

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: P455254

Luminaire Tested: **GALN-SA6B-830-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455254
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26966 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 243
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: 24 FT



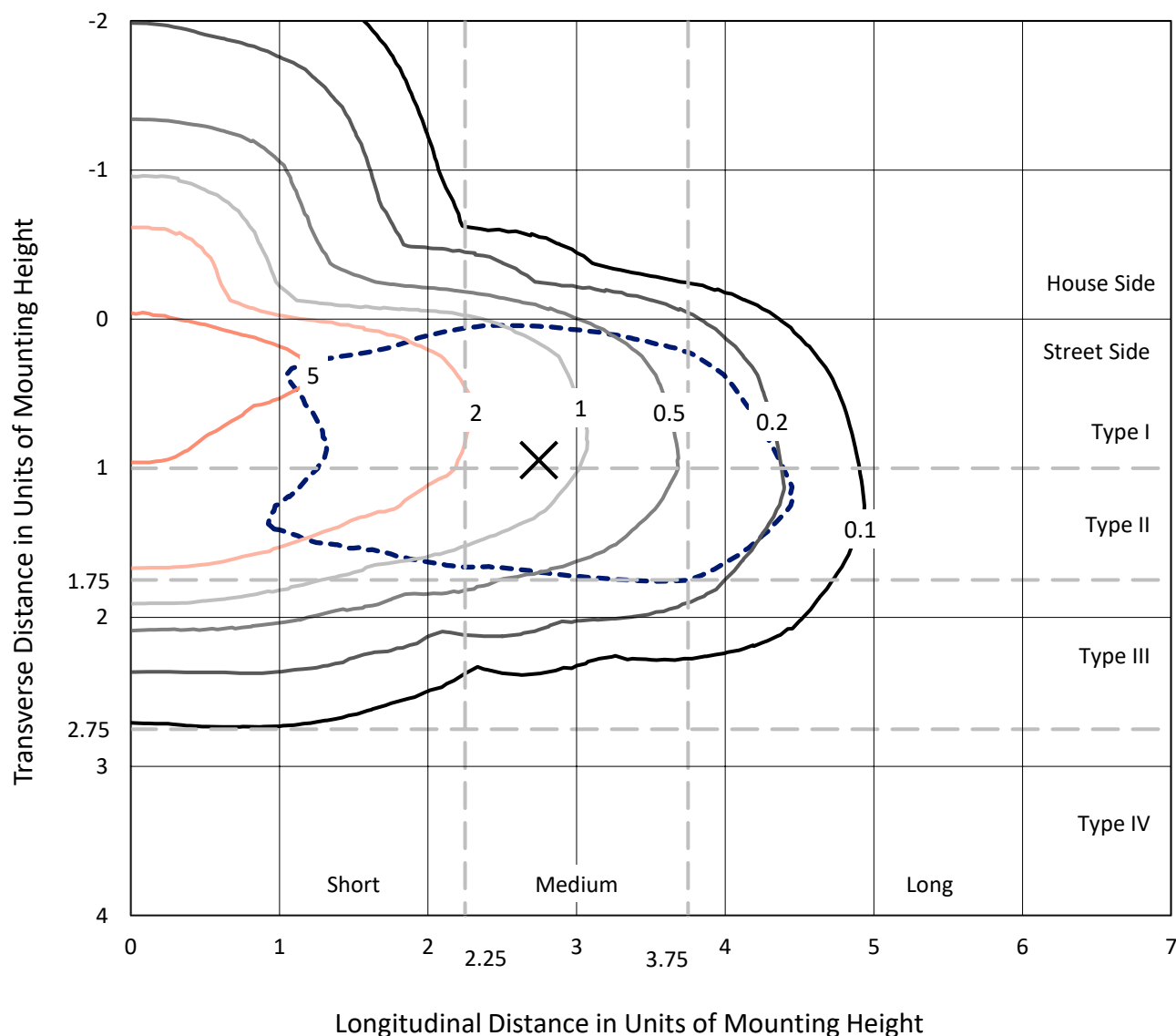
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

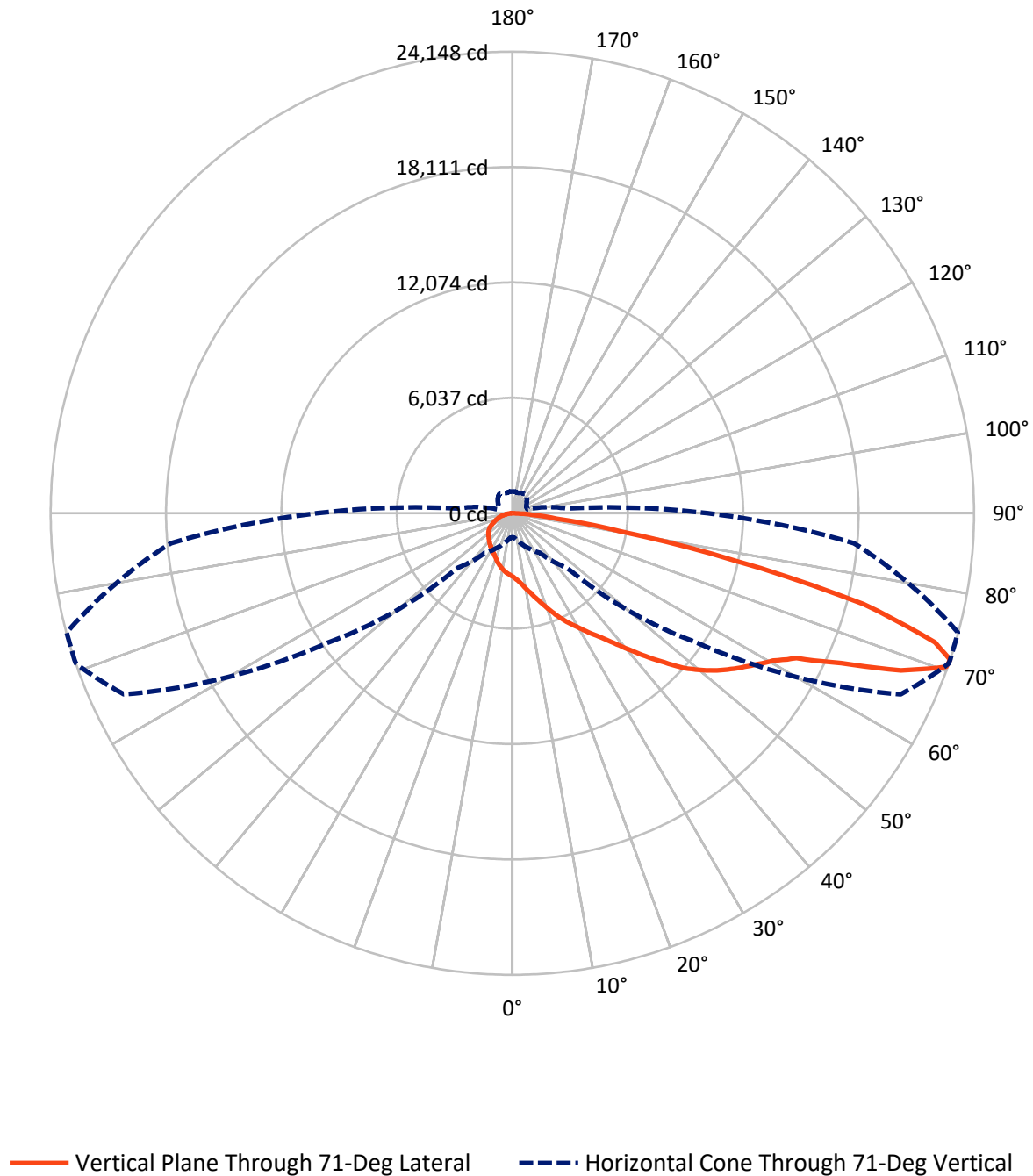


Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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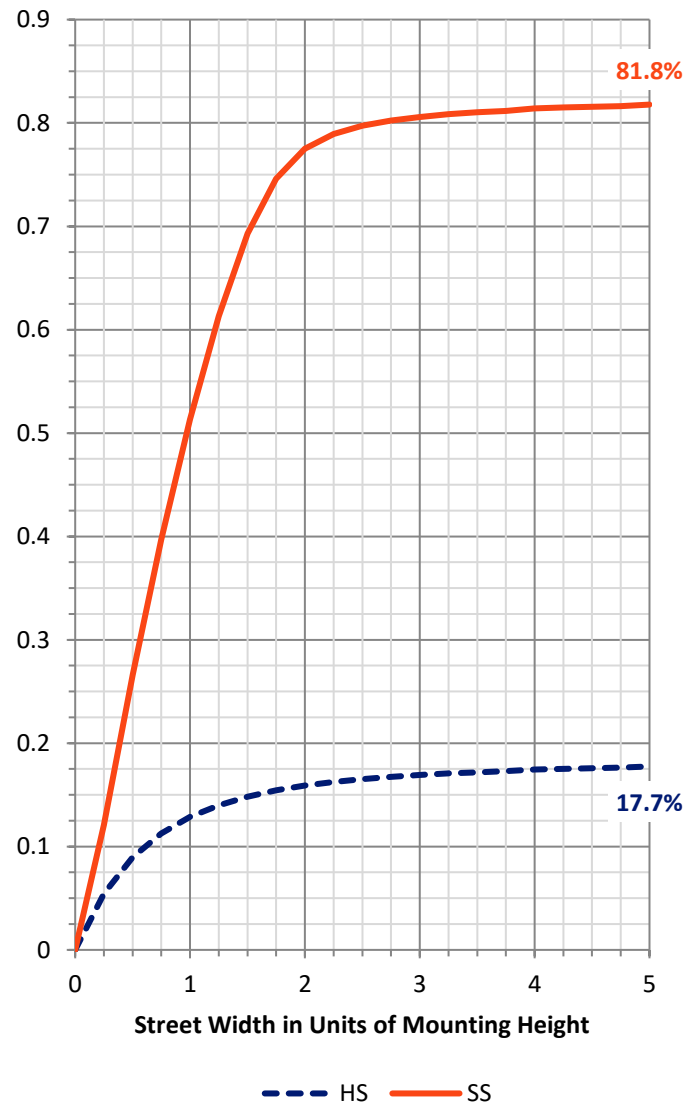
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4849.8	0.0	4849.8
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	22116.2	0.0	22116.2
	% Fixture	82.0	0.0	82.0
Total	Lumens	26966.0	0.0	26966.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.3	1.2
10°-20°	1079.6	4.0
20°-30°	1886.7	7.0
30°-40°	2806.3	10.4
40°-50°	4134.7	15.3
50°-60°	5788.6	21.5
60°-70°	6474.3	24.0
70°-80°	3954.8	14.7
80°-90°	508.7	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°	26966.0	100.0
0°-180°	26966.0	100.0

Coefficient of Utilization



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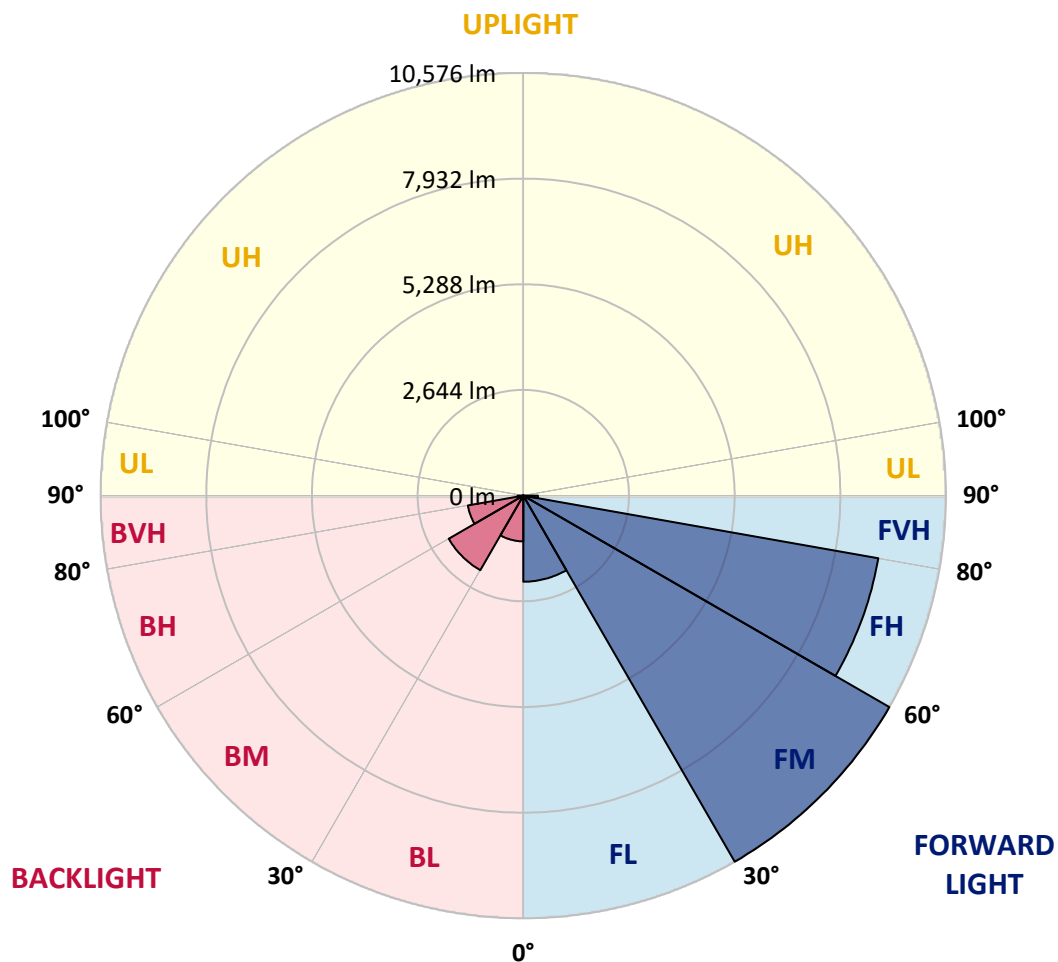
