

Photometric report for Flanged and Flangeless Trim



Light Output Ratio:	48.4%	
Luminaire Power:	8.818 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.55	fine grid method.

C Range: 0 - 360DEG

C Interval: For a lens beam angle of 15°

Test Speed: HIGH

Temperature: 25.3 °C

Operators: zoe

Test Date: 2024-8-15

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461

Humidity: 65.0%

Test Distance: 3.160m [K=1.0000]

Remarks: LAMP: BXRH-30G10T0-G-83 Ra: 90

LENS: PM-1084 15R

NO DRIVER: 500mA

30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

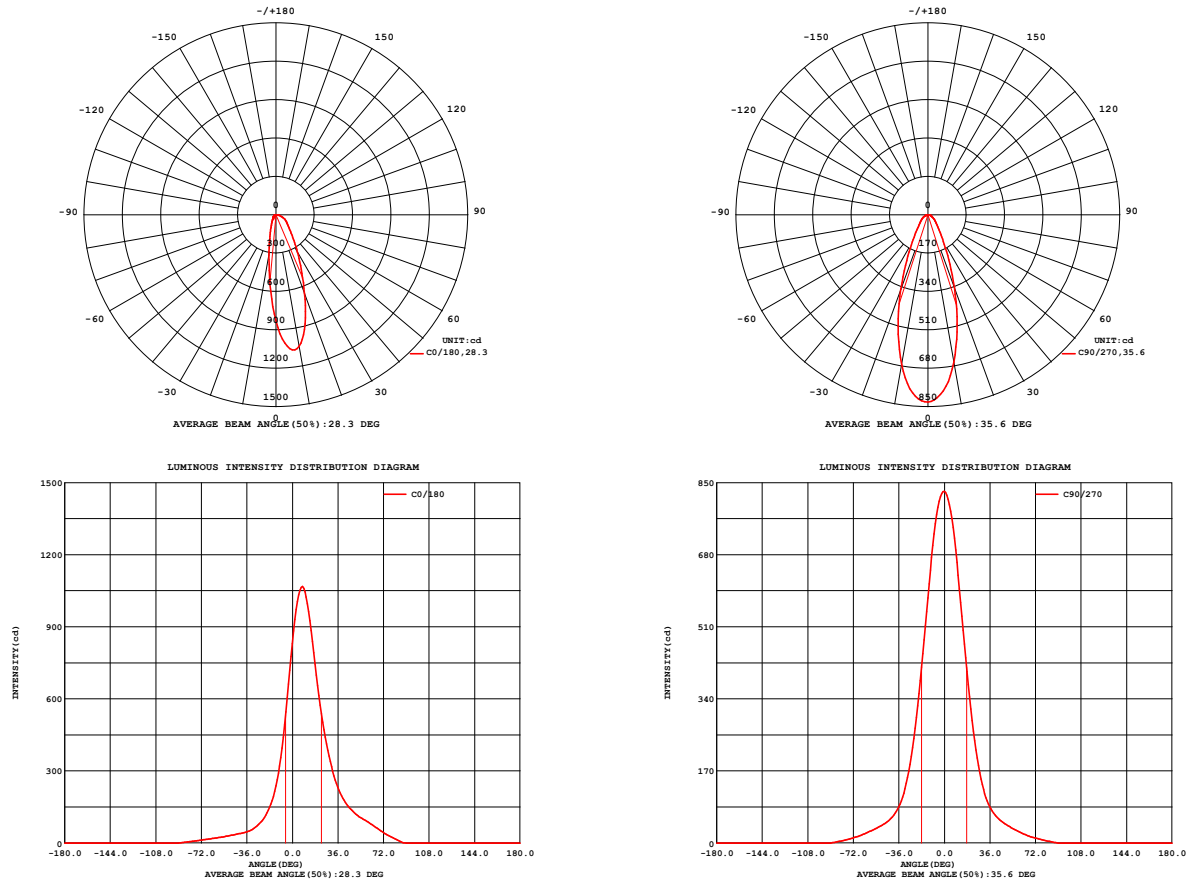


Fig. C0/C180

Fig. C90/C270

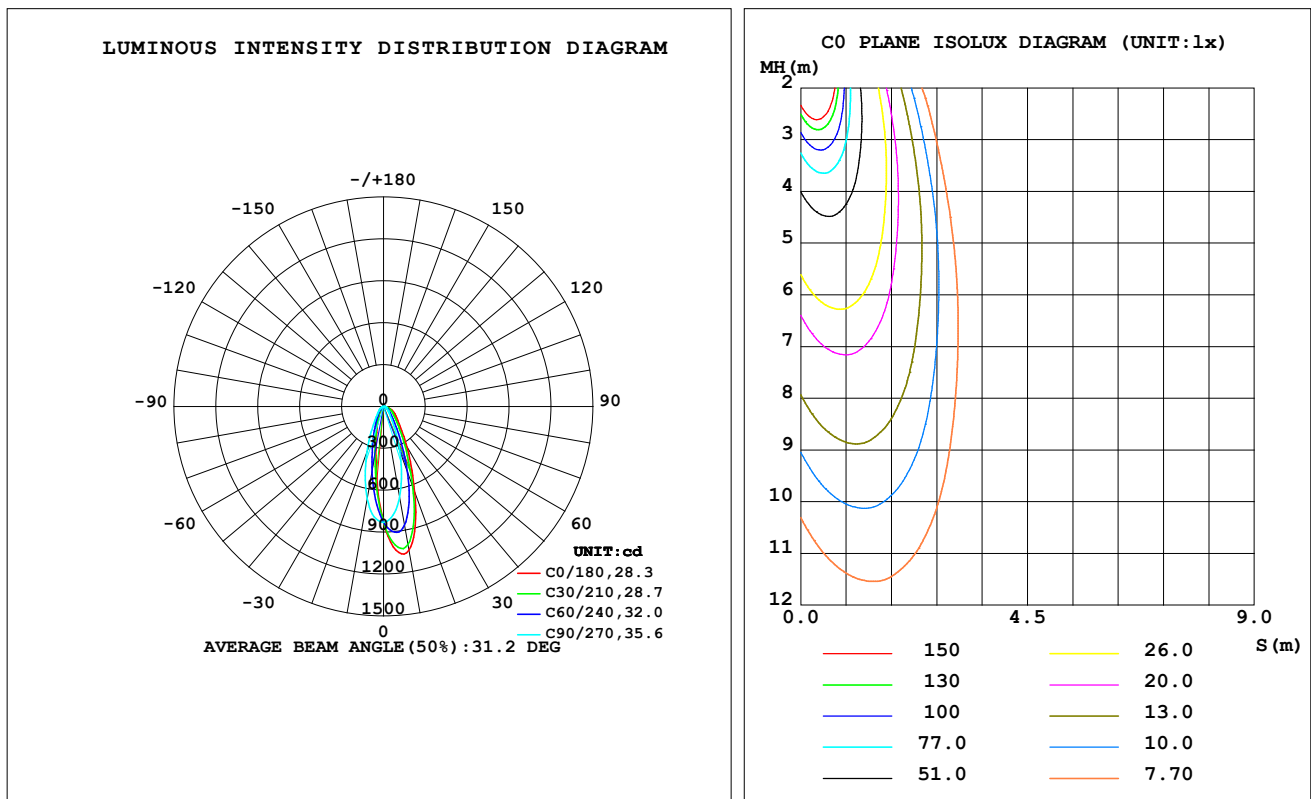
C Range: 0 - 360DEG
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LENS: PM-1084 15R
NO DRIVER: 500mA
30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:17.636V I:0.5000A P:8.8180W PF:1.0000 Freq:49.99Hz Lamp Flux:1124.6x1 lm		
NAME: CTL-M-1.5-30K-15-RD-WW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2408151122
MFR.: MERCURY LIGHTING	SUR.: 0.001256m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 61.76 lm/W
MODEL	Brideglux	I _{max} (cd)	1067	S/MH (C0/180)	0.26	
NOMINAL POWER (W)	9	LOR (%)	48.4	S/MH (C90/270)	0.59	
RATED VOLTAGE (V)	18	TOTAL FLUX (lm)	544.58	η UP, DN (C0-180)	0.0, 27.1	
NOMINAL FLUX (lm)	1124.6	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 21.3	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE (V)	18	η down (%)	48.4	CIBSE SHR MAX	0.55	



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Temperature: 25.3 °C

