

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: P193207

Luminaire Tested: **GLEON-AF-09-LED-E1-T3-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-T3-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56470.7 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 575
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

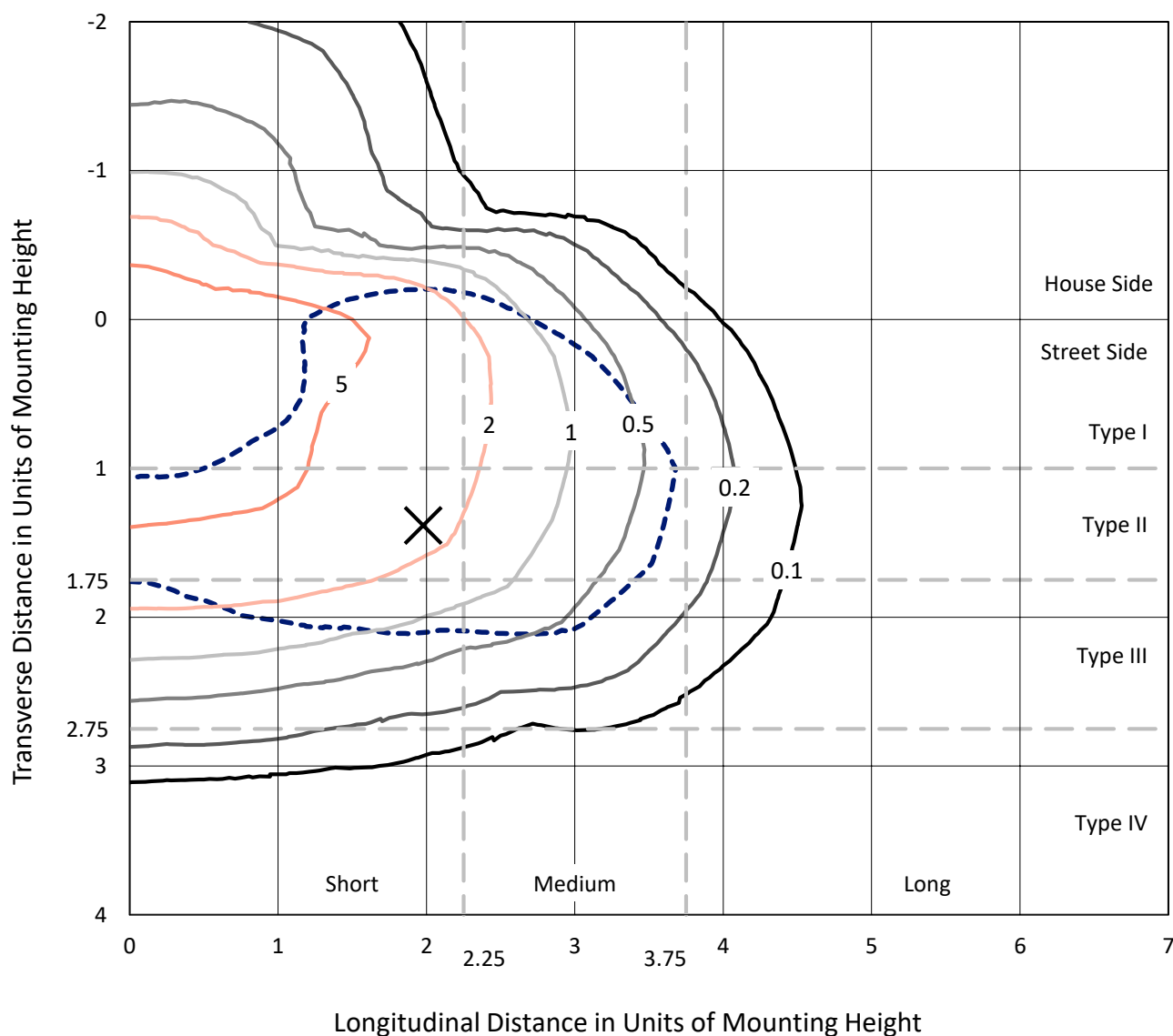


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

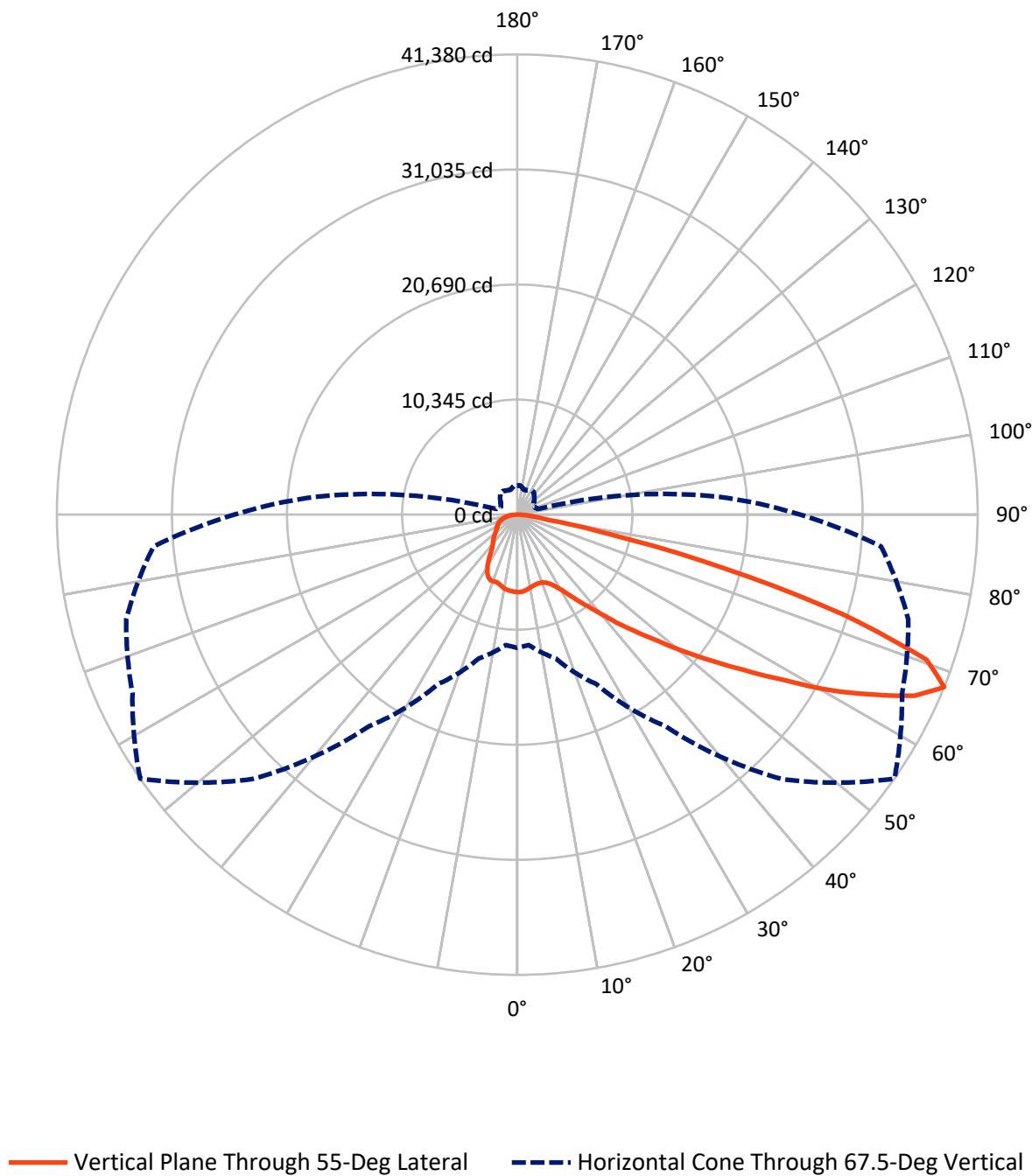


Based on 30 foot mounting height. Maximum calculated value = 8 fc
Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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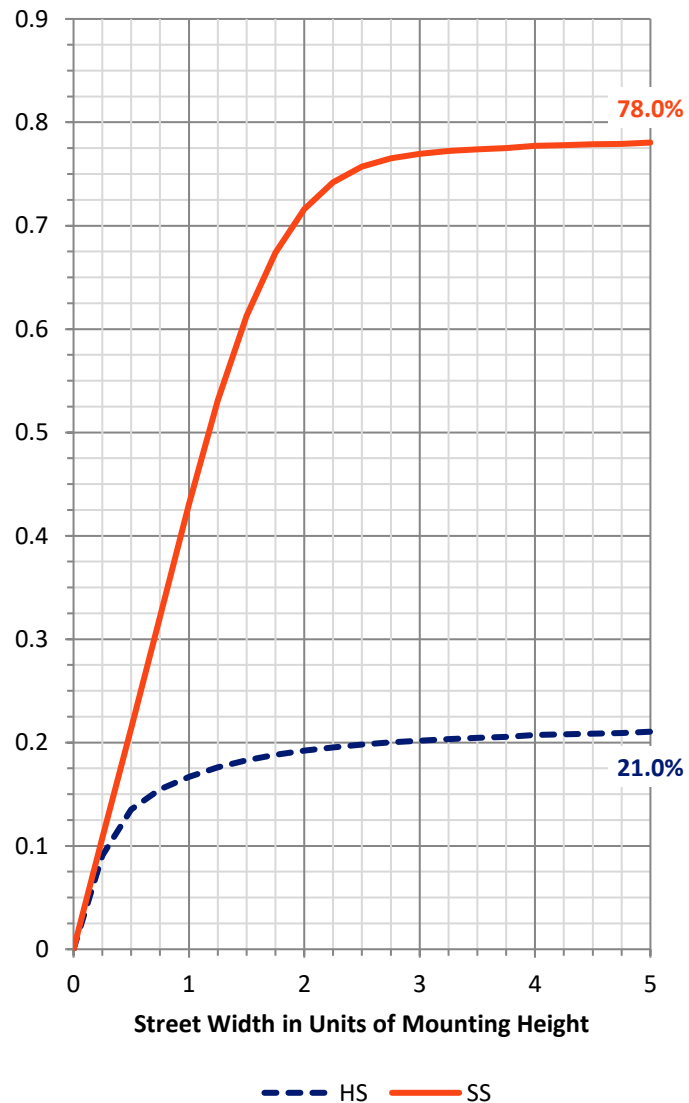
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12198.9	0.0	12198.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	44271.8	0.0	44271.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	56470.7	0.0	56470.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.0	1.2
10°-20°	1840.8	3.3
20°-30°	3083.6	5.5
30°-40°	5070.7	9.0
40°-50°	8535.6	15.1
50°-60°	13434.3	23.8
60°-70°	16032.4	28.4
70°-80°	6884.6	12.2
80°-90°	938.7	1.7
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°	56470.7	100.0
0°-180°	56470.7	100.0

Coefficient of Utilization



