

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: P451661

Luminaire Tested: **GALN-SA2C-740-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451661  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2C-740-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10380 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

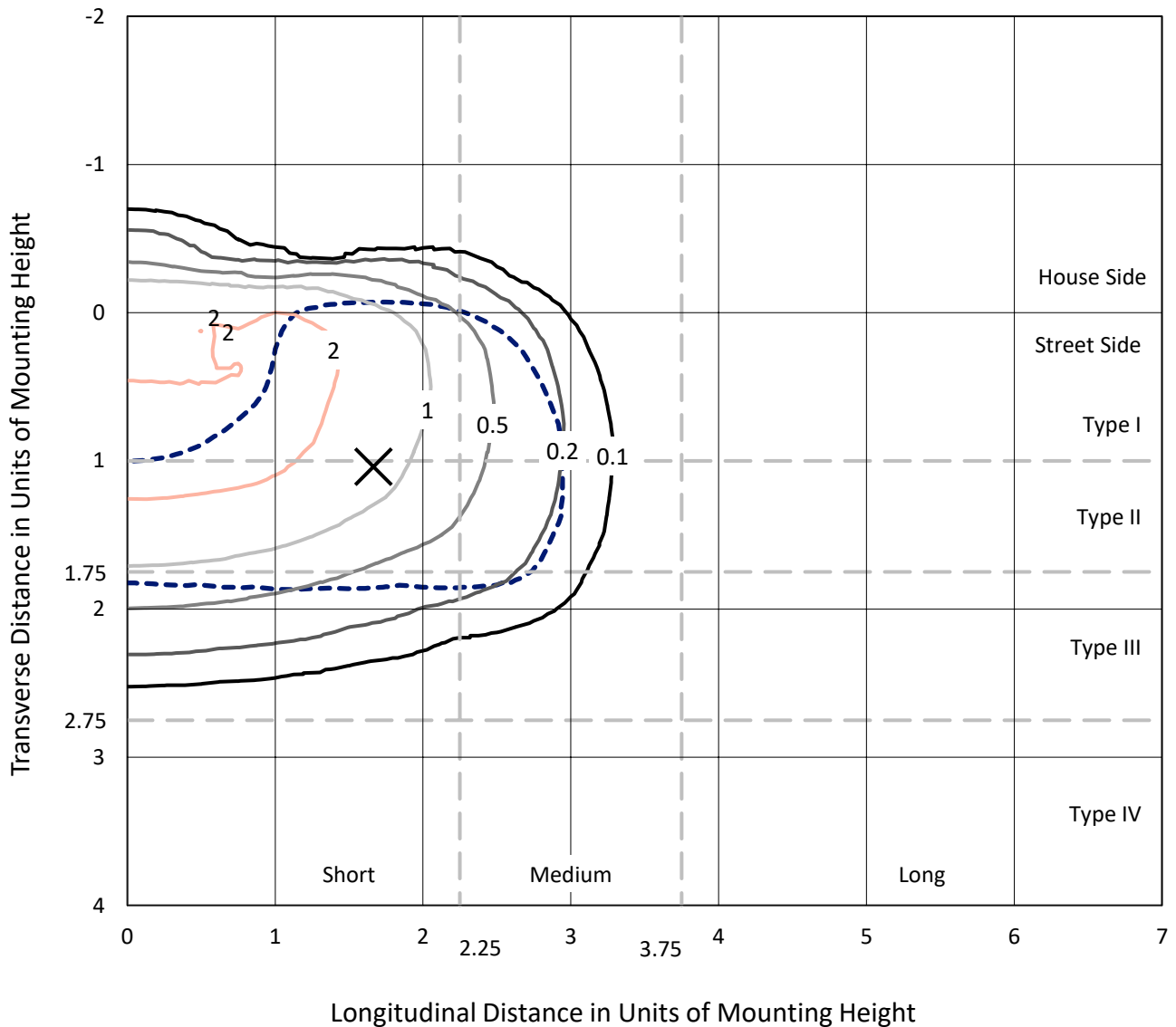




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### Iso-Footcandle Lines of Horizontal Illumination

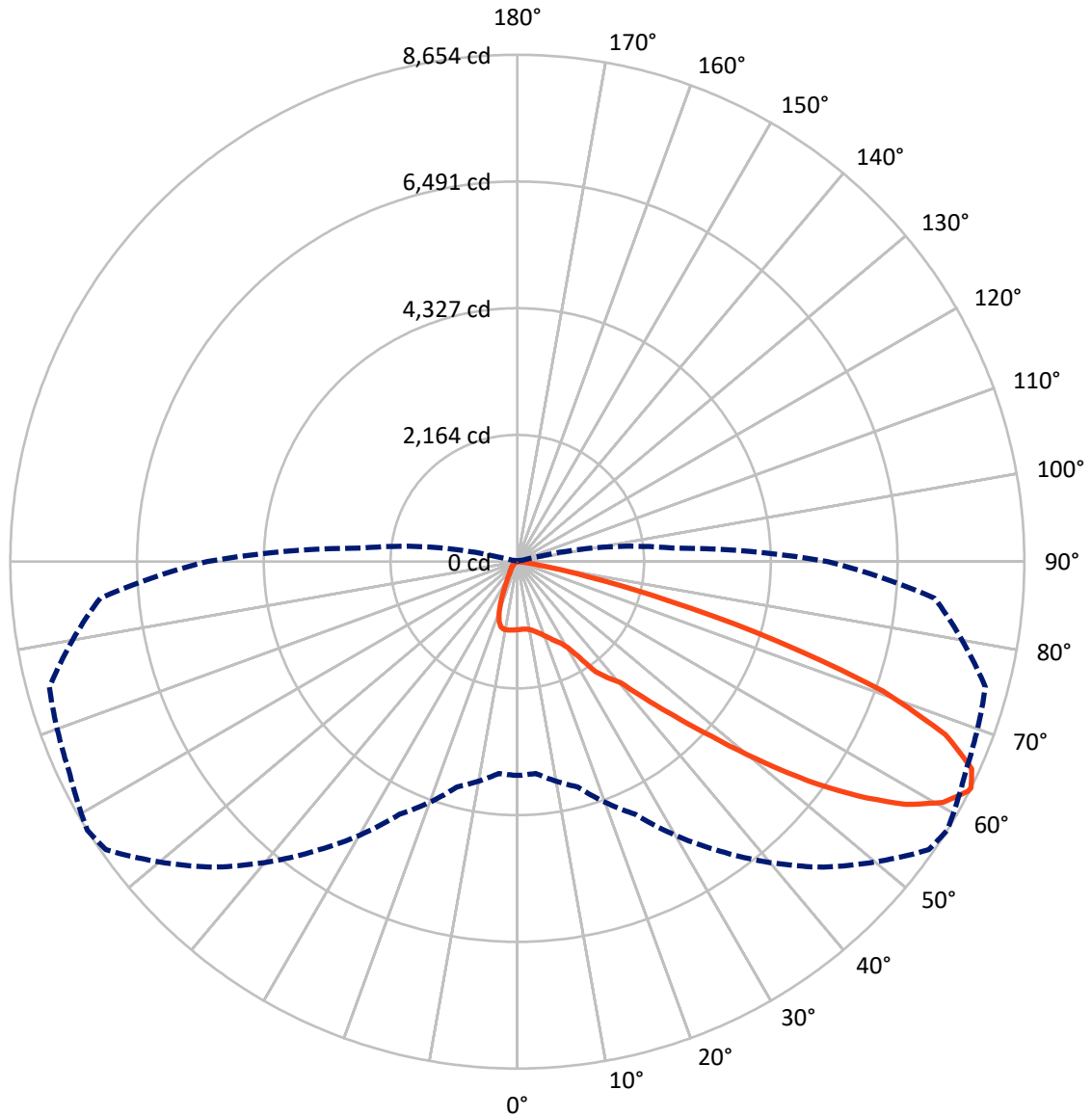
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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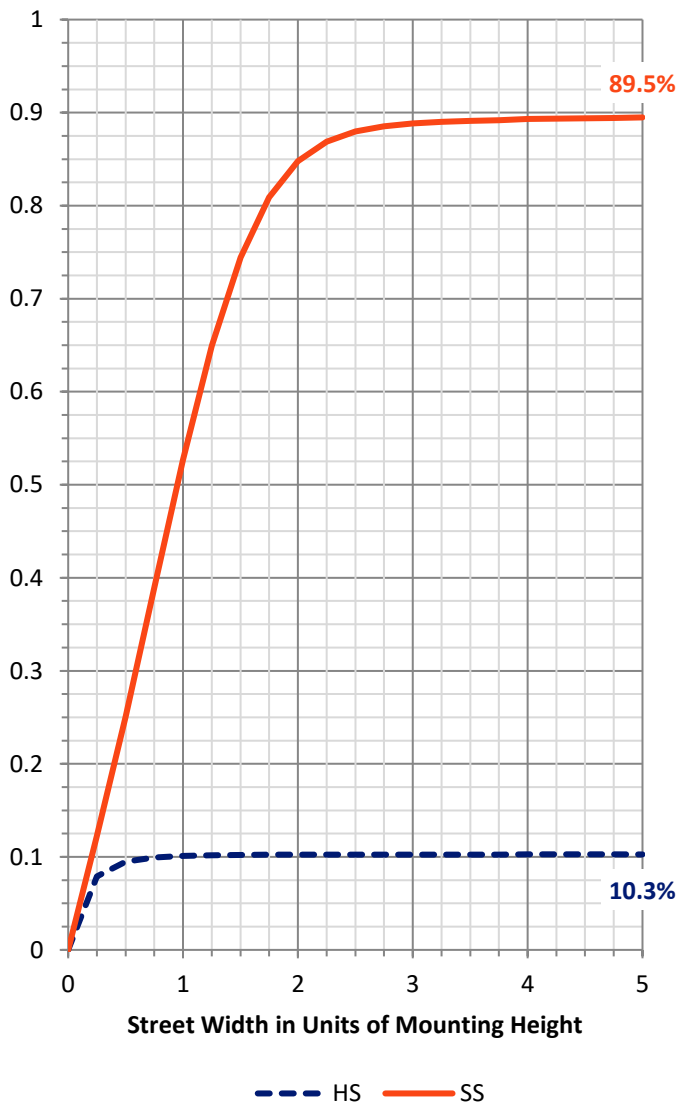
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1074.8	0.0	1074.8
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	9305.2	0.0	9305.2
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	10380.0	0.0	10380.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.8	1.0
10°-20°	296.3	2.9
20°-30°	514.2	5.0
30°-40°	945.0	9.1
40°-50°	1778.9	17.1
50°-60°	3042.6	29.3
60°-70°	2913.3	28.1
70°-80°	742.9	7.2
80°-90°	38.0	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°	10380.0	100.0
0°-180°	10380.0	100.0