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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1045	933.6	662.0	412.0	320.9	417.4	673.4	933.7	0- 10	71.54	71.54	13.1,6.36
20	655.2	558.9	344.4	167.4	126.0	172.2	352.3	569.4	10- 20	143.0	214.6	39.4,19.1
30	338.7	248.0	138.0	77.57	61.50	79.39	140.4	251.3	20- 30	114.4	328.9	60.4,29.2
40	186.4	123.8	66.71	46.33	41.08	47.13	65.32	116.7	30- 40	73.74	402.7	73.9,35.8
50	120.6	76.63	41.27	32.47	30.12	32.98	40.46	68.86	40- 50	52.28	455.0	83.5,40.5
60	86.97	52.74	25.10	21.72	21.15	22.16	25.78	47.13	50- 60	40.60	495.6	91,44.1
70	50.34	30.77	13.30	13.43	13.45	13.61	13.79	26.66	60- 70	28.88	524.4	96.3,46.6
80	20.33	12.62	5.709	6.131	6.137	6.100	5.811	10.92	70- 80	15.91	540.3	99.2,48
90	0	0	0	0	0	0	0	0	80- 90	4.237	544.6	100,48.4
100	0	0	0	0	0	0	0	0	90-100	0	544.6	100,48.4
110	0	0	0	0	0	0	0	0	100-110	0	544.6	100,48.4
120	0	0	0	0	0	0	0	0	110-120	0	544.6	100,48.4
130	0	0	0	0	0	0	0	0	120-130	0	544.6	100,48.4
140	0	0	0	0	0	0	0	0	130-140	0	544.6	100,48.4
150	0	0	0	0	0	0	0	0	140-150	0	544.6	100,48.4
160	0	0	0	0	0	0	0	0	150-160	0	544.6	100,48.4
170	0	0	0	0	0	0	0	0	160-170	0	544.6	100,48.4
180	0	0	0	0	0	0	0	0	170-180	0	544.6	100,48.4
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG

C Interval: For a lens beam angle of 15°

Test Speed: HIGH

Temperature:25.3℃

Operators:zoe

Test Date:2024-8-15

 γ Range: 0 - 180DEG

 γ Interval: 1.0DEG

Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461

Humidity:65.0%

Test Distance:3.160m [K=1.0000]

