

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: P451665

Luminaire Tested: **GALN-SA2C-740-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451665  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
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-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10181 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

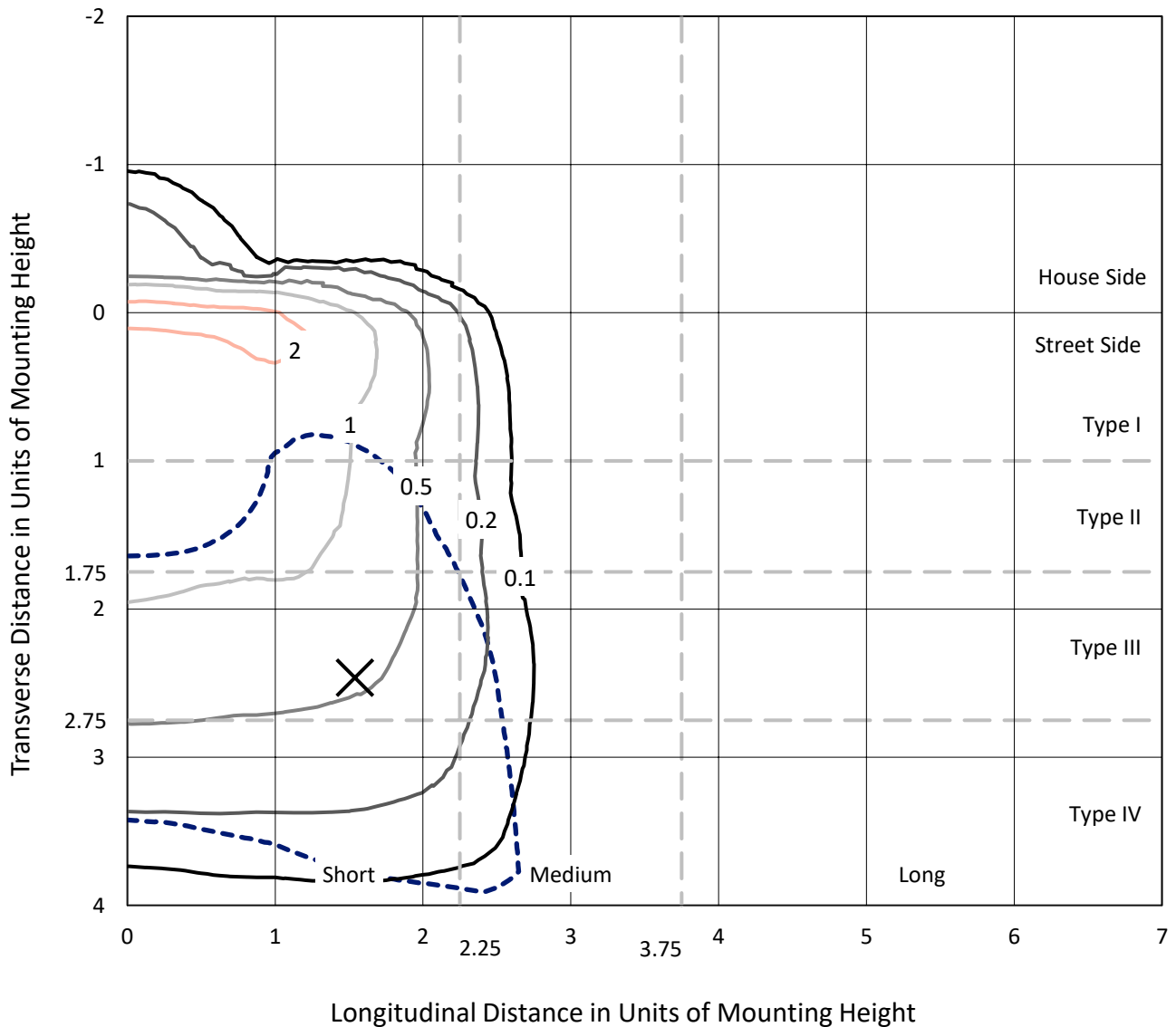
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

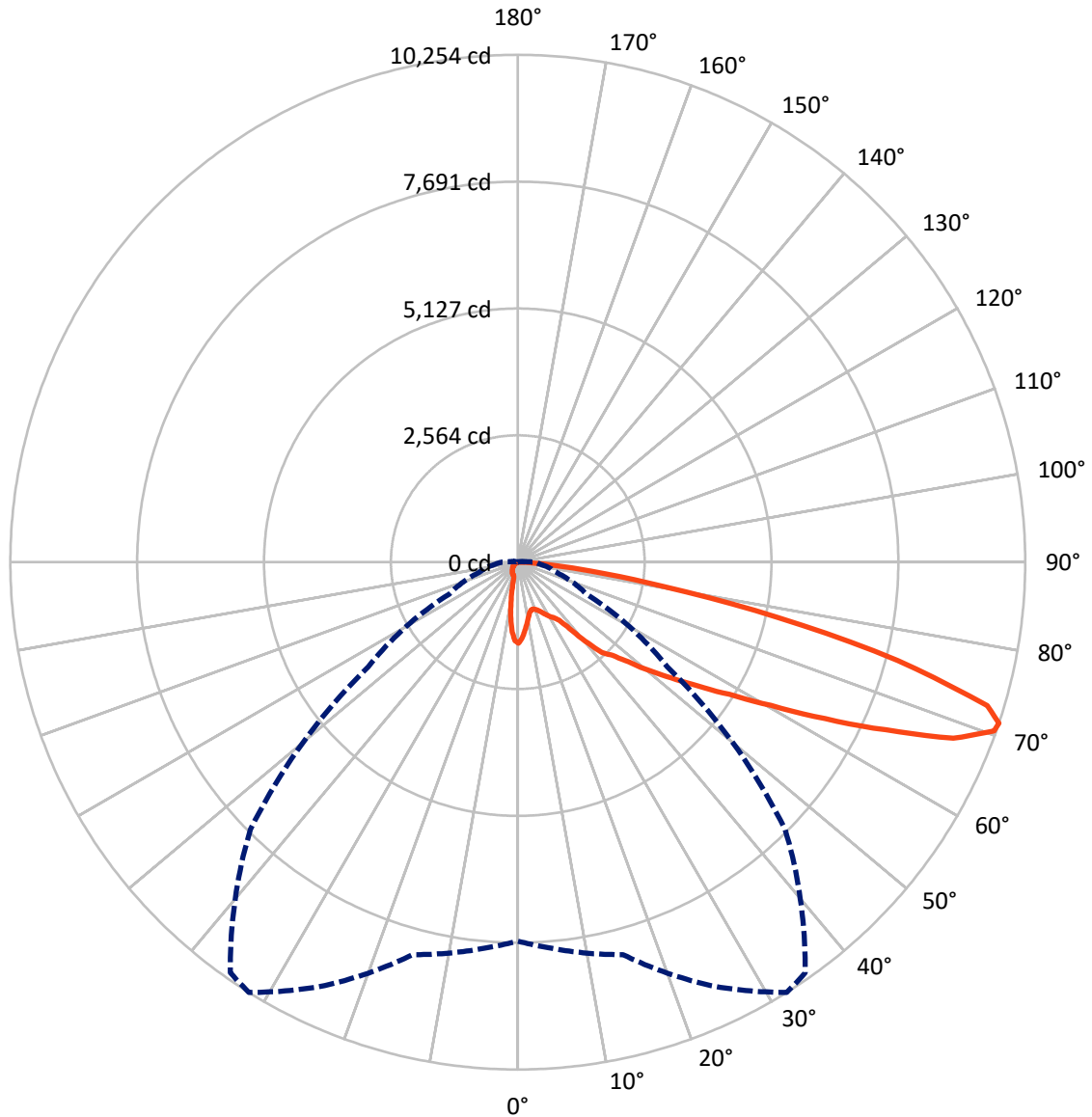
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical



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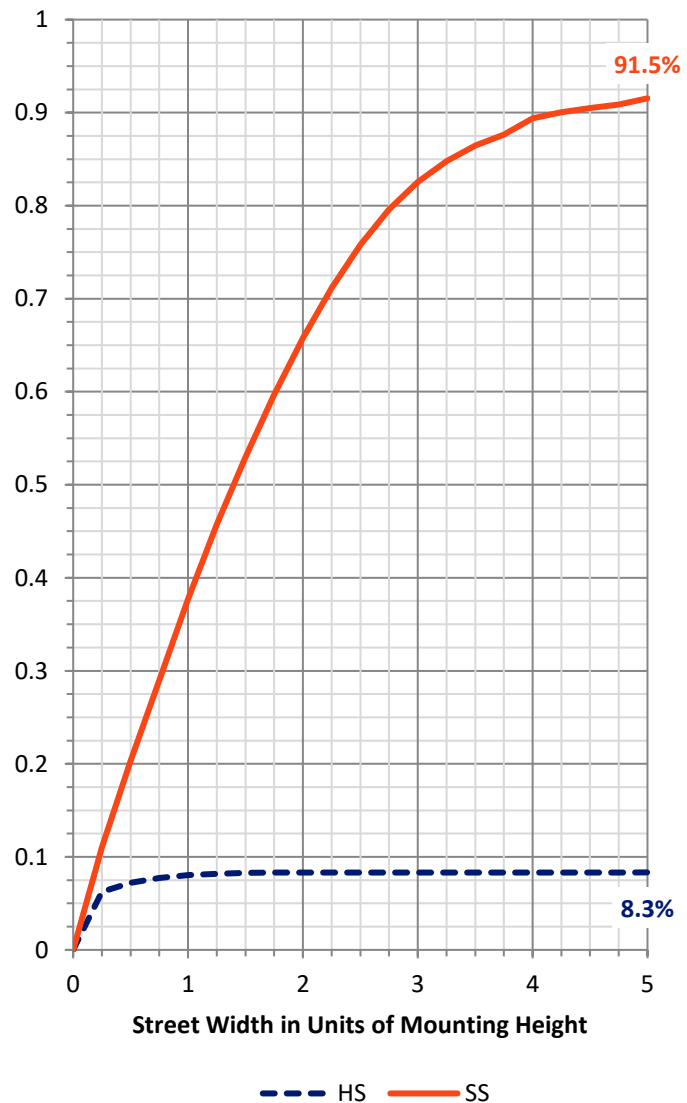
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	852.8	0.0	852.8
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	9328.2	0.0	9328.2
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	10181.0	0.0	10181.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.1	1.3
10°-20°	288.9	2.8
20°-30°	449.5	4.4
30°-40°	748.9	7.4
40°-50°	1393.0	13.7
50°-60°	2236.5	22.0
60°-70°	3008.2	29.5
70°-80°	1784.8	17.5
80°-90°	138.0	1.4
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°	10181.0	100.0
