

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: P450966

Luminaire Tested: **GALN-SA1D-740-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450966  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1D-740-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7762 lumens  
Efficiency: N/A  
Efficacy: 119.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

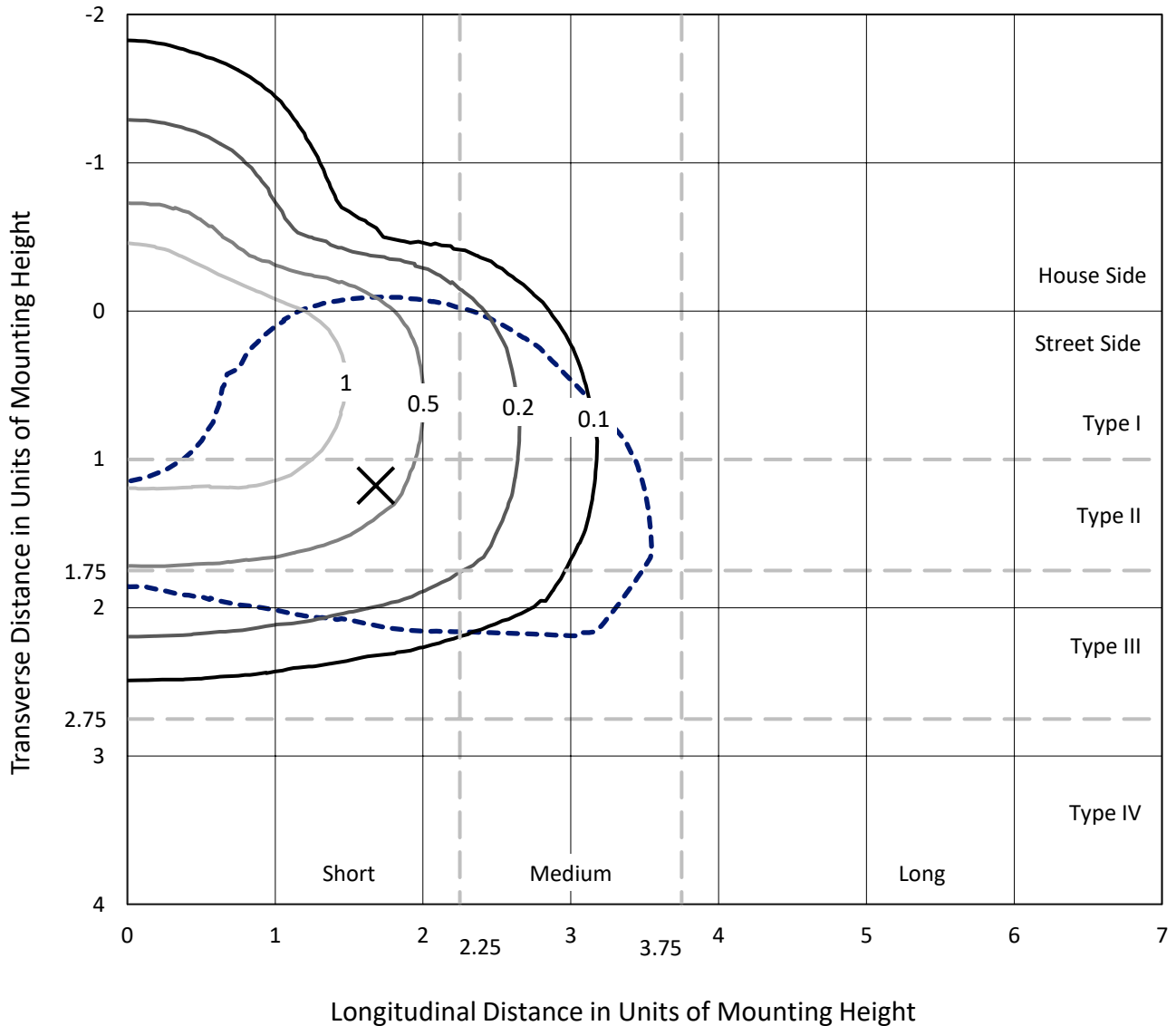
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

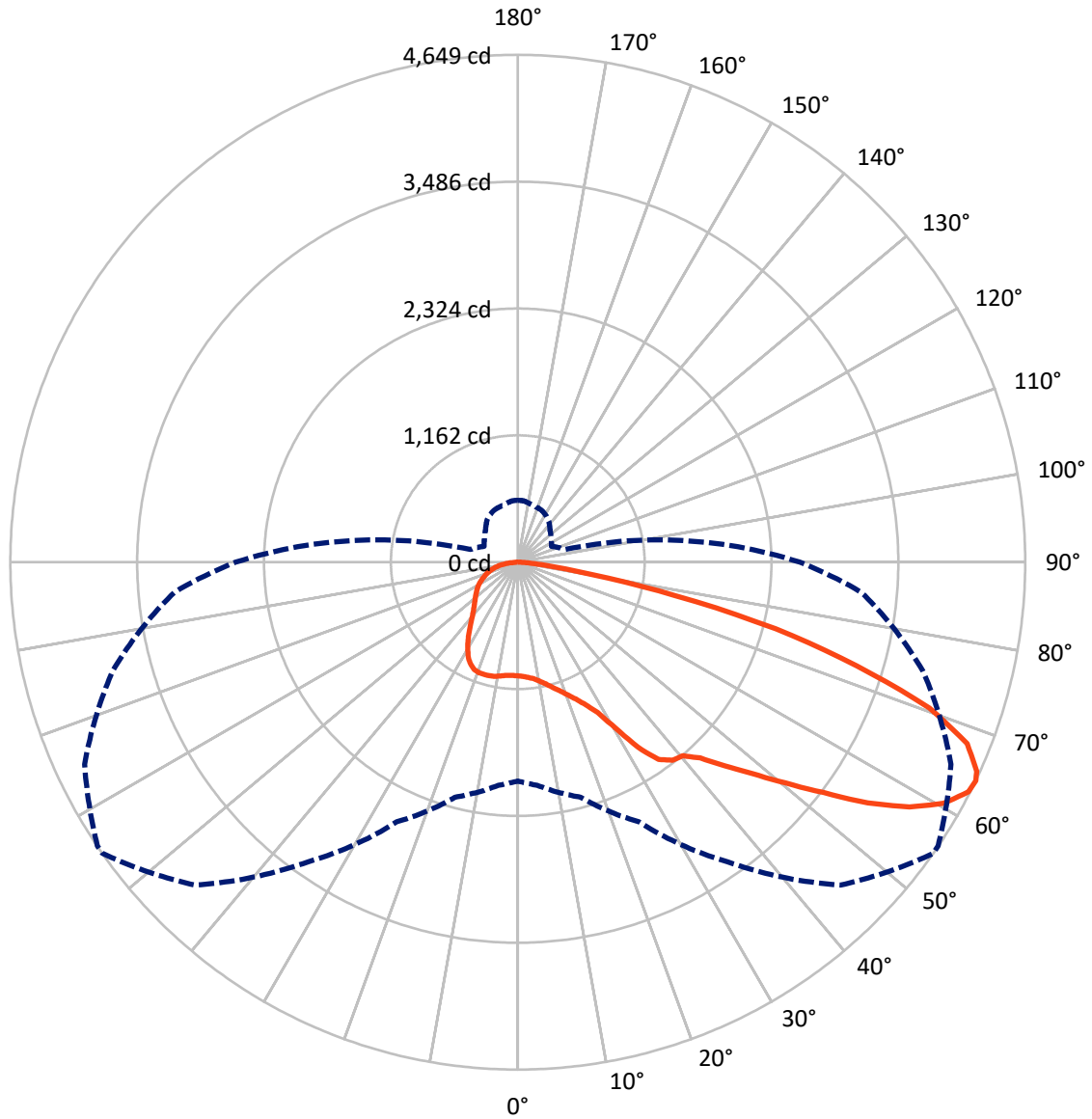
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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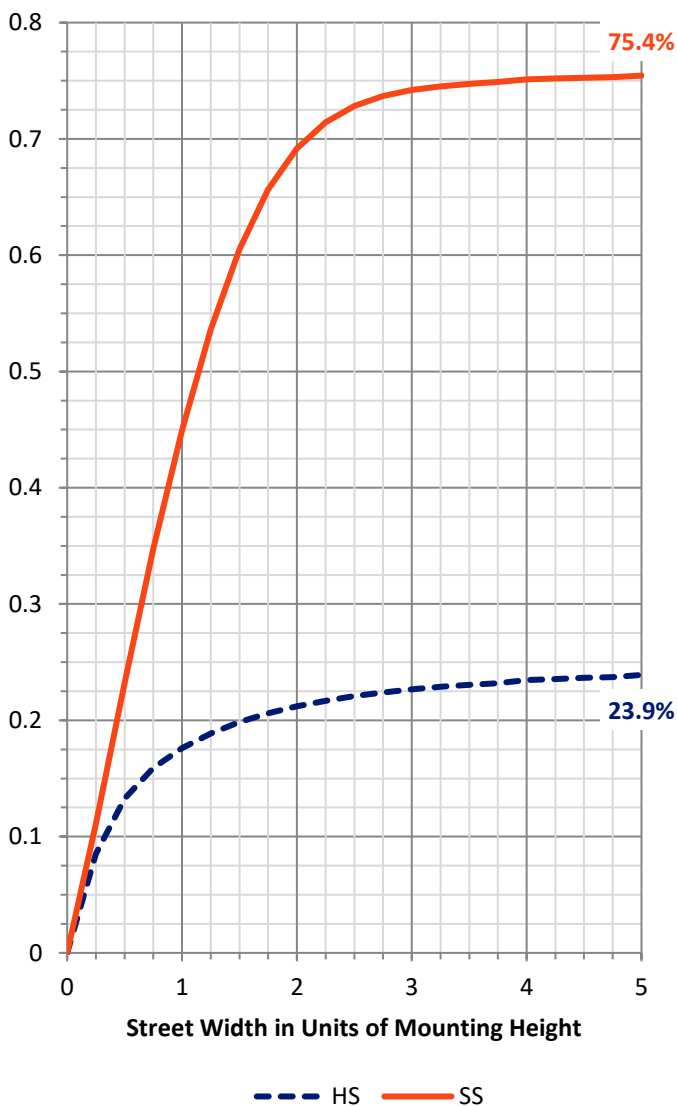
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1885.5	0.0	1885.5
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	5876.5	0.0	5876.5
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	7762.0	0.0	7762.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.3	1.3
10°-20°	319.6	4.1
20°-30°	569.1	7.3
30°-40°	875.5	11.3
40°-50°	1241.2	16.0
50°-60°	1796.5	23.1
60°-70°	1859.2	24.0
70°-80°	870.7	11.2
80°-90°	128.9	1.7
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°	7762.0	100.0
0°-180°	7762.0	100.0



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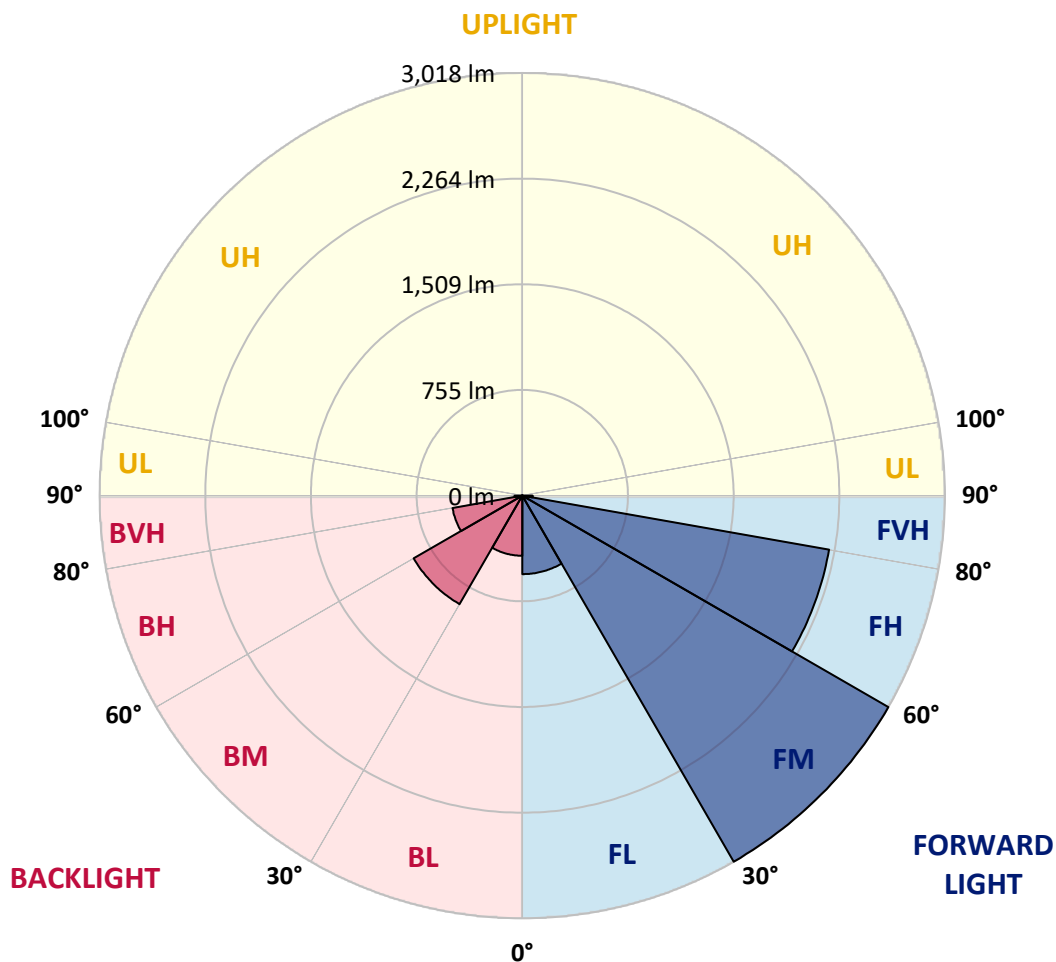