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2154.6	8.0			
FM	(30°-60°)	10575.5	39.2			
FH	(60°-80°)	9020.0	33.4			G4/12000
FVH	(80°-90°)	366.1	1.4			G3/500
BL	(0°-30°)	1144.0	4.2	B3/2500		
BM	(30°-60°)	2154.0	8.0	B2/2500		
BH	(60°-80°)	1409.1	5.2	B3/2500		G3/2500
BVH	(80°-90°)	142.7	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3309.5	3309.5	3309.5	3309.5	3309.5	3309.5	3309.5	3309.5	3309.5	3309.5	3309.5
2.5°	3674.1	3656.4	3657.8	3632.6	3600.0	3564.5	3514.1	3469.6	3434.0	3413.3	3352.5
5°	4071.3	4053.6	4031.3	3976.5	3952.8	3865.3	3754.2	3653.4	3576.3	3533.3	3411.8
7.5°	4393.0	4388.5	4382.6	4351.5	4290.7	4169.2	4074.3	3899.4	3785.3	3703.8	3496.3
10°	4591.6	4599.0	4603.4	4609.4	4584.2	4520.4	4390.0	4169.2	4023.9	3920.2	3606.0
12.5°	4692.4	4699.8	4725.0	4779.8	4813.9	4806.5	4699.8	4483.4	4283.3	4146.9	3723.1
15°	4754.6	4766.5	4810.9	4883.5	4997.7	5070.3	5018.4	4818.3	4599.0	4437.4	3862.4
17.5°	4822.8	4836.1	4885.0	4988.8	5138.5	5295.6	5351.9	5180.0	4941.3	4748.7	4018.0
20°	4861.3	4879.1	4948.8	5085.1	5260.0	5488.2	5675.0	5584.6	5323.7	5110.3	4197.3
22.5°	4923.6	4938.4	4997.7	5142.9	5351.9	5637.9	5998.1	5978.8	5749.1	5473.4	4394.4
25°	5092.5	5116.2	5145.9	5233.3	5434.9	5790.6	6266.3	6399.7	6161.1	5852.8	4575.3
27.5°	5411.2	5430.4	5429.0	5440.8	5554.9	5922.5	6499.0	6816.2	6570.2	6236.7	4750.2