Remarks: LAMP:BXRH-30G10T0-G-83 Ra:90

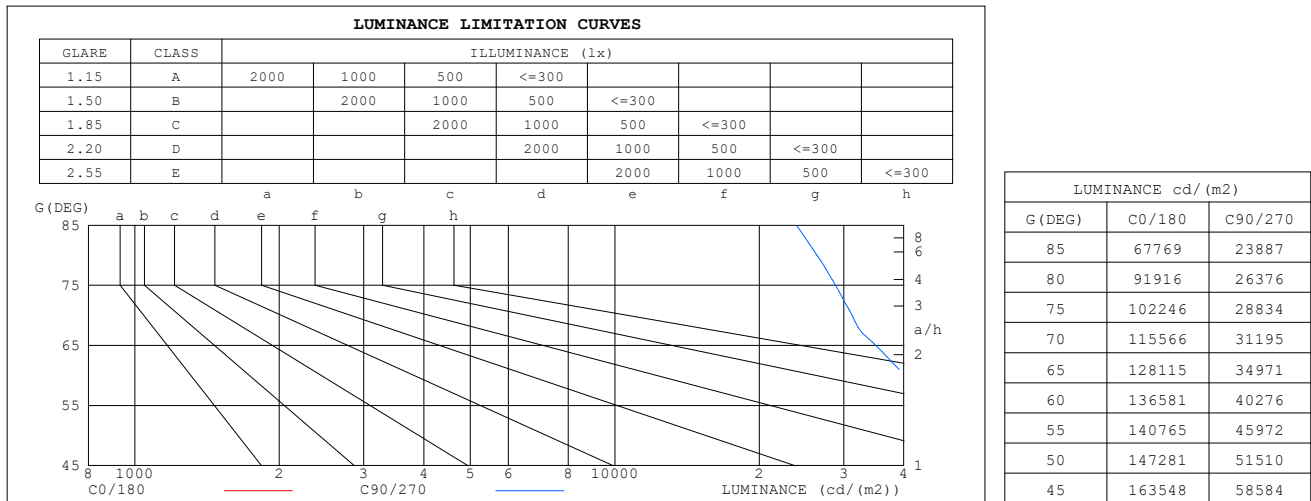
LENS:PM-1084 15R

NO DRIVER:500mA

30minutes warm-up

LUMINANCE LIMITATION CURVES

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SPEC.: 3000K	DIM.:	SERIAL No.: 2408151122
MFR.: MERCURY LIGHTING	SUR.: 0.001256m2	Shielding Angle:



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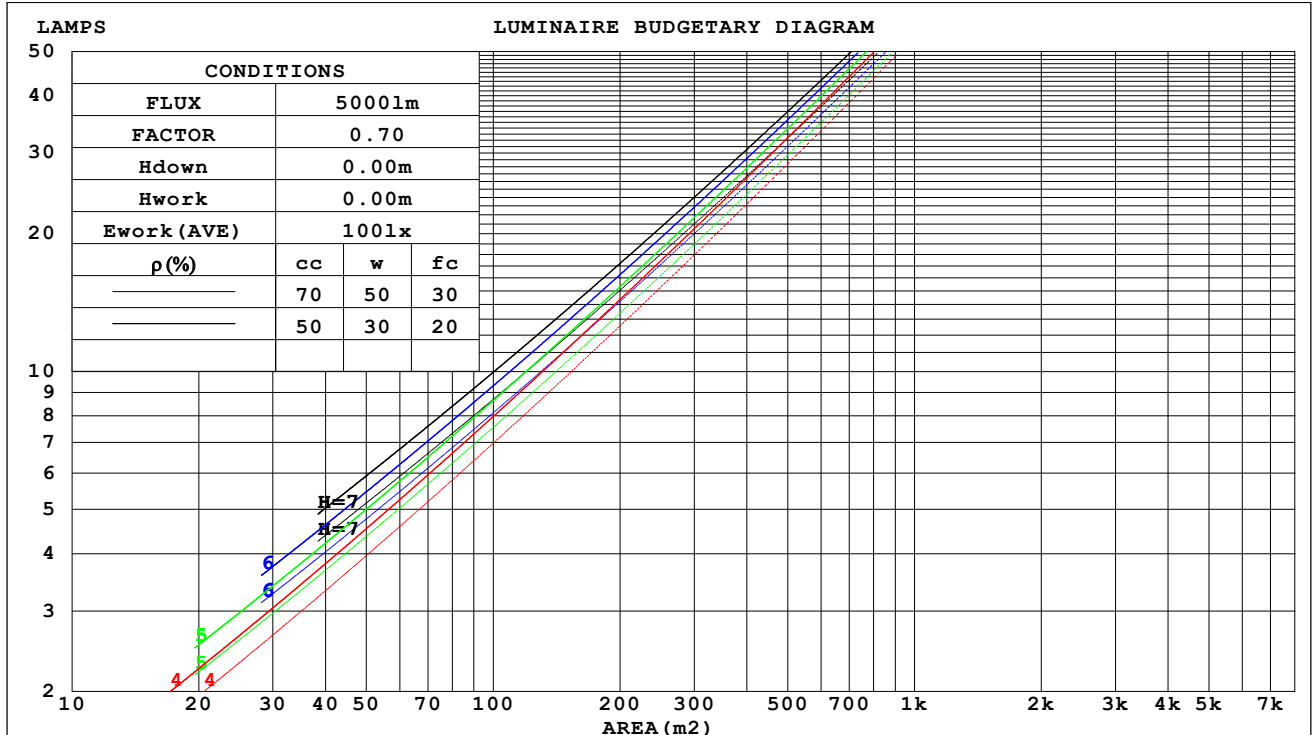
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30minutes warm-up