0°-180°	10181.0	100.0



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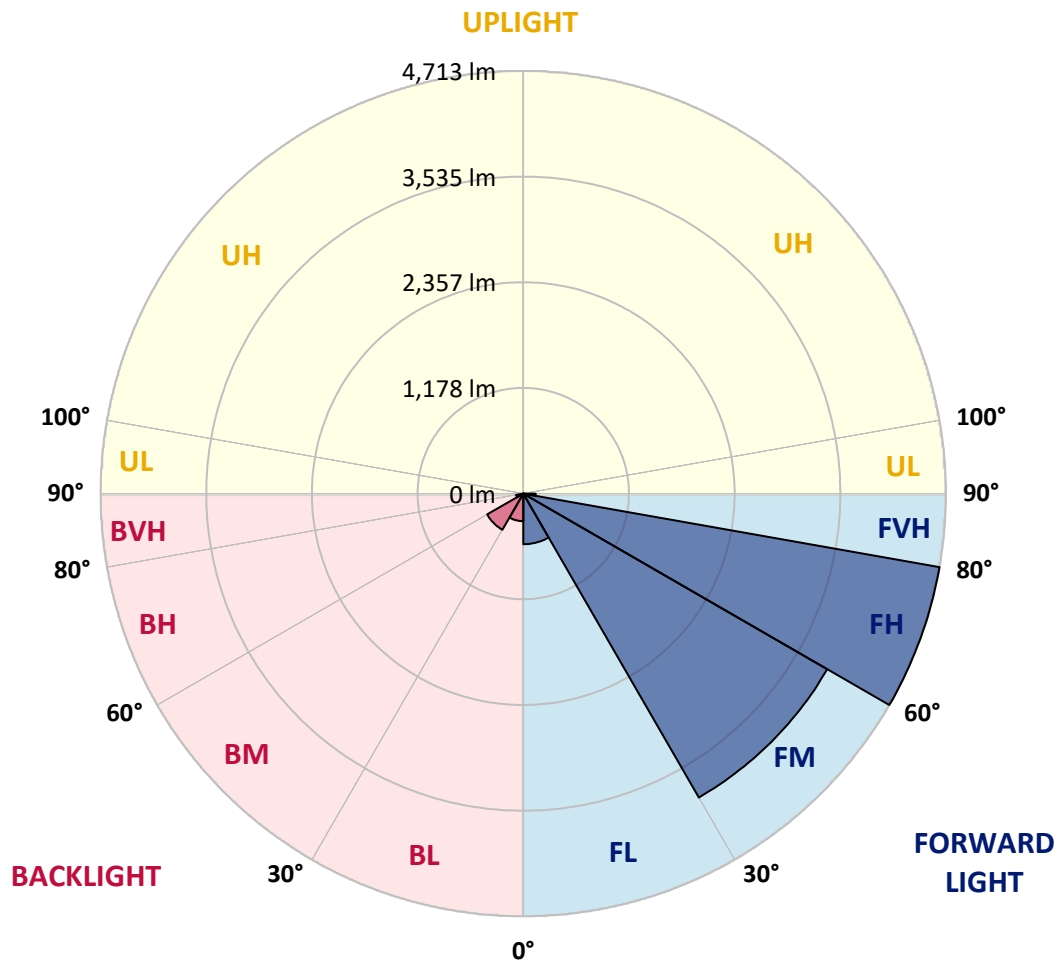
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	564.3	5.5			
FM (30°-60°)	3913.2	38.4			
FH (60°-80°)	4713.3	46.3			G2/5000
FVH (80°-90°)	137.4	1.3			G2/225
BL (0°-30°)	307.3	3.0	B1/500		
BM (30°-60°)	465.2	4.6	B1/1000		
BH (60°-80°)	79.8	0.8	B0/110		G0/110
BVH (80°-90°)	0.5	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3
2.5°	1518.5	1534.1	1531.8	1537.2	1550.5	1556.0	1570.8	1587.2	1609.9	1625.5	1635.7
5°	1359.8	1371.6	1373.1	1400.5	1413.8	1428.6	1472.4	1520.0	1573.2	1615.4	1643.5
7.5°	1190.2	1196.5	1209.0	1244.9	1278.6	1293.4	1359.8	1442.7	1526.3	1605.2	1656.0
10°	1050.3	1057.4	1080.0	1118.3	1149.6	1169.1	1261.4	1365.3	1482.5	1599.8	1674.0
12.5°	970.6	974.5	983.1	1017.5	1057.4	1078.5	1177.7	1296.5	1447.4	1602.1	1704.5
15°	965.2	963.6	953.4	967.5	1003.5	1025.3	1122.2	1249.6	1416.1	1609.9	1740.4
17.5°	994.1	990.2	965.9	965.9	995.6	1013.6	1098.8	1224.6	1400.5	1627.9	1791.2
20°	1038.6	1032.4	992.5	989.4	1018.3	1037.1	1112.9	1226.2	1403.6	1661.5	1859.2
22.5°	1094.9	1087.9	1027.7	1029.2	1060.5	1079.3	1153.5	1254.3	1423.1	1702.9	1931.9
