

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: P457115

Luminaire Tested: **GALN-SA8B-830-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457115
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28587 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 325
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

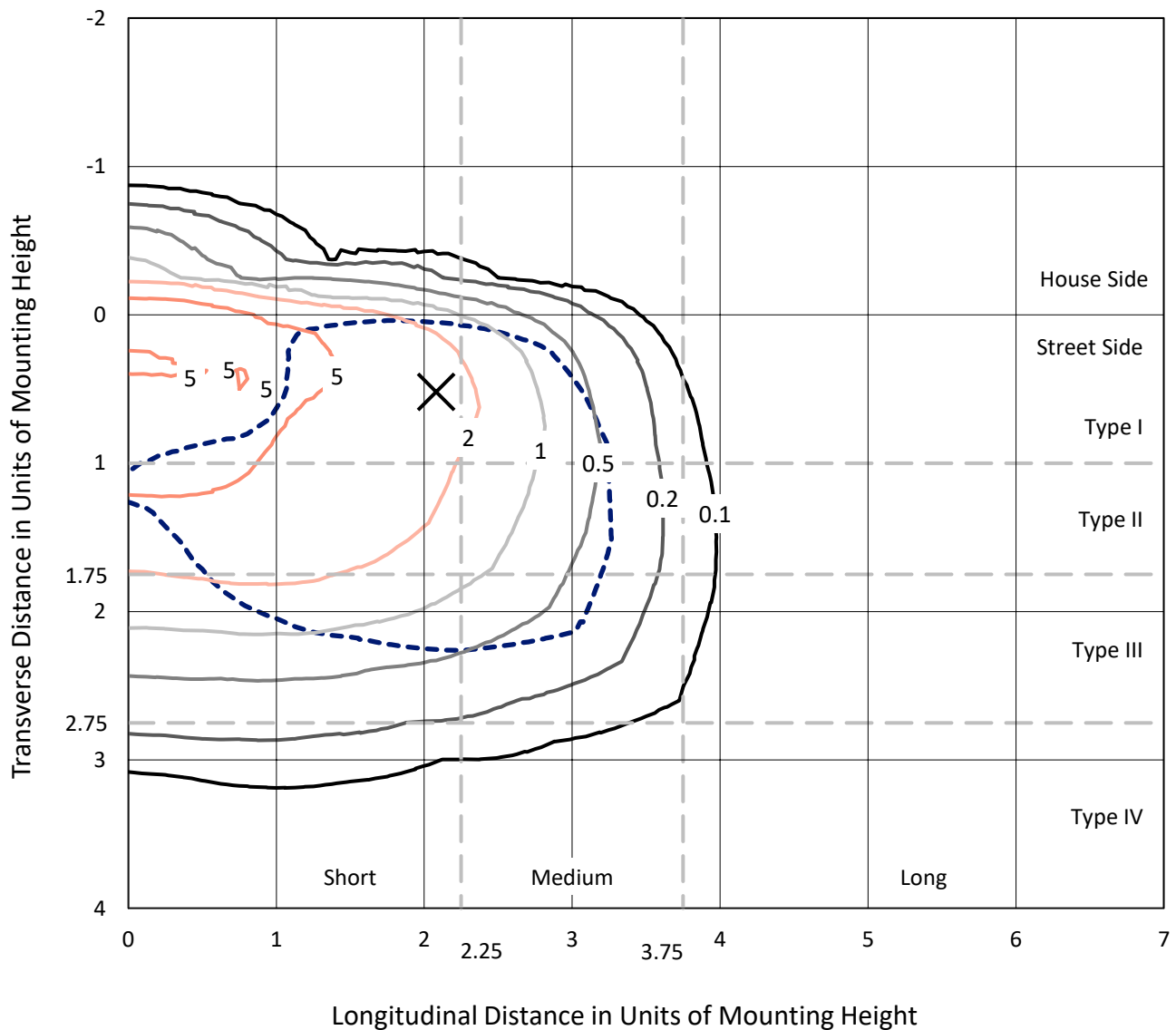


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

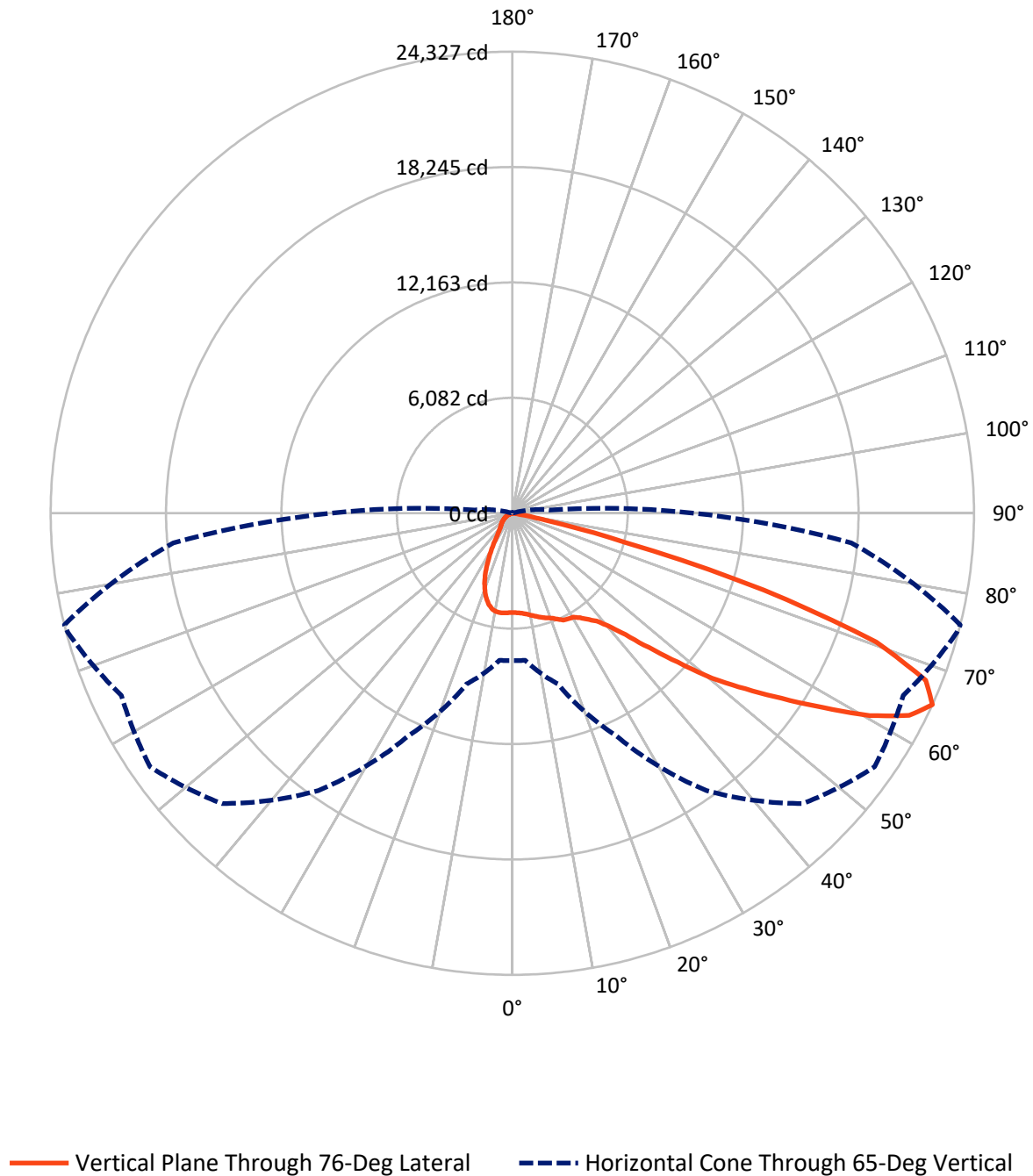


Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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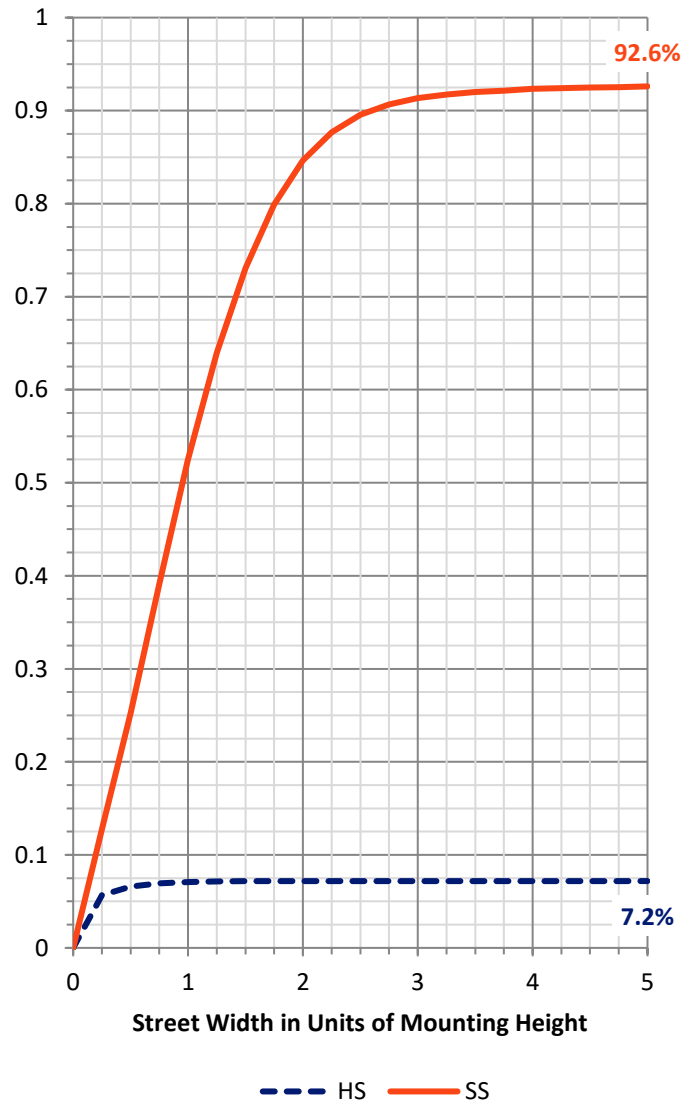
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2064.5	0.0	2064.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	26522.4	0.0	26522.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	28587.0	0.0	28587.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.8	1.5
10°-20°	959.2	3.4
20°-30°	1545.6	5.4
30°-40°	2687.5	9.4
40°-50°	4440.9	15.5
50°-60°	6860.2	24.0
60°-70°	8377.3	29.3
70°-80°	3179.4	11.1
80°-90°	106.1	0.4
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°	28587.0	100.0
0°-180°	28587.0	100.0

Coefficient of Utilization



