

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: P193318

Luminaire Tested: **GLEON-AF-10-LED-E1-T4W-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56585.4 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-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



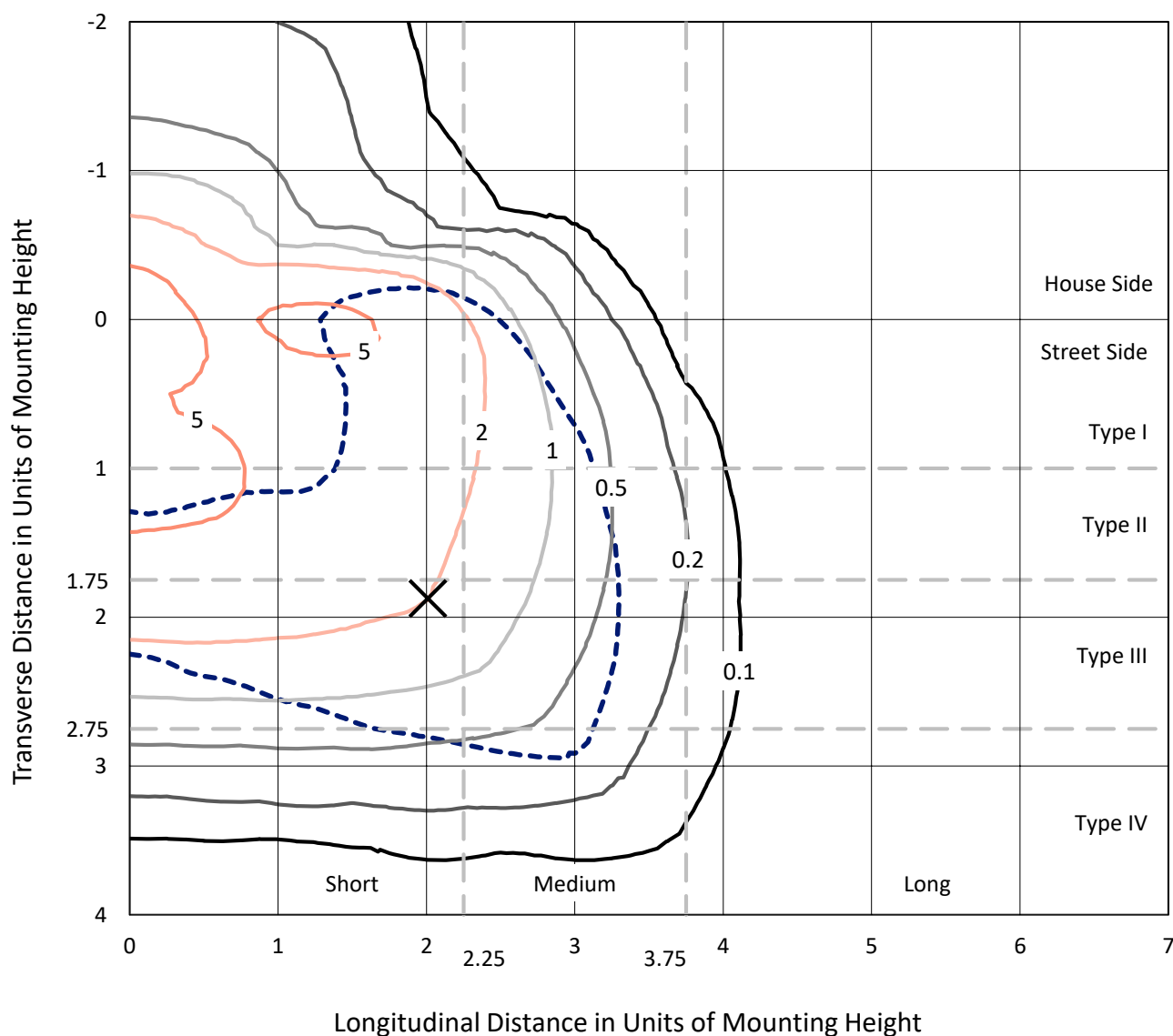
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

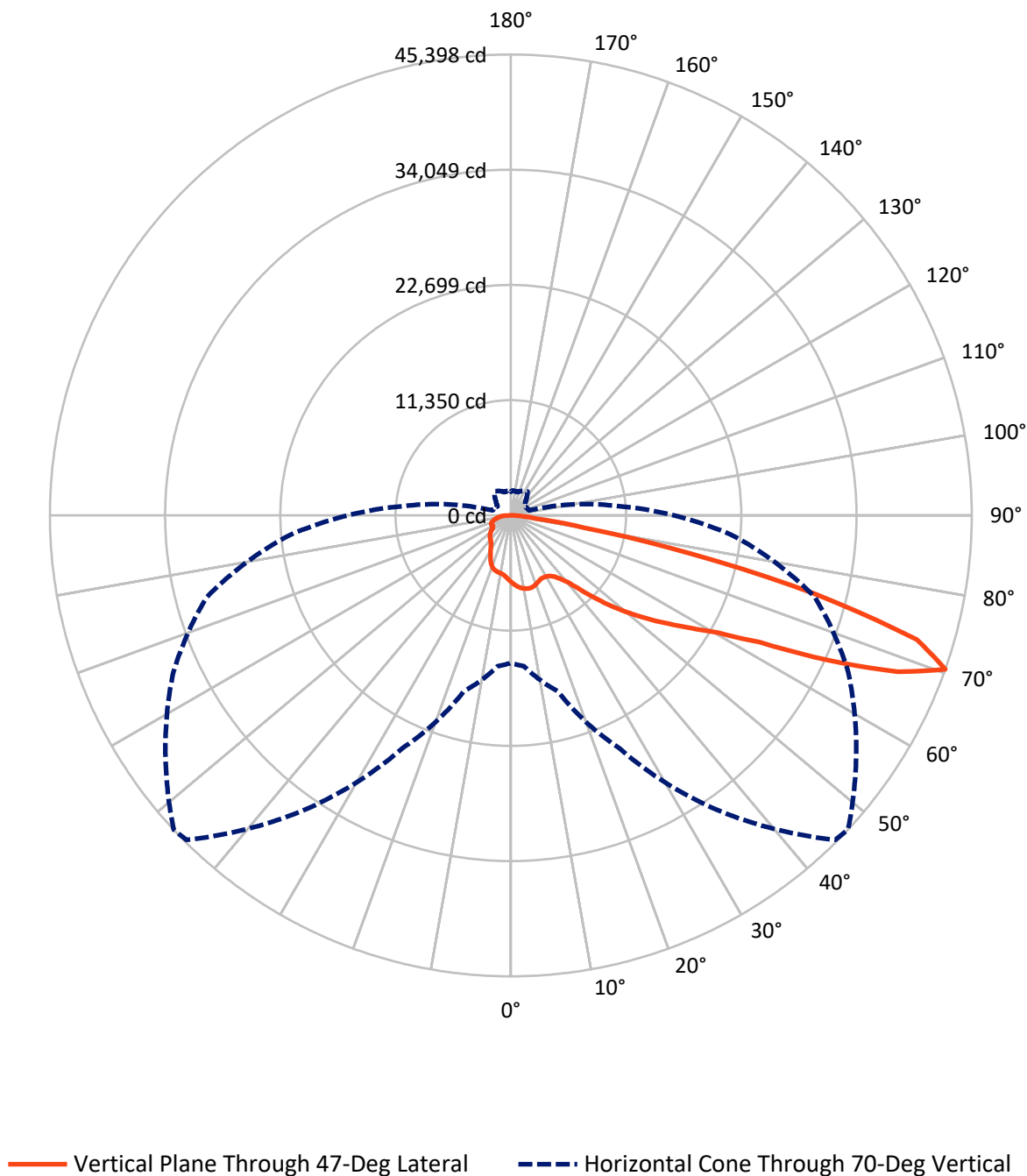


Based on 30 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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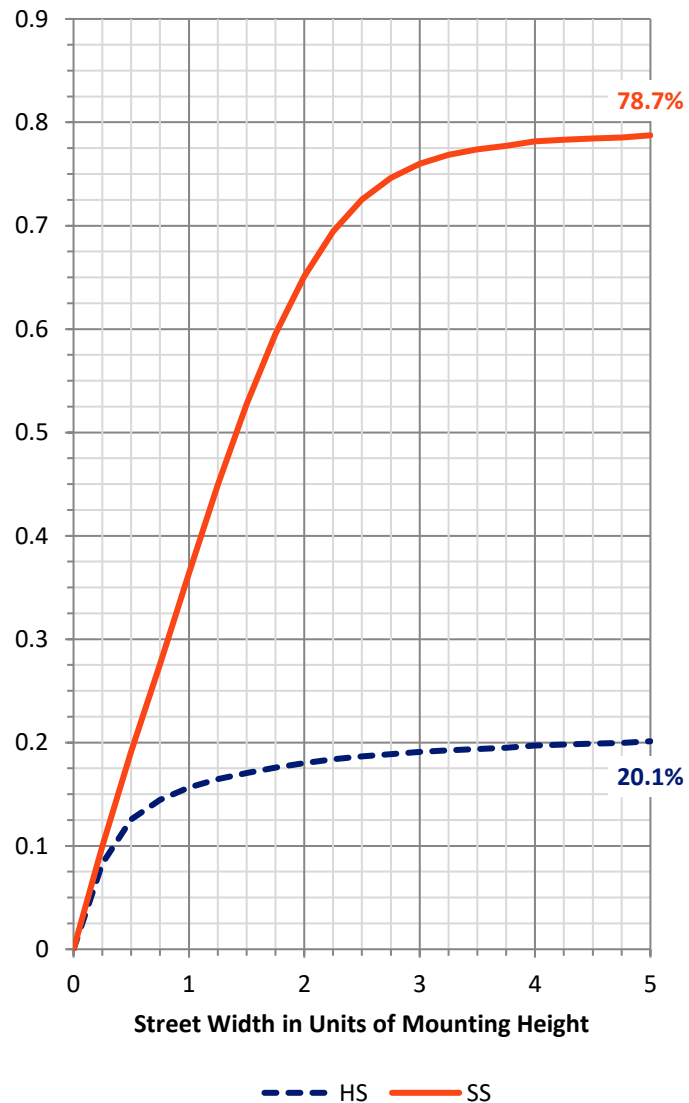
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11804.8	0.0	11804.8
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	44780.5	0.0	44780.5
	% Fixture	79.1	0.0	79.1
Total	Lumens	56585.4	0.0	56585.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	629.1	1.1
10°-20°	1845.6	3.3
20°-30°	2725.5	4.8
30°-40°	3961.4	7.0
40°-50°	7129.2	12.6
50°-60°	12350.6	21.8
60°-70°	17627.9	31.2
70°-80°	9049.2	16.0
80°-90°	1266.9	2.2
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°	56585.4	100.0
0°-180°	56585.4	100.0

Coefficient of Utilization



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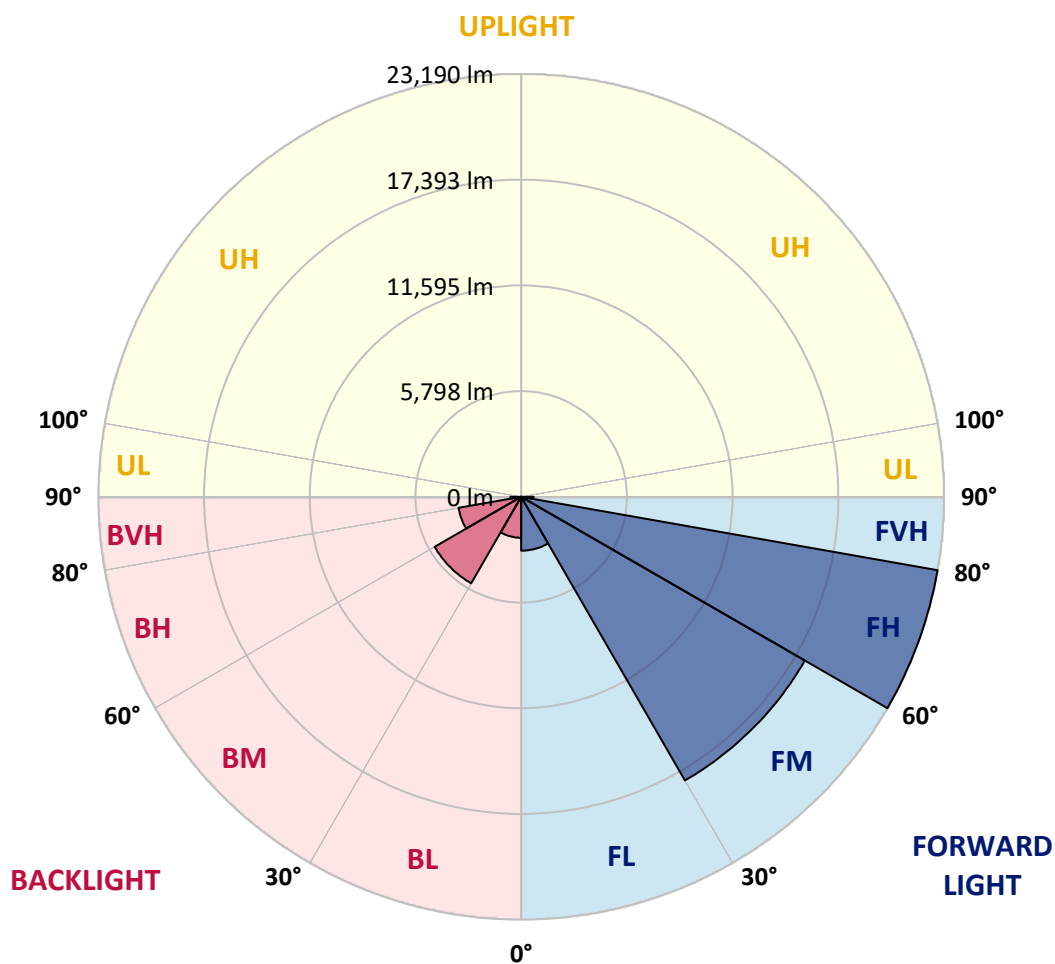
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2952.5	5.2			
