

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: P451272

Luminaire Tested: **GALN-SA2A-827-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451272  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2A-827-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6701 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

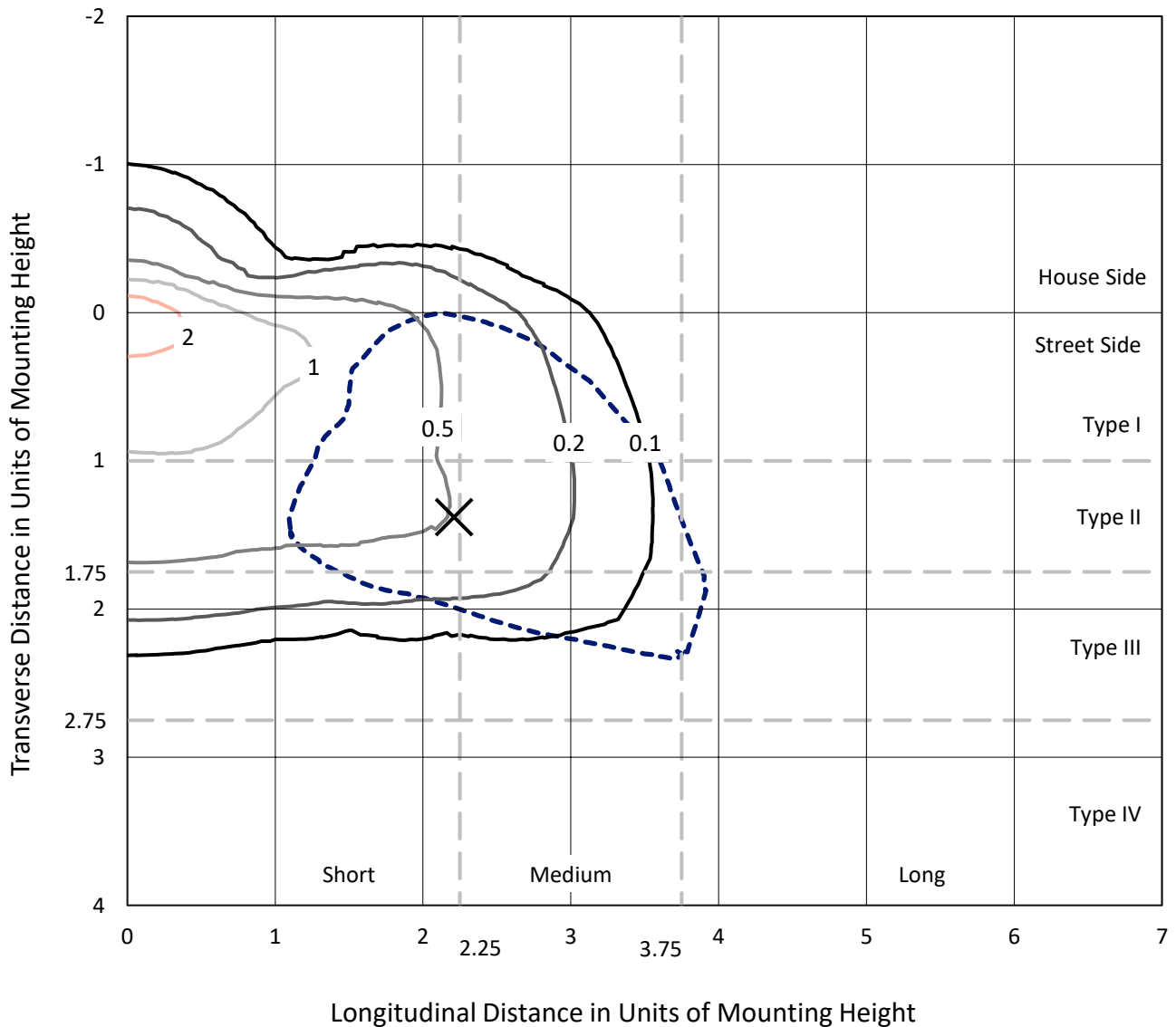
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

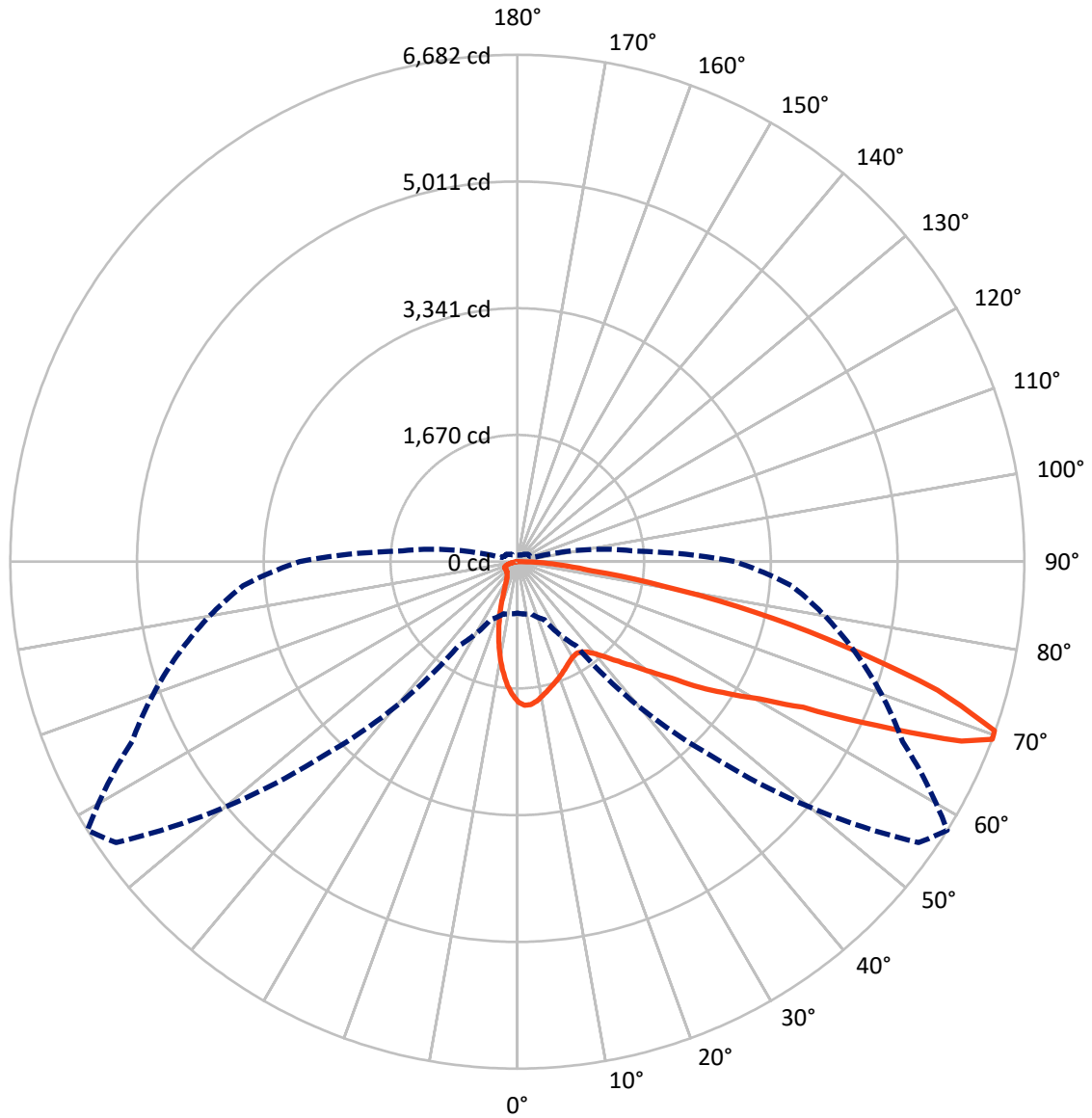
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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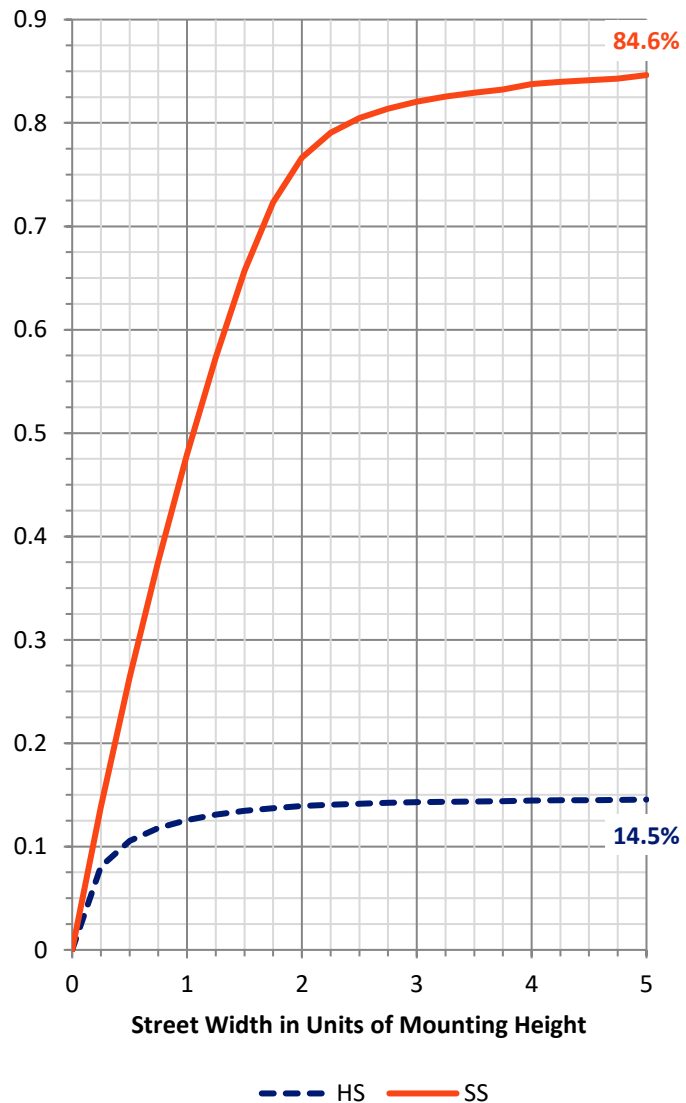
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	982.0	0.0	982.0
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	5719.0	0.0	5719.0
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	6701.0	0.0	6701.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.3	2.3
10°-20°	345.3	5.2
20°-30°	446.1	6.7
30°-40°	579.5	8.6
40°-50°	842.5	12.6
50°-60°	1344.3	20.1
60°-70°	1795.8	26.8
70°-80°	1035.2	15.4
80°-90°	155.1	2.3
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°	6701.0	100.0
0°-180°	6701.0	100.0



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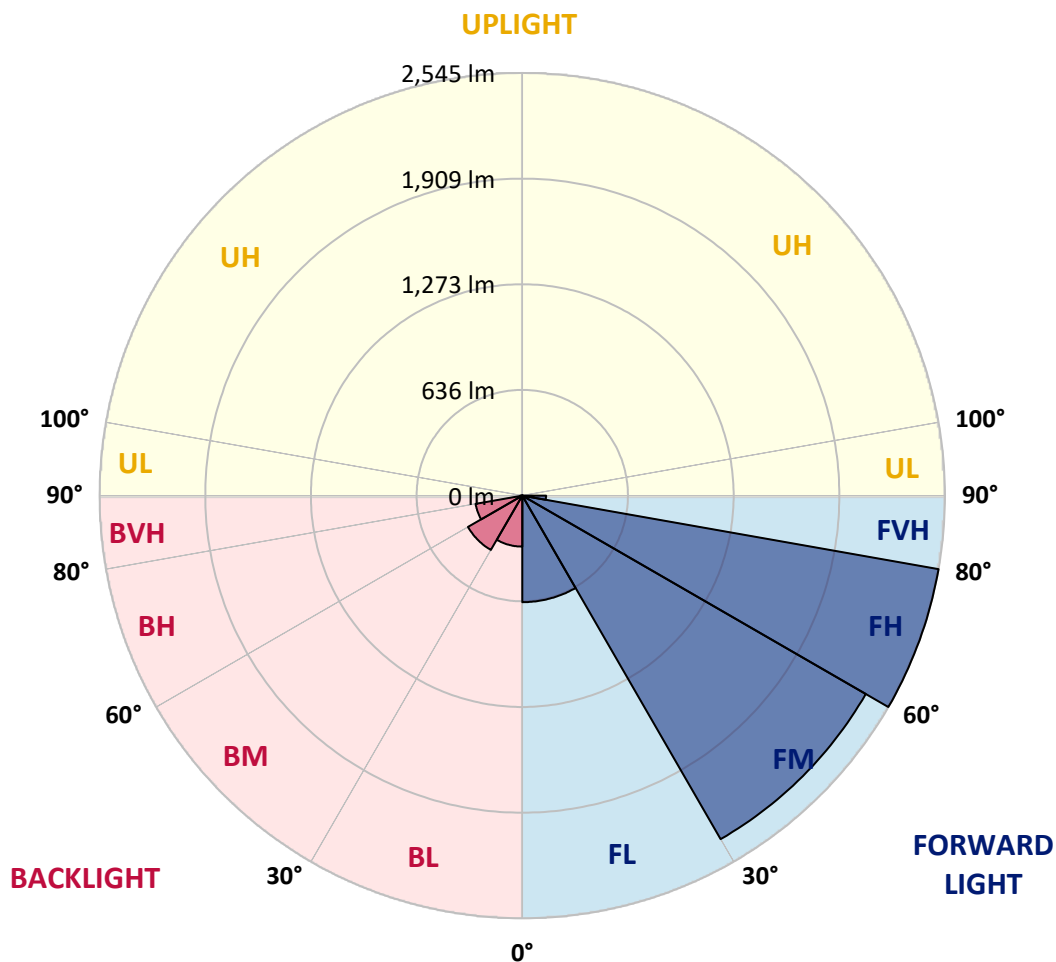
