

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: P452456

Luminaire Tested: **GALN-SA3B-830-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452456
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-SA3B-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 13630 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 121
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



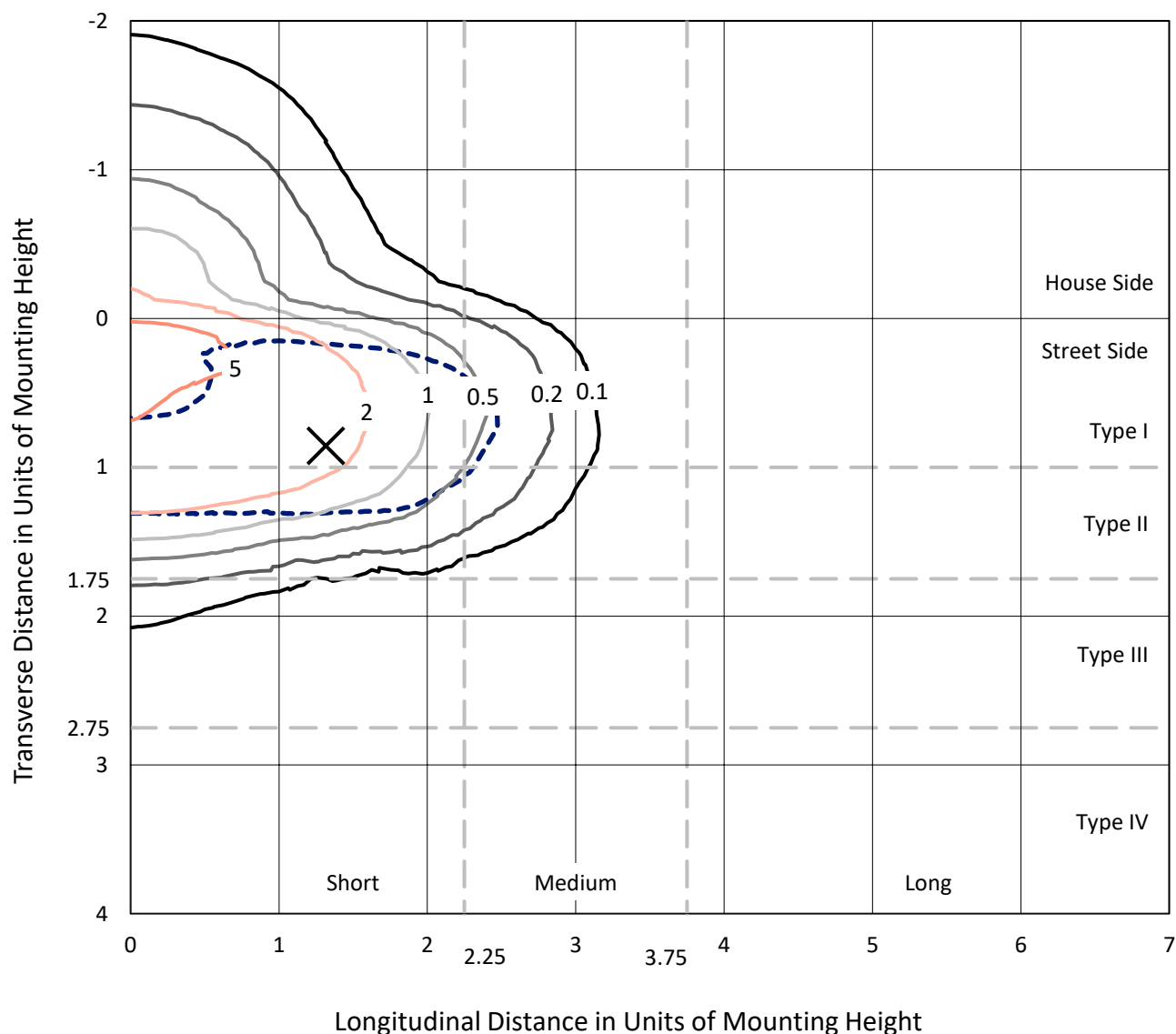
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



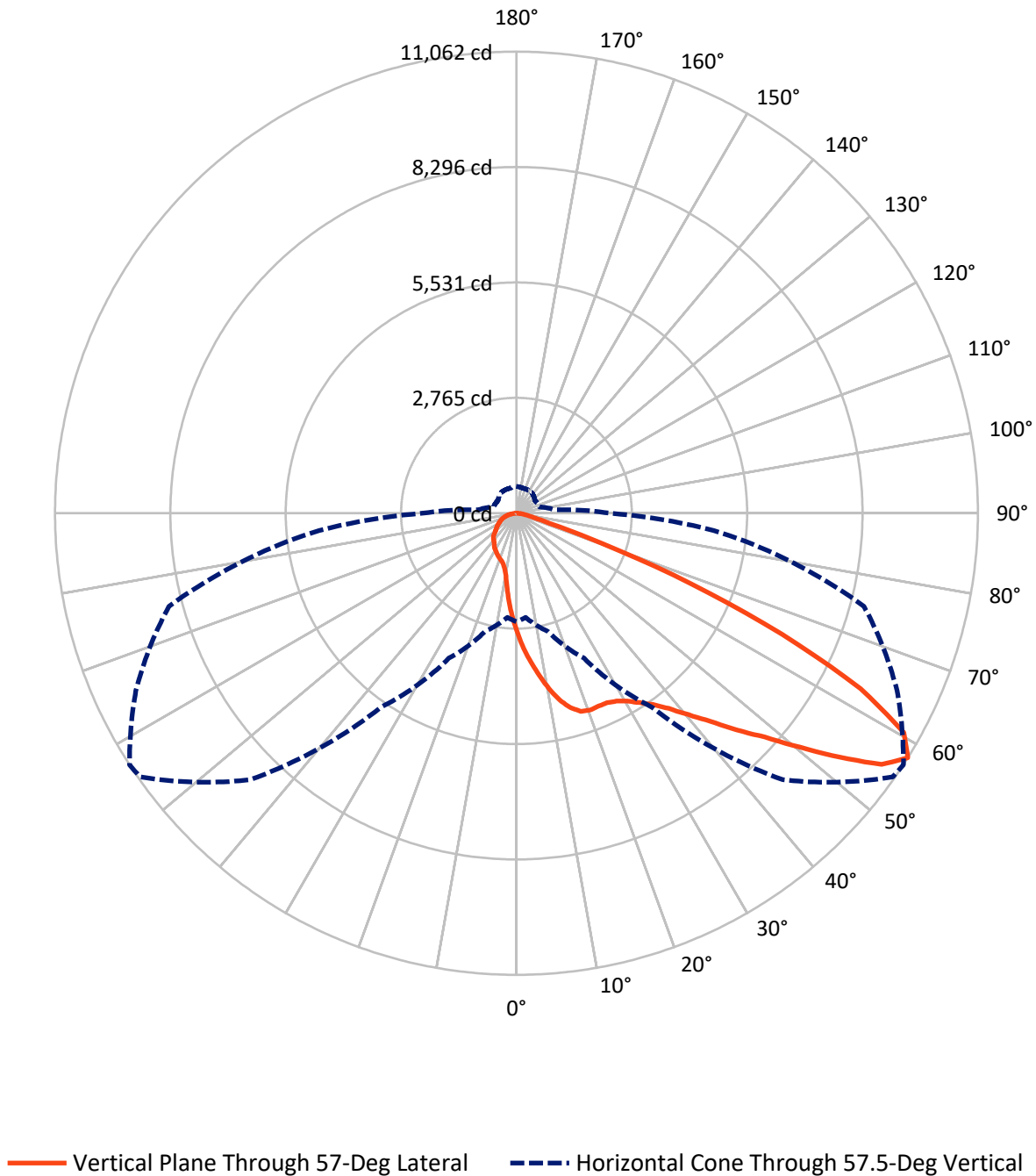
Based on 25 foot mounting height. Maximum calculated value = 7 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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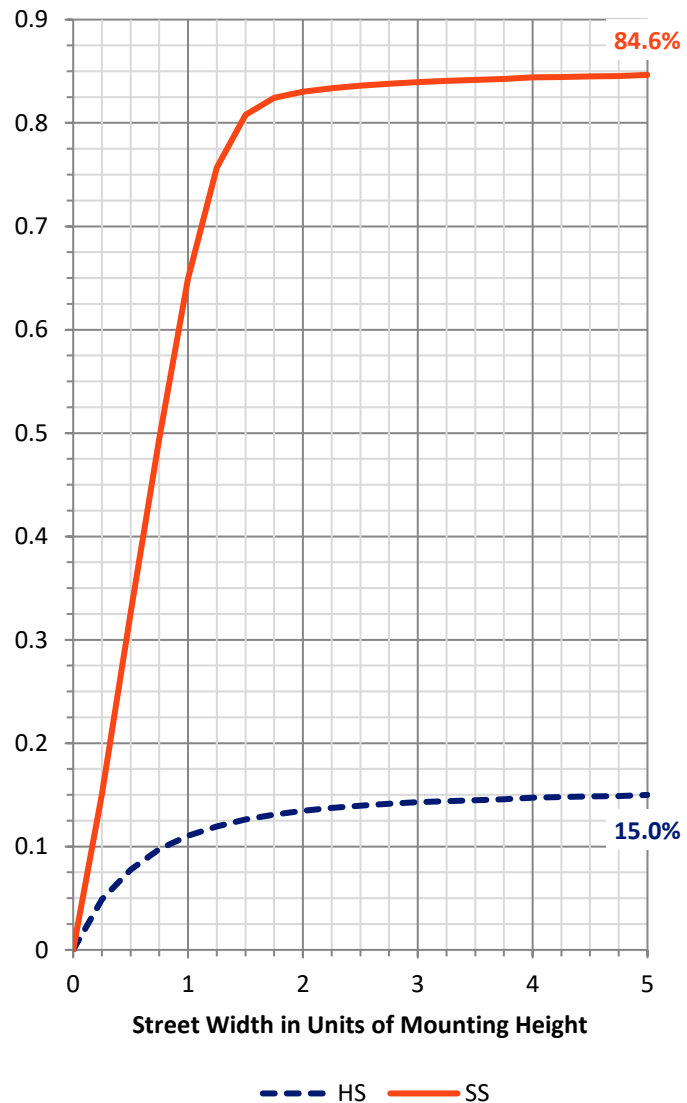
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2072.7	0.0	2072.7
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	11557.3	0.0	11557.3
	% Fixture	84.8	0.0	84.8
Total	Lumens	13630.0	0.0	13630.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.2	2.0
10°-20°	811.1	6.0
20°-30°	1346.8	9.9
30°-40°	2028.6	14.9
40°-50°	3045.8	22.3
50°-60°	3414.0	25.0
60°-70°	1998.0	14.7
70°-80°	591.0	4.3
80°-90°	119.5	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°	13630.0	100.0
