

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: P193303

Luminaire Tested: **GLEON-AF-05-LED-E1-T4W-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193303
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-05-LED-E1-T4W-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23085.4 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 210
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



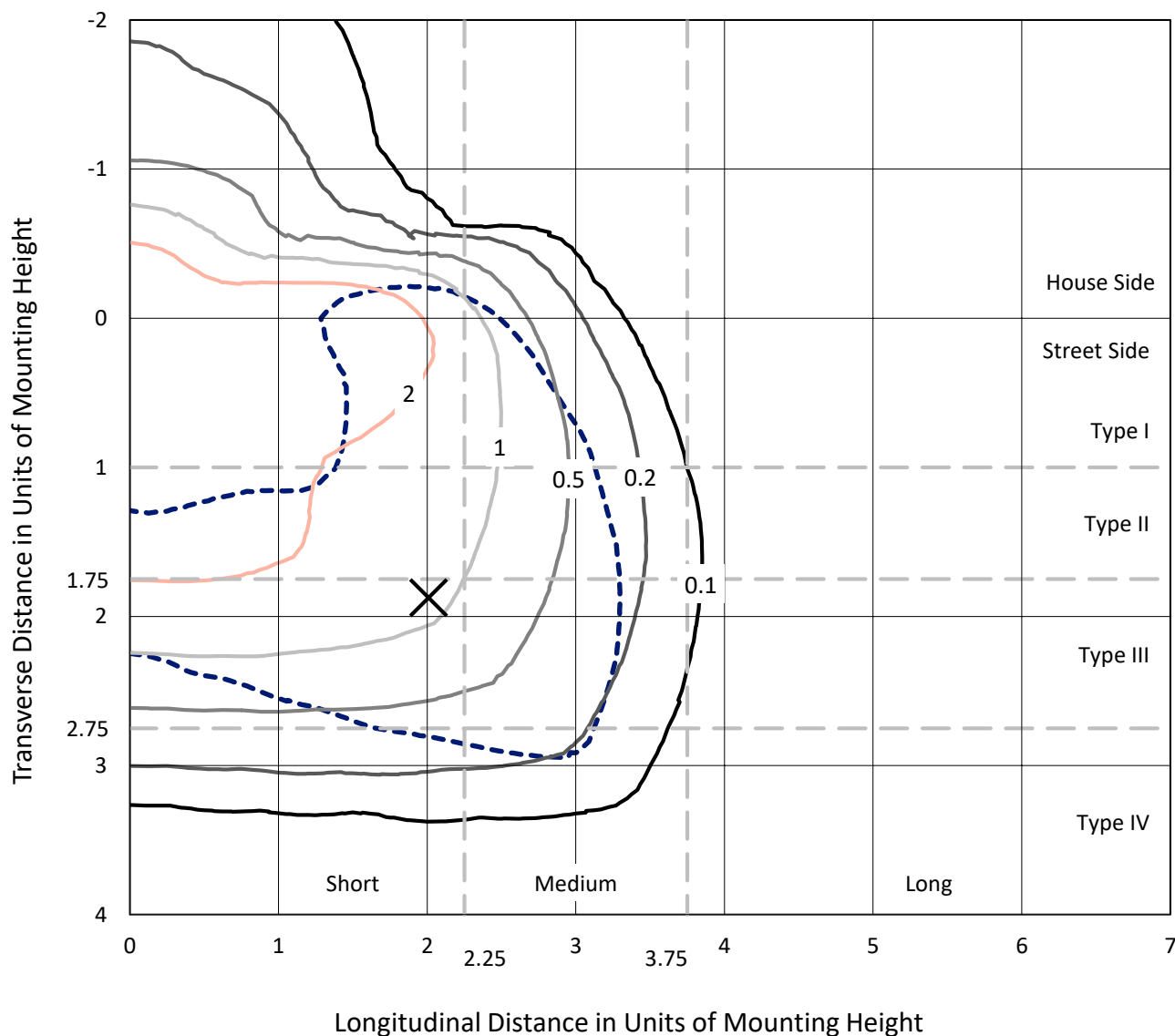
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

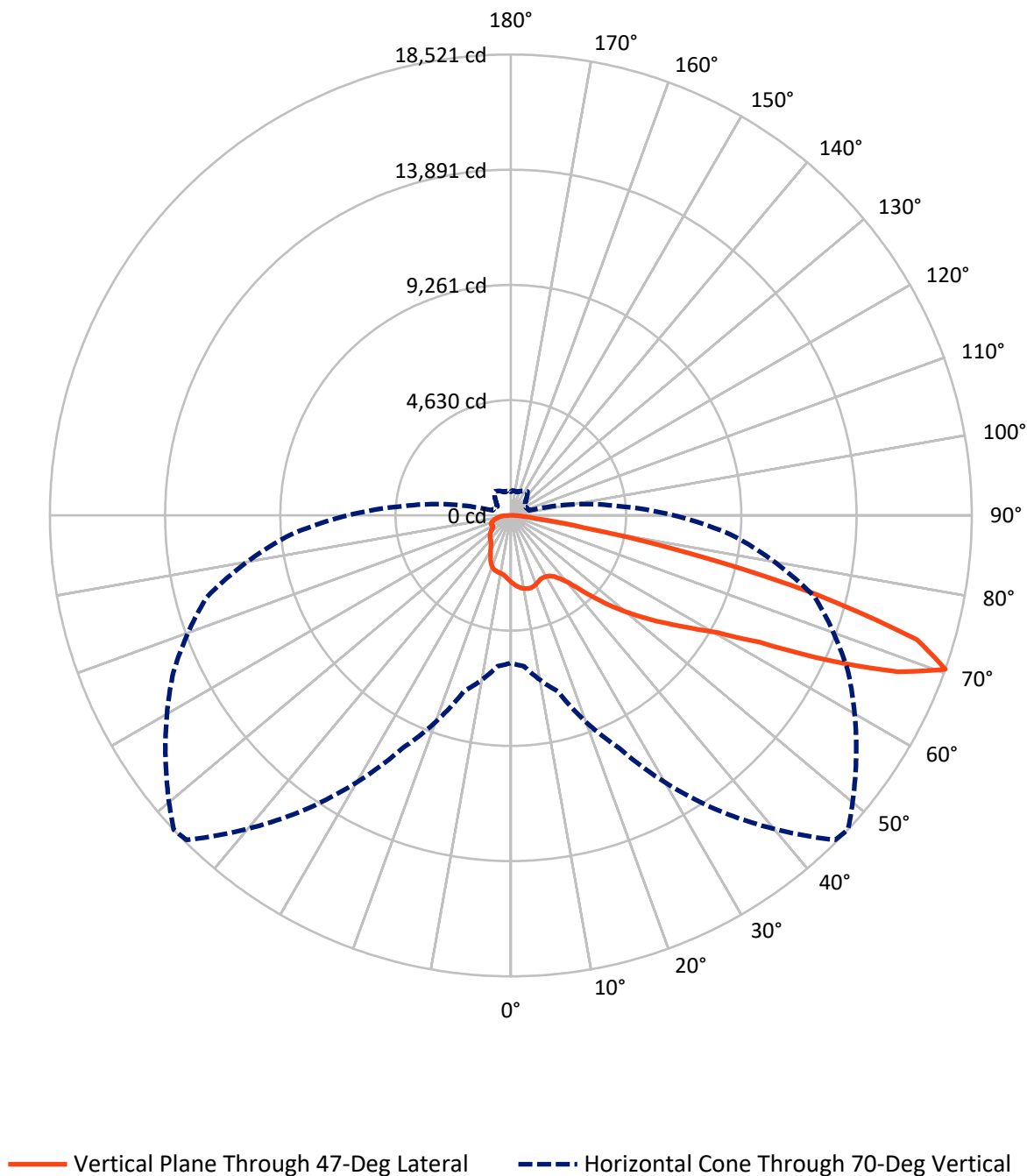


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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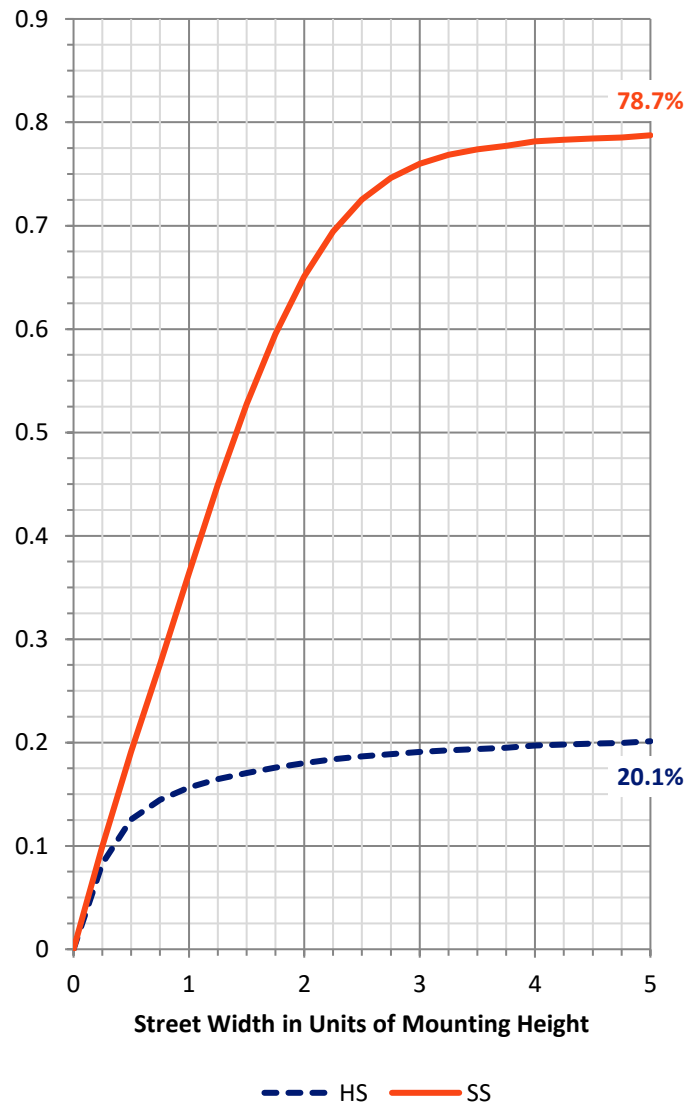
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4816.1	0.0	4816.1
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	18269.3	0.0	18269.3
	% Fixture	79.1	0.0	79.1
Total	Lumens	23085.4	0.0	23085.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.7	1.1
10°-20°	753.0	3.3
20°-30°	1111.9	4.8
30°-40°	1616.2	7.0
40°-50°	2908.5	12.6
50°-60°	5038.7	21.8
60°-70°	7191.7	31.2
70°-80°	3691.8	16.0
80°-90°	516.9	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°	23085.4	100.0
0°-180°	23085.4	100.0

Coefficient of Utilization