30°	5774.3	5781.7	5787.6	5760.9	5786.1	6057.4	6712.5	7228.2	6982.2	6630.9	4902.8
32.5°	6216.0	6230.8	6180.4	6112.2	6091.5	6257.5	6888.8	7640.3	7469.8	7031.1	5054.0
35°	6737.7	6776.2	6673.9	6553.9	6469.4	6545.0	7126.0	8061.2	7969.3	7542.4	5254.1
37.5°	7333.5	7380.9	7286.0	7050.4	6930.3	6951.1	7435.7	8581.4	8600.7	8124.9	5552.0
40°	7821.1	7883.3	7886.3	7552.8	7370.5	7394.2	7828.5	9141.6	9362.5	8845.2	5903.2
42.5°	8142.7	8203.5	8267.2	8071.6	7880.4	8015.2	8286.5	9749.3	10219.1	9719.7	6393.8
45°	8495.4	8550.3	8585.8	8496.9	8390.2	8740.0	8839.3	10395.5	11132.1	10696.4	6930.3
47.5°	8904.5	8965.3	8999.4	8914.9	8874.9	9375.8	9435.1	10998.7	12107.3	11644.9	7523.2
50°	9449.9	9495.9	9478.1	9424.7	9415.8	9863.4	10007.2	11563.4	12912.1	12666.1	8138.2
52.5°	10128.7	10183.6	10202.8	10127.2	10093.1	10211.7	10468.1	12077.7	13644.3	13543.5	8794.8
55°	10539.3	10626.7	10920.2	11038.7	11120.2	10662.3	10964.6	12645.3	14300.8	14468.3	9500.3
57.5°	10013.1	10125.8	10782.3	11375.2	12141.4	11788.7	11668.6	13238.2	14957.4	15365.0	10345.1
60°	8729.6	8754.8	9601.1	10693.4	12234.8	13236.7	13137.4	14180.8	15668.8	16269.1	11458.2
62.5°	6055.9	6109.2	7109.7	8852.6	11081.7	13758.4	15636.2	15808.2	16688.5	17622.3	13090.0
65°	3122.8	3053.1	3964.6	5563.8	8354.6	12519.4	17660.8	18800.5	18899.8	19738.7	15387.2
