

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: P454098

Luminaire Tested: **GALN-SA5A-830-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18047 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 154
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



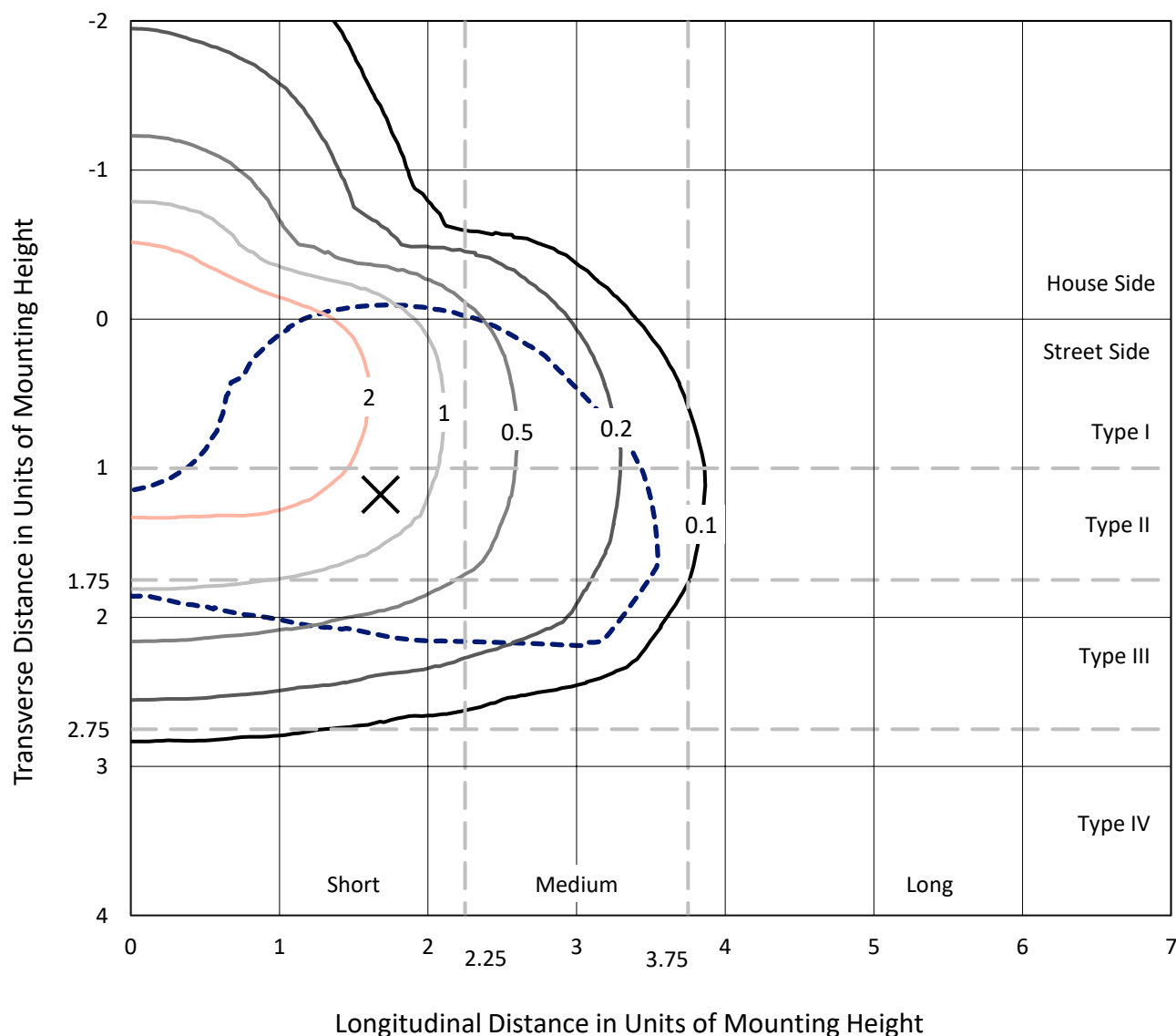
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

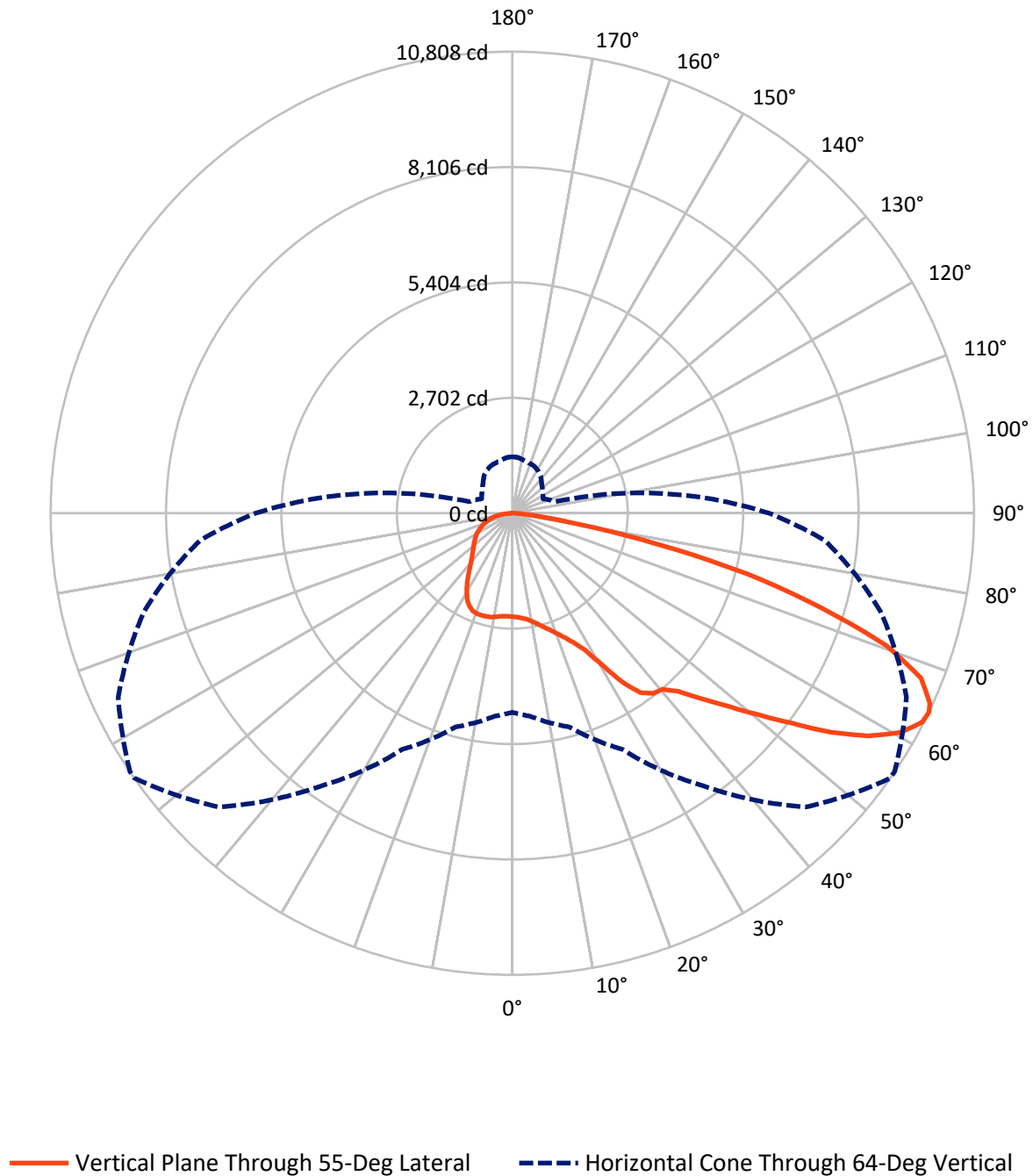


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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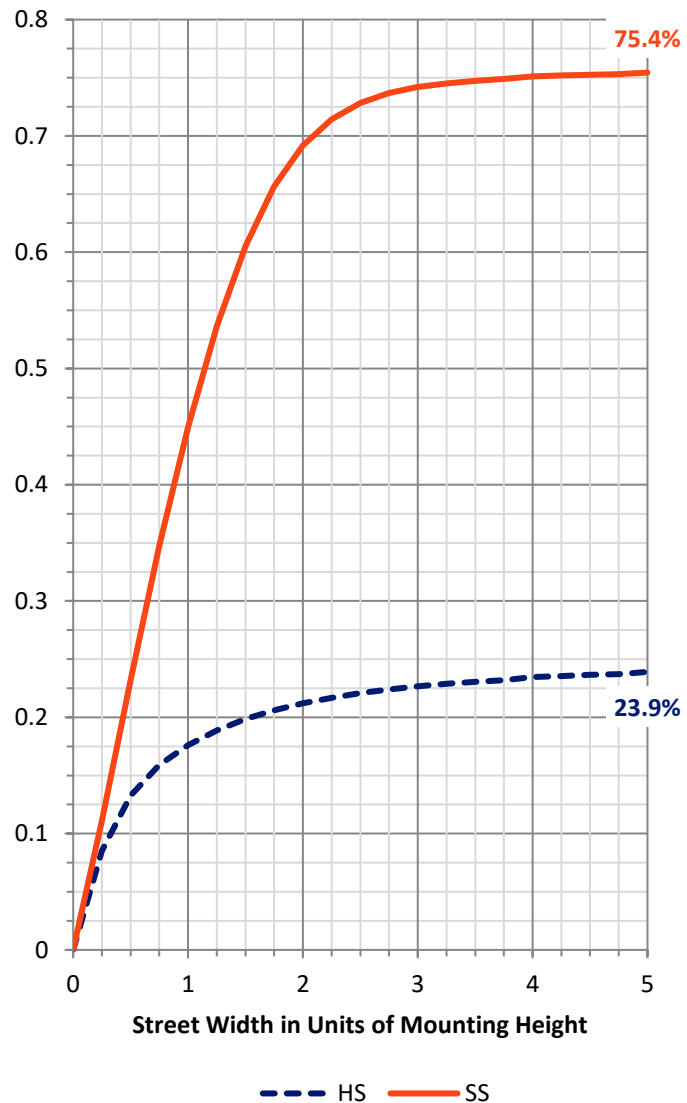
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4384.0	0.0	4384.0
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	13663.0	0.0	13663.0
	% Fixture	75.7	0.0	75.7
Total	Lumens	18047.0	0.0	18047.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.5	1.3
10°-20°	743.2	4.1
20°-30°	1323.1	7.3
30°-40°	2035.7	11.3
40°-50°	2885.7	16.0
50°-60°	4177.0	23.1
60°-70°	4322.8	24.0
70°-80°	2024.4	11.2
80°-90°	299.7	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°	18047.0	100.0
0°-180°	18047.0	100.0

Coefficient of Utilization



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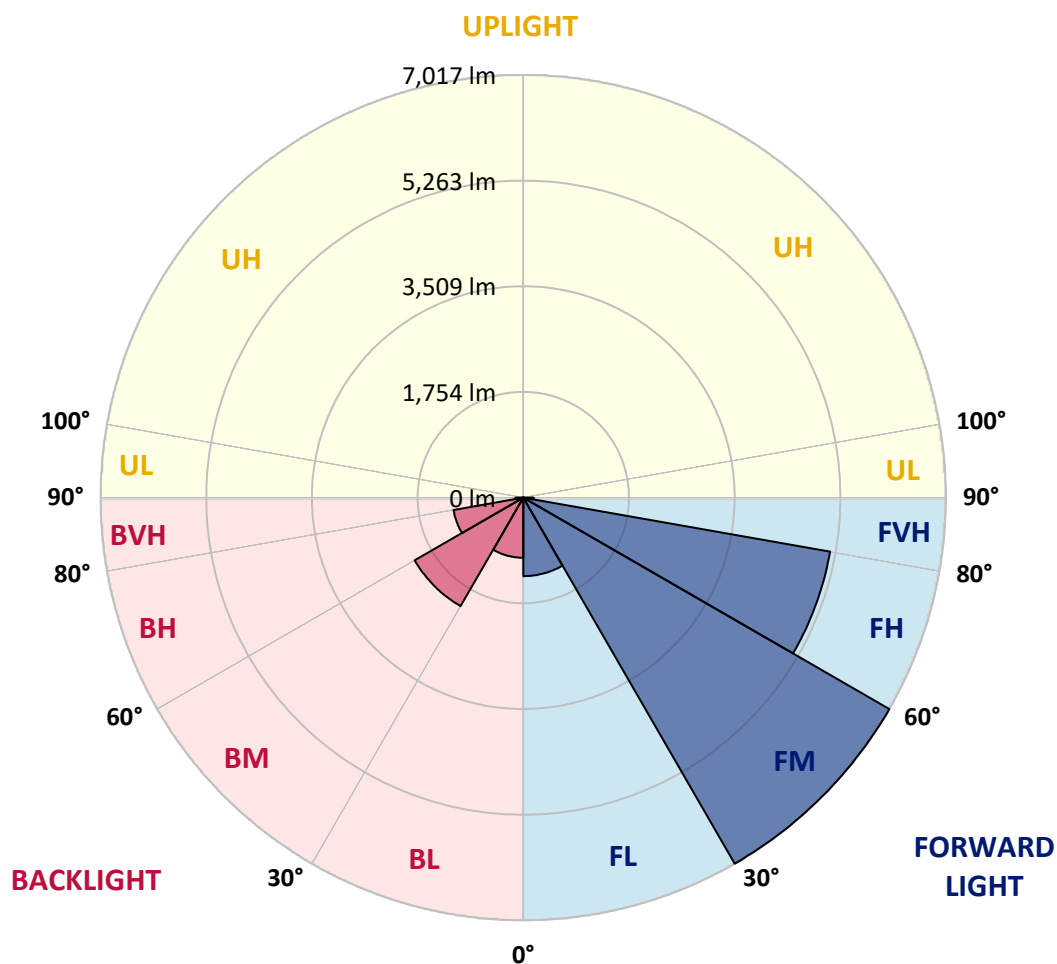
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1303.3	7.2			