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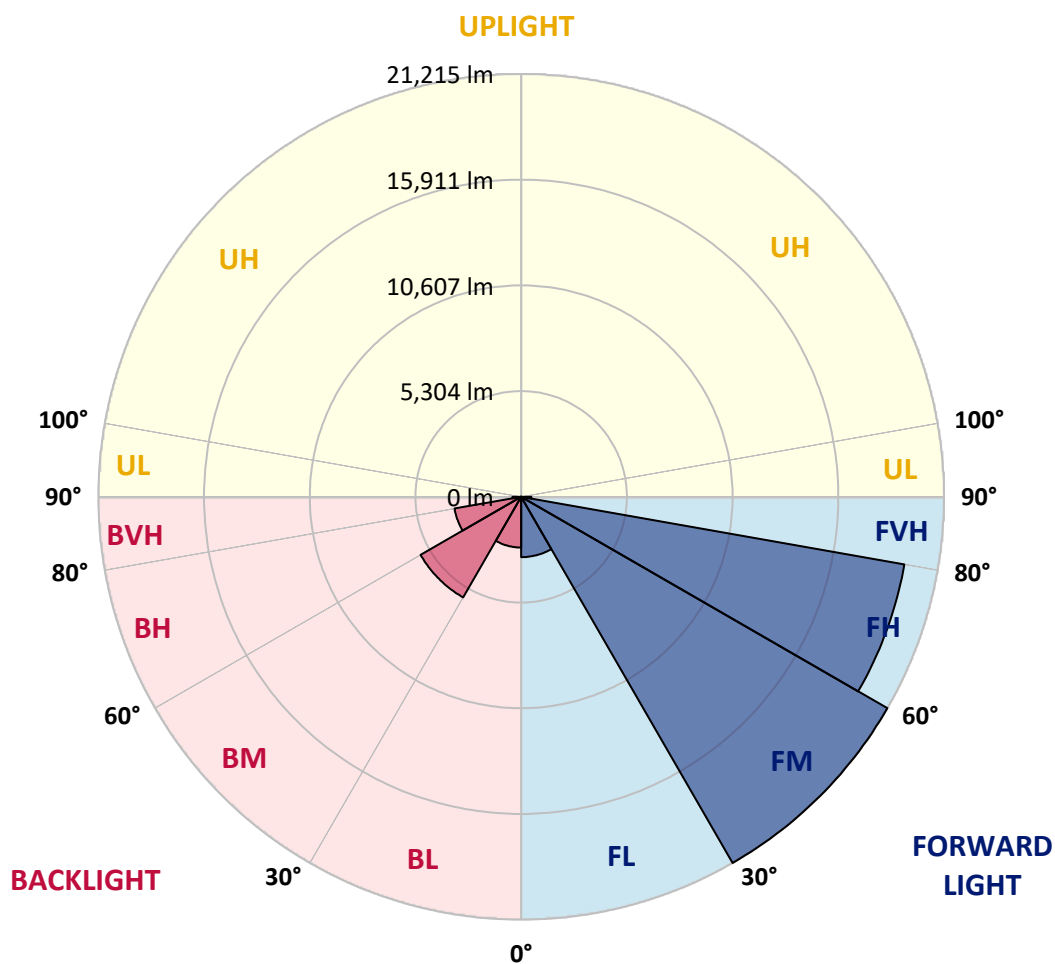
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3027.0	5.4			
FM	(30°-60°)	21214.6	37.6			
FH	(60°-80°)	19522.2	34.6			G5
FVH	(80°-90°)	508.1	0.9			G4/750
BL	(0°-30°)	2547.4	4.5	B4/5000		
BM	(30°-60°)	5826.1	10.3	B4/8500		
BH	(60°-80°)	3394.9	6.0	B4/5000		G4/5000
BVH	(80°-90°)	430.5	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6963.4	6963.4	6963.4	6963.4	6963.4	6963.4	6963.4	6963.4	6963.4	6963.4	6963.4
2.5°	6903.4	6906.2	6911.6	6933.5	6952.5	6947.0	6949.8	6938.9	6936.3	6919.8	6936.3
5°	6816.1	6824.4	6827.1	6862.6	6884.3	6889.8	6881.5	6868.0	6851.6	6835.3	6843.5
7.5°	6617.1	6638.9	6641.6	6690.7	6726.1	6772.6	6775.2	6778.0	6769.8	6758.9	6775.2
10°	6491.5	6497.0	6494.3	6529.8	6557.0	6608.9	6638.9	6690.7	6712.6	6718.0	6728.8
12.5°	6483.5	6478.0	6469.8	6469.8	6461.6	6483.5	6538.0	6611.6	6663.4	6679.8	6693.4
15°	6570.7	6567.9	6540.7	6499.8	6447.9	6431.5	6478.0	6559.8	6628.0	6663.4	6677.1
17.5°	6767.1	6750.7	6707.1	6614.3	6502.4	6458.9	6464.4	6532.5	6611.6	6657.9	6671.6
20°	7127.1	7127.1	7034.3	6859.9	6660.7	6557.0	6507.9	6548.9	6625.3	6688.0	6707.1
22.5°	7749.0	7754.4	7599.0	7312.6	6977.1	6756.1	6633.4	6625.3	6715.3	6786.2	6808.0
