

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: P453618

Luminaire Tested: **GALN-SA4C-830-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18088 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 213
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

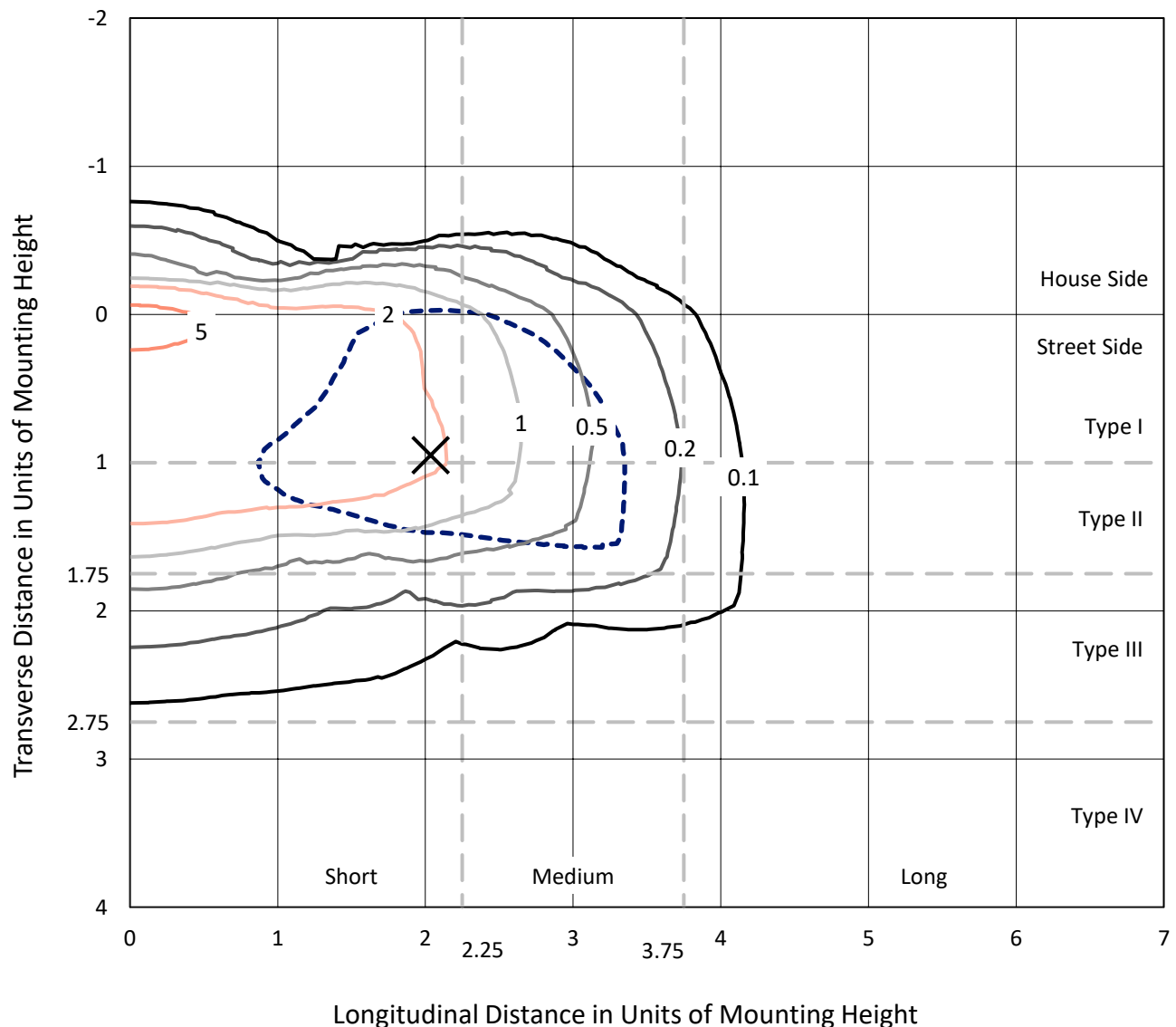


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Iso-Footcandle Lines of Horizontal Illumination

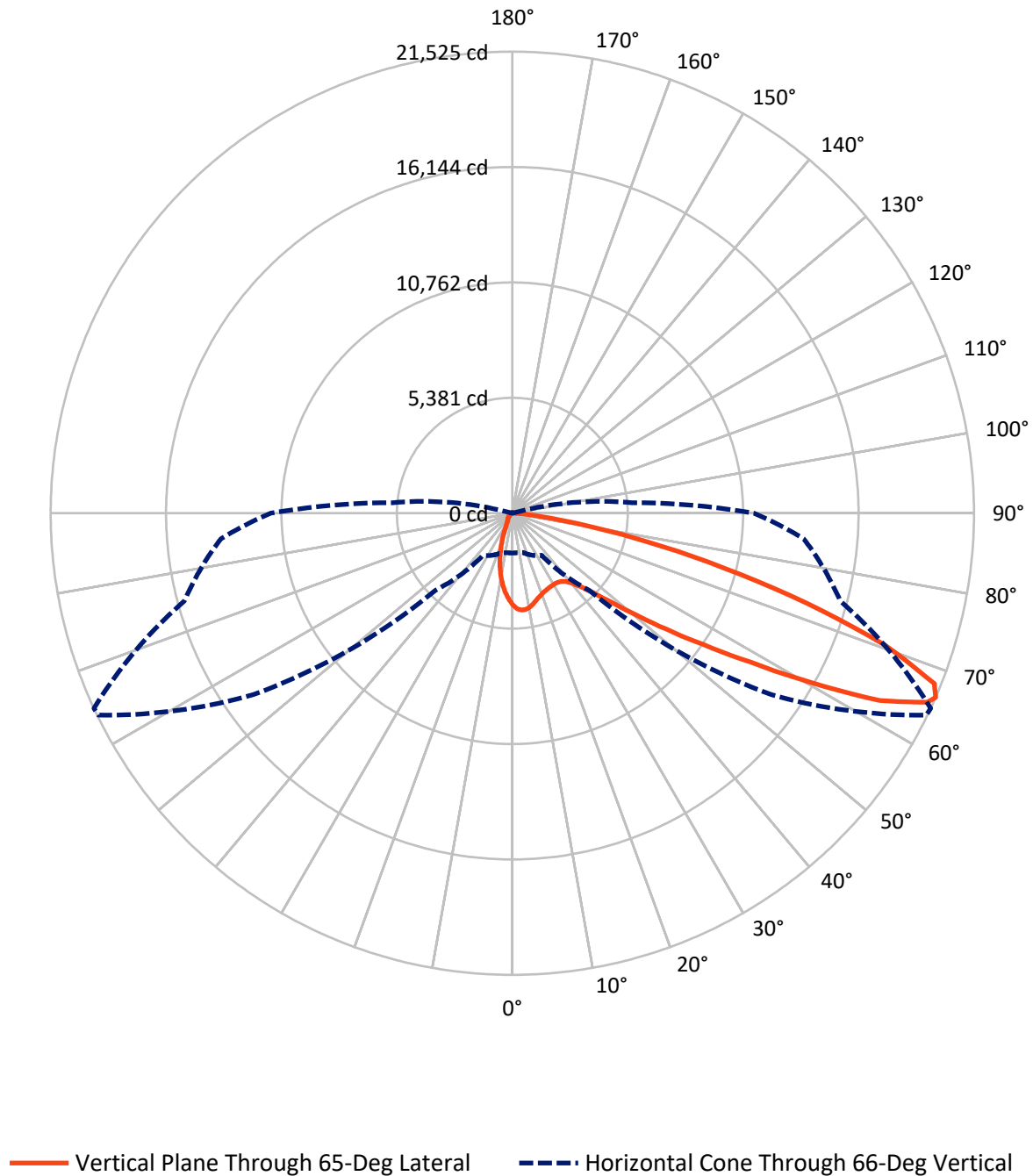
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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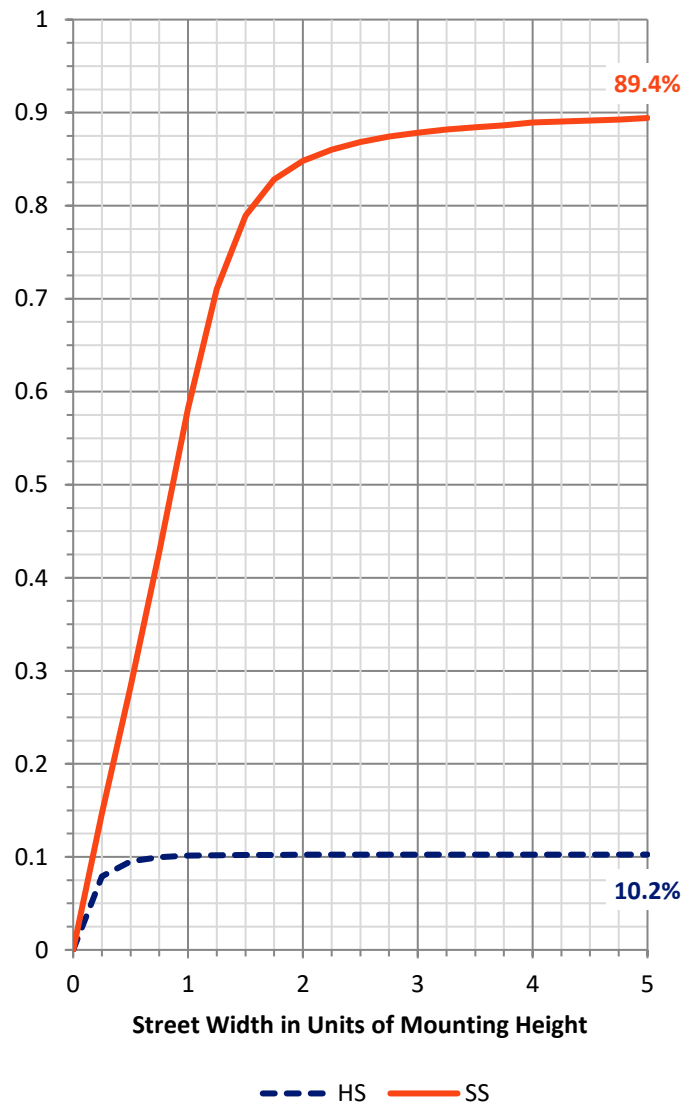
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1870.6	0.0	1870.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	16217.5	0.0	16217.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	18088.0	0.0	18088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.8	1.9
10°-20°	764.3	4.2
20°-30°	1094.9	6.1
30°-40°	1599.2	8.8
40°-50°	2681.6	14.8
50°-60°	4475.2	24.7
60°-70°	4750.3	26.3
70°-80°	2151.4	11.9
80°-90°	220.1	1.2
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°	18088.0	100.0
0°-180°	18088.0	100.0

Coefficient of Utilization



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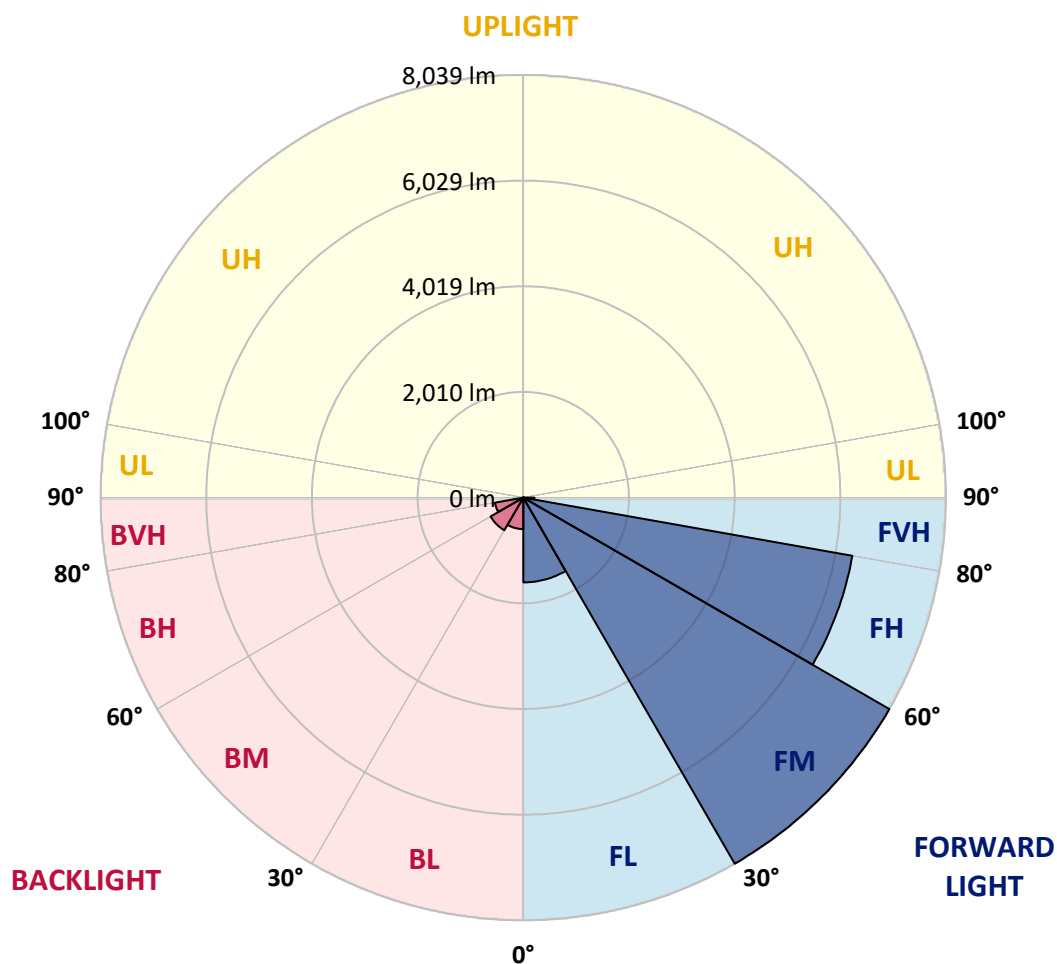
