

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: P193116

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193116
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45277.1 lumens
Efficiency: N/A
Efficacy: 101.7 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): 445
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



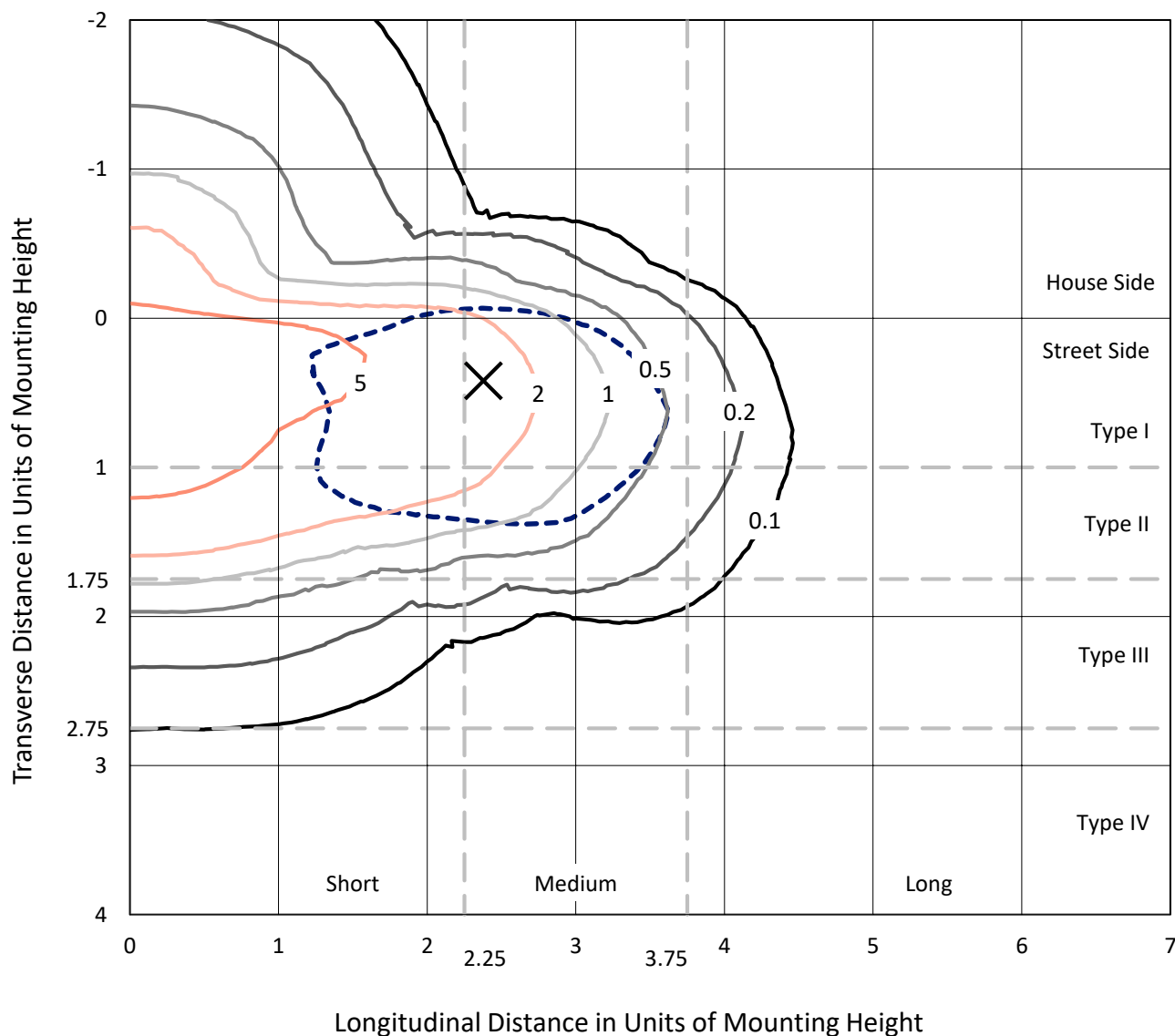
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

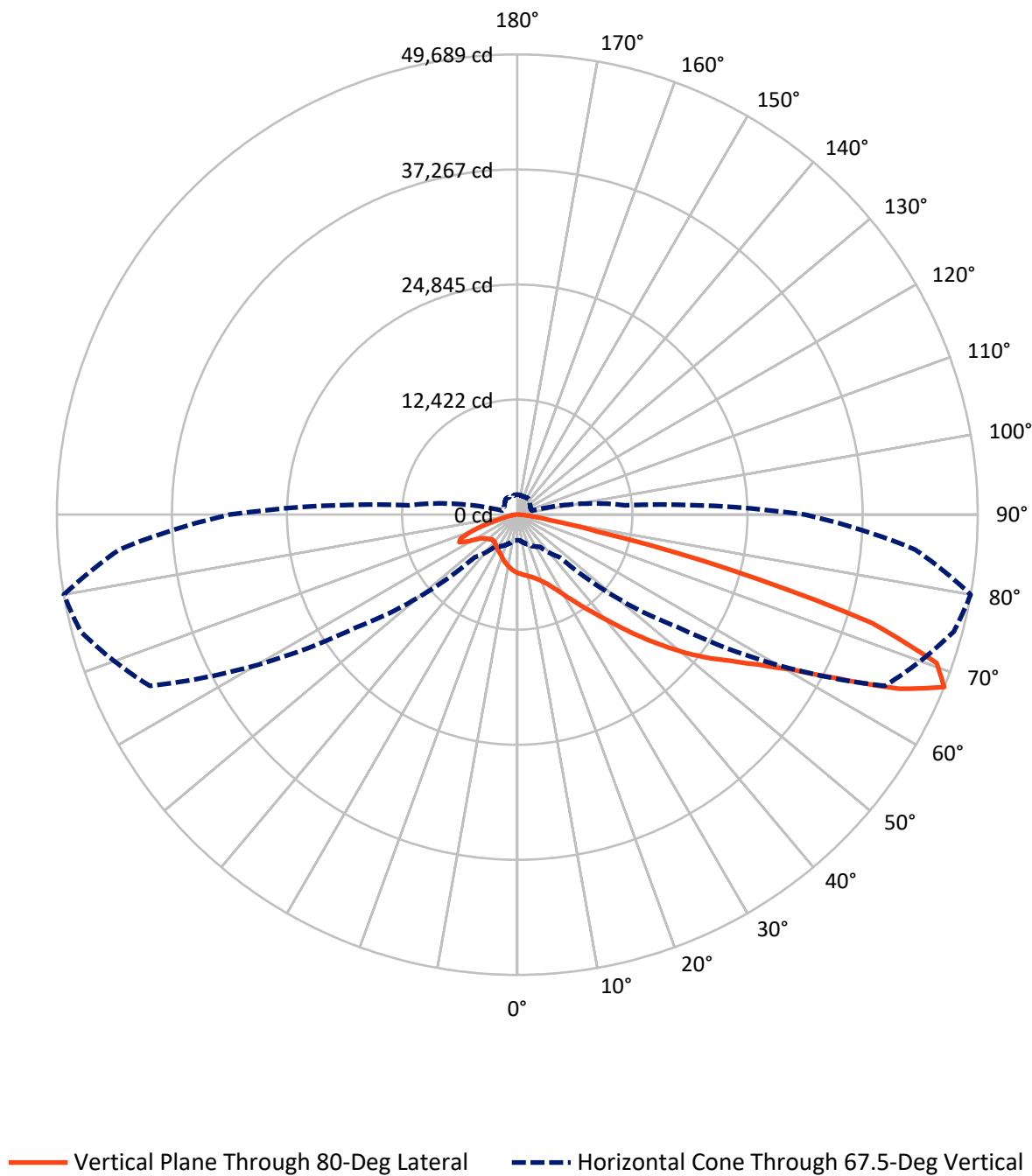


Based on 30 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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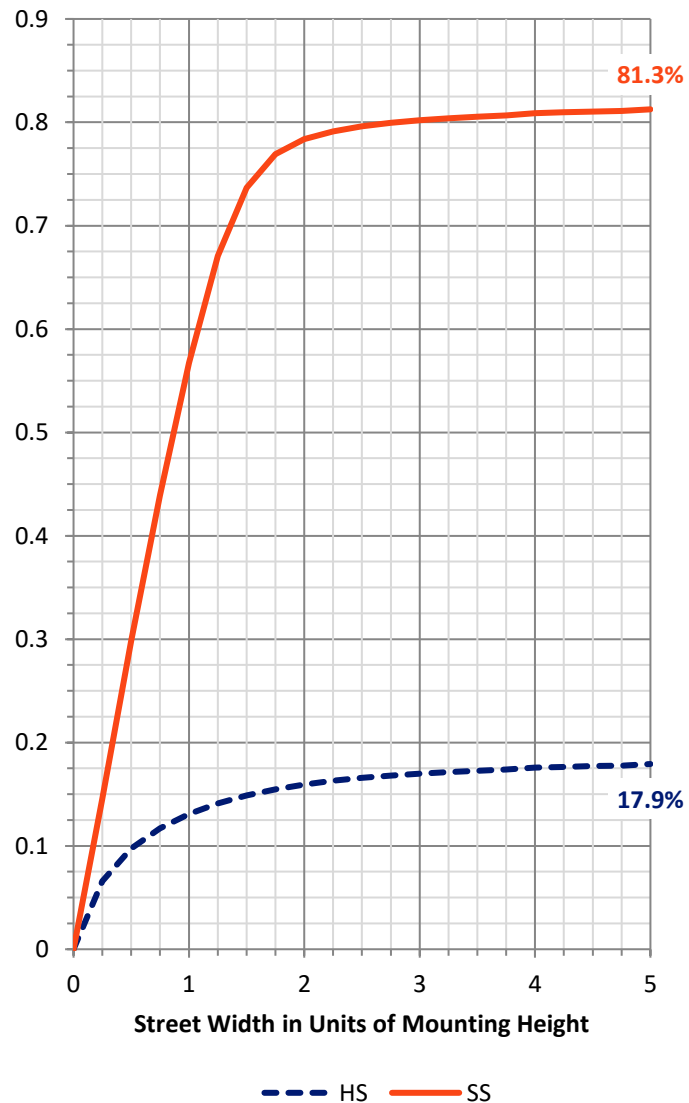
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8338.3	0.0	8338.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	36938.7	0.0	36938.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	45277.1	0.0	45277.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.3	1.3
10°-20°	1671.5	3.7
20°-30°	2766.8	6.1
30°-40°	4525.7	10.0
40°-50°	7307.2	16.1
50°-60°	10549.5	23.3
60°-70°	11642.0	25.7
70°-80°	5366.2	11.9
80°-90°	868.0	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°	45277.1	100.0
0°-180°	45277.1	100.0

Coefficient of Utilization



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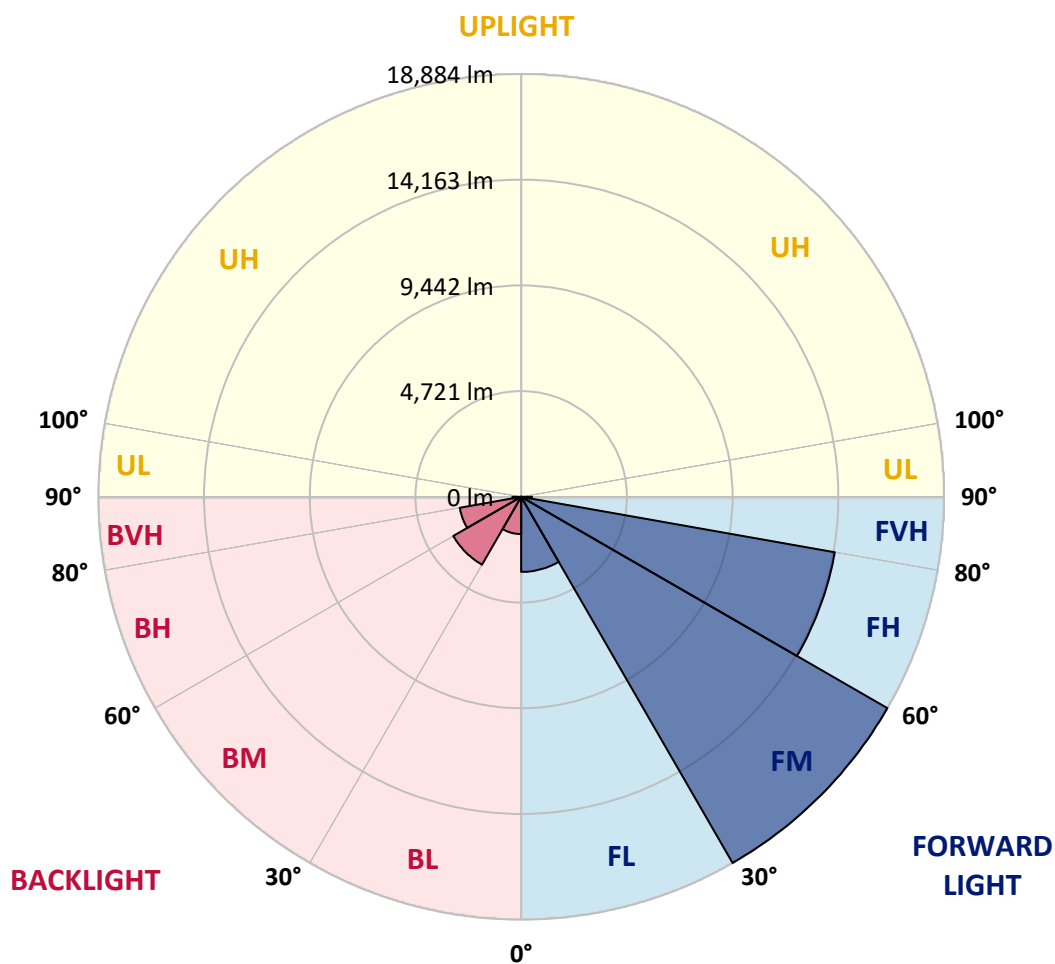
