

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: P455478

Luminaire Tested: **GALN-SA6C-830-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27251 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 321
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

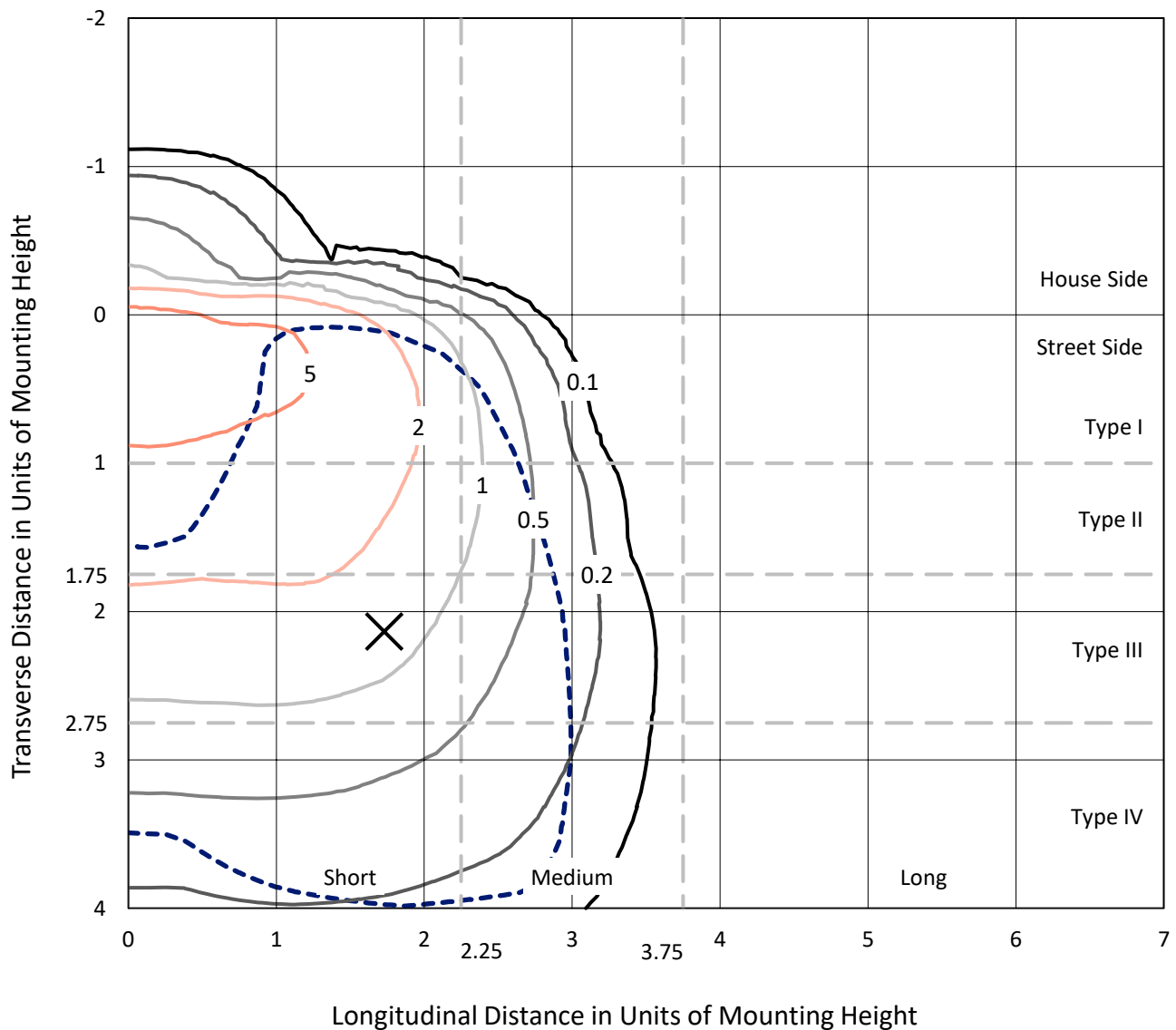


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Iso-Footcandle Lines of Horizontal Illumination

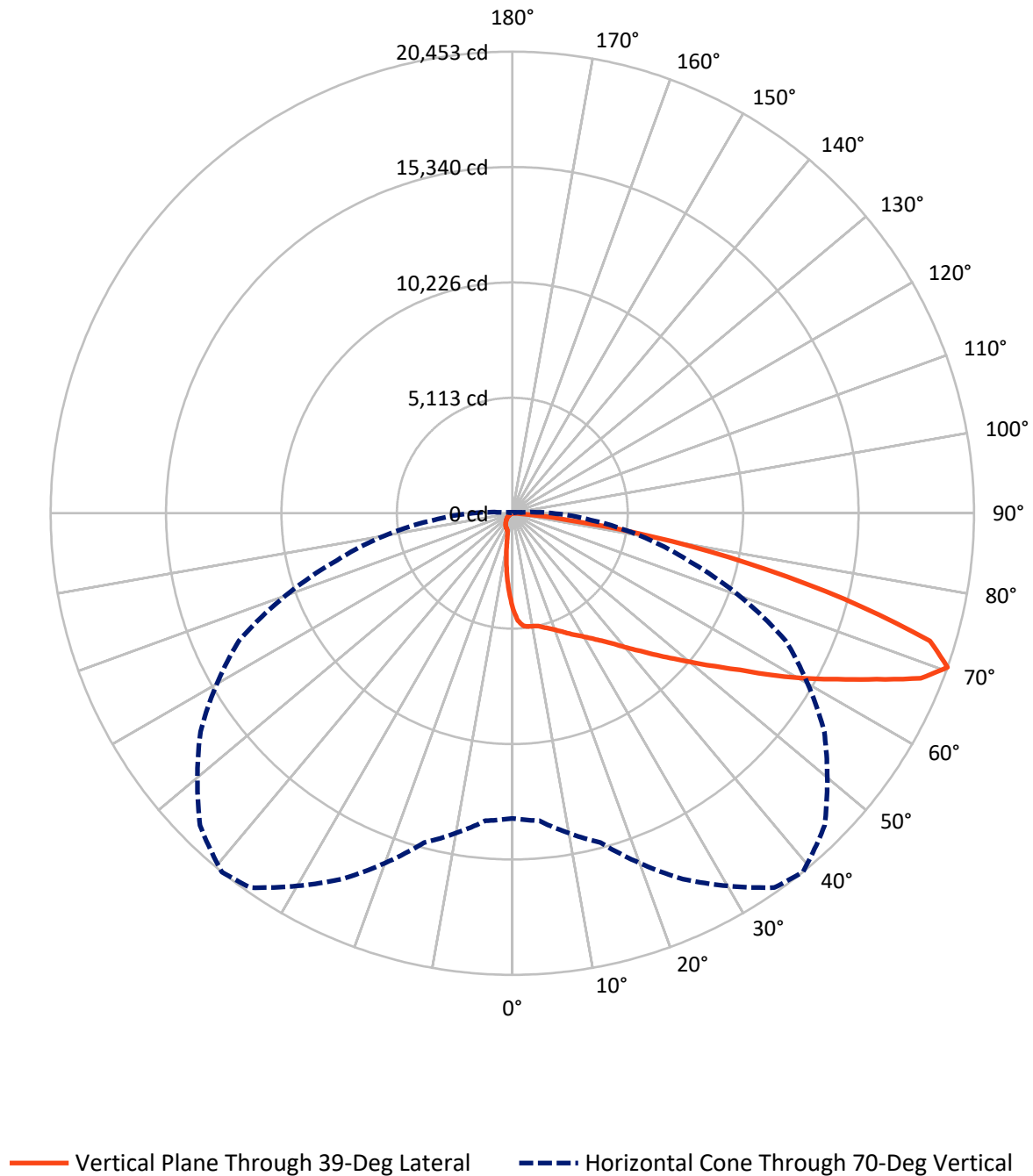
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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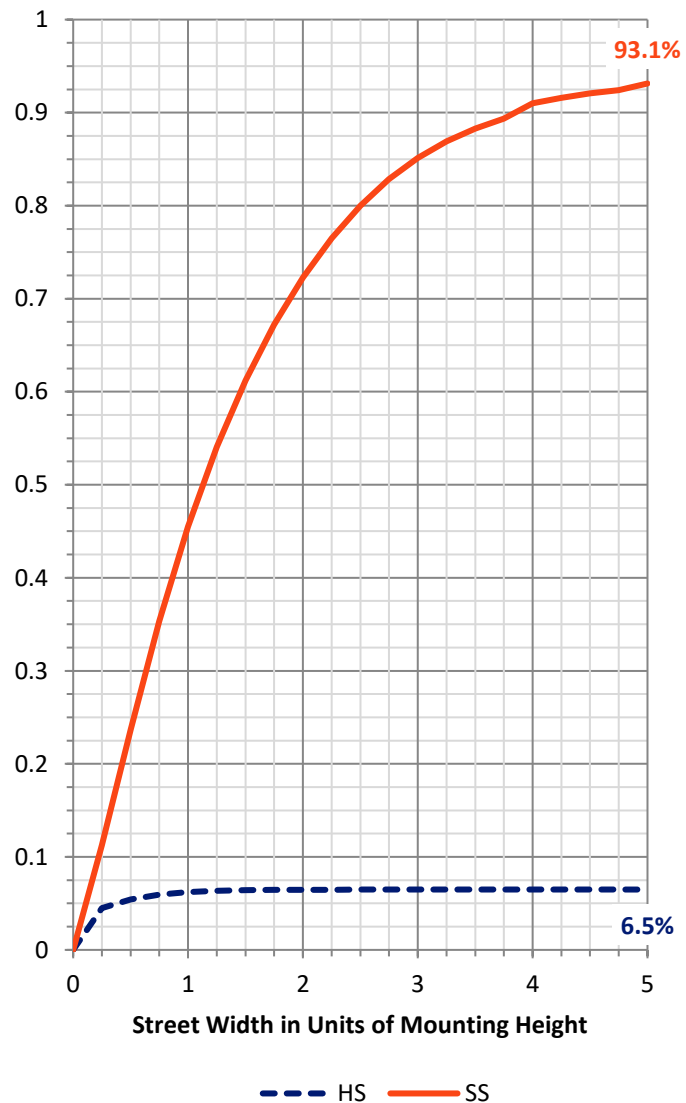
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1776.9	0.0	1776.9
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	25474.1	0.0	25474.1
	% Fixture	93.5	0.0	93.5
Total	Lumens	27251.0	0.0	27251.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.7	1.3
10°-20°	942.5	3.5
20°-30°	1578.9	5.8
30°-40°	2448.7	9.0
40°-50°	3880.5	14.2
50°-60°	5688.2	20.9
60°-70°	7290.9	26.8
70°-80°	4581.4	16.8
80°-90°	477.3	1.8
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°	27251.0	100.0
0°-180°	27251.0	100.0

Coefficient of Utilization



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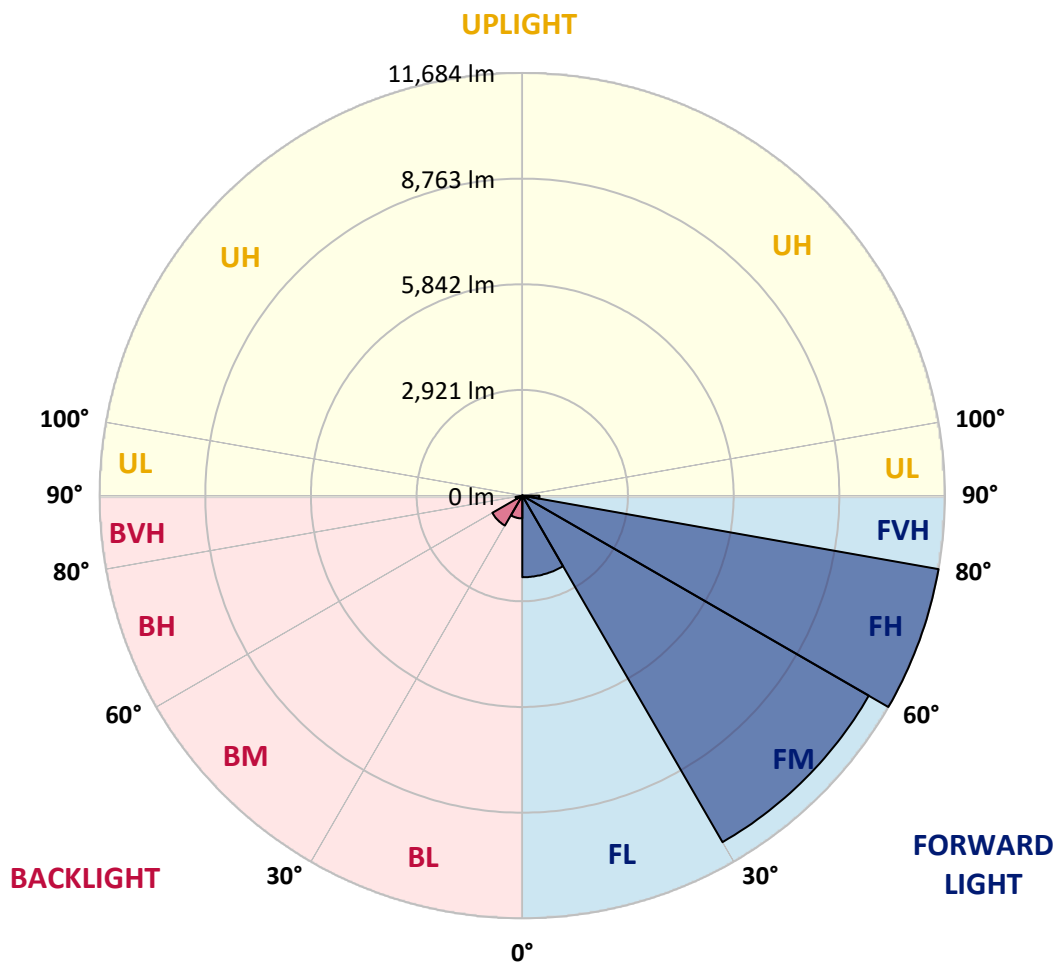
