

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: P452299

Luminaire Tested: **GALN-SA3B-727-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452299  
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-SA3B-727-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 800mA 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: 10430 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

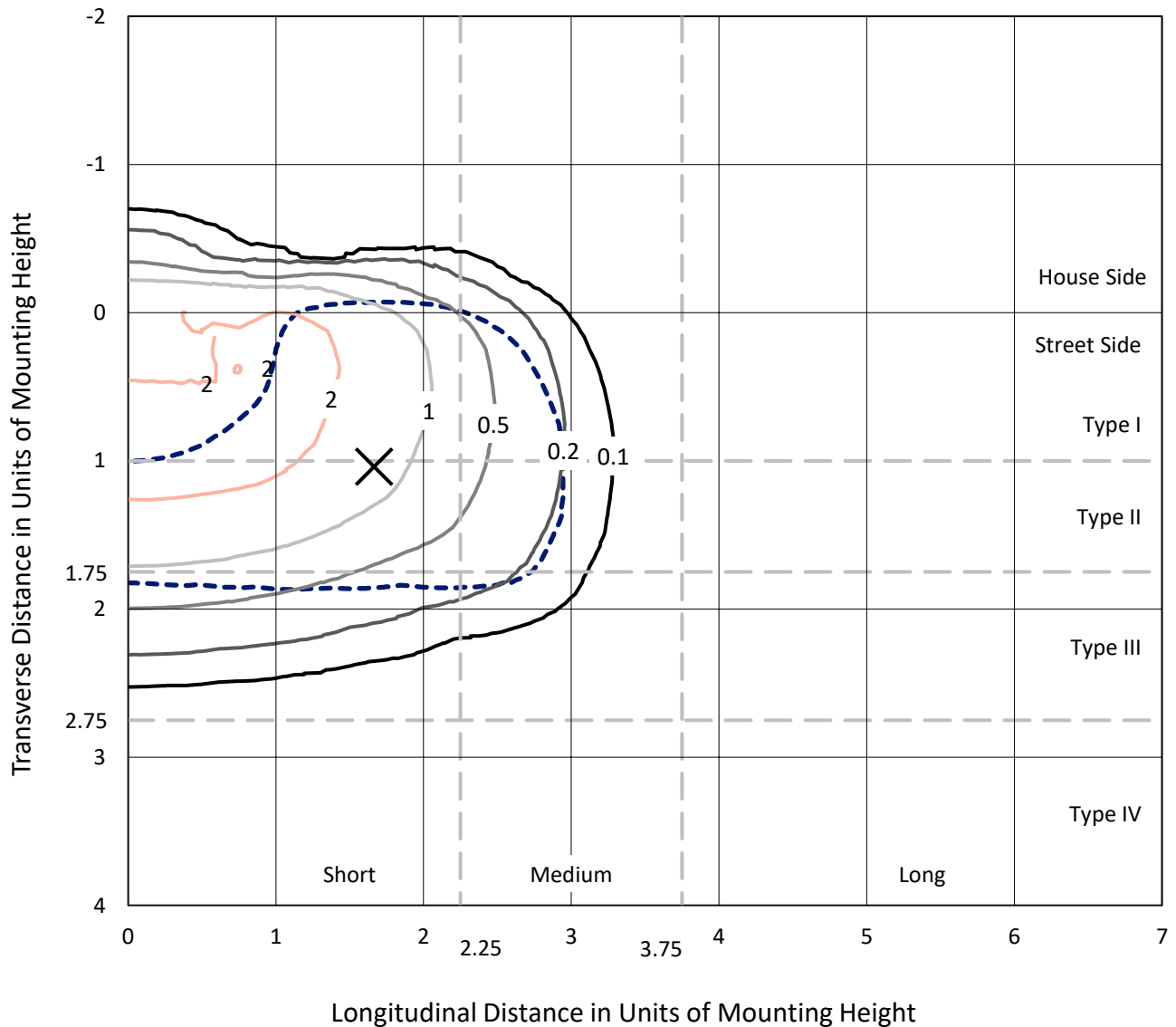
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

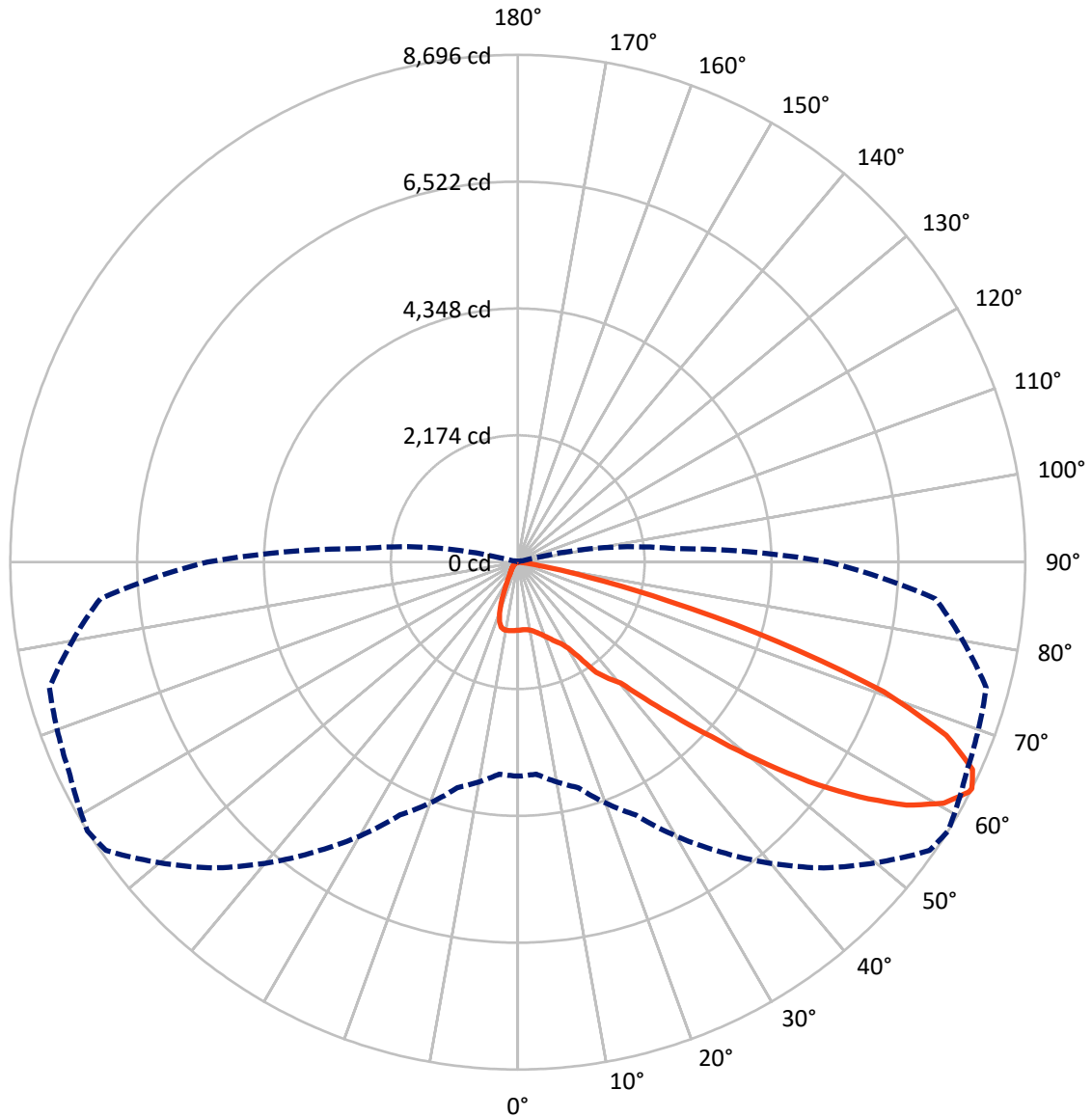
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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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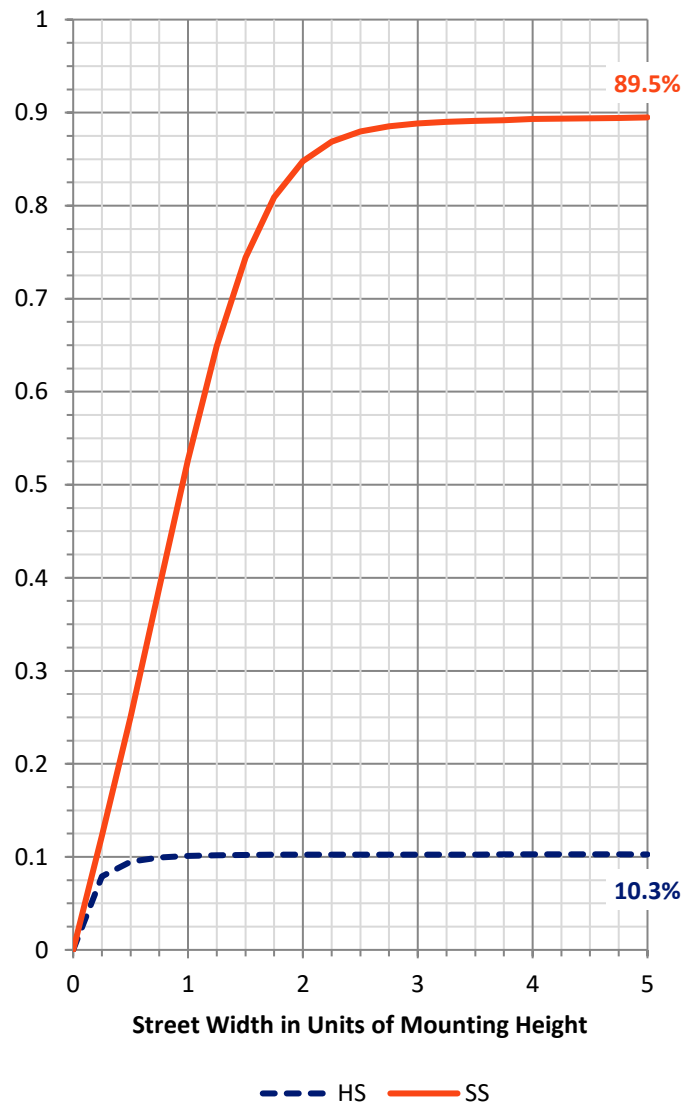
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1080.0	0.0	1080.0
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	9350.0	0.0	9350.0
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	10430.0	0.0	10430.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.3	1.0
10°-20°	297.7	2.9
20°-30°	516.7	5.0
30°-40°	949.5	9.1
40°-50°	1787.4	17.1
50°-60°	3057.3	29.3
60°-70°	2927.4	28.1
70°-80°	746.5	7.2
