

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: P455936

Luminaire Tested: **GALN-SA7A-830-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455936
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-SA7A-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25559 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 215
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

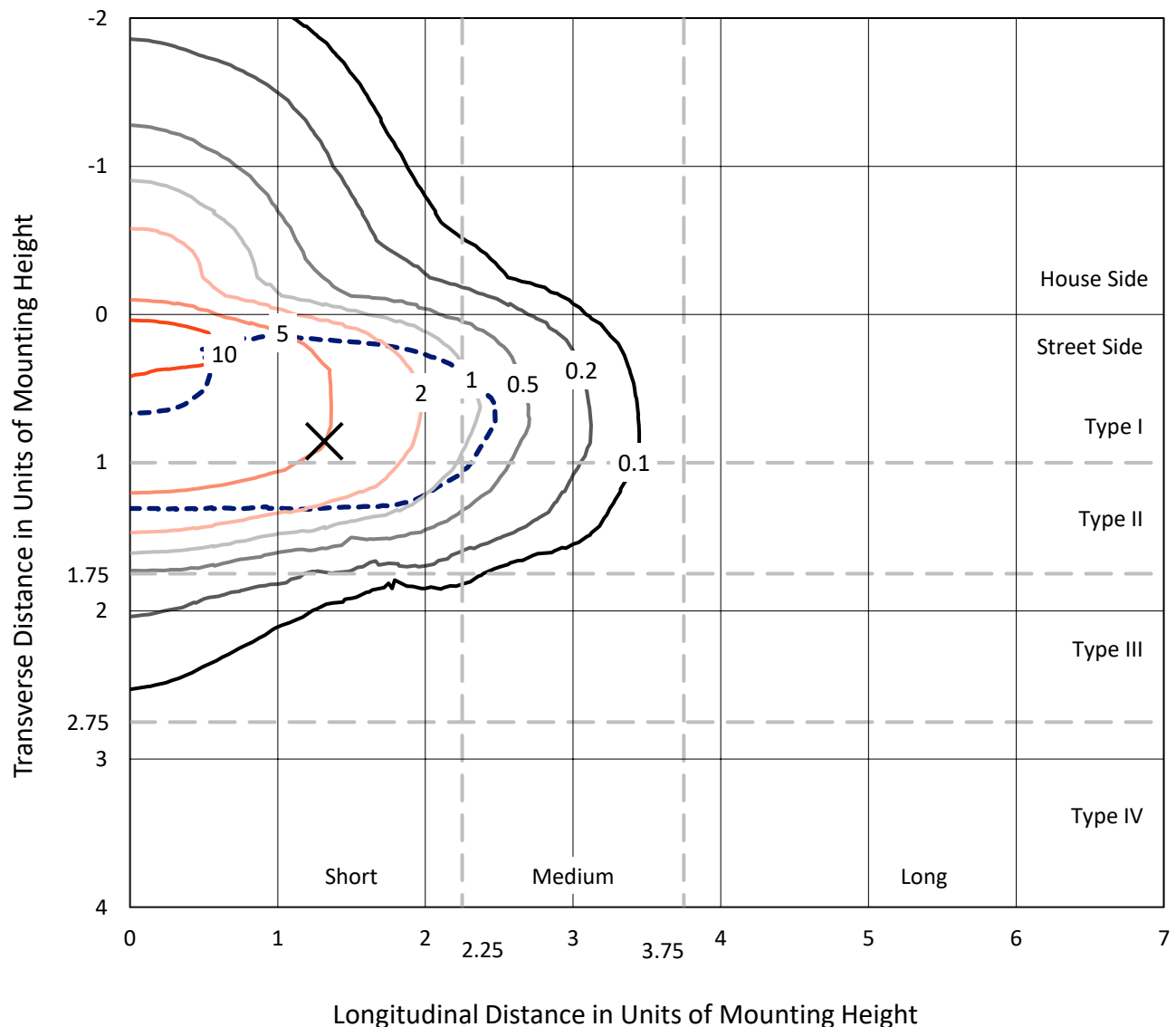


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

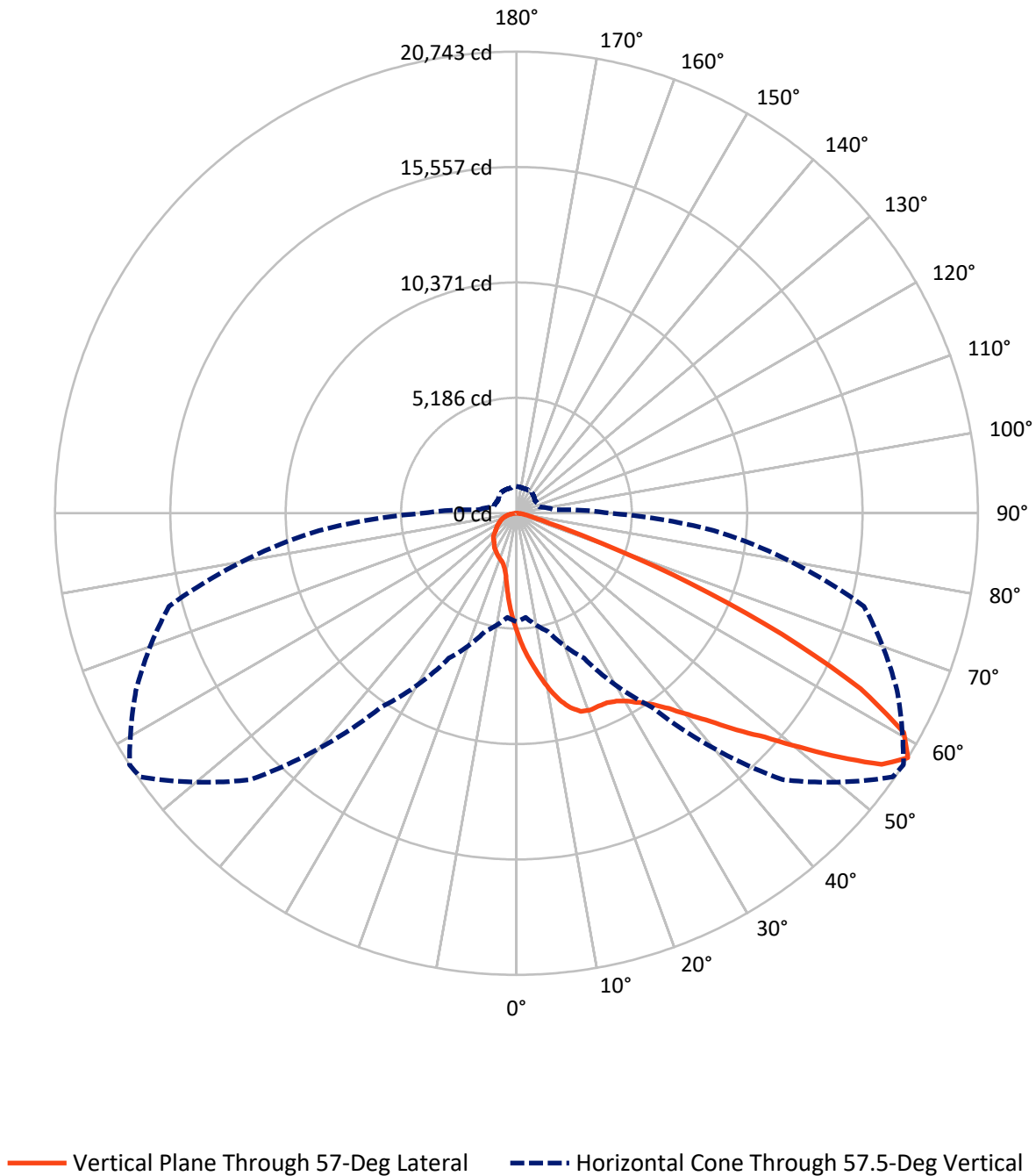


Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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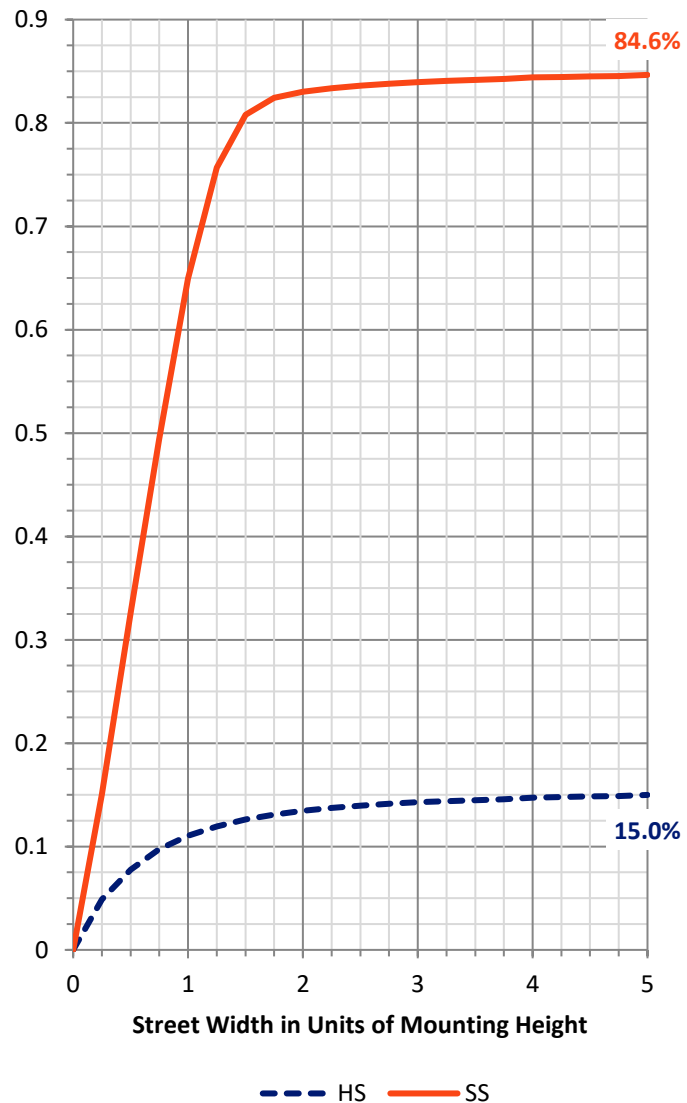
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3886.8	0.0	3886.8
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	21672.2	0.0	21672.2
	% Fixture	84.8	0.0	84.8
Total	Lumens	25559.0	0.0	25559.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.1	2.0
10°-20°	1520.9	6.0
20°-30°	2525.5	9.9
30°-40°	3804.1	14.9
40°-50°	5711.5	22.3
50°-60°	6401.9	25.0
60°-70°	3746.7	14.7
70°-80°	1108.3	4.3
80°-90°	224.0	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°	25559.0	100.0
0°-180°	25559.0	100.0

Coefficient of Utilization



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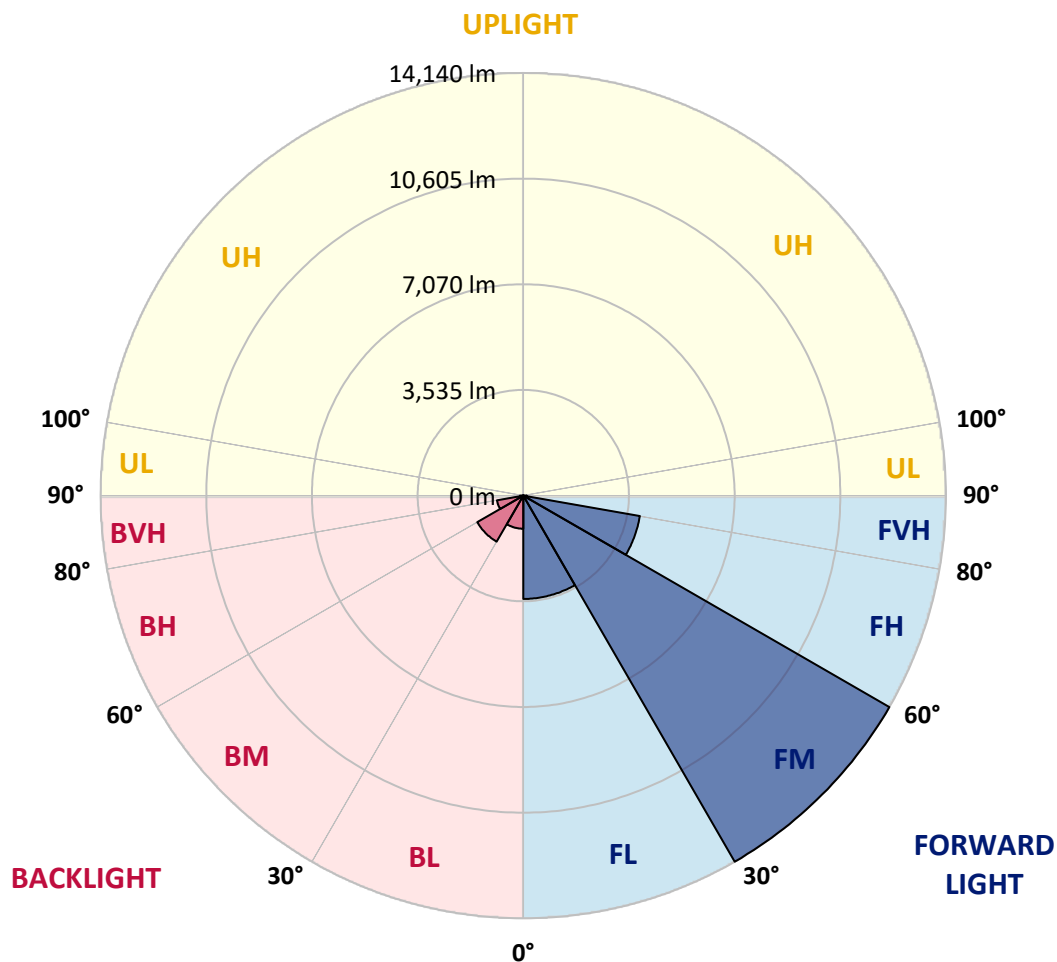
