

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: P457119

Luminaire Tested: **GALN-SA8B-830-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457119
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
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-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26413 lumens
Efficiency: N/A
Efficacy: 81.3 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

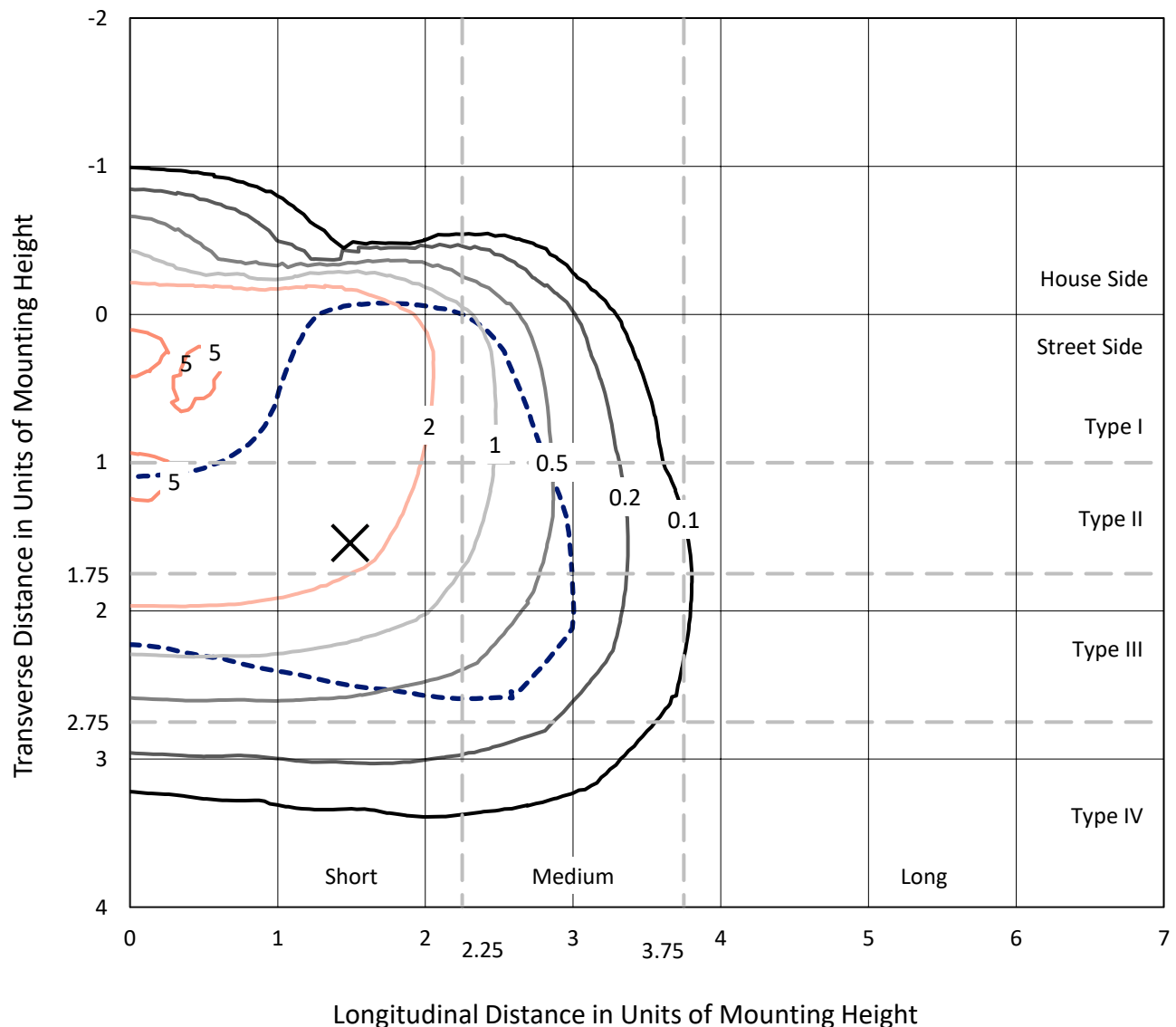


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Iso-Footcandle Lines of Horizontal Illumination

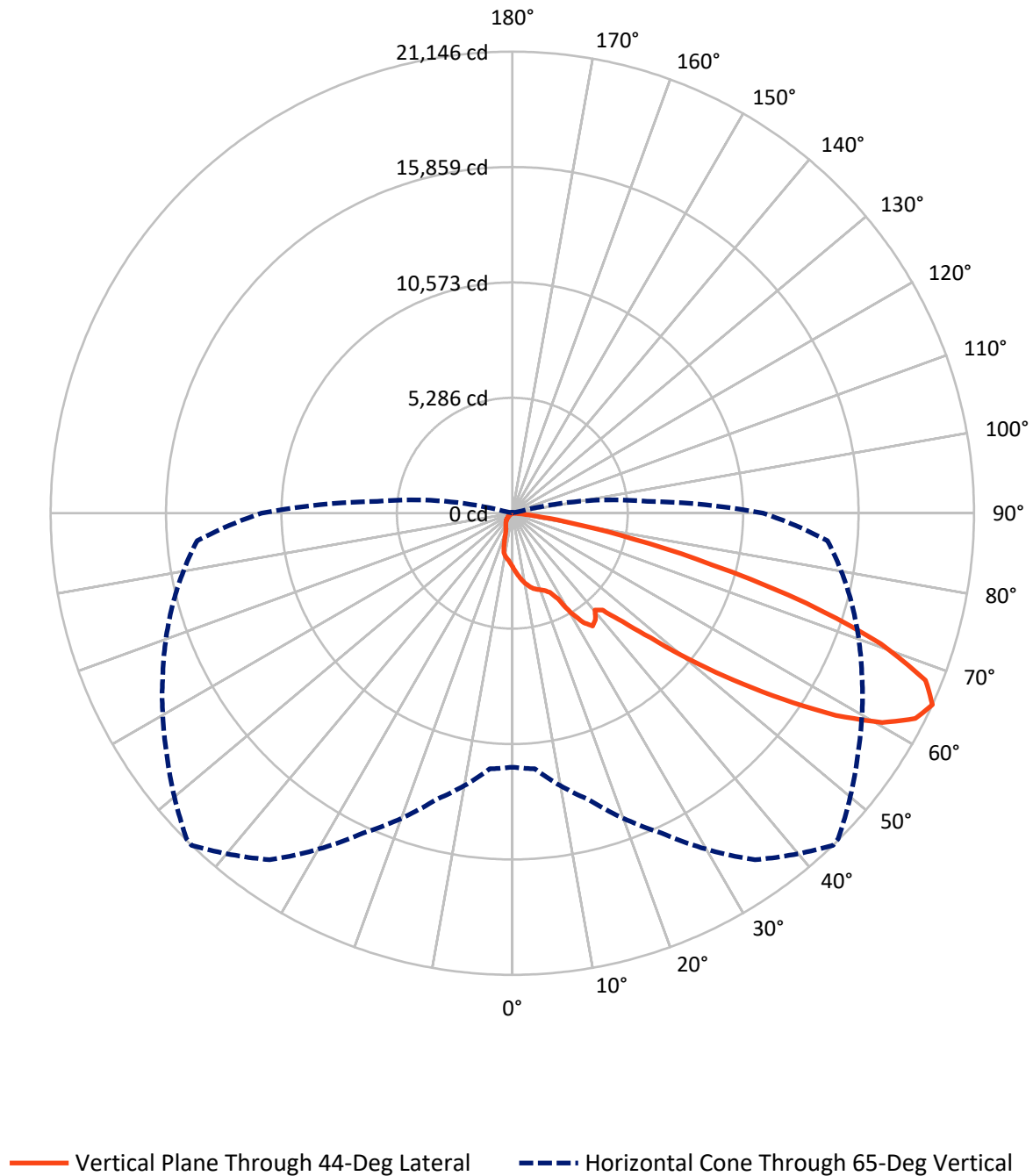
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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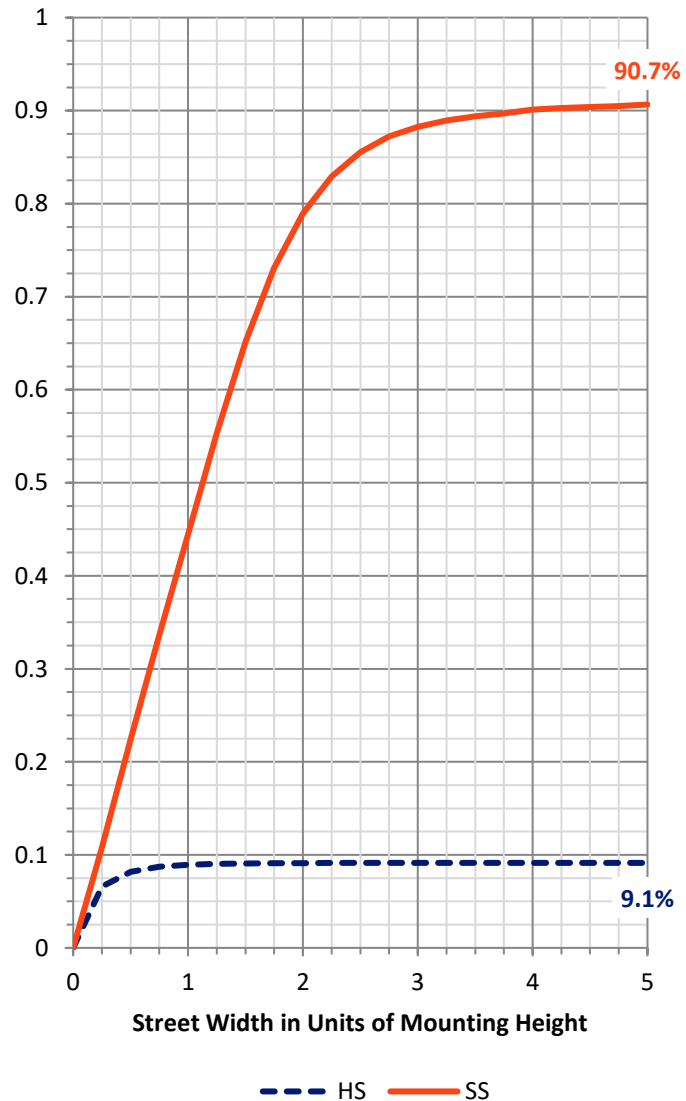
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2433.6	0.0	2433.6
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	23979.4	0.0	23979.4
	% Fixture	90.8	0.0	90.8
Total	Lumens	26413.0	0.0	26413.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.5	0.9
10°-20°	735.9	2.8
20°-30°	1247.8	4.7
30°-40°	2074.6	7.9
40°-50°	3622.3	13.7
50°-60°	7076.7	26.8
60°-70°	8210.6	31.1
70°-80°	2989.9	11.3
80°-90°	210.7	0.8
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°	26413.0	100.0