FM	(30°-60°)	7017.2	38.9			
FH	(60°-80°)	5171.0	28.7			G3/7500
FVH	(80°-90°)	171.6	1.0			G2/225
BL	(0°-30°)	998.5	5.5	B2/1000		
BM	(30°-60°)	2081.2	11.5	B2/2500		
BH	(60°-80°)	1176.1	6.5	B3/2500		G3/2500
BVH	(80°-90°)	128.1	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2421.4	2421.4	2421.4	2421.4	2421.4	2421.4	2421.4	2421.4	2421.4	2421.4	2421.4
2.5°	2448.5	2447.5	2450.5	2447.5	2449.5	2442.5	2439.5	2441.5	2438.5	2433.4	2424.4
5°	2478.7	2477.7	2478.7	2474.7	2476.7	2472.7	2465.6	2467.6	2462.6	2451.5	2438.5
7.5°	2530.0	2526.0	2526.0	2525.0	2521.0	2514.9	2509.9	2507.9	2502.8	2488.8	2468.6
10°	2596.4	2596.4	2597.4	2589.4	2594.4	2583.3	2578.3	2577.3	2560.2	2542.1	2513.9
12.5°	2683.9	2688.9	2685.9	2681.9	2679.9	2675.9	2658.8	2662.8	2643.7	2612.5	2578.3
15°	2792.6	2800.6	2795.6	2793.6	2788.5	2773.5	2766.4	2763.4	2738.2	2693.0	2647.7
17.5°	2936.4	2926.4	2922.3	2917.3	2896.2	2885.1	2873.0	2871.0	2848.9	2795.6	2725.2
20°	3062.2	3076.2	3068.2	3063.2	3042.0	3020.9	3011.9	3008.8	2989.7	2931.4	2818.7
22.5°	3212.1	3215.1	3218.1	3206.0	3196.0	3179.9	3163.8	3158.7	3151.7	3091.3	2953.5
25°	3372.0	3384.1	3374.0	3361.9	3349.9	3348.9	3364.0	3361.9	3358.9	3300.6	3132.6
27.5°	3632.5	3643.6	3646.6	3633.6	3587.3	3591.3	3625.5	3636.6	3682.8	3586.3	3362.9
