

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: P194514

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194514
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7060
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35604 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 333
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

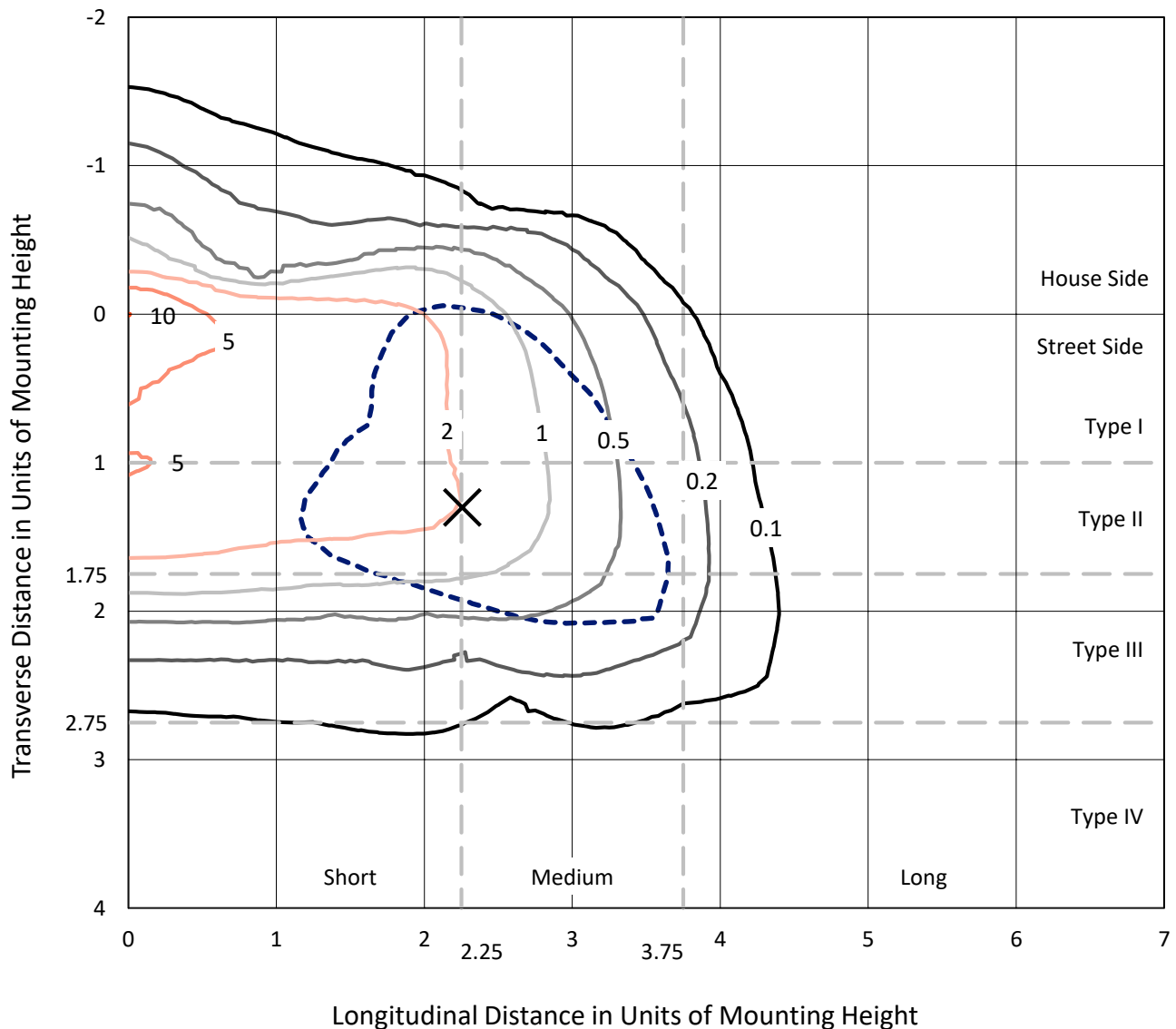


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

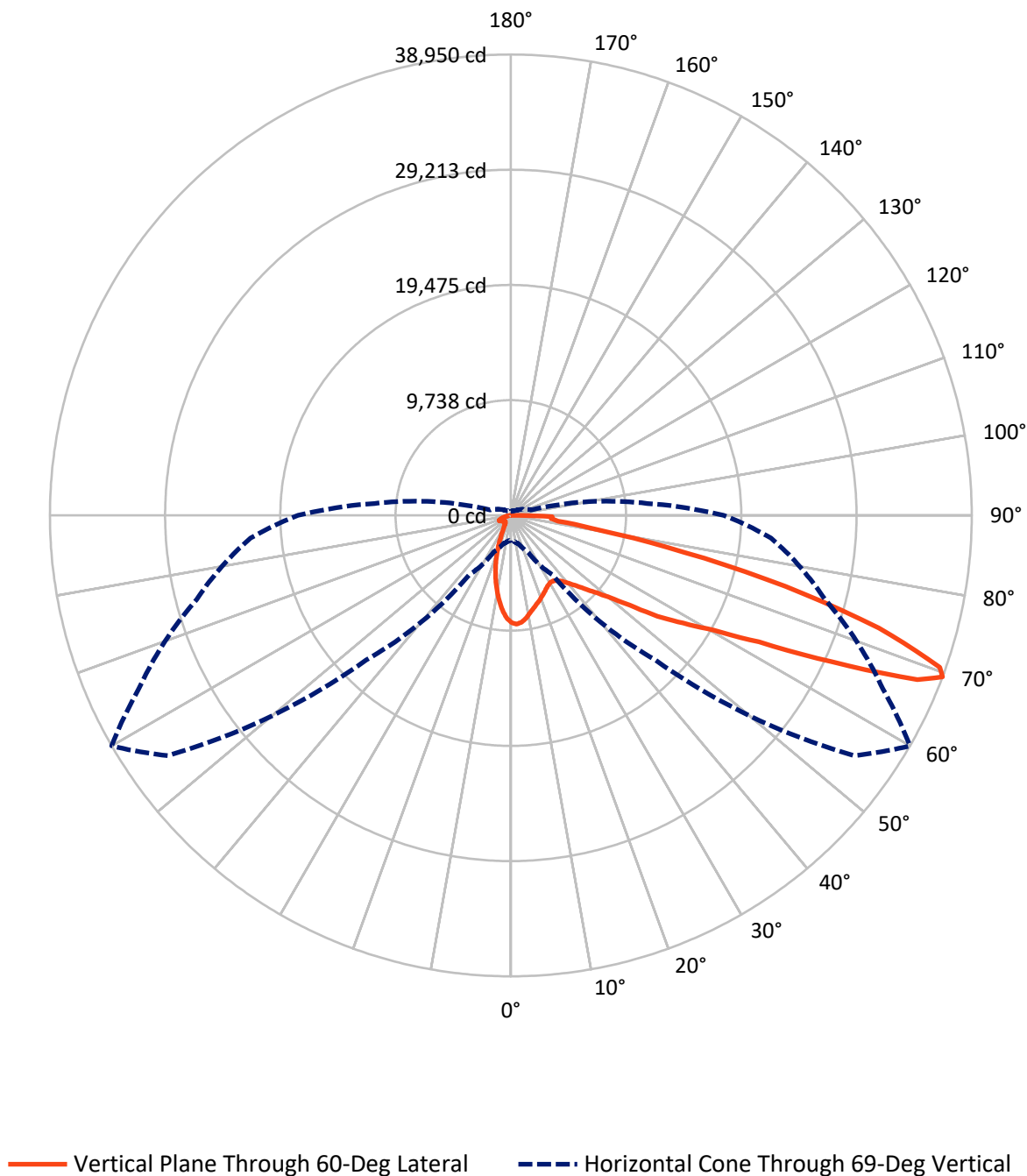


Based on 30 foot mounting height. Maximum calculated value = 10.1 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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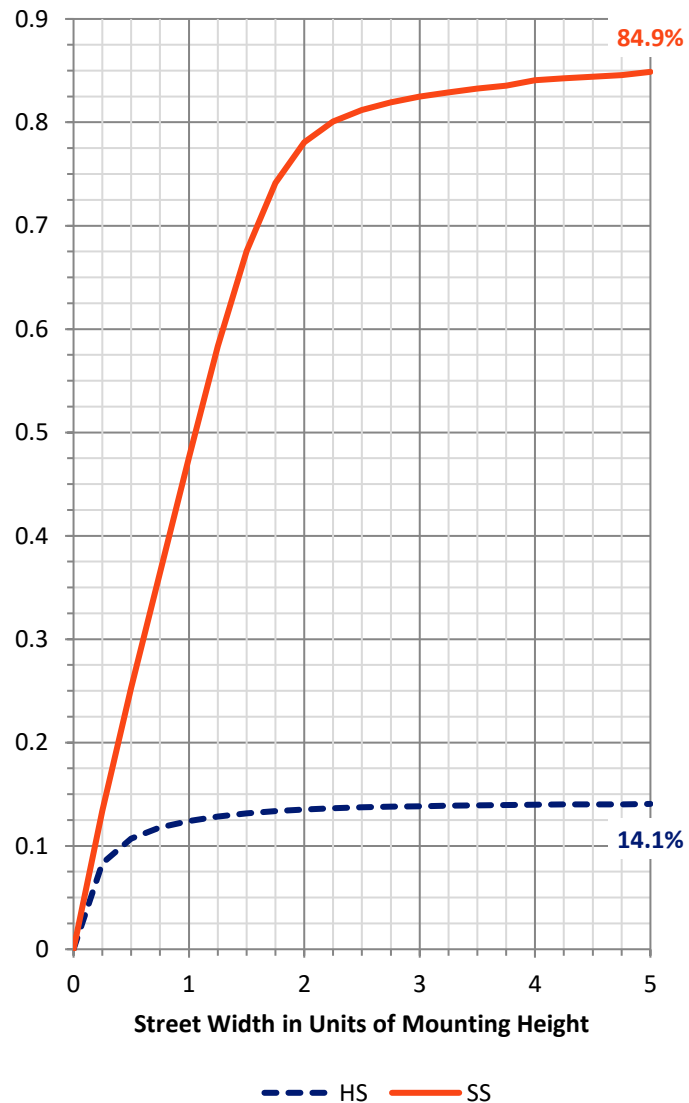
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5065.3	0.0	5065.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	30538.7	0.0	30538.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	35604.0	0.0	35604.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	767.1	2.2
10°-20°	1634.4	4.6
20°-30°	2082.5	5.8
30°-40°	2862.9	8.0
40°-50°	4645.3	13.0
50°-60°	7449.9	20.9
60°-70°	9915.2	27.8
70°-80°	5353.5	15.0
80°-90°	893.3	2.5
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°	35604.0	100.0
0°-180°	35604.0	100.0

Coefficient of Utilization