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3354.9	7.4			
FM	(30°-60°)	18883.9	41.7			
FH	(60°-80°)	14222.7	31.4			G5
FVH	(80°-90°)	477.2	1.1			G3/500
BL	(0°-30°)	1663.6	3.7	B3/2500		
BM	(30°-60°)	3498.5	7.7	B3/5000		
BH	(60°-80°)	2785.5	6.2	B4/5000		G4/5000
BVH	(80°-90°)	390.8	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°	6290.3	6290.3	6290.3	6290.3	6290.3	6290.3	6290.3	6290.3	6290.3	6290.3	6290.3
2.5°	6881.0	6840.8	6847.6	6836.5	6802.9	6745.0	6682.7	6568.8	6450.7	6388.4	6339.3
5°	7456.1	7444.9	7429.3	7393.7	7309.0	7188.6	7039.2	6838.6	6622.4	6508.8	6399.6
7.5°	7886.3	7879.6	7859.6	7837.2	7754.7	7609.9	7384.8	7099.4	6785.1	6629.1	6459.7
10°	7922.0	7933.1	7948.7	8008.9	8020.0	7942.0	7712.4	7367.0	6954.6	6754.0	6537.7
12.5°	7618.7	7643.3	7703.6	7857.3	8020.0	8115.9	7997.8	7647.8	7152.8	6910.0	6635.8
15°	7217.5	7231.0	7304.5	7516.3	7808.2	8104.8	8216.2	7957.6	7409.3	7110.6	6783.0
17.5°	7045.9	7052.5	7103.9	7244.3	7516.3	7939.8	8338.7	8294.2	7723.5	7360.2	6963.4
20°	6959.0	6974.6	7048.2	7186.3	7357.9	7728.0	8356.5	8657.4	8098.1	7672.3	7190.8
22.5°	7206.4	7199.7	7226.5	7295.6	7440.4	7663.3	8343.2	9032.0	8575.0	8073.5	7487.3
25°	7783.7	7808.2	7761.4	7683.4	7730.2	7886.3	8414.6	9437.7	9172.5	8588.5	7875.1
27.5°	8606.3	8581.8	8512.6	8329.8	8234.0	8300.9	8650.8	9874.6	9914.7	9266.1	8387.9
