

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: P651445

Luminaire Tested: **GALN-SA6D-840-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651445  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-840-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38957.7 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

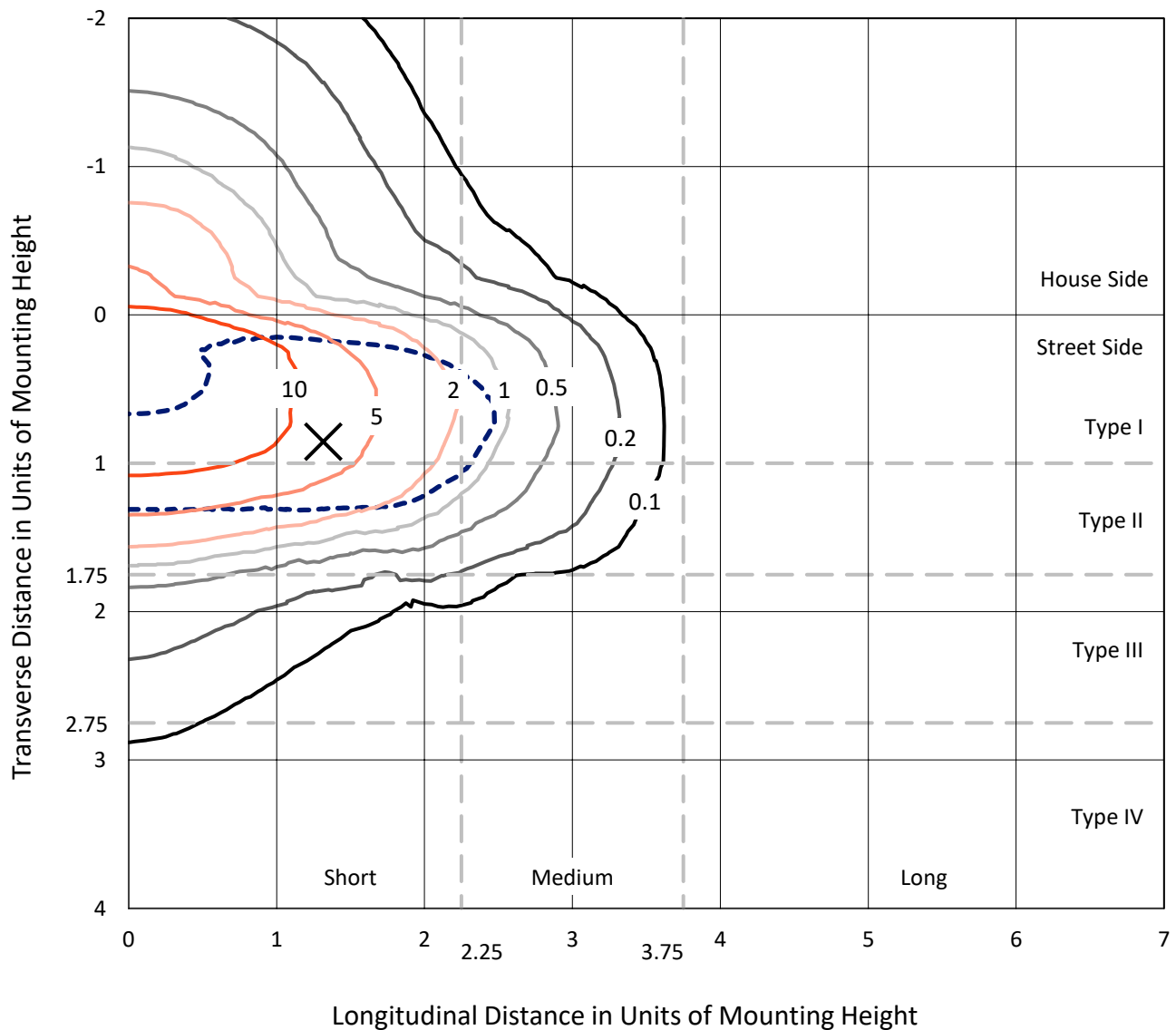
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

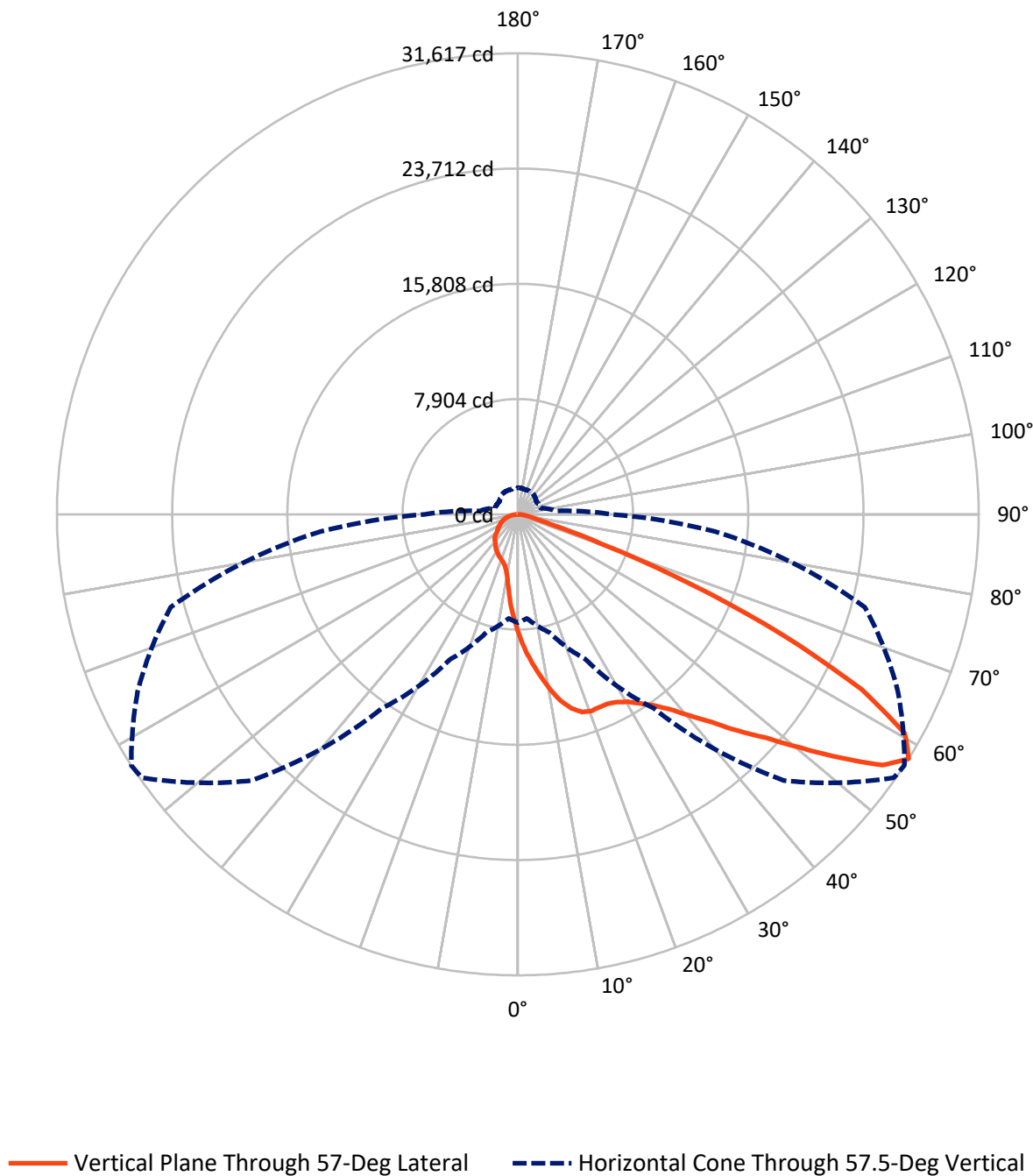
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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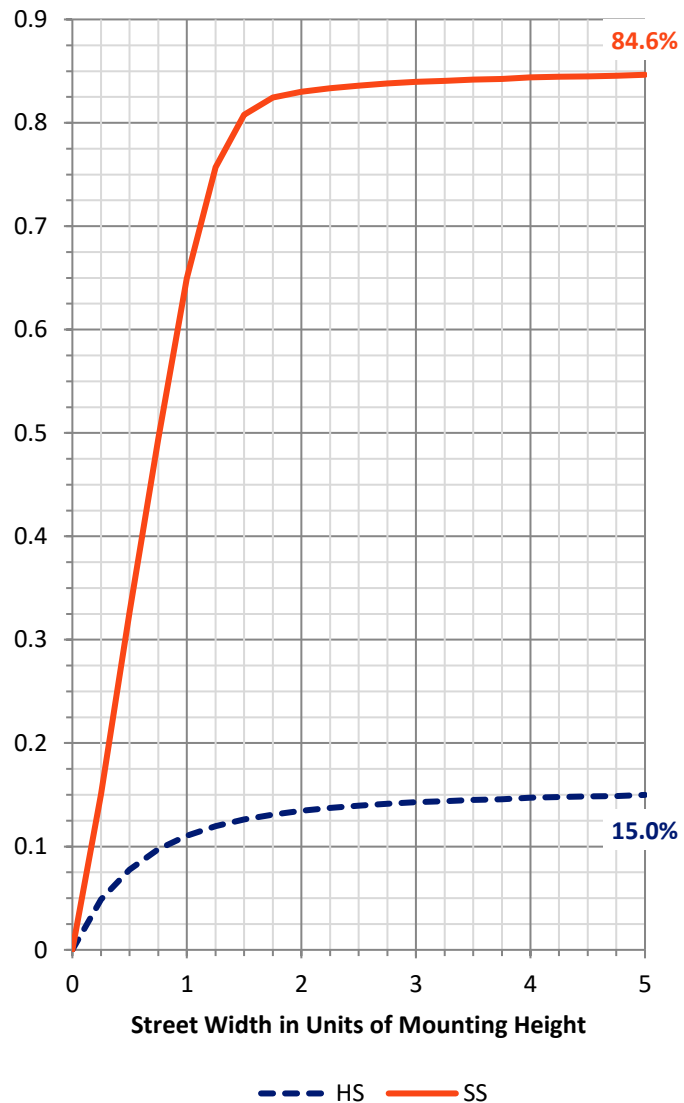
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5924.4	0.0	5924.4
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	33033.3	0.0	33033.3
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	38957.7	0.0	38957.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	786.6	2.0
10°-20°	2318.2	6.0
20°-30°	3849.4	9.9
30°-40°	5798.3	14.9
40°-50°	8705.6	22.3
50°-60°	9757.9	25.0
60°-70°	5710.8	14.7
70°-80°	1689.2	4.3
80°-90°	341.4	0.9
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°	38957.7	100.0
0°-180°	38957.7	100.0

**Coefficient of Utilization**



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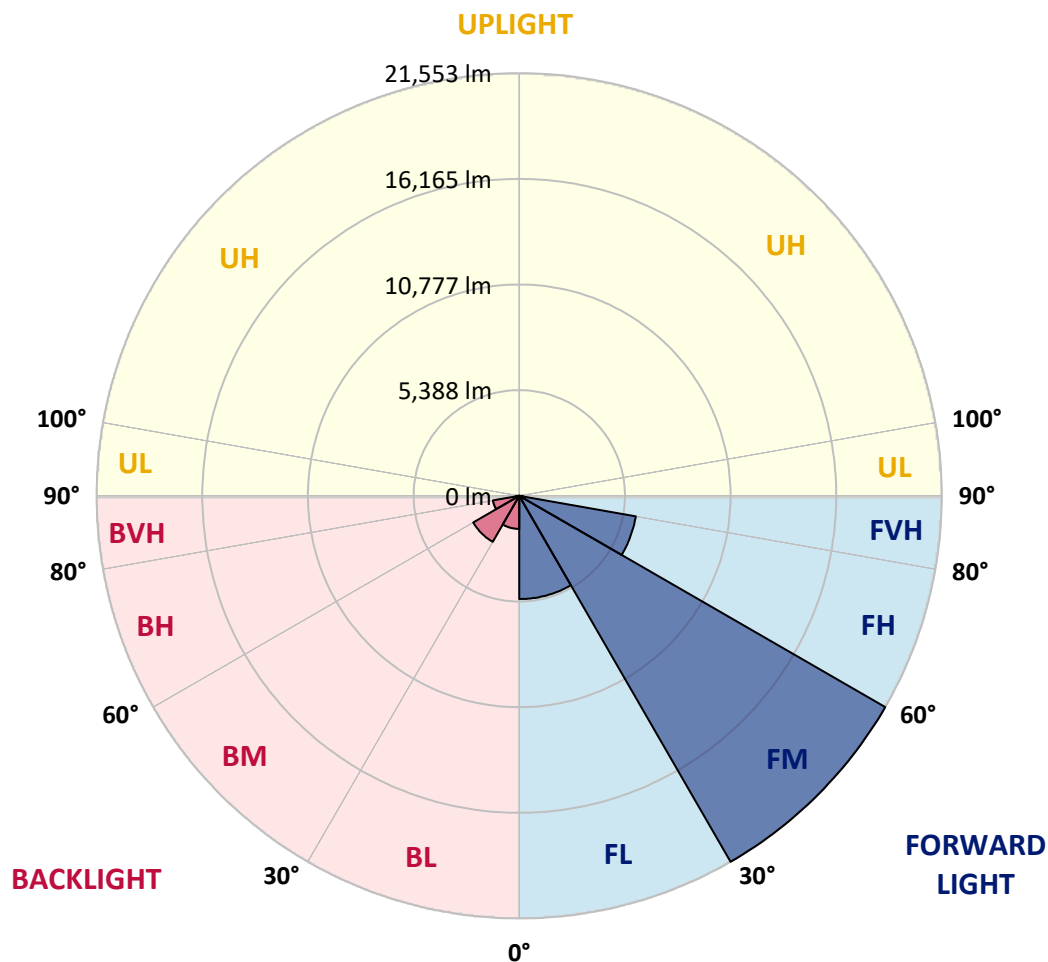