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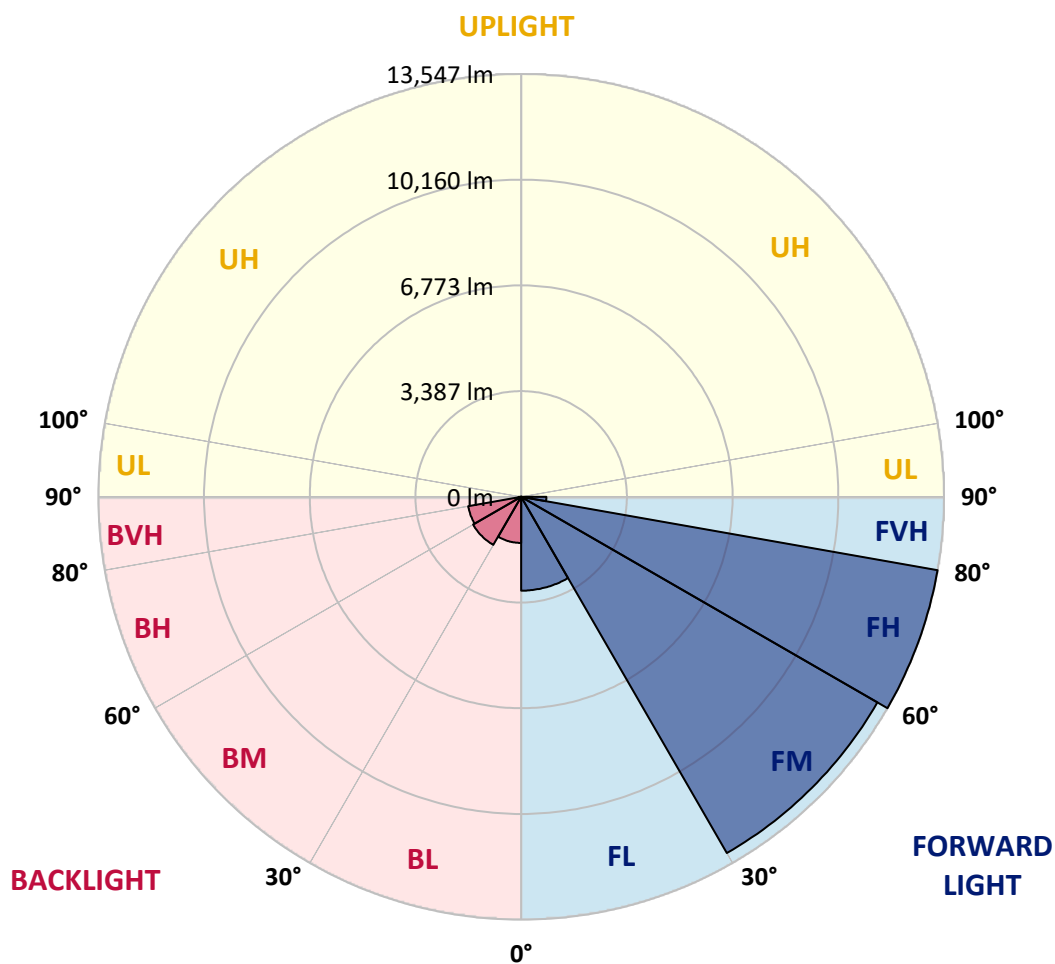
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3006.3	8.4			
FM	(30°-60°)	13178.5	37.0			
FH	(60°-80°)	13546.6	38.0			G5
FVH	(80°-90°)	807.2	2.3			G5
BL	(0°-30°)	1477.7	4.2	B3/2500		
BM	(30°-60°)	1779.5	5.0	B2/2500		
BH	(60°-80°)	1722.1	4.8	B3/2500		G3/2500
BVH	(80°-90°)	86.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	9072.4	9072.4	9072.4	9072.4	9072.4	9072.4	9072.4	9072.4	9072.4	9072.4	9072.4
2.5°	9258.2	9278.8	9270.2	9265.1	9280.5	9256.5	9206.6	9191.1	9167.0	9110.3	9014.0
5°	8910.8	8972.7	8969.2	9015.7	9093.1	9113.7	9091.4	9094.8	9050.1	8979.6	8819.6
7.5°	8310.5	8336.3	8350.1	8451.6	8592.6	8706.1	8802.4	8833.4	8812.7	8752.5	8546.2
10°	7691.4	7712.0	7744.7	7863.4	8042.2	8198.7	8381.0	8486.0	8530.7	8520.4	8289.9
12.5°	7159.9	7180.6	7223.6	7357.7	7571.0	7763.6	8028.5	8159.2	8265.8	8329.4	8081.8
15°	6683.5	6728.2	6769.5	6924.3	7163.4	7416.2	7715.4	7880.6	8045.7	8188.4	7897.8
17.5°	6312.0	6356.7	6380.8	6521.8	6776.4	7086.0	7436.8	7631.2	7837.6	8071.5	7715.4
20°	6097.0	6117.7	6107.3	6186.5	6415.2	6743.7	7159.9	7385.2	7634.6	7961.4	7533.1
22.5°	6036.8	6038.5	6000.7	5992.1	6140.0	6416.9	6864.1	7137.6	7443.7	7889.2	7376.6
25°	6183.0	6177.9	6074.7	5990.4	6005.9	6167.5	6578.6	6896.8	7283.8	7873.7	7256.2