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2254.9	8.3			
FM	(30°-60°)	11061.1	40.6			
FH	(60°-80°)	11684.3	42.9			G4/12000
FVH	(80°-90°)	473.8	1.7			G3/500
BL	(0°-30°)	629.2	2.3	B2/1000		
BM	(30°-60°)	956.3	3.5	B1/1000		
BH	(60°-80°)	187.9	0.7	B1/500		G1/500
BVH	(80°-90°)	3.5	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4252.1	4252.1	4252.1	4252.1	4252.1	4252.1	4252.1	4252.1	4252.1	4252.1	4252.1
2.5°	4913.2	4896.7	4874.7	4849.1	4775.8	4763.0	4719.1	4625.7	4514.0	4422.4	4296.0
5°	5145.7	5154.9	5138.4	5092.6	5039.5	5008.4	4953.4	4808.8	4664.1	4479.2	4272.2
7.5°	5198.8	5217.1	5197.0	5153.1	5101.8	5068.8	5024.9	4900.3	4731.9	4521.3	4237.4
10°	5193.3	5215.3	5202.5	5162.2	5120.1	5089.0	5041.3	4942.5	4807.0	4585.4	4248.4
12.5°	5184.2	5213.5	5211.6	5191.5	5156.7	5132.9	5103.6	5015.7	4889.4	4678.8	4308.9
15°	5158.5	5195.2	5228.1	5244.6	5246.4	5246.4	5209.8	5116.4	4995.6	4801.5	4387.6
17.5°	5169.5	5211.6	5294.1	5341.7	5374.6	5371.0	5332.5	5231.8	5098.1	4927.8	4470.0
20°	5237.3	5294.1	5409.4	5504.6	5537.6	5526.6	5475.3	5358.1	5206.2	5035.9	4550.6
22.5°	5403.9	5455.2	5599.9	5711.6	5735.4	5706.1	5632.8	5473.5	5336.2	5153.1	4647.6