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1611.7	8.9			
FM	(30°-60°)	8038.7	44.4			
FH	(60°-80°)	6353.9	35.1			G3/7500
FVH	(80°-90°)	213.1	1.2			G2/225
BL	(0°-30°)	598.4	3.3	B2/1000		
BM	(30°-60°)	717.4	4.0	B1/1000		
BH	(60°-80°)	547.8	3.0	B2/1000		G2/1000
BVH	(80°-90°)	7.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4289.3	4289.3	4289.3	4289.3	4289.3	4289.3	4289.3	4289.3	4289.3	4289.3	4289.3
2.5°	4520.2	4525.1	4531.2	4539.8	4545.9	4527.6	4501.9	4472.6	4466.5	4404.2	4328.4
5°	4278.3	4285.7	4339.4	4368.7	4434.7	4494.6	4532.4	4537.3	4534.9	4476.2	4355.3
7.5°	3933.8	3954.6	4007.1	4058.4	4181.8	4295.4	4429.8	4523.9	4530.0	4514.1	4363.9
10°	3654.1	3667.5	3694.4	3795.8	3898.4	4071.9	4260.0	4437.2	4451.8	4515.3	4356.5
12.5°	3435.4	3454.9	3487.9	3566.1	3689.5	3853.2	4067.0	4305.2	4335.8	4492.1	4335.8
15°	3282.7	3292.4	3325.4	3402.4	3522.1	3673.6	3889.8	4167.2	4194.0	4461.6	4332.1
17.5°	3210.6	3221.6	3244.8	3305.9	3404.8	3545.3	3756.7	4056.0	4090.2	4442.0	4345.5
20°	3230.1	3239.9	3241.1	3272.9	3340.1	3458.6	3658.9	3952.1	3996.1	4429.8	4367.5
22.5°	3341.3	3342.5	3327.9	3313.2	3336.4	3421.9	3599.1	3886.2	3931.4	4427.4	4393.2
