

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: P192925

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192925
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-07-LED-E1-SL3-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA 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: 44672.8 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 448
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



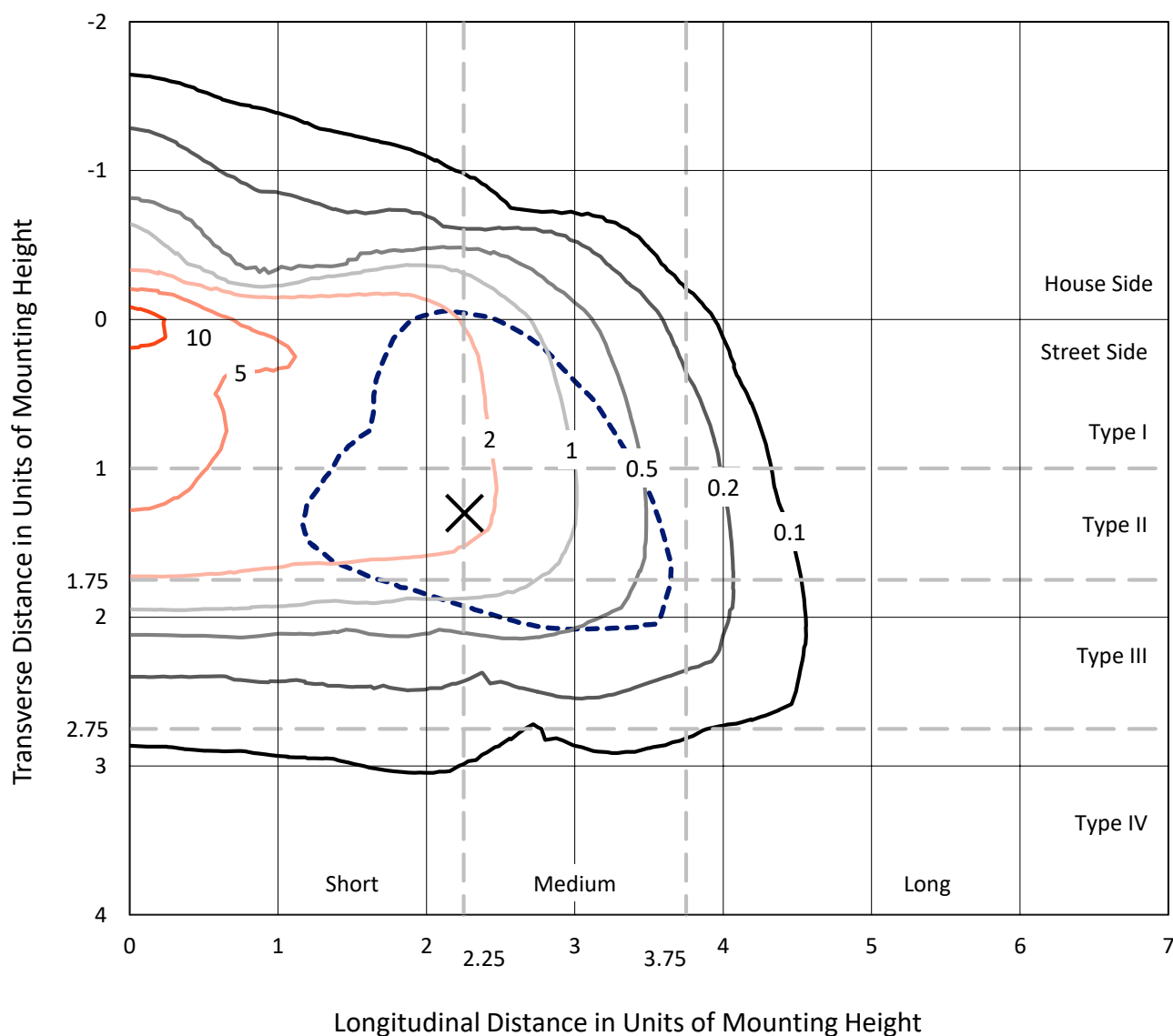
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

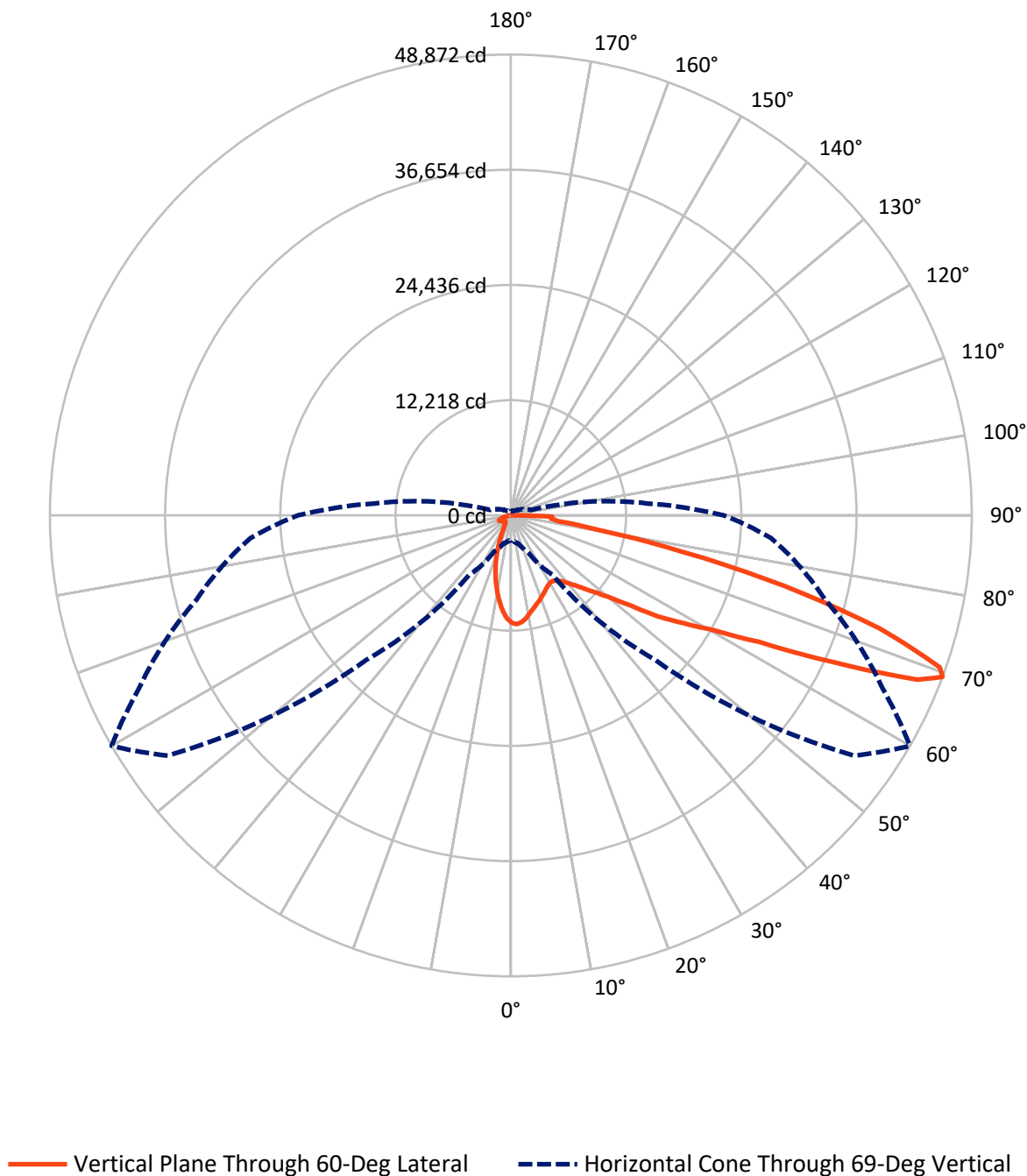


Based on 30 foot mounting height. Maximum calculated value = 12.6 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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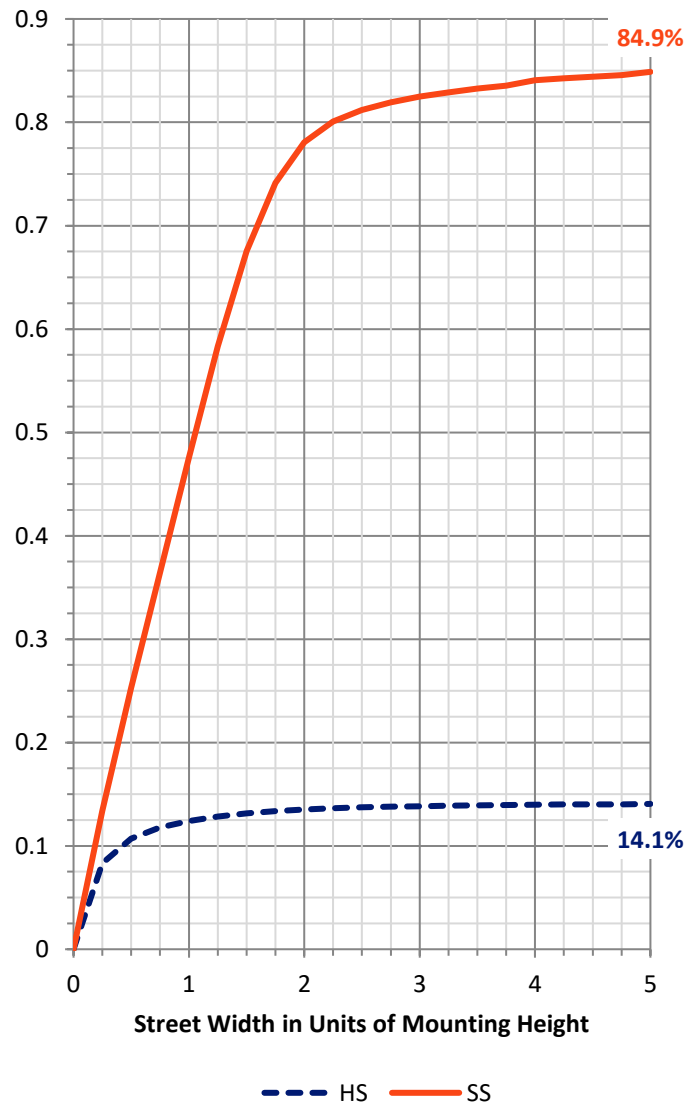
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6355.5	0.0	6355.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	38317.3	0.0	38317.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	44672.8	0.0	44672.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	962.5	2.2
10°-20°	2050.7	4.6
20°-30°	2612.9	5.8
30°-40°	3592.1	8.0
40°-50°	5828.5	13.0
50°-60°	9347.5	20.9
60°-70°	12440.8	27.8
70°-80°	6717.1	15.0
80°-90°	1120.8	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°	44672.8	100.0
0°-180°	44672.8	100.0

Coefficient of Utilization