0°-180°	13630.0	100.0

Coefficient of Utilization



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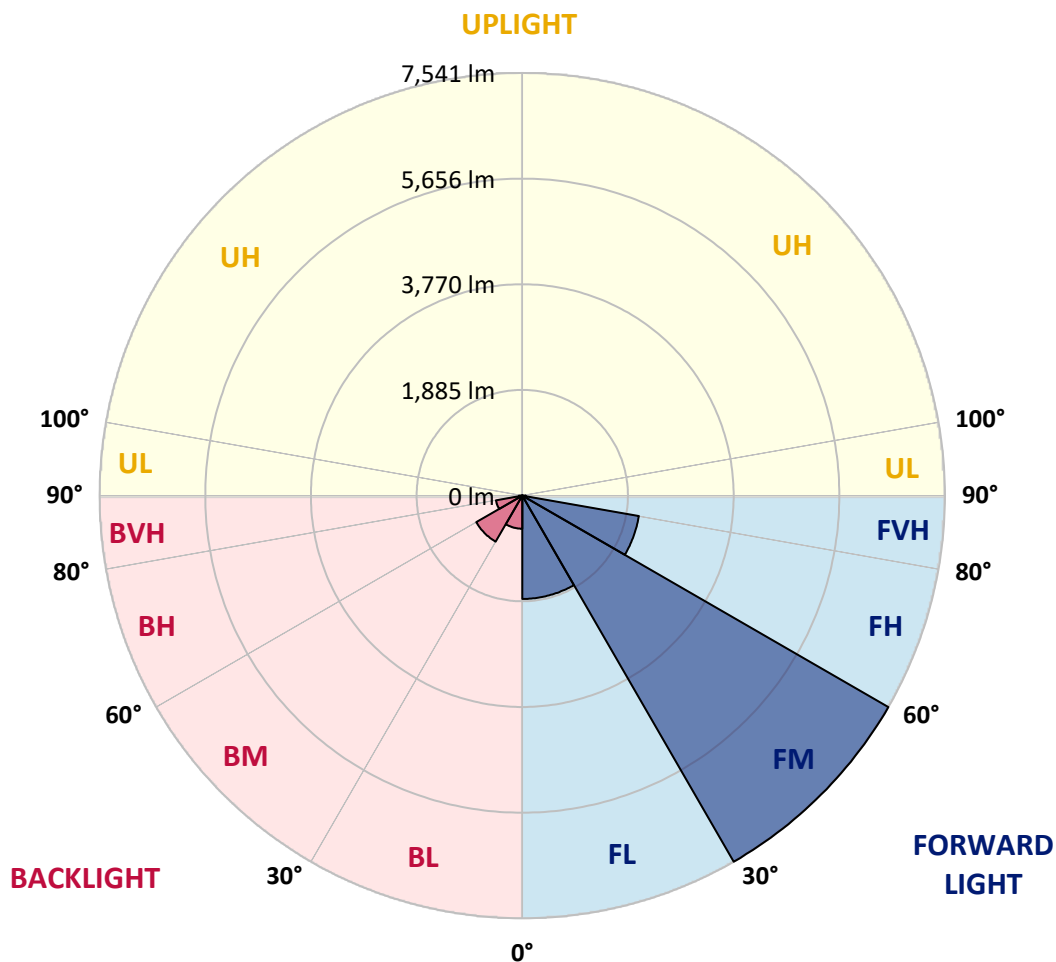
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1842.5	13.5			
FM	(30°-60°)	7540.7	55.3			
FH	(60°-80°)	2112.1	15.5			G2/5000
FVH	(80°-90°)	62.0	0.5			G1/100
BL	(0°-30°)	590.6	4.3	B2/1000		
BM	(30°-60°)	947.7	7.0	B1/1000		
BH	(60°-80°)	476.9	3.5	B1/500		G1/500
BVH	(80°-90°)	57.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2863.5	2863.5	2863.5	2863.5	2863.5	2863.5	2863.5	2863.5	2863.5	2863.5	2863.5
2.5°	3558.1	3519.3	3488.7	3461.9	3426.8	3332.1	3237.3	3235.8	3160.5	3044.1	2924.7
5°	4137.8	4085.6	4092.3	4008.8	3925.2	3787.9	3587.2	3576.8	3416.4	3198.5	2976.9
7.5°	4515.4	4516.1	4495.2	4447.5	4357.2	4201.3	3973.7	3922.2	3699.1	3368.6	3036.6
10°	4496.0	4516.1	4551.2	4592.2	4619.8	4543.0	4335.5	4272.9	3982.6	3574.5	3103.0
12.5°	4237.8	4269.1	4319.1	4422.1	4588.5	4715.3	4644.4	4593.7	4310.9	3779.7	3176.1
15°	4076.7	4095.3	4122.9	4192.3	4371.4	4675.0	4858.6	4831.7	4620.6	4011.7	3258.2
17.5°	4027.4	4046.1	4055.0	4097.5	4225.1	4536.2	4942.9	4990.6	4895.1	4225.1	3341.0
20°	4076.7	4085.6	4085.6	4111.0	4211.0	4454.9	4939.1	5035.4	5120.4	4481.0	3418.6