25°	5653.0	5713.4	5847.1	5931.3	5931.3	5914.8	5812.3	5625.5	5482.7	5316.0	4774.0
27.5°	5955.1	6006.4	6138.2	6213.3	6169.4	6121.8	6019.2	5794.0	5656.6	5521.1	4926.0
30°	6260.9	6293.9	6433.1	6466.0	6420.3	6359.8	6250.0	6024.7	5903.9	5799.5	5145.7
32.5°	6550.3	6621.7	6737.1	6729.7	6667.5	6638.2	6537.5	6297.6	6229.8	6218.8	5453.4
35°	6839.6	6894.5	6997.1	7022.7	6967.8	6962.3	6889.0	6711.4	6713.2	6784.7	5933.1
37.5°	7088.6	7138.1	7259.0	7315.7	7326.7	7354.2	7324.9	7207.7	7374.3	7570.3	6568.6
40°	7297.4	7367.0	7520.8	7619.7	7733.2	7834.0	7839.4	7865.1	8200.2	8537.1	7398.1
42.5°	7460.4	7557.4	7780.8	7964.0	8224.0	8352.2	8454.7	8595.7	9159.8	9663.3	8376.0
45°	7672.8	7784.5	8062.9	8350.4	8756.9	8967.5	9110.3	9487.5	10287.8	10974.5	9379.5
47.5°	8024.4	8083.0	8366.8	8786.2	9320.9	9621.2	9899.6	10470.9	11498.2	12113.5	10214.5
50°	8476.7	8515.2	8729.4	9311.7	10003.9	10399.5	10906.7	11578.8	12754.4	13058.4	10687.0
52.5°	8976.6	8989.5	9150.6	9890.4	10769.4	11267.5	11835.2	12664.7	13778.1	13732.3	11000.1
55°	9557.1	9538.8	9676.2	10518.5	11675.9	12245.4	12906.4	13776.3	14666.2	14210.3	11179.6
57.5°	10221.9	10172.4	10306.1	11351.7	12836.8	13518.1	14190.1	14735.8	15354.8	14611.3	11265.7
