

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: P457560

Luminaire Tested: **GALN-SA8D-830-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457560
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-SA8D-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50126 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 493
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

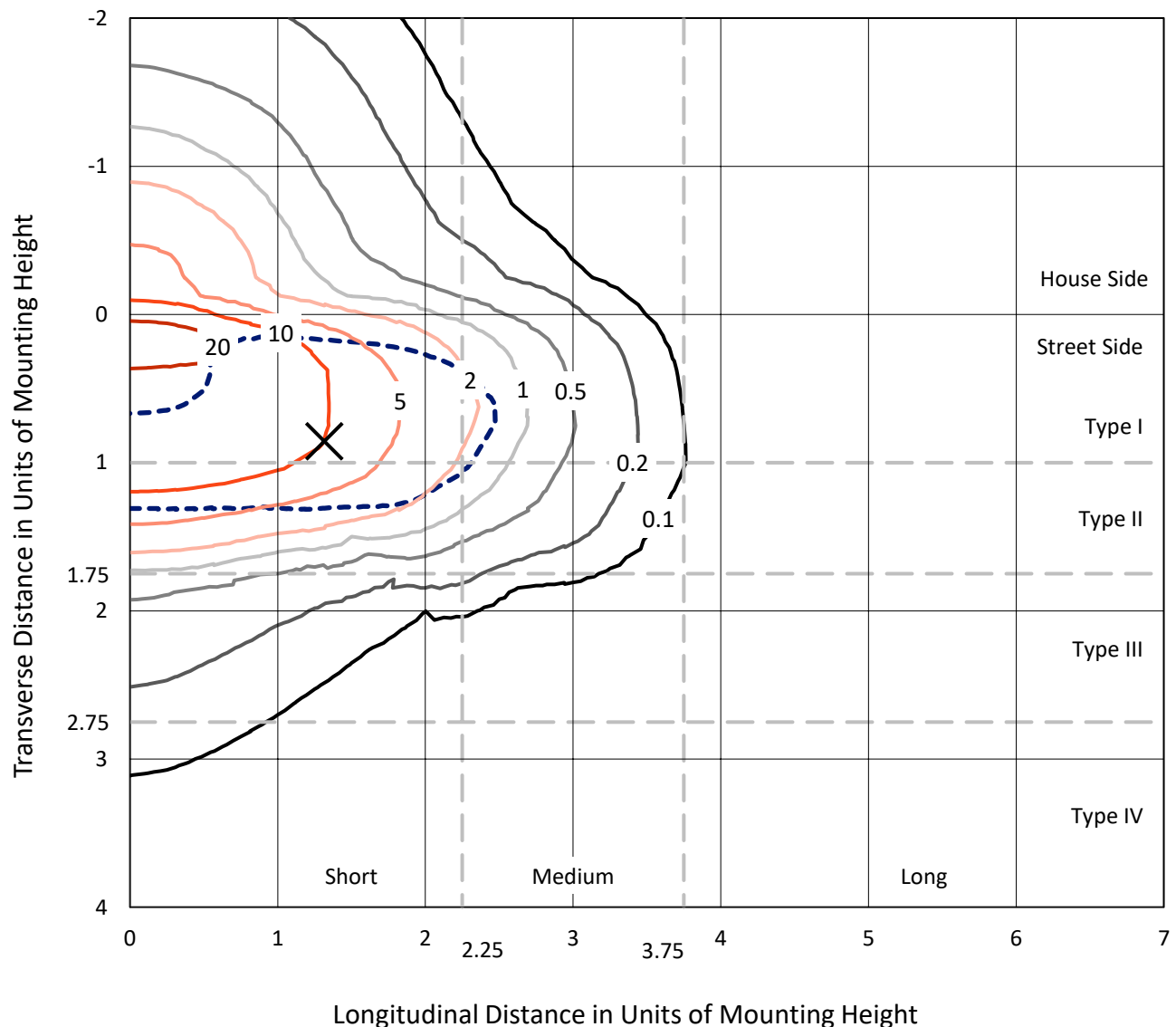


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



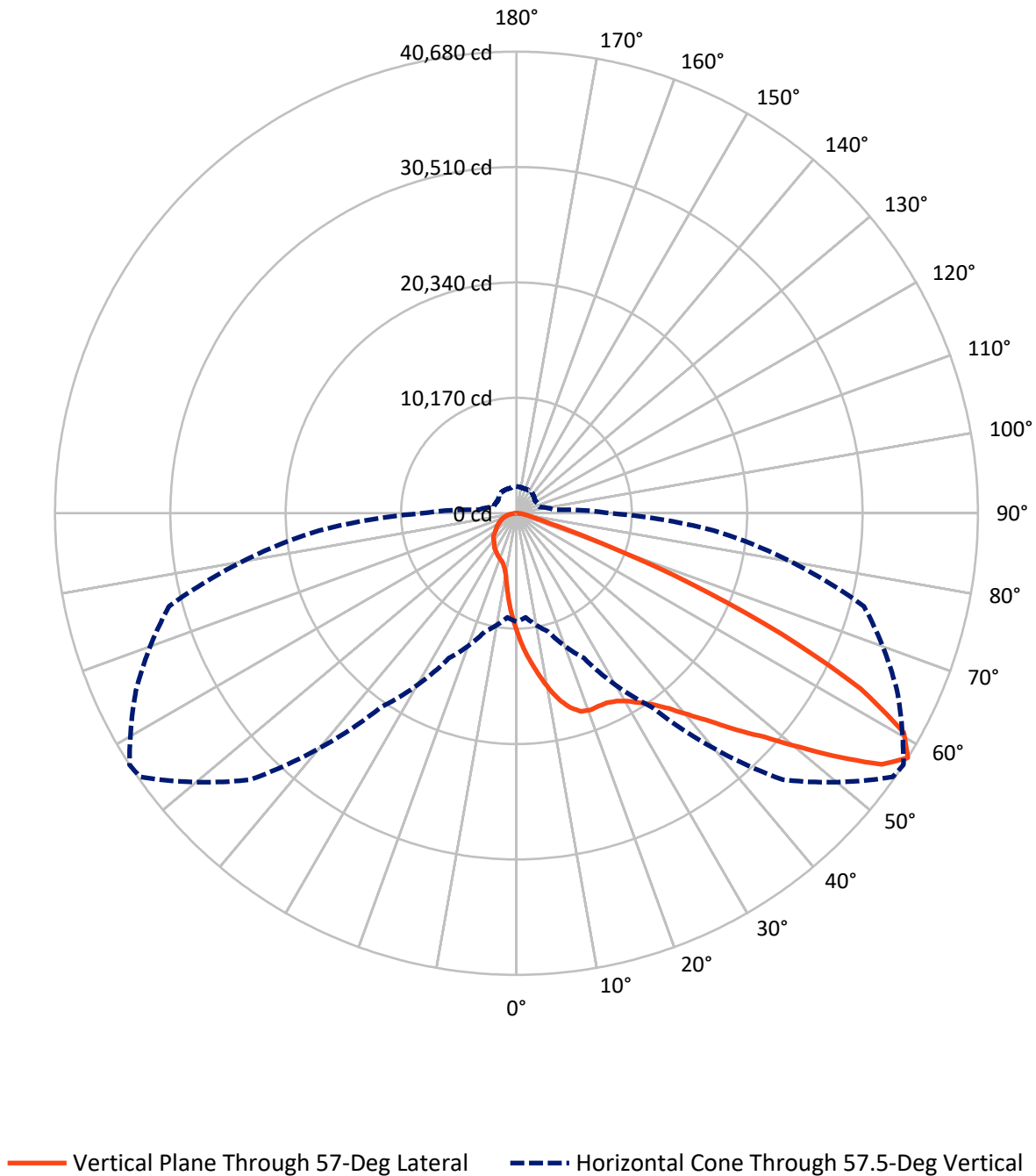
Based on 25 foot mounting height. Maximum calculated value = 25.6 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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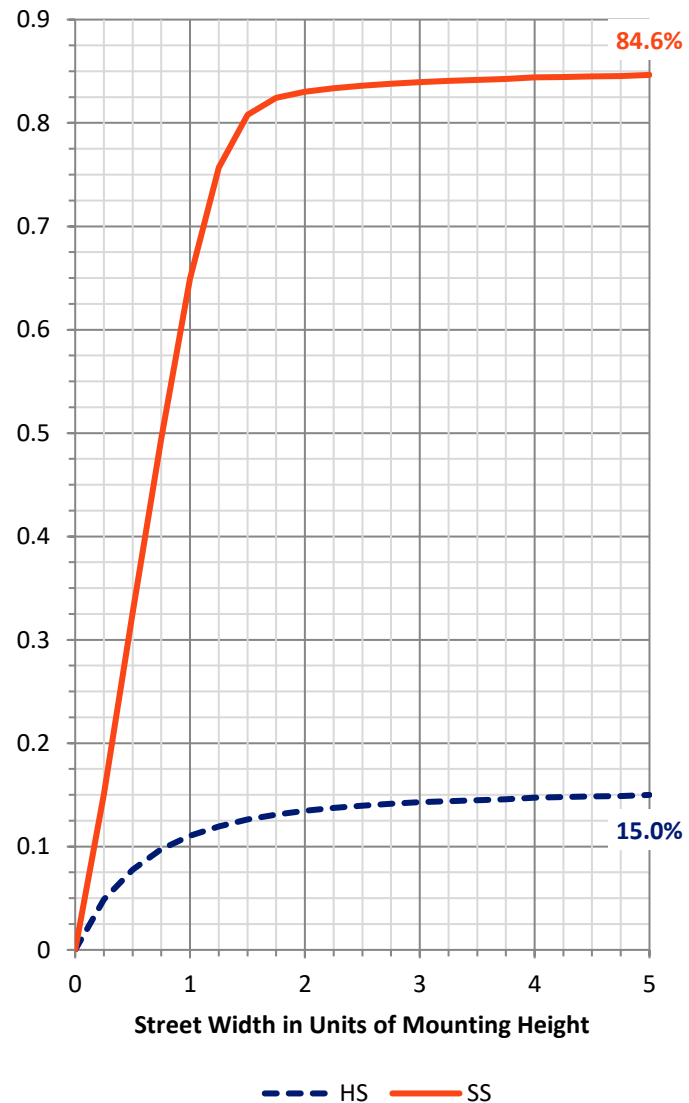
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7622.7	0.0	7622.7
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	42503.2	0.0	42503.2
	% Fixture	84.8	0.0	84.8
Total	Lumens	50126.0	0.0	50126.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1012.1	2.0
10°-20°	2982.8	6.0
20°-30°	4953.0	9.9
30°-40°	7460.6	14.9
40°-50°	11201.4	22.3
50°-60°	12555.3	25.0
60°-70°	7348.0	14.7
70°-80°	2173.5	4.3
80°-90°	439.3	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°	50126.0	100.0
0°-180°	50126.0	100.0

Coefficient of Utilization