80°-90°	38.2	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°	10430.0	100.0
0°-180°	10430.0	100.0



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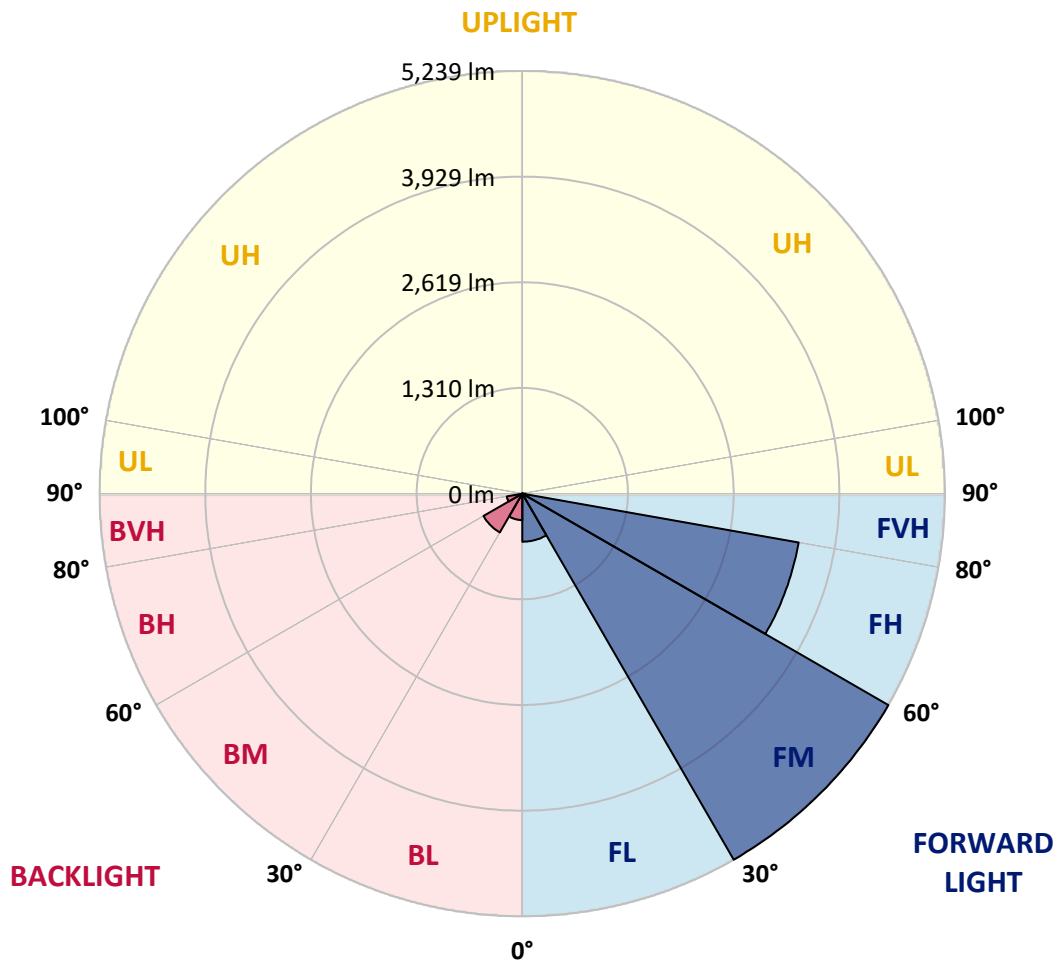
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	596.2	5.7			
FM	(30°-60°)	5238.8	50.2			
FH	(60°-80°)	3478.4	33.3			G2/5000
FVH	(80°-90°)	36.7	0.4			G1/100
BL	(0°-30°)	327.5	3.1	B1/500		
BM	(30°-60°)	555.5	5.3	B1/1000		
BH	(60°-80°)	195.5	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°	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7
2.5°	1138.6	1142.6	1146.5	1148.0	1153.5	1159.0	1163.0	1162.2	1168.5	1171.6	1171.6
5°	1093.1	1093.1	1103.3	1112.7	1128.4	1144.1	1159.0	1162.2	1174.0	1185.0	1188.9
7.5°	1054.6	1057.0	1064.8	1082.1	1103.3	1130.8	1160.6	1167.7	1188.1	1212.4	1222.6
10°	1036.5	1038.1	1048.3	1066.4	1093.1	1130.8	1172.4	1185.7	1217.2	1255.6	1269.8
12.5°	1032.6	1035.0	1045.2	1065.6	1096.2	1141.8	1198.3	1212.4	1258.0	1307.5	1328.7
15°	1039.7	1041.3	1051.5	1073.4	1107.2	1161.4	1232.9	1252.5	1306.7	1364.0	1391.5
17.5°	1064.8	1063.2	1070.3	1088.4	1126.1	1185.7	1274.5	1298.0	1361.6	1440.2	1458.2
20°	1171.6	1161.4	1155.1	1139.4	1154.3	1220.3	1324.7	1359.3	1437.8	1517.9	1530.5
