

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: P194798

Luminaire Tested: **GLEON-AF-10-LED-E1-T3-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194798
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-10-LED-E1-T3-7060
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58930 lumens
Efficiency: N/A
Efficacy: 105.6 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): 558
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



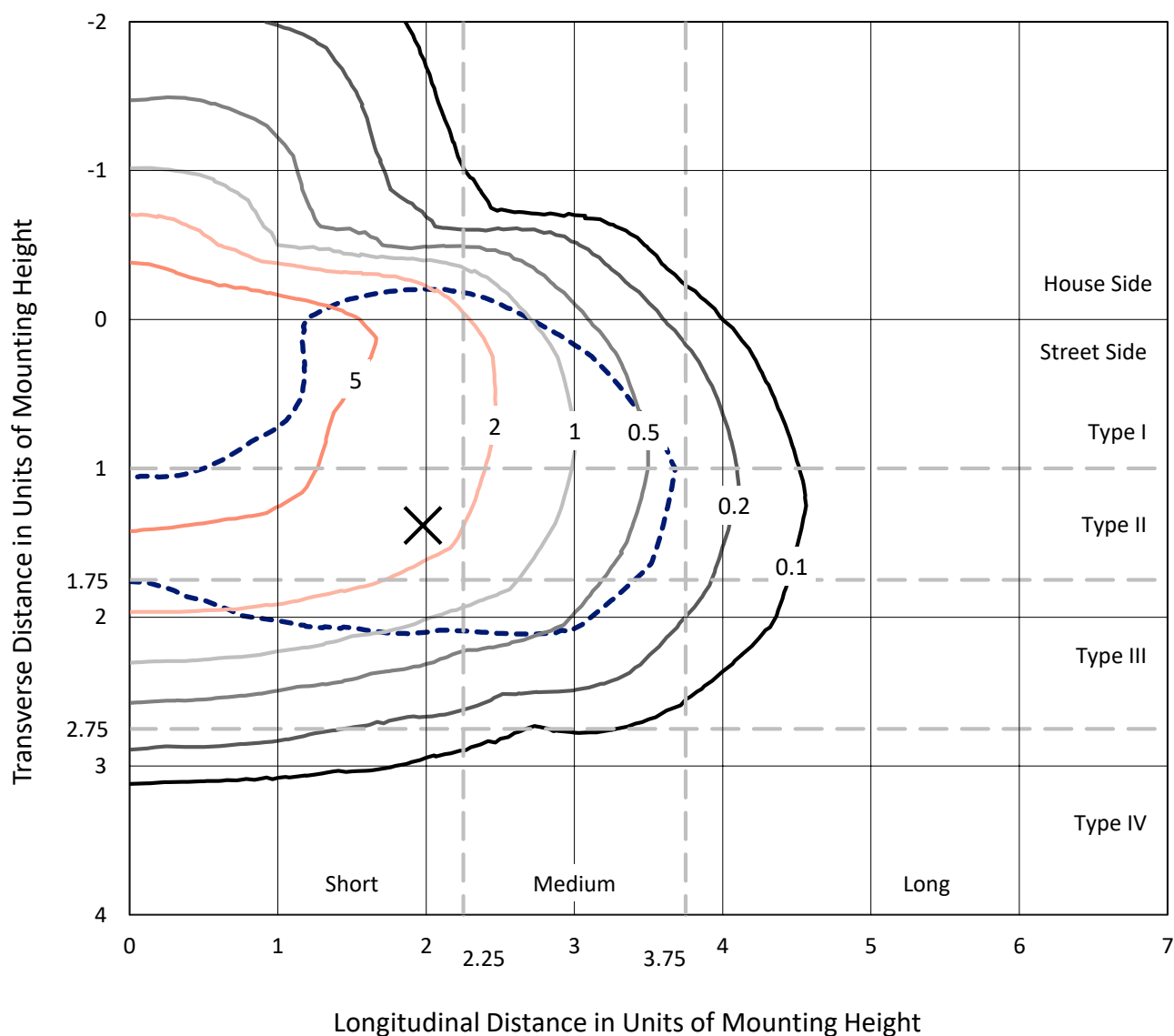
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

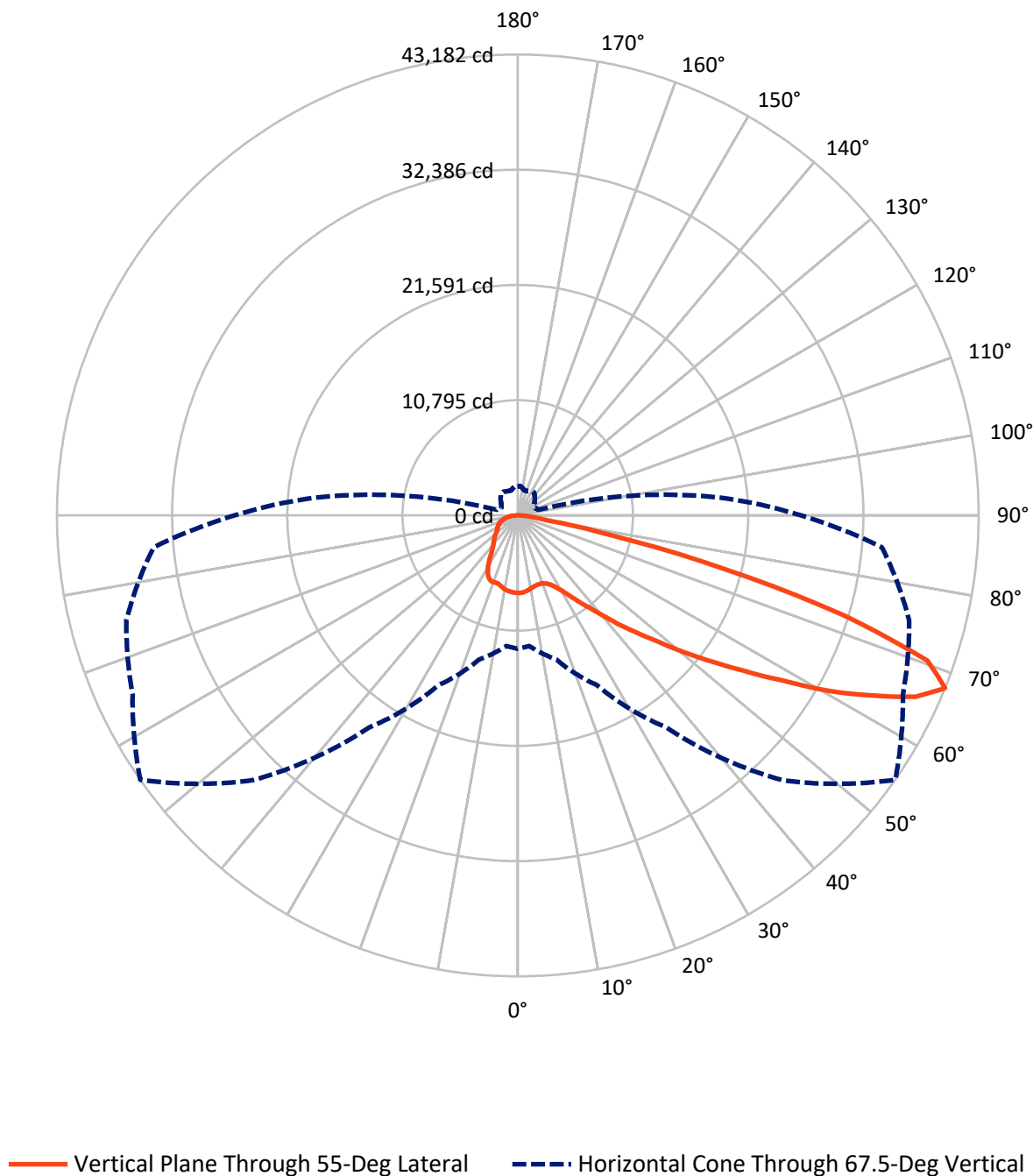


Based on 30 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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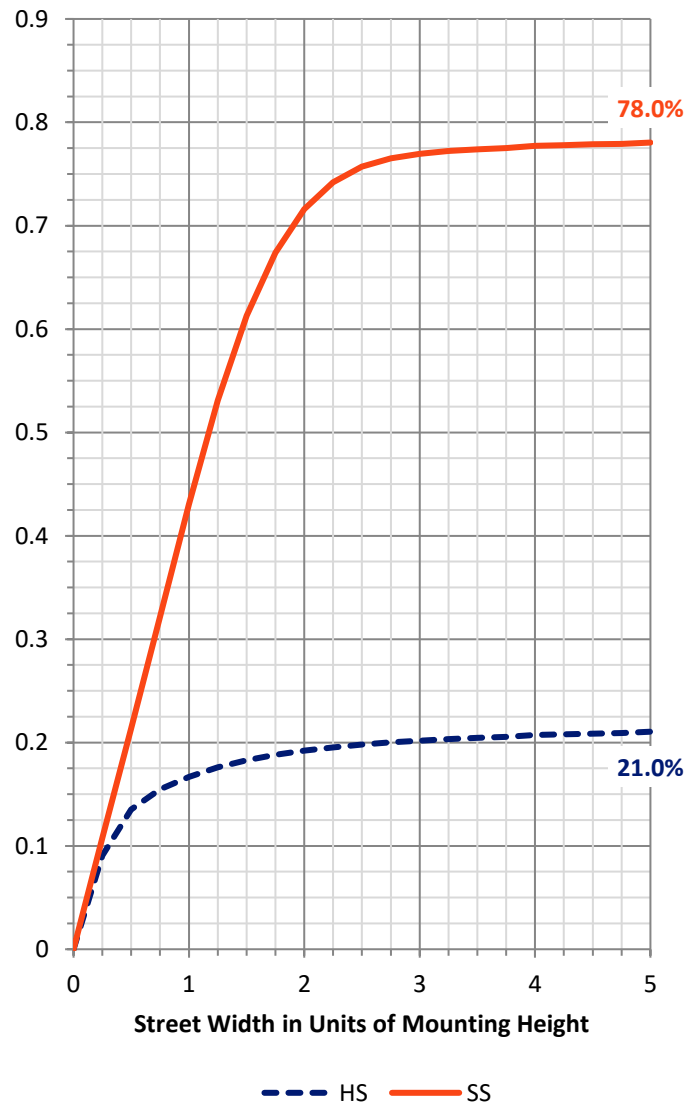
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12730.1	0.0	12730.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	46199.9	0.0	46199.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	58930.0	0.0	58930.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	678.3	1.2
10°-20°	1921.0	3.3
20°-30°	3217.9	5.5
30°-40°	5291.5	9.0
40°-50°	8907.3	15.1
50°-60°	14019.4	23.8
60°-70°	16730.7	28.4
70°-80°	7184.5	12.2
80°-90°	979.5	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°	58930.0	100.0
0°-180°	58930.0	100.0

