

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: P647978

Luminaire Tested: **GALN-SA6A-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647978  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-835-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19160 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

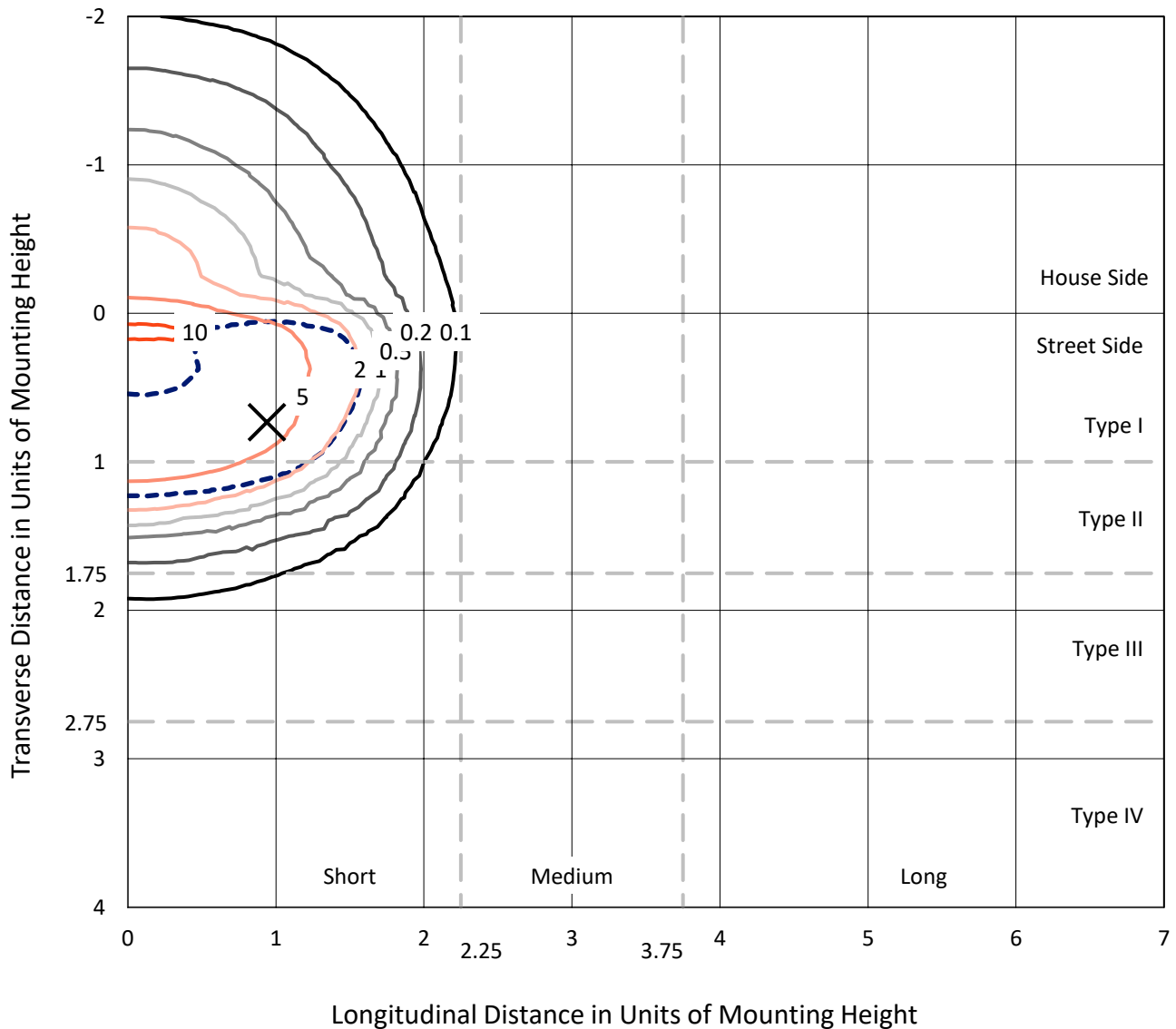
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

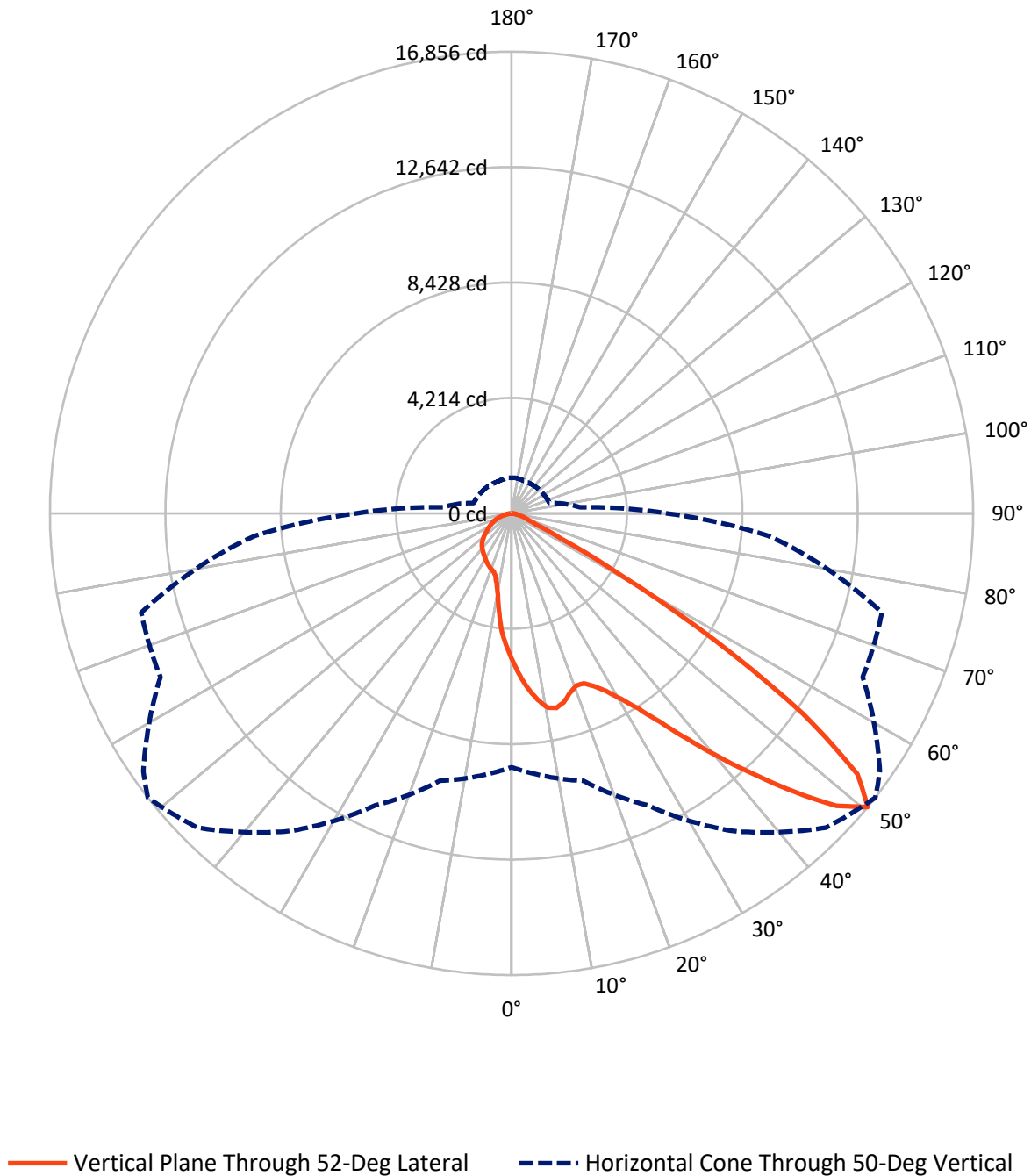
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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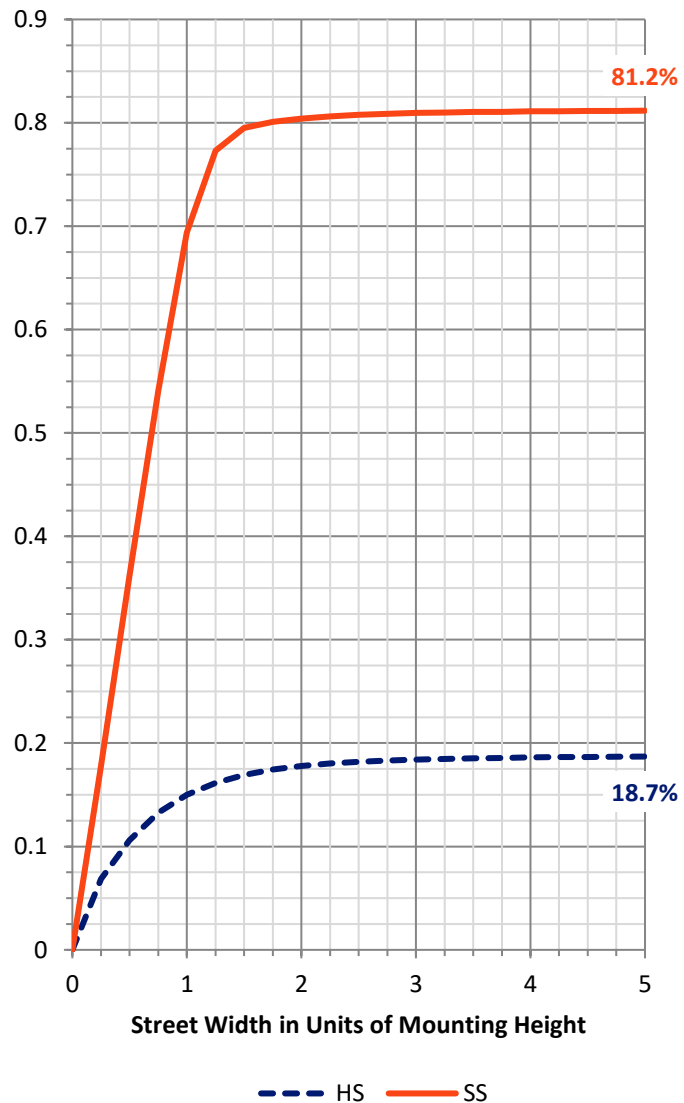
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3601.6	0.0	3601.6
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	15558.4	0.0	15558.4
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	19160.0	0.0	19160.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	497.8	2.6
10°-20°	1334.2	7.0
20°-30°	2247.4	11.7
30°-40°	3771.4	19.7
40°-50°	5769.3	30.1
50°-60°	4206.3	22.0
60°-70°	936.1	4.9
70°-80°	337.6	1.8
80°-90°	59.8	0.3
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°	19160.0	100.0
0°-180°	19160.0	100.0

**Coefficient of Utilization**



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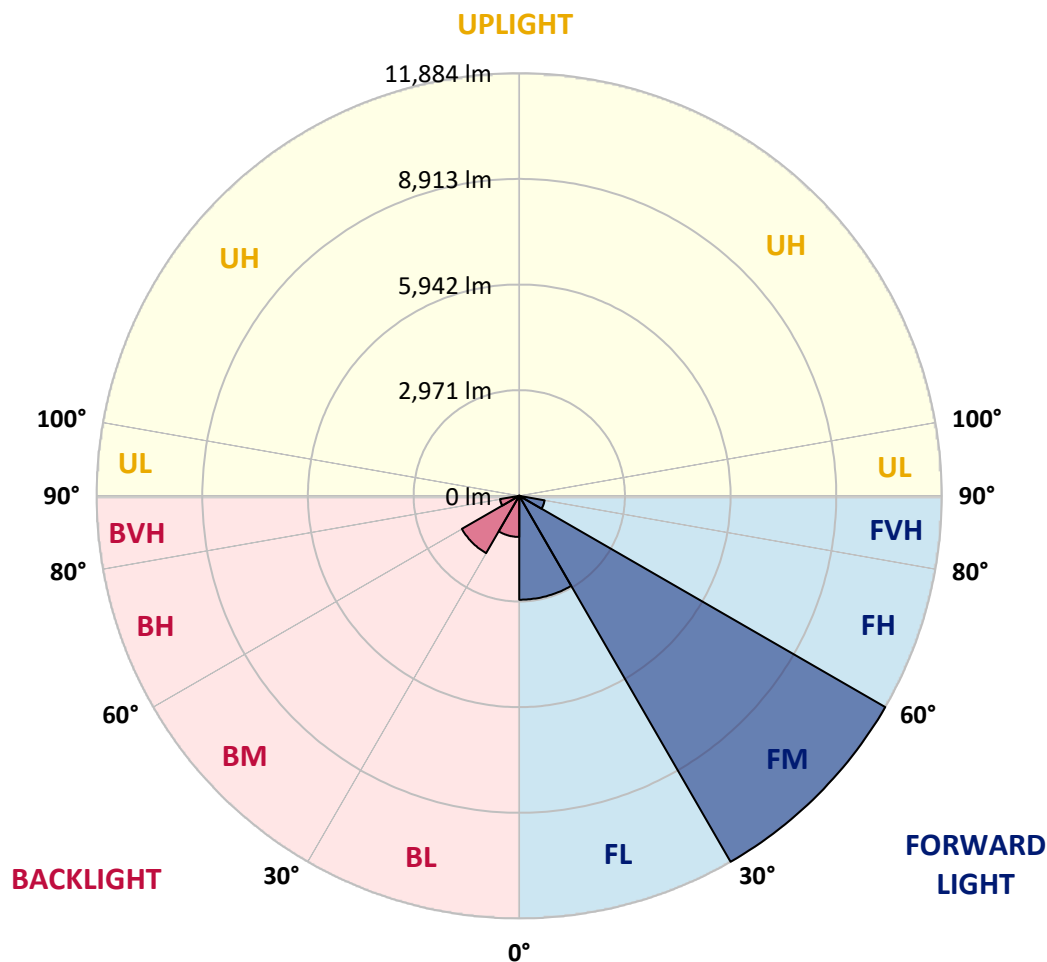