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2408151122
MFR.: MERCURY LIGHTING	SUR.: 0.001256m2	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



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30minutes warm-up

WEC AND CCEC

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NAME: CTL-M-1.5-30K-15-RD-WW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2408151122
MFR.: MERCURY LIGHTING	SUR.: 0.001256m2	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.107	.061	.019	.104	.059	.019	.098	.056	.018	.092	.053	.017	.087	.050	.016	
2.0	.101	.056	.017	.099	.054	.017	.093	.052	.016	.088	.050	.016	.084	.047	.015	
3.0	.095	.050	.015	.092	.049	.015	.088	.048	.014	.083	.046	.014	.080	.044	.014	
4.0	.088	.046	.014	.086	.045	.013	.082	.044	.013	.079	.042	.013	.075	.041	.012	
5.0	.083	.042	.012	.081	.042	.012	.077	.040	.012	.074	.039	.012	.071	.038	.011	
6.0	.078	.039	.011	.076	.038	.011	.073	.037	.011	.070	.036	.011	.067	.035	.011	
7.0	.073	.036	.010	.072	.036	.010	.069	.035	.010	.066	.034	.010	.064	.033	.010	
8.0	.069	.034	.009	.068	.033	.009	.065	.033	.009	.063	.032	.009	.061	.031	.009	
9.0	.065	.032	.009	.064	.031	.009	.062	.031	.009	.060	.030	.009	.058	.029	.009	
10.0	.062	.030	.008	.061	.029	.008	.059	.029	.008	.057	.028	.008	.055	.028	.008	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.092	.092	.092	.079	.079	.079	.054	.054	.054	.031	.031	.031	.010	.010	.010	
1.0	.084	.076	.068	.072	.065	.059	.049	.045	.041	.028	.026	.024	.009	.008	.008	
2.0	.078	.064	.052	.067	.055	.045	.046	.038	.032	.026	.022	.018	.008	.007	.006	
3.0	.073	.055	.041	.062	.048	.036	.043	.033	.025	.025	.019	.015	.008	.006	.005	
4.0	.068	.048	.033	.058	.042	.029	.040	.029	.020	.023	.017	.012	.007	.006	.004	
5.0	.064	.043	.027	.055	.037	.024	.038	.026	.017	.022	.015	.010	.007	.005	.003	
6.0	.060	.038	.023	.052	.033	.020	.036	.023	.014	.021	.014	.008	.007	.004	.003	
7.0	.057	.035	.019	.049	.030	.017	.034	.021	.012	.020	.012	.007	.006	.004	.002	
8.0	.054	.032	.017	.046	.028	.014	.032	.019	.010	.019	.011	.006	.006	.004	.002	
9.0	.051	.029	.014	.044	.025	.013	.030	.018	.009	.018	.011	.005	.006	.003	.002	
10.0	.049	.027	.013	.042	.023	.011	.029	.017	.008	.017	.010	.005	.005	.003	.002	

C Range: 0 - 360DEG

C Interval: For a lens beam angle of 15°

Test Speed: HIGH

Temperature:25.3℃

Operators:zoe

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γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461

Humidity:65.0%

Test Distance:3.160m [K=1.0000]

Remarks: LAMP:BXRH-30G10T0-G-83 Ra:90

LENS:PM-1084 15R

NO DRIVER:500mA

30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:17.636V I:0.5000A P:8.8180W PF:1.0000 Freq:49.99Hz Lamp Flux:1124.6x1 lm										
NAME: CTL-M-1.5-30K-15-RD-WW					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2408151122		
MFR.: MERCURY LIGHTING					SUR.: 0.001256m2			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	29.3	30.4	29.5	30.6	30.8	24.2	25.3	24.5	25.5	25.7
3H	30.7	31.8	31.0	32.0	32.2	24.9	26.0	25.2	26.2	26.4
4H	31.3	32.3	31.6	32.5	32.7	25.2	26.2	25.5	26.4	26.6
6H	31.7	32.6	32.0	32.8	33.1	25.4	26.3	25.7	26.6	26.8
8H	31.8	32.7	32.1	33.0	33.2	25.5	26.3	25.8	26.6	26.9
12H	31.9	32.7	32.2	33.0	33.3	25.5	26.3	25.8	26.6	26.9
4H 2H	29.5	30.5	29.8	30.7	30.9	25.5	26.5	25.8	26.7	27.0
3H	31.1	32.0	31.5	32.3	32.6	26.3	27.2	26.7	27.5	27.7
4H	31.8	32.6	32.2	32.9	33.2	26.7	27.4	27.0	27.7	28.1
6H	32.4	33.1	32.8	33.4	33.8	26.9	27.6	27.3	27.9	28.3
8H	32.6	33.2	33.0	33.6	33.9	27.0	27.6	27.4	28.0	28.4
12H	32.7	33.3	33.1	33.6	34.0	27.0	27.6	27.4	28.0	28.4
8H 4H	31.9	32.5	32.3	32.9	33.3	27.3	28.0	27.7	28.3	28.7
6H	32.6	33.1	33.0	33.5	33.9	27.7	28.2	28.1	28.6	29.0
8H	32.8	33.3	33.3	33.7	34.2	27.8	28.3	28.2	28.7	29.1
12H	33.0	33.4	33.5	33.9	34.3	27.9	28.3	28.3	28.7	29.2
12H 4H	31.9	32.4	32.3	32.8	33.2	27.4	28.0	27.9	28.4	28.8
6H	32.6	33.0	33.0	33.4	33.9	27.8	28.3	28.3	28.7	29.2
8H	32.9	33.3	33.3	33.7	34.2	28.0	28.4	28.5	28.8	29.3
Variations with the observer position at spacings(CIE Pub.117) :										
S = 1.0H	+ 0.2 / - 0.2					+ 0.4 / - 0.5				
1.5H	+ 0.3 / - 0.3					+ 0.3 / - 0.4				
2.0H	+ 0.4 / - 0.8					+ 0.6 / - 0.8				