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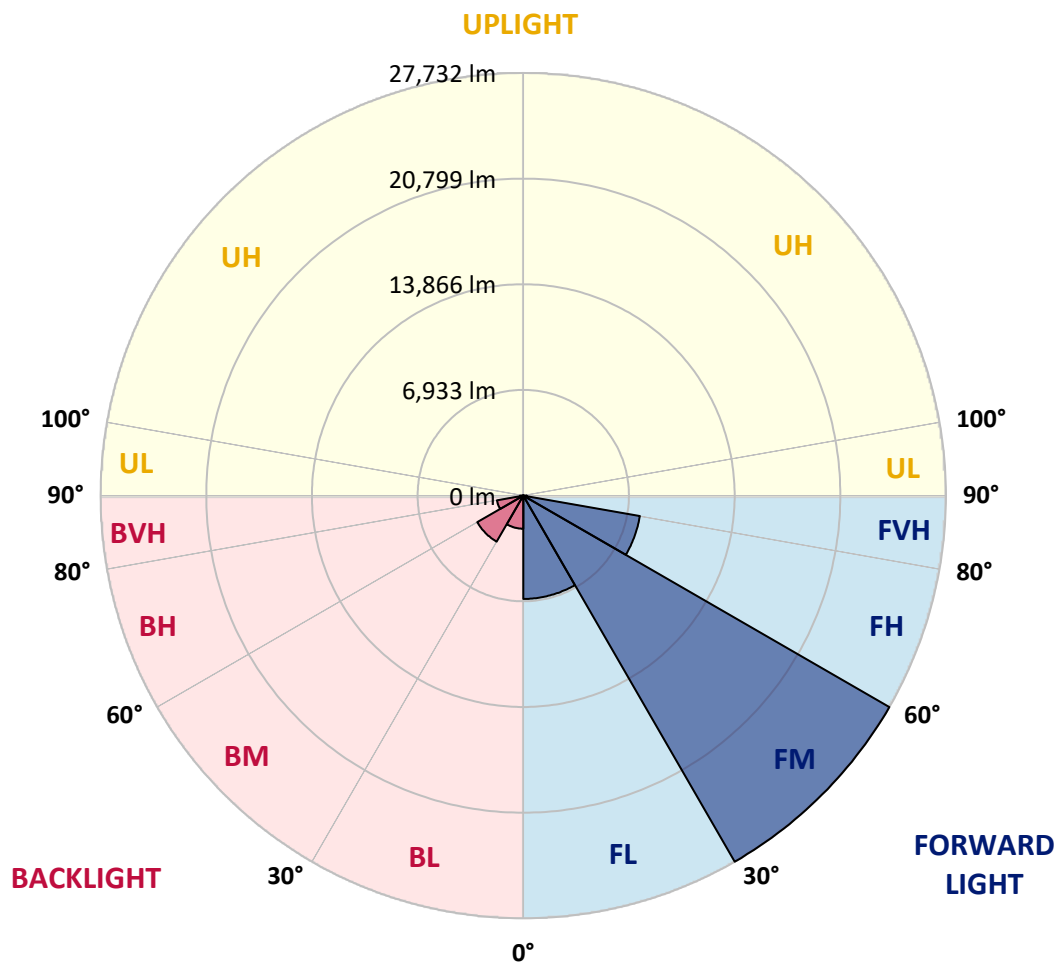
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6775.9	13.5			
FM	(30°-60°)	27731.9	55.3			
FH	(60°-80°)	7767.5	15.5			G4/12000
FVH	(80°-90°)	227.9	0.5			G3/500
BL	(0°-30°)	2172.0	4.3	B3/2500		
BM	(30°-60°)	3485.4	7.0	B3/5000		
BH	(60°-80°)	1754.0	3.5	B3/2500		G3/2500
BVH	(80°-90°)	211.4	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	10530.9	10530.9	10530.9	10530.9	10530.9	10530.9	10530.9	10530.9	10530.9	10530.9	10530.9
2.5°	13085.4	12942.7	12830.2	12731.5	12602.5	12254.0	11905.6	11900.1	11623.0	11194.9	10755.9
5°	15217.4	15025.3	15050.0	14742.7	14435.4	13930.5	13192.4	13154.0	12564.1	11762.9	10948.0
7.5°	16605.8	16608.5	16531.7	16356.1	16024.1	15450.6	14613.7	14424.4	13604.0	12388.5	11167.5
10°	16534.4	16608.5	16737.5	16888.4	16989.9	16707.3	15944.5	15714.0	14646.7	13145.8	11411.7
12.5°	15585.1	15700.3	15884.2	16262.8	16874.7	17341.1	17080.5	16893.9	15854.0	13900.3	11680.6
15°	14992.4	15061.0	15162.5	15417.7	16076.2	17193.0	17868.0	17769.2	16992.7	14753.7	11982.4
17.5°	14811.3	14879.9	14912.8	15069.2	15538.4	16682.6	18178.0	18353.6	18002.4	15538.4	12287.0
20°	14992.4	15025.3	15025.3	15118.6	15486.3	16383.5	18164.3	18518.2	18831.0	16479.6	12572.3
22.5°	15467.1	15480.8	15461.6	15494.5	15768.9	16465.8	18035.3	18474.3	19500.5	17278.0	12794.6