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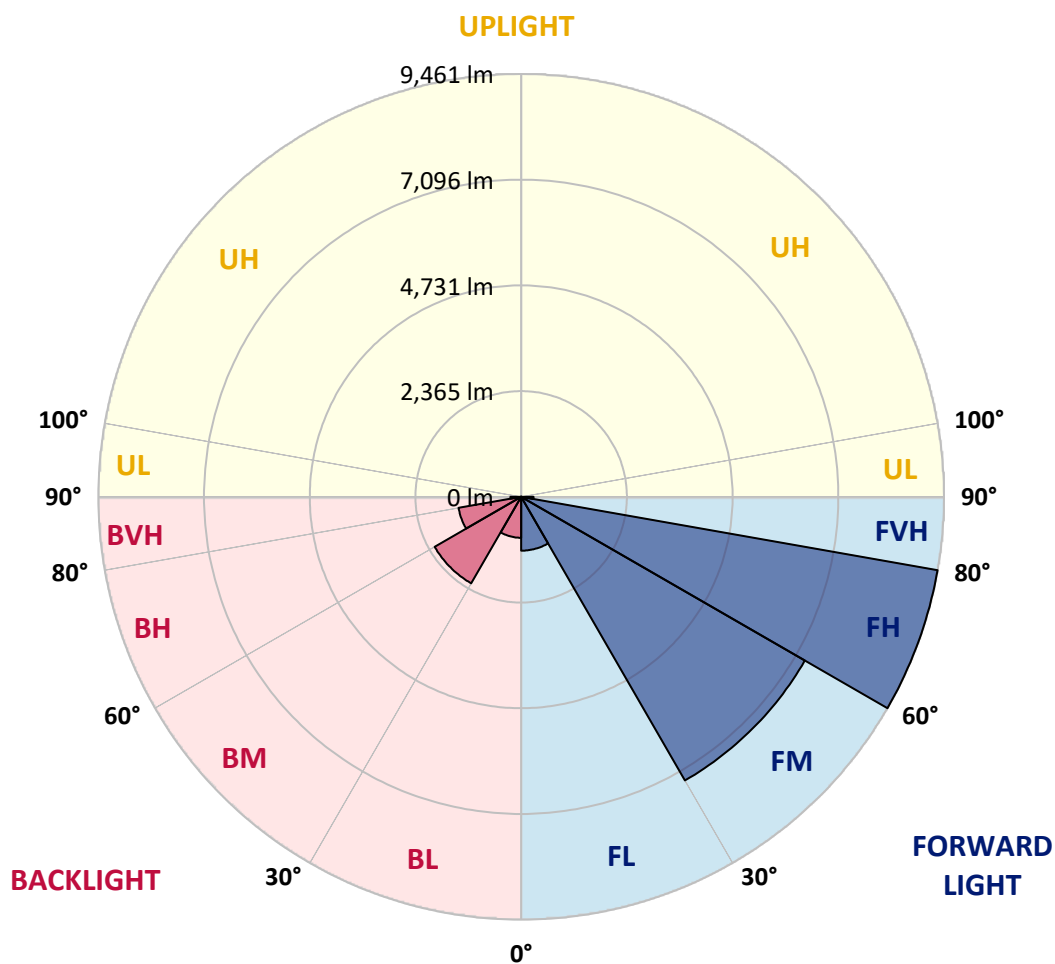
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1204.5	5.2			
FM	(30°-60°)	7327.9	31.7			
FH	(60°-80°)	9461.0	41.0			G4/12000
FVH	(80°-90°)	275.8	1.2			G3/500
BL	(0°-30°)	917.0	4.0	B2/1000		
BM	(30°-60°)	2235.5	9.7	B2/2500		
BH	(60°-80°)	1422.5	6.2	B3/2500		G3/2500
BVH	(80°-90°)	241.1	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6
2.5°	2835.9	2830.3	2827.9	2823.5	2817.9	2789.8	2784.2	2763.9	2735.9	2706.7	2676.5
5°	3022.3	3021.1	3008.8	2986.4	2950.4	2888.6	2874.1	2824.7	2758.4	2694.4	2630.3
7.5°	3186.2	3176.1	3152.5	3107.7	3044.7	2960.5	2940.2	2871.8	2780.8	2693.2	2606.7
10°	3306.4	3300.8	3249.2	3187.4	3105.3	3012.2	2988.6	2912.2	2812.3	2701.1	2593.3
12.5°	3374.9	3363.8	3304.2	3230.0	3132.4	3041.3	3017.8	2940.2	2827.9	2701.1	2574.1
15°	3370.4	3362.6	3303.1	3222.2	3123.4	3043.6	3022.3	2944.7	2824.7	2689.9	2549.4
17.5°	3280.6	3284.0	3233.4	3153.7	3072.8	3012.2	2993.0	2921.3	2802.2	2667.3	2520.3
20°	3123.4	3139.1	3105.3	3034.6	2989.8	2948.2	2935.8	2875.1	2767.3	2634.8	2488.8
22.5°	2966.2	2980.7	2967.3	2907.7	2901.1	2876.2	2869.5	2825.8	2737.1	2614.6	2469.7
25°	2850.5	2863.9	2861.7	2810.0	2830.3	2829.2	2823.5	2802.2	2730.3	2614.6	2473.1