67.5°	1922.3	1953.4	2380.3	3248.8	4939.9	9098.7	17448.8	22456.9	21933.7	22336.8	17520.0
70°	1443.6	1482.1	1775.6	2223.2	3011.6	5202.2	14032.6	23343.2	24073.9	23970.1	18169.1
71°	1255.3	1295.4	1600.7	2023.1	2530.0	4015.0	11822.8	22415.4	24148.0	24130.2	17924.6
72.5°	1070.1	1095.3	1333.9	1713.3	2132.8	2814.5	8882.3	20103.3	23117.9	23709.3	17051.6
75°	840.4	859.6	966.3	1307.2	1679.2	1728.1	4766.5	15071.5	18987.3	20113.7	14195.6
77.5°	684.7	698.1	752.9	970.8	1295.4	1224.2	2500.3	9810.1	11895.4	13029.2	8362.0
80°	543.9	558.8	591.4	658.1	970.8	873.0	1193.1	4971.0	5746.1	5734.3	3337.7
82.5°	422.4	426.8	465.4	483.2	664.0	619.5	646.2	2104.6	2331.4	2408.4	1205.0
85°	266.8	280.1	412.0	370.5	397.2	363.1	318.7	835.9	1030.1	1015.2	481.7
87.5°	81.5	86.0	139.3	157.1	176.4	158.6	117.1	246.0	300.9	326.1	120.1
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°	3309.5	3309.5	3309.5	3309.5	3309.5	3309.5	3309.5	3309.5	3309.5	3309.5	3309.5
2.5°	3328.8	3312.5	3254.7	3207.3	3162.8	3113.9	3072.4	3060.6	3050.2	3045.7	3044.2
5°	3359.9	3311.0	3196.9	3103.5	3029.4	2961.2	2918.3	2899.0	2879.7	2879.7	2885.7
7.5°	3404.4	3315.5	3139.1	2999.8	2906.4	2842.7	2811.6	2808.6	2813.0	2817.5	2819.0
10°	3453.3	3312.5	3054.6	2881.2	2798.2	2768.6	2770.1	2795.3	2819.0	2836.8	2839.7