25°	16238.1	16260.1	16133.8	16057.0	16257.3	16828.0	18106.7	18510.0	20024.6	18040.8	12942.7
27.5°	17113.4	17140.8	16987.2	16808.8	16902.1	17275.3	18386.5	18748.7	20417.0	18792.6	13036.0
30°	18186.2	18197.2	17939.3	17725.3	17664.9	17942.0	18864.0	19201.5	20905.4	19678.9	13176.0
32.5°	19283.8	19366.1	19034.1	18732.3	18630.7	18715.8	19569.1	19895.7	21487.1	20631.0	13401.0
35°	20776.4	20790.2	20392.3	20024.6	19689.9	19799.6	20471.9	20707.8	22291.0	21731.3	13719.3
37.5°	22639.5	22765.7	22217.0	21531.0	21119.4	20960.3	21563.9	21821.8	23418.8	23081.3	14199.4
40°	24708.4	24755.0	24285.8	23857.8	23106.0	22645.0	23062.1	23341.9	24809.9	24691.9	14756.4
42.5°	26009.0	26110.5	26146.2	26102.3	25537.0	24763.3	24922.4	25054.1	26456.2	26203.8	15327.1
45°	26448.0	26598.9	27109.2	28190.3	28250.7	27487.9	27117.5	27243.7	28250.7	27729.4	15873.2
47.5°	25720.9	25978.8	26919.9	29137.0	30797.0	30854.6	29737.9	29460.7	29886.0	28994.3	16268.3
50°	23841.3	23896.2	25336.7	28547.0	31990.6	34073.1	32918.0	32402.1	31439.0	29929.9	16539.9
52.5°	20932.8	20995.9	22203.2	25805.9	31255.2	36323.1	36638.6	35716.7	33016.8	30657.0	16718.3
55°	15538.4	15903.4	17231.4	20713.3	27770.5	36111.8	39596.5	39072.4	34923.7	31233.3	16998.2
57.5°	9554.1	9219.3	10794.3	14092.4	20886.2	33208.8	40510.2	40680.3	37022.8	31716.2	17467.4