FM	(30°-60°)	17961.8	31.7			
FH	(60°-80°)	23190.2	41.0			G5
FVH	(80°-90°)	676.0	1.2			G4/750
BL	(0°-30°)	2247.7	4.0	B3/2500		
BM	(30°-60°)	5479.4	9.7	B4/8500		
BH	(60°-80°)	3486.8	6.2	B4/5000		G4/5000
BVH	(80°-90°)	590.9	1.0			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	6565.7	6565.7	6565.7	6565.7	6565.7	6565.7	6565.7	6565.7	6565.7	6565.7	6565.7
2.5°	6951.1	6937.3	6931.9	6920.8	6907.1	6838.2	6824.5	6774.8	6706.2	6634.4	6560.2
5°	7408.1	7405.3	7375.0	7320.0	7231.9	7080.4	7044.7	6923.5	6761.1	6604.1	6447.3
7.5°	7810.0	7785.2	7727.4	7617.2	7463.1	7256.7	7207.1	7039.1	6816.1	6601.5	6389.5
10°	8104.6	8090.7	7964.1	7812.7	7611.8	7383.3	7325.5	7138.2	6893.2	6620.7	6356.4
12.5°	8272.4	8244.9	8099.1	7917.4	7677.8	7454.9	7397.1	7207.1	6931.9	6620.7	6309.6
15°	8261.4	8242.2	8096.3	7898.1	7655.8	7460.3	7408.1	7218.1	6923.5	6593.1	6249.1
17.5°	8041.3	8049.4	7925.5	7730.1	7531.9	7383.3	7336.4	7160.3	6868.5	6538.2	6177.5
20°	7655.8	7694.4	7611.8	7438.4	7328.2	7226.4	7196.1	7047.4	6783.2	6458.4	6100.4
22.5°	7270.4	7306.1	7273.2	7127.3	7110.7	7050.2	7033.7	6926.3	6708.8	6408.7	6053.6
25°	6986.9	7019.9	7014.3	6887.7	6937.3	6934.5	6920.8	6868.5	6692.3	6408.7	6061.9
27.5°	6909.8	6920.8	6909.8	6794.2	6863.0	6918.1	6907.1	6898.7	6741.9	6488.6	6166.5