CIE Pub.117, 1125 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.4)
 Area: 0.001256 m2

C Range: 0 - 360DEG

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Temperature:25.3℃

Operators:zoe

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γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461

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Test Distance:3.160m [K=1.0000]

Remarks: LAMP:BXRH-30G10T0-G-83 Ra:90

LENS:PM-1084 15R

NO DRIVER:500mA

30minutes warm-up

UTILIZATION FACTORS TABLE

Test:U:17.636V I:0.5000A P:8.8180W PF:1.0000 Freq:49.99Hz Lamp Flux:1124.6x1 lm		
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SPEC.: 3000K	DIM.:	SERIAL No.: 2408151122
MFR.: MERCURY LIGHTING	SUR.: 0.001256m2	Shielding Angle:

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	37	32	30	36	32	30	36	32	30	28
0.80	41	37	34	40	37	34	40	36	34	32
1.00	44	40	37	43	40	37	42	40	37	34
1.25	46	43	40	46	42	40	44	42	40	37
1.50	48	45	42	47	44	42	46	43	41	39
2.00	50	47	45	49	47	45	48	46	44	41
2.50	51	49	47	50	48	46	49	47	45	42
3.00	52	50	48	51	49	48	50	48	47	43
4.00	54	52	50	53	51	50	51	49	48	44
5.00	54	53	52	53	52	51	51	50	49	45
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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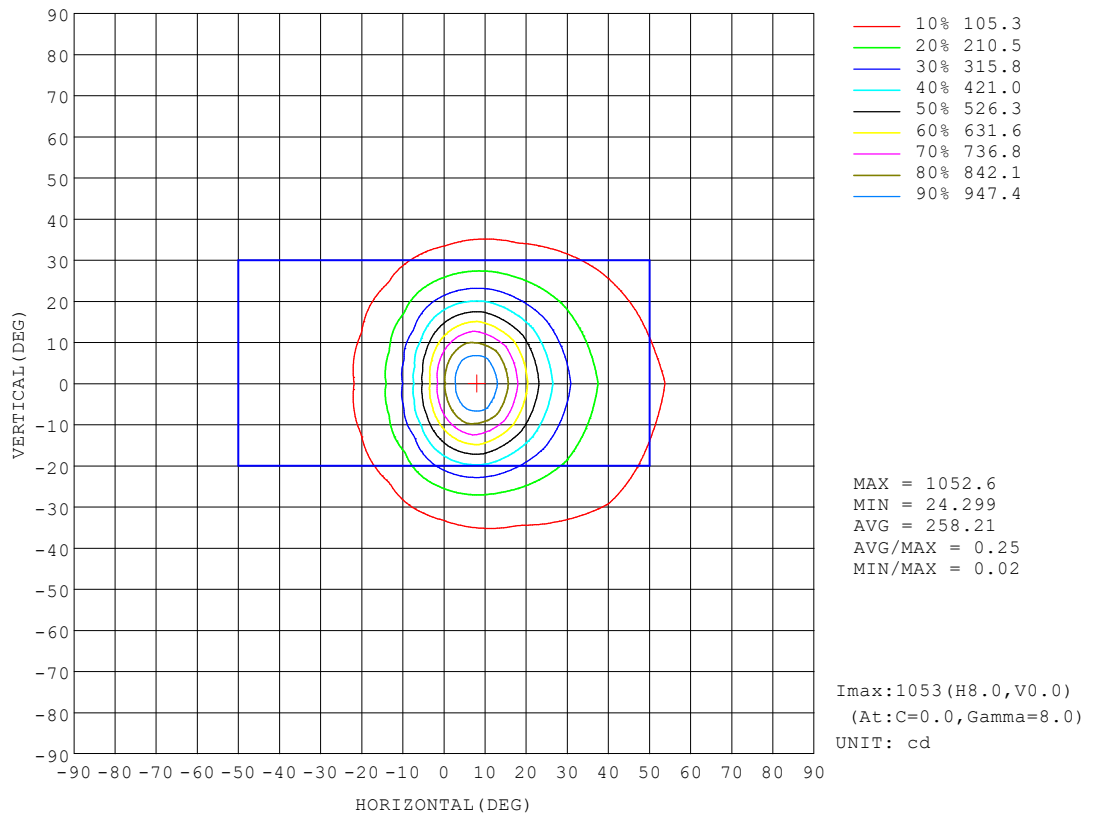
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ISOCANDELA DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2408151122
MFR.: MERCURY LIGHTING	SUR.: 0.001256m2	Shielding Angle:



