

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: P450749

Luminaire Tested: **GALN-SA1C-750-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450749  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1C-750-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5885 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

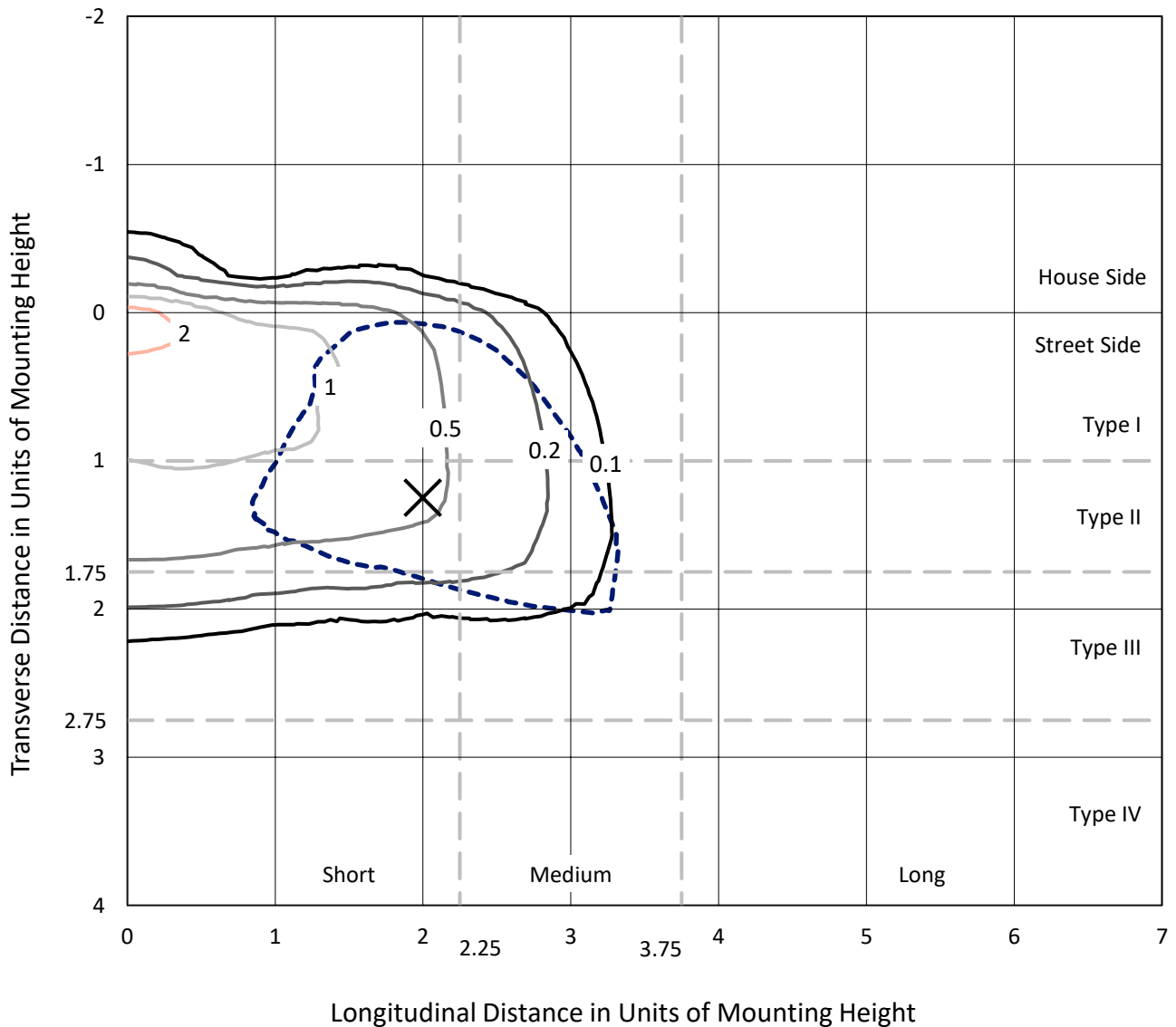
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

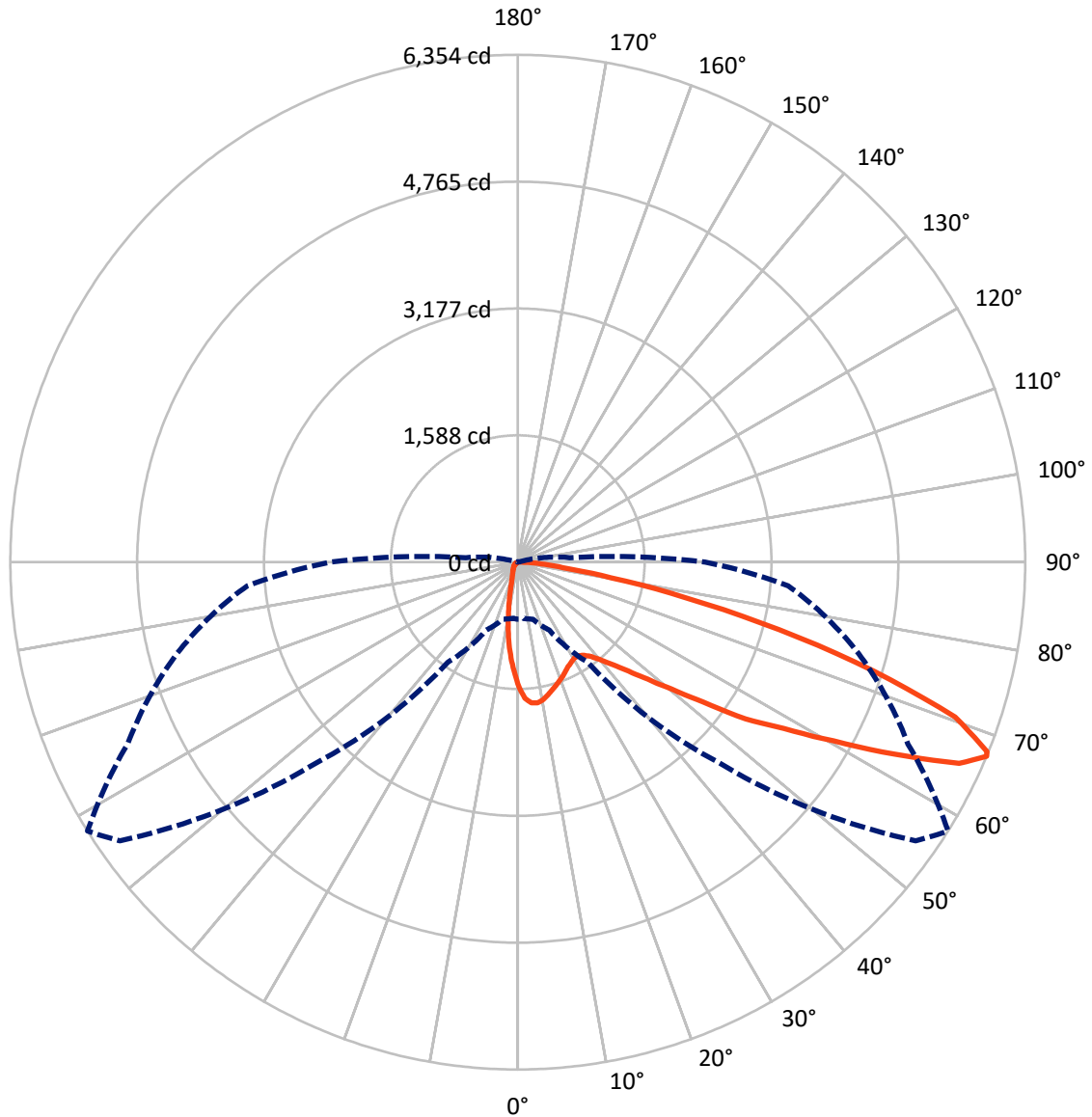
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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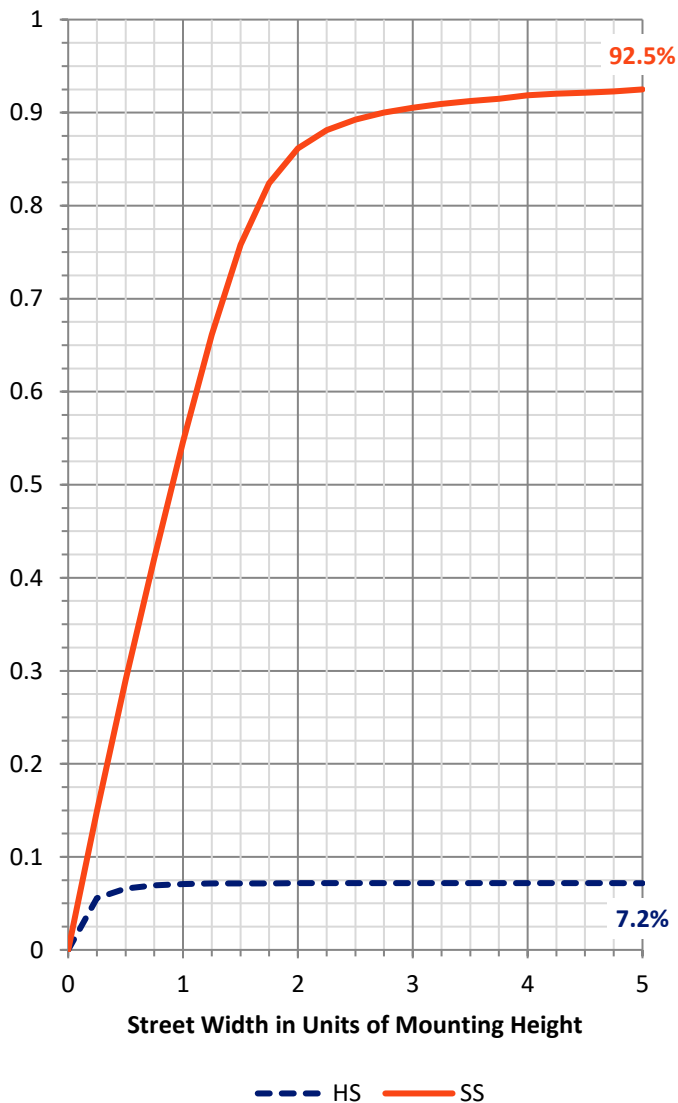
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	424.7	0.0	424.7
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	5460.3	0.0	5460.3
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	5885.0	0.0	5885.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.6	2.2
10°-20°	273.4	4.6
20°-30°	370.5	6.3
30°-40°	513.9	8.7
40°-50°	819.5	13.9
50°-60°	1416.6	24.1
60°-70°	1618.3	27.5
70°-80°	674.7	11.5
80°-90°	71.5	1.2
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°	5885.0	100.0
0°-180°	5885.0	100.0