27.5°	6508.1	6523.6	6370.5	6212.3	6055.7	6050.6	6361.9	6697.3	7153.0	7944.2	7204.6
30°	6963.9	6989.6	6826.3	6625.0	6330.9	6088.4	6277.6	6578.6	7072.2	8090.4	7196.0
32.5°	7462.6	7490.1	7366.3	7154.8	6769.5	6322.3	6336.1	6588.9	7068.8	8295.0	7254.5
35°	7994.1	8025.0	7961.4	7782.5	7354.3	6754.0	6559.7	6755.7	7180.6	8608.1	7411.0
37.5°	8587.4	8635.6	8652.8	8482.5	8025.0	7323.3	6926.0	7072.2	7433.4	9043.2	7698.2
40°	9442.2	9509.3	9504.1	9259.9	8793.8	8092.1	7491.9	7529.7	7827.2	9624.5	8157.5
42.5°	11079.6	11093.3	10665.1	10133.6	9640.0	8900.5	8159.2	8128.2	8370.7	10360.6	8833.4
45°	13162.3	13105.6	12152.8	11126.0	10524.0	9829.2	9027.7	8876.4	9060.4	11258.4	9679.6
47.5°	14890.8	14760.1	13556.2	12139.0	11459.7	10838.8	10047.6	9782.8	9884.2	12276.6	10773.4
50°	15491.1	15393.0	14395.5	12981.8	12345.4	12070.2	11303.1	10928.2	10955.7	13490.8	12054.7
52.5°	15362.1	15348.3	14682.7	13537.3	13174.4	13363.6	13081.5	12574.1	12305.8	14839.2	13437.5
55°	15057.7	15086.9	14846.1	14184.0	14122.0	14612.2	15405.1	15030.2	14196.0	16199.7	14866.8
57.5°	13999.9	14075.6	14605.3	14997.5	15647.6	16376.8	17276.3	17169.7	16230.6	17670.2	16566.0
60°	11279.1	11454.5	12875.1	14839.2	17217.9	19498.4	19900.9	19653.2	18328.9	19495.0	18810.5
62.5°	7902.9	8085.2	9774.2	12847.6	16959.9	23024.2	24592.8	23524.7	21342.2	22183.2	21715.4
