

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: P949134

Luminaire Tested: **GALN-SB4A-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-722-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14822 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 114
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

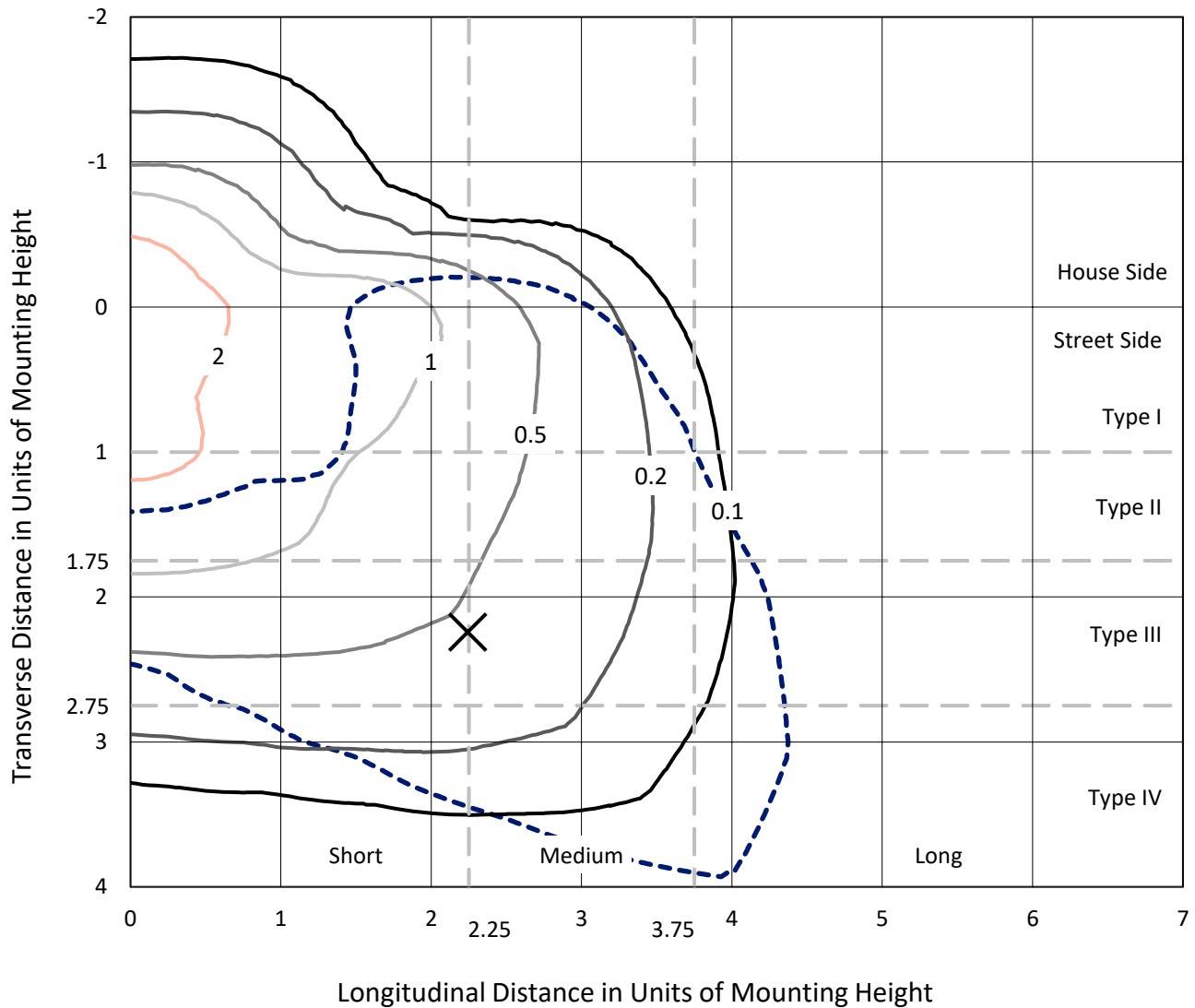


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

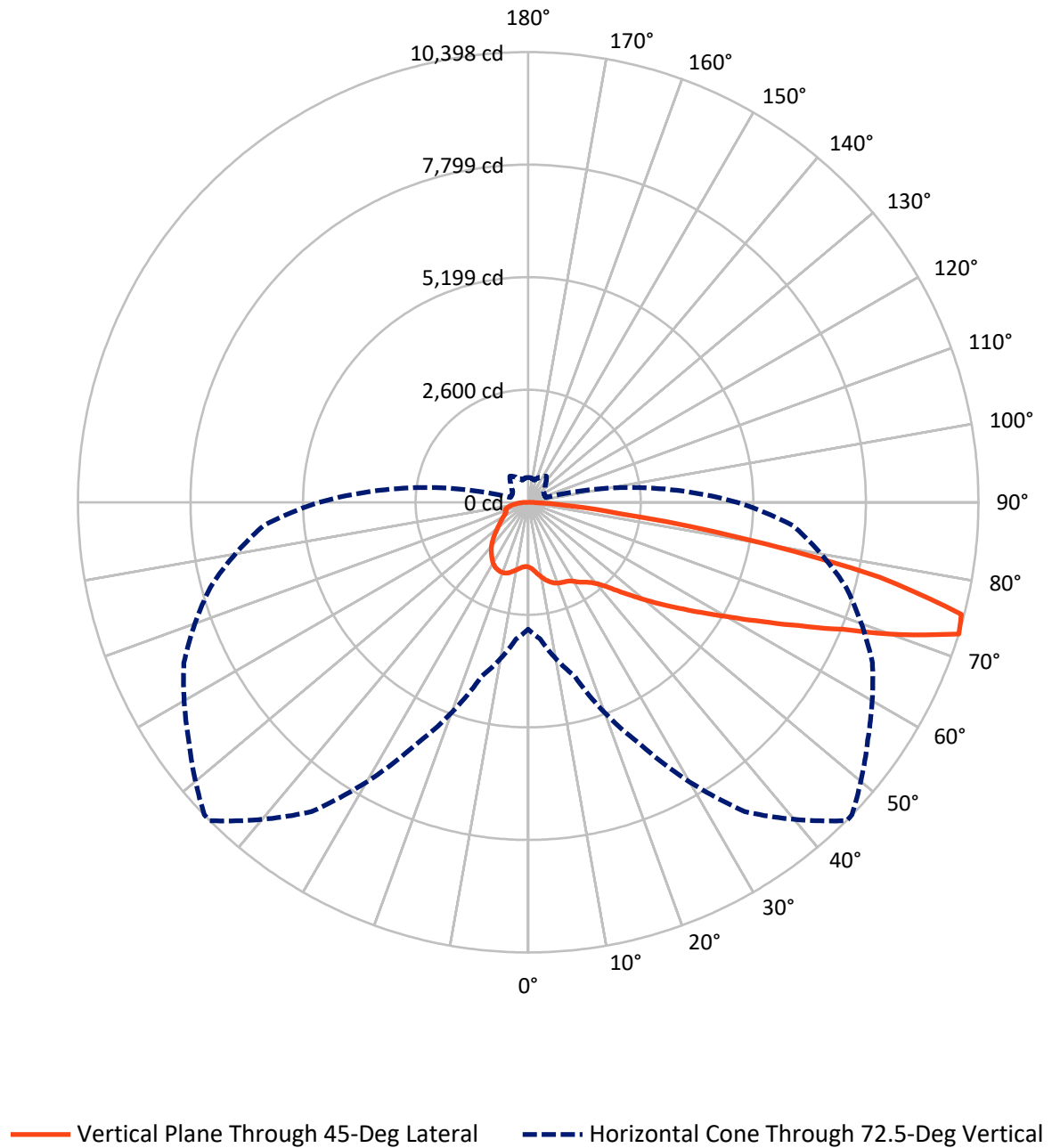


Based on 25 foot mounting height. Maximum calculated value = 3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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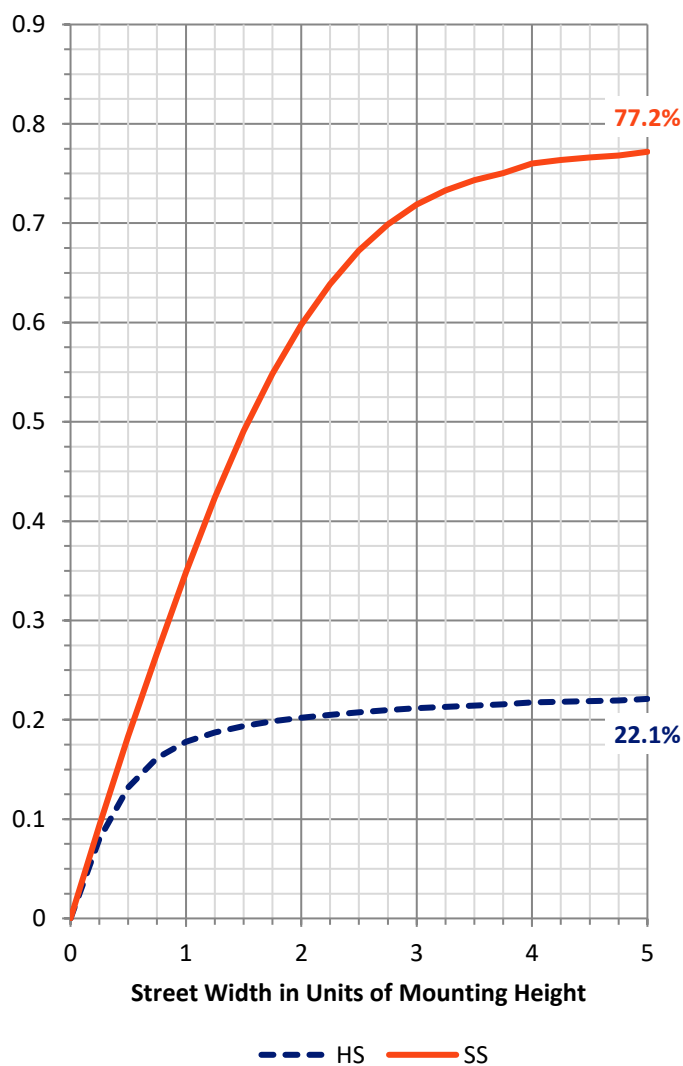
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3350.7	0.0	3350.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	11471.3	0.0	11471.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	14822.0	0.0	14822.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.2	1.0
10°-20°	507.4	3.4
20°-30°	882.7	6.0
30°-40°	1265.4	8.5
40°-50°	1781.7	12.0
50°-60°	2729.0	18.4
60°-70°	3953.4	26.7
70°-80°	3157.0	21.3
80°-90°	393.2	2.7
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°	14822.0	100.0