60°	4395.6	4461.5	5111.8	7268.5	12731.5	25978.8	38156.0	39231.6	38183.4	31699.7	17585.3
62.5°	3029.2	2968.8	2804.2	3191.1	5806.0	16430.2	32229.3	34051.2	35856.6	30714.7	17116.1
65°	2708.2	2647.8	2329.5	2222.5	2667.0	7161.5	23429.7	25729.1	30190.6	28228.7	15947.3
67.5°	2529.8	2447.5	2118.3	1909.7	1904.2	2850.9	13815.3	16583.8	22392.6	23866.0	13818.0
70°	2343.2	2277.4	1950.9	1720.4	1621.6	1791.7	6072.1	7948.9	14539.7	17198.5	10764.1
72.5°	2156.7	2079.8	1786.2	1539.3	1410.3	1341.7	2326.8	3026.5	8215.1	10311.4	6599.0
75°	1885.0	1846.6	1596.9	1393.9	1253.9	1083.8	1476.2	1684.7	3929.2	4735.9	3311.8
77.5°	1649.1	1607.9	1418.6	1218.3	1116.7	880.8	1048.2	1144.2	1657.3	1920.7	1495.4
80°	1207.3	1248.5	1196.3	1075.6	996.0	691.5	705.2	784.7	985.0	1089.3	913.7
82.5°	765.5	842.4	921.9	828.6	754.6	546.0	488.4	518.6	672.2	713.4	406.1
85°	321.0	326.5	535.1	504.9	430.8	323.8	293.6	310.1	359.4	375.9	189.3
87.5°	123.5	120.7	189.3	175.6	134.4	93.3	93.3	104.3	142.7	131.7	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°	10530.9	10530.9	10530.9	10530.9	10530.9	10530.9	10530.9	10530.9	10530.9	10530.9	10530.9
2.5°	10566.6	10371.8	9984.9	9504.7	9153.5	8758.4	8409.9	8160.2	8066.9	8023.0	7940.7
5°	10558.3	10174.2	9373.0	8533.4	7858.4	7166.9	6582.5	6203.8	6170.9	5918.5	5893.8
7.5°	10561.1	9973.9	8698.0	7463.3	6434.3	5726.4	5243.5	5117.3	4966.4	4928.0	4947.2