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2922.6	15.3			
FM	(30°-60°)	11884.0	62.0			
FH	(60°-80°)	725.0	3.8			G1/1800
FVH	(80°-90°)	26.8	0.1			G1/100
BL	(0°-30°)	1156.9	6.0	B3/2500		
BM	(30°-60°)	1863.0	9.7	B2/2500		
BH	(60°-80°)	548.7	2.9	B2/1000		G2/1000
BVH	(80°-90°)	33.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	5400.9	5400.9	5400.9	5400.9	5400.9	5400.9	5400.9	5400.9	5400.9	5400.9	5400.9
2.5°	6359.1	6236.8	6250.6	6162.9	6068.2	6040.5	5943.5	5851.1	5781.9	5634.1	5497.8
5°	6950.3	6913.3	6857.9	6788.6	6717.0	6541.6	6442.3	6326.8	6072.8	5844.2	5617.9
7.5°	7035.7	7028.8	7058.8	7058.8	7084.2	7017.2	6876.4	6795.6	6525.4	6153.7	5733.4
10°	6435.3	6456.1	6601.6	6791.0	7054.2	7236.6	7213.5	7192.7	6897.1	6389.2	5869.6
12.5°	5957.4	5911.2	5996.6	6158.3	6553.1	6994.1	7292.0	7294.3	7218.1	6765.5	5968.9
15°	5687.2	5719.5	5742.6	5818.9	6116.7	6627.0	7151.1	7305.9	7640.7	7031.1	6126.0
17.5°	5860.4	5751.8	5747.2	5765.7	5918.1	6301.4	6890.2	7155.8	7871.6	7372.8	6319.9
20°	6086.7	6084.4	6019.7	5996.6	5994.3	6336.0	6719.4	7079.6	7994.0	7816.1	6516.1
22.5°	6483.9	6483.9	6377.6	6326.8	6218.3	6497.7	6742.5	6987.2	8197.1	8121.0	6610.9