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3455.0	13.5			
FM	(30°-60°)	14140.4	55.3			
FH	(60°-80°)	3960.6	15.5			G2/5000
FVH	(80°-90°)	116.2	0.5			G2/225
BL	(0°-30°)	1107.5	4.3	B3/2500		
BM	(30°-60°)	1777.2	7.0	B2/2500		
BH	(60°-80°)	894.3	3.5	B2/1000		G2/1000
BVH	(80°-90°)	107.8	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5369.7	5369.7	5369.7	5369.7	5369.7	5369.7	5369.7	5369.7	5369.7	5369.7	5369.7
2.5°	6672.2	6599.4	6542.1	6491.7	6426.0	6248.3	6070.6	6067.8	5926.5	5708.2	5484.4
5°	7759.3	7661.3	7673.9	7517.2	7360.5	7103.1	6726.8	6707.2	6406.4	5997.8	5582.3
7.5°	8467.2	8468.6	8429.4	8339.9	8170.6	7878.2	7451.5	7354.9	6936.6	6316.8	5694.2
10°	8430.8	8468.6	8534.4	8611.3	8663.1	8519.0	8130.0	8012.5	7468.3	6703.0	5818.8
12.5°	7946.8	8005.5	8099.3	8292.3	8604.3	8842.2	8709.2	8614.1	8083.9	7087.7	5955.9
15°	7644.6	7679.5	7731.3	7861.4	8197.2	8766.6	9110.8	9060.4	8664.5	7522.8	6109.8
17.5°	7552.2	7587.2	7604.0	7683.7	7923.0	8506.4	9268.9	9358.4	9179.3	7923.0	6265.1
20°	7644.6	7661.3	7661.3	7708.9	7896.4	8353.9	9261.9	9442.4	9601.9	8402.8	6410.6
22.5°	7886.6	7893.6	7883.8	7900.6	8040.5	8395.9	9196.1	9420.0	9943.2	8810.0	6523.9
25°	8279.7	8290.9	8226.6	8187.4	8289.5	8580.5	9232.5	9438.2	10210.5	9198.9	6599.4