30°	3779.4	3790.5	3815.6	3864.9	3938.4	4002.7	4085.2	4110.4	4154.6	3972.6	3636.6
32.5°	3870.0	3874.0	3919.2	4010.8	4231.1	4471.5	4695.9	4704.9	4733.1	4477.6	3887.1
35°	4012.8	4015.8	4052.0	4152.6	4411.2	4811.5	5158.6	5169.7	5146.5	4634.5	4003.7
37.5°	4188.8	4196.9	4220.0	4303.5	4612.4	5096.2	5350.7	5342.7	5137.5	4759.2	4210.0
40°	4445.4	4445.4	4418.2	4530.9	4824.6	5259.2	5418.1	5404.1	5349.7	5120.4	4523.8
42.5°	4671.7	4667.7	4732.1	4808.5	5090.2	5510.7	5700.8	5724.0	5813.5	5574.1	4881.0
45°	4966.5	4984.6	5020.8	5159.6	5541.9	5940.2	6185.7	6207.8	6334.6	6108.2	5298.4
47.5°	5264.2	5270.3	5383.9	5569.0	6101.2	6522.7	6723.9	6760.1	6875.8	6732.9	5748.1
50°	5475.5	5532.8	5714.9	6006.6	6677.6	7232.9	7389.8	7433.1	7637.3	7413.0	6272.2
52.5°	5698.8	5755.1	5977.5	6422.1	7339.5	7959.2	8152.4	8181.5	8393.8	8101.1	6808.4
55°	5889.9	5942.2	6194.7	6790.3	7866.7	8700.6	9050.7	9016.5	9118.1	8631.2	7221.8
57.5°	5921.1	5963.4	6281.3	7025.7	8263.0	9336.4	9838.4	9858.5	9740.8	9027.5	7562.9
60°	5679.7	5766.2	6131.4	7000.5	8441.1	9779.0	10425.8	10439.9	10105.9	9230.8	7698.7
62.5°	5252.2	5243.1	5684.7	6596.1	8191.6	9879.6	10771.9	10756.8	10248.8	9133.2	7566.9
64°	4661.7	4770.3	5182.7	6099.2	7789.2	9724.7	10808.1	10800.1	10180.4	8930.0	7342.6