25°	1168.4	1160.5	1089.4	1086.3	1119.1	1135.5	1213.7	1304.3	1450.5	1754.5	2027.2
27.5°	1266.0	1249.6	1164.5	1159.8	1194.9	1216.0	1286.4	1371.6	1498.9	1825.6	2155.4
30°	1346.5	1328.6	1247.3	1234.8	1272.3	1288.7	1361.4	1462.2	1594.3	1949.9	2332.8
32.5°	1452.0	1425.5	1330.1	1297.3	1337.2	1358.3	1470.0	1631.0	1735.7	2081.2	2543.8
35°	1689.6	1673.2	1556.8	1441.9	1439.5	1466.1	1630.2	1801.4	1881.1	2285.9	2831.4
37.5°	2029.6	2017.9	1894.4	1740.4	1695.9	1683.4	1824.8	1988.9	2113.2	2567.3	3165.9
40°	2424.2	2396.9	2283.6	2153.1	2095.2	2058.5	2054.6	2267.9	2416.4	2949.4	3514.5
42.5°	2707.2	2657.1	2519.6	2510.2	2497.7	2459.4	2348.4	2675.9	2808.0	3360.5	3887.2
45°	3004.1	2928.3	2723.6	2688.4	2683.7	2681.4	2792.3	3158.9	3234.7	3806.0	4270.2
47.5°	3234.7	3174.5	3006.5	2990.8	3010.4	3063.5	3379.3	3671.5	3655.9	4203.0	4591.4
50°	3541.8	3496.5	3309.7	3339.4	3440.2	3527.0	4041.2	4230.3	4002.1	4515.6	4825.0
52.5°	3904.4	3820.8	3647.3	3727.8	3882.5	4027.1	4743.8	4719.5	4245.2	4750.8	4999.3
55°	4218.6	4159.2	4099.8	4183.4	4414.8	4595.3	5378.4	5086.1	4421.8	4939.9	5075.9
57.5°	4750.0	4736.0	4675.0	4760.2	5040.7	5228.3	5946.5	5370.5	4535.1	5038.4	4986.0
60°	5536.2	5513.6	5400.2	5508.9	5874.6	6169.2	6470.1	5626.1	4560.9	5000.1	4727.4
