

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: P194544

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-7060-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-SL4-7060-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23345 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 249
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: 25 FT

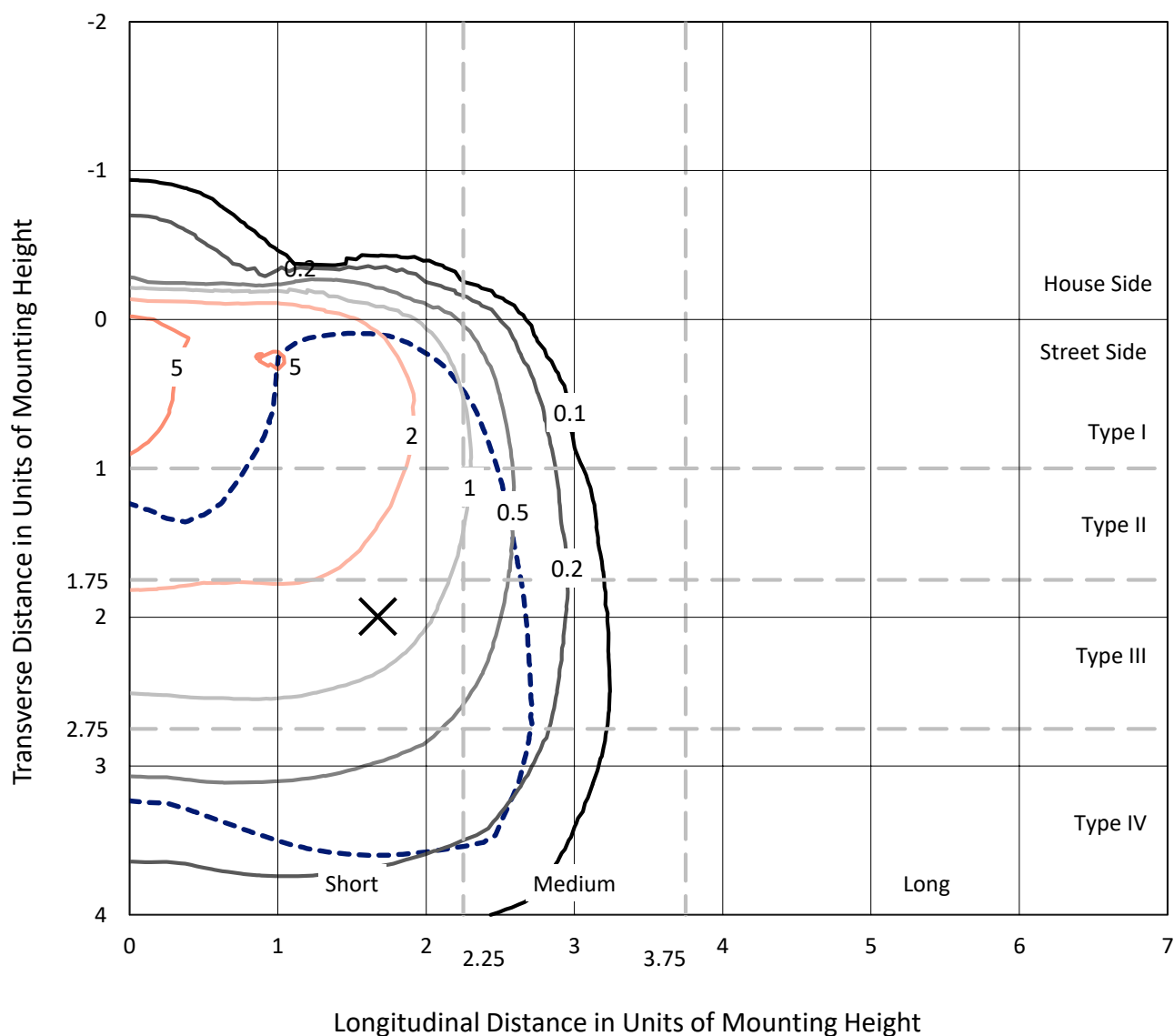


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

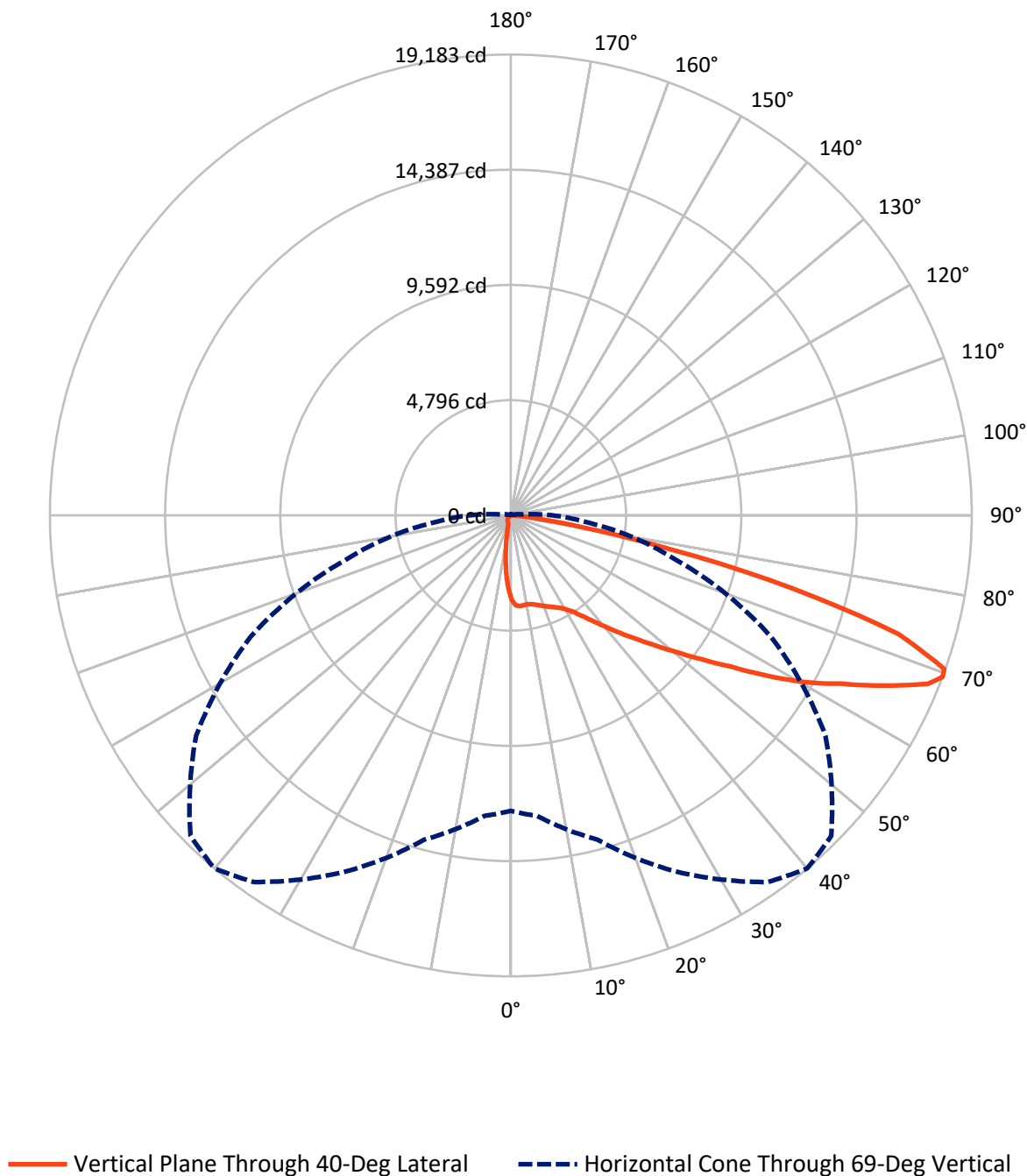


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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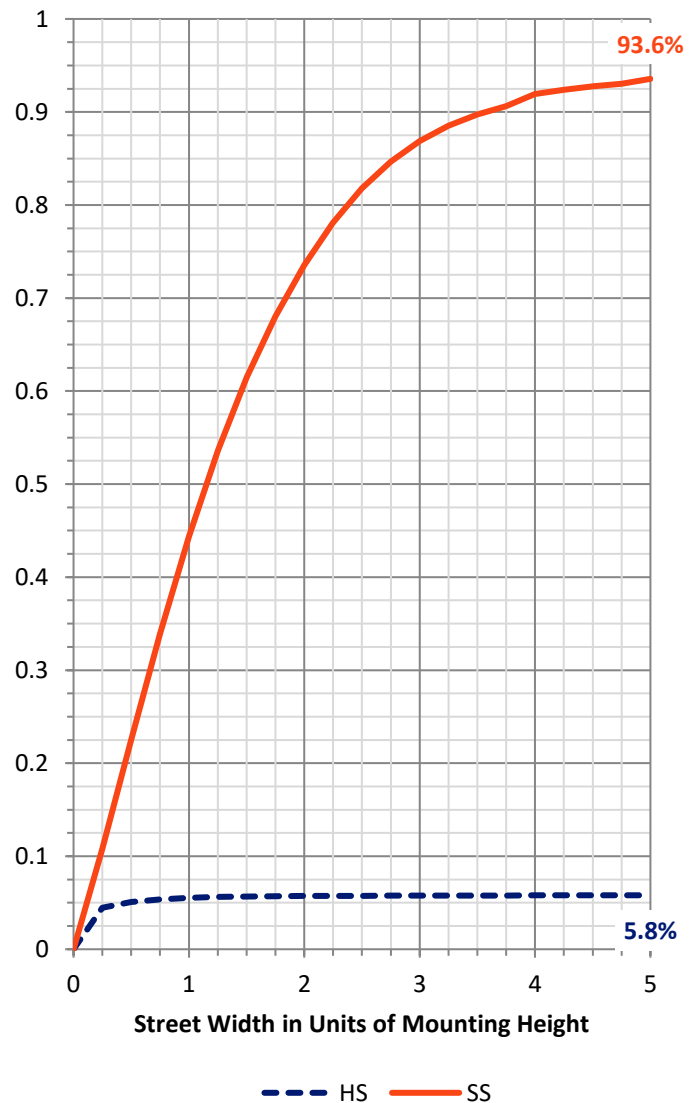
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1365.8	0.0	1365.8
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	21979.2	0.0	21979.2
	% Fixture	94.1	0.0	94.1
Total	Lumens	23345.0	0.0	23345.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.8	1.2
10°-20°	695.4	3.0
20°-30°	1171.4	5.0
30°-40°	1917.6	8.2
40°-50°	3320.2	14.2
50°-60°	5229.7	22.4
60°-70°	6829.8	29.3
70°-80°	3517.6	15.1
80°-90°	380.5	1.6
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°	23345.0	100.0
0°-180°	23345.0	100.0

Coefficient of Utilization



