

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: P451760

Luminaire Tested: **GALN-SA2C-830-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451760
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-SA2C-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11345 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 108
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



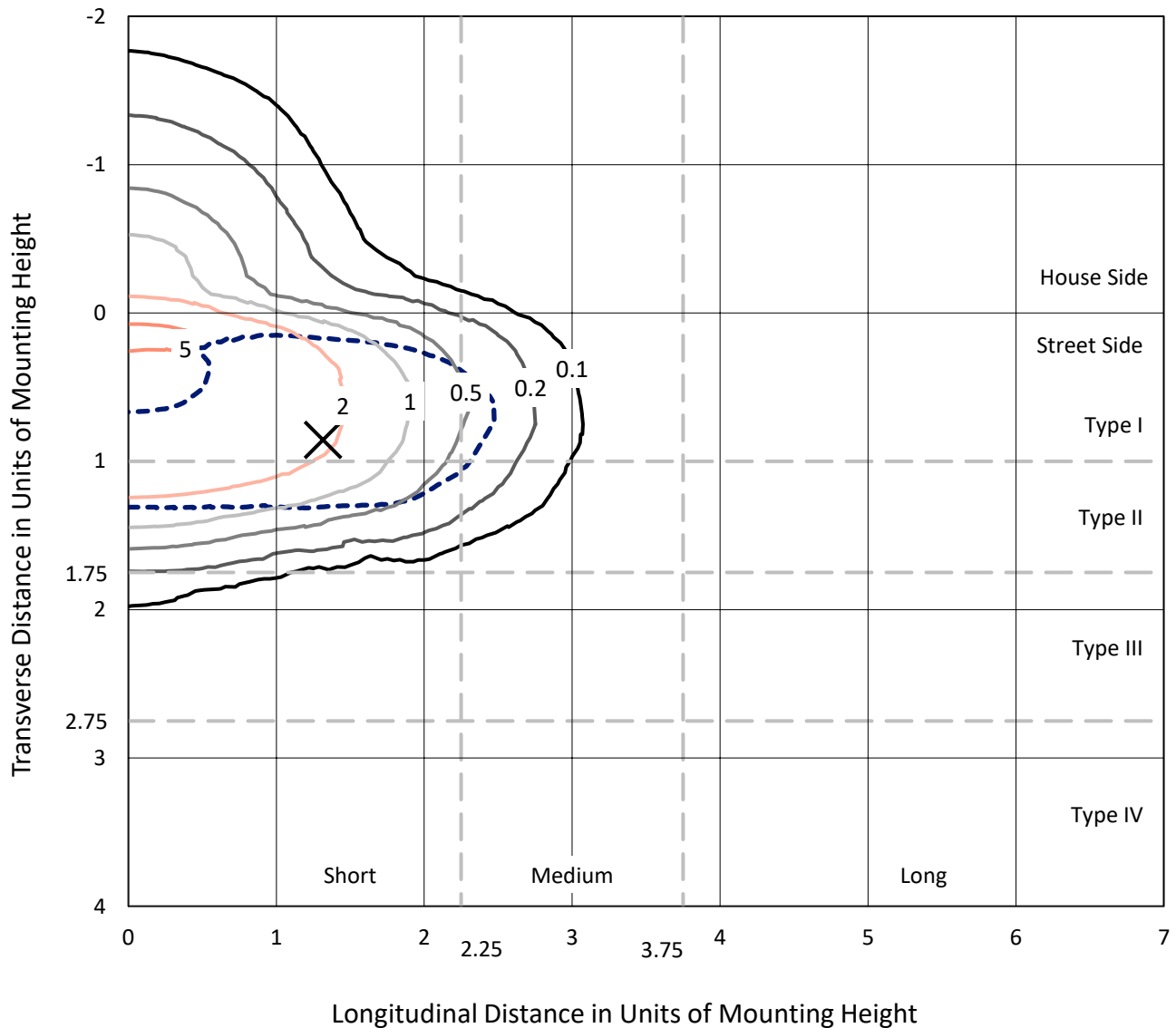
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



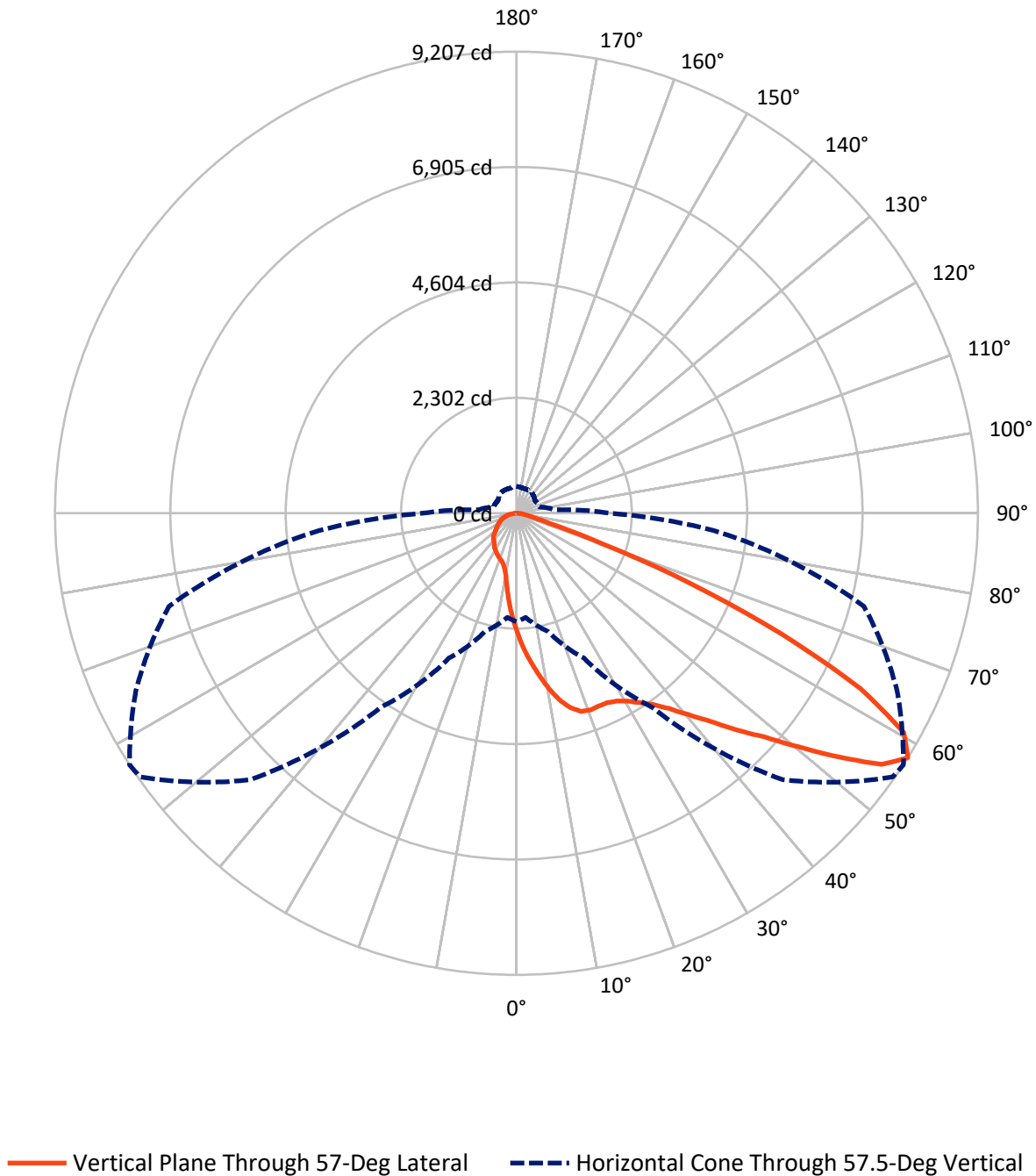
Based on 25 foot mounting height. Maximum calculated value = 5.8 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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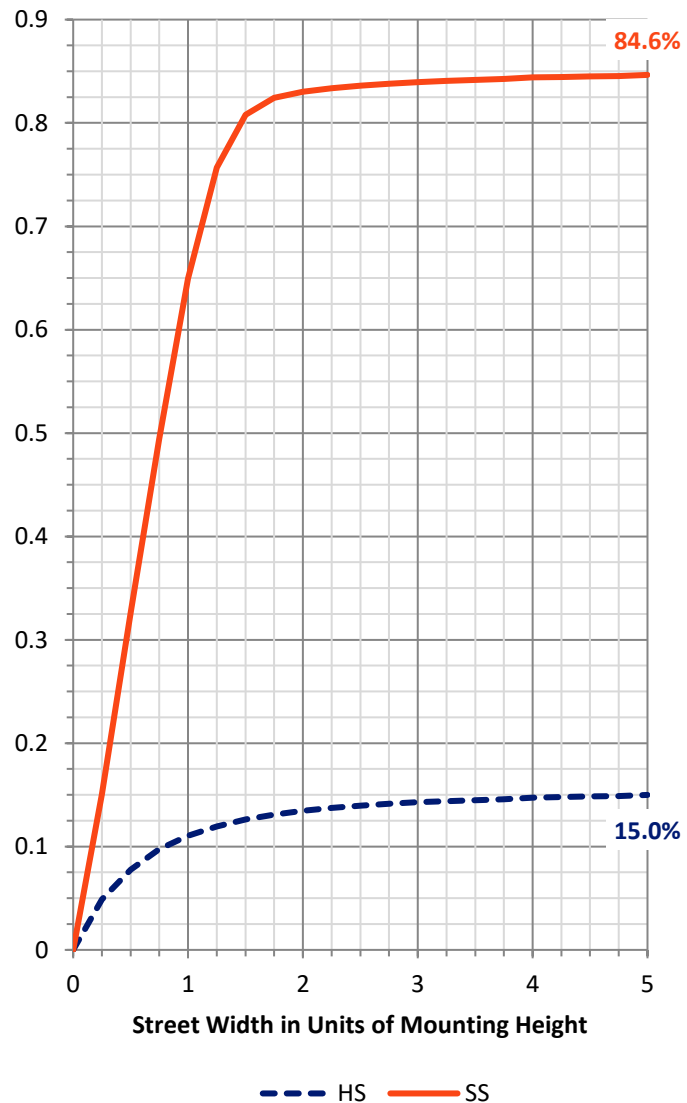
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1725.3	0.0	1725.3
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	9619.7	0.0	9619.7
	% Fixture	84.8	0.0	84.8
Total	Lumens	11345.0	0.0	11345.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.1	2.0
10°-20°	675.1	6.0
20°-30°	1121.0	9.9
30°-40°	1688.6	14.9
40°-50°	2535.2	22.3
50°-60°	2841.7	25.0
60°-70°	1663.1	14.7
70°-80°	491.9	4.3
80°-90°	99.4	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°	11345.0	100.0