25°	7148.9	7040.3	6857.9	6733.3	6670.8	6770.1	6987.2	7206.6	8375.0	8444.3	6807.1
27.5°	7763.1	7592.2	7502.2	7287.4	7204.2	7146.5	7345.1	7566.8	8582.8	8947.6	6913.3
30°	8460.4	8430.4	8268.7	7991.7	7786.2	7679.9	7862.3	8081.7	8963.8	9462.6	7158.1
32.5°	9707.3	9434.8	9215.4	8876.0	8541.2	8314.9	8495.0	8640.5	9596.4	10000.6	7426.0
35°	11053.5	10965.8	10587.0	9975.1	9462.6	9259.3	9365.5	9474.1	10333.0	10822.5	7876.2
37.5°	12376.6	12256.5	11944.7	11429.8	10806.4	10393.1	10469.3	10596.3	11159.7	11930.9	8425.8
40°	13327.9	13180.1	13023.1	12946.9	12328.1	11762.4	11718.5	11750.8	12277.3	12970.0	9035.4
42.5°	13397.1	13579.6	13628.0	13935.2	13789.7	13325.6	13055.4	13062.3	13344.0	13997.5	9651.9
45°	13251.7	13083.1	13441.1	14279.3	14759.5	14976.5	14521.7	14464.0	14004.4	14593.2	9959.0
47.5°	11725.4	11771.6	12376.6	13702.0	15089.7	16059.5	15953.3	15761.6	14357.7	14572.5	9910.5
50°	9268.5	9548.0	10109.1	11760.0	14166.1	16230.3	16856.1	16412.8	14147.6	13999.8	9416.4
52.5°	6172.1	6287.6	6657.0	8788.3	11390.6	14507.8	15817.1	15918.6	13953.6	13249.4	8790.6
55°	2747.8	2738.5	3258.1	4590.4	7146.5	11039.6	12923.8	13542.6	13207.8	12485.1	8181.0
57.5°	1163.8	1203.0	1415.4	1983.5	3514.4	6661.6	8756.0	9298.6	10157.5	10252.2	6276.1