22.5°	4205.7	4209.5	4204.2	4213.2	4287.8	4477.3	4904.1	5023.4	5302.5	4698.2	3479.0
25°	4415.4	4421.4	4387.0	4366.1	4420.6	4575.8	4923.5	5033.1	5445.0	4905.6	3519.3
27.5°	4653.4	4660.8	4619.1	4570.6	4595.9	4697.4	4999.6	5098.1	5551.7	5110.0	3544.7
30°	4945.1	4948.1	4878.0	4819.8	4803.4	4878.7	5129.4	5221.2	5684.5	5351.0	3582.7
32.5°	5243.5	5265.9	5175.7	5093.6	5066.0	5089.1	5321.1	5409.9	5842.7	5609.9	3643.9
35°	5649.4	5653.2	5545.0	5445.0	5354.0	5383.8	5566.6	5630.8	6061.3	5909.1	3730.5
37.5°	6156.0	6190.3	6041.1	5854.6	5742.7	5699.4	5863.5	5933.7	6367.9	6276.1	3861.0
40°	6718.6	6731.3	6603.7	6487.3	6282.9	6157.5	6270.9	6347.0	6746.2	6714.1	4012.5
42.5°	7072.2	7099.8	7109.5	7097.6	6943.9	6733.5	6776.8	6812.6	7193.8	7125.2	4167.7
45°	7191.6	7232.6	7371.4	7665.4	7681.8	7474.4	7373.6	7408.0	7681.8	7540.0	4316.2
47.5°	6993.9	7064.0	7319.9	7922.8	8374.2	8389.8	8086.2	8010.8	8126.5	7884.0	4423.6
50°	6482.8	6497.7	6889.4	7762.4	8698.7	9265.0	8950.9	8810.6	8548.7	8138.4	4497.5
52.5°	5691.9	5709.1	6037.4	7017.0	8498.8	9876.8	9962.6	9711.9	8977.7	8336.1	4545.9
55°	4225.1	4324.4	4685.5	5632.3	7551.2	9819.3	10766.9	10624.4	9496.3	8492.8	4622.0
57.5°	2597.9	2506.9	2935.1	3831.9	5679.3	9030.0	11015.3	11061.6	10067.0	8624.1	4749.6