0°-180°	11345.0	100.0

Coefficient of Utilization



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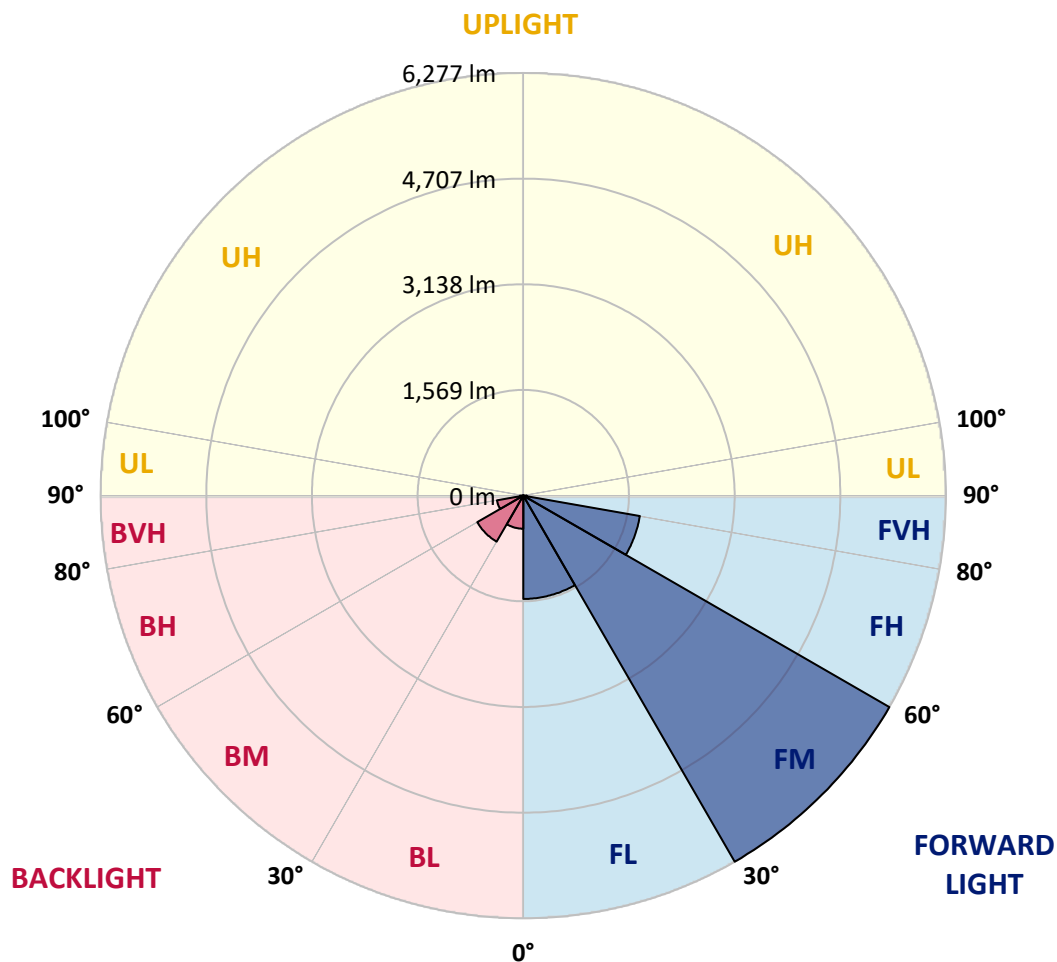
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1533.6	13.5			
FM	(30°-60°)	6276.6	55.3			
FH	(60°-80°)	1758.0	15.5			G1/1800
FVH	(80°-90°)	51.6	0.5			G1/100
BL	(0°-30°)	491.6	4.3	B1/500		
BM	(30°-60°)	788.9	7.0	B1/1000		
BH	(60°-80°)	397.0	3.5	B1/500		G1/500
BVH	(80°-90°)	47.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5
2.5°	2961.6	2929.3	2903.9	2881.5	2852.3	2773.5	2694.6	2693.3	2630.6	2533.7	2434.4
5°	3444.1	3400.7	3406.3	3336.7	3267.2	3152.9	2985.8	2977.1	2843.6	2662.3	2477.8
7.5°	3758.4	3759.0	3741.6	3701.9	3626.7	3496.9	3307.5	3264.7	3079.0	2803.9	2527.5
10°	3742.2	3759.0	3788.2	3822.3	3845.3	3781.4	3608.7	3556.6	3315.0	2975.3	2582.8
12.5°	3527.4	3553.4	3595.1	3680.8	3819.2	3924.8	3865.8	3823.6	3588.2	3146.1	2643.7
15°	3393.2	3408.8	3431.7	3489.5	3638.5	3891.3	4044.0	4021.7	3845.9	3339.2	2712.0
17.5°	3352.2	3367.8	3375.2	3410.6	3516.8	3775.8	4114.2	4154.0	4074.5	3516.8	2780.9
20°	3393.2	3400.7	3400.7	3421.8	3505.0	3708.1	4111.1	4191.2	4262.0	3729.8	2845.5