60°	10917.7	10818.8	10978.2	12287.5	14204.8	14851.2	15409.7	15556.2	16079.9	14929.9	11117.3
62.5°	11472.6	11474.4	11771.1	13283.7	15611.1	16177.0	16473.6	16605.5	16704.4	14860.3	10337.2
65°	12338.8	12368.1	12842.3	14666.2	17239.1	17729.9	17933.1	17504.6	16731.8	13996.0	9165.3
67.5°	13232.4	13325.8	14193.8	16570.7	19119.8	19515.3	19253.4	17678.6	15984.7	12023.8	6949.5
70°	13523.6	13677.4	15107.6	17881.9	20247.8	20452.9	19566.6	16867.4	13362.4	8039.1	3497.6
72.5°	12391.9	12640.9	14582.0	17403.9	19528.1	19350.5	17506.5	14146.2	8495.0	3052.6	1067.6
75°	8738.6	8848.5	12119.0	14437.3	15706.4	15202.8	13316.6	9119.5	3494.0	857.0	366.2
77.5°	4512.1	4459.0	7207.7	9579.1	11201.6	10679.7	8720.3	4720.9	1324.0	357.1	227.1
80°	2333.0	2371.4	3118.6	5019.4	6837.8	6292.1	4649.5	2188.3	705.0	197.8	174.0
82.5°	1307.5	1226.9	1792.8	2192.0	3197.3	2506.9	1783.6	1549.2	307.6	119.0	164.8
85°	238.1	249.0	983.4	1184.8	1109.7	705.0	575.0	1034.6	89.7	65.9	115.4
87.5°	3.7	3.7	190.4	340.6	216.1	98.9	181.3	148.3	18.3	25.6	20.1
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°	4252.1	4252.1	4252.1	4252.1	4252.1	4252.1	4252.1	4252.1	4252.1	4252.1	4252.1
2.5°	4231.9	4162.4	4032.3	3904.2	3741.2	3607.5	3517.8	3424.4	3329.2	3336.5	3358.5