25°	3507.5	3511.1	3486.7	3435.4	3389.0	3432.9	3585.6	3843.4	3883.7	4421.3	4409.1
27.5°	3737.1	3735.9	3728.6	3643.1	3511.1	3481.8	3596.6	3820.2	3854.4	4404.2	4415.2
30°	4058.4	4048.7	4032.8	3936.3	3734.7	3600.3	3643.1	3805.5	3837.3	4379.7	4399.3
32.5°	4374.8	4411.5	4409.1	4317.4	4065.8	3811.7	3739.6	3825.1	3848.3	4363.9	4376.1
35°	4743.8	4742.6	4836.6	4802.4	4508.0	4081.6	3904.5	3889.8	3908.2	4374.8	4365.1
37.5°	5085.9	5117.6	5264.2	5299.7	5030.9	4462.8	4137.8	4029.1	4035.2	4449.4	4392.0
40°	5512.2	5573.3	5792.0	5910.5	5673.5	5028.5	4482.4	4284.4	4285.7	4632.6	4493.4
42.5°	6062.0	6158.5	6362.5	6560.4	6433.4	5697.9	4999.1	4688.8	4686.4	4955.1	4725.5
45°	6730.3	6797.4	7029.6	7343.5	7262.9	6632.5	5751.7	5315.5	5283.8	5484.1	5137.2
47.5°	7306.9	7398.5	7634.3	7992.3	8358.8	7773.6	6650.8	6176.8	6156.1	6325.9	5843.3
50°	7558.6	7639.2	7887.2	8389.3	9277.5	9271.4	7989.8	7433.9	7398.5	7490.1	6935.5
52.5°	7282.5	7358.2	7608.6	8234.1	9709.9	11096.6	9929.8	9011.1	8968.4	8851.1	8240.3
55°	6336.9	6399.2	6769.4	7487.7	9543.8	12313.4	12602.9	10959.7	10793.6	10337.9	9717.3
57.5°	5045.6	5013.8	5243.5	6077.9	8568.9	12721.4	15346.8	13387.2	13090.3	11623.1	10967.1
60°	3496.5	3594.2	3687.0	4236.8	6443.2	12014.0	17053.5	16439.0	16048.0	12887.5	12164.3