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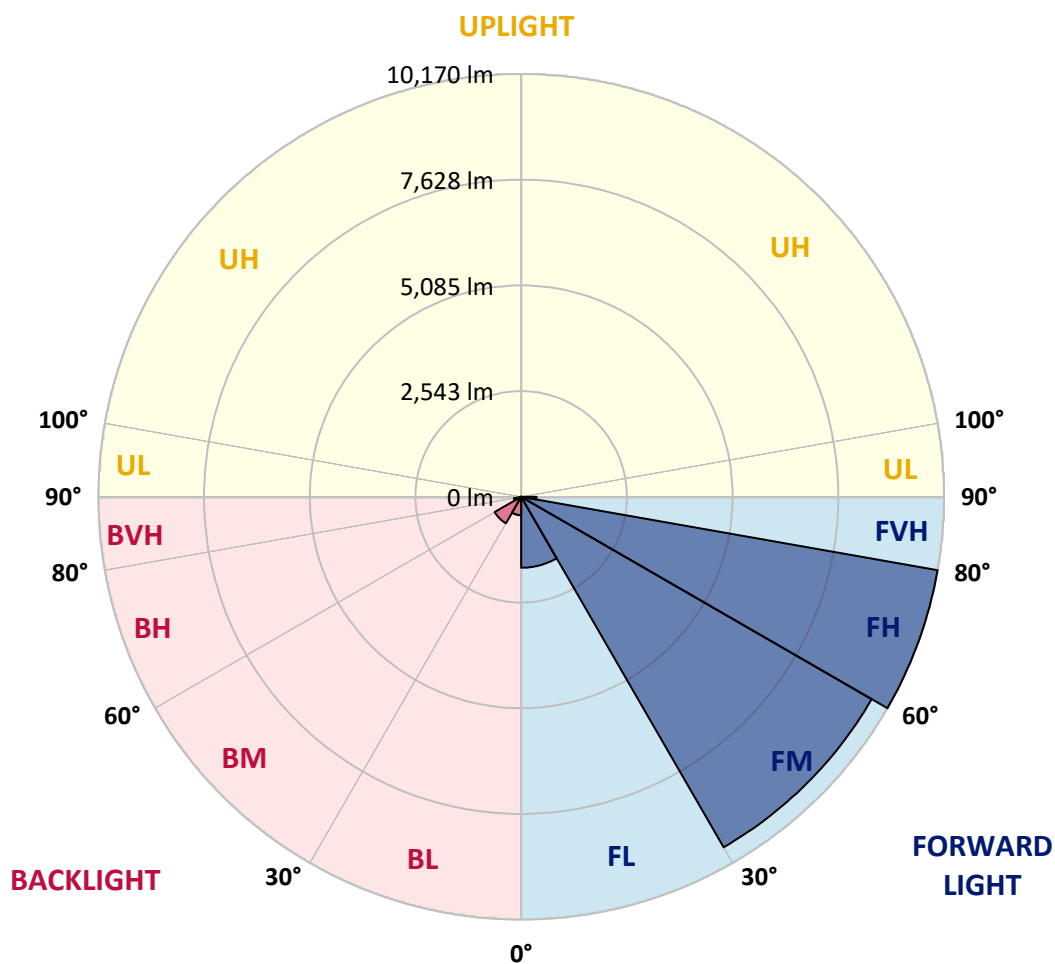
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1707.2	7.3			
FM	(30°-60°)	9733.4	41.7			
FH	(60°-80°)	10170.0	43.6			G4/12000
FVH	(80°-90°)	368.6	1.6			G3/500
BL	(0°-30°)	442.4	1.9	B1/500		
BM	(30°-60°)	734.1	3.1	B1/1000		
BH	(60°-80°)	177.4	0.8	B1/500		G1/500
BVH	(80°-90°)	11.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3487.9	3487.9	3487.9	3487.9	3487.9	3487.9	3487.9	3487.9	3487.9	3487.9	3487.9
2.5°	3829.7	3808.9	3796.4	3779.7	3758.8	3740.8	3733.8	3682.4	3633.8	3567.1	3490.6
5°	3900.6	3893.6	3871.4	3849.2	3824.1	3796.4	3781.1	3719.9	3650.4	3553.2	3419.8
7.5°	3907.5	3899.2	3871.4	3840.8	3806.1	3772.7	3746.3	3685.2	3621.3	3522.6	3360.0
10°	3896.4	3886.7	3865.8	3832.5	3789.4	3757.4	3731.0	3672.7	3618.5	3529.6	3348.9
12.5°	3883.9	3874.2	3864.4	3847.8	3810.2	3788.0	3765.8	3710.2	3661.6	3586.5	3389.2
15°	3896.4	3890.8	3902.0	3895.0	3874.2	3854.7	3832.5	3782.5	3738.0	3675.5	3462.9
17.5°	3949.2	3949.2	3983.9	3988.1	3968.7	3940.9	3908.9	3858.9	3821.4	3768.6	3550.4
20°	4072.9	4068.7	4113.2	4121.5	4074.3	4031.2	3983.9	3922.8	3893.6	3860.3	3636.5
22.5°	4285.5	4266.0	4292.4	4284.1	4191.0	4124.3	4065.9	3990.9	3975.6	3960.3	3732.4