30°	7174.1	7157.6	7072.3	6838.2	6901.5	6978.6	6967.6	6973.2	6890.6	6697.8	6400.5
32.5°	8228.5	8154.1	7884.2	7226.4	7058.4	7099.7	7105.2	7196.1	7209.8	7019.9	6763.9
35°	9805.8	9723.2	9373.6	8267.0	7545.7	7402.6	7402.6	7540.2	7622.8	7482.4	7328.2
37.5°	11476.8	11386.0	11198.7	9709.5	8569.8	7928.4	7914.6	8010.9	8129.3	8162.3	8200.9
40°	13376.3	13280.0	13332.3	11328.2	9998.6	8839.5	8644.1	8575.3	8894.6	9106.5	9414.9
42.5°	15454.7	15410.7	15430.0	13131.4	11625.5	10202.2	9924.2	9569.0	9954.5	10331.7	10978.6
45°	17379.1	17417.6	17398.3	15061.1	13436.9	11865.0	11570.4	10882.2	11259.3	11906.3	12960.7
47.5°	19063.8	18904.1	19151.9	17169.9	15465.7	13725.9	13362.6	12440.4	12823.0	13621.4	15405.2
50°	21109.2	21087.2	20723.9	19983.3	17918.6	15595.1	15119.0	14050.8	14645.4	15754.8	18485.7
52.5°	23259.2	22860.1	22527.0	22171.9	20520.1	17511.2	16927.5	15655.8	16787.1	18182.9	22240.7
55°	23699.8	23520.8	23933.7	24531.1	23028.0	19501.5	18821.5	17668.1	19198.7	20957.8	26571.0
57.5°	24641.2	24638.4	25491.9	26557.2	25610.3	21613.0	20927.5	20098.9	21910.3	24137.4	31168.3
60°	25277.1	25456.1	27041.7	29109.2	28145.6	24052.2	23421.7	22904.1	24993.6	27691.4	35451.8
62.5°	25610.3	25852.5	28016.3	30144.2	31729.9	28112.6	27482.2	26736.2	29073.4	31589.5	37957.0
65°	24225.5	24701.8	27864.8	31038.9	34868.2	34694.8	34411.2	33100.8	34174.4	34670.0	37051.2