0°-180°	14822.0	100.0

Coefficient of Utilization

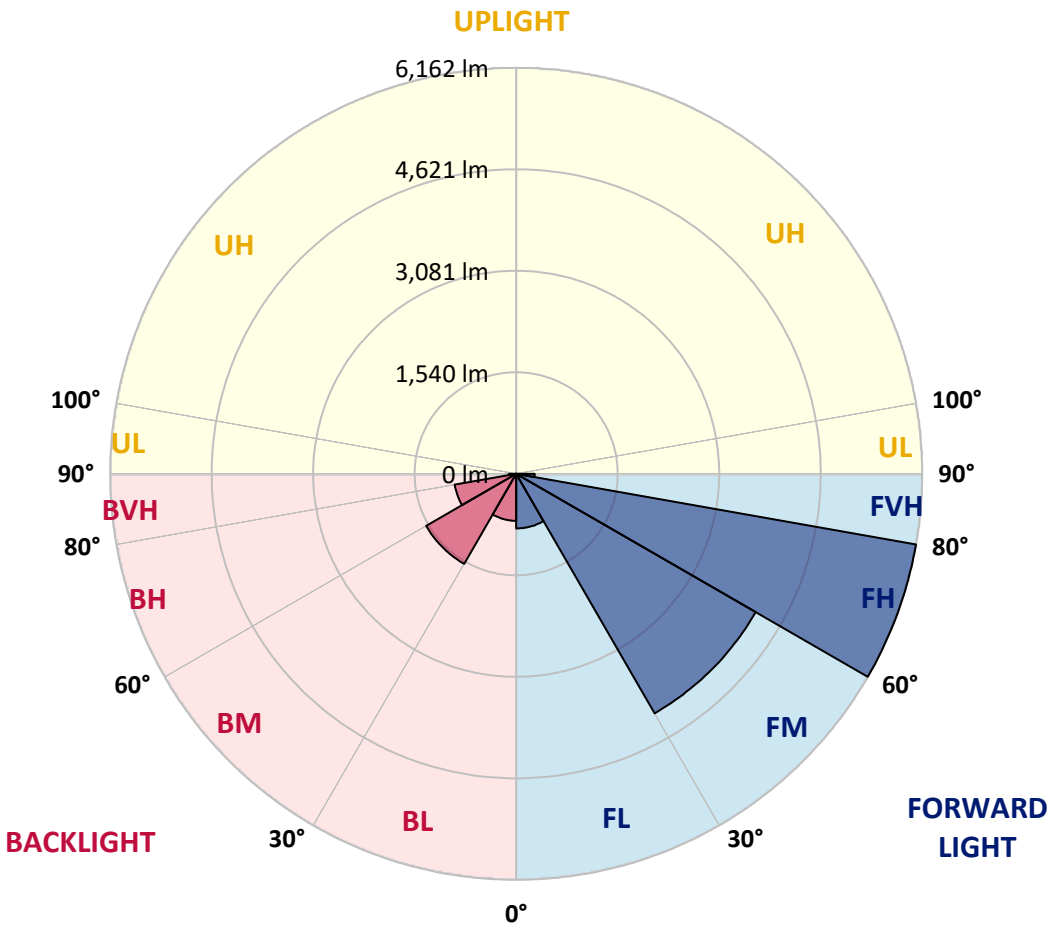


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	828.9	5.6			
FM	(30°-60°)	4198.4	28.3			
FH	(60°-80°)	6161.9	41.6			G3/7500
FVH	(80°-90°)	282.1	1.9			G3/500
BL	(0°-30°)	713.4	4.8	B2/1000		
BM	(30°-60°)	1577.7	10.6	B2/2500		
BH	(60°-80°)	948.5	6.4	B2/1000		G2/1000
BVH	(80°-90°)	111.1	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3
2.5°	1553.8	1564.0	1554.6	1546.0	1542.1	1531.9	1531.2	1524.9	1521.0	1510.1	1507.0
5°	1662.3	1675.6	1660.0	1642.8	1627.2	1602.2	1599.1	1581.1	1560.8	1537.4	1524.1
7.5°	1784.9	1796.6	1778.7	1752.9	1725.6	1684.2	1683.4	1650.6	1618.6	1578.8	1556.2
10°	1891.9	1907.5	1883.3	1848.2	1813.8	1767.0	1761.5	1724.0	1683.4	1631.9	1597.5
12.5°	1986.4	1997.3	1973.9	1930.9	1891.1	1844.3	1837.2	1795.9	1750.6	1692.0	1648.3
15°	2061.3	2075.4	2044.2	1998.1	1955.9	1909.9	1903.6	1866.1	1820.8	1759.2	1702.9
17.5°	2110.5	2122.2	2090.2	2038.7	1998.1	1959.8	1955.1	1923.9	1884.1	1821.6	1761.5
20°	2129.3	2141.8	2108.2	2055.9	2018.4	1988.7	1986.4	1963.7	1936.4	1879.4	1818.5
22.5°	2148.0	2159.7	2116.0	2061.3	2028.5	2009.8	2009.0	1994.2	1983.3	1936.4	1877.1