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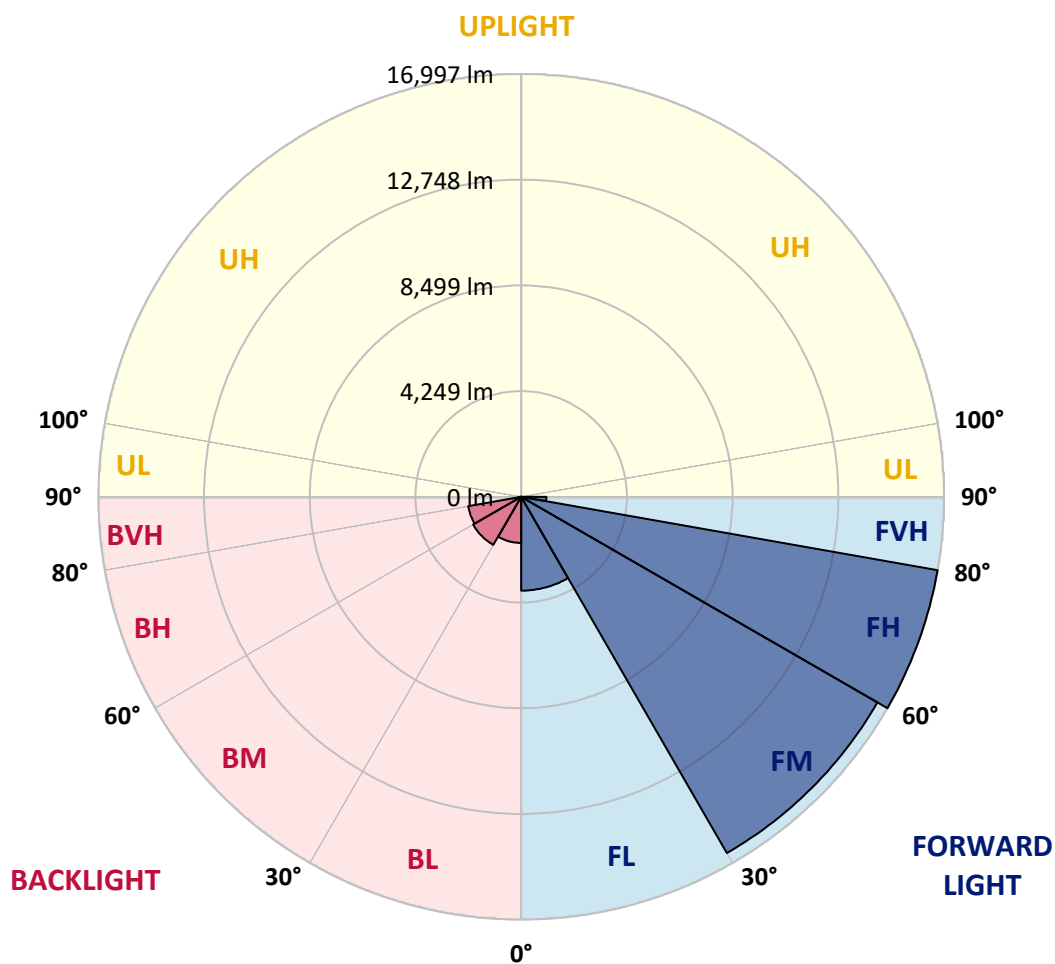
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3772.0	8.4			
FM	(30°-60°)	16535.3	37.0			
FH	(60°-80°)	16997.2	38.0			G5
FVH	(80°-90°)	1012.9	2.3			G5
BL	(0°-30°)	1854.1	4.2	B3/2500		
BM	(30°-60°)	2232.8	5.0	B2/2500		
BH	(60°-80°)	2160.7	4.8	B3/2500		G3/2500
BVH	(80°-90°)	107.9	0.2			G2/225
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°	11383.2	11383.2	11383.2	11383.2	11383.2	11383.2	11383.2	11383.2	11383.2	11383.2	11383.2
2.5°	11616.3	11642.2	11631.5	11624.9	11644.5	11614.3	11551.7	11532.2	11502.0	11430.8	11310.0
5°	11180.5	11258.2	11253.8	11312.1	11409.2	11435.1	11407.1	11411.4	11355.4	11266.9	11066.1
7.5°	10427.3	10459.7	10477.0	10604.2	10781.2	10923.6	11044.5	11083.4	11057.5	10981.9	10722.9
10°	9650.5	9676.3	9717.4	9866.2	10090.6	10287.1	10515.7	10647.5	10703.6	10690.6	10401.5
12.5°	8983.7	9009.5	9063.5	9231.9	9499.4	9741.1	10073.3	10237.5	10371.2	10451.0	10140.4
15°	8385.8	8442.0	8493.9	8688.0	8988.0	9305.2	9680.7	9887.9	10095.0	10274.0	9909.4
17.5°	7919.7	7975.9	8006.1	8183.1	8502.4	8890.9	9331.1	9574.9	9833.9	10127.4	9680.7
20°	7650.0	7675.9	7663.0	7762.3	8049.2	8461.4	8983.7	9266.4	9579.2	9989.2	9451.9
22.5°	7574.5	7576.7	7529.2	7518.3	7704.0	8051.5	8612.5	8955.6	9339.7	9898.7	9255.6