**Coefficient of Utilization**



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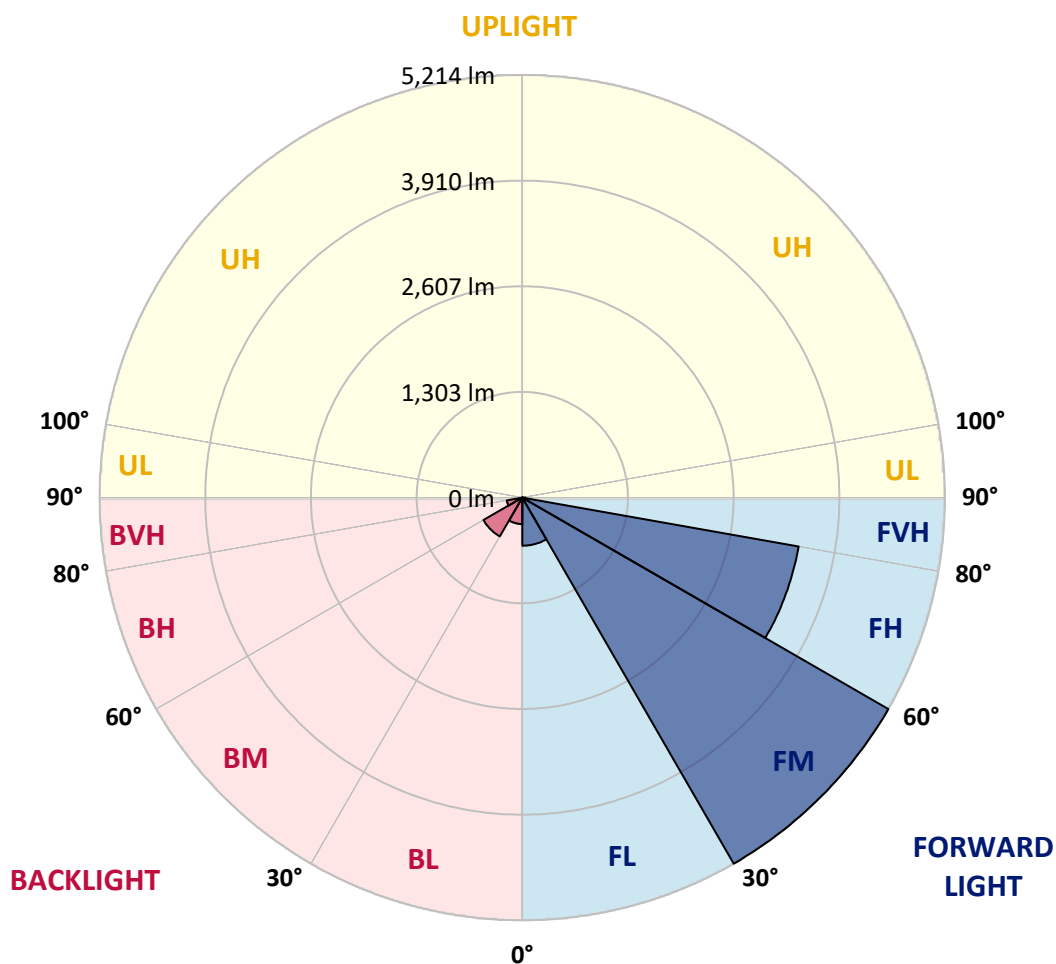
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	593.4	5.7			
FM	(30°-60°)	5213.7	50.2			
FH	(60°-80°)	3461.7	33.3			G2/5000
FVH	(80°-90°)	36.5	0.4			G1/100
BL	(0°-30°)	326.0	3.1	B1/500		
BM	(30°-60°)	552.8	5.3	B1/1000		
BH	(60°-80°)	194.5	1.9	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: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1
2.5°	1133.2	1137.1	1141.0	1142.5	1148.0	1153.5	1157.4	1156.6	1162.9	1166.0	1166.0
5°	1087.8	1087.8	1098.0	1107.4	1123.0	1138.6	1153.5	1156.6	1168.3	1179.3	1183.2
7.5°	1049.5	1051.9	1059.7	1076.9	1098.0	1125.4	1155.0	1162.1	1182.4	1206.6	1216.8
10°	1031.6	1033.1	1043.3	1061.3	1087.8	1125.4	1166.8	1180.1	1211.3	1249.6	1263.7
12.5°	1027.7	1030.0	1040.2	1060.5	1091.0	1136.3	1192.6	1206.6	1252.0	1301.2	1322.3
15°	1034.7	1036.3	1046.4	1068.3	1101.9	1155.8	1226.9	1246.5	1300.4	1357.5	1384.8
17.5°	1059.7	1058.1	1065.2	1083.2	1120.7	1180.1	1268.4	1291.8	1355.1	1433.3	1451.2
20°	1166.0	1155.8	1149.6	1133.9	1148.8	1214.4	1318.4	1352.8	1430.9	1510.6	1523.1
22.5°	1395.0	1372.3	1327.8	1266.8	1219.9	1261.3	1378.6	1418.4	1519.2	1597.4	1597.4