60°	1195.2	1213.1	1390.0	1976.4	3461.9	7064.0	10375.2	10667.6	10382.6	8619.6	4781.7
62.5°	823.7	807.3	762.5	867.7	1578.7	4467.6	8763.6	9259.0	9750.0	8351.8	4654.1
65°	736.4	720.0	633.4	604.3	725.2	1947.3	6370.9	6996.1	8209.3	7675.8	4336.3
67.5°	687.9	665.5	576.0	519.3	517.8	775.2	3756.6	4509.4	6088.9	6489.5	3757.3
70°	637.2	619.3	530.5	467.8	440.9	487.2	1651.1	2161.4	3953.5	4676.5	2926.9
72.5°	586.4	565.5	485.7	418.6	383.5	364.8	632.7	822.9	2233.8	2803.8	1794.4
75°	512.6	502.1	434.2	379.0	341.0	294.7	401.4	458.1	1068.4	1287.8	900.5
77.5°	448.4	437.2	385.7	331.3	303.7	239.5	285.0	311.1	450.6	522.3	406.6
80°	328.3	339.5	325.3	292.5	270.8	188.0	191.7	213.4	267.8	296.2	248.4
82.5°	208.2	229.1	250.7	225.3	205.2	148.5	132.8	141.0	182.8	194.0	110.4
85°	87.3	88.8	145.5	137.3	117.1	88.0	79.8	84.3	97.7	102.2	51.5
87.5°	33.6	32.8	51.5	47.7	36.6	25.4	25.4	28.4	38.8	35.8	16.4
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°	2863.5	2863.5	2863.5	2863.5	2863.5	2863.5	2863.5	2863.5	2863.5	2863.5	2863.5
2.5°	2873.2	2820.2	2715.0	2584.5	2489.0	2381.5	2286.8	2218.9	2193.5	2181.6	2159.2
5°	2871.0	2766.5	2548.7	2320.4	2136.8	1948.8	1789.9	1686.9	1678.0	1609.3	1602.6
7.5°	2871.7	2712.1	2365.1	2029.4	1749.6	1557.1	1425.8	1391.5	1350.4	1340.0	1345.2
