

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: P193126

Luminaire Tested: **GLEON-AF-08-LED-E1-T2-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193126
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-T2-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49668.2 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 511
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



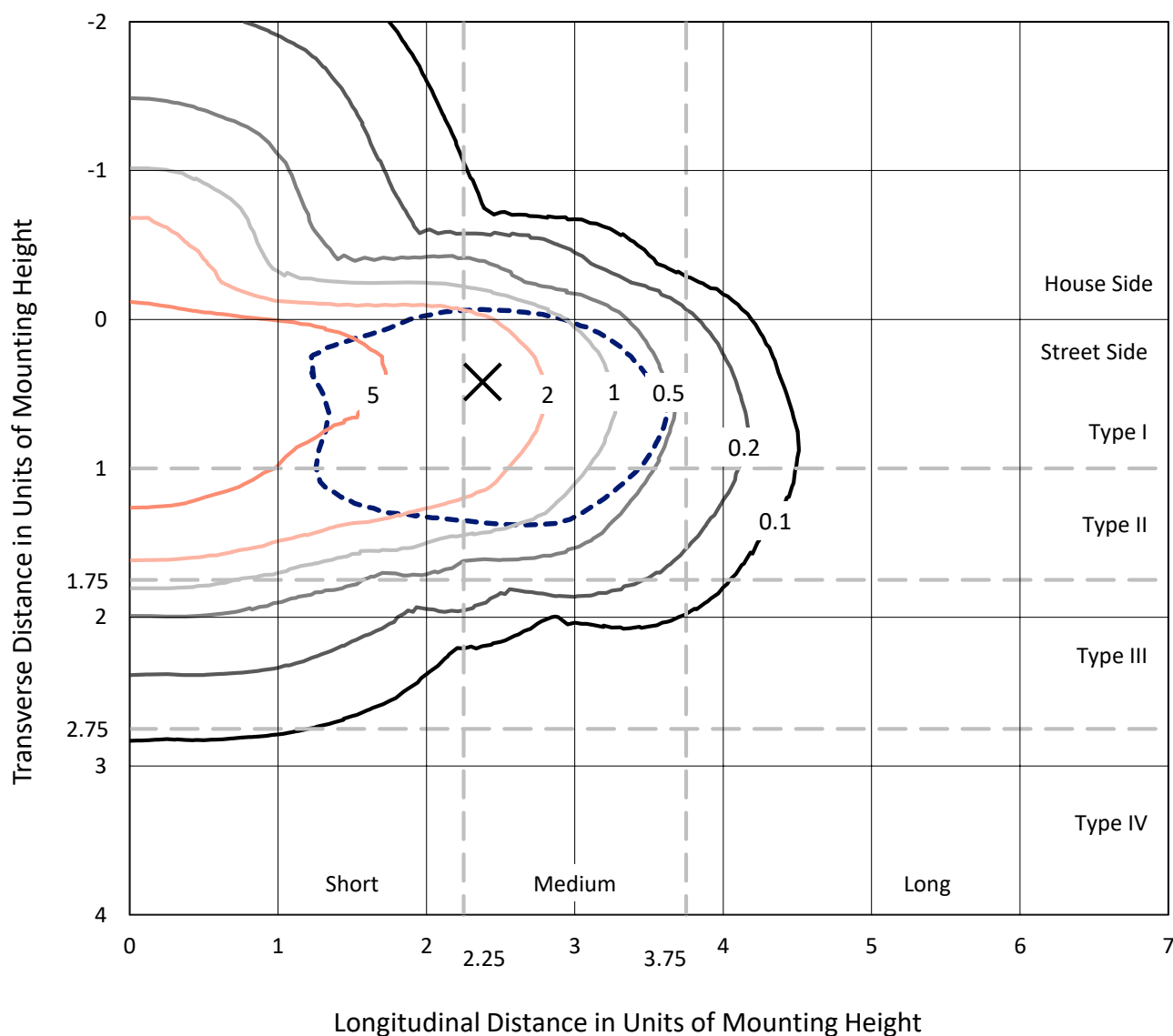
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

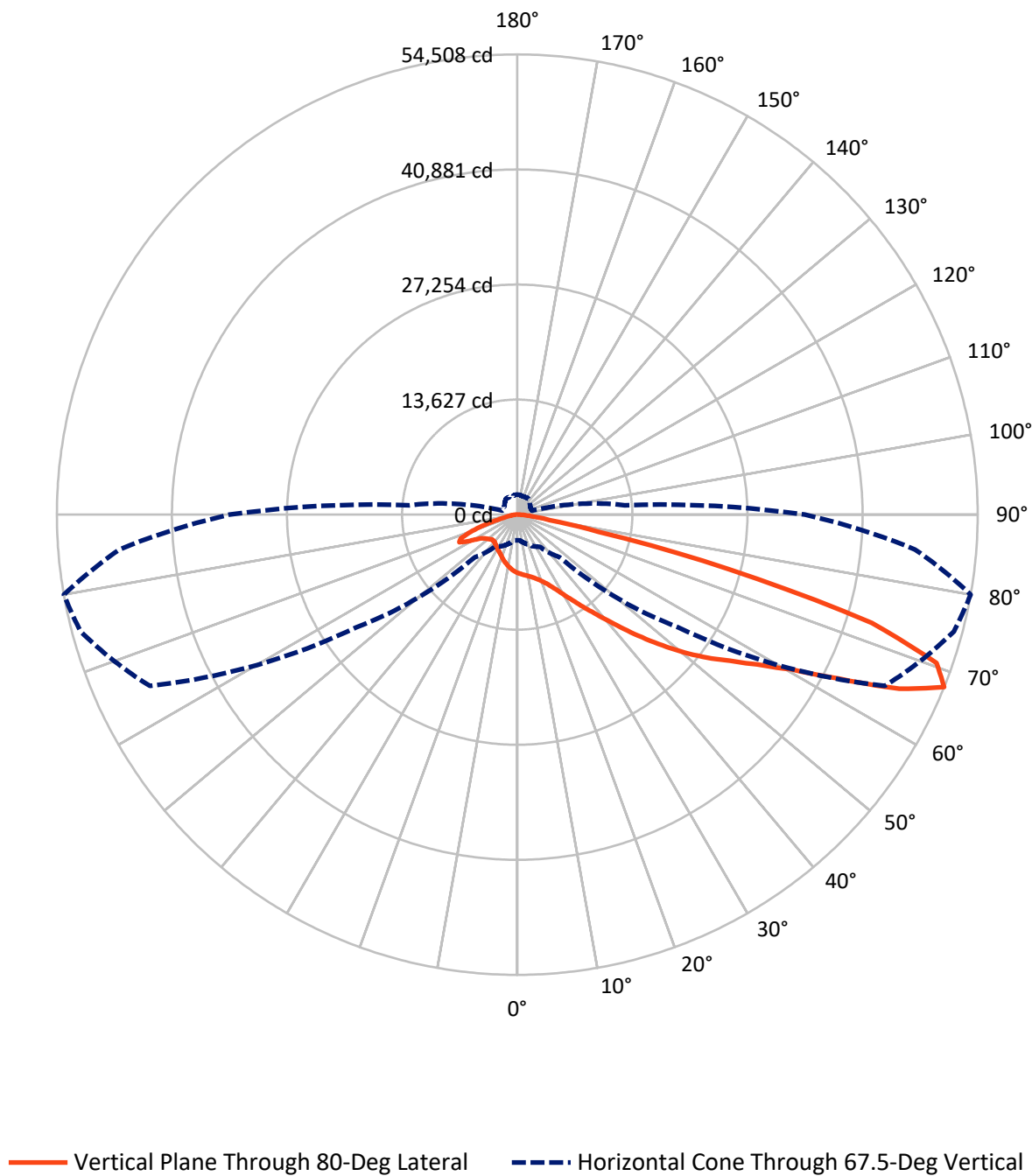


Based on 30 foot mounting height. Maximum calculated value = 9.3 fc
Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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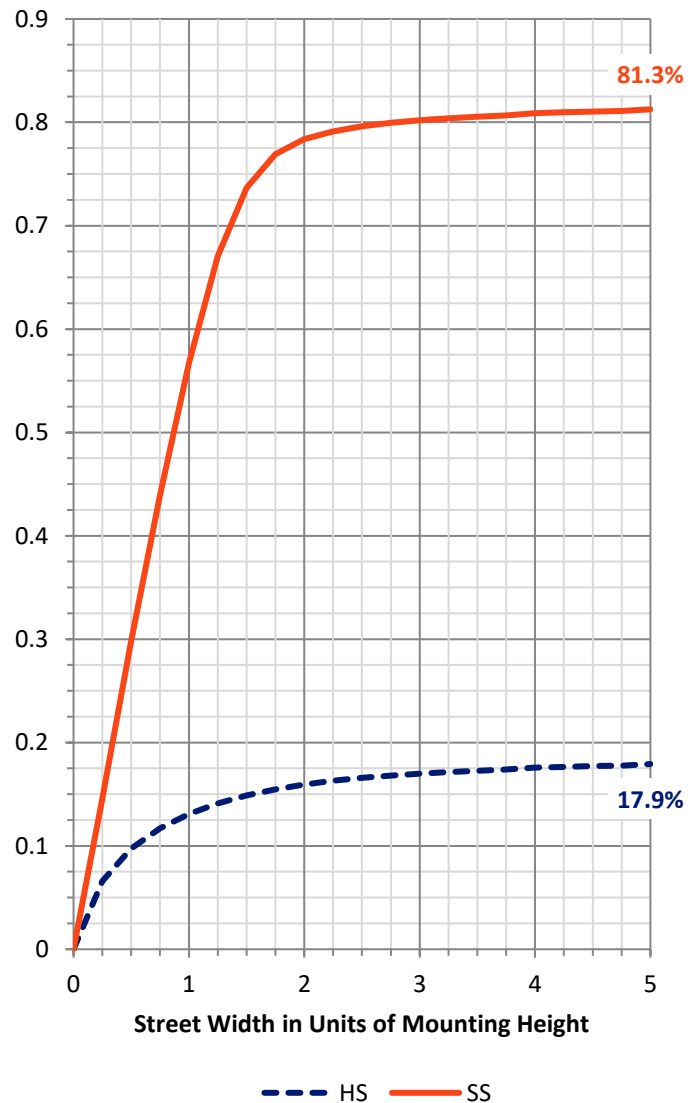
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9147.0	0.0	9147.0
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	40521.2	0.0	40521.2
	% Fixture	81.6	0.0	81.6
Total	Lumens	49668.2	0.0	49668.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	636.5	1.3
10°-20°	1833.6	3.7
20°-30°	3035.1	6.1
30°-40°	4964.6	10.0
40°-50°	8015.9	16.1
50°-60°	11572.6	23.3
60°-70°	12771.0	25.7
70°-80°	5886.6	11.9
80°-90°	952.1	1.9
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°	49668.2	100.0
0°-180°	49668.2	100.0

Coefficient of Utilization