67.5°	20393.5	20880.7	24564.1	30204.8	37109.1	41043.0	41103.6	38865.3	37312.8	34934.3	31151.8
70°	14529.9	14912.5	17959.9	25323.9	35402.3	45191.6	45398.1	41522.1	36687.8	30981.1	21764.5
72.5°	6898.7	7132.8	10017.8	16481.6	28093.3	41406.3	41805.6	38130.4	31195.8	22937.2	11873.2
75°	2535.5	2607.0	3386.1	7011.6	16294.4	30535.1	31005.9	27333.5	20679.8	11419.0	4523.0
77.5°	1519.6	1566.4	1899.5	2959.4	6408.7	17453.4	18149.8	14865.7	9037.8	4250.5	2224.3
80°	1062.6	1095.7	1362.7	1841.7	3028.2	6651.0	7270.4	6067.3	3600.7	2689.6	1618.6
82.5°	718.5	735.0	957.9	1244.4	2012.3	2375.8	2563.0	2697.8	2428.1	2001.4	1026.8
85°	470.8	487.3	649.6	820.3	1280.1	1227.7	1255.3	1588.4	1772.8	1360.0	569.9
87.5°	269.8	280.8	390.9	437.7	627.7	520.3	525.7	836.9	1134.2	916.6	346.9
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°	6565.7	6565.7	6565.7	6565.7	6565.7	6565.7	6565.7	6565.7	6565.7	6565.7	6565.7
2.5°	6541.0	6505.1	6425.3	6375.8	6329.0	6317.9	6298.7	6295.8	6293.2	6293.2	6284.9
5°	6395.0	6334.5	6210.6	6141.7	6083.9	6078.4	6075.7	6089.4	6094.9	6100.4	6092.2
7.5°	6301.4	6218.8	6064.7	5965.5	5896.7	5880.3	5907.7	5971.0	6012.3	6028.8	6020.6
10°	6243.6	6141.7	5962.9	5855.4	5797.7	5789.3	5825.1	5899.5	5984.7	6017.9	6015.0