25°	1686.5	1657.5	1613.0	1480.1	1365.3	1338.7	1446.5	1496.6	1615.3	1694.3	1668.5
27.5°	2051.4	2028.8	1942.0	1787.3	1611.4	1473.9	1525.5	1571.6	1700.5	1795.9	1741.9
30°	2348.4	2337.4	2266.3	2128.0	1934.2	1733.4	1672.4	1702.9	1813.8	1924.0	1868.6
32.5°	2599.2	2599.2	2526.6	2397.6	2216.3	2038.1	1921.7	1943.6	2049.9	2177.2	2074.1
35°	2875.1	2865.7	2807.1	2684.4	2481.2	2324.2	2276.5	2306.2	2402.3	2496.9	2242.9
37.5°	3165.0	3161.9	3101.0	2982.2	2816.5	2618.8	2507.0	2514.8	2564.1	2621.9	2440.6
40°	3480.0	3484.7	3405.0	3331.5	3175.2	2972.8	2758.7	2709.4	2755.5	2918.9	2805.6
42.5°	3852.0	3841.0	3806.7	3706.6	3580.8	3459.7	3202.6	3184.6	3225.2	3400.3	3277.6
45°	4284.1	4299.8	4240.4	4184.9	4100.5	3999.7	3784.8	3753.5	3798.1	4070.0	3895.7
47.5°	4717.1	4702.2	4740.5	4730.4	4775.7	4700.7	4510.8	4446.7	4553.8	4811.7	4555.3
50°	5046.9	5063.3	5143.0	5259.5	5454.0	5496.2	5314.2	5292.3	5339.9	5505.6	5145.4
52.5°	5261.0	5315.7	5440.8	5740.1	6091.0	6363.7	6225.4	6213.7	6194.1	6238.7	5709.6
55°	5400.9	5456.4	5619.7	6060.5	6664.6	7107.7	7114.7	7064.7	6935.8	6903.7	6237.1
57.5°	5314.9	5325.9	5558.8	6148.0	6982.6	7638.3	7868.1	7818.1	7579.7	7458.6	6702.9
