

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: P456168

Luminaire Tested: **GALN-SA7B-830-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456168
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-SA7B-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31803 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 286
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

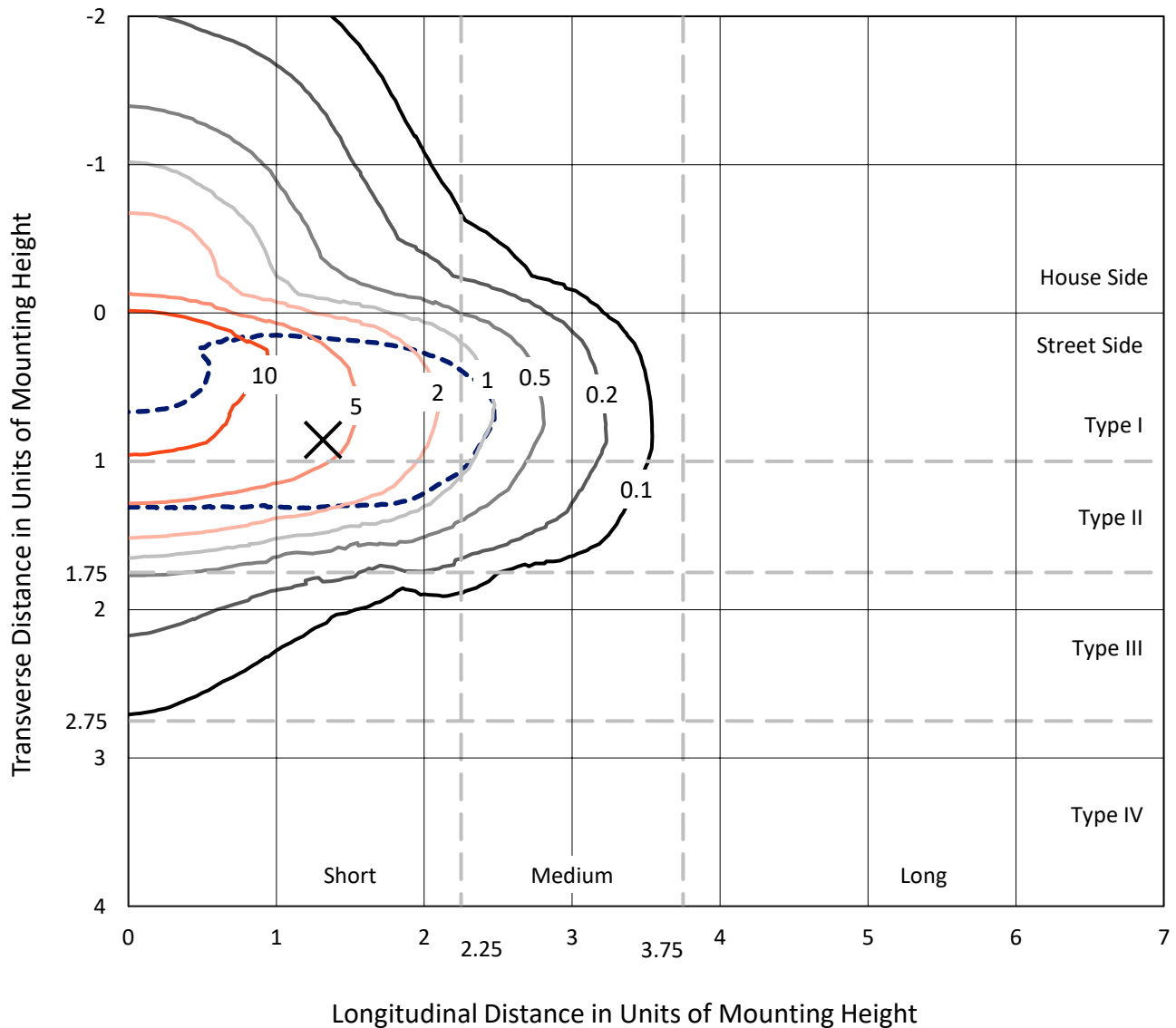


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

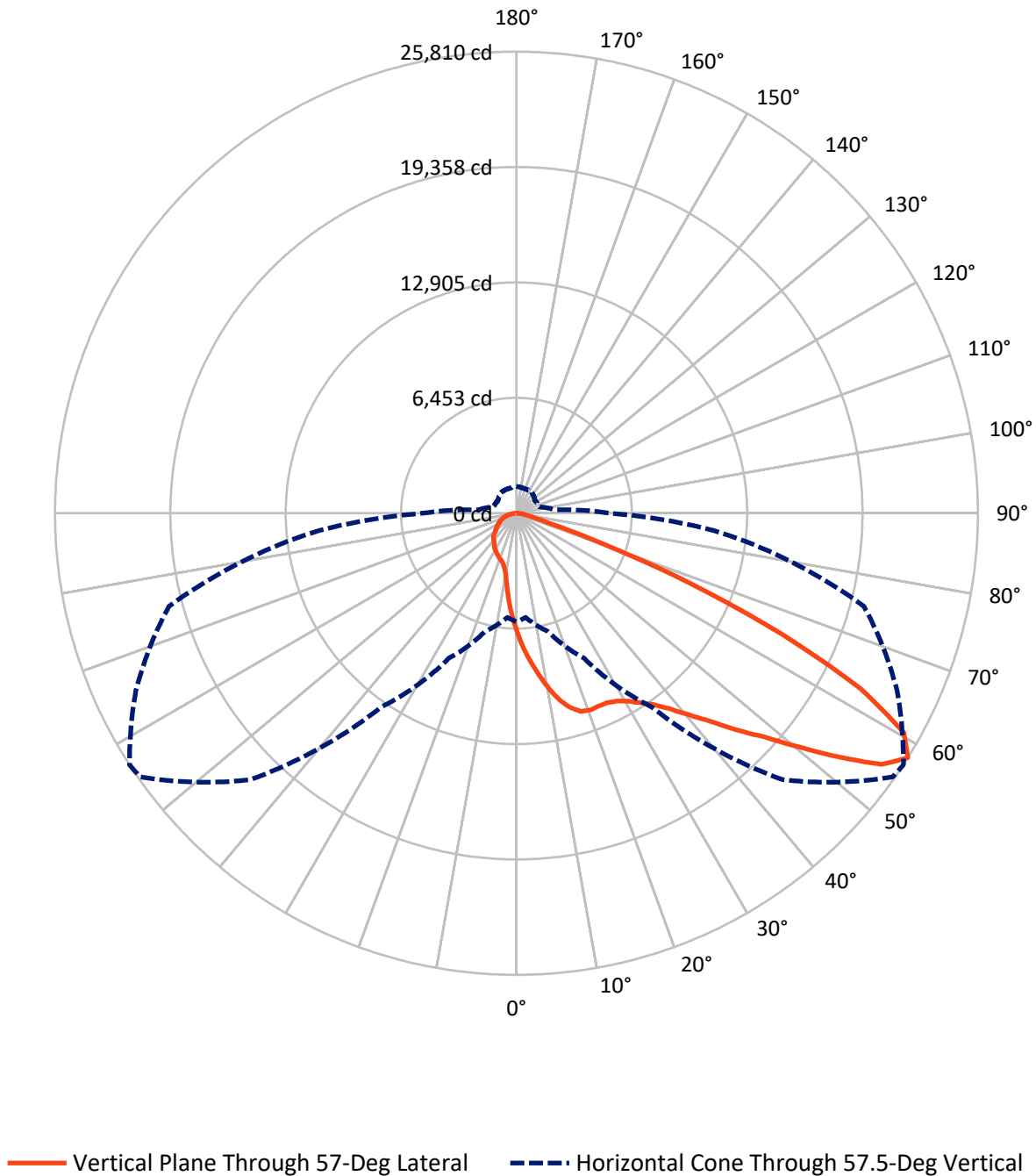


Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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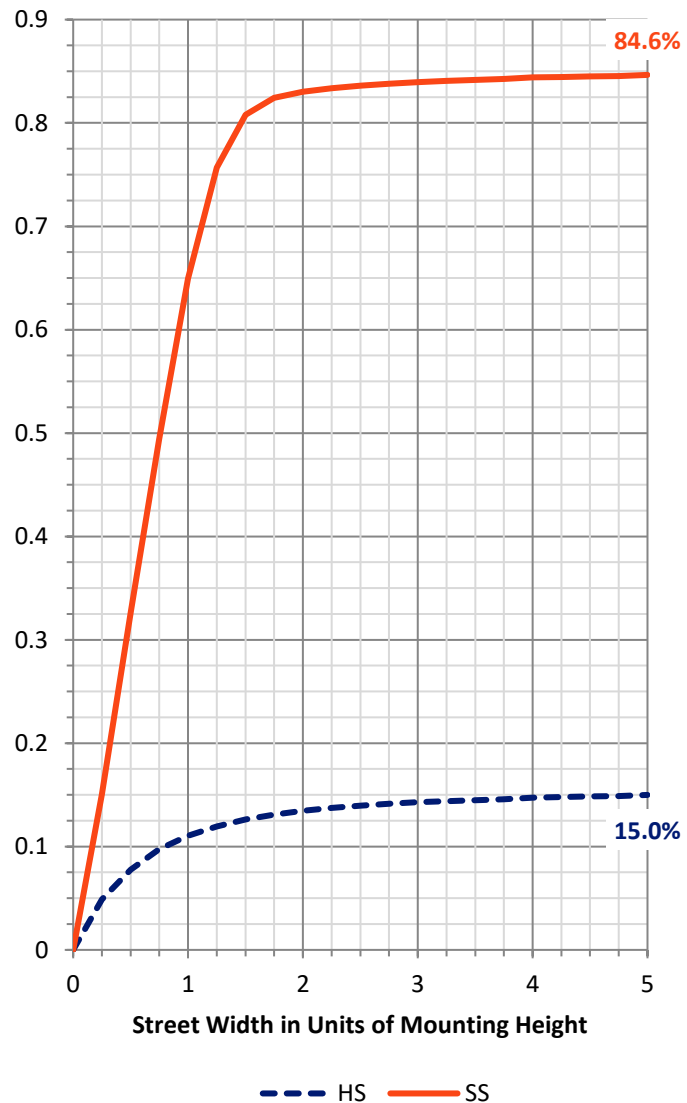
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4836.4	0.0	4836.4
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	26966.7	0.0	26966.7
	% Fixture	84.8	0.0	84.8
Total	Lumens	31803.0	0.0	31803.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	642.2	2.0
10°-20°	1892.5	6.0
20°-30°	3142.5	9.9
30°-40°	4733.5	14.9
40°-50°	7106.8	22.3
50°-60°	7965.9	25.0
60°-70°	4662.0	14.7
70°-80°	1379.0	4.3
80°-90°	278.7	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°	31803.0	100.0
0°-180°	31803.0	100.0

Coefficient of Utilization



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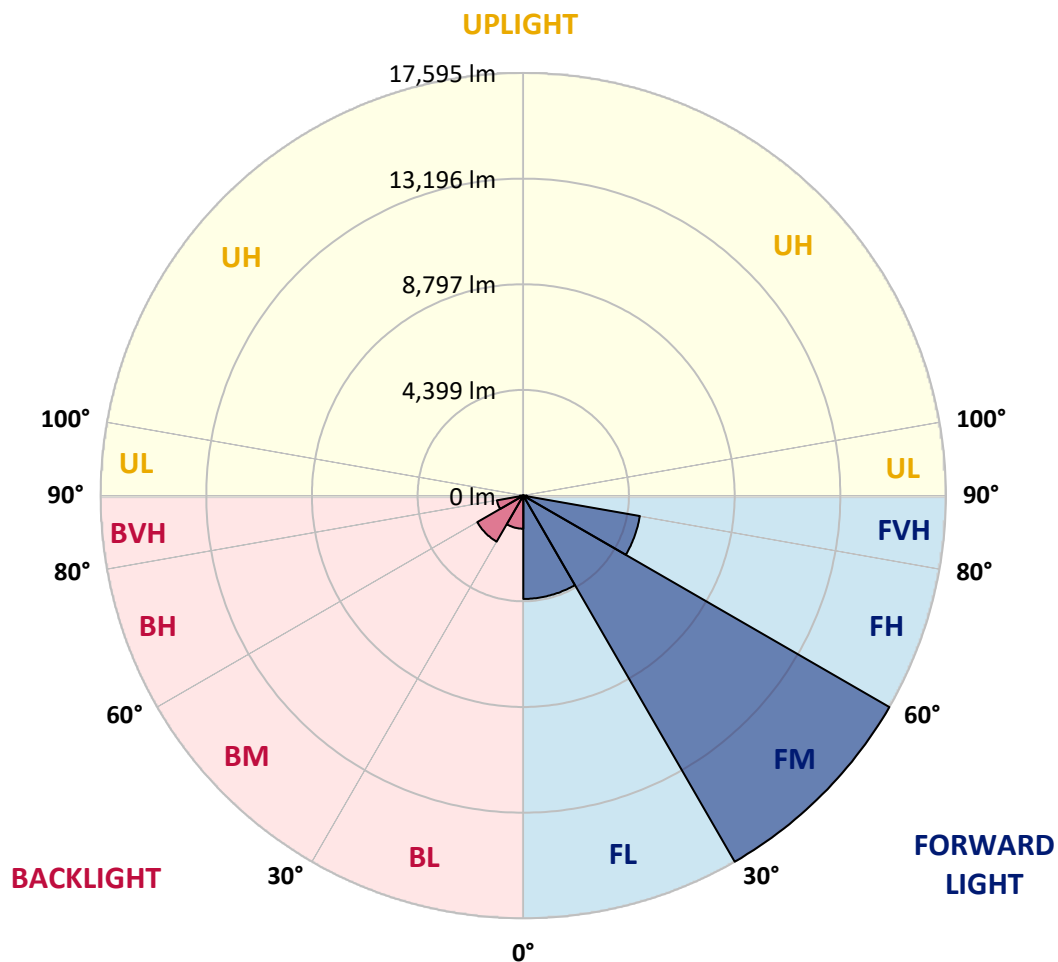