5°	4158.7	4037.8	3781.5	3510.4	3250.4	3016.0	2785.3	2578.4	2494.1	2417.2	2420.9
7.5°	4085.4	3915.1	3539.7	3114.9	2721.2	2322.0	2032.7	1794.6	1668.2	1573.0	1545.5
10°	4052.5	3827.2	3318.2	2734.0	2175.5	1739.7	1367.9	1173.8	1023.7	976.0	988.9
12.5°	4067.1	3783.3	3118.6	2389.7	1725.0	1212.3	952.2	853.3	820.4	814.9	811.2
15°	4094.6	3752.2	2922.6	2008.8	1267.2	901.0	800.2	781.9	778.3	774.6	776.4
17.5°	4131.2	3724.7	2713.9	1651.8	972.4	787.4	758.1	749.0	747.1	747.1	747.1
20°	4167.9	3693.6	2481.3	1333.1	811.2	743.5	725.2	719.7	717.8	717.8	716.0
22.5°	4210.0	3666.1	2245.1	1047.5	747.1	712.3	695.9	692.2	690.4	688.5	688.5
25°	4270.4	3631.3	1994.2	857.0	706.9	683.0	666.6	662.9	661.1	653.7	655.6
27.5°	4351.0	3605.7	1736.0	739.8	670.2	646.4	635.4	629.9	626.3	620.8	622.6
30°	4460.8	3583.7	1461.3	675.7	628.1	608.0	597.0	593.3	589.7	584.2	584.2
32.5°	4651.3	3592.9	1172.0	624.4	589.7	565.8	554.9	551.2	547.5	542.0	542.0
35°	4937.0	3646.0	937.6	580.5	543.9	520.1	509.1	509.1	503.6	496.3	494.4
37.5°	5403.9	3781.5	752.6	538.4	499.9	477.9	465.1	461.5	456.0	445.0	443.2
40°	5955.1	3992.1	633.6	496.3	459.6	437.7	426.7	415.7	401.0	390.0	388.2
42.5°	6647.3	4208.1	549.4	454.1	421.2	401.0	388.2	369.9	347.9	333.3	331.5