65°	4301.5	4295.5	4702.9	5692.8	7388.8	9491.3	10743.7	10732.7	10037.5	8747.9	7168.5
67.5°	3105.4	3119.5	3521.9	4393.1	6006.6	8578.9	10324.2	10283.0	9474.2	8144.3	6506.6
70°	1881.2	1889.2	2205.1	2914.3	4311.6	6935.1	9306.2	9308.2	8612.1	7243.0	5537.8
72.5°	990.9	1012.0	1138.8	1654.8	2618.5	4865.9	7549.8	7728.8	7393.9	6181.7	4375.0
75°	551.3	554.3	643.8	815.8	1335.9	2723.2	5674.7	5726.0	5853.7	4975.5	3235.2
77.5°	420.5	426.5	454.7	527.1	727.3	1262.5	3434.4	3691.9	4125.5	3507.8	1845.9
80°	341.0	347.1	371.2	414.5	483.9	598.6	1595.5	1734.3	2208.1	1557.2	720.3
82.5°	265.6	261.6	292.7	320.9	352.1	354.1	654.9	724.3	899.3	670.0	311.8
85°	197.2	197.2	222.3	216.3	227.3	207.2	288.7	318.9	360.1	284.7	144.9
87.5°	78.5	86.5	145.9	130.8	101.6	81.5	106.6	112.7	124.7	111.7	60.4
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°	2421.4	2421.4	2421.4	2421.4	2421.4	2421.4	2421.4	2421.4	2421.4	2421.4	2421.4
2.5°	2425.4	2428.4	2421.4	2416.3	2414.3	2411.3	2408.3	2409.3	2413.3	2417.3	2416.3
5°	2437.5	2438.5	2426.4	2420.4	2416.3	2412.3	2412.3	2415.3	2423.4	2429.4	2429.4
7.5°	2467.6	2467.6	2450.5	2439.5	2433.4	2426.4	2424.4	2425.4	2431.4	2439.5	2440.5
10°	2514.9	2510.9	2488.8	2471.7	2460.6	2443.5	2428.4	2420.4	2423.4	2428.4	2428.4
12.5°	2572.3	2561.2	2533.0	2509.9	2482.7	2450.5	2419.4	2403.3	2402.2	2407.3	2405.3