0°-180°	26413.0	100.0

Coefficient of Utilization



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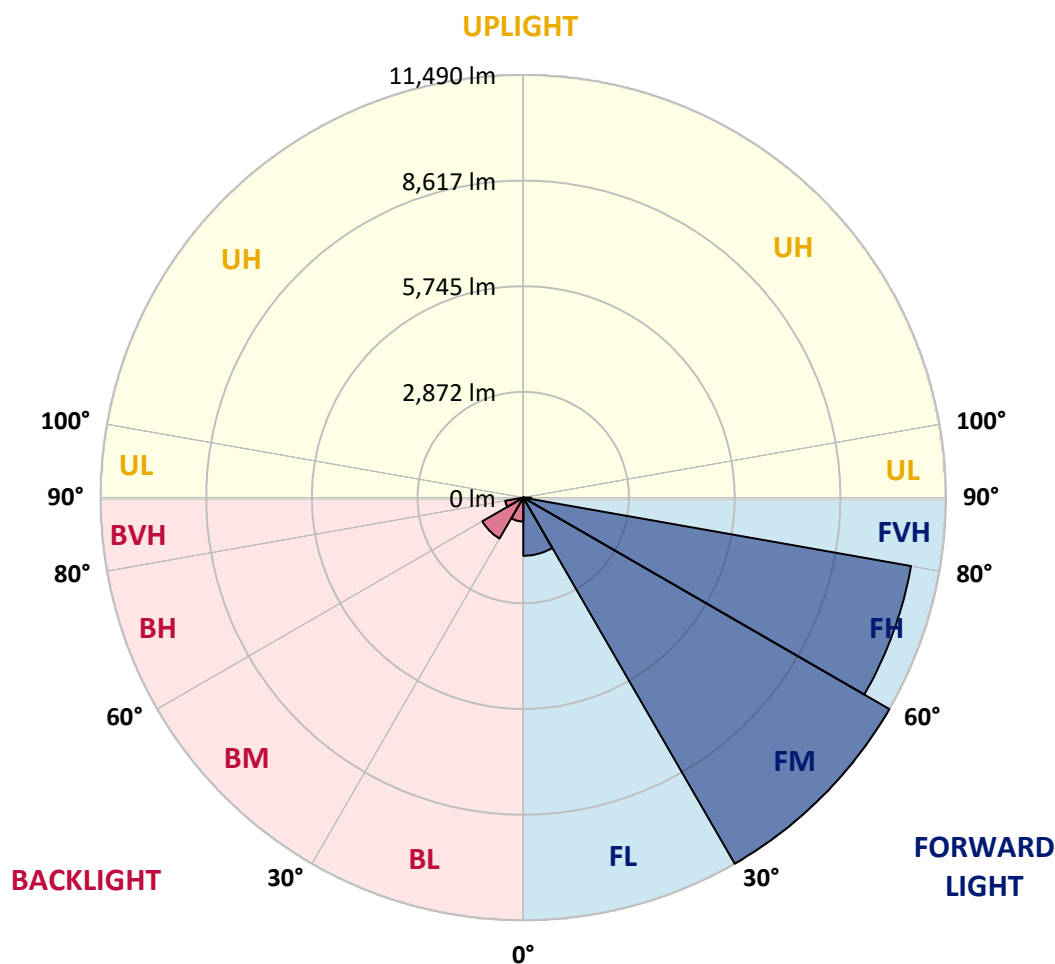
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1579.7	6.0			
FM	(30°-60°)	11489.7	43.5			
FH	(60°-80°)	10702.2	40.5			G4/12000
FVH	(80°-90°)	207.8	0.8			G2/225
BL	(0°-30°)	648.4	2.5	B2/1000		
BM	(30°-60°)	1284.0	4.9	B2/2500		
BH	(60°-80°)	498.4	1.9	B1/500		G1/500
BVH	(80°-90°)	2.9	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°	44°	45°	55°	65°	75°	85°
0°	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3
2.5°	2767.1	2754.9	2748.9	2716.6	2692.4	2662.1	2662.1	2623.8	2579.4	2530.9	2486.5
5°	3075.9	3055.7	3029.4	3001.2	2944.7	2863.9	2863.9	2783.2	2690.4	2607.6	2516.8
7.5°	3372.5	3354.4	3310.0	3255.5	3162.6	3077.9	3071.8	2954.8	2843.8	2718.6	2589.5
10°	3632.9	3618.8	3580.4	3475.5	3378.6	3267.6	3265.6	3134.4	3005.2	2851.8	2692.4
12.5°	3814.5	3816.6	3766.1	3665.2	3540.1	3435.1	3427.0	3297.9	3162.6	2997.1	2801.4
15°	3943.7	3943.7	3891.2	3778.2	3665.2	3572.4	3564.3	3451.3	3312.0	3132.4	2920.4
17.5°	3980.0	3992.2	3935.6	3834.7	3743.9	3663.2	3661.2	3566.3	3455.3	3281.7	3041.5
20°	3965.9	3978.0	3933.6	3854.9	3792.3	3745.9	3739.9	3701.5	3598.6	3435.1	3170.7