65°	4230.9	4318.7	5608.6	8914.2	14318.1	23751.7	31450.0	29824.7	26113.1	25497.4	24200.6
67.5°	2333.9	2382.1	2875.7	4501.0	9170.5	20915.6	35818.5	37046.5	32076.0	27704.0	23748.3
69°	2110.3	2155.0	2478.4	3408.8	6136.6	17293.5	35392.0	38950.4	34690.3	27485.6	22076.6
70°	2063.9	2105.2	2395.8	3142.2	4967.1	14254.5	33962.7	38463.7	35312.9	26703.1	20618.1
72.5°	1857.5	1902.2	2184.3	2822.3	4244.7	7106.6	26902.6	32521.5	32060.5	23153.2	15639.0
75°	1731.9	1773.2	2251.3	2763.9	4064.1	4497.5	17735.5	23968.4	23567.7	16196.2	8432.6
77.5°	741.3	737.8	1044.0	2339.1	4124.3	4354.8	9529.9	14973.4	13661.1	6922.6	2421.6
80°	495.3	486.7	495.3	688.0	3782.0	4378.8	4992.9	7600.2	5741.0	1764.6	1193.6
82.5°	426.5	419.7	435.1	419.7	1329.5	4998.0	4244.7	4041.8	2729.5	1002.7	591.6
85°	287.2	275.2	374.9	376.7	627.8	4440.8	4781.3	3414.0	2208.3	595.1	292.4
87.5°	137.6	134.2	218.4	266.6	368.1	1804.2	5364.3	3498.3	2227.3	304.4	139.3
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°	9072.4	9072.4	9072.4	9072.4	9072.4	9072.4	9072.4	9072.4	9072.4	9072.4	9072.4
2.5°	8984.7	8914.2	8845.4	8762.9	8676.9	8580.6	8532.4	8484.2	8472.2	8458.4	8410.3
5°	8737.1	8637.3	8465.3	8276.1	8076.6	7882.3	7734.4	7641.5	7571.0	7534.9	7471.2
7.5°	8417.2	8271.0	7970.0	7643.2	7307.8	7001.7	6736.8	6570.0	6411.8	6337.8	6253.5