60°	4777.3	4799.9	5124.3	5816.7	6844.3	7811.8	8367.5	8344.8	8083.8	7947.0	7065.5
62.5°	3824.6	3890.3	4224.0	4996.1	6201.2	7519.5	8569.9	8633.9	8430.8	8242.4	7179.6
63°	3649.6	3628.5	3980.9	4757.0	6030.8	7375.0	8573.0	8654.3	8446.4	8270.5	7148.3
65°	2701.6	2764.9	2993.9	3751.2	5018.8	6702.1	8380.0	8523.8	8388.6	8146.3	6802.1
67.5°	1516.9	1513.8	1767.0	2454.7	3512.8	5257.1	7577.4	7881.4	7853.2	7310.1	5638.5
70°	742.4	754.1	858.1	1272.3	2037.4	3626.9	6296.5	6624.7	6634.9	5741.6	3898.9
72.5°	336.0	341.5	415.8	619.7	1047.2	1931.1	4338.9	4652.2	4594.4	3659.0	2153.0
75°	177.4	189.1	229.0	311.8	504.8	796.3	2360.1	2663.3	2542.2	1671.6	792.4
77.5°	131.3	135.2	155.5	198.5	270.4	310.3	1018.3	1211.3	1134.7	604.9	262.6
80°	96.1	99.2	115.7	140.7	170.4	157.9	383.7	440.0	394.7	205.5	80.5
82.5°	58.6	59.4	84.4	104.7	107.1	88.3	126.6	136.0	142.2	115.7	43.8
85°	21.1	26.6	57.0	75.8	63.3	44.5	53.1	58.6	64.1	73.5	25.8
87.5°	2.3	3.1	27.4	36.7	18.0	16.4	19.5	21.9	23.4	27.4	12.5
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°	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1
2.5°	1169.1	1172.2	1169.9	1166.0	1165.2	1162.9	1158.2	1158.2	1158.2	1159.7	1158.2