25°	2223.7	2226.9	2168.3	2089.4	2042.6	2026.2	2025.4	2024.6	2029.3	1992.6	1940.3
27.5°	2289.3	2288.6	2238.6	2164.4	2091.8	2057.4	2056.7	2064.5	2079.3	2048.8	2005.9
30°	2385.4	2376.8	2317.4	2240.1	2173.8	2120.7	2116.0	2109.0	2120.7	2096.5	2071.5
32.5°	2589.2	2561.8	2465.8	2328.4	2241.7	2201.1	2194.9	2151.1	2155.8	2141.0	2128.5
35°	2881.2	2845.3	2717.2	2495.5	2326.0	2268.3	2265.1	2209.7	2200.3	2187.0	2191.7
37.5°	3228.6	3184.1	3035.0	2737.5	2471.3	2346.3	2341.6	2291.7	2253.4	2239.4	2265.9
40°	3577.7	3521.5	3398.1	3032.7	2685.2	2476.7	2461.9	2386.2	2342.4	2319.0	2375.2
42.5°	3916.5	3869.7	3764.3	3363.7	2949.1	2667.2	2634.5	2504.8	2472.0	2450.2	2551.7
45°	4216.4	4174.2	4096.9	3717.4	3258.3	2926.5	2894.5	2682.9	2672.7	2672.7	2819.5
47.5°	4460.0	4450.6	4368.6	4078.2	3623.0	3221.6	3166.2	2930.4	2957.7	2999.9	3199.8
50°	4730.1	4704.4	4616.9	4433.4	4051.6	3559.7	3514.4	3234.1	3336.4	3452.0	3749.5
52.5°	4978.4	4992.5	4894.9	4803.5	4535.7	3936.8	3857.2	3592.5	3813.5	4004.8	4393.6
55°	5233.8	5234.6	5207.2	5194.7	5043.3	4353.8	4266.3	4023.5	4374.9	4612.2	5144.8
57.5°	5473.5	5475.0	5515.6	5625.7	5632.0	4834.8	4735.6	4552.9	4998.7	5240.8	5919.3
60°	5687.4	5698.4	5809.2	6066.9	6149.7	5386.0	5292.3	5178.3	5643.7	5887.3	6733.7