22.5°	3935.6	3947.8	3915.5	3869.0	3838.8	3852.9	3842.8	3875.1	3820.6	3622.8	3324.1
25°	3941.7	3953.8	3929.6	3903.3	3929.6	4016.4	4042.6	4181.9	4133.4	3861.0	3489.6
27.5°	4131.4	4155.6	4121.3	4133.4	4226.3	4428.1	4478.6	4718.7	4504.8	4163.7	3747.9
30°	4553.2	4537.1	4472.5	4531.0	4854.0	5281.8	5267.7	5229.4	4894.3	4512.9	4054.7
32.5°	4936.7	4922.6	4918.5	5170.8	5756.1	5964.0	5953.9	5582.6	5243.5	4912.5	4357.5
35°	5092.1	5037.6	5025.5	5637.1	6615.9	6341.4	6278.9	5727.9	5667.3	5348.4	4666.3
37.5°	5560.4	5522.0	5334.3	5713.7	6272.8	6182.0	6133.5	5978.1	6119.4	5733.9	5015.4
40°	6525.1	6418.1	6248.6	5877.2	5786.4	5824.8	5873.2	6299.0	6654.3	6260.7	5481.6
42.5°	7723.9	7699.7	7384.9	6692.6	6012.5	6064.9	6127.5	6969.1	7423.2	7053.9	6242.5
45°	9163.0	9197.3	8743.2	7925.8	7033.7	7078.1	7168.9	7958.1	8464.7	8287.0	7439.4
47.5°	10470.8	10444.6	10291.2	9441.5	8618.0	8519.2	8666.5	9227.6	9905.7	9934.0	8924.8
50°	11786.7	11926.0	11697.9	11364.9	10753.4	10545.5	10491.0	10765.5	11798.9	11663.6	10709.0
52.5°	13677.9	13750.5	13322.7	13237.9	13377.1	12703.0	12648.5	12715.2	13639.5	13175.3	12045.1
55°	14866.6	14824.3	14664.8	15326.8	15877.8	15036.2	14967.5	14699.1	15167.4	14243.0	13330.7