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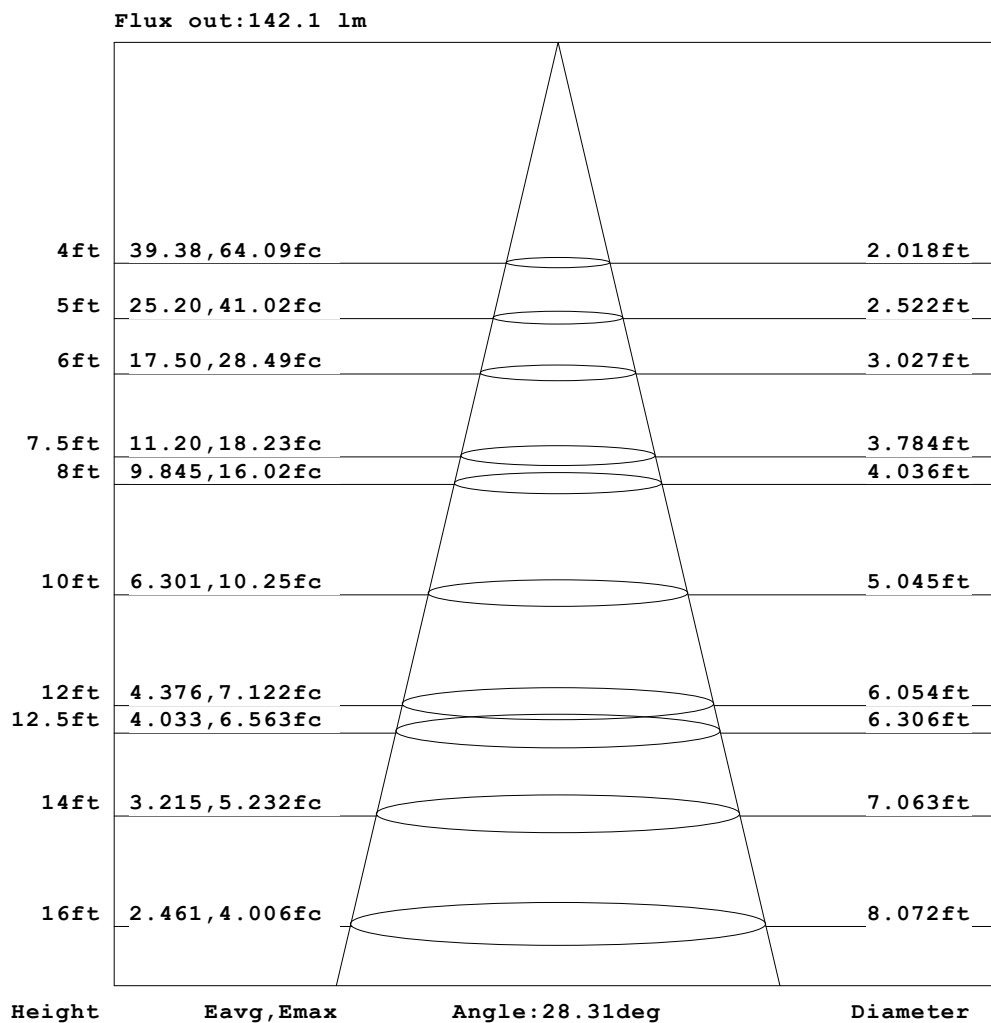
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AAI Figure

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SPEC.: 3000K	DIM.:	SERIAL No.: 2408151122
MFR.: MERCURY LIGHTING	SUR.: 0.001256m2	Shielding Angle:



Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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Temperature: 25.3°C