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	641.8	9.6			
FM (30°-60°)	2388.6	35.6			
FH (60°-80°)	2545.5	38.0			G2/5000
FVH (80°-90°)	143.2	2.1			G2/225
BL (0°-30°)	306.9	4.6	B1/500		
BM (30°-60°)	377.7	5.6	B1/1000		
BH (60°-80°)	285.6	4.3	B1/500		G1/500
BVH (80°-90°)	11.9	0.2			G1/100
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°	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8
2.5°	1920.5	1925.8	1924.3	1922.4	1919.4	1911.2	1897.7	1895.5	1886.9	1868.6	1845.8
5°	1891.0	1895.5	1895.9	1898.5	1902.2	1900.7	1891.0	1889.9	1877.2	1852.5	1814.4
7.5°	1789.7	1795.7	1808.8	1823.4	1836.4	1848.8	1851.8	1853.6	1845.8	1817.4	1766.6
10°	1675.7	1681.7	1687.7	1709.4	1741.5	1772.2	1797.6	1800.9	1802.8	1776.6	1714.6
12.5°	1549.4	1561.8	1574.5	1606.6	1649.6	1697.8	1742.6	1749.7	1762.4	1742.6	1669.8
15°	1442.2	1454.9	1473.2	1502.0	1553.9	1623.4	1686.6	1698.2	1723.2	1713.1	1627.9
17.5°	1367.8	1372.3	1385.0	1417.9	1473.9	1547.2	1631.6	1654.8	1694.8	1692.2	1592.0
20°	1309.1	1314.7	1322.6	1342.8	1401.1	1478.4	1580.4	1610.3	1664.5	1673.5	1556.5
22.5°	1284.5	1288.6	1287.5	1298.3	1337.9	1415.6	1528.5	1564.0	1637.6	1660.8	1523.6