27.5°	2819.0	2823.5	2819.0	2771.8	2799.9	2822.3	2817.9	2814.5	2750.5	2647.2	2515.8
30°	2926.8	2920.1	2885.3	2789.8	2815.6	2847.1	2842.6	2844.9	2811.1	2732.6	2611.2
32.5°	3357.0	3326.6	3216.6	2948.2	2879.6	2896.5	2898.7	2935.8	2941.5	2863.9	2759.5
35°	4000.5	3966.8	3824.2	3372.8	3078.5	3020.0	3020.0	3076.2	3109.8	3052.6	2989.8
37.5°	4682.3	4645.1	4568.7	3961.2	3496.3	3234.5	3228.9	3268.3	3316.6	3330.0	3345.7
40°	5457.2	5417.9	5439.3	4621.5	4079.2	3606.3	3526.6	3498.5	3628.8	3715.3	3841.0
42.5°	6305.2	6287.3	6295.1	5357.2	4743.0	4162.2	4048.8	3904.0	4061.1	4215.0	4479.0
45°	7090.2	7105.9	7098.0	6144.5	5481.9	4840.6	4720.4	4439.6	4593.5	4857.4	5287.6
47.5°	7777.5	7712.4	7813.4	7004.8	6309.6	5599.9	5451.6	5075.3	5231.5	5557.2	6284.9
50°	8612.1	8603.1	8454.8	8152.7	7310.3	6362.3	6168.1	5732.4	5975.0	6427.6	7541.7
52.5°	9489.1	9326.4	9190.5	9045.6	8371.7	7144.1	6906.1	6387.2	6848.7	7418.1	9073.7
55°	9668.9	9595.9	9764.4	10008.0	9394.8	7956.2	7678.7	7208.2	7832.6	8550.3	10840.2
57.5°	10053.0	10051.9	10400.1	10834.7	10448.4	8817.6	8537.9	8199.8	8938.8	9847.4	12715.9
60°	10312.4	10385.4	11032.4	11875.8	11482.7	9812.7	9555.5	9344.3	10196.7	11297.4	14463.4
62.5°	10448.4	10547.2	11429.9	12298.1	12945.0	11469.3	11212.0	10907.7	11861.1	12887.6	15485.5