57.5°	15242.0	15302.6	15673.9	16870.8	18174.6	17460.1	17335.0	16572.1	16269.3	15238.0	14513.4
60°	15074.5	15185.5	15986.8	17766.9	19575.3	19468.3	19361.3	18079.7	17060.5	16069.5	15342.9
62.5°	13881.7	14037.1	15318.7	17607.5	20049.6	20717.6	20584.4	19020.3	17587.3	16473.2	15488.3
65°	11633.4	11748.4	13589.1	16160.4	19375.5	21145.5	21097.1	19314.9	17670.0	16103.8	14493.3
67.5°	8293.1	8684.7	10390.1	13619.3	17381.4	20414.9	20497.6	18961.7	16893.0	14507.4	12002.7
70°	5213.2	5479.6	6702.7	9750.3	13934.2	17910.2	18182.7	17345.1	14660.8	11308.4	8034.8
72.5°	2486.5	2684.3	3556.2	6171.9	9835.1	14091.6	14307.6	14239.0	11336.7	7124.5	4145.5
75°	1108.0	1182.7	1697.4	3150.5	6349.5	9471.8	10030.8	10123.7	7084.2	3485.6	1612.6
77.5°	565.1	567.1	795.2	1525.8	3170.7	5651.2	5762.2	6087.1	3840.8	1535.9	561.1
80°	300.7	320.9	421.8	720.5	1644.9	2783.2	2769.1	3043.6	1703.4	752.8	187.7
82.5°	135.2	149.4	238.2	377.4	803.3	1055.6	1138.3	1245.3	730.6	480.4	82.7
85°	40.4	48.4	117.1	189.7	290.6	304.8	341.1	440.0	413.7	341.1	42.4
87.5°	6.1	6.1	48.4	52.5	42.4	54.5	56.5	62.6	133.2	125.1	22.2
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°	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3
2.5°	2462.3	2448.2	2397.7	2355.3	2319.0	2296.8	2270.6	2254.4	2246.3	2240.3	2242.3