25°	1286.0	1289.7	1284.1	1281.5	1305.0	1360.3	1474.3	1519.5	1615.9	1652.2	1493.7
27.5°	1311.0	1313.6	1303.1	1292.7	1294.6	1325.9	1429.5	1479.5	1597.6	1655.9	1468.7
30°	1344.6	1349.5	1342.8	1330.1	1316.2	1317.7	1400.7	1450.0	1589.0	1669.0	1456.7
32.5°	1388.0	1392.5	1389.5	1379.4	1361.4	1341.6	1393.6	1439.2	1589.8	1695.6	1454.1
35°	1433.6	1442.5	1447.4	1446.7	1432.1	1397.7	1421.6	1459.4	1607.7	1740.0	1469.5
37.5°	1485.1	1492.6	1513.6	1527.0	1513.6	1473.6	1484.8	1510.9	1647.3	1804.3	1503.1
40°	1535.2	1546.4	1577.1	1618.9	1613.7	1578.6	1581.2	1598.4	1717.2	1900.0	1568.9
42.5°	1587.5	1601.0	1654.4	1716.5	1728.8	1701.5	1708.6	1724.0	1816.6	2032.6	1681.7
45°	1654.8	1670.9	1736.7	1814.0	1862.6	1845.8	1866.0	1873.4	1949.7	2205.3	1830.5
47.5°	1741.5	1760.2	1841.3	1937.7	2006.5	2021.8	2056.9	2052.4	2114.5	2409.7	2023.3
50°	1887.6	1898.1	1974.7	2073.0	2167.6	2236.7	2274.8	2281.9	2318.9	2608.5	2238.9
52.5°	2061.4	2070.8	2126.1	2212.0	2330.5	2477.0	2571.2	2548.0	2557.0	2850.7	2491.2
55°	2256.9	2272.6	2307.7	2364.9	2518.5	2734.1	2923.2	2928.8	2829.4	3082.4	2733.0
57.5°	2408.2	2434.8	2494.9	2576.4	2771.1	3020.0	3274.1	3277.9	3150.8	3329.8	2999.8
60°	2332.0	2363.4	2500.9	2699.4	3102.6	3518.9	3693.4	3672.1	3463.6	3611.6	3325.3