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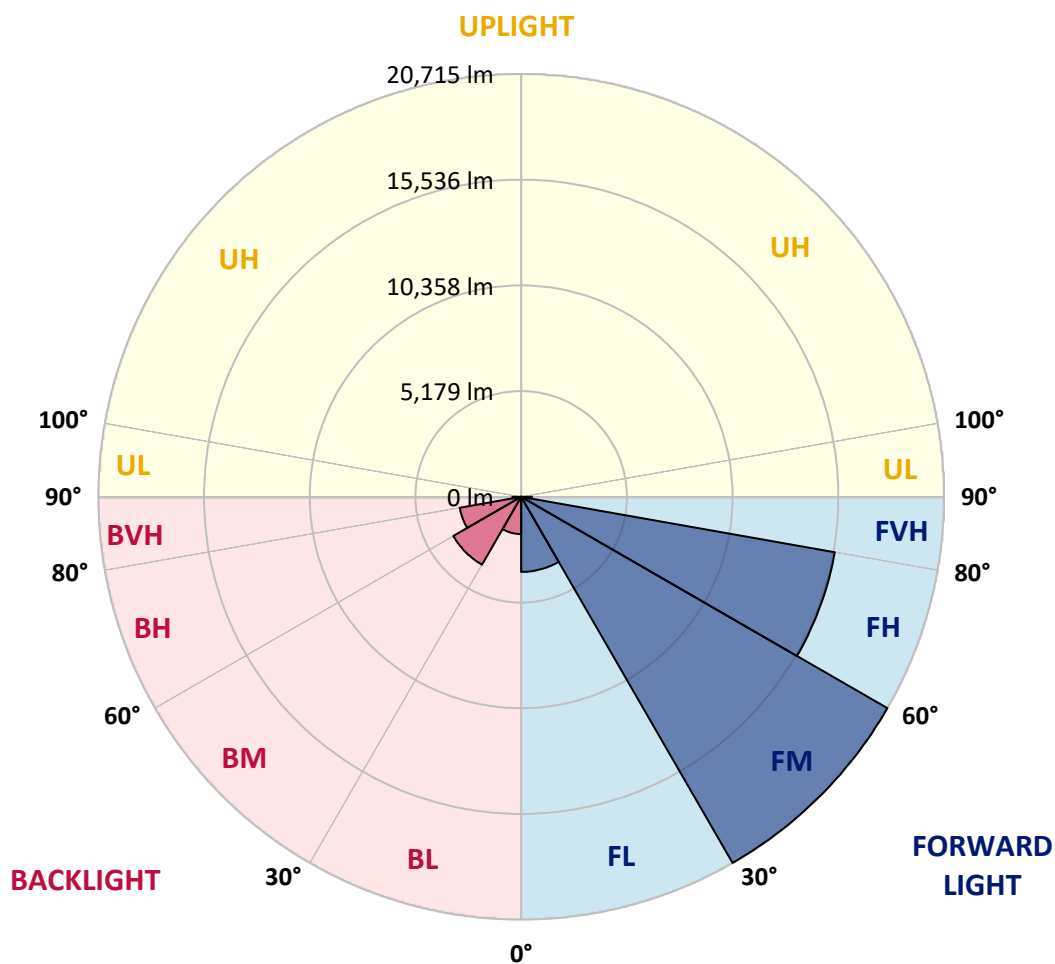
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3680.3	7.4			
FM	(30°-60°)	20715.3	41.7			
FH	(60°-80°)	15602.1	31.4			G5
FVH	(80°-90°)	523.5	1.1			G4/750
BL	(0°-30°)	1824.9	3.7	B3/2500		
BM	(30°-60°)	3837.7	7.7	B3/5000		
BH	(60°-80°)	3055.6	6.2	B4/5000		G4/5000
BVH	(80°-90°)	428.7	0.9			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	6900.4	6900.4	6900.4	6900.4	6900.4	6900.4	6900.4	6900.4	6900.4	6900.4	6900.4
2.5°	7548.2	7504.4	7511.7	7499.4	7462.7	7399.1	7330.7	7205.9	7076.4	7007.9	6954.2
5°	8179.1	8167.0	8149.8	8110.8	8017.8	7885.8	7721.9	7501.8	7264.6	7140.0	7020.1
7.5°	8651.1	8643.8	8621.7	8597.3	8506.8	8348.0	8100.9	7788.0	7443.2	7272.1	7086.2
10°	8690.3	8702.5	8719.6	8785.6	8797.8	8712.3	8460.4	8081.4	7629.0	7409.0	7171.8
12.5°	8357.7	8384.5	8450.6	8619.4	8797.8	8903.0	8773.4	8389.5	7846.7	7580.1	7279.4
15°	7917.6	7932.2	8013.0	8245.2	8565.5	8890.8	9013.1	8729.4	8127.8	7800.2	7440.8
17.5°	7729.3	7736.6	7792.8	7946.9	8245.2	8709.8	9147.5	9098.6	8472.6	8074.0	7638.8
20°	7634.0	7651.0	7731.7	7883.3	8071.6	8477.5	9167.1	9497.2	8883.5	8416.4	7888.2
22.5°	7905.4	7898.1	7927.3	8003.1	8162.1	8406.6	9152.4	9907.9	9406.6	8856.5	8213.4
25°	8538.6	8565.5	8514.1	8428.6	8479.9	8651.1	9230.7	10353.0	10062.0	9421.3	8638.9