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	560.5	7.2			
FM	(30°-60°)	3018.1	38.9			
FH	(60°-80°)	2224.0	28.7			G2/5000
FVH	(80°-90°)	73.8	1.0			G1/100
BL	(0°-30°)	429.5	5.5	B1/500		
BM	(30°-60°)	895.1	11.5	B1/1000		
BH	(60°-80°)	505.8	6.5	B2/1000		G2/1000
BVH	(80°-90°)	55.1	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1041.4	1041.4	1041.4	1041.4	1041.4	1041.4	1041.4	1041.4	1041.4	1041.4	1041.4
2.5°	1053.1	1052.7	1054.0	1052.7	1053.5	1050.5	1049.2	1050.1	1048.8	1046.6	1042.7
5°	1066.1	1065.7	1066.1	1064.4	1065.2	1063.5	1060.5	1061.3	1059.2	1054.4	1048.8
7.5°	1088.2	1086.4	1086.4	1086.0	1084.3	1081.7	1079.5	1078.6	1076.5	1070.4	1061.8
10°	1116.7	1116.7	1117.1	1113.7	1115.8	1111.1	1108.9	1108.5	1101.1	1093.3	1081.2
12.5°	1154.4	1156.5	1155.2	1153.5	1152.6	1150.9	1143.5	1145.3	1137.0	1123.6	1108.9
15°	1201.1	1204.5	1202.4	1201.5	1199.3	1192.9	1189.8	1188.5	1177.7	1158.2	1138.8
17.5°	1263.0	1258.6	1256.9	1254.7	1245.6	1240.9	1235.7	1234.8	1225.3	1202.4	1172.1
20°	1317.0	1323.1	1319.6	1317.5	1308.4	1299.3	1295.4	1294.1	1285.9	1260.8	1212.3
22.5°	1381.5	1382.8	1384.1	1378.9	1374.6	1367.7	1360.7	1358.6	1355.5	1329.6	1270.3
25°	1450.3	1455.5	1451.2	1446.0	1440.8	1440.3	1446.8	1446.0	1444.7	1419.6	1347.3