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4299.0	13.5			
FM	(30°-60°)	17594.8	55.3			
FH	(60°-80°)	4928.2	15.5			G2/5000
FVH	(80°-90°)	144.6	0.5			G2/225
BL	(0°-30°)	1378.0	4.3	B3/2500		
BM	(30°-60°)	2211.4	7.0	B2/2500		
BH	(60°-80°)	1112.8	3.5	B3/2500		G3/2500
BVH	(80°-90°)	134.1	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°	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4
2.5°	8302.2	8211.7	8140.3	8077.6	7995.8	7774.7	7553.6	7550.1	7374.3	7102.7	6824.2
5°	9654.8	9533.0	9548.7	9353.7	9158.7	8838.4	8370.1	8345.7	7971.4	7463.1	6946.1
7.5°	10535.7	10537.5	10488.7	10377.3	10166.7	9802.8	9271.9	9151.7	8631.2	7860.0	7085.3
10°	10490.5	10537.5	10619.3	10715.0	10779.4	10600.1	10116.2	9969.9	9292.7	8340.5	7240.3
12.5°	9888.1	9961.2	10077.9	10318.1	10706.3	11002.3	10836.9	10718.5	10058.7	8819.2	7410.9
15°	9512.1	9555.6	9620.0	9781.9	10199.7	10908.3	11336.5	11273.9	10781.2	9360.6	7602.4
17.5°	9397.2	9440.7	9461.6	9560.8	9858.5	10584.5	11533.2	11644.7	11421.8	9858.5	7795.6
20°	9512.1	9533.0	9533.0	9592.2	9825.5	10394.7	11524.5	11749.1	11947.6	10455.6	7976.7
22.5°	9813.3	9822.0	9809.8	9830.7	10004.8	10446.9	11442.7	11721.3	12372.3	10962.2	8117.7
25°	10302.4	10316.4	10236.3	10187.6	10314.6	10676.7	11488.0	11743.9	12704.8	11446.2	8211.7
