

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: P651251

Luminaire Tested: **GALN-SA2D-840-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651251  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-840-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8653.1 lumens  
Efficiency: N/A  
Efficacy: 69.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B1 - U0 - G0

Input Watts (W): 125  
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

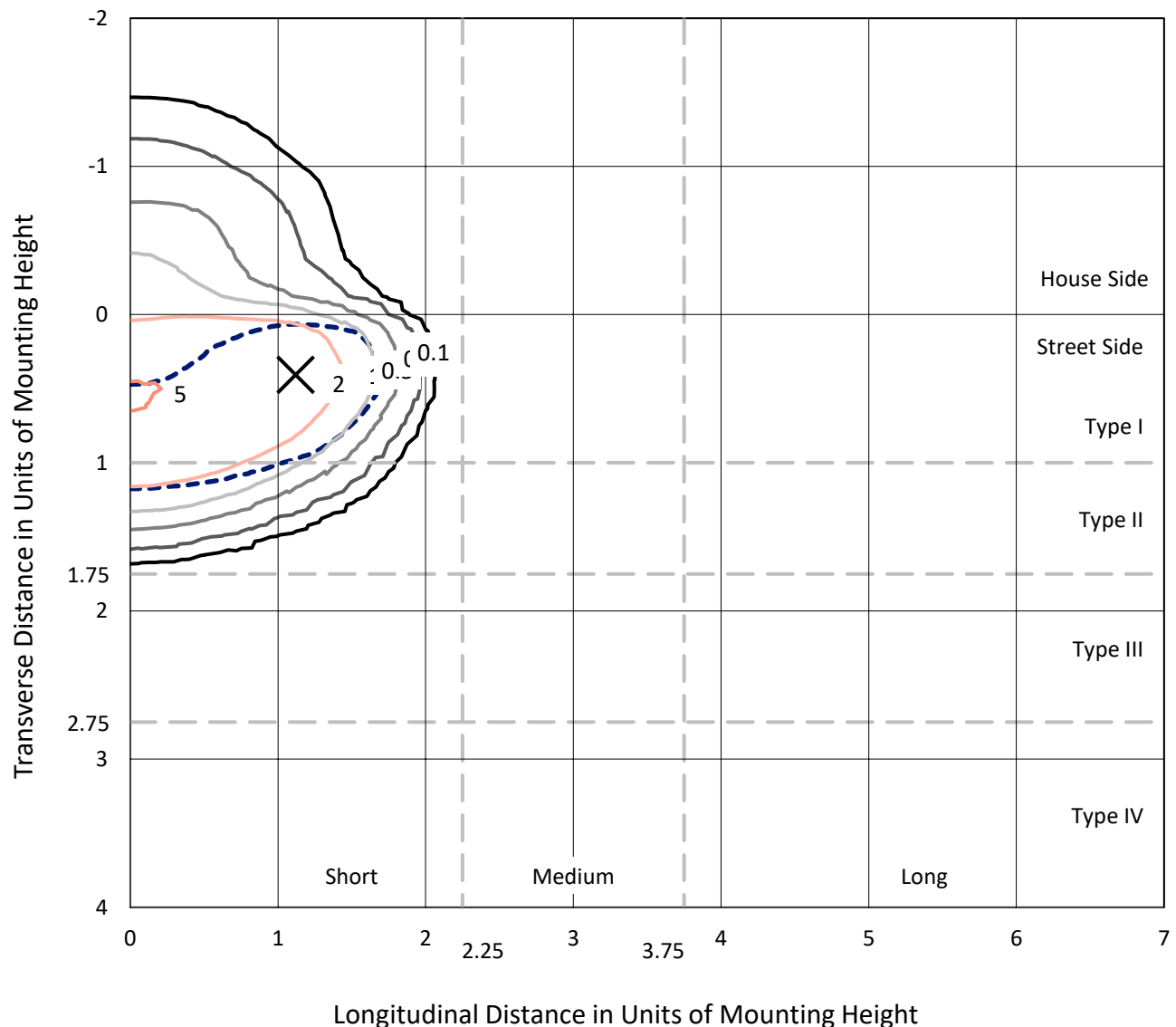


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## Iso-Footcandle Lines of Horizontal Illumination

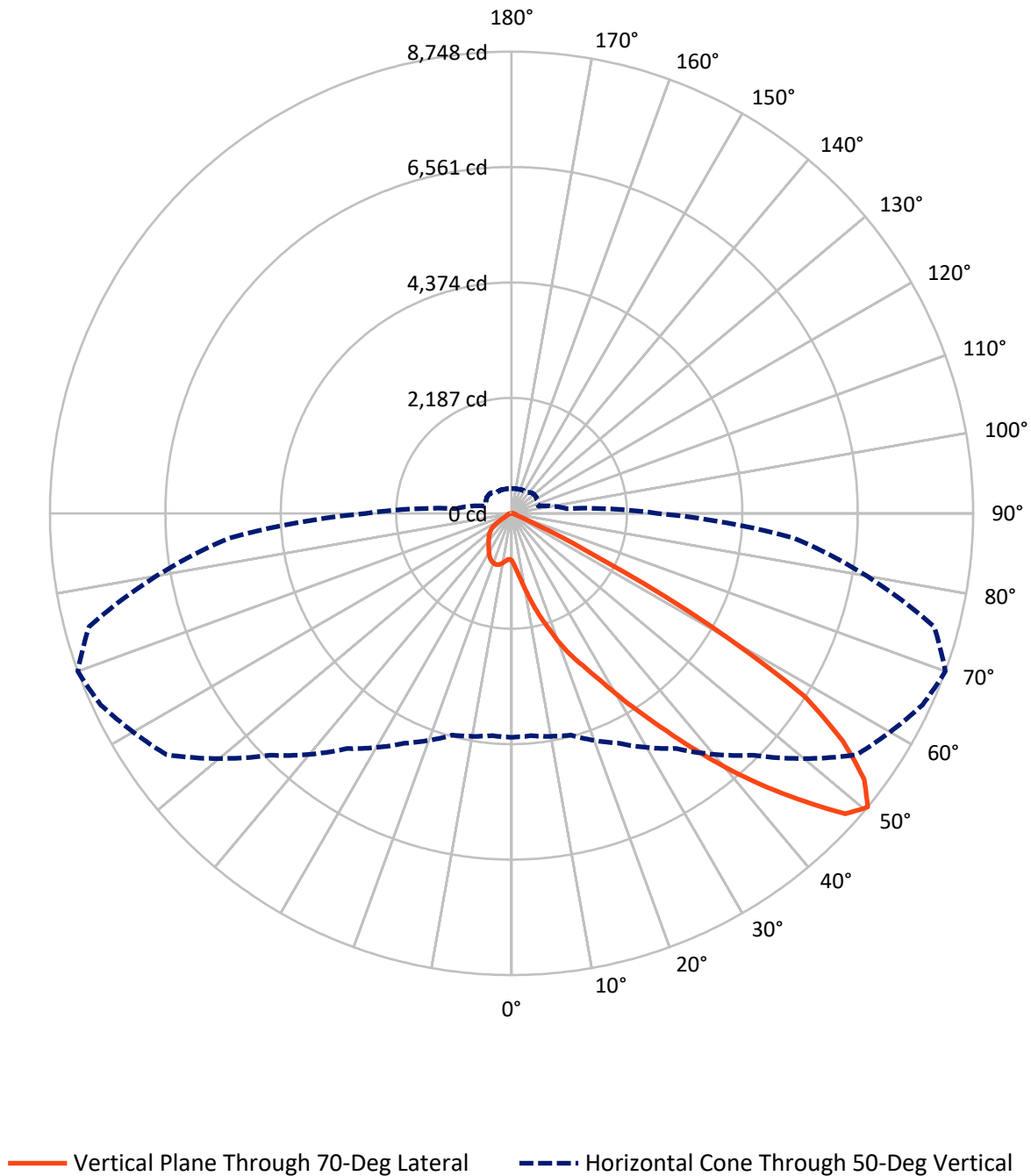
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type I - Short - N/A

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## Luminous Intensity Polar Plot



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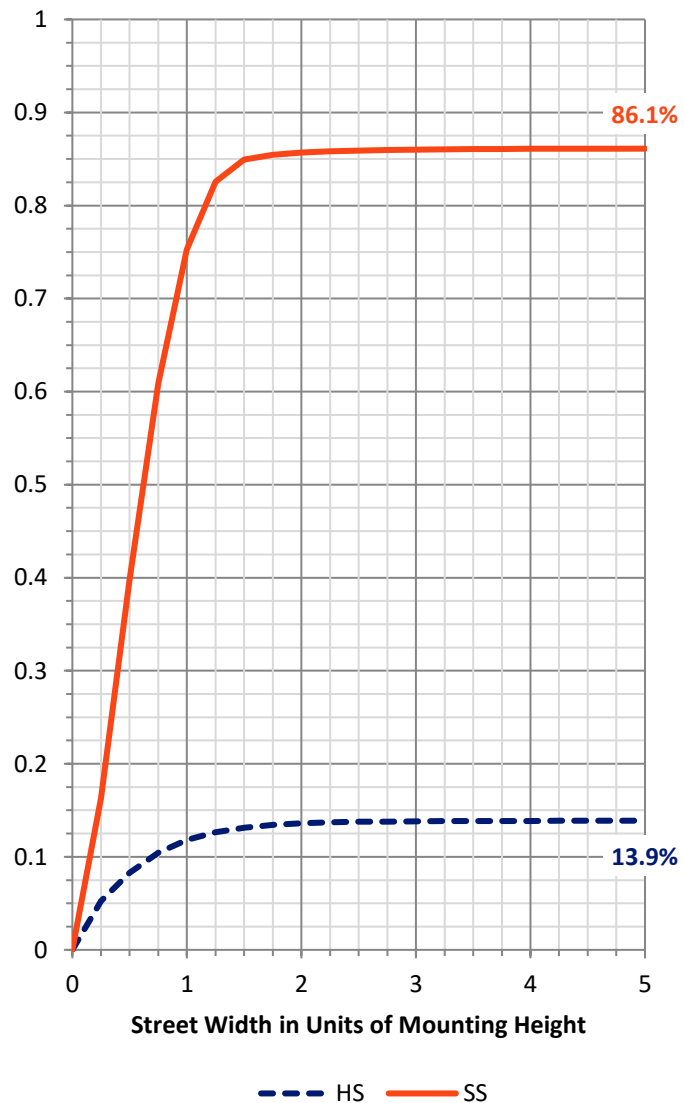
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1208.5	0.0	1208.5
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	7444.6	0.0	7444.6
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	8653.1	0.0	8653.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.6	1.3
10°-20°	504.2	5.8
