

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P530207

Luminaire Tested: **GALN-SA5B-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-830-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13217 lumens
Efficiency: N/A
Efficacy: 64.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

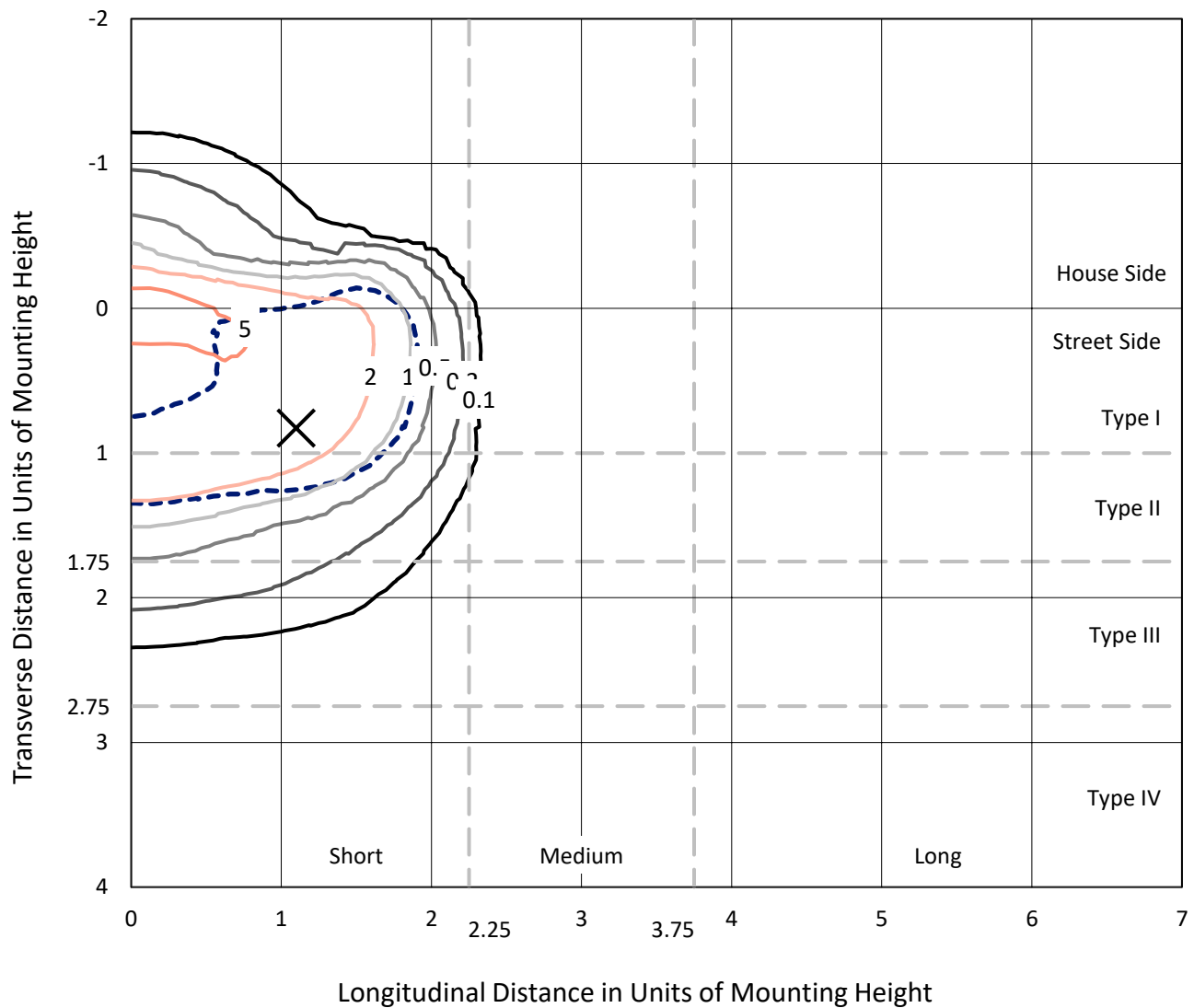


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

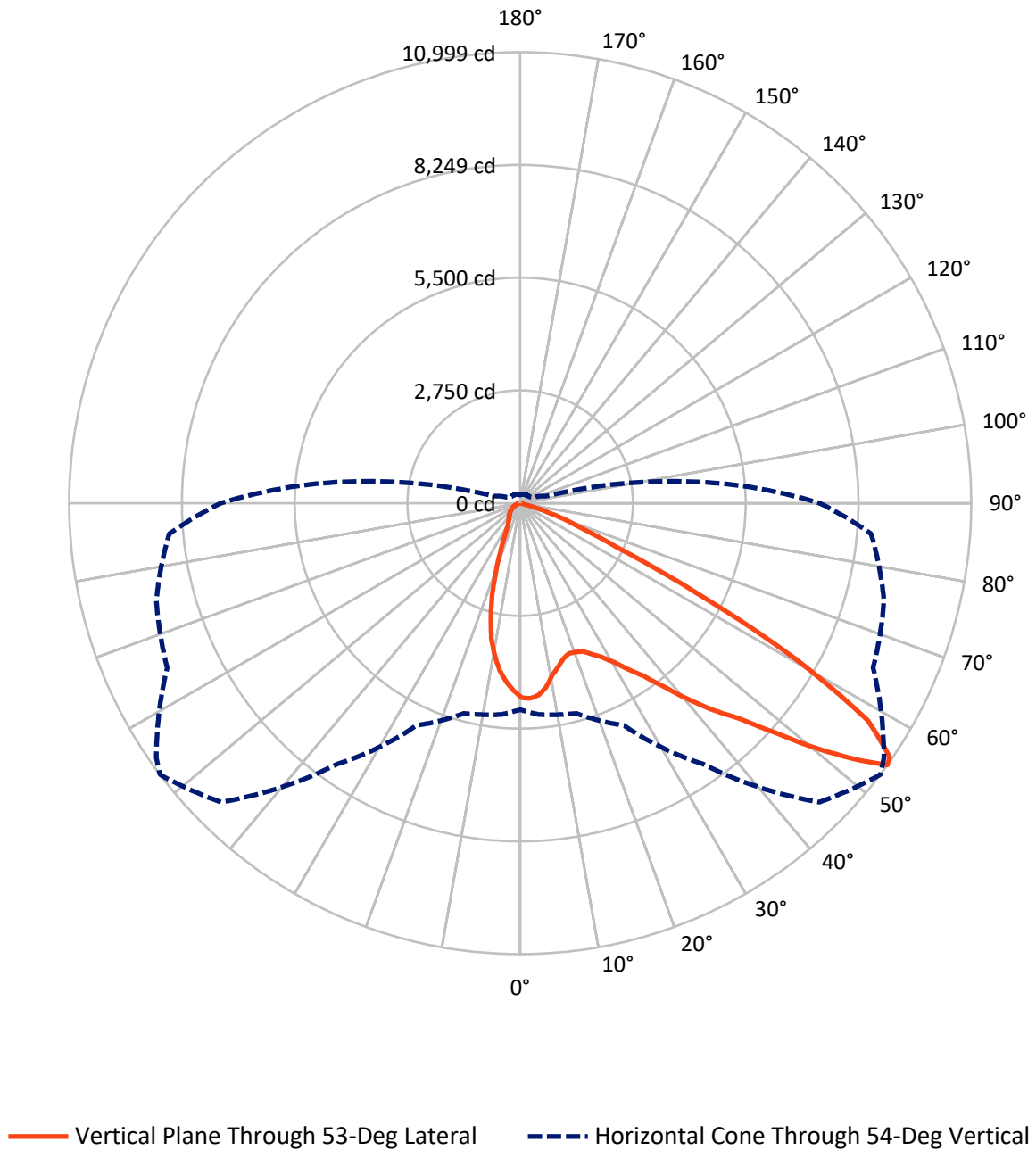


Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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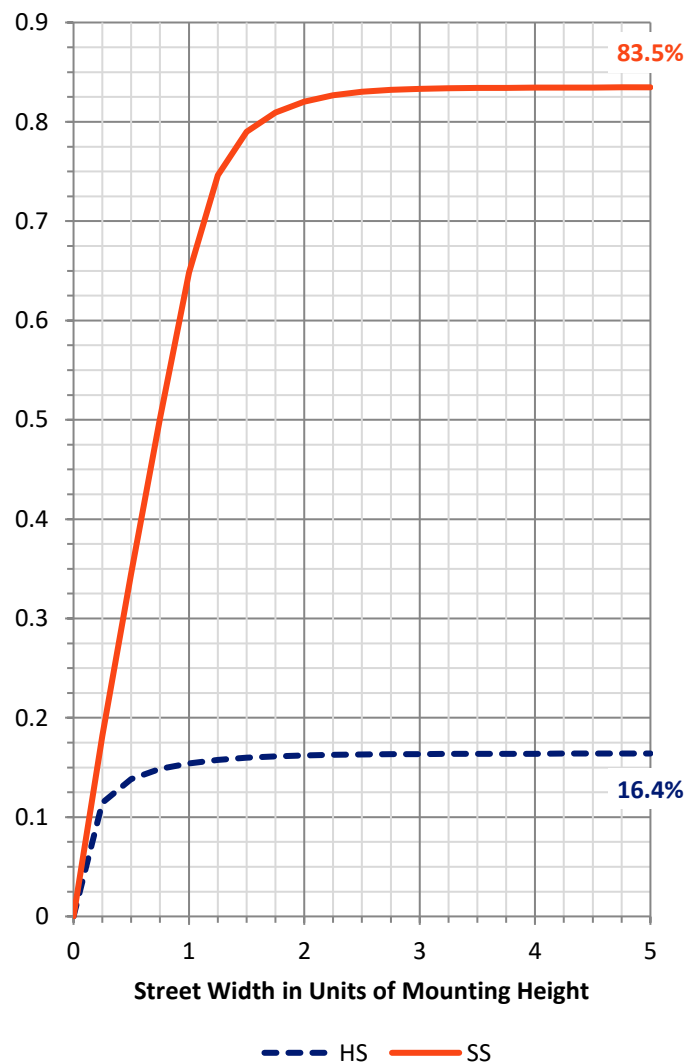
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2186.8	0.0	2186.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	11030.2	0.0	11030.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	13217.0	0.0	13217.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.3	3.1
10°-20°	933.8	7.1
20°-30°	1327.2	10.0
30°-40°	2048.2	15.5
40°-50°	3211.4	24.3
50°-60°	3730.4	28.2
60°-70°	1409.6	10.7
70°-80°	134.0	1.0
80°-90°	15.1	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	13217.0	100.0
0°-180°	13217.0	100.0

Coefficient of Utilization



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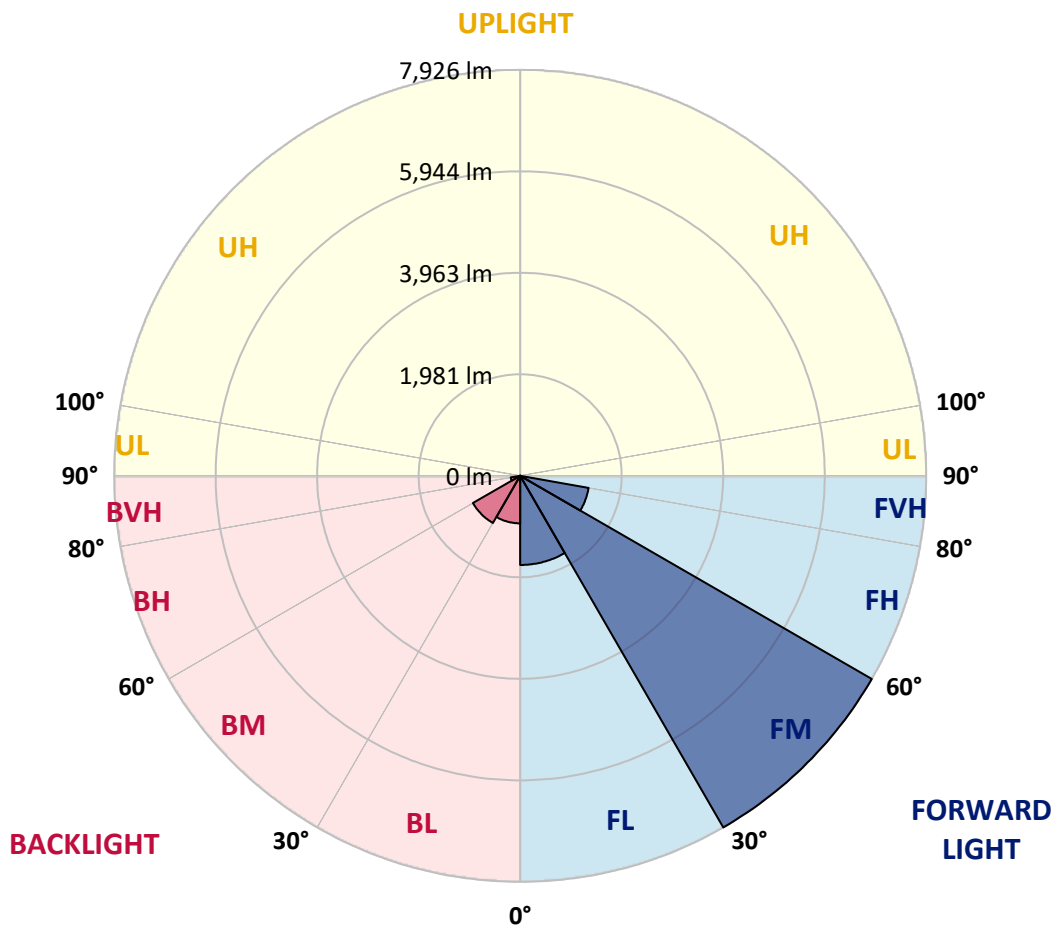