22.5°	1401.7	1378.9	1334.2	1272.9	1225.8	1267.4	1385.2	1425.2	1526.5	1605.1	1605.1
25°	1694.6	1665.5	1620.8	1487.3	1371.8	1345.1	1453.5	1503.8	1623.1	1702.4	1676.5
27.5°	2061.3	2038.5	1951.4	1795.9	1619.2	1481.0	1532.8	1579.2	1708.7	1804.5	1750.3
30°	2359.7	2348.7	2277.2	2138.3	1943.5	1741.7	1680.5	1711.1	1822.6	1933.3	1877.6
32.5°	2611.8	2611.8	2538.7	2409.2	2227.0	2048.0	1930.9	1952.9	2059.7	2187.7	2084.1
35°	2889.0	2879.5	2820.6	2697.4	2493.2	2335.4	2287.5	2317.3	2413.9	2508.9	2253.7
37.5°	3180.3	3177.2	3115.9	2996.5	2830.1	2631.4	2519.1	2527.0	2576.4	2634.5	2452.4
40°	3496.8	3501.5	3421.4	3347.6	3190.5	2987.1	2772.0	2722.5	2768.8	2932.9	2819.1
42.5°	3870.5	3859.5	3825.0	3724.5	3598.1	3476.3	3218.0	3199.9	3240.8	3416.7	3293.4
45°	4304.8	4320.5	4260.8	4205.1	4120.2	4019.0	3803.0	3771.6	3816.4	4089.6	3914.5
47.5°	4739.8	4724.9	4763.4	4753.2	4798.7	4723.3	4532.5	4468.1	4575.7	4834.8	4577.3
50°	5071.2	5087.7	5167.8	5284.8	5480.3	5522.7	5339.8	5317.8	5365.7	5532.1	5170.1
52.5°	5286.4	5341.3	5467.0	5767.7	6120.3	6394.4	6255.4	6243.6	6224.0	6268.7	5737.1
55°	5426.9	5482.7	5646.8	6089.7	6696.7	7141.9	7149.0	7098.7	6969.2	6937.0	6267.1
