

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: P456866

Luminaire Tested: **GALN-SA8A-830-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456866
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-SA8A-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA 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: 24016 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 244
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

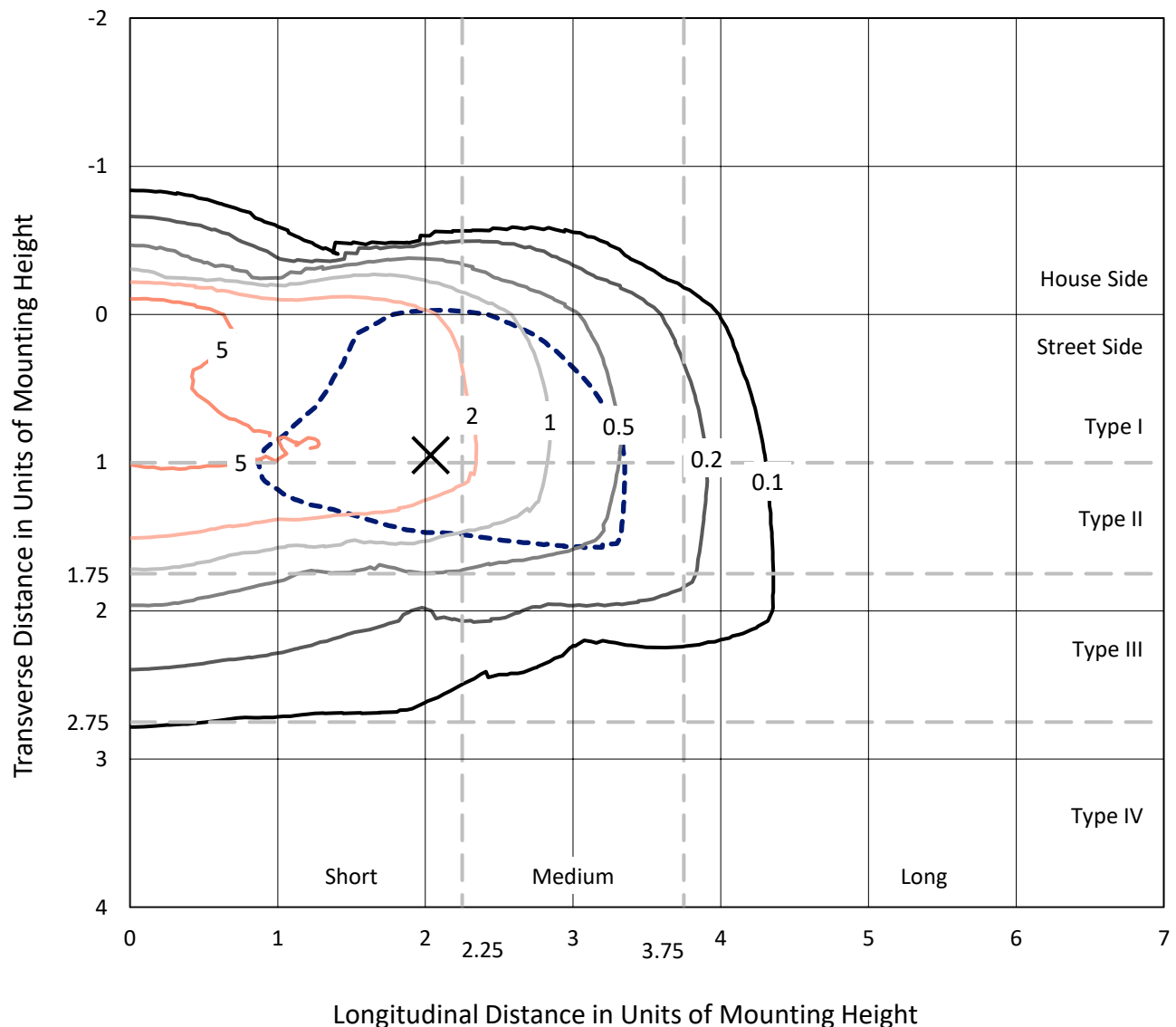


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Iso-Footcandle Lines of Horizontal Illumination

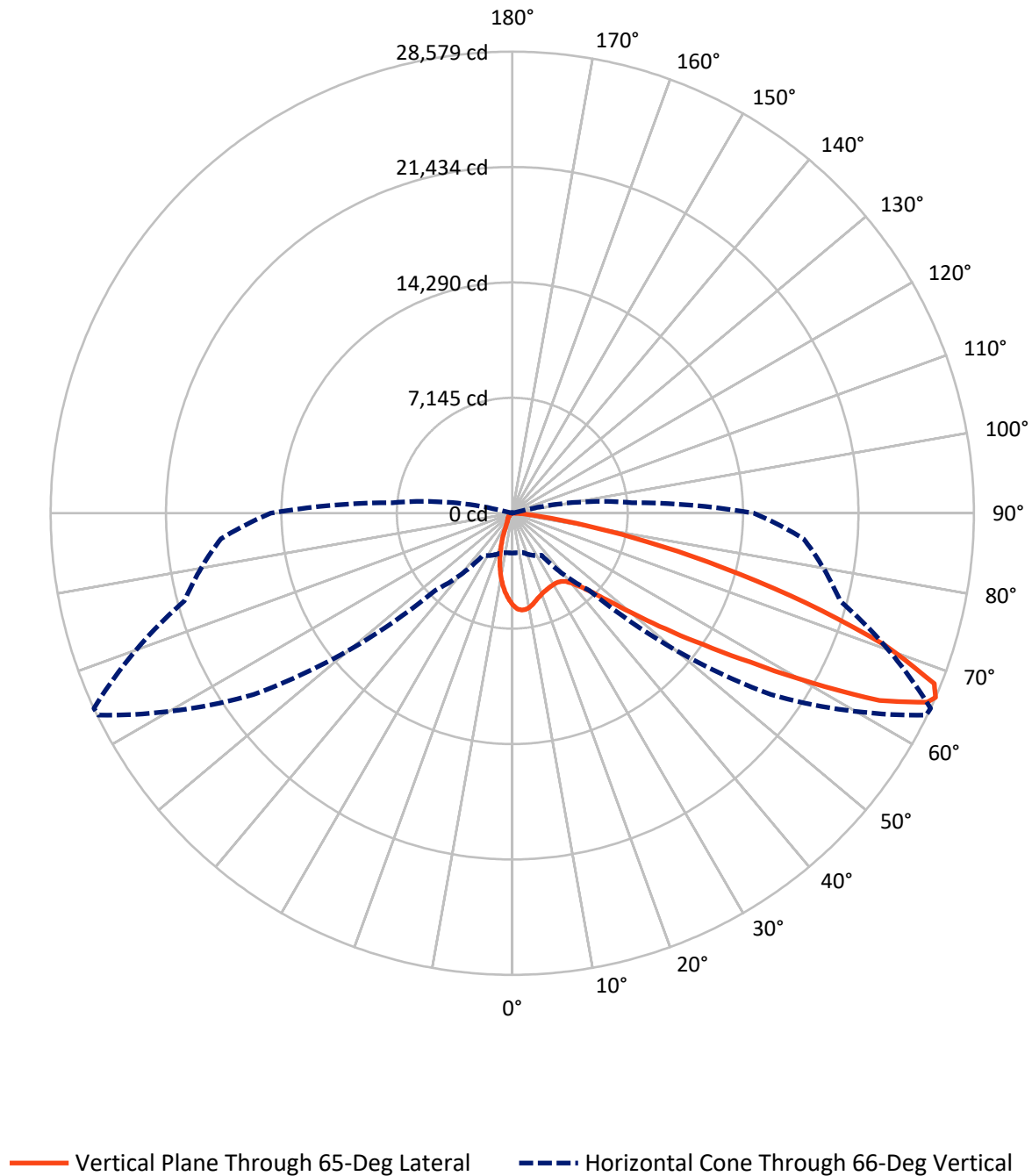
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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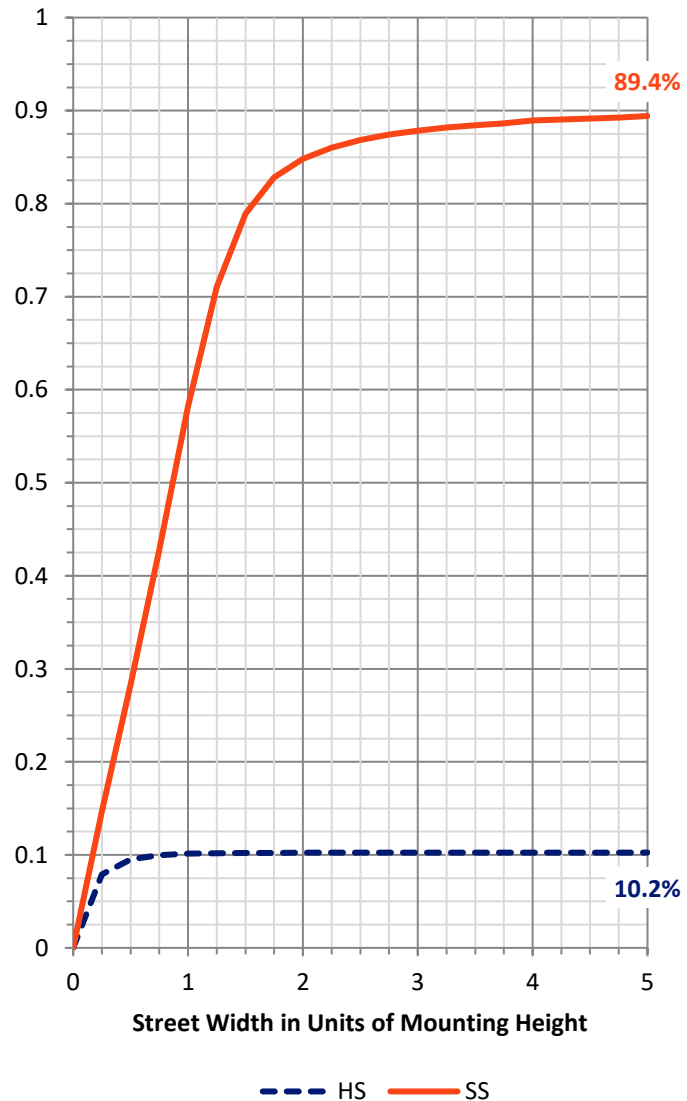
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2483.6	0.0	2483.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	21532.4	0.0	21532.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	24016.0	0.0	24016.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.8	1.9
10°-20°	1014.8	4.2
20°-30°	1453.8	6.1
30°-40°	2123.4	8.8
40°-50°	3560.5	14.8
50°-60°	5941.9	24.7
60°-70°	6307.1	26.3
70°-80°	2856.5	11.9
80°-90°	292.3	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°	24016.0	100.0