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1740.3	13.2			
FM	(30°-60°)	7925.8	60.0			
FH	(60°-80°)	1356.3	10.3			G1/1800
FVH	(80°-90°)	7.8	0.1			G0/10
BL	(0°-30°)	928.0	7.0	B2/1000		
BM	(30°-60°)	1064.2	8.1	B2/2500		
BH	(60°-80°)	187.4	1.4	B1/500		G1/500
BVH	(80°-90°)	7.3	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4747.3	4747.3	4747.3	4747.3	4747.3	4747.3	4747.3	4747.3	4747.3	4747.3	4747.3
2.5°	4722.7	4680.8	4722.7	4727.6	4757.2	4784.3	4767.0	4806.4	4784.3	4759.6	4752.2
5°	4341.0	4397.7	4400.1	4488.8	4469.1	4631.6	4703.0	4683.3	4804.0	4796.6	4779.3
7.5°	3998.8	3976.6	4006.2	4109.6	4240.1	4427.2	4530.6	4528.2	4700.5	4823.7	4811.3
10°	3681.1	3678.7	3740.2	3821.5	3932.3	4129.3	4272.1	4343.5	4611.9	4799.0	4826.1
12.5°	3466.9	3457.1	3523.6	3590.0	3764.9	3917.5	4099.7	4134.2	4442.0	4712.9	4757.2
15°	3326.6	3348.7	3353.7	3481.7	3592.5	3794.4	3937.2	4008.6	4363.2	4643.9	4813.8
17.5°	3302.0	3331.5	3334.0	3439.8	3558.0	3727.9	3853.5	3949.5	4296.7	4678.4	4816.3
20°	3351.2	3334.0	3348.7	3415.2	3530.9	3693.5	3875.7	3907.7	4274.6	4695.6	4843.4
22.5°	3491.5	3486.6	3449.7	3503.9	3585.1	3755.0	3927.4	3976.6	4338.6	4784.3	4865.5