27.5°	9440.9	9414.0	9338.2	9137.7	9032.6	9105.8	9489.8	10832.2	10876.2	10164.7	9201.3
30°	10340.8	10318.8	10245.4	10000.8	9785.7	9724.5	9993.5	11382.4	11847.0	11057.1	9890.8
32.5°	11274.8	11250.3	11181.9	10937.4	10678.2	10536.4	10709.9	12018.2	12991.4	12123.3	10702.6
35°	12426.5	12380.0	12235.7	11895.9	11641.6	11531.6	11612.3	12817.7	14311.8	13385.1	11688.0
37.5°	13509.7	13580.6	13434.0	12964.4	12634.3	12595.2	12685.6	13793.3	15734.9	14795.9	12820.2
40°	14597.8	14610.0	14478.1	14094.1	13754.2	13690.6	13918.1	14976.8	17414.8	16483.1	14196.8
42.5°	15722.6	15747.1	15524.5	15170.0	14920.6	14932.8	15192.1	16363.3	19341.5	18471.1	15781.3
45°	17055.3	17092.0	16847.4	16382.9	16155.4	16612.7	16505.1	17918.4	21454.1	20730.5	17600.6
47.5°	18449.1	18505.2	18319.4	17884.2	17600.6	18229.0	17818.2	19642.3	23728.2	23153.5	19598.3
50°	19209.5	19290.2	19471.1	19439.3	19378.2	19273.2	19282.8	21490.9	26073.2	25677.0	21652.2
52.5°	18801.2	18798.7	19458.8	20260.9	21116.7	21180.4	21067.8	23439.7	28264.1	28144.2	23586.4
55°	16933.0	17060.2	18060.2	19612.9	21950.5	23410.3	23742.9	25672.1	30415.8	30555.2	25549.8
57.5°	13822.7	13927.9	15277.6	17441.6	20825.8	24735.6	27547.6	28916.9	32821.9	33472.3	28163.8
60°	9374.9	9502.1	10932.5	13531.8	17798.7	23997.1	31168.9	34707.2	35702.3	37181.7	31831.6