25°	4562.0	4550.9	4569.0	4487.0	4323.0	4232.7	4163.2	4078.4	4078.4	4093.7	3840.8
27.5°	4963.6	4921.9	4860.8	4716.3	4470.3	4355.0	4279.9	4189.6	4213.2	4270.2	3983.9
30°	5374.9	5329.1	5188.7	4966.4	4649.6	4528.7	4441.1	4346.6	4402.2	4506.4	4175.7
32.5°	5780.7	5729.3	5530.6	5249.9	4906.6	4785.7	4701.0	4596.8	4689.9	4864.9	4456.4
35°	6173.9	6128.1	5898.8	5568.1	5248.5	5148.4	5070.6	4980.3	5099.8	5344.4	4852.4
37.5°	6615.8	6565.8	6286.5	5928.0	5664.0	5591.7	5534.7	5444.4	5652.8	6011.4	5404.1
40°	7159.2	7074.4	6697.8	6340.7	6144.8	6110.0	6071.1	6058.6	6382.4	6878.5	6139.2
42.5°	7781.7	7642.7	7128.6	6775.6	6672.8	6697.8	6688.1	6743.7	7295.3	7956.8	7034.1
45°	8404.2	8225.0	7608.0	7239.7	7253.6	7341.2	7395.4	7617.7	8439.0	9193.5	7997.1
47.5°	8932.3	8755.8	8067.9	7741.4	7908.1	8080.4	8227.7	8648.8	9614.6	10410.8	8746.1
50°	9383.9	9217.1	8555.7	8293.1	8668.2	8946.2	9185.2	9809.1	10879.1	11337.6	9271.3
52.5°	9753.5	9642.3	9061.5	8925.3	9536.7	9943.9	10294.1	11041.7	11999.1	12090.8	9679.9
55°	10113.4	10034.2	9604.8	9677.1	10556.7	11111.1	11554.4	12349.3	12963.5	12718.9	10071.7
57.5°	10527.5	10455.3	10224.6	10630.3	11897.6	12595.2	13078.8	13508.2	13812.5	13360.9	10441.4
60°	10949.9	10908.3	10913.8	11689.2	13437.3	14107.1	14373.9	14485.1	14646.2	13965.3	10462.2