**Coefficient of Utilization**



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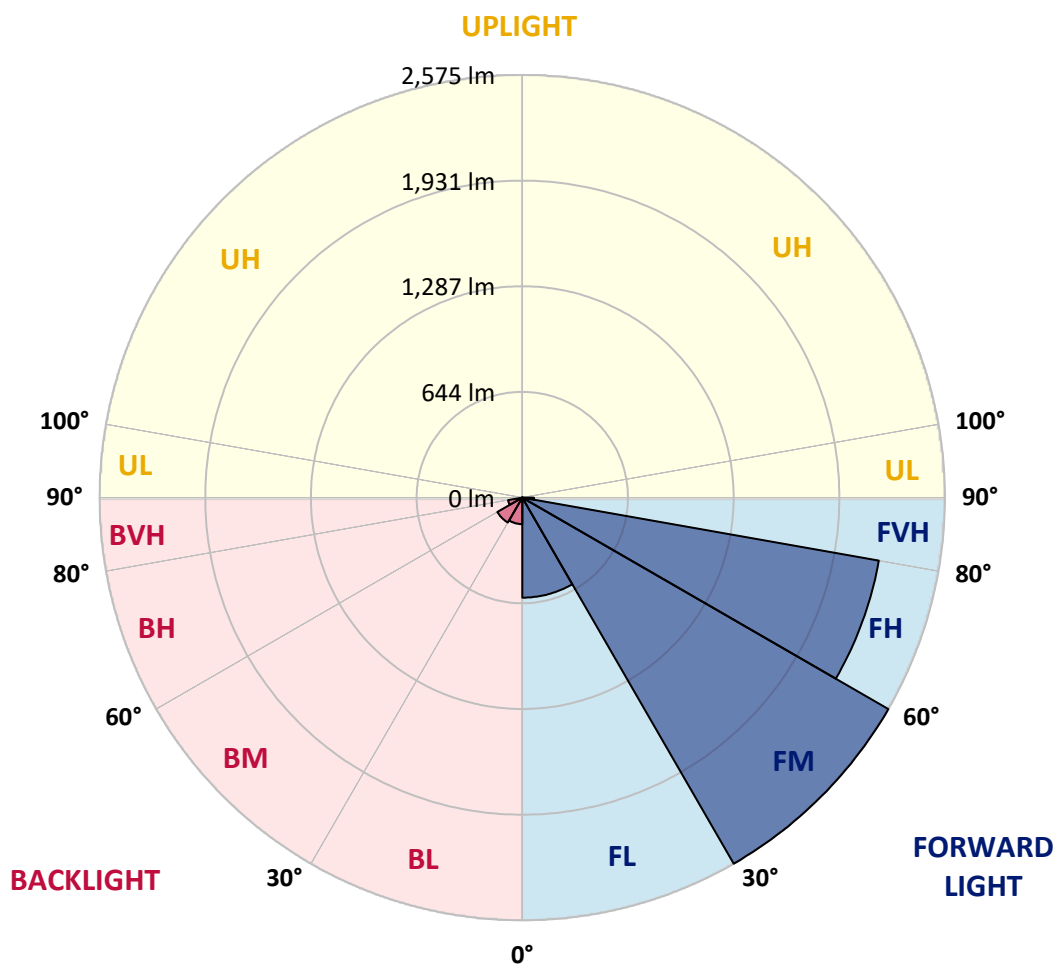
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	609.2	10.4			
FM	(30°-60°)	2574.9	43.8			
FH	(60°-80°)	2205.1	37.5			G2/5000
FVH	(80°-90°)	71.0	1.2			G1/100
BL	(0°-30°)	161.3	2.7	B1/500		
BM	(30°-60°)	175.1	3.0	B0/220		
BH	(60°-80°)	87.8	1.5	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1560.1	1560.1	1560.1	1560.1	1560.1	1560.1	1560.1	1560.1	1560.1	1560.1	1560.1
2.5°	1810.6	1813.3	1803.1	1794.8	1773.6	1750.8	1720.5	1704.4	1676.9	1629.3	1576.6
5°	1853.0	1856.6	1855.0	1853.0	1844.8	1822.8	1784.2	1770.1	1729.6	1652.1	1556.9
7.5°	1758.7	1771.6	1773.2	1788.5	1803.1	1805.1	1790.5	1779.9	1742.5	1651.7	1521.9
10°	1633.6	1642.3	1654.8	1672.5	1707.5	1736.6	1750.8	1749.2	1727.6	1639.5	1481.0
12.5°	1507.4	1512.1	1531.4	1561.6	1604.5	1654.0	1691.8	1699.3	1699.7	1624.9	1446.8
15°	1398.8	1396.9	1411.8	1446.8	1507.0	1569.1	1636.7	1648.5	1667.4	1610.8	1414.9
17.5°	1306.0	1316.2	1318.6	1357.1	1412.6	1493.2	1579.3	1600.2	1637.9	1598.6	1388.6
20°	1248.6	1254.1	1259.2	1280.8	1330.8	1415.7	1525.5	1554.2	1610.4	1587.6	1359.1