62.5°	2003.1	2008.7	2208.7	2518.8	3204.6	4186.4	4317.5	4227.5	3881.0	3968.9	3656.1
65°	1296.4	1333.0	1491.5	1926.1	2869.4	4556.7	5411.0	5202.9	4466.3	4374.3	3933.0
67.5°	818.4	809.1	874.9	1099.8	1973.6	4230.5	6344.2	6311.3	5231.7	4630.3	3866.8
69°	678.7	689.1	711.6	843.1	1358.1	3612.0	6454.5	6681.7	5602.8	4610.2	3626.5
70°	615.5	620.4	643.9	747.4	1047.9	3025.2	6273.6	6671.6	5748.5	4525.7	3452.4
72.5°	488.4	488.1	528.4	621.9	783.3	1726.9	5151.3	5792.2	5585.6	4132.6	2852.6
75°	371.1	377.1	421.6	526.2	721.6	943.6	3594.8	4460.7	4461.1	3264.0	1780.0
77.5°	267.6	271.3	323.3	441.7	679.8	765.0	2394.4	3199.4	3007.7	1495.6	559.5
80°	175.3	177.5	217.1	349.8	612.9	721.6	1419.7	1958.3	1418.6	396.9	185.0
82.5°	96.0	107.3	132.7	226.5	491.8	666.7	862.9	991.1	532.2	176.8	96.4
85°	48.2	51.2	74.7	132.3	321.4	551.6	600.9	568.4	274.7	87.8	50.1
87.5°	14.2	17.9	31.0	51.2	130.4	287.4	334.5	300.1	105.8	31.8	10.5
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°	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8
2.5°	1836.4	1829.7	1799.8	1772.9	1748.2	1722.1	1700.0	1680.6	1682.5	1682.8	1663.0
5°	1794.6	1779.3	1722.5	1669.4	1624.5	1567.7	1519.2	1487.8	1472.1	1451.1	1458.6