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5266.2	13.5			
FM	(30°-60°)	21553.1	55.3			
FH	(60°-80°)	6036.9	15.5			G3/7500
FVH	(80°-90°)	177.2	0.5			G2/225
BL	(0°-30°)	1688.1	4.3	B3/2500		
BM	(30°-60°)	2708.9	7.0	B3/5000		
BH	(60°-80°)	1363.2	3.5	B3/2500		G3/2500
BVH	(80°-90°)	164.3	0.4			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 II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	8184.5	8184.5	8184.5	8184.5	8184.5	8184.5	8184.5	8184.5	8184.5	8184.5	8184.5
2.5°	10169.9	10059.0	9971.6	9894.8	9794.6	9523.7	9252.9	9248.6	9033.3	8700.6	8359.5
5°	11826.9	11677.6	11696.8	11458.0	11219.1	10826.7	10253.1	10223.2	9764.8	9142.1	8508.7
7.5°	12905.9	12908.1	12848.4	12711.9	12453.9	12008.1	11357.7	11210.6	10573.0	9628.3	8679.3
10°	12850.5	12908.1	13008.3	13125.6	13204.5	12984.8	12392.0	12212.8	11383.3	10216.8	8869.1
12.5°	12112.7	12202.2	12345.0	12639.4	13114.9	13477.4	13274.8	13129.9	12321.6	10803.2	9078.1
15°	11652.0	11705.3	11784.3	11982.6	12494.3	13362.3	13886.8	13810.1	13206.6	11466.4	9312.6
17.5°	11511.3	11564.6	11590.2	11711.7	12076.3	12965.6	14127.9	14264.4	13991.4	12076.3	9549.4
20°	11652.0	11677.6	11677.6	11750.1	12035.9	12733.2	14117.2	14392.3	14635.4	12807.8	9771.2
22.5°	12020.9	12031.6	12016.6	12042.3	12255.5	12797.2	14016.9	14358.1	15155.7	13428.4	9943.9