22.5°	1231.7	1235.2	1230.9	1237.6	1273.0	1348.5	1466.9	1505.0	1584.0	1577.4	1335.1
25°	1244.7	1248.2	1238.0	1230.1	1242.3	1293.8	1410.2	1456.6	1562.8	1575.4	1317.0
27.5°	1276.1	1282.8	1268.7	1254.5	1247.4	1264.3	1365.8	1419.7	1548.3	1584.8	1308.8
30°	1325.3	1329.2	1318.6	1301.3	1285.2	1268.3	1342.6	1394.1	1544.3	1606.9	1308.0
32.5°	1378.8	1387.0	1381.1	1369.7	1348.9	1308.8	1349.3	1394.9	1553.8	1638.7	1317.8
35°	1444.8	1454.3	1459.8	1457.4	1430.7	1380.7	1391.7	1430.3	1578.9	1697.3	1344.6
37.5°	1509.7	1518.0	1549.0	1559.7	1536.1	1488.9	1474.3	1499.9	1634.4	1774.0	1392.9
40°	1584.0	1595.1	1638.7	1679.2	1667.8	1618.3	1591.5	1612.8	1719.3	1889.6	1484.6
42.5°	1655.2	1674.9	1741.4	1812.9	1823.5	1768.1	1750.4	1757.5	1845.2	2056.0	1612.4
45°	1756.3	1774.8	1860.5	1957.6	2007.6	1964.3	1946.2	1945.1	2017.8	2289.9	1819.6
47.5°	1902.2	1918.7	2019.8	2115.7	2204.6	2210.5	2176.3	2188.1	2234.9	2563.7	2073.7
50°	2081.1	2120.1	2186.5	2286.4	2405.2	2501.1	2511.7	2496.0	2536.1	2880.6	2378.8
52.5°	2341.1	2356.0	2417.0	2499.2	2638.4	2801.2	2927.4	2905.8	2893.2	3182.6	2687.1
55°	2534.9	2555.0	2649.8	2762.6	2966.7	3181.5	3455.2	3462.6	3303.8	3472.9	2988.8
57.5°	2476.4	2507.0	2650.6	2877.5	3326.2	3718.7	3922.4	3927.5	3683.7	3754.8	3329.3