10°	10569.3	9718.7	7973.6	6404.1	5408.1	4944.4	4763.3	4713.9	4719.4	4735.9	4738.6
12.5°	10580.3	9471.8	7221.8	5600.2	4831.9	4639.9	4620.6	4664.5	4711.2	4746.9	4755.1
15°	10594.0	9189.2	6489.2	4952.7	4543.8	4527.4	4590.5	4664.5	4730.4	4782.5	4790.8
17.5°	10577.5	8859.9	5874.6	4554.8	4384.7	4464.2	4568.5	4661.8	4722.2	4771.6	4777.0
20°	10539.1	8492.2	5281.9	4274.9	4285.9	4414.9	4527.4	4615.2	4681.0	4705.7	4724.9
22.5°	10391.0	8053.2	4766.1	4058.2	4167.9	4346.3	4480.7	4532.8	4458.8	4406.6	4420.3
25°	10138.5	7482.5	4285.9	3882.5	4060.9	4250.2	4387.4	4261.2	4200.8	4178.9	4189.9
27.5°	9823.0	6856.9	3923.7	3698.7	3923.7	4143.2	4104.8	4082.8	4055.4	4019.7	4028.0
30°	9482.7	6245.0	3616.4	3556.0	3775.5	3901.8	3918.2	3953.9	3923.7	3868.8	3890.8
32.5°	9167.2	5668.8	3383.2	3435.3	3671.3	3652.1	3775.5	3816.7	3676.8	3492.9	3501.2
35°	8898.3	5133.7	3207.6	3317.3	3492.9	3501.2	3624.6	3481.9	3331.0	3243.2	3248.7
37.5°	8695.3	4716.7	3092.3	3215.8	3265.2	3369.4	3303.6	3229.5	3210.3	3149.9	3152.7
40°	8574.5	4351.7	3018.2	3136.2	3128.0	3199.3	2988.1	3062.1	3089.6	3070.4	3073.1
42.5°	8453.8	4093.8	2941.4	3026.5	3023.7	2883.8	2837.1	2900.3	2971.6	2979.8	2974.3
45°	8357.8	3893.5	2861.8	2859.1	2914.0	2694.5	2680.7	2719.2	2820.7	2870.1	2867.3
47.5°	8250.8	3726.1	2741.1	2664.3	2680.7	2576.5	2554.5	2571.0	2694.5	2774.0	2796.0