10°	8112.7	7894.3	7426.5	6944.9	6463.4	6000.7	5565.6	5257.7	4984.3	4831.2	4722.8
12.5°	7851.3	7552.1	6903.7	6251.8	5591.4	4932.7	4280.8	3768.3	3340.0	3114.7	2999.5
15°	7596.8	7235.6	6406.6	5579.3	4731.4	3835.4	2978.9	2397.5	2043.2	1902.2	1854.0
17.5°	7366.3	6903.7	5907.8	4901.7	3844.0	2760.4	2002.0	1682.1	1546.2	1499.7	1484.3
20°	7116.9	6568.3	5390.1	4193.1	2918.7	1929.7	1563.4	1422.4	1367.3	1353.6	1346.7
22.5°	6876.1	6238.1	4894.8	3434.6	2096.6	1489.4	1343.2	1284.8	1276.2	1288.2	1288.2
25°	6671.5	5942.2	4359.9	2641.8	1539.3	1253.8	1202.2	1188.4	1221.1	1265.8	1274.4
27.5°	6518.4	5699.7	3790.6	1950.4	1226.3	1090.4	1088.7	1111.1	1191.9	1277.9	1295.1
30°	6413.5	5469.3	3181.8	1406.9	1028.5	959.7	987.2	1035.4	1154.0	1276.2	1308.8
32.5°	6360.2	5299.0	2547.2	1088.7	880.6	842.7	889.2	947.7	1064.6	1178.1	1221.1
35°	6401.4	5173.4	1948.6	908.1	777.4	748.2	796.3	853.1	921.9	970.0	1002.7
37.5°	6556.2	5123.6	1470.5	813.5	706.9	679.4	717.2	749.9	777.4	791.2	806.6
40°	6889.9	5176.9	1178.1	765.4	667.3	632.9	648.4	660.4	677.6	691.4	698.3
42.5°	7381.8	5336.8	1056.0	746.4	646.7	596.8	593.4	598.5	620.9	646.7	651.8
45°	8069.7	5618.9	1047.4	758.5	636.4	567.6	552.1	559.0	593.4	632.9	639.8
47.5°	8948.6	6048.9	1116.2	794.6	645.0	552.1	526.3	534.9	577.9	631.2	639.8