5°	2472.4	2438.1	2351.3	2282.7	2230.2	2173.7	2135.3	2113.1	2103.0	2086.9	2086.9
7.5°	2528.9	2474.4	2353.3	2248.4	2157.5	2080.8	2008.2	1981.9	1963.8	1959.7	1955.7
10°	2609.6	2541.0	2375.5	2230.2	2101.0	1996.1	1893.1	1802.3	1731.7	1689.3	1683.2
12.5°	2710.5	2611.7	2409.8	2218.1	2052.6	1866.9	1594.4	1410.8	1287.7	1249.3	1255.4
15°	2803.4	2696.4	2444.1	2208.0	1963.8	1548.0	1239.2	1029.3	966.8	960.7	962.7
17.5°	2914.4	2787.2	2484.5	2193.9	1719.6	1182.7	920.3	863.8	875.9	896.1	894.1
20°	3029.4	2884.1	2532.9	2109.1	1372.4	890.1	813.4	819.4	837.6	855.7	859.8
22.5°	3152.6	2995.1	2589.5	1905.3	1047.5	775.0	771.0	779.1	797.2	817.4	821.4
25°	3322.1	3134.4	2631.8	1638.8	793.2	716.5	724.6	738.7	754.8	777.0	781.1
27.5°	3540.1	3322.1	2654.0	1291.7	686.2	664.0	666.0	686.2	706.4	726.6	726.6
30°	3822.6	3546.1	2609.6	976.8	633.7	613.6	605.5	617.6	643.8	664.0	666.0
32.5°	4074.9	3758.0	2492.6	746.8	595.4	567.1	547.0	549.0	559.1	571.2	573.2
35°	4327.2	3963.9	2292.8	627.7	555.0	522.7	492.5	476.3	468.2	462.2	468.2
37.5°	4650.1	4220.2	2026.4	571.2	520.7	480.4	438.0	403.7	375.4	357.2	361.3
40°	5065.9	4575.4	1711.5	534.8	488.4	440.0	383.5	339.1	290.6	274.5	266.4
42.5°	5752.1	5114.3	1380.5	504.6	456.1	397.6	327.0	266.4	222.0	205.9	209.9