20°-30°	1057.6	12.2
30°-40°	1823.0	21.1
40°-50°	2664.3	30.8
50°-60°	2075.1	24.0
60°-70°	351.6	4.1
70°-80°	48.3	0.6
80°-90°	12.5	0.1
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°	8653.1	100.0
0°-180°	8653.1	100.0

**Coefficient of Utilization**



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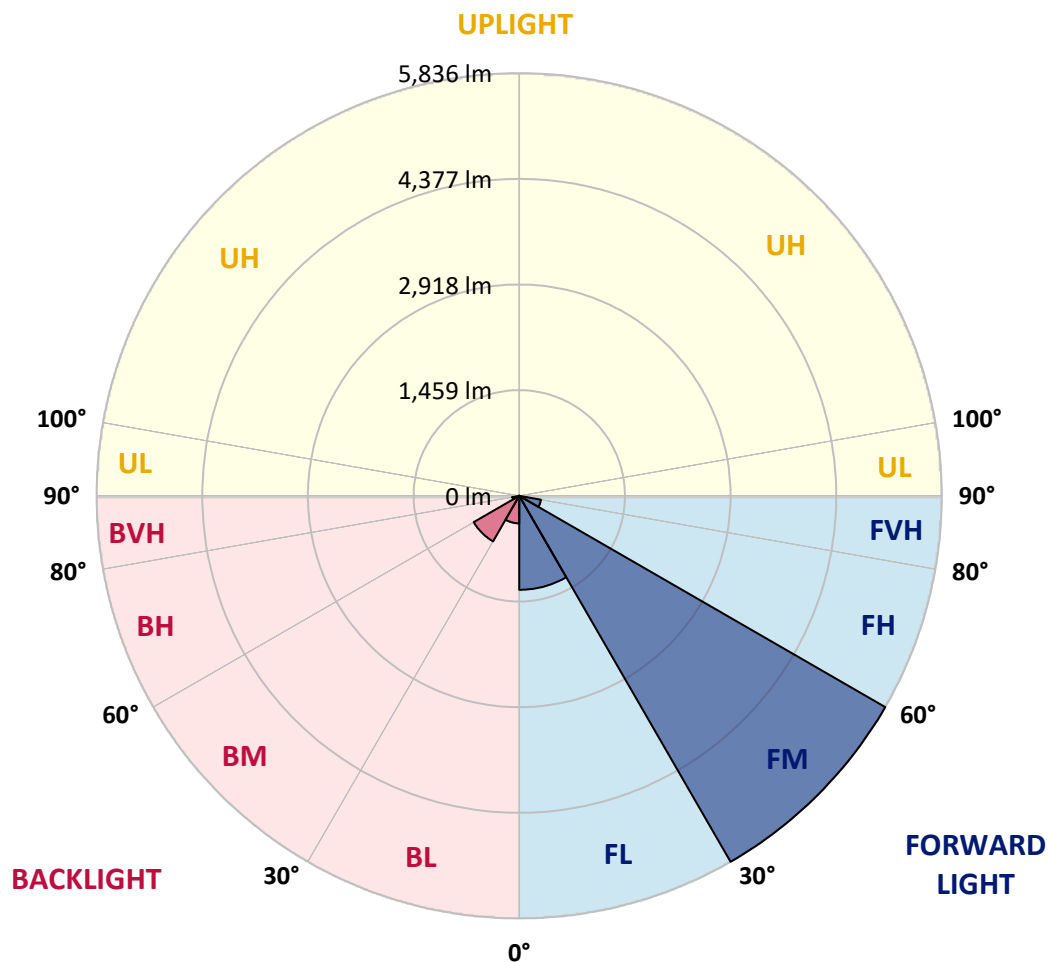
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1298.1	15.0			
FM	(30°-60°)	5836.3	67.4			
FH	(60°-80°)	304.4	3.5			G0/660
FVH	(80°-90°)	5.8	0.1			G0/10
BL	(0°-30°)	380.3	4.4	B1/500		
BM	(30°-60°)	726.0	8.4	B1/1000		
BH	(60°-80°)	95.5	1.1	B0/110		G0/110
BVH	(80°-90°)	6.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	896.3	896.3	896.3	896.3	896.3	896.3	896.3	896.3	896.3	896.3	896.3
2.5°	1173.7	1165.2	1146.7	1112.6	1098.3	1064.2	1044.3	1005.8	981.6	954.6	924.8
5°	1653.2	1609.1	1582.0	1543.6	1431.2	1361.5	1246.3	1148.1	1102.6	1052.8	984.5
7.5°	2148.3	2119.8	2082.8	2000.3	1923.5	1778.4	1580.6	1364.4	1271.8	1186.5	1051.3
10°	2558.0	2478.3	2474.1	2412.8	2328.9	2155.3	1917.7	1648.9	1483.9	1358.6	1146.7
12.5°	2843.9	2771.3	2804.1	2797.0	2718.7	2559.4	2284.8	1929.2	1757.0	1562.1	1244.8