15°	2633.6	2621.6	2582.3	2540.1	2492.8	2445.5	2408.3	2385.1	2367.0	2362.0	2373.1
17.5°	2705.0	2679.9	2625.6	2567.2	2496.8	2435.4	2377.1	2329.8	2297.6	2288.6	2291.6
20°	2791.6	2758.4	2684.9	2593.4	2493.8	2399.2	2308.7	2245.3	2193.0	2176.9	2178.9
22.5°	2911.3	2853.9	2746.3	2606.5	2468.6	2330.8	2205.1	2122.6	2059.2	2034.1	2049.2
25°	3047.1	2984.7	2804.6	2603.4	2403.3	2221.2	2082.4	1974.7	1917.4	1880.2	1888.2
27.5°	3234.2	3123.5	2867.0	2576.3	2309.7	2087.4	1926.4	1824.8	1772.5	1753.4	1762.5
30°	3473.6	3303.6	2934.4	2502.8	2161.8	1918.4	1769.5	1703.1	1671.9	1647.8	1655.8
32.5°	3646.6	3430.3	2949.5	2379.1	2001.9	1764.5	1662.9	1613.6	1579.4	1556.2	1561.3
35°	3770.4	3538.0	2942.5	2227.2	1834.9	1637.7	1578.4	1538.1	1482.8	1432.5	1423.4
37.5°	3936.3	3672.8	2891.1	2061.2	1669.9	1552.2	1510.0	1435.5	1356.0	1288.6	1285.6
40°	4190.9	3830.7	2781.5	1866.1	1529.1	1488.8	1437.5	1341.0	1255.4	1201.1	1197.1
42.5°	4453.4	3976.6	2632.6	1660.9	1413.4	1422.4	1360.1	1264.5	1212.2	1177.0	1173.0
45°	4774.3	4134.5	2471.7	1482.8	1327.9	1360.1	1292.7	1237.3	1206.2	1183.0	1177.0
47.5°	5121.4	4296.5	2290.6	1322.8	1255.4	1302.7	1264.5	1239.4	1222.2	1206.2	1199.1
50°	5495.6	4477.6	2120.6	1194.1	1190.1	1243.4	1261.5	1252.4	1242.4	1237.3	1231.3