50°	10013.2	6649.1	1231.4	847.9	682.8	555.5	517.7	522.8	567.6	626.0	634.6
52.5°	11270.5	7500.5	1357.0	899.5	722.4	577.9	524.6	512.5	553.8	605.4	615.7
55°	12668.7	8592.6	1486.0	945.9	743.0	605.4	538.3	498.8	528.0	571.0	579.6
57.5°	14385.2	10119.9	1709.6	990.7	756.8	624.3	552.1	485.0	495.3	526.3	533.2
60°	16708.8	12280.0	2103.4	1064.6	787.7	631.2	550.4	473.0	462.7	479.9	483.3
62.5°	19493.3	14626.0	2431.9	1157.5	839.3	636.4	540.0	464.4	435.1	435.1	438.6
65°	21146.1	15253.7	2249.6	1234.9	882.3	631.2	528.0	455.8	414.5	395.6	397.3
67.5°	19744.4	13415.2	1928.0	1250.4	880.6	607.1	509.1	440.3	393.9	364.6	362.9
69°	17988.4	11574.9	1783.5	1209.1	839.3	576.2	485.0	423.1	378.4	347.4	345.7
70°	16572.9	10451.8	1688.9	1164.4	794.6	553.8	466.1	407.6	366.3	337.1	333.7
72.5°	12049.6	6848.6	1443.0	1001.0	655.3	464.4	402.5	357.7	326.8	309.6	306.1
75°	6021.3	3266.1	1171.2	811.8	502.2	371.5	330.2	299.3	283.8	280.3	278.6
77.5°	1977.9	1496.3	837.6	605.4	373.2	290.7	266.6	244.2	240.8	251.1	247.7
80°	1087.0	870.3	531.4	400.7	254.5	213.3	209.8	197.8	202.9	220.1	216.7
82.5°	553.8	452.3	328.5	240.8	172.0	153.1	166.8	160.0	166.8	182.3	180.6
85°	273.5	247.7	208.1	146.2	113.5	98.0	118.7	123.8	127.3	139.3	139.3
87.5°	158.2	146.2	110.1	68.8	56.8	51.6	68.8	67.1	79.1	86.0	84.3
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)