57.5°	5340.5	5351.5	5585.5	6177.6	7016.3	7675.1	7906.0	7855.7	7616.2	7494.5	6735.2
60°	4800.3	4823.1	5148.9	5844.7	6877.3	7849.4	8407.8	8385.0	8122.7	7985.3	7099.5
62.5°	3843.1	3909.0	4244.3	5020.2	6231.0	7555.8	8611.1	8675.5	8471.4	8282.1	7214.2
63°	3667.2	3646.0	4000.1	4779.9	6059.8	7410.5	8614.3	8695.9	8487.1	8310.4	7182.8
65°	2714.6	2778.2	3008.3	3769.2	5042.9	6734.4	8420.3	8564.8	8429.0	8185.5	6834.9
67.5°	1524.2	1521.0	1775.5	2466.5	3529.7	5282.4	7613.9	7919.3	7891.1	7345.3	5665.6
70°	746.0	757.8	862.2	1278.4	2047.2	3644.4	6326.8	6656.6	6666.8	5769.3	3917.7
72.5°	337.7	343.2	417.8	622.7	1052.2	1940.4	4359.8	4674.6	4616.5	3676.6	2163.4
75°	178.3	190.0	230.1	313.3	507.3	800.2	2371.5	2676.2	2554.4	1679.7	796.3
77.5°	131.9	135.8	156.3	199.5	271.7	311.7	1023.2	1217.2	1140.2	607.8	263.8
80°	96.6	99.7	116.2	141.3	171.2	158.6	385.6	442.1	396.6	206.5	80.9
82.5°	58.9	59.7	84.8	105.2	107.6	88.7	127.2	136.6	142.9	116.2	44.0
85°	21.2	26.7	57.3	76.2	63.6	44.8	53.4	58.9	64.4	73.8	25.9
87.5°	2.4	3.1	27.5	36.9	18.1	16.5	19.6	22.0	23.6	27.5	12.6
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°	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7
2.5°	1174.7	1177.9	1175.5	1171.6	1170.8	1168.5	1163.8	1163.8	1163.8	1165.3	1163.8