27.5°	1562.4	1567.1	1568.4	1562.8	1542.9	1544.6	1559.3	1564.1	1584.0	1542.5	1446.4
30°	1625.5	1630.3	1641.1	1662.3	1693.9	1721.6	1757.1	1767.9	1786.9	1708.6	1564.1
32.5°	1664.5	1666.2	1685.7	1725.0	1819.8	1923.2	2019.7	2023.6	2035.7	1925.8	1671.8
35°	1725.9	1727.2	1742.8	1786.0	1897.2	2069.4	2218.7	2223.5	2213.5	1993.3	1722.0
37.5°	1801.6	1805.1	1815.0	1850.9	1983.8	2191.9	2301.3	2297.9	2209.6	2046.9	1810.7
40°	1911.9	1911.9	1900.3	1948.7	2075.1	2262.0	2330.3	2324.3	2300.9	2202.3	1945.7
42.5°	2009.3	2007.6	2035.3	2068.1	2189.3	2370.1	2451.9	2461.9	2500.4	2397.4	2099.3
45°	2136.1	2143.9	2159.4	2219.1	2383.6	2554.9	2660.5	2670.0	2724.5	2627.1	2278.8
47.5°	2264.1	2266.7	2315.6	2395.2	2624.1	2805.4	2891.9	2907.5	2957.3	2895.8	2472.3
50°	2355.0	2379.7	2458.0	2583.4	2872.0	3110.9	3178.4	3197.0	3284.8	3188.3	2697.7
52.5°	2451.1	2475.3	2570.9	2762.1	3156.7	3423.3	3506.3	3518.9	3610.2	3484.3	2928.3
55°	2533.3	2555.8	2664.4	2920.5	3383.4	3742.1	3892.7	3878.0	3921.7	3712.3	3106.1
57.5°	2546.7	2564.8	2701.6	3021.7	3553.9	4015.6	4231.5	4240.1	4189.5	3882.7	3252.8
60°	2442.8	2480.0	2637.1	3010.9	3630.5	4205.9	4484.1	4490.2	4346.6	3970.1	3311.2
62.5°	2258.9	2255.1	2445.0	2837.0	3523.2	4249.2	4633.0	4626.5	4408.0	3928.2	3254.5