25°	12620.1	12637.2	12539.1	12479.4	12635.1	13078.6	14072.4	14385.9	15563.0	14021.2	10059.0
27.5°	13300.4	13321.8	13202.4	13063.8	13136.3	13426.2	14289.9	14571.4	15868.0	14605.6	10131.5
30°	14134.3	14142.8	13942.4	13776.0	13729.1	13944.5	14661.0	14923.3	16247.5	15294.3	10240.3
32.5°	14987.2	15051.2	14793.2	14558.6	14479.7	14545.9	15209.1	15462.8	16699.7	16034.3	10415.2
35°	16147.4	16158.0	15848.8	15563.0	15302.8	15388.2	15910.6	16094.0	17324.4	16889.5	10662.5
37.5°	17595.3	17693.4	17266.9	16733.8	16413.9	16290.2	16759.4	16959.8	18200.9	17938.6	11035.7
40°	19203.2	19239.5	18874.8	18542.1	17957.8	17599.6	17923.7	18141.2	19282.1	19190.4	11468.6
42.5°	20214.0	20292.9	20320.7	20286.5	19847.3	19245.9	19369.6	19471.9	20561.6	20365.4	11912.2
45°	20555.2	20672.5	21069.2	21909.4	21956.2	21363.4	21075.5	21173.6	21956.2	21551.1	12336.5
47.5°	19990.1	20190.6	20922.0	22645.1	23935.2	23980.0	23112.1	22896.7	23227.2	22534.2	12643.6
50°	18529.3	18572.0	19691.6	22186.6	24862.9	26481.4	25583.6	25182.7	24434.2	23261.4	12854.8
52.5°	16268.9	16317.9	17256.2	20056.3	24291.4	28230.1	28475.3	27758.8	25660.4	23826.5	12993.4
55°	12076.3	12360.0	13392.2	16098.3	21583.1	28065.9	30774.2	30366.9	27142.5	24274.3	13210.8
57.5°	7425.4	7165.2	8389.3	10952.5	16232.6	25809.7	31484.3	31616.6	28773.9	24649.6	13575.5