15°	3104.3	3074.4	3064.4	3055.9	3024.6	2906.5	2660.4	2270.6	2021.6	1786.9	1355.8
17.5°	3359.0	3282.1	3319.1	3326.2	3323.4	3216.7	2986.2	2595.0	2301.9	2024.5	1472.5
20°	3585.2	3592.2	3542.5	3532.5	3524.0	3519.7	3295.0	2916.5	2646.2	2273.5	1624.7
22.5°	3875.3	3825.5	3869.7	3841.2	3785.8	3751.6	3579.5	3201.0	2944.9	2573.6	1779.8
25°	4218.2	4258.1	4154.2	4142.9	4081.6	3963.5	3808.5	3519.7	3232.3	2852.5	1947.7
27.5°	4640.8	4571.1	4544.0	4481.4	4370.4	4320.6	4138.6	3848.3	3579.5	3145.5	2109.8
30°	5003.5	4985.0	4849.9	4776.0	4679.2	4677.7	4423.1	4293.6	4031.8	3605.0	2333.2
32.5°	5299.5	5218.4	5168.6	5117.4	5039.1	5060.5	4845.7	4777.4	4514.2	4031.8	2596.4
35°	5497.2	5438.9	5409.0	5330.8	5308.0	5403.3	5313.7	5285.3	5069.0	4632.2	2905.1
37.5°	5559.9	5578.3	5572.6	5474.5	5522.8	5780.4	5895.6	5821.6	5707.8	5265.3	3239.4
40°	5615.3	5628.1	5599.6	5714.8	5852.9	6145.9	6562.8	6440.5	6397.7	5906.9	3704.6
42.5°	5646.6	5636.6	5636.6	5835.8	6044.9	6634.0	7207.3	7126.2	7093.5	6589.8	4242.4
45°	5511.4	5414.7	5518.6	5788.9	6209.9	6874.3	7722.3	7834.7	7787.7	7402.1	4871.2
47.5°	5006.4	5066.2	5124.5	5485.8	6009.4	6800.4	8038.1	8420.8	8507.6	8085.0	5283.8
50°	4242.4	4229.6	4350.6	4805.8	5441.8	6481.7	7977.0	8590.1	8748.0	8289.9	5370.6