30°	9426.6	9406.4	9339.6	9116.7	8920.6	8864.9	9110.0	10376.2	10799.6	10079.6	9016.4
32.5°	10278.0	10255.7	10193.4	9970.5	9734.1	9604.9	9763.1	10955.7	11842.8	11051.5	9756.5
35°	11327.9	11285.5	11154.1	10844.2	10612.4	10512.1	10585.6	11684.5	13046.4	12201.6	10654.8
37.5°	12315.3	12379.9	12246.3	11818.2	11517.3	11481.7	11564.1	12573.9	14343.8	13487.8	11686.8
40°	13307.2	13318.3	13198.1	12848.2	12538.3	12480.2	12687.6	13652.7	15875.1	15025.9	12941.6
42.5°	14332.6	14354.9	14152.1	13828.8	13601.4	13612.6	13848.9	14916.6	17631.6	16838.1	14386.0
45°	15547.4	15580.8	15357.9	14934.4	14727.2	15144.0	15045.9	16334.3	19557.4	18897.6	16044.5
47.5°	16818.0	16869.2	16699.8	16303.0	16044.5	16617.4	16242.9	17905.7	21630.4	21106.6	17865.6
50°	17511.2	17584.7	17749.7	17720.8	17665.0	17569.1	17578.0	19590.8	23768.0	23406.9	19738.0
52.5°	17139.0	17136.7	17738.6	18469.6	19249.9	19307.8	19205.3	21367.4	25765.3	25656.0	21501.1
55°	15435.9	15551.9	16463.5	17878.9	20010.0	21340.6	21643.8	23402.5	27726.8	27853.9	23291.1
57.5°	12600.7	12696.5	13927.0	15899.6	18984.6	22548.8	25112.1	26360.4	29920.1	30513.1	25673.8
60°	8546.0	8662.0	9966.0	12335.4	16225.0	21875.6	28413.3	31638.7	32545.9	33894.5	29017.4
62.5°	5022.0	5126.8	6190.0	7781.6	11423.7	18748.4	29862.2	39148.2	36716.5	38996.7	34117.4