60°	2175.5	2190.1	2395.7	2698.5	3356.9	4300.7	4585.0	4543.7	4070.2	4070.2	3630.2
62.5°	1542.8	1565.6	1732.3	2177.9	3031.6	4502.8	5378.6	5293.3	4602.7	4371.9	3809.5
65°	985.9	963.9	1074.4	1374.8	2258.5	4204.3	6069.6	6074.7	5103.7	4492.6	3711.6
67°	714.2	705.5	737.4	939.9	1531.4	3534.2	6084.1	6353.5	5391.6	4416.3	3398.5
67.5°	653.2	659.9	683.1	847.9	1391.4	3216.1	6018.0	6337.0	5456.5	4370.3	3285.3
70°	495.1	483.7	508.9	599.7	834.1	2028.8	5176.9	5812.0	5375.9	3913.7	2625.0
72.5°	364.2	363.0	398.0	490.4	642.2	1080.7	3886.2	4660.1	4391.9	2980.1	1652.9
75°	245.8	256.8	312.6	409.8	582.0	700.8	2649.4	3380.8	3048.9	1692.2	675.6
77.5°	140.0	140.8	201.3	329.2	522.6	563.9	1569.9	2153.9	1613.9	562.8	200.6
80°	60.6	66.5	99.9	239.1	433.4	499.4	900.2	1183.7	652.8	119.2	64.9
82.5°	22.4	26.3	44.0	147.1	316.2	411.3	543.9	565.1	221.4	42.1	40.5
85°	0.0	0.8	16.1	68.8	164.8	183.7	363.4	335.1	97.9	20.1	26.3
87.5°	0.0	0.0	0.0	7.1	21.6	68.4	112.9	125.8	23.6	7.1	6.3
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°	1560.1	1560.1	1560.1	1560.1	1560.1	1560.1	1560.1	1560.1	1560.1	1560.1	1560.1
2.5°	1548.3	1522.7	1458.6	1394.5	1346.9	1307.2	1247.4	1214.8	1197.5	1171.9	1173.5