Coefficient of Utilization



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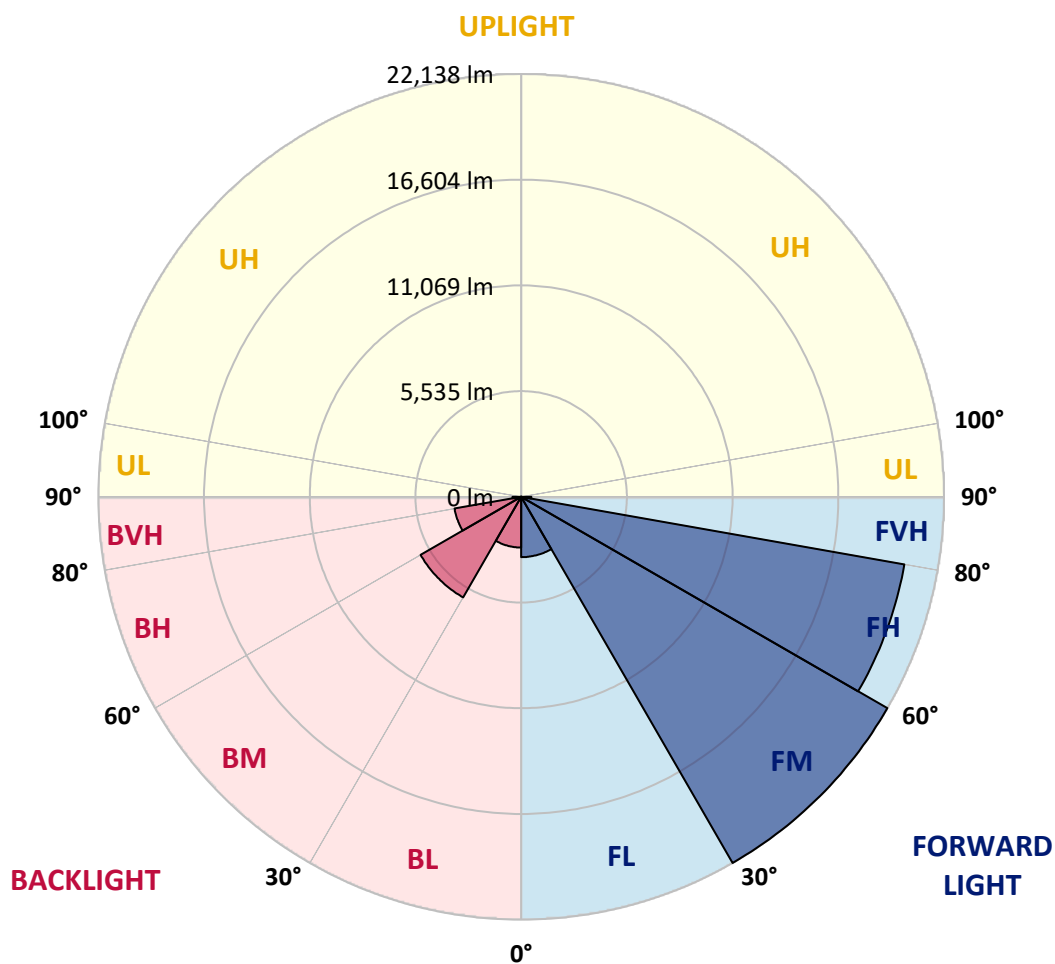
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3158.8	5.4			
FM	(30°-60°)	22138.5	37.6			
FH	(60°-80°)	20372.4	34.6			G5
FVH	(80°-90°)	530.2	0.9			G4/750
BL	(0°-30°)	2658.3	4.5	B4/5000		
BM	(30°-60°)	6079.8	10.3	B4/8500		
BH	(60°-80°)	3542.7	6.0	B4/5000		G4/5000
BVH	(80°-90°)	449.3	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°	7266.7	7266.7	7266.7	7266.7	7266.7	7266.7	7266.7	7266.7	7266.7	7266.7	7266.7
2.5°	7204.1	7206.9	7212.6	7235.4	7255.3	7249.6	7252.5	7241.1	7238.2	7221.2	7238.2
5°	7113.0	7121.5	7124.4	7161.4	7184.2	7189.9	7181.3	7167.1	7150.0	7132.9	7141.5
7.5°	6905.2	6928.0	6930.8	6982.1	7019.1	7067.5	7070.3	7073.2	7064.6	7053.2	7070.3
10°	6774.3	6780.0	6777.1	6814.1	6842.6	6896.7	6928.0	6982.1	7004.8	7010.5	7021.9
12.5°	6765.8	6760.1	6751.5	6751.5	6743.0	6765.8	6822.7	6899.5	6953.6	6970.7	6984.9
15°	6856.8	6854.0	6825.5	6782.8	6728.8	6711.7	6760.1	6845.5	6916.6	6953.6	6967.8
17.5°	7061.8	7044.7	6999.2	6902.4	6785.7	6740.1	6745.8	6817.0	6899.5	6947.9	6962.2
20°	7437.5	7437.5	7340.7	7158.6	6950.8	6842.6	6791.4	6834.1	6913.8	6979.2	6999.2
22.5°	8086.5	8092.2	7929.9	7631.0	7280.9	7050.4	6922.3	6913.8	7007.7	7081.7	7104.5