12.5°	6177.5	6061.9	5871.9	5759.0	5726.1	5742.5	5789.3	5858.2	5946.2	5998.6	6001.3
15°	6111.4	5976.6	5781.1	5682.0	5668.3	5690.2	5734.3	5786.6	5855.4	5907.7	5913.2
17.5°	6031.5	5891.2	5695.8	5593.8	5582.9	5593.8	5596.7	5624.1	5668.3	5717.7	5731.5
20°	5946.2	5803.1	5599.4	5497.5	5448.0	5404.0	5354.4	5359.9	5373.7	5423.2	5434.2
22.5°	5885.7	5742.5	5525.0	5384.7	5252.5	5120.4	5021.3	5007.6	5013.1	5054.4	5068.1
25°	5891.2	5739.8	5505.8	5263.6	4974.5	4762.5	4630.4	4608.3	4605.6	4635.9	4655.1
27.5°	5998.6	5847.1	5577.3	5139.7	4671.7	4357.8	4217.4	4200.9	4178.9	4187.2	4209.2
30°	6238.0	6097.6	5750.8	5013.1	4344.0	3961.4	3815.6	3799.1	3768.7	3754.9	3771.5
32.5°	6629.0	6513.4	6004.2	4891.9	4016.5	3622.8	3474.1	3438.4	3419.0	3402.6	3416.3
35°	7278.7	7229.1	6342.7	4759.8	3727.4	3361.3	3226.4	3171.4	3143.8	3174.1	3196.2
37.5°	8297.2	8324.8	6785.9	4553.3	3504.5	3187.8	3075.0	3011.6	2970.4	2995.2	3019.9
40°	9739.8	9759.0	7275.9	4261.4	3311.7	3086.0	2964.9	2907.1	2849.3	2805.2	2802.5
42.5°	11633.7	11438.3	7757.6	3945.0	3088.8	3022.6	2887.8	2816.2	2728.1	2607.0	2582.3
45°	13880.1	13194.7	8123.8	3581.5	2838.2	2945.6	2802.5	2703.3	2565.7	2433.5	2419.8
47.5°	16467.9	15080.4	8302.7	3204.3	2604.2	2832.8	2697.8	2541.0	2367.5	2301.4	2293.2
50°	19628.2	17318.4	8388.1	2838.2	2400.5	2684.1	2546.4	2361.9	2216.1	2202.3	2194.0