27.5°	10857.8	10875.2	10777.7	10664.5	10723.7	10960.5	11665.5	11895.3	12953.8	11923.2	8270.9
30°	11538.5	11545.4	11381.8	11246.0	11207.7	11383.5	11968.5	12182.6	13263.7	12485.5	8359.6
32.5°	12234.8	12287.0	12076.4	11884.9	11820.5	11874.5	12415.9	12623.0	13632.7	13089.6	8502.4
35°	13181.8	13190.5	12938.1	12704.8	12492.5	12562.1	12988.6	13138.3	14142.8	13787.7	8704.3
37.5°	14363.9	14444.0	14095.8	13660.6	13399.5	13298.5	13681.5	13845.1	14858.3	14644.2	9009.0
40°	15676.5	15706.1	15408.4	15136.8	14659.8	14367.4	14632.0	14809.6	15740.9	15666.1	9362.4
42.5°	16501.7	16566.1	16588.7	16560.9	16202.2	15711.3	15812.3	15895.9	16785.4	16625.3	9724.5
45°	16780.2	16876.0	17199.8	17885.7	17924.0	17440.0	17205.0	17285.1	17924.0	17593.2	10070.9
47.5°	16318.9	16482.5	17079.6	18486.3	19539.5	19576.0	18867.5	18691.7	18961.5	18395.7	10321.6
50°	15126.4	15161.2	16075.2	18112.0	20296.8	21618.1	20885.2	20557.9	19946.9	18989.4	10493.9
52.5°	13281.1	13321.1	14087.1	16372.9	19830.2	23045.6	23245.8	22660.9	20947.8	19450.7	10607.1
55°	9858.5	10090.1	10932.6	13141.8	17619.3	22911.5	25122.4	24789.9	22157.8	19816.3	10784.7
57.5°	6061.7	5849.3	6848.6	8941.1	13251.5	21069.7	25702.2	25810.1	23489.5	20122.7	11082.4
60°	2788.9	2830.6	3243.2	4611.6	8077.6	16482.5	24208.5	24890.9	24225.9	20112.2	11157.2