25°	8630.0	8608.2	8389.9	7980.9	7470.8	7105.2	6892.5	6843.5	6919.8	6998.9	7026.1
27.5°	9655.6	9576.5	9317.3	8823.7	8163.6	7628.9	7301.7	7222.6	7296.3	7386.3	7413.5
30°	10670.1	10588.4	10280.2	9740.1	9006.4	8329.9	7860.7	7732.6	7836.3	7964.5	7980.9
32.5°	11684.8	11684.8	11341.2	10711.1	9911.9	9167.3	8605.5	8452.8	8624.5	8780.0	8815.5
35°	12898.6	12904.1	12571.3	11813.0	10953.9	10165.6	9546.4	9434.6	9693.7	9802.8	9887.4
37.5°	14390.5	14420.6	13992.4	13075.9	12134.9	11305.7	10569.3	10416.6	10675.6	10972.9	11245.7
40°	16002.5	16040.8	15568.9	14439.7	13498.7	12631.4	11834.9	11559.4	11990.3	12557.7	12909.5
42.5°	17540.9	17737.2	17281.7	16119.9	15108.0	14210.6	13403.2	13002.3	13542.3	14398.7	14704.2
45°	19763.9	19905.7	19111.9	18059.1	17107.3	16103.5	15034.3	14611.5	15367.1	16447.2	16509.8
47.5°	21244.9	21138.5	20734.9	20080.2	19477.4	18539.2	16929.9	16466.3	17470.0	18741.0	18389.2
50°	22033.2	22065.9	22011.4	22049.5	22071.4	21482.2	19253.7	18618.4	19815.7	21351.3	20541.2
52.5°	22769.6	22551.4	22731.4	23626.1	24706.1	24488.0	21782.3	21119.5	22330.5	24248.0	22815.9
55°	22753.2	22420.5	23006.9	24586.2	26929.1	27180.1	24621.7	23858.0	24989.9	27354.7	25227.2
57.5°	21948.6	21965.1	22867.9	24935.2	28478.4	29711.3	27916.5	26770.9	27810.2	30502.2	27428.3