60°	3416.3	3467.4	3972.9	5649.0	9894.8	20190.6	29654.6	30490.5	29675.9	24636.8	13667.3
62.5°	2354.3	2307.4	2179.5	2480.1	4512.4	12769.4	25048.4	26464.4	27867.5	23871.3	13302.6
65°	2104.8	2057.8	1810.5	1727.3	2072.8	5565.8	18209.5	19996.5	23464.0	21939.3	12394.2
67.5°	1966.2	1902.2	1646.3	1484.2	1480.0	2215.7	10737.1	12888.8	17403.4	18548.5	10739.3
70°	1821.2	1770.0	1516.2	1337.1	1260.3	1392.5	4719.3	6177.9	11300.2	13366.5	8365.8
72.5°	1676.1	1616.4	1388.2	1196.3	1096.1	1042.8	1808.4	2352.2	6384.7	8014.0	5128.7
75°	1465.0	1435.2	1241.1	1083.3	974.6	842.3	1147.3	1309.4	3053.8	3680.7	2574.0
77.5°	1281.6	1249.6	1102.5	946.8	867.9	684.6	814.6	889.3	1288.0	1492.8	1162.2
80°	938.3	970.3	929.8	836.0	774.1	537.4	548.1	609.9	765.6	846.6	710.1
82.5°	595.0	654.7	716.5	644.0	586.4	424.4	379.6	403.0	522.4	554.5	315.6
85°	249.5	253.7	415.9	392.4	334.8	251.6	228.2	240.9	279.4	292.2	147.2
87.5°	96.0	93.9	147.2	136.5	104.5	72.5	72.5	81.1	110.9	102.3	46.9
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°	8184.5	8184.5	8184.5	8184.5	8184.5	8184.5	8184.5	8184.5	8184.5	8184.5	8184.5
2.5°	8212.3	8060.9	7760.2	7387.0	7114.0	6807.0	6536.2	6342.1	6269.6	6235.4	6171.5
5°	8205.9	7907.3	7284.7	6632.1	6107.5	5570.1	5115.9	4821.6	4796.0	4599.8	4580.6
7.5°	8208.0	7751.7	6760.0	5800.4	5000.8	4450.6	4075.2	3977.1	3859.9	3830.0	3844.9