62.5°	5759.3	5799.1	6045.8	6412.0	6661.1	6062.2	5970.1	5902.1	6321.4	6547.9	7414.6
65°	5637.4	5728.8	6205.9	6697.0	7187.4	6865.7	6774.3	6700.1	7025.7	7238.9	7973.6
67.5°	5338.4	5456.3	6196.5	6996.1	7826.1	7832.3	7747.2	7573.1	7780.8	7862.8	8155.6
70°	4550.6	4727.0	5650.7	7107.7	8559.2	9154.2	9072.2	8624.0	8534.3	8137.6	7643.3
72.5°	2931.9	3169.3	4160.9	6188.7	8722.4	10398.0	10393.4	9572.7	8772.4	7603.5	6130.1
75°	1069.7	1214.9	1933.3	3884.5	7321.7	10334.8	10365.3	9410.3	8008.0	5873.3	3818.9
77.5°	389.6	426.3	630.9	1492.9	4502.9	8292.2	8355.4	7523.1	5699.9	2947.6	1513.2
80°	204.6	224.9	323.3	579.4	1929.4	4924.6	5023.7	4470.9	2679.0	887.8	453.7
82.5°	113.2	122.6	181.1	314.7	869.0	2105.8	2165.2	1766.2	942.4	376.4	187.4
85°	60.9	64.8	85.1	171.8	424.8	730.1	746.5	527.8	375.6	221.0	90.6
87.5°	18.0	21.9	28.1	54.7	166.3	164.0	167.9	104.6	148.4	111.7	29.7
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°	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3
2.5°	1502.3	1499.9	1491.3	1487.4	1482.8	1482.0	1485.9	1486.7	1487.4	1488.2	1491.3
5°	1516.3	1508.5	1500.7	1496.0	1497.6	1498.4	1506.2	1511.6	1515.6	1518.7	1520.2