60°	787.4	792.0	849.7	992.9	1470.9	3128.8	4592.7	5243.9	5858.1	5816.5	3329.6
62.5°	618.8	635.0	678.9	736.6	872.8	1420.0	2055.1	2417.6	2456.8	2066.6	1263.1
65°	528.8	531.1	575.0	623.4	683.5	826.6	990.6	1009.1	1020.6	983.7	928.2
67.5°	436.4	441.1	475.7	531.1	586.5	632.7	678.9	702.0	755.0	859.0	845.1
70°	346.3	353.3	383.3	429.5	480.3	508.0	565.7	586.5	635.0	715.8	748.2
72.5°	263.2	265.5	291.0	323.3	369.4	397.1	445.7	468.7	501.0	570.3	600.3
75°	189.3	196.3	214.8	230.9	237.8	256.3	302.5	327.9	374.0	404.1	406.4
77.5°	99.3	103.9	108.5	108.5	131.6	166.2	196.3	210.2	242.4	265.5	254.0
80°	39.2	41.6	53.1	71.6	92.4	120.0	140.9	147.8	175.5	189.3	196.3
82.5°	23.1	25.4	34.6	50.8	66.9	85.4	101.6	108.5	127.0	143.1	147.8
85°	11.5	13.9	20.7	32.3	43.8	53.1	50.8	48.5	48.5	46.2	48.5
87.5°	4.6	4.6	6.9	6.9	6.9	9.2	11.5	11.5	11.5	13.9	13.9
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°	5400.9	5400.9	5400.9	5400.9	5400.9	5400.9	5400.9	5400.9	5400.9	5400.9	5400.9
2.5°	5407.8	5315.5	5230.0	5073.0	4902.1	4853.7	4655.1	4583.4	4532.7	4472.7	4454.2
5°	5435.5	5313.1	5038.4	4722.0	4470.3	4147.1	3934.7	3706.0	3539.8	3498.2	3486.7
7.5°	5493.2	5283.1	4809.7	4331.8	3816.9	3378.2	3043.4	2863.2	2703.9	2694.7	2678.5
10°	5557.9	5193.1	4560.4	3809.9	3151.9	2745.4	2544.6	2466.1	2426.8	2417.6	2413.0