62.5°	2570.4	2635.2	2696.3	2950.4	4051.1	9592.7	17355.2	19573.8	19226.9	14230.2	13306.6
65°	2032.9	2037.8	2062.2	2312.6	2669.4	6237.9	15905.1	21341.6	21252.4	15522.7	13769.6
66°	1852.1	1853.3	1891.2	2159.9	2395.7	5079.8	14743.3	21476.0	21524.8	15833.0	13634.0
67.5°	1618.7	1613.8	1668.8	1941.3	2181.9	3662.6	12664.0	20931.1	21220.6	16071.3	13146.5
70°	1254.7	1248.6	1315.8	1628.5	2009.7	2443.4	8417.4	17972.2	18438.9	15583.8	11631.7
72.5°	835.6	840.5	955.4	1285.2	1918.0	2151.4	5063.9	13671.9	14331.6	12869.2	9150.4
75°	487.5	496.0	626.7	955.4	1665.2	2051.2	2866.1	9749.0	10170.5	8886.5	5700.4
77.5°	255.3	259.0	350.6	630.4	1276.7	1904.6	1909.5	6228.1	6426.1	4318.7	2256.5
80°	135.6	131.9	188.1	379.9	878.4	1672.5	1549.1	3297.3	3428.0	1282.8	570.5
82.5°	51.3	56.2	100.2	249.2	519.2	1200.9	1334.1	1457.5	1412.3	282.2	239.5
85°	9.8	12.2	42.8	147.8	261.4	502.1	983.5	714.7	662.2	106.3	138.1
87.5°	1.2	2.4	12.2	35.4	37.9	169.8	290.8	197.9	171.0	39.1	57.4
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°	4289.3	4289.3	4289.3	4289.3	4289.3	4289.3	4289.3	4289.3	4289.3	4289.3	4289.3
2.5°	4291.8	4258.8	4148.8	4040.1	3928.9	3828.8	3760.3	3649.2	3621.1	3580.8	3557.5