52.5°	3085.8	3179.7	3310.6	3763.0	4517.0	5656.6	7187.4	8153.3	8363.9	8038.1	5313.7
55°	1796.9	1693.0	1987.5	2370.2	3081.5	4266.6	6076.2	7227.2	7617.0	7580.0	5026.3
57.5°	719.9	697.1	798.1	1075.6	1607.7	2644.8	4418.9	5938.2	6562.8	6942.6	4417.4
60°	315.8	308.7	362.8	438.2	657.2	1219.2	2417.1	3693.3	4344.9	4851.3	3040.3
62.5°	227.7	224.8	251.8	278.9	347.2	530.7	1015.8	1488.1	1855.2	2240.7	1361.5
65°	183.5	190.7	209.2	223.4	256.1	294.5	358.5	414.0	507.9	526.4	300.2
67.5°	149.4	155.1	172.2	187.8	193.5	159.4	165.0	145.1	145.1	129.4	103.9
70°	109.6	110.9	130.9	149.4	119.5	64.0	112.4	112.4	101.0	96.7	88.2
72.5°	81.1	82.5	98.1	92.5	46.9	39.9	82.5	91.1	82.5	78.2	71.1
75°	59.7	61.1	51.2	21.4	19.9	25.6	48.4	62.6	59.7	58.4	54.1
77.5°	11.4	8.5	7.1	9.9	14.2	21.4	31.3	38.4	39.9	42.6	39.9
80°	1.4	1.4	4.3	8.5	15.6	22.8	32.7	37.0	38.4	39.9	37.0
82.5°	0.0	1.4	4.3	8.5	15.6	21.4	28.4	32.7	35.6	37.0	35.6
85°	0.0	1.4	2.9	7.1	12.8	15.6	14.2	9.9	8.5	9.9	7.1
87.5°	0.0	0.0	1.4	1.4	2.9	2.9	2.9	2.9	2.9	2.9	2.9
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°	896.3	896.3	896.3	896.3	896.3	896.3	896.3	896.3	896.3	896.3	896.3
2.5°	907.7	902.0	882.0	860.7	842.3	850.8	842.3	835.1	838.0	835.1	832.3