10°	2874.0	2642.7	2168.1	1741.4	1470.6	1344.5	1295.2	1281.8	1283.3	1287.8	1288.5
12.5°	2876.9	2575.5	1963.7	1522.8	1313.9	1261.6	1256.4	1268.4	1281.0	1290.7	1293.0
15°	2880.7	2498.7	1764.5	1346.7	1235.5	1231.1	1248.2	1268.4	1286.3	1300.4	1302.7
17.5°	2876.2	2409.1	1597.4	1238.5	1192.3	1213.9	1242.2	1267.6	1284.0	1297.5	1298.9
20°	2865.7	2309.2	1436.2	1162.4	1165.4	1200.5	1231.1	1254.9	1272.8	1279.6	1284.8
22.5°	2825.5	2189.8	1296.0	1103.5	1133.3	1181.8	1218.4	1232.5	1212.4	1198.2	1202.0
25°	2756.8	2034.6	1165.4	1055.7	1104.2	1155.7	1193.0	1158.7	1142.3	1136.3	1139.3
27.5°	2671.0	1864.5	1066.9	1005.7	1066.9	1126.6	1116.2	1110.2	1102.7	1093.0	1095.3
30°	2578.5	1698.1	983.4	966.9	1026.6	1060.9	1065.4	1075.1	1066.9	1052.0	1058.0
32.5°	2492.7	1541.4	919.9	934.1	998.3	993.1	1026.6	1037.8	999.8	949.8	952.0
35°	2419.6	1395.9	872.2	902.0	949.8	952.0	985.6	946.8	905.8	881.9	883.4
37.5°	2364.4	1282.5	840.8	874.4	887.9	916.2	898.3	878.2	872.9	856.5	857.3
40°	2331.5	1183.3	820.7	852.8	850.5	869.9	812.5	832.6	840.1	834.9	835.6
42.5°	2298.7	1113.2	799.8	822.9	822.2	784.1	771.5	788.6	808.0	810.3	808.8
45°	2272.6	1058.7	778.2	777.4	792.4	732.7	728.9	739.4	767.0	780.4	779.7