0°-180°	24016.0	100.0

Coefficient of Utilization



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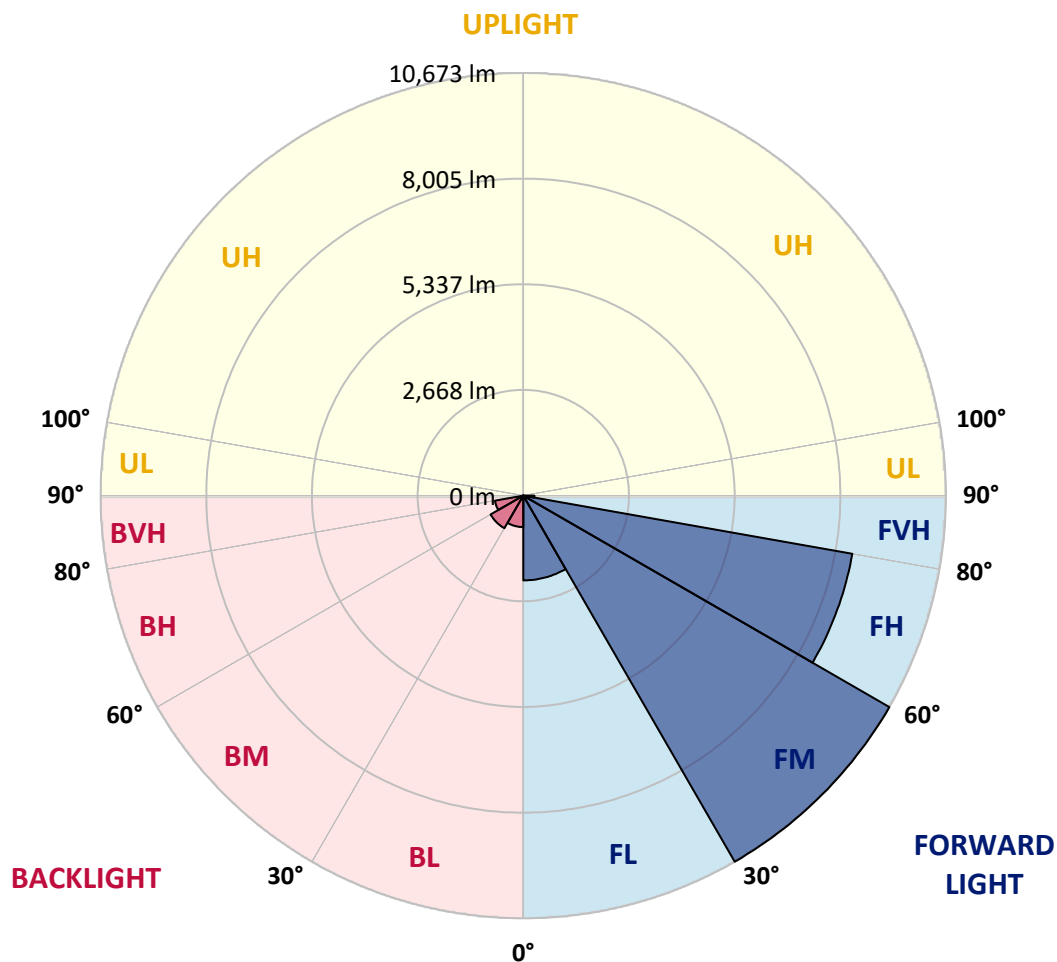
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2139.9	8.9			
FM	(30°-60°)	10673.3	44.4			
FH	(60°-80°)	8436.3	35.1			G4/12000
FVH	(80°-90°)	283.0	1.2			G3/500
BL	(0°-30°)	794.5	3.3	B2/1000		
BM	(30°-60°)	952.5	4.0	B1/1000		
BH	(60°-80°)	727.3	3.0	B2/1000		G2/1000
BVH	(80°-90°)	9.3	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5695.1	5695.1	5695.1	5695.1	5695.1	5695.1	5695.1	5695.1	5695.1	5695.1	5695.1
2.5°	6001.7	6008.1	6016.2	6027.6	6035.7	6011.4	5977.3	5938.4	5930.3	5847.6	5747.0
5°	5680.5	5690.2	5761.6	5800.5	5888.1	5967.6	6017.9	6024.4	6021.1	5943.3	5782.7
7.5°	5223.1	5250.6	5320.4	5388.5	5552.3	5703.2	5881.6	6006.5	6014.6	5993.5	5794.0
10°	4851.6	4869.4	4905.1	5039.8	5176.0	5406.4	5656.1	5891.3	5910.8	5995.2	5784.3
12.5°	4561.3	4587.2	4631.0	4734.8	4898.6	5116.0	5399.9	5716.2	5756.7	5964.3	5756.7
15°	4358.5	4371.5	4415.3	4517.5	4676.4	4877.6	5164.7	5532.9	5568.6	5923.8	5751.9
17.5°	4262.8	4277.4	4308.2	4389.3	4520.7	4707.2	4987.9	5385.3	5430.7	5897.8	5769.7
20°	4288.7	4301.7	4303.3	4345.5	4434.7	4592.1	4858.1	5247.4	5305.8	5881.6	5798.9