7.5°	1737.8	1708.3	1629.4	1541.2	1458.6	1385.0	1305.0	1250.1	1215.0	1180.9	1185.4
10°	1679.1	1631.6	1516.9	1400.3	1293.4	1175.7	1073.7	986.2	921.2	896.9	880.8
12.5°	1618.9	1556.5	1410.8	1255.7	1108.1	967.2	822.5	728.7	657.0	618.9	623.7
15°	1564.0	1488.1	1300.2	1111.1	919.3	751.5	607.3	518.0	467.9	457.4	463.4
17.5°	1513.2	1413.8	1196.6	970.5	746.7	563.6	456.3	405.9	385.7	380.1	379.7
20°	1460.9	1350.6	1080.4	820.3	581.9	436.9	374.5	350.9	347.2	349.4	349.8
22.5°	1407.8	1272.5	960.8	671.2	463.4	357.3	327.4	321.0	324.0	329.2	330.0
25°	1358.8	1203.7	845.7	540.4	370.0	313.9	299.3	299.3	306.1	313.9	314.3
27.5°	1318.5	1137.2	731.0	429.0	309.8	282.5	277.7	280.3	289.6	295.6	296.0
30°	1285.2	1075.2	622.6	343.8	272.4	257.5	256.4	260.9	267.6	273.2	273.6
32.5°	1260.2	1020.6	521.3	288.9	246.7	238.4	238.1	241.4	245.2	246.7	248.1
35°	1250.5	975.4	428.7	254.1	229.5	224.2	224.2	223.9	225.4	226.1	226.8
37.5°	1258.3	940.6	356.9	231.7	216.8	213.0	210.8	208.5	207.8	207.8	208.2
40°	1291.6	922.3	303.5	217.1	207.8	202.2	198.1	195.5	192.8	193.6	194.3
42.5°	1362.2	925.7	267.2	207.4	199.9	192.1	186.1	183.1	181.3	183.5	183.1
45°	1474.7	959.3	244.0	200.7	192.1	182.0	176.4	173.4	173.4	176.8	177.9
47.5°	1632.0	1023.6	231.7	195.5	186.1	174.2	168.5	166.3	167.1	172.7	173.0