25°	7758.0	7751.4	7621.9	7516.3	7535.6	7738.5	8254.2	8653.5	9139.0	9879.2	9104.5
27.5°	8165.8	8185.1	7993.2	7794.5	7598.2	7591.8	7982.4	8403.1	8975.0	9967.7	9039.8
30°	8737.7	8770.0	8565.1	8312.6	7943.4	7639.2	7876.6	8254.2	8873.6	10151.1	9028.9
32.5°	9363.4	9397.9	9242.6	8977.2	8493.9	7932.8	7950.0	8267.2	8869.2	10407.9	9102.4
35°	10030.2	10069.2	9989.2	9764.8	9227.5	8474.3	8230.5	8476.6	9009.5	10800.8	9298.7
37.5°	10774.8	10835.2	10856.8	10643.2	10069.2	9188.7	8690.2	8873.6	9326.8	11346.7	9659.1
40°	11847.3	11931.4	11925.0	11618.5	11033.8	10153.3	9400.1	9447.6	9821.0	12076.0	10235.3
42.5°	13901.7	13919.0	13381.6	12714.8	12095.4	11167.5	10237.5	10198.6	10502.9	12999.6	11083.4
45°	16515.0	16443.7	15248.2	13959.9	13204.6	12332.8	11327.2	11137.4	11368.2	14126.1	12145.0
47.5°	18683.8	18519.8	17009.2	15231.0	14378.6	13599.6	12606.9	12274.5	12401.9	15403.6	13517.5
50°	19436.9	19313.9	18062.2	16288.4	15489.9	15144.7	14182.2	13711.8	13746.4	16927.1	15125.2
52.5°	19275.1	19257.8	18422.6	16985.5	16530.1	16767.5	16413.6	15776.9	15440.3	18619.0	16860.3
55°	18893.1	18929.7	18627.6	17796.8	17719.1	18334.1	19328.9	18858.5	17811.9	20325.9	18653.5
57.5°	17565.9	17660.8	18325.5	18817.5	19633.3	20548.3	21676.8	21543.0	20364.9	22171.0	20785.6
60°	14152.1	14372.1	16154.6	18619.0	21603.5	24465.0	24969.9	24659.2	22997.6	24460.6	23601.7