5°	4283.2	4206.3	3994.9	3764.0	3549.0	3316.9	3139.7	2968.7	2877.1	2830.6	2813.5
7.5°	4258.8	4136.6	3806.8	3445.1	3100.6	2753.7	2451.9	2222.2	2074.4	1973.0	1904.6
10°	4209.9	4041.3	3588.1	3090.9	2570.4	2112.3	1729.9	1439.1	1214.4	1143.5	1145.9
12.5°	4159.8	3935.0	3343.7	2697.5	2052.4	1474.6	1069.0	839.3	731.8	696.4	689.0
15°	4113.4	3833.6	3104.3	2316.3	1528.3	955.4	689.0	608.4	579.1	573.0	571.7
17.5°	4089.0	3739.6	2849.0	1880.2	1066.5	648.7	552.2	530.2	521.7	515.6	513.1
20°	4068.2	3657.7	2604.6	1472.1	729.3	531.4	494.8	474.0	459.4	453.2	449.6
22.5°	4053.5	3573.4	2351.7	1139.8	558.3	471.6	438.6	411.7	390.9	383.6	378.7
25°	4031.6	3480.6	2096.4	833.2	470.3	419.0	381.2	349.4	322.5	309.1	306.6
27.5°	3999.8	3375.5	1816.6	617.0	420.3	372.6	326.2	287.1	260.2	245.6	246.8
30°	3948.5	3265.6	1536.9	489.9	379.9	325.0	274.9	237.0	211.4	200.4	199.1
32.5°	3887.4	3132.4	1280.3	420.3	343.3	282.2	229.7	196.7	177.1	168.6	167.4
35°	3830.0	2998.0	1018.9	377.5	305.4	243.1	193.0	164.9	150.3	142.9	144.2
37.5°	3798.2	2878.3	794.1	343.3	274.9	208.9	166.1	141.7	128.3	122.2	120.9
40°	3819.0	2780.6	631.6	312.8	240.7	179.6	142.9	122.2	108.7	100.2	100.2
42.5°	3916.7	2737.8	509.4	283.4	208.9	155.2	124.6	105.1	90.4	81.9	83.1