65°	9883.4	10077.6	11368.1	12663.1	14225.3	14154.5	14038.9	13504.3	13942.3	14144.4	15116.0
67.5°	8320.0	8518.8	10021.6	12322.8	15139.5	16744.5	16769.2	15856.1	15222.6	14252.4	12709.1
70°	5927.8	6083.9	7327.2	10331.5	14443.2	18437.1	18521.3	16939.9	14967.8	12639.5	8879.3
72.5°	2814.5	2910.0	4087.1	6724.1	11461.4	16892.8	17055.6	15556.3	12727.1	9357.7	4844.0
75°	1034.3	1063.6	1381.5	2860.5	6647.7	12457.5	12649.6	11151.4	8436.8	4658.7	1845.3
77.5°	619.9	639.0	774.9	1207.4	2614.6	7120.5	7404.7	6064.8	3687.2	1734.1	907.5
80°	433.5	447.0	555.9	751.3	1235.4	2713.5	2966.2	2475.4	1469.0	1097.3	660.4
82.5°	293.2	299.9	390.8	507.6	821.0	969.2	1045.6	1100.7	990.6	816.5	418.9
85°	192.1	198.8	265.1	334.7	522.3	501.0	512.1	648.0	723.3	554.8	232.5
87.5°	110.1	114.5	159.5	178.5	256.1	212.3	214.4	341.4	462.7	374.0	141.5
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°	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6
2.5°	2668.5	2653.9	2621.3	2601.1	2582.1	2577.5	2569.7	2568.5	2567.5	2567.5	2564.1
5°	2609.0	2584.3	2533.7	2505.7	2482.1	2479.8	2478.6	2484.3	2486.5	2488.8	2485.4
7.5°	2570.8	2537.1	2474.1	2433.8	2405.7	2399.0	2410.2	2436.1	2452.9	2459.7	2456.2
10°	2547.3	2505.7	2432.6	2388.9	2365.3	2361.8	2376.5	2406.9	2441.6	2455.2	2454.0