25°	3646.7	3673.8	3639.3	3631.9	3688.5	3856.0	4085.0	4149.0	4552.8	4944.3	4934.5
27.5°	3937.2	3910.1	3910.1	3875.7	3860.9	3942.1	4254.9	4360.7	4791.6	5151.1	5013.3
30°	4215.5	4245.0	4222.9	4235.2	4136.7	4129.3	4496.2	4626.7	5215.2	5466.3	5180.7
32.5°	4656.2	4616.8	4653.8	4621.7	4491.2	4358.3	4823.7	4959.1	5727.3	5828.3	5431.8
35°	5023.1	5005.9	5163.5	5158.5	4946.8	4816.3	5170.8	5372.7	6084.4	6261.6	5727.3
37.5°	5545.1	5513.1	5692.8	5779.0	5589.4	5394.9	5668.2	5902.1	6416.8	6608.8	6030.2
40°	6081.9	6163.1	6404.5	6547.3	6345.4	6086.8	6276.4	6347.8	6638.4	6835.4	6237.0
42.5°	6761.5	6879.7	7125.9	7249.0	7231.8	6951.1	6894.5	6892.0	6798.4	6771.3	6389.7
45°	7414.0	7369.7	7748.9	8017.3	8233.9	8152.7	7490.3	7416.5	7052.0	6867.4	6429.1
47.5°	7699.6	7684.9	7943.4	8421.1	9159.8	9260.7	8357.1	8071.4	7480.5	7271.2	6643.3
50°	7330.3	7406.6	7662.7	8192.1	9324.7	10095.4	9420.8	9036.7	7980.3	7763.6	7150.5
52.5°	6123.8	6175.5	6419.2	7091.4	8763.3	10587.9	10440.2	10218.6	8898.8	8539.3	8034.5
54°	5035.4	5173.3	5306.3	5980.9	7763.6	10314.6	10999.1	10829.2	9497.1	9184.4	8591.0
55°	4385.4	4466.6	4562.7	5234.9	7071.7	9851.7	10935.1	10949.9	9898.5	9386.3	8965.3
57.5°	3203.5	3260.1	3161.6	3459.5	4855.7	8000.0	10001.9	10400.8	10440.2	9689.2	9194.2