60°	20841.2	20991.2	22292.2	24878.0	29719.4	31786.9	31958.8	29910.4	30573.2	33363.4	29250.4
62.5°	19054.7	19212.9	21007.6	24283.4	29531.2	33786.2	35613.7	33472.5	33461.6	35098.2	29784.9
65°	16237.1	16190.8	18075.6	22060.4	27952.1	35264.5	39244.1	36551.9	35638.1	35125.4	28710.3
67.5°	11973.9	11766.6	13384.1	16801.8	23233.3	33608.9	41379.8	38155.7	36380.2	32815.3	25426.3
70°	6213.3	6006.1	7315.4	9811.1	15279.8	26230.9	39015.0	37326.6	34740.8	27507.4	19919.4
72.5°	2656.6	2621.1	3153.0	4304.0	7391.7	15129.7	30592.3	32307.9	29809.4	20494.9	13695.1
75°	1786.5	1775.7	1974.8	2345.7	3324.9	6139.8	19144.7	22933.3	21809.6	12707.7	7702.7
77.5°	1402.1	1388.3	1505.6	1685.7	2154.8	2422.1	8496.3	12312.2	11395.7	5531.5	3371.3
80°	1096.5	1085.6	1159.2	1257.3	1549.3	1527.5	2795.7	4898.6	3791.3	2119.3	1639.2
82.5°	864.7	864.7	924.7	927.4	1099.2	1041.9	1459.2	2157.6	1892.9	1235.6	1003.8
85°	791.0	791.0	853.8	692.8	717.4	657.3	905.5	1279.2	1200.1	507.3	436.4
87.5°	398.2	387.4	717.4	613.7	390.0	349.1	441.9	619.2	665.5	280.9	218.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6963.4	6963.4	6963.4	6963.4	6963.4	6963.4	6963.4	6963.4	6963.4	6963.4
2.5°	6930.8	6928.0	6933.5	6936.3	6957.9	6988.0	7001.7	7020.7	7031.6	7026.1
5°	6848.9	6854.4	6876.1	6892.5	6930.8	6979.8	7007.2	7028.8	7048.0	7039.8