22.5°	3500.7	3503.8	3499.4	3506.9	3569.0	3726.7	4081.9	4181.3	4413.6	3910.5	2895.8
25°	3675.2	3680.1	3651.6	3634.2	3679.5	3808.7	4098.1	4189.4	4532.2	4083.2	2929.3
27.5°	3873.3	3879.5	3844.7	3804.3	3825.5	3909.9	4161.4	4243.4	4621.0	4253.3	2950.4
30°	4116.1	4118.6	4060.2	4011.8	3998.1	4060.8	4269.5	4345.9	4731.5	4453.9	2982.1
32.5°	4364.5	4383.1	4308.0	4239.7	4216.7	4235.9	4429.1	4503.0	4863.2	4669.4	3033.0
35°	4702.3	4705.4	4615.4	4532.2	4456.4	4481.2	4633.4	4686.8	5045.1	4918.4	3105.1
37.5°	5124.0	5152.6	5028.4	4873.1	4780.0	4743.9	4880.6	4938.9	5300.4	5224.0	3213.8
40°	5592.2	5602.8	5496.6	5399.7	5229.6	5125.2	5219.6	5283.0	5615.2	5588.5	3339.8
42.5°	5886.6	5909.6	5917.6	5907.7	5779.8	5604.7	5640.7	5670.5	5987.8	5930.7	3469.0
45°	5986.0	6020.1	6135.6	6380.3	6394.0	6221.3	6137.5	6166.1	6394.0	6276.0	3592.6
47.5°	5821.4	5879.8	6092.8	6594.6	6970.3	6983.3	6730.6	6667.8	6764.1	6562.3	3682.0
50°	5396.0	5408.4	5734.5	6461.0	7240.4	7711.8	7450.3	7333.6	7115.6	6774.0	3743.5
52.5°	4737.7	4752.0	5025.3	5840.6	7074.0	8221.0	8292.4	8083.7	7472.7	6938.6	3783.8
55°	3516.8	3599.4	3900.0	4688.0	6285.3	8173.2	8961.9	8843.3	7904.3	7069.0	3847.2
57.5°	2162.4	2086.6	2443.1	3189.5	4727.2	7516.1	9168.7	9207.2	8379.4	7178.3	3953.4