5°	957.5	931.8	889.2	870.7	855.0	853.6	849.3	847.9	849.3	849.3	836.5
7.5°	1004.4	963.1	917.6	897.7	879.2	880.6	870.7	870.7	869.3	862.1	859.3
10°	1075.6	1020.0	961.8	926.2	903.4	899.1	889.2	879.2	879.2	879.2	865.0
12.5°	1153.8	1084.0	1004.4	963.1	936.1	914.8	899.1	896.3	880.6	877.8	870.7
15°	1222.1	1133.8	1032.8	976.0	941.8	913.3	889.2	873.5	866.4	862.1	856.5
17.5°	1288.9	1176.6	1048.5	976.0	939.0	906.3	880.6	866.4	849.3	852.2	840.8
20°	1378.6	1222.1	1052.8	957.5	911.9	880.6	846.5	839.4	829.4	820.9	823.8
22.5°	1465.4	1254.8	1040.0	934.7	869.3	832.3	815.2	806.7	802.4	795.2	785.3
25°	1543.6	1290.3	1020.0	893.5	823.8	796.7	781.0	779.6	769.7	769.7	751.2
27.5°	1623.3	1303.1	985.9	845.0	783.9	768.3	761.1	758.2	754.0	744.0	731.2
30°	1714.3	1307.4	936.1	795.2	748.3	731.2	741.2	748.3	729.8	711.3	717.0
32.5°	1789.7	1297.5	876.4	748.3	722.8	714.2	734.1	741.2	719.9	700.0	690.0
35°	1880.8	1273.3	818.0	711.3	697.1	714.2	731.2	731.2	688.6	664.4	658.7
37.5°	2018.7	1246.3	764.0	680.0	670.1	705.7	728.4	712.7	645.9	616.0	608.9
40°	2166.8	1229.2	711.3	648.7	655.8	691.4	704.3	655.8	587.6	569.1	563.4
42.5°	2381.5	1195.1	664.4	621.7	643.0	671.5	671.5	584.7	559.1	549.2	547.7