62.5°	11352.9	11432.1	11701.7	12867.6	14911.7	15425.8	15560.6	15670.4	15481.4	14061.2	9666.0
65°	12035.2	12164.4	12807.8	14444.8	16533.3	17083.6	17222.5	16846.0	15613.4	12821.7	7862.3
67.5°	12368.7	12604.9	13752.7	15914.9	18106.3	18717.7	18666.3	16922.4	14011.2	9777.1	5045.6
69°	12299.2	12550.7	13970.9	16365.2	18628.8	19183.2	18856.7	15987.2	11936.6	7082.7	3097.4
70°	12024.1	12278.4	13858.3	16348.5	18695.5	19134.6	18503.7	14832.5	10092.6	5179.0	1937.1
72.5°	10041.2	10260.7	12303.4	14776.9	17222.5	16865.4	15480.0	10276.0	4917.7	1410.4	436.3
75°	6180.9	6303.2	8828.0	11132.0	13007.9	12090.8	10313.5	5112.3	1466.0	398.8	241.8
77.5°	3265.5	3321.1	4833.0	6561.6	8245.8	6822.9	5286.0	1994.1	675.3	250.1	175.1
80°	1930.1	1971.8	2602.7	3000.1	3568.5	2980.7	2113.6	1224.2	483.6	157.0	155.6
82.5°	1104.7	1131.1	1887.1	1667.5	1406.3	1200.6	1051.9	1160.3	290.4	105.6	161.2
85°	405.8	411.3	1061.6	1268.7	836.5	497.5	522.5	961.6	77.8	66.7	126.5
87.5°	189.0	184.8	546.1	776.8	489.1	315.4	407.1	211.2	30.6	43.1	34.7
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°	3487.9	3487.9	3487.9	3487.9	3487.9	3487.9	3487.9	3487.9	3487.9	3487.9	3487.9
2.5°	3446.2	3394.8	3301.7	3205.8	3108.5	3033.5	2959.8	2901.5	2882.0	2845.9	2848.7