52.5°	23226.3	20010.9	8415.5	2538.2	2232.6	2491.3	2422.6	2243.6	2128.1	2139.0	2139.0
55°	26992.2	22791.3	8041.3	2320.6	2078.4	2293.2	2340.0	2196.7	2100.5	2144.5	2161.0
57.5°	30449.8	25255.1	6863.0	2152.7	1932.6	2141.8	2309.6	2240.9	2174.8	2353.8	2364.7
60°	33103.6	26711.3	5125.9	2001.4	1825.1	2089.5	2389.5	2408.8	2425.3	2852.0	2909.8
62.5°	33659.7	26226.9	3523.7	1883.0	1775.6	2133.5	2535.5	2538.2	2518.9	2816.2	2852.0
65°	31107.7	23162.9	2563.0	1816.9	1734.3	2213.4	2659.3	2601.5	2474.8	2700.6	2634.6
67.5°	24704.5	17450.7	2133.5	1767.4	1673.8	2207.8	2791.5	2659.3	2450.0	2645.5	2538.2
70°	16035.7	10551.8	1899.5	1726.1	1602.2	2103.2	2868.5	2653.8	2378.5	2461.1	2334.5
72.5°	7823.7	4718.5	1742.5	1665.5	1527.9	1957.3	2865.8	2604.2	2304.2	2298.7	2229.9
75°	3061.2	2161.0	1599.4	1574.7	1401.2	1792.2	2788.8	2532.6	2216.1	2128.1	2103.2
77.5°	1792.2	1541.6	1417.7	1439.8	1249.8	1627.0	2675.9	2408.8	2094.9	1990.3	1962.9
80°	1304.9	1153.4	1208.5	1244.4	1068.1	1461.8	2524.4	2257.4	1960.1	2012.3	1973.9
82.5°	836.9	743.3	980.0	1015.8	889.2	1293.8	2359.2	2097.7	1770.1	1607.6	1569.2
85°	426.6	470.8	729.6	773.5	685.5	1062.6	2158.3	1885.7	1555.5	1337.9	1360.0
87.5°	239.5	322.1	465.2	520.3	484.6	817.6	1750.9	1555.5	1269.0	1032.4	908.5
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)