12.5°	5611.0	5174.6	4281.0	3302.0	2680.8	2436.1	2376.0	2369.1	2385.3	2389.9	2399.1
15°	5634.1	5100.7	3943.9	2847.1	2387.6	2297.5	2322.9	2350.6	2362.2	2392.2	2369.1
17.5°	5678.0	5006.0	3528.3	2486.9	2223.6	2239.8	2283.7	2316.0	2334.4	2355.3	2325.2
20°	5701.1	4920.6	3138.0	2272.1	2165.9	2195.9	2256.0	2281.3	2304.4	2313.7	2279.1
22.5°	5680.3	4745.1	2794.0	2098.9	2110.5	2149.7	2202.8	2230.5	2216.7	2179.7	2159.0
25°	5624.8	4498.0	2436.1	1988.1	2032.0	2101.3	2142.8	2122.0	2096.6	2075.8	2068.9
27.5°	5622.6	4195.5	2177.4	1886.5	1965.0	2059.7	2045.8	2027.3	2038.9	2022.7	2004.2
30°	5634.1	3902.3	1965.0	1828.8	1916.5	1962.7	1978.9	1960.4	1974.3	1944.2	1953.4
32.5°	5574.1	3616.0	1826.5	1761.8	1858.8	1856.5	1909.6	1923.4	1891.1	1828.8	1838.0
35°	5599.5	3385.1	1708.7	1731.8	1794.2	1794.2	1835.7	1819.5	1734.1	1697.2	1706.4
37.5°	5774.9	3158.8	1651.0	1690.3	1731.8	1750.2	1736.4	1667.2	1646.3	1646.3	1651.0
40°	5941.2	2964.8	1616.3	1681.0	1674.1	1685.6	1584.0	1591.0	1591.0	1593.2	1581.7
42.5°	6089.0	2833.2	1588.6	1625.6	1637.1	1577.1	1514.7	1507.8	1524.0	1521.7	1512.4
45°	6142.1	2724.7	1549.4	1563.3	1572.5	1473.2	1443.1	1429.3	1447.8	1454.7	1464.0
47.5°	5938.9	2634.6	1505.5	1477.8	1459.4	1394.7	1355.5	1330.0	1353.1	1392.3	1401.6