10°	8214.4	7553.4	6197.1	4977.3	4203.1	3842.8	3702.0	3663.6	3667.9	3680.7	3682.8
12.5°	8223.0	7361.4	5612.7	4352.4	3755.3	3606.0	3591.2	3625.3	3661.5	3689.2	3695.6
15°	8233.6	7141.8	5043.4	3849.2	3531.4	3518.7	3567.7	3625.3	3676.4	3717.0	3723.4
17.5°	8220.8	6885.9	4565.7	3539.9	3407.7	3469.5	3550.6	3623.1	3670.0	3708.4	3712.7
20°	8190.9	6600.1	4105.1	3322.5	3330.9	3431.2	3518.7	3586.9	3638.1	3657.3	3672.1
22.5°	8075.8	6258.9	3704.2	3154.0	3239.3	3377.9	3482.4	3522.9	3465.3	3424.8	3435.5
25°	7879.6	5815.3	3330.9	3017.5	3156.1	3303.3	3409.8	3311.8	3264.8	3247.8	3256.4
27.5°	7634.3	5329.2	3049.5	2874.6	3049.5	3220.1	3190.2	3173.2	3151.8	3124.1	3130.5
30°	7369.9	4853.6	2810.6	2763.7	2934.3	3032.4	3045.2	3072.9	3049.5	3006.8	3023.9
32.5°	7124.7	4405.7	2629.4	2669.9	2853.3	2838.4	2934.3	2966.3	2857.5	2714.7	2721.1
35°	6915.7	3990.0	2492.9	2578.2	2714.7	2721.1	2817.0	2706.2	2588.9	2520.6	2524.9
37.5°	6757.9	3665.8	2403.3	2499.3	2537.7	2618.7	2567.6	2510.0	2495.0	2448.2	2450.3
40°	6664.1	3382.2	2345.7	2437.5	2431.1	2486.5	2322.3	2379.9	2401.2	2386.3	2388.4
42.5°	6570.2	3181.7	2286.0	2352.2	2350.0	2241.3	2205.0	2254.0	2309.5	2315.9	2311.7
45°	6495.6	3026.0	2224.2	2222.1	2264.7	2094.1	2083.5	2113.3	2192.2	2230.6	2228.5
47.5°	6412.5	2896.0	2130.3	2070.6	2083.5	2002.4	1985.3	1998.1	2094.1	2156.0	2173.1