5°	1192.0	1194.4	1188.9	1181.0	1172.4	1161.4	1149.6	1142.6	1141.8	1140.2	1136.3
7.5°	1225.0	1228.1	1215.6	1196.7	1173.2	1146.5	1121.3	1097.8	1086.8	1078.2	1078.2
10°	1272.9	1276.0	1250.9	1217.2	1170.0	1115.9	1056.2	1002.0	959.6	940.0	935.2
12.5°	1330.2	1331.8	1290.2	1231.3	1153.5	1049.1	921.9	803.3	720.9	683.2	679.2
15°	1393.0	1382.1	1327.1	1236.8	1106.4	911.7	691.8	546.5	460.9	435.8	445.2
17.5°	1456.7	1436.2	1355.4	1228.1	1000.4	691.8	464.9	373.0	346.3	339.2	339.2
20°	1516.3	1488.1	1375.8	1190.5	816.7	476.7	344.7	322.7	318.0	313.3	314.1
22.5°	1576.0	1532.8	1393.8	1106.4	608.6	340.8	308.6	301.5	295.3	289.0	288.2
25°	1634.1	1574.4	1400.9	950.9	414.6	292.9	281.9	272.5	259.9	252.9	251.3
27.5°	1694.6	1624.7	1396.2	754.6	302.3	262.3	251.3	237.9	223.0	210.4	210.4
30°	1810.8	1720.5	1379.7	542.6	254.4	230.9	216.7	195.5	179.0	166.5	165.7
32.5°	1969.4	1845.4	1323.2	381.6	226.2	203.4	182.2	158.6	141.3	131.9	131.9
35°	2110.8	1971.0	1217.2	281.1	203.4	176.7	150.8	128.0	114.6	108.4	106.0
37.5°	2325.9	2154.7	1071.1	228.5	181.4	153.1	126.4	105.2	94.2	89.5	89.5
40°	2648.7	2379.3	892.1	200.2	160.2	130.4	105.2	88.7	80.1	74.6	74.6