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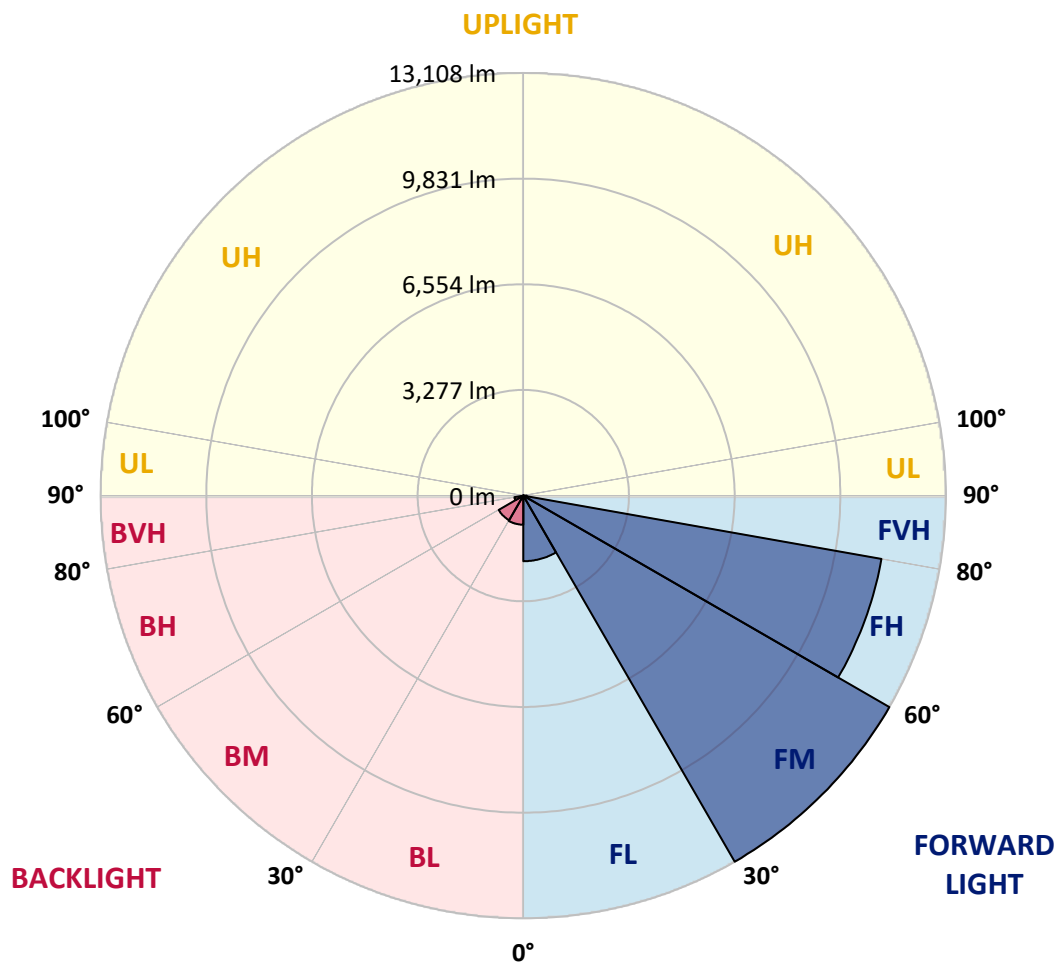
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2033.6	7.1			
FM	(30°-60°)	13107.6	45.9			
FH	(60°-80°)	11276.6	39.4			G4/12000
FVH	(80°-90°)	104.6	0.4			G2/225
BL	(0°-30°)	902.0	3.2	B2/1000		
BM	(30°-60°)	881.0	3.1	B1/1000		
BH	(60°-80°)	280.1	1.0	B1/500		G1/500
BVH	(80°-90°)	1.5	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5229.5	5229.5	5229.5	5229.5	5229.5	5229.5	5229.5	5229.5	5229.5	5229.5	5229.5
2.5°	4997.4	4999.4	5011.5	5041.8	5088.2	5126.5	5158.8	5211.3	5247.6	5251.7	5263.8
5°	4652.2	4628.0	4652.2	4730.9	4801.6	4908.6	5039.8	5170.9	5288.0	5296.1	5352.6
7.5°	4264.7	4284.9	4323.2	4404.0	4537.2	4700.7	4890.4	5124.5	5346.5	5366.7	5477.7
10°	3871.1	3915.5	3978.1	4101.2	4286.9	4498.8	4757.2	5092.2	5439.4	5467.6	5659.4
12.5°	3507.8	3528.0	3604.7	3770.2	4000.3	4299.0	4656.3	5074.1	5542.3	5576.6	5853.1
15°	3229.3	3255.6	3322.2	3471.5	3727.8	4111.3	4573.5	5068.0	5643.2	5691.7	6046.9
17.5°	3176.8	3193.0	3221.2	3322.2	3546.2	3962.0	4498.8	5066.0	5740.1	5798.6	6226.5
20°	3392.8	3378.7	3350.4	3340.3	3463.4	3846.9	4444.3	5082.1	5833.0	5899.6	6416.2
22.5°	3933.7	3951.9	3786.4	3590.6	3550.2	3828.8	4436.3	5158.8	5980.3	6059.0	6628.2