62.5°	5509.1	5624.0	6790.4	8536.2	12531.6	20566.5	32758.3	42945.0	40277.4	42778.8	37426.2
65°	3792.5	3870.7	4438.0	5313.4	7201.1	13852.1	30787.5	48632.6	47317.0	49713.4	43913.4
67.5°	3051.6	3041.8	3491.7	4088.4	4636.1	7142.4	23280.8	47989.5	53508.3	54508.4	47280.5
70°	2513.6	2503.9	2809.5	3303.5	3704.4	4022.4	12680.8	40497.4	52246.5	52652.5	44179.8
72.5°	2102.9	2112.6	2308.3	2675.0	3039.4	3029.6	5572.7	28489.1	41101.3	43908.4	35218.2
75°	1775.3	1780.1	1909.8	2168.9	2467.2	2440.3	3022.2	15434.1	23892.0	25845.8	19522.5
77.5°	1511.2	1516.0	1599.1	1743.4	1956.2	1946.4	2205.6	6668.1	9966.6	9844.4	6677.8
80°	1347.2	1347.2	1386.4	1413.4	1530.7	1486.7	1635.8	3203.3	4213.0	3890.2	2665.3
82.5°	1056.3	1061.2	1300.8	1291.1	1205.4	1149.3	1149.3	1887.7	2232.5	2063.8	1560.0
85°	594.2	591.7	838.7	1012.3	1061.2	809.4	802.1	1056.3	1215.3	1071.0	755.5
87.5°	254.2	259.2	388.8	449.9	601.5	503.6	496.4	545.3	618.6	535.5	349.6
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°	6900.4	6900.4	6900.4	6900.4	6900.4	6900.4	6900.4	6900.4	6900.4	6900.4	6900.4
2.5°	6902.8	6839.2	6699.9	6526.3	6369.7	6267.0	6174.1	6039.7	6047.0	5954.1	5885.6
5°	6897.9	6765.9	6443.1	6059.2	5690.0	5423.4	5222.9	5042.0	4997.9	4912.4	4861.1
7.5°	6902.8	6687.6	6144.7	5531.0	5073.8	4736.4	4565.2	4469.8	4447.8	4418.5	4420.9
10°	6919.9	6616.7	5817.2	5037.1	4557.9	4335.3	4293.8	4323.1	4357.4	4367.1	4369.6