12.5°	3500.7	3294.7	2955.3	2770.1	2716.7	2722.6	2764.1	2820.4	2866.4	2891.6	2893.1
15°	3554.1	3266.6	2835.3	2664.8	2647.0	2693.0	2770.1	2856.0	2925.7	2967.2	2971.6
17.5°	3598.6	3219.1	2709.3	2562.6	2584.8	2669.3	2776.0	2887.1	2971.6	3023.5	3032.4
20°	3648.9	3158.4	2578.9	2464.7	2528.5	2642.6	2764.1	2884.2	2971.6	3022.0	3033.9
22.5°	3689.0	3072.4	2454.4	2384.7	2478.1	2610.0	2724.1	2820.4	2891.6	2918.3	2936.1
25°	3705.3	2964.2	2337.3	2319.5	2438.1	2556.6	2633.7	2688.5	2710.8	2707.8	2715.2
27.5°	3696.4	2839.7	2236.5	2267.6	2387.7	2473.6	2512.2	2507.7	2467.7	2430.7	2448.4
30°	3659.3	2691.5	2152.0	2214.3	2322.5	2369.9	2364.0	2306.2	2230.6	2160.9	2165.4
32.5°	3592.6	2531.4	2073.5	2153.5	2230.6	2251.3	2211.3	2135.7	2027.5	1937.1	1923.8
35°	3536.3	2378.8	2003.8	2083.8	2138.7	2128.3	2089.8	1992.0	1894.1	1814.1	1800.8
37.5°	3527.4	2248.4	1937.1	2005.3	2036.4	2021.6	1974.2	1891.2	1855.6	1794.8	1787.4
40°	3574.8	2156.5	1868.9	1922.3	1937.1	1925.3	1873.4	1826.0	1858.6	1843.7	1843.7
42.5°	3703.8	2107.6	1808.2	1839.3	1851.2	1860.0	1823.0	1783.0	1823.0	1754.8	1732.6
45°	3908.3	2109.0	1753.3	1757.8	1793.3	1824.5	1799.3	1740.0	1719.2	1582.9	1556.2
47.5°	4209.2	2159.4	1708.9	1680.7	1744.4	1796.3	1760.7	1674.8	1582.9	1492.5	1476.2
50°	4560.4	2249.8	1668.9	1600.7	1679.2	1760.7	1734.1	1633.3	1538.4	1483.6	1473.2