50°	6307.9	2765.9	2013.1	1932.0	1878.7	1917.1	1921.3	1923.5	2019.5	2089.9	2104.8
52.5°	6224.7	2667.7	1878.7	1819.0	1755.1	1840.4	1872.3	1876.6	1934.2	1991.7	2002.4
55°	6273.9	2612.3	1746.5	1703.9	1646.3	1761.5	1823.3	1831.8	1844.6	1887.3	1893.7
57.5°	6421.0	2625.1	1639.9	1584.4	1541.8	1667.6	1772.1	1778.5	1770.0	1821.2	1829.7
60°	6465.8	2618.7	1561.0	1452.2	1426.7	1567.4	1697.5	1710.3	1708.2	1782.8	1797.7
62.5°	6278.1	2537.7	1482.1	1341.3	1324.3	1465.0	1593.0	1644.2	1654.8	1761.5	1780.6
65°	5836.7	2371.4	1377.6	1224.1	1224.1	1356.3	1492.8	1563.2	1593.0	1735.8	1757.2
67.5°	5254.5	2175.2	1271.0	1123.8	1119.5	1251.7	1386.1	1458.6	1505.6	1699.6	1712.4
70°	4361.0	1910.8	1138.8	1015.1	1015.1	1134.5	1256.0	1343.5	1411.7	1631.4	1631.4
72.5°	2987.7	1588.7	978.8	891.4	893.5	1004.4	1128.1	1226.2	1307.3	1494.9	1499.2
75°	1889.4	1241.1	804.0	759.2	767.7	872.2	1000.1	1102.5	1264.6	1477.8	1484.2
77.5°	1004.4	872.2	639.7	629.1	639.7	735.7	878.6	1019.4	1268.8	1281.6	1260.3
80°	650.4	618.4	505.4	484.1	488.4	592.8	782.6	968.2	1019.4	1032.2	985.2
82.5°	354.0	392.4	358.3	336.9	336.9	462.7	667.5	769.9	731.4	607.8	580.0
85°	151.4	183.4	185.5	162.1	155.7	285.8	447.8	420.1	390.2	373.2	368.9
87.5°	42.6	59.7	59.7	44.7	34.1	78.9	89.6	25.6	0.0	2.1	4.3
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)