45°	4214.8	2783.0	426.4	256.6	179.6	134.4	107.5	86.7	73.3	67.2	66.0
47.5°	4709.6	2952.8	368.9	228.5	153.9	114.8	90.4	72.1	58.6	53.8	52.5
50°	5574.5	3303.4	326.2	200.4	130.7	97.7	74.5	57.4	46.4	41.5	41.5
52.5°	6764.5	4068.2	295.6	168.6	110.0	83.1	61.1	46.4	36.7	33.0	31.8
55°	8008.1	4874.5	279.8	141.7	91.6	68.4	48.9	36.7	28.1	24.4	23.2
57.5°	9204.2	5507.4	261.4	114.8	73.3	52.5	37.9	28.1	19.5	17.1	15.9
60°	10351.3	6019.2	222.3	91.6	57.4	37.9	28.1	19.5	13.4	11.0	11.0
62.5°	11377.5	6317.3	174.7	73.3	44.0	26.9	18.3	14.7	9.8	7.3	7.3
65°	11497.3	5930.1	131.9	56.2	31.8	17.1	11.0	11.0	7.3	4.9	4.9
66°	11256.6	5601.4	116.1	51.3	28.1	14.7	9.8	8.6	6.1	3.7	3.7
67.5°	10719.1	5040.7	100.2	44.0	23.2	11.0	7.3	7.3	4.9	2.4	2.4
70°	9261.6	4117.1	79.4	33.0	17.1	8.6	4.9	4.9	3.7	2.4	2.4
72.5°	7058.9	3073.8	64.7	24.4	12.2	6.1	3.7	3.7	3.7	2.4	2.4
75°	4257.6	1655.4	50.1	18.3	11.0	4.9	2.4	3.7	4.9	3.7	2.4
77.5°	1568.6	563.2	39.1	14.7	8.6	4.9	2.4	2.4	4.9	3.7	3.7
80°	384.8	146.6	28.1	12.2	8.6	4.9	2.4	2.4	4.9	4.9	4.9
82.5°	178.4	62.3	19.5	11.0	8.6	4.9	2.4	2.4	3.7	4.9	4.9
85°	102.6	29.3	15.9	12.2	8.6	4.9	2.4	2.4	3.7	4.9	4.9
87.5°	41.5	14.7	14.7	12.2	9.8	6.1	2.4	2.4	2.4	3.7	3.7
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)