60°	2447.5	2472.2	2361.4	2408.1	3018.8	5490.9	7736.6	8216.7	9418.3	8467.9	7788.3
62.5°	1898.4	1903.4	1900.9	1982.2	2080.6	3230.5	4838.4	5264.4	6493.1	6012.9	5289.0
65°	1398.6	1376.4	1415.8	1662.1	1775.3	2031.4	2548.5	2858.7	3528.5	2979.4	2129.9
67.5°	906.1	913.5	952.9	1236.1	1521.7	1558.6	1568.5	1543.9	1546.3	852.0	534.3
70°	544.2	556.5	544.2	699.3	1088.3	1117.9	1021.9	997.2	778.1	201.9	199.4
72.5°	322.6	305.3	273.3	300.4	453.1	541.7	487.5	485.1	305.3	118.2	118.2
75°	135.4	123.1	101.0	91.1	120.7	115.7	115.7	103.4	81.3	78.8	73.9
77.5°	27.1	27.1	19.7	22.2	29.5	34.5	41.9	41.9	49.2	49.2	46.8
80°	0.0	2.5	7.4	14.8	22.2	32.0	36.9	36.9	41.9	41.9	34.5
82.5°	0.0	2.5	7.4	14.8	19.7	29.5	36.9	36.9	41.9	44.3	36.9
85°	0.0	2.5	7.4	12.3	19.7	24.6	24.6	22.2	17.2	14.8	9.8
87.5°	0.0	0.0	2.5	4.9	2.5	4.9	4.9	4.9	4.9	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4747.3	4747.3	4747.3	4747.3	4747.3	4747.3	4747.3	4747.3	4747.3	4747.3	4747.3
2.5°	4769.5	4767.0	4707.9	4611.9	4589.7	4508.5	4498.6	4449.4	4476.5	4385.4	4375.5
5°	4730.1	4700.5	4629.1	4567.6	4387.8	4259.8	4158.8	4035.7	3964.3	3976.6	3929.8
7.5°	4786.7	4710.4	4584.8	4370.6	4151.4	3927.4	3806.7	3555.6	3464.5	3329.0	3309.3