64°	2005.0	2051.7	2229.1	2623.3	3350.1	4182.6	4648.6	4645.1	4378.6	3840.8	3158.0
65°	1850.1	1847.5	2022.7	2448.5	3177.9	4082.2	4620.9	4616.1	4317.1	3762.5	3083.2
67.5°	1335.6	1341.7	1514.8	1889.5	2583.4	3689.8	4440.4	4422.7	4074.8	3502.9	2798.5
70°	809.1	812.5	948.4	1253.4	1854.4	2982.8	4002.6	4003.5	3704.1	3115.2	2381.8
72.5°	426.2	435.3	489.8	711.7	1126.2	2092.8	3247.2	3324.2	3180.1	2658.7	1881.7
75°	237.1	238.4	276.9	350.9	574.6	1171.2	2440.7	2462.7	2517.7	2140.0	1391.5
77.5°	180.9	183.5	195.6	226.7	312.8	543.0	1477.1	1587.9	1774.4	1508.7	793.9
80°	146.7	149.3	159.7	178.3	208.1	257.4	686.2	745.9	949.7	669.8	309.8
82.5°	114.2	112.5	125.9	138.0	151.4	152.3	281.7	311.5	386.8	288.2	134.1
85°	84.8	84.8	95.6	93.0	97.8	89.1	124.2	137.2	154.9	122.4	62.3
87.5°	33.7	37.2	62.7	56.2	43.7	35.0	45.9	48.5	53.7	48.0	26.0
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°	1041.4	1041.4	1041.4	1041.4	1041.4	1041.4	1041.4	1041.4	1041.4	1041.4	1041.4
2.5°	1043.2	1044.5	1041.4	1039.3	1038.4	1037.1	1035.8	1036.2	1038.0	1039.7	1039.3
5°	1048.3	1048.8	1043.6	1041.0	1039.3	1037.5	1037.5	1038.8	1042.3	1044.9	1044.9
7.5°	1061.3	1061.3	1054.0	1049.2	1046.6	1043.6	1042.7	1043.2	1045.8	1049.2	1049.6