5°	1186.3	1188.7	1183.2	1175.4	1166.8	1155.8	1144.1	1137.1	1136.3	1134.7	1130.8
7.5°	1219.1	1222.3	1209.8	1191.0	1167.6	1141.0	1116.0	1092.5	1081.6	1073.0	1073.0
10°	1266.8	1269.9	1244.9	1211.3	1164.4	1110.5	1051.1	997.2	955.0	935.4	930.8
12.5°	1323.9	1325.4	1284.0	1225.4	1148.0	1044.1	917.5	799.5	717.4	679.9	676.0
15°	1386.4	1375.4	1320.7	1230.9	1101.1	907.3	688.5	543.9	458.7	433.7	443.1
17.5°	1449.7	1429.4	1348.9	1222.3	995.6	688.5	462.6	371.2	344.6	337.6	337.6
20°	1509.1	1480.9	1369.2	1184.7	812.8	474.4	343.1	321.2	316.5	311.8	312.6
22.5°	1568.5	1525.5	1387.2	1101.1	605.7	339.2	307.1	300.1	293.8	287.6	286.8
25°	1626.3	1566.9	1394.2	946.4	412.6	291.5	280.6	271.2	258.7	251.6	250.1
27.5°	1686.5	1616.9	1389.5	751.0	300.9	261.0	250.1	236.8	221.9	209.4	209.4
30°	1802.1	1712.3	1373.1	540.0	253.2	229.8	215.7	194.6	178.2	165.7	164.9
32.5°	1960.0	1836.5	1316.8	379.8	225.1	202.4	181.3	157.9	140.7	131.3	131.3
35°	2100.7	1961.5	1211.3	279.8	202.4	175.8	150.0	127.4	114.1	107.8	105.5
37.5°	2314.8	2144.4	1066.0	227.4	180.5	152.4	125.8	104.7	93.8	89.1	89.1
40°	2636.0	2367.9	887.8	199.3	159.4	129.7	104.7	88.3	79.7	74.2	74.2
42.5°	3034.5	2641.4	707.3	179.0	139.9	111.8	87.5	75.0	67.2	63.3	62.5