52.5°	4950.2	2364.0	1619.9	1511.7	1599.2	1744.4	1740.0	1627.4	1496.9	1459.9	1451.0
55°	5431.9	2476.6	1559.2	1408.0	1528.1	1731.1	1723.7	1578.4	1488.0	1461.4	1458.4
57.5°	5992.2	2639.6	1471.7	1302.8	1446.5	1676.3	1660.0	1548.8	1458.4	1439.1	1437.6
60°	6894.8	2893.1	1347.2	1206.4	1363.5	1579.9	1600.7	1498.4	1411.0	1406.5	1405.0
62.5°	8081.9	3248.8	1218.3	1107.1	1267.2	1455.4	1514.7	1430.2	1360.6	1382.8	1385.8
65°	9721.1	3548.2	1084.9	1022.7	1160.5	1335.4	1433.2	1366.5	1304.3	1347.2	1347.2
67.5°	10789.7	3554.1	963.4	935.2	1052.3	1234.6	1347.2	1290.9	1231.6	1304.3	1307.2
70°	10567.4	3113.9	862.6	843.3	947.1	1126.4	1252.4	1207.9	1139.7	1205.0	1181.2
71°	10208.8	2869.4	822.6	807.7	905.6	1074.5	1207.9	1170.9	1102.7	1145.7	1132.3
72.5°	9636.7	2491.4	757.4	760.3	843.3	1009.3	1145.7	1107.1	1039.0	1062.7	1058.2
75°	8145.7	2175.7	647.7	661.0	724.8	898.2	1021.2	991.5	921.9	921.9	917.4
77.5°	5092.5	1520.6	538.0	545.4	615.1	769.2	877.4	852.2	785.5	763.3	757.4
80°	1900.1	785.5	420.9	429.8	472.8	606.2	726.2	702.5	634.3	609.1	585.4
82.5°	718.8	394.2	309.8	302.3	348.3	462.4	569.1	541.0	487.6	426.8	409.1
85°	271.2	195.6	189.7	183.8	204.5	274.2	352.7	346.8	290.5	247.5	243.1
87.5°	71.1	63.7	74.1	54.8	57.8	51.9	53.4	22.2	10.4	4.4	3.0
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)