12.5°	6959.0	6553.2	5457.7	4597.0	4235.1	4166.6	4237.5	4337.8	4403.8	4435.6	4433.2
15°	7047.1	6504.2	5112.9	4252.2	4056.6	4093.3	4225.3	4367.1	4462.4	4506.5	4508.9
17.5°	7142.4	6433.3	4758.3	3988.1	3924.6	4017.5	4181.3	4347.5	4464.9	4513.8	4523.7
20°	7267.2	6345.3	4386.6	3790.1	3799.8	3905.0	4059.0	4225.3	4354.8	4396.5	4416.0
22.5°	7430.9	6249.9	4061.5	3628.7	3658.0	3738.8	3858.5	4002.8	4115.2	4134.8	4152.0
25°	7651.0	6147.3	3802.3	3482.0	3494.2	3540.6	3621.3	3706.9	3785.2	3763.1	3780.3
27.5°	7946.9	6059.2	3609.2	3347.4	3325.6	3335.2	3376.7	3403.8	3445.3	3384.2	3391.5
30°	8294.1	5963.8	3459.9	3230.1	3168.9	3151.9	3161.6	3176.2	3208.1	3125.0	3112.7
32.5°	8697.6	5848.8	3320.6	3127.4	3041.8	3007.6	3012.5	3051.6	3173.9	3122.5	3095.7
35°	9167.1	5719.2	3173.9	3014.9	2956.2	2907.4	2902.5	3024.8	3389.0	3357.2	3332.9
37.5°	9717.2	5589.7	3027.1	2887.8	2892.6	2838.9	2821.7	2961.2	3430.6	3305.8	3288.8
40°	10416.6	5521.3	2902.5	2753.4	2814.4	2807.1	2772.9	2843.8	3156.7	2929.3	2900.0
42.5°	11282.1	5531.0	2809.5	2609.0	2721.5	2799.8	2746.0	2748.4	2860.9	2689.8	2662.8
45°	12350.6	5646.0	2743.5	2494.1	2616.3	2792.4	2736.2	2697.1	2706.8	2616.3	2601.7
47.5°	13597.8	5883.2	2697.1	2398.8	2516.1	2765.6	2733.7	2682.5	2660.4	2611.6	2599.3