27.5°	8726.0	8740.0	8661.7	8570.7	8618.3	8808.6	9375.2	9559.9	10410.5	9582.3	6647.0
30°	9273.1	9278.7	9147.2	9038.0	9007.3	9148.6	9618.6	9790.7	10659.6	10034.2	6718.4
32.5°	9832.7	9874.7	9705.4	9551.5	9499.7	9543.1	9978.2	10144.7	10956.2	10519.7	6833.1
35°	10593.8	10600.8	10397.9	10210.5	10039.8	10095.7	10438.5	10558.8	11366.1	11080.7	6995.4
37.5°	11543.8	11608.1	11328.3	10978.5	10768.7	10687.5	10995.3	11126.9	11941.1	11769.0	7240.2
40°	12598.7	12622.5	12383.2	12165.0	11781.6	11546.6	11759.2	11901.9	12650.4	12590.3	7524.2
42.5°	13261.8	13313.6	13331.8	13309.4	13021.2	12626.7	12707.8	12775.0	13489.9	13361.2	7815.2
45°	13485.7	13562.6	13822.9	14374.1	14404.9	14015.9	13827.1	13891.4	14404.9	14139.1	8093.7
47.5°	13114.9	13246.5	13726.3	14856.8	15703.2	15732.6	15163.2	15021.9	15238.7	14784.0	8295.1
50°	12156.6	12184.6	12919.1	14556.0	16311.8	17373.7	16784.7	16521.7	16030.6	15261.1	8433.6
52.5°	10673.6	10705.7	11321.3	13158.3	15936.9	18521.0	18681.9	18211.8	16835.1	15631.9	8524.6
55°	7923.0	8109.0	8786.2	10561.6	14160.0	18413.2	20190.1	19922.8	17807.4	15925.7	8667.3
57.5°	4871.6	4700.9	5504.0	7185.7	10649.8	16933.0	20656.0	20742.7	18877.7	16171.9	8906.5
60°	2241.3	2274.9	2606.5	3706.2	6491.7	13246.5	19455.5	20004.0	19469.5	16163.5	8966.7