45°	6835.9	5794.5	1063.6	472.3	423.8	351.2	274.5	209.9	173.6	165.5	169.5
47.5°	8272.9	6674.4	819.4	435.9	383.5	300.7	216.0	165.5	143.3	141.3	139.3
50°	9625.2	7493.9	684.2	395.6	335.0	250.3	177.6	139.3	125.1	123.1	123.1
52.5°	10848.2	8081.2	557.0	349.2	282.6	205.9	149.4	123.1	111.0	105.0	105.0
55°	11936.1	8464.7	452.1	292.7	222.0	163.5	129.2	111.0	96.9	88.8	86.8
57.5°	12757.5	8511.1	339.1	234.1	165.5	127.2	111.0	96.9	80.7	70.6	66.6
60°	13108.7	8109.4	250.3	177.6	123.1	100.9	88.8	78.7	60.5	50.5	48.4
62.5°	12755.5	7328.4	185.7	135.2	94.9	74.7	62.6	58.5	42.4	30.3	28.3
65°	11490.1	6200.1	147.3	102.9	70.6	54.5	40.4	38.3	26.2	14.1	12.1
67.5°	9205.4	4856.0	117.1	76.7	50.5	36.3	26.2	24.2	14.1	4.0	4.0
70°	5986.2	3104.1	94.9	56.5	32.3	24.2	16.1	12.1	8.1	2.0	0.0
72.5°	2960.8	1451.1	76.7	44.4	22.2	12.1	6.1	4.0	6.1	0.0	0.0
75°	1148.4	516.7	56.5	30.3	12.1	6.1	4.0	0.0	2.0	0.0	0.0
77.5°	381.5	171.6	34.3	16.1	8.1	4.0	0.0	0.0	0.0	0.0	0.0
80°	141.3	66.6	18.2	10.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	56.5	26.2	12.1	8.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.3	16.1	8.1	6.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.2	12.1	8.1	6.1	4.0	2.0	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)