45°	3536.3	2929.8	544.7	160.2	124.3	95.3	74.2	63.3	55.5	53.1	53.9
47.5°	4059.9	3183.8	422.0	143.8	107.8	80.5	63.3	54.7	49.2	46.1	46.1
50°	4506.9	3358.9	320.4	125.0	95.3	68.0	55.5	49.2	44.5	43.0	42.2
52.5°	4880.4	3409.7	245.4	108.6	83.6	58.6	49.2	44.5	40.6	38.3	38.3
55°	5198.5	3365.1	192.2	91.4	70.3	50.8	43.8	39.9	35.2	32.8	32.0
57.5°	5384.5	3222.1	146.9	75.8	57.0	42.2	38.3	33.6	28.1	24.2	24.2
60°	5478.3	3014.2	112.5	62.5	43.8	33.6	31.3	25.0	19.5	16.4	15.6
62.5°	5365.7	2738.4	85.2	49.2	32.8	25.0	21.1	18.0	12.5	9.4	9.4
63°	5296.2	2658.6	82.1	46.9	30.5	23.4	19.5	16.4	10.9	8.6	7.8
65°	4828.1	2310.9	67.2	37.5	24.2	16.4	13.3	11.7	7.8	3.9	3.1
67.5°	3834.0	1767.7	53.1	28.1	17.2	11.7	7.8	7.0	2.3	0.0	0.0
70°	2592.2	1141.8	41.4	20.3	11.7	7.0	3.9	3.1	0.8	0.0	0.0
72.5°	1352.0	585.3	32.0	14.8	7.0	4.7	2.3	0.8	0.0	0.0	0.0
75°	478.3	199.3	23.4	9.4	4.7	2.3	0.8	0.0	0.0	0.0	0.0
77.5°	144.6	74.2	14.8	7.0	3.1	1.6	0.0	0.0	0.0	0.0	0.0
80°	50.8	27.4	8.6	4.7	2.3	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	25.0	13.3	5.5	3.9	2.3	0.8	0.0	0.0	0.0	0.0	0.0
85°	14.1	8.6	4.7	3.9	2.3	1.6	0.0	0.0	0.0	0.0	0.0
87.5°	10.2	6.3	4.7	3.9	3.1	1.6	0.8	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)