5°	1509.3	1457.4	1344.6	1227.8	1133.4	1041.4	931.2	886.8	849.4	828.2	814.0
7.5°	1451.5	1374.8	1207.7	1052.0	906.9	746.0	625.3	544.7	490.4	470.3	451.1
10°	1388.2	1286.4	1068.9	853.0	651.6	485.7	383.4	309.5	283.1	258.8	261.1
12.5°	1329.6	1205.7	941.5	673.3	456.6	308.7	240.7	210.4	201.7	199.0	199.0
15°	1281.6	1128.7	804.6	506.1	313.0	221.8	192.7	184.4	181.3	180.5	180.5
17.5°	1230.5	1055.5	681.1	374.0	227.7	185.6	175.8	170.3	169.1	168.3	168.3
20°	1184.9	982.0	563.9	278.4	184.0	167.1	160.8	157.3	156.1	155.3	155.7
22.5°	1141.6	916.7	453.8	210.4	162.0	152.2	145.9	142.4	140.0	138.0	138.4
25°	1103.1	853.8	364.9	172.2	145.9	137.2	131.0	125.8	120.7	118.4	118.0
27.5°	1076.0	798.7	284.3	147.5	131.3	121.9	114.0	107.8	101.1	97.5	96.7
30°	1053.5	742.9	224.9	130.2	116.8	107.8	97.9	88.9	81.8	78.3	76.7
32.5°	1039.0	689.8	177.4	116.0	104.6	93.6	82.6	73.5	65.7	62.1	61.3
35°	1036.6	645.3	145.1	104.2	93.6	81.8	70.4	60.6	53.9	50.3	49.6
37.5°	1053.5	611.1	121.5	94.8	84.6	71.6	59.0	49.9	44.0	41.3	40.9
40°	1098.8	589.5	105.4	86.9	76.3	62.1	50.3	42.5	36.6	33.8	33.8
42.5°	1184.9	590.3	94.8	79.4	68.0	53.1	42.9	35.4	30.3	27.9	27.1