25°	9005.8	8983.1	8755.3	8328.4	7796.1	7414.7	7192.7	7141.5	7221.2	7303.7	7332.2
27.5°	10076.1	9993.5	9723.1	9207.9	8519.1	7961.2	7619.7	7537.1	7614.0	7707.9	7736.4
30°	11134.9	11049.5	10727.9	10164.3	9398.6	8692.7	8203.2	8069.4	8177.5	8311.3	8328.4
32.5°	12193.7	12193.7	11835.1	11177.6	10343.6	9566.6	8980.2	8820.8	9000.1	9162.4	9199.4
35°	13460.4	13466.0	13118.8	12327.5	11430.9	10608.3	9962.2	9845.5	10115.9	10229.8	10318.0
37.5°	15017.3	15048.6	14601.7	13645.4	12663.4	11798.1	11029.6	10870.2	11140.6	11450.8	11735.5
40°	16699.5	16739.3	16246.9	15068.5	14086.5	13181.4	12350.3	12062.8	12512.5	13104.6	13471.7
42.5°	18304.8	18509.8	18034.4	16821.9	15765.9	14829.4	13986.9	13568.5	14132.1	15025.8	15344.6
45°	20624.6	20772.6	19944.3	18845.6	17852.3	16804.8	15689.0	15247.9	16036.3	17163.4	17228.9
47.5°	22170.2	22059.2	21637.9	20954.8	20325.7	19346.6	17667.2	17183.4	18230.8	19557.2	19190.0
50°	22992.8	23026.9	22970.0	23009.8	23032.6	22417.8	20092.3	19429.1	20678.7	22281.2	21435.8
52.5°	23761.3	23533.6	23721.4	24655.0	25782.2	25554.5	22730.9	22039.2	23303.0	25304.0	23809.7
55°	23744.2	23396.9	24008.9	25656.9	28101.9	28363.8	25693.9	24897.0	26078.2	28546.0	26325.8
57.5°	22904.5	22921.6	23863.7	26021.3	29718.7	31005.2	29132.3	27936.9	29021.3	31830.6	28622.8