45°	2649.0	1170.8	623.1	599.0	624.5	631.7	608.9	547.7	529.2	526.4	527.8
47.5°	2779.9	1123.9	580.5	571.9	590.4	591.8	532.1	517.9	502.2	498.0	495.1
50°	2760.0	1040.0	525.0	536.4	562.0	547.7	485.2	487.9	473.7	472.3	465.2
52.5°	2620.6	907.7	469.4	496.5	525.0	483.7	446.7	443.9	443.9	425.4	418.2
55°	2323.3	731.2	402.6	436.7	470.9	406.9	397.0	394.1	386.9	369.9	365.7
57.5°	1839.5	536.4	303.0	340.0	399.8	345.7	344.3	331.5	313.0	300.2	300.2
60°	1094.1	308.7	190.7	207.7	264.6	280.3	311.6	305.9	274.6	254.7	248.9
62.5°	499.4	159.4	120.9	123.8	142.3	182.1	244.7	283.1	239.0	204.9	202.0
65°	167.9	118.1	99.6	95.3	98.1	109.6	146.5	200.6	190.7	157.9	152.2
67.5°	102.4	105.3	93.9	86.8	86.8	85.4	83.9	91.1	112.4	109.6	110.9
70°	88.2	96.7	86.8	78.2	75.4	71.1	59.7	49.8	42.6	49.8	52.6
72.5°	71.1	76.8	74.0	66.9	59.7	54.1	42.6	32.7	24.2	21.4	21.4
75°	52.6	56.9	59.7	51.2	45.5	38.4	31.3	21.4	12.8	8.5	8.5
77.5°	38.4	42.6	44.1	39.9	34.1	27.0	19.9	14.2	7.1	2.9	2.9
80°	32.7	38.4	42.6	39.9	35.6	25.6	18.5	9.9	5.7	1.4	1.4
82.5°	31.3	38.4	42.6	38.4	34.1	24.2	18.5	11.4	4.3	1.4	1.4
85°	7.1	9.9	12.8	15.6	18.5	18.5	14.2	8.5	4.3	1.4	1.4
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	1.4	1.4	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)