65°	3457.2	3528.5	4045.7	4843.7	6564.6	12627.4	28065.7	44333.0	43133.8	45318.2	40031.0
67.5°	2781.8	2772.9	3183.0	3727.0	4226.2	6511.0	21222.5	43746.8	48777.7	49689.4	43100.4
70°	2291.3	2282.5	2561.1	3011.4	3376.9	3666.7	11559.7	36917.1	47627.5	47997.5	40273.9
72.5°	1917.0	1925.9	2104.3	2438.5	2770.7	2761.7	5079.9	25970.3	37467.6	40026.6	32104.6
75°	1618.2	1622.7	1740.8	1977.1	2249.1	2224.5	2755.1	14069.6	21779.7	23560.7	17796.4
77.5°	1377.5	1382.0	1457.7	1589.2	1783.2	1774.3	2010.6	6078.5	9085.5	8974.0	6087.5
80°	1228.2	1228.2	1263.8	1288.3	1395.4	1355.3	1491.2	2920.1	3840.6	3546.3	2429.6
82.5°	962.9	967.4	1185.8	1176.9	1098.9	1047.7	1047.7	1720.9	2035.1	1881.3	1422.1
85°	541.6	539.4	764.6	922.8	967.4	737.8	731.2	962.9	1107.8	976.3	688.8
87.5°	231.8	236.3	354.4	410.2	548.4	459.2	452.5	497.0	564.0	488.2	318.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6290.3	6290.3	6290.3	6290.3	6290.3	6290.3	6290.3	6290.3	6290.3	6290.3	6290.3
2.5°	6292.6	6234.6	6107.5	5949.2	5806.6	5712.9	5628.3	5505.7	5512.3	5427.7	5365.2
5°	6288.1	6167.6	5873.4	5523.5	5187.0	4944.0	4761.2	4596.2	4556.1	4478.1	4431.3
7.5°	6292.6	6096.3	5601.5	5042.1	4625.3	4317.6	4161.5	4074.6	4054.6	4027.9	4030.0
10°	6308.1	6031.7	5302.8	4591.7	4154.9	3952.0	3914.2	3940.9	3972.1	3981.1	3983.3