47.5°	2243.5	1013.2	745.3	724.5	728.9	700.6	694.6	699.1	732.7	754.3	760.3
50°	2206.9	967.7	704.3	676.0	657.3	670.7	672.2	673.0	706.6	731.2	736.4
52.5°	2177.8	933.4	657.3	636.4	614.0	643.9	655.1	656.6	676.7	696.9	700.6
55°	2195.0	914.0	611.1	596.1	576.0	616.3	637.9	640.9	645.4	660.3	662.5
57.5°	2246.5	918.4	573.7	554.3	539.4	583.4	620.0	622.2	619.3	637.2	640.1
60°	2262.2	916.2	546.1	508.1	499.1	548.4	593.9	598.4	597.6	623.7	629.0
62.5°	2196.5	887.9	518.5	469.3	463.3	512.6	557.3	575.2	579.0	616.3	623.0
65°	2042.1	829.7	482.0	428.3	428.3	474.5	522.3	546.9	557.3	607.3	614.8
67.5°	1838.4	761.0	444.7	393.2	391.7	438.0	485.0	510.3	526.7	594.6	599.1
70°	1525.8	668.5	398.4	355.1	355.1	396.9	439.4	470.0	493.9	570.8	570.8
72.5°	1045.3	555.8	342.5	311.9	312.6	351.4	394.7	429.0	457.4	523.0	524.5
75°	661.0	434.2	281.3	265.6	268.6	305.2	349.9	385.7	442.4	517.0	519.3
77.5°	351.4	305.2	223.8	220.1	223.8	257.4	307.4	356.6	443.9	448.4	440.9
80°	227.6	216.4	176.8	169.4	170.9	207.4	273.8	338.7	356.6	361.1	344.7
82.5°	123.9	137.3	125.3	117.9	117.9	161.9	233.5	269.3	255.9	212.6	202.9
85°	53.0	64.2	64.9	56.7	54.5	100.0	156.7	147.0	136.5	130.6	129.1
87.5°	14.9	20.9	20.9	15.7	11.9	27.6	31.3	9.0	0.0	0.7	1.5
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)