62.5°	1544.6	1513.8	1429.9	1627.1	2960.4	8377.7	16433.5	17362.5	18283.1	15661.3	8727.4
65°	1380.9	1350.1	1187.8	1133.3	1359.9	3651.6	11946.7	13119.1	15394.0	14393.7	8131.4
67.5°	1289.9	1248.0	1080.1	973.8	971.0	1453.6	7044.3	8456.0	11417.9	12169.2	7045.7
70°	1194.8	1161.2	994.7	877.2	826.9	913.6	3096.2	4053.1	7413.7	8769.4	5488.6
72.5°	1099.7	1060.5	910.8	784.9	719.1	684.1	1186.4	1543.2	4188.8	5257.7	3364.8
75°	961.2	941.6	814.3	710.7	639.4	552.6	752.7	859.0	2003.5	2414.8	1688.7
77.5°	840.8	819.9	723.3	621.2	569.4	449.1	534.4	583.4	845.0	979.4	762.5
80°	615.6	636.6	610.0	548.4	507.9	352.6	359.6	400.1	502.3	555.4	465.9
82.5°	390.3	429.5	470.1	422.5	384.7	278.4	249.0	264.4	342.8	363.8	207.1
85°	163.7	166.5	272.8	257.4	219.7	165.1	149.7	158.1	183.3	191.7	96.5
87.5°	63.0	61.6	96.5	89.5	68.6	47.6	47.6	53.2	72.8	67.2	30.8
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°	5369.7	5369.7	5369.7	5369.7	5369.7	5369.7	5369.7	5369.7	5369.7	5369.7	5369.7
2.5°	5387.8	5288.5	5091.2	4846.4	4667.3	4465.9	4288.2	4160.9	4113.3	4090.9	4048.9
5°	5383.6	5187.8	4779.2	4351.1	4007.0	3654.4	3356.4	3163.3	3146.5	3017.8	3005.2
7.5°	5385.0	5085.6	4435.1	3805.5	3280.8	2919.9	2673.6	2609.3	2532.3	2512.7	2522.5
10°	5389.2	4955.5	4065.7	3265.4	2757.6	2521.1	2428.8	2403.6	2406.4	2414.8	2416.2