12.5°	2520.3	2473.1	2395.6	2349.5	2336.1	2342.8	2361.8	2389.9	2425.9	2447.3	2448.4
15°	2493.3	2438.2	2358.6	2318.2	2312.5	2321.4	2339.5	2360.8	2388.9	2410.2	2412.5
17.5°	2460.7	2403.4	2323.7	2282.2	2277.6	2282.2	2283.3	2294.6	2312.5	2332.6	2338.3
20°	2425.9	2367.5	2284.4	2242.9	2222.7	2204.7	2184.4	2186.8	2192.3	2212.5	2217.0
22.5°	2401.2	2342.8	2254.1	2196.7	2142.9	2089.0	2048.6	2042.9	2045.3	2062.0	2067.6
25°	2403.4	2341.7	2246.3	2147.4	2029.5	1942.9	1889.1	1880.2	1878.9	1891.3	1899.2
27.5°	2447.3	2385.4	2275.5	2096.9	1905.9	1777.8	1720.7	1713.8	1704.9	1708.3	1717.2
30°	2544.9	2487.8	2346.3	2045.3	1772.3	1616.2	1556.6	1549.9	1537.5	1532.0	1538.7
32.5°	2704.5	2657.3	2449.5	1995.7	1638.7	1478.1	1417.4	1402.8	1394.9	1388.1	1393.8
35°	2969.5	2949.4	2587.7	1941.9	1520.7	1371.3	1316.2	1293.8	1282.6	1294.9	1303.9
37.5°	3385.1	3396.4	2768.5	1857.6	1429.7	1300.5	1254.6	1228.7	1211.8	1221.9	1232.0
40°	3973.5	3981.4	2968.3	1738.6	1351.1	1259.0	1209.6	1186.0	1162.4	1144.5	1143.3
42.5°	4746.2	4666.6	3164.9	1609.4	1260.1	1233.2	1178.2	1149.0	1113.1	1063.6	1053.5
45°	5662.7	5383.1	3314.3	1461.2	1157.9	1201.8	1143.3	1102.9	1046.7	992.8	987.2
47.5°	6718.5	6152.4	3387.2	1307.3	1062.4	1155.6	1100.7	1036.7	965.9	939.0	935.6