62.5°	9916.0	10144.6	12263.8	16120.1	21279.8	28888.8	30856.9	29516.8	26778.4	27833.6	27246.6
65°	5308.6	5418.7	7037.2	11184.8	17965.2	29801.7	39460.7	37421.4	32764.5	31991.9	30364.9
67.5°	2928.3	2988.8	3608.2	5647.4	11506.3	26243.1	44941.9	46482.8	40246.2	34760.7	29797.3
69°	2647.8	2703.9	3109.6	4277.1	7699.6	21698.5	44406.8	48871.6	43526.3	34486.6	27699.7
70°	2589.6	2641.4	3006.0	3942.6	6232.2	17885.3	42613.6	48260.9	44307.6	33504.7	25869.8
72.5°	2330.6	2386.8	2740.7	3541.2	5325.9	8916.7	33755.0	40805.2	40226.8	29050.6	19622.4
75°	2173.0	2224.8	2824.8	3467.9	5099.3	5643.1	22253.1	30073.5	29570.7	20321.6	10580.5
77.5°	930.2	925.8	1309.9	2934.8	5174.8	5463.9	11957.4	18787.3	17140.8	8685.9	3038.4
80°	621.4	610.8	621.4	863.1	4745.3	5494.2	6264.6	9536.0	7203.4	2214.0	1497.6
82.5°	535.2	526.5	546.0	526.5	1668.1	6271.1	5325.9	5071.3	3424.7	1258.1	742.3
85°	360.3	345.3	470.5	472.5	787.6	5571.9	5999.2	4283.6	2770.9	746.7	366.9
87.5°	172.6	168.4	274.0	334.5	461.8	2263.8	6730.7	4389.3	2794.6	382.0	174.9
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°	11383.2	11383.2	11383.2	11383.2	11383.2	11383.2	11383.2	11383.2	11383.2	11383.2	11383.2
2.5°	11273.3	11184.8	11098.4	10994.9	10887.0	10766.2	10705.7	10645.2	10630.2	10612.9	10552.5
5°	10962.5	10837.3	10621.5	10384.2	10133.8	9890.0	9704.4	9587.8	9499.4	9454.1	9374.2