12.5°	6343.8	5973.8	4975.1	4190.5	3860.6	3798.3	3862.9	3954.3	4014.5	4043.4	4041.2
15°	6424.0	5929.2	4660.9	3876.3	3698.0	3731.4	3851.7	3981.1	4067.9	4108.0	4110.4
17.5°	6511.0	5864.6	4337.7	3635.5	3577.5	3662.3	3811.6	3963.2	4070.2	4114.8	4123.7
20°	6624.6	5784.3	3998.9	3455.0	3463.8	3559.7	3700.2	3851.7	3969.9	4007.7	4025.6
22.5°	6774.0	5697.4	3702.4	3307.9	3334.6	3408.2	3517.4	3648.9	3751.4	3769.2	3784.8
25°	6974.6	5603.8	3466.1	3174.1	3185.2	3227.6	3301.2	3379.2	3450.5	3430.4	3446.0
27.5°	7244.3	5523.5	3290.1	3051.5	3031.5	3040.3	3078.3	3102.8	3140.6	3084.9	3091.6
30°	7560.8	5436.6	3154.1	2944.5	2888.9	2873.2	2882.2	2895.5	2924.5	2848.7	2837.6
32.5°	7928.6	5331.9	3027.0	2850.9	2772.9	2741.7	2746.1	2781.8	2893.3	2846.4	2821.9
35°	8356.5	5213.7	2893.3	2748.4	2694.9	2650.3	2645.8	2757.2	3089.5	3060.5	3038.2
37.5°	8858.0	5095.6	2759.6	2632.5	2637.0	2588.0	2572.3	2699.4	3127.3	3013.6	2998.1
40°	9495.6	5033.1	2645.8	2509.9	2565.6	2559.0	2527.7	2592.4	2877.7	2670.4	2643.6
42.5°	10284.7	5042.1	2561.1	2378.3	2481.0	2552.2	2503.2	2505.5	2607.9	2451.9	2427.4
45°	11258.8	5146.7	2501.0	2273.5	2385.0	2545.5	2494.3	2458.7	2467.5	2385.0	2371.7
47.5°	12395.6	5363.0	2458.7	2186.8	2293.7	2521.0	2492.1	2445.2	2425.2	2380.5	2369.4
50°	13659.5	5677.3	2427.4	2104.3	2211.2	2481.0	2494.3	2431.9	2409.6	2391.6	2385.0