10°	1081.7	1079.9	1070.4	1063.1	1058.3	1050.9	1044.5	1041.0	1042.3	1044.5	1044.5
12.5°	1106.3	1101.6	1089.5	1079.5	1067.8	1054.0	1040.6	1033.6	1033.2	1035.4	1034.5
15°	1132.7	1127.5	1110.7	1092.5	1072.1	1051.8	1035.8	1025.9	1018.1	1015.9	1020.7
17.5°	1163.4	1152.6	1129.3	1104.2	1073.9	1047.5	1022.4	1002.1	988.2	984.3	985.6
20°	1200.6	1186.4	1154.8	1115.4	1072.6	1031.9	993.0	965.7	943.2	936.3	937.2
22.5°	1252.1	1227.5	1181.2	1121.0	1061.8	1002.5	948.4	912.9	885.7	874.8	881.3
25°	1310.5	1283.7	1206.3	1119.7	1033.6	955.3	895.6	849.3	824.7	808.7	812.1
27.5°	1391.0	1343.4	1233.1	1108.1	993.4	897.8	828.6	784.9	762.4	754.1	758.0
30°	1494.0	1420.9	1262.1	1076.5	929.8	825.1	761.1	732.5	719.1	708.7	712.2
32.5°	1568.4	1475.4	1268.6	1023.3	861.0	758.9	715.2	694.0	679.3	669.3	671.5
35°	1621.6	1521.7	1265.5	957.9	789.2	704.4	678.9	661.5	637.7	616.1	612.2
37.5°	1693.0	1579.7	1243.5	886.5	718.2	667.6	649.4	617.4	583.2	554.2	552.9
40°	1802.5	1647.6	1196.3	802.6	657.7	640.3	618.3	576.7	540.0	516.6	514.9
42.5°	1915.4	1710.3	1132.3	714.3	607.9	611.8	585.0	543.9	521.4	506.2	504.5
45°	2053.4	1778.3	1063.1	637.7	571.1	585.0	556.0	532.2	518.8	508.8	506.2
47.5°	2202.7	1847.9	985.2	569.0	540.0	560.3	543.9	533.0	525.7	518.8	515.7