5°	3340.6	3246.1	3051.5	2854.2	2648.6	2479.0	2319.2	2190.0	2127.5	2063.5	2063.5
7.5°	3248.9	3111.3	2807.0	2486.0	2153.9	1874.6	1623.0	1434.1	1329.8	1246.5	1245.1
10°	3214.1	3027.9	2602.7	2142.7	1680.0	1299.3	1000.5	808.7	710.1	646.2	643.4
12.5°	3229.4	2998.7	2445.7	1825.9	1245.1	835.1	579.5	455.8	414.1	394.6	394.6
15°	3273.9	2990.4	2288.6	1516.0	879.6	522.5	384.9	351.6	348.8	348.8	348.8
17.5°	3328.1	2993.2	2127.5	1214.5	598.9	373.8	332.1	327.9	330.7	330.7	330.7
20°	3383.6	2994.6	1953.8	935.2	422.4	325.2	312.7	311.3	314.0	314.0	315.4
22.5°	3451.7	3001.5	1780.1	699.0	348.8	307.1	297.4	297.4	298.8	298.8	297.4
25°	3529.6	3015.4	1599.4	518.3	318.2	294.6	286.3	284.9	286.3	284.9	283.5
27.5°	3626.8	3034.9	1397.9	405.8	304.3	282.1	275.1	275.1	273.7	272.4	271.0
30°	3749.1	3057.1	1171.4	344.6	290.4	271.0	264.0	262.6	261.2	258.5	258.5
32.5°	3935.3	3105.7	947.7	312.7	275.1	255.7	250.1	250.1	247.3	244.6	243.2
35°	4221.6	3201.6	747.6	293.2	258.5	239.0	232.1	232.1	229.3	227.9	226.5
37.5°	4617.6	3347.5	580.8	275.1	241.8	220.9	214.0	212.6	209.8	207.0	205.7
40°	5144.3	3528.2	457.2	258.5	225.1	202.9	197.3	194.5	189.0	184.8	184.8
42.5°	5805.7	3733.8	371.0	240.4	205.7	186.2	182.0	177.9	168.1	164.0	162.6
45°	6497.7	3918.6	314.0	219.6	186.2	169.5	166.8	159.8	147.3	143.1	143.1