60°	994.9	1009.8	1157.0	1645.1	2881.5	5879.8	8635.8	8879.3	8642.0	7174.6	3980.1
62.5°	685.6	671.9	634.7	722.2	1314.1	3718.6	7294.4	7706.8	8115.4	6951.6	3873.9
65°	612.9	599.3	527.2	503.0	603.6	1620.8	5302.8	5823.3	6833.0	6389.0	3609.3
67.5°	572.6	553.9	479.4	432.2	431.0	645.2	3126.8	3753.4	5068.1	5401.6	3127.4
70°	530.3	515.4	441.5	389.4	367.0	405.5	1374.3	1799.1	3290.8	3892.5	2436.2
72.5°	488.1	470.7	404.3	348.4	319.2	303.7	526.6	685.0	1859.3	2333.8	1493.5
75°	426.6	417.9	361.4	315.5	283.8	245.3	334.1	381.3	889.3	1071.9	749.6
77.5°	373.2	363.9	321.1	275.7	252.8	199.3	237.2	259.0	375.1	434.7	338.5
80°	273.2	282.6	270.8	243.4	225.4	156.5	159.6	177.6	222.9	246.5	206.8
82.5°	173.3	190.7	208.7	187.5	170.8	123.6	110.5	117.4	152.1	161.5	91.9
85°	72.7	73.9	121.1	114.3	97.5	73.3	66.4	70.2	81.4	85.1	42.9
87.5°	27.9	27.3	42.9	39.7	30.4	21.1	21.1	23.6	32.3	29.8	13.7
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°	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5
2.5°	2391.5	2347.4	2259.9	2151.2	2071.7	1982.3	1903.4	1846.9	1825.8	1815.8	1797.2
5°	2389.7	2302.7	2121.4	1931.4	1778.6	1622.1	1489.8	1404.1	1396.7	1339.5	1333.9
7.5°	2390.3	2257.4	1968.6	1689.2	1456.3	1296.1	1186.8	1158.2	1124.0	1115.3	1119.7