7.5°	1543.7	1537.4	1524.1	1523.4	1525.7	1532.7	1542.9	1555.4	1562.4	1567.9	1569.4
10°	1584.3	1572.6	1556.9	1559.3	1564.0	1574.1	1595.2	1605.3	1617.1	1627.2	1624.9
12.5°	1625.6	1615.5	1597.5	1599.1	1606.9	1624.9	1645.2	1657.7	1665.5	1673.3	1676.4
15°	1679.5	1661.6	1642.0	1642.0	1656.1	1675.6	1685.0	1695.1	1699.8	1708.4	1711.5
17.5°	1735.0	1711.5	1685.8	1684.2	1701.4	1710.8	1716.2	1717.8	1719.3	1728.7	1731.8
20°	1790.4	1764.6	1727.9	1724.8	1728.7	1727.2	1726.4	1724.8	1727.2	1738.9	1743.5
22.5°	1845.1	1815.4	1764.6	1750.6	1739.6	1724.8	1724.0	1723.2	1724.8	1736.5	1744.3
25°	1909.1	1873.2	1805.2	1763.1	1726.4	1706.1	1708.4	1709.2	1710.8	1720.1	1732.6
27.5°	1978.6	1938.8	1842.7	1759.2	1692.8	1678.7	1674.8	1677.2	1682.6	1697.5	1712.3
30°	2048.1	2001.2	1877.1	1743.5	1650.6	1631.1	1618.6	1624.1	1641.3	1656.1	1672.5
32.5°	2111.3	2064.5	1904.4	1709.2	1596.8	1566.3	1549.9	1556.9	1574.1	1579.6	1599.1
35°	2185.5	2132.4	1916.1	1654.5	1538.2	1491.3	1469.5	1459.3	1467.9	1462.5	1479.6
37.5°	2268.3	2212.8	1914.5	1582.7	1469.5	1415.6	1385.2	1346.9	1328.9	1310.2	1321.9
40°	2390.8	2311.2	1895.8	1496.0	1384.4	1335.2	1280.5	1215.7	1175.1	1138.4	1140.8
42.5°	2557.9	2447.8	1861.5	1400.8	1288.3	1242.3	1168.1	1092.4	1028.3	967.4	962.0