62.5°	6481.8	6404.5	6307.6	6467.8	6969.5	7099.2	6963.3	5777.7	4464.8	4695.3	4103.7
65°	7365.0	7285.2	7287.6	7625.2	8171.5	8259.8	7538.4	5755.0	4183.4	3931.8	3026.8
67.5°	8041.0	8027.7	8123.0	8781.8	9496.1	9435.2	8052.7	5415.9	3349.6	2548.5	1608.3
70°	8075.3	8101.1	8374.7	9486.8	10212.0	10115.1	8008.9	4402.2	2088.2	1172.3	633.8
71°	7659.6	7833.1	8211.3	9464.9	10254.2	10128.4	7640.0	3687.2	1531.8	817.5	457.2
72.5°	6527.2	6618.6	7436.1	8907.7	9920.5	9651.7	6704.6	2584.5	980.8	500.2	262.6
75°	3594.9	3820.0	4979.8	6988.3	7934.7	7698.7	4369.4	1227.8	489.2	273.5	108.6
77.5°	1711.5	1667.7	2429.7	4156.1	5379.9	5367.4	2201.5	545.5	285.3	185.2	54.7
80°	489.2	550.2	930.0	1975.7	2986.9	3019.8	845.6	263.4	197.7	144.6	28.1
82.5°	147.7	150.8	341.5	873.7	1485.7	1400.5	317.3	134.4	142.2	114.9	16.4
85°	25.8	32.0	100.8	307.9	566.6	429.8	79.7	64.1	93.8	75.8	9.4
87.5°	1.6	2.3	33.6	35.2	50.0	28.9	14.1	9.4	20.3	20.3	5.5
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°	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3	1637.3
2.5°	1642.7	1647.4	1644.3	1637.3	1625.5	1611.5	1592.7	1577.1	1563.8	1556.8	1565.4