50°	5678.0	2516.9	1436.3	1383.1	1343.9	1316.1	1288.4	1263.1	1279.2	1306.9	1300.0
52.5°	5292.4	2332.2	1348.5	1293.0	1226.1	1233.1	1207.6	1193.8	1203.0	1203.0	1196.1
55°	4742.8	1916.5	1200.7	1161.4	1106.1	1124.5	1129.2	1110.7	1092.2	1108.3	1094.5
57.5°	3237.3	1353.1	1071.4	1071.4	1016.0	1041.4	1039.0	995.2	951.3	956.0	946.7
60°	1872.6	1078.3	988.3	979.1	921.3	942.1	946.7	916.7	849.7	854.3	845.1
62.5°	1064.5	921.3	863.6	849.7	838.2	856.7	856.7	817.4	759.7	764.3	755.0
65°	905.1	854.3	771.3	768.9	764.3	768.9	750.4	708.8	658.1	637.3	639.6
67.5°	822.0	789.7	708.8	688.1	674.2	672.0	637.3	598.1	575.0	556.5	554.2
70°	720.4	695.0	635.0	607.3	593.4	561.1	526.5	501.0	468.7	459.5	468.7
72.5°	570.3	568.1	545.0	514.9	484.9	459.5	429.5	394.9	364.8	357.9	341.8
75°	394.9	399.5	404.1	399.5	374.0	341.8	307.1	279.4	242.4	221.7	217.0
77.5°	258.6	265.5	272.5	263.2	247.0	217.0	193.9	159.3	131.6	115.4	113.1
80°	189.3	198.6	203.2	196.3	177.8	154.7	129.3	101.6	80.8	66.9	66.9
82.5°	145.5	154.7	159.3	147.8	129.3	110.9	92.4	71.6	55.4	43.8	41.6
85°	50.8	48.5	57.7	60.1	71.6	66.9	55.4	41.6	32.3	23.1	20.7
87.5°	13.9	13.9	16.1	16.1	13.9	11.5	11.5	11.5	9.2	6.9	6.9
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)