10°	4727.6	4671.0	4476.5	4121.9	3819.0	3496.5	3213.3	2935.1	2723.3	2632.2	2612.5
12.5°	4722.7	4624.2	4299.2	3905.2	3466.9	3004.0	2592.8	2245.6	2036.3	1918.1	1891.1
15°	4646.4	4528.2	4099.7	3570.3	2964.6	2388.4	1940.3	1605.4	1445.4	1376.4	1396.1
17.5°	4653.8	4476.5	3900.3	3215.8	2469.7	1753.2	1324.7	1152.4	1110.5	1127.7	1127.7
20°	4646.4	4360.7	3659.0	2807.0	1891.1	1216.4	972.6	911.1	938.1	992.3	980.0
22.5°	4607.0	4306.6	3437.4	2376.1	1391.2	901.2	780.6	783.0	824.9	891.4	906.1
25°	4636.5	4185.9	3156.7	1940.3	1014.5	719.0	677.1	694.4	738.7	787.9	797.8
27.5°	4614.4	4099.7	2863.7	1506.9	741.2	618.0	615.6	635.3	655.0	691.9	691.9
30°	4639.0	4020.9	2575.6	1120.3	610.7	566.3	556.5	571.3	591.0	598.3	595.9
32.5°	4730.1	3961.8	2243.2	837.2	539.2	517.1	517.1	517.1	514.6	524.5	526.9
35°	4929.5	3971.7	1950.1	647.6	492.5	475.2	467.8	458.0	453.1	458.0	460.5
37.5°	5146.2	3966.8	1647.3	551.6	458.0	443.2	426.0	411.2	408.7	413.7	406.3
40°	5242.2	4013.6	1366.6	494.9	426.0	408.7	381.7	369.3	371.8	376.7	371.8
42.5°	5372.7	4028.3	1184.4	450.6	396.4	369.3	352.1	337.3	334.9	342.3	339.8
45°	5370.3	3944.6	992.3	426.0	369.3	339.8	317.6	305.3	305.3	310.3	312.7