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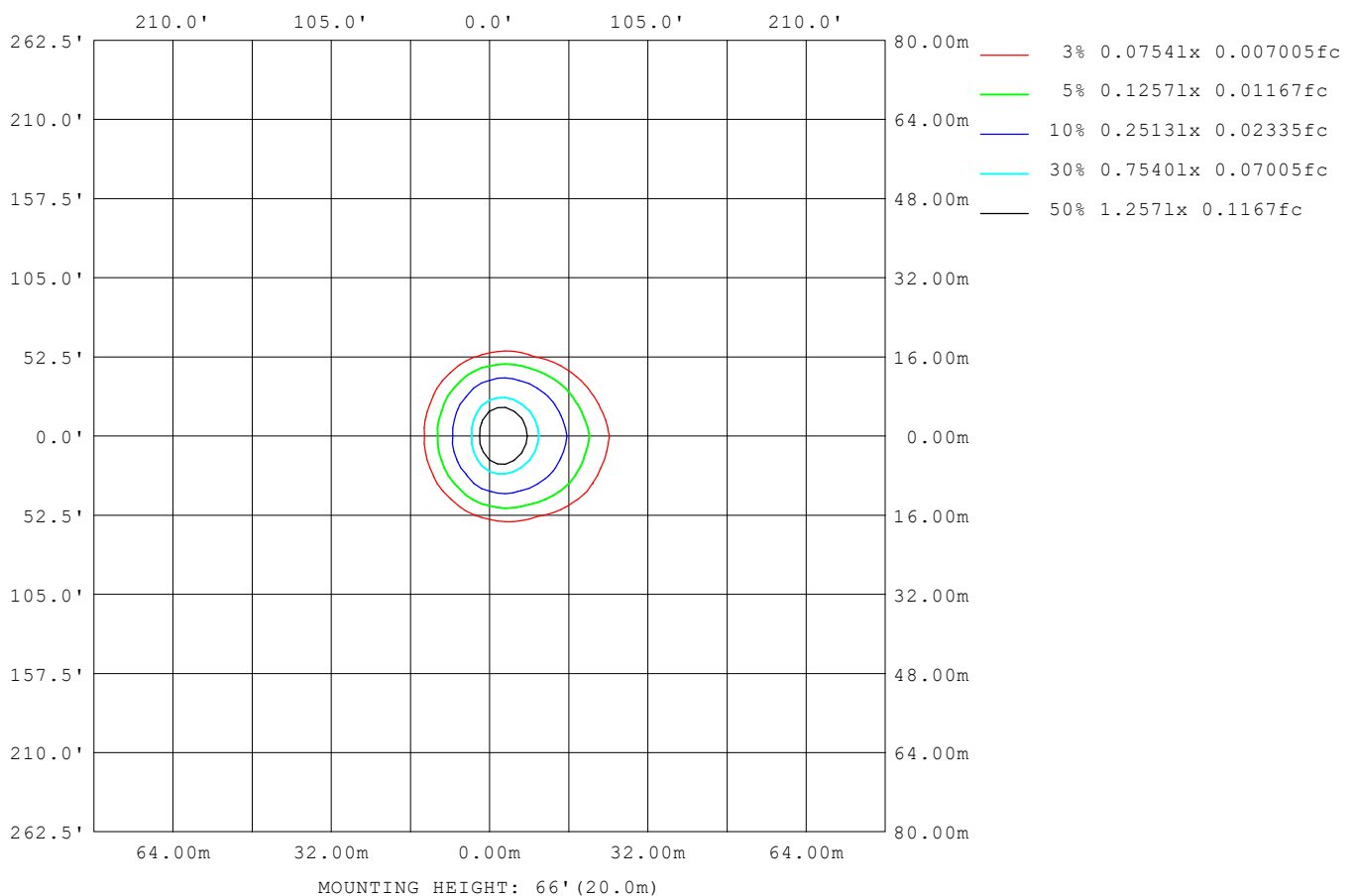
LENS: PM-1084 15R

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30minutes warm-up

ISOLUX DIAGRAM

Test: U:17.636V I:0.5000A P:8.8180W PF:1.0000 Freq:49.99Hz Lamp Flux: 1124.6x1 lm		
NAME: CTL-M-1.5-30K-15-RD-WW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2408151122
MFR.: MERCURY LIGHTING	SUR.: 0.001256m2	Shielding Angle:


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C Interval: For a lens beam angle of 15°

Test Speed: HIGH

Temperature:25.3℃

Operators:zoe

Test Date:2024-8-15

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461

Humidity:65.0%

Test Distance:3.160m [K=1.0000]

Remarks: LAMP:BXRH-30G10T0-G-83 Ra:90

LENS:PM-1084 15R

NO DRIVER:500mA

30minutes warm-up

LED Avg.L Report

Test:U:17.636V I:0.5000A P:8.8180W PF:1.0000 Freq:49.99Hz Lamp Flux:1124.6x1 lm		
NAME: CTL-M-1.5-30K-15-RD-WW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2408151122
MFR.: MERCURY LIGHTING	SUR.: 0.001256m2	Shielding Angle:

AvgL	cd/m2
L_0~180 (65) av	81192
L_0~180 (75) av	66812
L_0~180 (85) av	46621
L_90~270 (65) av	35385
L_90~270 (75) av	29043
L_90~270 (85) av	23559
L_45 (65) av	52632
L_45 (75) av	44734
L_45 (85) av	32242

Standard: GB/T 29293-2012

C Range: 0 - 360DEG

C Interval: For a lens beam angle of 15°

Test Speed: HIGH

Temperature:25.3℃

Operators:zoe

Test Date:2024-8-15

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461

Humidity:65.0%

Test Distance:3.160m [K=1.0000]