25°	5082.1	4942.9	4684.5	4216.3	3863.1	3939.8	4527.1	5340.5	6151.8	6238.6	6819.9
27.5°	6351.7	6309.3	5907.6	5136.6	4478.7	4173.9	4688.6	5479.7	6208.4	6297.2	6928.9
30°	7599.0	7649.4	7189.3	6337.5	5372.8	4607.8	4839.9	5532.2	6258.8	6351.7	7068.2
32.5°	8755.5	8816.0	8412.4	7568.7	6426.3	5358.6	5100.3	5736.1	6470.7	6565.6	7300.3
35°	9665.7	9673.8	9369.1	8697.0	7576.8	6270.9	5663.4	6093.3	6757.3	6868.4	7546.5
37.5°	10501.3	10489.2	10132.0	9552.7	8535.5	7177.2	6371.8	6505.1	7084.3	7199.4	7901.7
40°	11121.0	11129.0	11014.0	10469.0	9429.6	8014.8	6932.9	6890.6	7633.3	7812.9	8418.4
42.5°	11534.7	11609.4	11665.9	11389.4	10553.8	9046.1	7794.8	7716.0	8585.9	8735.3	9149.1
45°	11869.8	12003.0	12285.5	12271.4	11633.6	10311.6	8977.5	8816.0	9936.2	10095.7	10079.5
47.5°	12114.0	12249.2	12717.5	13000.0	12648.8	11538.8	10465.0	10325.7	11548.8	11722.4	11106.8
50°	12239.1	12400.6	12998.0	13545.0	13442.0	12721.5	12160.4	12168.5	13496.5	13664.0	12297.6
52.5°	11946.5	12156.4	13147.4	14132.3	14332.1	13853.8	13748.8	14015.2	15230.3	15373.6	13373.4
55°	11012.0	11276.4	12943.5	14632.8	15363.5	15189.9	15553.2	15958.9	17125.5	17218.3	14477.4
57.5°	10420.6	10701.1	12342.0	15058.7	16602.7	16869.1	17444.4	17741.1	19081.2	19317.4	15744.9