10°	2392.1	2199.6	1804.7	1449.4	1224.0	1119.1	1078.1	1066.9	1068.1	1071.9	1072.5
12.5°	2394.6	2143.7	1634.5	1267.5	1093.6	1050.1	1045.8	1055.7	1066.3	1074.4	1076.2
15°	2397.7	2079.8	1468.7	1120.9	1028.4	1024.7	1039.0	1055.7	1070.6	1082.4	1084.3
17.5°	2394.0	2005.3	1329.6	1030.9	992.4	1010.4	1034.0	1055.1	1068.8	1079.9	1081.2
20°	2385.3	1922.0	1195.5	967.5	970.0	999.2	1024.7	1044.5	1059.5	1065.0	1069.4
22.5°	2351.8	1822.7	1078.7	918.5	943.3	983.7	1014.1	1025.9	1009.1	997.3	1000.5
25°	2294.6	1693.5	970.0	878.7	919.1	962.0	993.0	964.4	950.8	945.8	948.3
27.5°	2223.2	1551.9	888.1	837.1	888.1	937.7	929.0	924.1	917.9	909.8	911.6
30°	2146.2	1413.4	818.5	804.8	854.5	883.1	886.8	894.9	888.1	875.6	880.6
32.5°	2074.8	1283.0	765.7	777.5	830.9	826.6	854.5	863.8	832.2	790.6	792.4
35°	2014.0	1161.9	726.0	750.8	790.6	792.4	820.4	788.1	753.9	734.0	735.3
37.5°	1968.0	1067.5	699.9	727.8	739.0	762.6	747.7	730.9	726.6	712.9	713.5
40°	1940.7	984.9	683.1	709.8	708.0	724.1	676.3	693.1	699.3	694.9	695.5
42.5°	1913.3	926.6	665.7	685.0	684.4	652.7	642.1	656.4	672.6	674.4	673.2
45°	1891.6	881.2	647.7	647.1	659.5	609.8	606.7	615.4	638.4	649.6	649.0
47.5°	1867.4	843.3	620.4	603.0	606.7	583.1	578.2	581.9	609.8	627.8	632.8