45°	1319.4	617.0	85.7	72.0	60.2	46.0	36.6	29.1	24.0	22.0	22.0
47.5°	1499.5	670.1	77.9	64.5	53.1	39.3	31.1	23.6	19.3	17.3	17.3
50°	1735.1	755.5	71.2	58.2	47.2	33.8	25.2	19.3	14.9	13.4	13.0
52.5°	1981.2	860.8	63.3	52.7	40.5	28.7	20.4	14.9	11.4	10.2	9.8
55°	2253.0	963.9	55.8	47.2	33.0	24.0	16.1	11.8	8.3	7.1	7.1
57.5°	2527.1	1064.9	46.8	39.3	26.0	17.7	12.6	8.7	5.5	4.3	4.3
60°	2759.1	1097.6	39.7	31.9	19.7	12.6	9.0	5.5	3.1	2.0	2.0
62.5°	2791.0	987.5	33.4	24.4	14.2	8.7	4.7	3.1	1.2	0.8	0.8
65°	2617.9	802.2	27.9	18.5	9.4	4.3	2.0	1.2	0.4	0.0	0.0
67°	2345.8	650.5	22.8	13.8	6.7	2.8	1.2	0.4	0.0	0.0	0.0
67.5°	2276.2	620.2	22.0	13.0	5.9	2.4	0.8	0.4	0.0	0.0	0.0
70°	1786.2	464.4	15.7	7.9	3.5	1.6	0.0	0.0	0.0	0.0	0.0
72.5°	1110.2	262.7	11.4	4.7	2.4	0.8	0.0	0.0	0.0	0.0	0.0
75°	419.6	92.0	7.9	3.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	130.6	35.0	4.7	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	44.0	13.4	3.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	27.1	5.5	2.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.9	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	0.8	0.4	0.0	0.0	0.0	0.0	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)