60°	9922.1	10142.1	11847.6	15149.5	17862.2	18923.8	19482.9	19789.7	21495.1	21648.5	17139.6
62.5°	9092.5	9344.8	11012.0	14515.8	18495.9	20568.7	21727.2	21590.0	23362.1	23469.1	17995.4
65°	7758.4	7780.6	9316.6	12923.3	17842.0	21636.4	23303.6	22728.3	24254.2	24326.8	17928.8
67.5°	5790.6	6004.5	7167.1	10158.2	15070.8	20724.1	23814.2	22758.6	23691.1	23489.2	16505.8
70°	3729.9	3893.3	4858.1	7043.9	10866.7	17295.0	22120.8	21198.4	20792.8	20344.7	13510.7
72.5°	1721.6	1931.5	2886.2	4024.5	6444.5	12319.8	17957.0	17222.3	14965.9	13859.8	8588.0
75°	750.8	803.3	1424.9	2123.3	3021.4	6515.1	11839.5	10691.1	6759.4	6174.0	3437.2
77.5°	458.2	492.5	746.8	1138.3	1186.8	2482.5	6377.9	4664.3	2089.0	1842.7	932.5
80°	310.8	349.2	542.9	595.4	405.7	692.3	2393.7	1245.3	421.8	403.7	199.8
82.5°	151.4	191.7	401.6	333.0	175.6	222.0	696.3	266.4	123.1	115.0	70.6
85°	22.2	38.3	226.1	218.0	78.7	52.5	123.1	66.6	42.4	40.4	32.3
87.5°	0.0	0.0	76.7	34.3	8.1	8.1	14.1	14.1	16.1	14.1	16.1
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°	5229.5	5229.5	5229.5	5229.5	5229.5	5229.5	5229.5	5229.5	5229.5	5229.5	5229.5
2.5°	5269.8	5279.9	5241.6	5187.1	5128.6	5070.0	4987.3	4912.6	4868.2	4894.4	4829.8