5°	1652.9	1659.1	1643.5	1608.3	1555.2	1497.4	1431.7	1380.9	1341.1	1328.6	1323.9
7.5°	1668.5	1672.4	1630.2	1552.1	1439.5	1302.8	1183.2	1082.4	1004.2	980.8	946.4
10°	1688.8	1686.5	1606.8	1461.4	1263.7	1058.2	872.9	735.4	631.5	593.9	590.8
12.5°	1720.1	1707.6	1577.1	1337.9	1054.3	785.4	556.4	435.3	369.7	347.8	343.1
15°	1759.2	1729.5	1530.2	1193.4	807.3	507.2	343.1	306.4	297.8	296.2	294.6
17.5°	1805.3	1758.4	1468.5	1016.0	567.4	329.0	286.8	286.0	286.8	285.3	284.5
20°	1867.8	1788.9	1395.0	805.7	375.1	277.4	273.5	273.5	274.3	273.5	273.5
22.5°	1934.2	1824.8	1304.3	615.0	282.9	263.4	262.6	264.2	265.7	264.9	264.9
25°	2016.3	1871.7	1184.8	421.2	253.2	251.6	252.4	255.6	258.7	259.5	258.7
27.5°	2135.1	1929.5	1056.6	289.9	232.1	233.7	241.5	249.3	254.0	254.8	254.8
30°	2268.7	1993.6	889.4	235.2	214.9	214.9	224.3	239.1	249.3	250.9	251.6
32.5°	2440.7	2067.9	704.1	211.8	198.5	196.9	205.5	223.5	242.3	247.7	247.7
35°	2653.2	2155.4	523.6	196.9	186.8	182.9	187.6	202.4	226.6	242.3	243.8
37.5°	2902.5	2238.2	382.9	183.7	175.8	170.4	173.5	185.2	204.8	228.2	234.5
40°	3133.1	2311.7	286.0	172.7	164.9	161.0	163.3	168.8	185.2	207.1	211.0
42.5°	3384.7	2368.8	227.4	161.0	154.0	152.4	152.4	154.7	165.7	178.2	179.0