50°	2363.7	1925.8	912.1	513.6	511.8	534.8	542.6	538.7	534.3	532.2	529.6
52.5°	2540.2	2005.4	850.6	474.6	487.2	516.6	543.0	546.0	546.0	544.7	543.0
55°	2659.6	2060.8	788.3	443.0	462.1	501.9	542.1	553.8	558.1	556.4	554.7
57.5°	2747.9	2091.1	710.0	415.8	440.9	487.6	537.4	554.7	559.0	561.2	560.3
60°	2766.0	2062.9	607.5	387.2	418.0	466.8	520.1	541.7	547.3	560.7	562.0
62.5°	2684.3	1976.4	505.4	359.1	389.8	435.3	496.7	527.0	538.2	559.0	561.2
64°	2583.9	1879.5	448.7	341.4	371.7	417.5	485.0	523.1	537.8	565.5	567.2
65°	2510.3	1809.0	413.2	330.1	360.0	405.8	478.5	524.4	541.7	575.4	578.0
67.5°	2239.5	1566.2	341.8	303.7	332.3	385.9	479.8	535.2	540.8	579.3	578.9
70°	1853.1	1246.9	286.4	279.5	305.5	369.9	474.6	517.9	518.3	543.9	537.8
72.5°	1387.6	921.6	248.4	254.4	275.6	331.9	448.2	494.5	487.2	490.6	484.6
75°	953.2	609.6	213.7	227.6	244.5	293.3	411.0	449.1	437.4	433.1	428.8
77.5°	508.8	337.0	177.8	201.2	212.4	253.5	358.7	395.5	383.3	366.5	360.8
80°	205.9	158.8	143.2	166.6	173.1	204.2	298.5	321.5	312.4	283.0	273.4
82.5°	103.4	95.2	112.5	131.1	131.5	145.8	222.0	243.6	223.3	187.3	179.1
85°	54.1	55.8	77.4	92.2	81.3	78.7	133.3	147.5	135.4	117.7	106.0
87.5°	19.5	22.5	40.7	40.2	28.6	15.1	29.4	14.3	7.8	4.8	6.1
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)