42.5°	3049.2	2654.2	710.7	179.8	140.6	112.3	87.9	75.4	67.5	63.6	62.8
45°	3553.3	2943.9	547.3	161.0	124.9	95.8	74.6	63.6	55.8	53.4	54.2
47.5°	4079.4	3199.1	424.0	144.5	108.4	80.9	63.6	55.0	49.5	46.3	46.3
50°	4528.6	3375.0	322.0	125.6	95.8	68.3	55.8	49.5	44.8	43.2	42.4
52.5°	4903.9	3426.1	246.6	109.2	84.0	58.9	49.5	44.8	40.8	38.5	38.5
55°	5223.5	3381.3	193.2	91.9	70.7	51.0	44.0	40.0	35.3	33.0	32.2
57.5°	5410.4	3237.6	147.6	76.2	57.3	42.4	38.5	33.8	28.3	24.3	24.3
60°	5504.7	3028.7	113.1	62.8	44.0	33.8	31.4	25.1	19.6	16.5	15.7
62.5°	5391.6	2751.5	85.6	49.5	33.0	25.1	21.2	18.1	12.6	9.4	9.4
63°	5321.7	2671.4	82.5	47.1	30.6	23.6	19.6	16.5	11.0	8.6	7.9
65°	4851.3	2322.0	67.5	37.7	24.3	16.5	13.3	11.8	7.9	3.9	3.1
67.5°	3852.5	1776.3	53.4	28.3	17.3	11.8	7.9	7.1	2.4	0.0	0.0
70°	2604.7	1147.3	41.6	20.4	11.8	7.1	3.9	3.1	0.8	0.0	0.0
72.5°	1358.5	588.2	32.2	14.9	7.1	4.7	2.4	0.8	0.0	0.0	0.0
75°	480.6	200.2	23.6	9.4	4.7	2.4	0.8	0.0	0.0	0.0	0.0
77.5°	145.3	74.6	14.9	7.1	3.1	1.6	0.0	0.0	0.0	0.0	0.0
80°	51.0	27.5	8.6	4.7	2.4	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	25.1	13.3	5.5	3.9	2.4	0.8	0.0	0.0	0.0	0.0	0.0
85°	14.1	8.6	4.7	3.9	2.4	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)