7.5°	10561.1	10377.7	10000.1	9590.0	9169.2	8785.1	8452.8	8243.5	8045.0	7952.1	7846.4
10°	10179.1	9905.1	9318.1	8713.9	8109.7	7529.2	6983.2	6597.0	6253.8	6061.7	5925.7
12.5°	9851.2	9475.6	8662.1	7844.3	7015.5	6189.1	5371.1	4728.0	4190.7	3908.1	3763.6
15°	9531.8	9078.6	8038.4	7000.5	5936.6	4812.4	3737.6	3008.2	2563.7	2386.8	2326.3
17.5°	9242.6	8662.1	7412.7	6150.2	4823.0	3463.5	2511.9	2110.5	1940.0	1881.8	1862.4
20°	8929.6	8241.3	6763.0	5261.2	3662.1	2421.3	1961.6	1784.6	1715.6	1698.3	1689.7
22.5°	8627.5	7827.0	6141.6	4309.5	2630.5	1868.8	1685.4	1612.0	1601.2	1616.3	1616.3
25°	8370.8	7455.9	5470.5	3314.6	1931.3	1573.2	1508.5	1491.2	1532.2	1588.3	1599.0
27.5°	8178.7	7151.6	4756.2	2447.2	1538.6	1368.2	1366.0	1394.0	1495.4	1603.4	1624.9
30°	8047.1	6862.3	3992.3	1765.2	1290.5	1204.1	1238.7	1299.1	1448.0	1601.2	1642.1
32.5°	7980.2	6648.8	3196.0	1366.0	1104.8	1057.4	1115.6	1189.1	1335.8	1478.2	1532.2
35°	8031.9	6491.2	2445.0	1139.5	975.3	938.7	999.1	1070.3	1156.7	1217.1	1258.1
37.5°	8226.2	6428.6	1845.1	1020.7	886.9	852.4	899.9	940.8	975.3	992.6	1012.1
40°	8644.8	6495.5	1478.2	960.3	837.3	794.1	813.6	828.6	850.2	867.5	876.1
42.5°	9262.0	6696.2	1325.0	936.6	811.4	748.9	744.5	750.9	779.0	811.4	818.0
45°	10125.2	7050.1	1314.2	951.6	798.4	712.2	692.7	701.3	744.5	794.1	802.7
47.5°	11227.9	7589.5	1400.4	997.0	809.3	692.7	660.4	671.2	725.1	792.0	802.7