50°	1824.1	1135.4	229.5	192.8	183.1	168.5	162.2	160.0	161.8	167.8	168.5
52.5°	2036.0	1279.2	240.3	193.2	180.5	165.2	157.0	153.6	155.5	160.3	161.8
55°	2287.1	1459.4	268.3	194.7	176.8	163.3	153.2	145.7	148.0	151.4	151.7
57.5°	2543.5	1686.6	317.7	195.1	173.8	160.0	146.9	137.2	137.2	139.4	140.5
60°	2856.7	1934.0	382.7	195.5	174.2	155.1	138.3	127.4	125.9	127.1	127.4
62.5°	3167.6	2141.0	393.5	194.3	177.9	150.2	128.9	117.7	115.1	114.7	114.0
65°	3304.8	2102.5	322.5	189.1	182.0	147.2	121.5	108.4	103.9	102.4	102.4
67.5°	3081.3	1778.5	242.5	182.0	179.4	144.3	114.4	100.5	95.3	92.3	92.3
69°	2871.3	1581.9	217.9	177.1	172.7	139.4	109.9	96.4	90.1	86.7	85.6
70°	2709.1	1446.7	207.4	173.0	166.3	133.8	106.5	93.4	86.3	82.6	81.8
72.5°	2161.9	1135.0	181.6	157.3	141.6	112.5	94.6	84.1	77.4	73.2	72.1
75°	1246.0	615.1	150.6	136.8	114.0	87.4	80.0	73.2	68.0	64.3	63.2
77.5°	383.4	237.7	109.1	108.0	83.7	67.6	63.9	61.3	57.6	53.4	52.7
80°	161.4	121.1	74.0	72.9	55.7	47.1	46.0	45.6	44.1	40.7	39.6
82.5°	88.6	68.4	51.6	44.8	33.6	27.3	28.4	28.8	27.7	24.3	22.0
85°	43.4	37.4	25.0	20.2	15.3	9.7	9.3	11.2	10.5	7.5	8.2
87.5°	8.6	10.5	6.7	3.0	1.5	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)