52.5°	5906.0	4662.7	1977.7	1103.5	1132.7	1201.1	1262.5	1269.5	1269.5	1266.5	1262.5
55°	6183.7	4791.4	1832.9	1030.1	1074.4	1166.9	1260.5	1287.6	1297.7	1293.7	1289.6
57.5°	6388.9	4861.8	1650.8	966.7	1025.1	1133.7	1249.4	1289.6	1299.7	1304.7	1302.7
60°	6431.1	4796.5	1412.4	900.3	971.8	1085.4	1209.2	1259.5	1272.5	1303.7	1306.8
62.5°	6241.0	4595.3	1175.0	835.0	906.4	1012.0	1154.9	1225.3	1251.4	1299.7	1304.7
64°	6007.6	4369.9	1043.2	793.7	864.1	970.8	1127.7	1216.2	1250.4	1314.8	1318.8
65°	5836.6	4205.9	960.7	767.6	837.0	943.6	1112.6	1219.2	1259.5	1337.9	1344.0
67.5°	5206.9	3641.6	794.7	706.2	772.6	897.3	1115.6	1244.4	1257.5	1347.0	1346.0
70°	4308.6	2899.2	666.0	649.9	710.2	860.1	1103.5	1204.1	1205.1	1264.5	1250.4
72.5°	3226.1	2142.7	577.4	591.5	640.8	771.6	1042.2	1149.8	1132.7	1140.8	1126.7
75°	2216.1	1417.4	496.9	529.1	568.4	682.0	955.7	1044.2	1017.0	1007.0	996.9
77.5°	1183.0	783.6	413.5	467.8	493.9	589.5	833.9	919.5	891.3	852.1	839.0
80°	478.8	369.2	333.0	387.3	402.4	474.8	694.1	747.4	726.3	657.9	635.8
82.5°	240.4	221.3	261.6	304.8	305.8	339.0	516.1	566.4	519.1	435.6	416.5
85°	125.7	129.8	180.1	214.3	189.1	183.1	309.8	343.0	314.9	273.6	246.5
87.5°	45.3	52.3	94.6	93.6	66.4	35.2	68.4	33.2	18.1	11.1	14.1
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)