60°	21748.9	21905.5	23263.2	25961.5	31013.7	33171.3	33350.6	31213.0	31904.7	34816.5	30524.2
62.5°	19884.5	20049.6	21922.5	25341.0	30817.4	35257.6	37164.7	34930.3	34918.9	36626.7	31082.1
65°	16944.3	16895.9	18862.7	23021.2	29169.3	36800.4	40953.2	38143.8	37190.3	36655.2	29960.6
67.5°	12495.4	12279.1	13967.0	17533.5	24245.1	35072.6	43181.9	39817.5	37964.5	34244.3	26533.6
70°	6484.0	6267.6	7633.9	10238.3	15945.2	27373.3	40714.1	38952.2	36253.9	28705.4	20786.8
72.5°	2772.3	2735.3	3290.4	4491.5	7713.6	15788.7	31924.6	33714.9	31107.7	21387.4	14291.5
75°	1864.4	1853.0	2060.8	2447.9	3469.7	6407.1	19978.5	23932.0	22759.4	13261.1	8038.1
77.5°	1463.0	1448.8	1571.2	1759.0	2248.6	2527.6	8866.4	12848.4	11892.0	5772.4	3518.1
80°	1144.2	1132.8	1209.7	1312.2	1616.7	1594.0	2917.5	5112.0	3956.4	2211.6	1710.7
82.5°	902.3	902.3	964.9	967.8	1147.1	1087.3	1522.8	2251.5	1975.4	1289.4	1047.5
85°	825.4	825.4	890.9	723.0	748.6	686.0	945.0	1334.9	1252.4	529.4	455.4
87.5°	415.6	404.2	748.6	640.4	407.0	364.3	461.1	646.1	694.5	293.2	227.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7266.7	7266.7	7266.7	7266.7	7266.7	7266.7	7266.7	7266.7	7266.7	7266.7
2.5°	7232.6	7229.7	7235.4	7238.2	7261.0	7292.3	7306.6	7326.5	7337.9	7332.2
5°	7147.2	7152.9	7175.6	7192.7	7232.6	7283.8	7312.3	7335.0	7354.9	7346.4