22.5°	4436.4	4438.0	4418.5	4399.0	4429.9	4543.4	4778.6	5159.8	5219.8	5878.4	5833.0
25°	4657.0	4661.8	4629.4	4561.3	4499.6	4558.0	4760.8	5103.0	5156.6	5870.3	5854.0
27.5°	4961.9	4960.3	4950.6	4837.0	4661.8	4622.9	4775.4	5072.2	5117.6	5847.6	5862.2
30°	5388.5	5375.5	5354.4	5226.3	4958.7	4780.2	4837.0	5052.7	5094.9	5815.1	5841.1
32.5°	5808.6	5857.3	5854.0	5732.4	5398.2	5060.9	4965.1	5078.7	5109.5	5794.0	5810.2
35°	6298.5	6296.9	6421.8	6376.3	5985.4	5419.3	5184.1	5164.7	5189.0	5808.6	5795.6
37.5°	6752.7	6794.8	6989.5	7036.5	6679.7	5925.4	5493.9	5349.6	5357.7	5907.6	5831.3
40°	7318.8	7399.9	7690.2	7847.6	7532.9	6676.4	5951.4	5688.6	5690.2	6150.9	5966.0
42.5°	8048.7	8176.8	8447.7	8710.5	8541.8	7565.3	6637.5	6225.5	6222.3	6579.1	6274.2
45°	8936.0	9025.2	9333.4	9750.2	9643.2	8806.2	7636.7	7057.6	7015.4	7281.5	6820.8
47.5°	9701.6	9823.2	10136.3	10611.6	11098.2	10321.2	8830.5	8201.2	8173.6	8399.1	7758.3
50°	10035.7	10142.8	10472.1	11138.7	12318.0	12309.9	10608.3	9870.3	9823.2	9944.9	9208.5
52.5°	9669.1	9769.7	10102.2	10932.7	12892.2	14733.2	13184.2	11964.4	11907.6	11751.9	10940.8
55°	8413.7	8496.4	8987.9	9941.7	12671.6	16348.8	16733.2	14551.6	14331.0	13725.9	12901.9
57.5°	6699.1	6657.0	6961.9	8069.8	11377.2	16890.6	20376.4	17774.6	17380.5	15432.4	14561.3