12.5°	5394.8	4829.6	3682.4	2855.5	2463.8	2365.8	2356.0	2378.4	2402.2	2420.4	2424.6
15°	5401.8	4685.5	3308.8	2525.3	2316.9	2308.5	2340.7	2378.4	2412.0	2438.6	2442.8
17.5°	5393.4	4517.6	2995.4	2322.5	2235.7	2276.3	2329.5	2377.0	2407.8	2433.0	2435.8
20°	5373.9	4330.1	2693.2	2179.8	2185.4	2251.1	2308.5	2353.2	2386.8	2399.4	2409.2
22.5°	5298.3	4106.3	2430.2	2069.2	2125.2	2216.1	2284.7	2311.3	2273.5	2246.9	2253.9
25°	5169.6	3815.3	2185.4	1979.7	2070.6	2167.2	2237.1	2172.8	2142.0	2130.8	2136.4
27.5°	5008.7	3496.3	2000.7	1886.0	2000.7	2112.6	2093.0	2081.8	2067.8	2049.6	2053.8
30°	4835.2	3184.3	1844.0	1813.2	1925.1	1989.5	1997.9	2016.1	2000.7	1972.7	1983.9
32.5°	4674.3	2890.5	1725.1	1751.6	1872.0	1862.2	1925.1	1946.1	1874.8	1781.0	1785.2
35°	4537.2	2617.7	1635.5	1691.5	1781.0	1785.2	1848.2	1775.4	1698.5	1653.7	1656.5
37.5°	4433.7	2405.0	1576.8	1639.7	1664.9	1718.1	1684.5	1646.7	1636.9	1606.1	1607.5
40°	4372.1	2218.9	1539.0	1599.1	1594.9	1631.3	1523.6	1561.4	1575.4	1565.6	1567.0
42.5°	4310.6	2087.4	1499.8	1543.2	1541.8	1470.4	1446.6	1478.8	1515.2	1519.4	1516.6
45°	4261.6	1985.3	1459.2	1457.8	1485.8	1373.9	1366.9	1386.5	1438.3	1463.4	1462.0
47.5°	4207.0	1899.9	1397.7	1358.5	1366.9	1313.7	1302.5	1310.9	1373.9	1414.5	1425.7