47.5°	6996.6	3961.7	276.5	200.1	168.1	151.5	150.1	137.6	126.5	123.7	122.3
50°	7307.8	3876.9	246.0	180.6	151.5	134.8	130.6	115.3	108.4	105.6	104.2
52.5°	7517.7	3725.5	220.9	164.0	136.2	119.5	109.8	98.7	93.1	90.3	90.3
55°	7685.8	3511.5	195.9	148.7	123.7	107.0	93.1	84.8	79.2	76.4	76.4
57.5°	7733.1	3221.1	170.9	136.2	111.2	94.5	79.2	73.6	66.7	65.3	65.3
60°	7389.8	2697.2	151.5	120.9	100.1	82.0	69.5	62.5	55.6	54.2	52.8
62.5°	6485.2	2087.2	133.4	107.0	87.5	70.9	59.8	51.4	45.9	45.9	45.9
65°	4946.9	1399.3	116.7	93.1	76.4	59.8	51.4	41.7	38.9	38.9	40.3
67.5°	2961.2	761.5	100.1	79.2	65.3	50.0	43.1	36.1	34.7	36.1	36.1
69°	1735.6	447.4	90.3	70.9	57.0	44.5	37.5	32.0	34.7	36.1	36.1
70°	1071.4	301.5	83.4	63.9	51.4	40.3	34.7	30.6	33.4	34.7	34.7
72.5°	298.8	155.6	66.7	50.0	41.7	33.4	27.8	27.8	32.0	33.4	33.4
75°	194.5	115.3	51.4	37.5	32.0	26.4	23.6	26.4	30.6	32.0	32.0
77.5°	161.2	94.5	41.7	30.6	26.4	25.0	22.2	23.6	27.8	29.2	29.2
80°	147.3	66.7	33.4	27.8	23.6	22.2	20.8	19.5	25.0	26.4	26.4
82.5°	140.3	52.8	29.2	25.0	22.2	19.5	18.1	19.5	22.2	23.6	25.0
85°	87.5	34.7	26.4	23.6	19.5	18.1	18.1	18.1	20.8	22.2	22.2
87.5°	32.0	27.8	23.6	19.5	16.7	16.7	16.7	16.7	18.1	20.8	20.8
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)