50°	14984.2	6227.9	2662.8	2308.3	2425.7	2721.5	2736.2	2667.7	2643.3	2623.8	2616.3
52.5°	16346.2	6621.5	2611.6	2230.0	2354.7	2667.7	2743.5	2653.1	2626.1	2611.6	2604.0
55°	17864.7	7113.1	2533.1	2164.0	2296.1	2599.3	2743.5	2631.1	2601.7	2604.0	2601.7
57.5°	19916.1	7907.7	2440.3	2107.7	2225.2	2516.1	2697.1	2606.6	2569.9	2572.4	2574.8
60°	23121.8	9308.9	2327.9	2051.6	2137.1	2418.4	2633.4	2552.9	2516.1	2525.8	2528.4
62.5°	27836.2	11365.2	2181.2	1968.5	2044.2	2313.1	2545.4	2484.3	2447.6	2472.1	2472.1
65°	32736.4	13179.6	2000.2	1863.2	1946.4	2198.2	2435.4	2398.8	2362.0	2418.4	2415.8
67.5°	34054.3	12773.7	1819.2	1748.3	1848.5	2071.1	2303.4	2283.8	2264.3	2362.0	2357.2
70°	30252.0	10255.2	1653.0	1630.9	1740.9	1934.1	2161.5	2161.5	2149.3	2222.7	2205.6
72.5°	23048.5	7272.1	1494.0	1506.2	1618.6	1785.0	2007.5	2024.6	2005.0	2041.7	2027.1
75°	12338.4	4161.6	1335.0	1369.3	1467.2	1633.4	1836.3	1853.5	1841.2	1838.9	1846.2
77.5°	4100.6	2034.4	1168.8	1222.6	1308.2	1476.8	1657.8	1684.8	1655.4	1650.5	1648.0
80°	1826.6	1278.9	985.4	1056.3	1132.2	1298.4	1469.5	1491.6	1459.8	1503.9	1447.5
82.5°	1173.7	841.2	789.8	868.1	941.4	1119.9	1281.3	1286.2	1256.8	1459.8	1244.6
85°	569.7	520.8	594.2	665.1	728.6	880.3	1061.2	1063.6	990.3	902.3	870.5
87.5°	283.6	303.2	396.2	459.7	491.4	603.9	772.7	758.0	726.2	660.3	608.9
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)