50°	12563.7	8342.7	1545.2	1063.8	856.7	697.1	649.5	656.0	712.2	785.5	796.3
52.5°	14141.2	9410.9	1702.7	1128.6	906.3	725.1	658.2	643.1	694.9	759.6	772.6
55°	15895.7	10781.2	1864.5	1186.9	932.2	759.6	675.4	625.8	662.5	716.4	727.2
57.5°	18049.3	12697.6	2145.0	1243.1	949.5	783.4	692.7	608.6	621.4	660.4	669.0
60°	20964.7	15408.0	2639.1	1335.8	988.4	792.0	690.5	593.5	580.5	602.1	606.4
62.5°	24458.4	18351.4	3051.4	1452.3	1053.0	798.4	677.6	582.7	546.0	546.0	550.2
65°	26532.3	19139.1	2822.6	1549.4	1107.1	792.0	662.5	571.9	520.1	496.4	498.4
67.5°	24773.6	16832.2	2419.1	1568.9	1104.8	761.7	638.7	552.5	494.2	457.5	455.3
69°	22570.2	14523.2	2237.8	1517.1	1053.0	723.0	608.6	530.9	474.7	436.0	433.8
70°	20794.2	13114.1	2119.1	1460.9	997.0	694.9	584.9	511.5	459.7	423.0	418.7
72.5°	15118.7	8593.0	1810.5	1255.9	822.1	582.7	505.0	448.8	410.0	388.4	384.1
75°	7555.1	4098.0	1469.5	1018.6	630.1	466.1	414.3	375.6	356.0	351.7	349.6
77.5°	2481.8	1877.4	1051.0	759.6	468.2	364.7	334.5	306.5	302.1	315.1	310.8
80°	1363.9	1091.9	666.8	502.8	319.4	267.5	263.4	248.1	254.7	276.2	271.9
82.5°	694.9	567.6	412.1	302.1	215.8	192.1	209.3	200.7	209.3	228.8	226.6
85°	343.1	310.8	261.1	183.4	142.5	123.0	148.9	155.3	159.7	174.9	174.9
87.5°	198.6	183.4	138.1	86.4	71.2	64.8	86.4	84.1	99.3	107.9	105.8
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)