60°	4642.4	4772.1	4895.4	5625.3	8554.8	15951.4	22642.4	21826.5	21307.5	17111.2	16150.9
62.5°	3412.8	3498.8	3579.9	3917.3	5378.8	12736.5	23043.1	25988.8	25528.1	18893.8	17667.6
65°	2699.1	2705.6	2738.1	3070.6	3544.2	8282.3	21117.7	28335.9	28217.5	20610.0	18282.3
66°	2459.1	2460.7	2511.0	2867.8	3180.9	6744.6	19575.1	28514.3	28579.2	21022.0	18102.3
67.5°	2149.2	2142.8	2215.7	2577.5	2897.0	4863.0	16814.4	27790.9	28175.3	21338.3	17455.1
70°	1665.9	1657.8	1747.0	2162.2	2668.3	3244.1	11176.0	23862.2	24481.9	20691.1	15443.7
72.5°	1109.5	1116.0	1268.5	1706.4	2546.6	2856.5	6723.5	18152.6	19028.5	17086.9	12149.3
75°	647.2	658.6	832.1	1268.5	2210.9	2723.5	3805.4	12944.1	13503.7	11798.9	7568.6
77.5°	339.0	343.9	465.5	837.0	1695.1	2528.8	2535.3	8269.3	8532.1	5734.0	2996.0
80°	180.0	175.2	249.8	504.5	1166.3	2220.6	2056.8	4378.0	4551.5	1703.2	757.5
82.5°	68.1	74.6	133.0	330.9	689.4	1594.5	1771.3	1935.1	1875.1	374.7	317.9
85°	13.0	16.2	56.8	196.3	347.1	666.7	1305.8	948.9	879.2	141.1	183.3
87.5°	1.6	3.2	16.2	47.0	50.3	225.5	386.1	262.8	227.1	51.9	76.2
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°	5695.1	5695.1	5695.1	5695.1	5695.1	5695.1	5695.1	5695.1	5695.1	5695.1	5695.1
2.5°	5698.3	5654.5	5508.5	5364.2	5216.6	5083.6	4992.7	4845.1	4807.8	4754.3	4723.5