7.5°	7076.0	7090.2	7124.4	7138.6	7161.4	7175.6	7172.8	7181.3	7198.4	7178.5
10°	7036.2	7053.2	7078.9	7058.9	7004.8	6928.0	6856.8	6819.8	6831.2	6817.0
12.5°	6996.3	7019.1	6999.2	6905.2	6754.4	6654.7	6600.7	6606.4	6632.0	6637.7
15°	6973.5	6982.1	6896.7	6720.2	6566.5	6552.3	6580.7	6575.1	6577.9	6577.9
17.5°	6973.5	6950.8	6791.4	6614.9	6549.4	6523.8	6435.6	6324.6	6276.2	6259.1
20°	7010.5	6950.8	6757.2	6640.5	6498.2	6279.0	6045.6	5840.7	5749.6	5724.0
22.5°	7121.5	7019.1	6854.0	6651.9	6247.7	5880.5	5510.5	5265.7	5100.6	5072.2
25°	7346.4	7232.6	7044.7	6501.0	5849.2	5325.5	4904.2	4631.0	4465.9	4443.1
27.5°	7739.2	7665.2	7147.2	6168.0	5319.8	4759.1	4369.1	4158.5	4036.1	4027.6
30°	8331.2	8294.2	7095.9	5675.6	4668.0	4209.7	4021.9	3899.5	3808.4	3805.6
32.5°	9276.2	8977.4	6928.0	5075.0	4073.1	3819.8	3742.9	3668.9	3597.8	3597.8
35°	10491.6	9529.6	6609.2	4431.8	3711.6	3603.5	3506.7	3390.0	3296.1	3290.4
37.5°	11920.5	9871.1	6037.1	3913.7	3540.9	3458.3	3316.0	3142.4	2977.3	2948.8
40°	13363.6	9973.6	5231.6	3594.9	3432.7	3313.1	3139.5	2934.6	2775.2	2766.6
42.5°	14687.1	9777.2	4377.7	3375.8	3324.5	3165.1	2983.0	2800.8	2675.6	2672.7
45°	15797.2	9267.7	3660.4	3168.0	3210.7	3031.4	2869.1	2721.1	2624.3	2604.4
47.5°	16841.8	8547.6	3156.6	2948.8	3096.8	2957.3	2820.7	2681.3	2587.3	2573.1