62.5°	1921.9	1883.6	1779.2	2024.6	3683.7	10424.3	20448.2	21604.2	22749.6	19487.3	10859.5
65°	1718.2	1679.9	1478.0	1410.1	1692.1	4543.7	14865.3	16324.1	19154.8	17910.0	10117.9
67.5°	1605.1	1552.9	1343.9	1211.6	1208.2	1808.8	8765.3	10521.8	14207.2	15142.1	8767.0
70°	1486.7	1444.9	1237.8	1091.5	1028.9	1136.8	3852.5	5043.3	9224.9	10911.8	6829.4
72.5°	1368.3	1319.6	1133.3	976.6	894.8	851.3	1476.3	1920.2	5212.2	6542.2	4186.8
75°	1196.0	1171.6	1013.2	884.4	795.6	687.6	936.6	1068.9	2492.9	3004.7	2101.2
77.5°	1046.3	1020.1	900.0	772.9	708.5	558.8	665.0	725.9	1051.5	1218.6	948.8
80°	766.0	792.1	759.0	682.4	631.9	438.7	447.4	497.9	625.0	691.1	579.7
82.5°	485.7	534.4	584.9	525.7	478.7	346.4	309.9	329.0	426.5	452.6	257.6
85°	203.7	207.2	339.5	320.3	273.3	205.4	186.3	196.7	228.1	238.5	120.1
87.5°	78.3	76.6	120.1	111.4	85.3	59.2	59.2	66.2	90.5	83.6	38.3
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°	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4	6681.4
2.5°	6704.1	6580.5	6335.0	6030.4	5807.5	5556.8	5335.8	5177.3	5118.1	5090.3	5038.1
5°	6698.9	6455.1	5946.8	5414.1	4985.8	4547.1	4176.3	3936.1	3915.2	3755.0	3739.4
7.5°	6700.6	6328.1	5518.5	4735.2	4082.3	3633.2	3326.8	3246.7	3151.0	3126.6	3138.8