50°	4138.5	1814.6	1320.7	1267.6	1232.6	1257.8	1260.6	1262.0	1324.9	1371.1	1380.9
52.5°	4083.9	1750.2	1232.6	1193.4	1151.4	1207.4	1228.4	1231.2	1269.0	1306.7	1313.7
55°	4116.1	1713.9	1145.8	1117.9	1080.1	1155.6	1196.2	1201.8	1210.2	1238.2	1242.4
57.5°	4212.6	1722.3	1075.9	1039.5	1011.5	1094.1	1162.6	1166.8	1161.2	1194.8	1200.4
60°	4242.0	1718.1	1024.1	952.8	936.0	1028.3	1113.7	1122.1	1120.7	1169.6	1179.4
62.5°	4118.9	1664.9	972.4	880.0	868.8	961.2	1045.1	1078.7	1085.7	1155.6	1168.2
65°	3829.3	1555.8	903.8	803.1	803.1	889.8	979.4	1025.5	1045.1	1138.8	1152.8
67.5°	3447.3	1427.1	833.8	737.3	734.5	821.3	909.4	957.0	987.7	1115.1	1123.5
70°	2861.1	1253.6	747.1	666.0	666.0	744.3	824.1	881.4	926.2	1070.3	1070.3
72.5°	1960.1	1042.3	642.2	584.8	586.2	659.0	740.1	804.5	857.6	980.8	983.6
75°	1239.6	814.3	527.5	498.1	503.7	572.2	656.2	723.3	829.7	969.6	973.8
77.5°	659.0	572.2	419.7	412.7	419.7	482.7	576.4	668.8	832.5	840.8	826.9
80°	426.7	405.7	331.6	317.6	320.4	388.9	513.5	635.2	668.8	677.2	646.4
82.5°	232.2	257.4	235.0	221.1	221.1	303.6	437.9	505.1	479.9	398.7	380.5
85°	99.3	120.3	121.7	106.3	102.1	187.5	293.8	275.6	256.0	244.8	242.0
87.5°	28.0	39.2	39.2	29.4	22.4	51.8	58.8	16.8	0.0	1.4	2.8
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)