50°	8116.3	3558.8	2590.2	2485.9	2417.3	2466.7	2472.2	2475.0	2598.4	2689.0	2708.2
52.5°	8009.3	3432.6	2417.3	2340.5	2258.2	2367.9	2409.1	2414.6	2488.7	2562.8	2576.5
55°	8072.4	3361.2	2247.2	2192.3	2118.3	2266.4	2346.0	2357.0	2373.4	2428.3	2436.5
57.5°	8261.7	3377.7	2110.0	2038.7	1983.8	2145.7	2280.1	2288.4	2277.4	2343.2	2354.2
60°	8319.4	3369.4	2008.5	1868.6	1835.6	2016.7	2184.1	2200.6	2197.8	2293.9	2313.1
62.5°	8077.9	3265.2	1907.0	1725.9	1703.9	1885.0	2049.7	2115.5	2129.2	2266.4	2291.1
65°	7509.9	3051.2	1772.5	1575.0	1575.0	1745.1	1920.7	2011.2	2049.7	2233.5	2260.9
67.5°	6760.8	2798.7	1635.3	1446.0	1440.5	1610.6	1783.5	1876.8	1937.2	2186.8	2203.3
70°	5611.2	2458.5	1465.2	1306.1	1306.1	1459.7	1616.1	1728.6	1816.4	2099.0	2099.0
72.5°	3844.1	2044.2	1259.4	1146.9	1149.7	1292.4	1451.5	1577.7	1682.0	1923.4	1928.9
75°	2431.1	1596.9	1034.4	976.8	987.8	1122.2	1286.9	1418.6	1627.1	1901.5	1909.7
77.5°	1292.4	1122.2	823.2	809.4	823.2	946.6	1130.5	1311.6	1632.6	1649.1	1621.6
80°	836.9	795.7	650.3	622.9	628.3	762.8	1007.0	1245.7	1311.6	1328.0	1267.7
82.5°	455.5	504.9	461.0	433.5	433.5	595.4	858.8	990.5	941.1	782.0	746.3
85°	194.8	236.0	238.7	208.5	200.3	367.7	576.2	540.5	502.1	480.2	474.7
87.5°	54.9	76.8	76.8	57.6	43.9	101.5	115.2	32.9	0.0	2.7	5.5
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)