10°	6705.8	6166.1	5059.0	4063.2	3431.2	3137.0	3022.1	2990.8	2994.3	3004.7	3006.5
12.5°	6712.8	6009.5	4582.0	3553.1	3065.7	2943.8	2931.6	2959.5	2989.1	3011.7	3016.9
15°	6721.5	5830.2	4117.1	3142.3	2882.9	2872.4	2912.5	2959.5	3001.3	3034.3	3039.6
17.5°	6711.0	5621.3	3727.2	2889.8	2781.9	2832.4	2898.5	2957.7	2996.0	3027.4	3030.8
20°	6686.7	5388.0	3351.2	2712.3	2719.2	2801.1	2872.4	2928.1	2969.9	2985.6	2997.8
22.5°	6592.7	5109.4	3023.9	2574.7	2644.4	2757.5	2842.8	2875.9	2828.9	2795.8	2804.5
25°	6432.5	4747.3	2719.2	2463.3	2576.5	2696.6	2783.6	2703.6	2665.3	2651.3	2658.3
27.5°	6232.3	4350.4	2489.4	2346.7	2489.4	2628.7	2604.3	2590.4	2573.0	2550.4	2555.6
30°	6016.4	3962.2	2294.5	2256.2	2395.4	2475.5	2486.0	2508.6	2489.4	2454.6	2468.5
32.5°	5816.2	3596.6	2146.5	2179.6	2329.3	2317.1	2395.4	2421.5	2332.8	2216.1	2221.3
35°	5645.6	3257.2	2035.1	2104.7	2216.1	2221.3	2299.7	2209.2	2113.4	2057.7	2061.2
37.5°	5516.8	2992.5	1962.0	2040.3	2071.6	2137.8	2096.0	2049.0	2036.8	1998.5	2000.3
40°	5440.2	2761.0	1915.0	1989.8	1984.6	2029.9	1895.8	1942.8	1960.2	1948.0	1949.8
42.5°	5363.6	2597.4	1866.2	1920.2	1918.4	1829.7	1800.1	1840.1	1885.4	1890.6	1887.1
45°	5302.7	2470.3	1815.7	1814.0	1848.8	1709.5	1700.8	1725.2	1789.6	1820.9	1819.2
47.5°	5234.8	2364.1	1739.1	1690.4	1700.8	1634.7	1620.7	1631.2	1709.5	1760.0	1773.9