7.5°	6780.7	6794.3	6827.1	6840.7	6862.6	6876.1	6873.4	6881.5	6898.0	6878.9
10°	6742.5	6758.9	6783.5	6764.4	6712.6	6638.9	6570.7	6535.3	6546.2	6532.5
12.5°	6704.3	6726.1	6707.1	6617.1	6472.5	6377.0	6325.2	6330.7	6355.2	6360.6
15°	6682.6	6690.7	6608.9	6439.7	6292.5	6278.8	6306.1	6300.7	6303.3	6303.3
17.5°	6682.6	6660.7	6507.9	6338.7	6276.1	6251.6	6167.0	6060.6	6014.2	5997.9
20°	6718.0	6660.7	6475.2	6363.4	6227.0	6017.0	5793.4	5597.0	5509.6	5485.2
22.5°	6824.4	6726.1	6567.9	6374.3	5987.0	5635.1	5280.5	5046.0	4887.8	4860.5
25°	7039.8	6930.8	6750.7	6229.8	5605.1	5103.3	4699.6	4437.8	4279.5	4257.8
27.5°	7416.2	7345.3	6848.9	5910.6	5097.8	4560.5	4186.9	3984.9	3867.7	3859.5
30°	7983.6	7948.1	6799.7	5438.7	4473.2	4034.1	3854.0	3736.7	3649.5	3646.7
32.5°	8889.2	8602.7	6638.9	4863.2	3903.2	3660.4	3586.8	3515.9	3447.6	3447.6
35°	10053.8	9131.9	6333.4	4246.8	3556.7	3453.1	3360.4	3248.5	3158.4	3153.0
37.5°	11422.9	9459.1	5785.2	3750.5	3393.0	3314.0	3177.6	3011.1	2853.0	2825.8
40°	12805.8	9557.4	5013.3	3445.0	3289.5	3174.8	3008.5	2812.2	2659.4	2651.1
42.5°	14074.2	9369.2	4195.0	3234.8	3185.8	3033.0	2858.4	2684.0	2563.9	2561.1
45°	15138.0	8880.9	3507.7	3035.8	3076.6	2904.8	2749.4	2607.6	2514.8	2495.7
47.5°	16138.9	8190.8	3024.9	2825.8	2967.6	2833.9	2703.0	2569.3	2479.3	2465.8