5°	5687.0	5584.8	5304.2	4997.6	4712.1	4403.9	4168.7	3941.6	3820.0	3758.3	3735.6
7.5°	5654.5	5492.3	5054.4	4574.2	4116.8	3656.1	3255.5	2950.5	2754.3	2619.6	2528.8
10°	5589.6	5365.8	4764.0	4103.8	3412.8	2804.6	2296.8	1910.8	1612.3	1518.3	1521.5
12.5°	5523.1	5224.7	4439.6	3581.5	2725.1	1957.8	1419.3	1114.4	971.6	924.6	914.8
15°	5461.5	5090.0	4121.7	3075.4	2029.2	1268.5	914.8	807.8	768.9	760.7	759.1
17.5°	5429.1	4965.1	3782.7	2496.4	1416.1	861.3	733.2	704.0	692.6	684.5	681.3
20°	5401.5	4856.5	3458.2	1954.6	968.4	705.6	656.9	629.4	609.9	601.8	596.9
22.5°	5382.0	4744.5	3122.5	1513.4	741.3	626.1	582.3	546.6	519.1	509.3	502.8
25°	5352.8	4621.3	2783.5	1106.3	624.5	556.4	506.1	463.9	428.2	410.4	407.1
27.5°	5310.6	4481.8	2412.0	819.1	558.0	494.7	433.1	381.2	345.5	326.0	327.7
30°	5242.5	4335.8	2040.6	650.4	504.5	431.5	365.0	314.7	280.6	266.0	264.4
32.5°	5161.4	4159.0	1699.9	558.0	455.8	374.7	304.9	261.2	235.2	223.8	222.2
35°	5085.2	3980.6	1352.8	501.2	405.5	322.8	256.3	219.0	199.5	189.8	191.4
37.5°	5043.0	3821.6	1054.3	455.8	365.0	277.4	220.6	188.2	170.3	162.2	160.6
40°	5070.6	3691.8	838.6	415.2	319.5	238.4	189.8	162.2	144.4	133.0	133.0
42.5°	5200.3	3635.1	676.4	376.3	277.4	206.0	165.5	139.5	120.0	108.7	110.3