50°	5149.5	2257.9	1643.4	1577.2	1533.7	1565.0	1568.5	1570.3	1648.6	1706.0	1718.2
52.5°	5081.6	2177.8	1533.7	1485.0	1432.7	1502.4	1528.5	1532.0	1579.0	1626.0	1634.7
55°	5121.6	2132.6	1425.8	1391.0	1343.9	1438.0	1488.4	1495.4	1505.8	1540.7	1545.9
57.5°	5241.7	2143.0	1338.7	1293.5	1258.6	1361.4	1446.7	1451.9	1444.9	1486.7	1493.7
60°	5278.3	2137.8	1274.3	1185.5	1164.6	1279.5	1385.7	1396.2	1394.4	1455.4	1467.6
62.5°	5125.1	2071.6	1209.9	1095.0	1081.1	1196.0	1300.4	1342.2	1350.9	1438.0	1453.6
65°	4764.8	1935.8	1124.6	999.3	999.3	1107.2	1218.6	1276.1	1300.4	1417.1	1434.5
67.5°	4289.5	1775.7	1037.6	917.4	914.0	1021.9	1131.6	1190.8	1229.1	1387.5	1397.9
70°	3560.1	1559.8	929.6	828.7	828.7	926.1	1025.4	1096.7	1152.5	1331.8	1331.8
72.5°	2439.0	1296.9	799.1	727.7	729.4	819.9	920.9	1001.0	1067.2	1220.3	1223.8
75°	1542.4	1013.2	656.3	619.7	626.7	712.0	816.5	900.0	1032.3	1206.4	1211.6
77.5°	819.9	712.0	522.3	513.6	522.3	600.6	717.2	832.1	1035.8	1046.3	1028.9
80°	531.0	504.9	412.6	395.2	398.7	484.0	638.9	790.4	832.1	842.6	804.3
82.5°	289.0	320.3	292.5	275.1	275.1	377.8	544.9	628.5	597.1	496.1	473.5
85°	123.6	149.7	151.5	132.3	127.1	233.3	365.6	343.0	318.6	304.7	301.2
87.5°	34.8	48.7	48.7	36.6	27.9	64.4	73.1	20.9	0.0	1.7	3.5
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)