50°	18054.4	7770.5	2803.6	2735.3	2997.2	2931.7	2860.6	2715.4	2558.9	2541.8
52.5°	19523.1	7098.8	2527.6	2547.5	2920.3	2965.9	2963.0	2812.2	2538.9	2516.2
55°	21162.6	6353.0	2319.8	2393.8	2889.0	3028.5	2988.7	2903.3	2556.0	2521.9
57.5°	22776.4	5482.1	2174.6	2277.1	2843.5	3022.8	2866.3	2743.9	2595.9	2547.5
60°	23986.1	4312.2	2063.6	2174.6	2743.9	2928.9	2732.5	2570.2	2587.3	2550.3
62.5°	24065.8	3333.1	1929.8	2086.4	2593.0	2835.0	2644.3	2493.4	2624.3	2590.2
65°	22651.2	2519.0	1801.7	1981.1	2430.8	2775.2	2558.9	2450.7	2701.2	2664.2
67.5°	19070.5	2026.6	1693.6	1872.9	2268.5	2649.9	2482.0	2410.9	2769.5	2704.0
70°	13767.8	1727.7	1588.3	1742.0	2123.4	2507.6	2413.7	2339.7	2584.5	2482.0
72.5°	8476.4	1497.2	1468.7	1568.3	2012.4	2359.6	2311.2	2205.9	2328.3	2245.8
75°	4232.5	1297.9	1334.9	1397.6	1855.8	2191.7	2140.4	2035.1	2052.2	2035.1
77.5°	2026.6	1110.1	1178.4	1226.8	1653.7	2001.0	1946.9	1838.7	1818.8	1821.7
80°	1283.7	927.9	993.4	1027.5	1477.3	1779.0	1724.9	1616.7	1844.4	1710.7
82.5°	802.7	754.3	771.4	834.0	1286.5	1548.4	1477.3	1380.5	1662.3	1315.0
85°	444.0	526.6	549.3	603.4	990.5	1295.1	1223.9	1101.5	987.7	970.6
87.5°	264.7	313.1	321.6	361.5	666.0	936.4	828.3	785.6	651.8	649.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)