52.5°	14901.0	6036.1	2380.5	2032.9	2146.5	2431.9	2501.0	2418.5	2394.0	2380.5	2373.8
55°	16285.2	6484.2	2309.3	1972.6	2093.1	2369.4	2501.0	2398.5	2371.7	2373.8	2371.7
57.5°	18155.4	7208.7	2224.5	1921.5	2028.4	2293.7	2458.7	2376.2	2342.7	2344.9	2347.1
60°	21077.6	8485.8	2122.1	1870.2	1948.2	2204.6	2400.7	2327.1	2293.7	2302.5	2304.9
62.5°	25375.1	10360.5	1988.3	1794.4	1863.4	2108.7	2320.4	2264.7	2231.3	2253.6	2253.6
65°	29842.1	12014.4	1823.3	1698.6	1774.3	2004.0	2220.1	2186.8	2153.3	2204.6	2202.2
67.5°	31043.7	11644.5	1658.3	1593.8	1685.1	1888.0	2099.8	2081.9	2064.1	2153.3	2148.8
70°	27577.5	9348.6	1506.8	1486.8	1587.1	1763.1	1970.5	1970.5	1959.3	2026.2	2010.6
72.5°	21010.8	6629.1	1361.9	1373.1	1475.6	1627.2	1830.0	1845.6	1827.8	1861.2	1847.9
75°	11247.7	3793.8	1217.0	1248.3	1337.5	1488.9	1674.0	1689.5	1678.4	1676.2	1682.9
77.5°	3738.1	1854.5	1065.5	1114.6	1192.6	1346.3	1511.3	1535.7	1509.1	1504.6	1502.4
80°	1665.1	1165.8	898.3	962.9	1032.1	1183.6	1339.6	1359.7	1330.8	1370.8	1319.7
82.5°	1069.9	766.8	720.0	791.2	858.1	1020.9	1168.0	1172.5	1145.7	1330.8	1134.5
85°	519.3	474.7	541.6	606.3	664.3	802.4	967.4	969.6	902.7	822.5	793.6
87.5°	258.6	276.4	361.1	419.0	448.1	550.5	704.4	690.9	662.0	601.8	555.0
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)