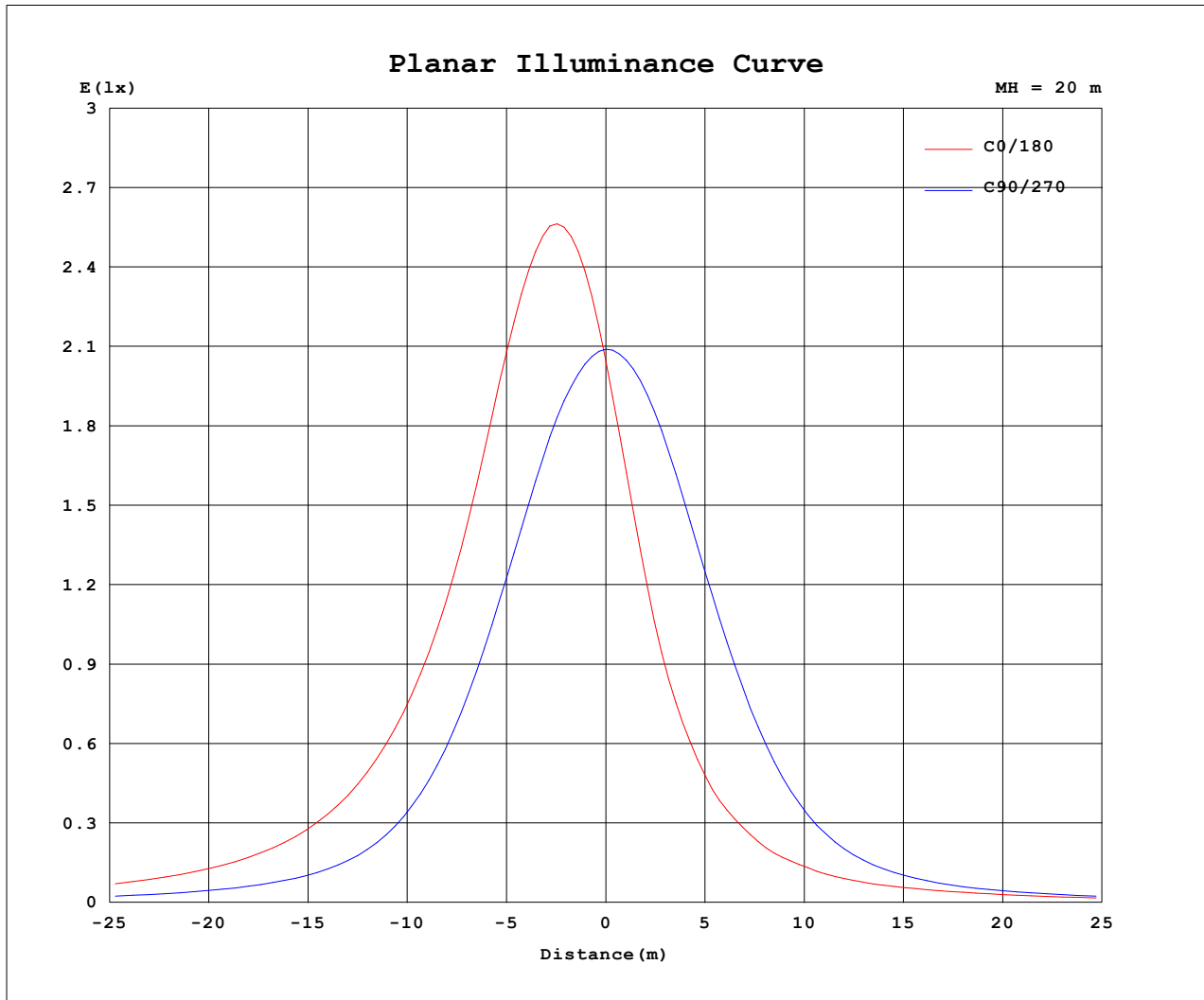
Remarks: LAMP:BXRH-30G10T0-G-83 Ra:90

LENS:PM-1084 15R

NO DRIVER:500mA

30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG

C Interval: For a lens beam angle of 15°

Test Speed: HIGH

Temperature: 25.3 °C

Operators: zoe

Test Date: 2024-8-15

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461

Humidity: 65.0%

Test Distance: 3.160m [K=1.0000]

Remarks: LAMP: BXRH-30G10T0-G-83 Ra: 90

LENS: PM-1084 15R

NO DRIVER: 500mA

30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:17.636V I:0.5000A P:8.8180W PF:1.0000 Freq:49.99Hz Lamp Flux:1124.6x1 lm		
NAME: CTL-M-1.5-30K-15-RD-WW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2408151122
MFR.: MERCURY LIGHTING	SUR.: 0.001256m2	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	830	830	830	830	830	830	830	830	830	830	830	830						
5	1033	997	903	782	661	577	546	579	670	792	910	994						
10	1045	1003	865	662	467	357	321	357	478	673	870	998						
15	884	843	710	502	304	217	193	220	312	512	717	842						
20	655	613	505	344	195	140	126	141	203	352	515	624						
25	471	422	325	219	126	93.2	85.5	93.4	131	224	336	429						
30	339	291	206	138	87.2	67.9	61.5	68.9	89.7	140	212	291						
35	247	208	135	91.7	64.2	51.5	48.3	52.1	65.8	92.0	135	200						
40	186	154	94.1	66.7	50.3	42.4	41.1	43.0	51.2	65.3	90.5	143						
45	147	121	69.9	51.6	41.2	36.2	35.3	36.7	41.9	50.2	65.2	108						
50	121	98.6	54.9	41.3	34.1	30.8	30.1	31.2	34.7	40.5	51.2	86.6						
55	103	82.8	44.6	32.9	28.1	25.5	25.2	25.9	28.7	32.9	42.2	72.1						
60	87.0	70.0	35.7	25.1	22.3	21.1	21.2	21.3	23.0	25.8	34.3	60.0						
65	69.0	56.1	27.1	18.4	17.4	17.2	17.2	17.3	17.9	19.1	26.2	47.0						
70	50.3	42.1	19.6	13.3	13.5	13.4	13.5	13.4	13.8	13.8	18.8	34.6						
75	33.7	29.1	13.1	9.30	9.71	9.70	9.74	9.67	9.83	9.58	12.5	23.7						
80	20.3	17.6	7.71	5.71	6.13	6.13	6.14	6.07	6.13	5.81	7.40	14.4						
85	7.52	6.26	2.95	2.59	2.76	2.72	2.68	2.65	2.72	2.56	2.97	5.49						
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						

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