50°	17300.8	7446.2	2686.6	2621.1	2872.1	2809.4	2741.2	2602.1	2452.1	2435.7
52.5°	18708.4	6802.5	2422.1	2441.2	2798.4	2842.2	2839.4	2694.8	2432.9	2411.2
55°	20279.4	6087.9	2223.0	2293.9	2768.5	2902.2	2863.9	2782.1	2449.4	2416.6
57.5°	21825.8	5253.3	2083.9	2182.0	2724.8	2896.7	2746.7	2629.4	2487.5	2441.2
60°	22985.1	4132.3	1977.5	2083.9	2629.4	2806.7	2618.4	2463.0	2479.3	2443.9
62.5°	23061.5	3193.9	1849.3	1999.3	2484.8	2716.6	2533.9	2389.4	2514.8	2482.1
65°	21705.9	2413.9	1726.6	1898.4	2329.3	2659.4	2452.1	2348.4	2588.5	2553.0
67.5°	18274.6	1942.0	1622.9	1794.7	2173.8	2539.4	2378.5	2310.3	2653.9	2591.2
70°	13193.2	1655.6	1522.0	1669.3	2034.7	2402.9	2313.0	2242.0	2476.6	2378.5
72.5°	8122.7	1434.7	1407.4	1502.9	1928.4	2261.1	2214.8	2113.8	2231.2	2152.1
75°	4055.9	1243.8	1279.2	1339.2	1778.4	2100.2	2051.2	1950.2	1966.5	1950.2
77.5°	1942.0	1063.7	1129.2	1175.6	1584.7	1917.5	1865.6	1762.1	1742.9	1745.6
80°	1230.1	889.2	951.8	984.7	1415.6	1704.8	1652.9	1549.3	1767.5	1639.2
82.5°	769.1	722.8	739.1	799.1	1232.9	1483.7	1415.6	1322.9	1592.9	1260.1
85°	425.4	504.6	526.4	578.2	949.1	1241.0	1172.9	1055.6	946.5	930.2
87.5°	253.7	300.0	308.2	346.4	638.3	897.3	793.8	752.8	624.6	621.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)