5°	5364.7	5356.6	5255.7	5090.2	4870.2	4605.8	4343.4	4119.4	4046.7	3937.7	3925.6
7.5°	5495.9	5473.7	5259.7	4880.3	4383.8	3887.3	3402.9	3082.0	2898.3	2742.9	2746.9
10°	5679.6	5615.0	5213.3	4511.0	3693.5	2944.7	2327.1	1903.3	1719.6	1661.1	1614.7
12.5°	5869.3	5744.1	5084.2	4012.4	2876.1	2012.3	1414.8	1156.5	1043.5	1007.1	1003.1
15°	6038.8	5841.0	4858.1	3413.0	2091.0	1285.7	964.8	880.0	865.9	867.9	865.9
17.5°	6206.3	5917.7	4545.3	2777.2	1420.9	922.4	829.5	809.3	815.4	823.5	821.5
20°	6345.6	5933.9	4145.6	2119.2	1005.1	809.3	779.1	775.0	781.1	787.1	787.1
22.5°	6497.0	5946.0	3671.3	1467.3	821.5	752.8	736.7	736.7	744.8	752.8	754.9
25°	6610.0	5879.4	3104.2	1053.6	724.6	698.3	690.3	692.3	700.4	704.4	702.4
27.5°	6628.2	5691.7	2502.7	807.3	658.0	631.7	623.7	631.7	621.6	627.7	623.7
30°	6644.3	5453.5	1893.2	680.2	597.4	557.1	544.9	532.8	524.8	514.7	512.7
32.5°	6694.8	5173.0	1382.6	611.6	540.9	496.5	468.3	433.9	407.7	399.6	397.6
35°	6717.0	4835.9	1015.2	557.1	490.5	442.0	391.6	343.1	304.8	290.6	300.7
37.5°	6801.7	4508.9	787.1	516.7	446.0	385.5	320.9	260.4	224.0	216.0	220.0
40°	6975.3	4153.7	660.0	482.4	407.7	333.0	254.3	195.8	171.6	163.5	161.5
42.5°	7253.9	3800.5	587.3	450.1	369.4	280.5	199.8	153.4	133.2	127.2	127.2