45°	3635.6	2389.1	190.7	146.9	142.2	143.8	143.0	141.5	146.1	144.6	144.6
47.5°	3814.6	2364.8	157.9	133.6	133.6	136.0	132.1	126.6	124.3	114.9	115.7
50°	3937.2	2276.5	129.7	118.0	124.3	127.4	119.6	111.0	102.4	92.2	89.9
52.5°	3988.0	2119.5	106.3	97.7	110.2	114.1	104.7	94.6	81.3	72.7	70.3
55°	3955.2	1925.6	88.3	79.7	93.0	97.7	88.3	76.6	61.7	52.4	50.8
57.5°	3810.6	1694.3	75.0	63.3	74.2	77.4	71.1	58.6	43.8	34.4	34.4
60°	3560.6	1455.2	61.0	50.0	55.5	60.2	53.9	42.2	29.7	21.1	19.5
62.5°	3053.4	1181.6	49.2	39.1	39.1	43.0	37.5	30.5	18.8	10.9	10.2
65°	2204.6	810.4	39.1	28.9	28.1	28.1	23.4	20.3	10.9	4.7	3.1
67.5°	1198.1	457.2	31.3	21.9	19.5	18.8	14.8	11.7	4.7	0.8	0.0
70°	471.3	175.8	24.2	14.8	12.5	11.7	7.8	5.5	3.1	0.0	0.0
71°	319.6	121.1	21.1	12.5	10.2	8.6	6.3	4.7	2.3	0.0	0.0
72.5°	182.9	75.0	16.4	9.4	7.8	6.3	4.7	3.1	2.3	0.0	0.0
75°	79.7	38.3	10.2	7.0	5.5	3.9	3.1	2.3	0.8	0.0	0.0
77.5°	40.6	21.1	7.0	5.5	3.1	2.3	1.6	0.8	0.0	0.0	0.0
80°	22.7	10.9	4.7	3.1	2.3	1.6	0.8	0.8	0.0	0.0	0.0
82.5°	12.5	6.3	2.3	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.8	3.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	1.6	0.0	0.0	0.0	0.0	0.8	0.8	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)