50°	8007.8	7065.5	3422.1	1157.9	979.4	1095.0	1038.8	963.6	904.1	898.4	895.2
52.5°	9475.7	8163.9	3433.4	1035.6	910.9	1016.4	988.4	915.4	868.2	872.7	872.7
55°	11012.1	9298.3	3280.6	946.7	848.0	935.6	954.6	896.3	856.9	874.9	881.6
57.5°	12422.8	10303.4	2799.9	878.2	788.5	873.7	942.3	914.2	887.3	960.3	964.8
60°	13505.4	10897.5	2091.2	816.5	744.6	852.4	974.8	982.7	989.5	1163.5	1187.1
62.5°	13732.2	10699.9	1437.7	768.2	724.4	870.4	1034.3	1035.6	1027.7	1149.0	1163.5
65°	12691.2	9449.9	1045.6	741.3	707.6	903.0	1085.0	1061.4	1009.7	1101.8	1074.8
67.5°	10078.8	7119.5	870.4	721.0	682.9	900.8	1138.8	1085.0	999.6	1079.3	1035.6
70°	6542.1	4305.0	774.9	704.1	653.7	858.0	1170.2	1082.6	970.3	1004.1	952.4
72.5°	3191.9	1925.0	710.9	679.5	623.4	798.5	1169.2	1062.4	940.0	937.8	909.7
75°	1249.0	881.6	652.5	642.5	571.7	731.2	1137.7	1033.3	904.1	868.2	858.0
77.5°	731.2	628.9	578.4	587.4	509.9	663.8	1091.7	982.7	854.7	812.1	800.8
80°	532.3	470.6	493.1	507.6	435.7	596.3	1029.9	920.9	799.7	821.0	805.2
82.5°	341.4	303.2	399.8	414.4	362.7	527.8	962.5	855.8	722.2	655.9	640.1
85°	174.0	192.1	297.6	315.5	279.7	433.5	880.5	769.3	634.6	545.9	554.8
87.5°	97.7	131.4	189.8	212.3	197.6	333.6	714.3	634.6	517.8	421.2	370.6
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)