45°	7592.9	3461.4	536.9	415.8	329.0	226.1	157.4	123.1	111.0	107.0	107.0
47.5°	8039.0	3164.7	494.5	381.5	284.6	179.6	127.2	107.0	98.9	100.9	102.9
50°	8491.1	2944.7	448.1	343.1	234.1	147.3	109.0	94.9	92.8	94.9	94.9
52.5°	8832.2	2815.6	385.5	290.6	183.7	123.1	96.9	88.8	86.8	82.8	82.8
55°	9292.4	2787.3	306.8	236.1	145.3	102.9	86.8	80.7	74.7	70.6	68.6
57.5°	9883.7	2819.6	236.1	183.7	113.0	84.8	76.7	66.6	58.5	50.5	50.5
60°	10251.1	2746.9	183.7	141.3	82.8	68.6	58.5	48.4	38.3	32.3	30.3
62.5°	10134.0	2440.2	145.3	105.0	58.5	50.5	38.3	32.3	22.2	16.1	14.1
65°	9530.5	1969.9	117.1	72.7	42.4	30.3	20.2	20.2	10.1	2.0	0.0
67.5°	8341.7	1459.2	92.8	48.4	24.2	14.1	10.1	6.1	0.0	0.0	0.0
70°	6789.6	1053.6	72.7	30.3	14.1	10.1	4.0	2.0	0.0	0.0	0.0
72.5°	4311.1	603.5	56.5	18.2	10.1	4.0	0.0	0.0	0.0	0.0	0.0
75°	1667.1	236.1	38.3	12.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	472.3	111.0	22.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	123.1	48.4	12.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	58.5	20.2	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.3	8.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	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)