47.5°	5527.9	3932.3	852.0	403.8	349.6	320.1	293.0	283.2	280.7	280.7	275.8
50°	5894.8	4104.7	743.6	379.2	325.0	297.9	275.8	263.5	253.6	248.7	246.2
52.5°	6611.3	4641.4	659.9	349.6	297.9	275.8	256.1	246.2	233.9	221.6	219.1
54°	7305.7	5195.5	655.0	325.0	275.8	261.0	243.8	238.8	224.1	206.8	201.9
55°	7618.4	5518.0	672.2	305.3	261.0	251.2	236.4	231.5	216.7	197.0	194.5
57.5°	7876.9	5643.6	662.4	253.6	236.4	233.9	221.6	214.2	197.0	169.9	165.0
60°	6340.4	4267.2	475.2	224.1	216.7	211.8	201.9	197.0	174.8	145.3	142.8
62.5°	4006.2	2454.9	302.9	197.0	189.6	182.2	169.9	165.0	145.3	115.7	108.3
65°	1706.4	1016.9	204.4	174.8	162.5	150.2	140.4	133.0	115.7	86.2	83.7
67.5°	443.2	362.0	169.9	152.7	135.4	118.2	110.8	98.5	78.8	59.1	56.6
70°	199.4	182.2	142.8	128.0	108.3	91.1	81.3	68.9	51.7	39.4	36.9
72.5°	118.2	115.7	108.3	96.0	81.3	68.9	59.1	46.8	34.5	22.2	22.2
75°	73.9	71.4	73.9	66.5	56.6	51.7	44.3	32.0	19.7	9.8	9.8
77.5°	44.3	44.3	44.3	41.9	39.4	39.4	32.0	19.7	9.8	2.5	2.5
80°	34.5	34.5	36.9	34.5	34.5	34.5	27.1	14.8	4.9	0.0	0.0
82.5°	34.5	36.9	41.9	39.4	34.5	29.5	24.6	14.8	4.9	0.0	0.0
85°	9.8	7.4	12.3	17.2	24.6	22.2	17.2	12.3	4.9	0.0	0.0
87.5°	4.9	4.9	4.9	4.9	2.5	2.5	2.5	2.5	2.5	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)