45°	5596.1	3695.1	566.1	340.6	238.4	178.4	142.7	115.2	97.3	89.2	87.6
47.5°	6253.1	3920.5	489.9	303.3	204.4	152.5	120.0	95.7	77.9	71.4	69.7
50°	7401.5	4386.1	433.1	266.0	173.6	129.8	98.9	76.2	61.6	55.2	55.2
52.5°	8981.4	5401.5	392.5	223.8	146.0	110.3	81.1	61.6	48.7	43.8	42.2
55°	10632.7	6472.0	371.5	188.2	121.7	90.8	64.9	48.7	37.3	32.4	30.8
57.5°	12220.7	7312.3	347.1	152.5	97.3	69.7	50.3	37.3	26.0	22.7	21.1
60°	13743.8	7991.9	295.2	121.7	76.2	50.3	37.3	26.0	17.8	14.6	14.6
62.5°	15106.3	8387.7	232.0	97.3	58.4	35.7	24.3	19.5	13.0	9.7	9.7
65°	15265.3	7873.5	175.2	74.6	42.2	22.7	14.6	14.6	9.7	6.5	6.5
66°	14945.7	7437.2	154.1	68.1	37.3	19.5	13.0	11.4	8.1	4.9	4.9
67.5°	14232.0	6692.7	133.0	58.4	30.8	14.6	9.7	9.7	6.5	3.2	3.2
70°	12296.9	5466.4	105.4	43.8	22.7	11.4	6.5	6.5	4.9	3.2	3.2
72.5°	9372.3	4081.1	86.0	32.4	16.2	8.1	4.9	4.9	4.9	3.2	3.2
75°	5652.9	2197.9	66.5	24.3	14.6	6.5	3.2	4.9	6.5	4.9	3.2
77.5°	2082.7	747.8	51.9	19.5	11.4	6.5	3.2	3.2	6.5	4.9	4.9
80°	511.0	194.6	37.3	16.2	11.4	6.5	3.2	3.2	6.5	6.5	6.5
82.5°	236.8	82.7	26.0	14.6	11.4	6.5	3.2	3.2	4.9	6.5	6.5
85°	136.3	38.9	21.1	16.2	11.4	6.5	3.2	3.2	4.9	6.5	6.5
87.5°	55.2	19.5	19.5	16.2	13.0	8.1	3.2	3.2	3.2	4.9	4.9
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)