45°	7368.8	4405.9	492.6	415.7	384.6	368.1	353.4	324.1	296.7	278.3	276.5
47.5°	7907.2	4442.5	446.8	379.1	353.4	336.9	316.8	280.2	243.6	227.1	221.6
50°	8161.7	4264.9	399.2	342.4	322.3	304.0	278.3	236.2	195.9	175.8	172.1
52.5°	8251.5	3957.3	360.8	309.5	291.2	269.2	238.1	190.4	153.8	133.7	131.8
55°	8214.8	3569.0	326.0	278.3	254.5	228.9	197.8	152.0	113.5	97.1	93.4
57.5°	8022.6	3074.6	291.2	247.2	217.9	192.3	157.5	113.5	76.9	62.3	60.4
60°	7504.3	2400.7	256.4	212.4	185.0	157.5	124.5	80.6	47.6	34.8	34.8
62.5°	6629.0	1781.8	223.4	177.6	155.7	126.4	87.9	51.3	25.6	18.3	16.5
65°	5539.4	1314.8	186.8	150.2	130.0	98.9	62.3	31.1	12.8	5.5	3.7
67.5°	3865.7	811.2	155.7	122.7	106.2	71.4	38.5	12.8	5.5	0.0	0.0
70°	1756.1	386.4	119.0	93.4	80.6	51.3	20.1	7.3	3.7	0.0	0.0
72.5°	545.7	203.3	84.2	67.8	54.9	33.0	11.0	5.5	3.7	0.0	0.0
75°	252.7	130.0	53.1	36.6	31.1	16.5	7.3	3.7	1.8	0.0	0.0
77.5°	188.6	100.7	31.1	20.1	16.5	11.0	5.5	3.7	1.8	0.0	0.0
80°	164.8	51.3	18.3	12.8	9.2	7.3	3.7	1.8	0.0	0.0	0.0
82.5°	148.3	25.6	11.0	7.3	5.5	3.7	1.8	1.8	0.0	0.0	0.0
85°	80.6	14.6	7.3	5.5	3.7	1.8	1.8	0.0	0.0	0.0	0.0
87.5°	14.6	7.3	5.5	3.7	3.7	1.8	1.8	1.8	0.0	0.0	0.0
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)