50°	1837.0	805.5	586.2	562.6	547.1	558.3	559.5	560.2	588.1	608.6	612.9
52.5°	1812.7	776.9	547.1	529.7	511.1	535.9	545.3	546.5	563.3	580.0	583.1
55°	1827.0	760.7	508.6	496.2	479.4	513.0	531.0	533.5	537.2	549.6	551.5
57.5°	1869.9	764.5	477.6	461.4	449.0	485.6	516.1	517.9	515.4	530.3	532.8
60°	1882.9	762.6	454.6	422.9	415.5	456.4	494.3	498.1	497.4	519.2	523.5
62.5°	1828.3	739.0	431.6	390.6	385.7	426.6	463.9	478.8	481.9	513.0	518.5
65°	1699.7	690.6	401.2	356.5	356.5	395.0	434.7	455.2	463.9	505.5	511.7
67.5°	1530.2	633.4	370.1	327.3	326.0	364.5	403.7	424.8	438.4	494.9	498.7
70°	1270.0	556.4	331.6	295.6	295.6	330.4	365.8	391.2	411.1	475.1	475.1
72.5°	870.0	462.7	285.0	259.6	260.2	292.5	328.5	357.1	380.7	435.3	436.6
75°	550.2	361.4	234.1	221.1	223.6	254.0	291.3	321.1	368.3	430.4	432.2
77.5°	292.5	254.0	186.3	183.2	186.3	214.3	255.9	296.8	369.5	373.2	367.0
80°	189.4	180.1	147.2	141.0	142.2	172.6	227.9	281.9	296.8	300.6	286.9
82.5°	103.1	114.3	104.3	98.1	98.1	134.8	194.4	224.2	213.0	177.0	168.9
85°	44.1	53.4	54.0	47.2	45.3	83.2	130.4	122.3	113.6	108.7	107.4
87.5°	12.4	17.4	17.4	13.0	9.9	23.0	26.1	7.5	0.0	0.6	1.2
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)