45°	2807.0	2626.6	1818.5	1299.3	1184.5	1139.2	1058.8	973.7	901.1	823.0	813.6
47.5°	3166.2	2867.1	1777.9	1183.7	1075.2	1033.8	961.2	882.3	796.4	720.7	712.1
50°	3659.7	3212.3	1740.4	1071.3	967.4	936.2	878.4	798.0	711.3	650.4	646.5
52.5°	4287.4	3681.5	1724.8	962.7	866.7	855.0	808.9	734.0	652.0	600.4	596.5
55°	5008.1	4242.9	1724.8	858.9	778.5	782.4	750.4	680.9	609.8	563.7	559.1
57.5°	5743.6	4811.4	1693.6	762.9	703.5	719.9	699.6	638.7	574.7	527.0	519.2
60°	6421.4	5287.6	1567.1	675.4	637.1	662.9	649.6	597.3	519.2	479.4	473.2
62.5°	6942.2	5556.2	1323.5	605.9	582.5	612.2	605.1	542.7	509.1	492.7	487.2
65°	7203.0	5512.5	1011.9	544.2	536.4	582.5	567.6	565.3	538.8	520.0	513.8
67.5°	7042.9	5136.2	734.0	498.9	509.9	555.2	612.2	621.5	572.3	535.6	529.4
70°	6341.0	4455.3	546.6	456.0	476.3	555.9	698.0	650.4	561.4	518.5	511.4
72.5°	4823.8	3322.3	424.0	410.7	432.6	559.8	736.3	637.1	530.2	573.1	568.4
75°	2758.6	1824.0	340.4	355.3	377.9	523.1	716.8	602.8	506.0	526.3	526.3
77.5°	1051.8	701.2	281.1	300.6	303.7	456.8	685.6	600.4	481.8	470.0	428.7
80°	364.6	274.1	232.7	238.9	235.0	406.0	657.4	522.4	394.3	352.9	341.2
82.5°	149.1	136.6	184.3	176.5	167.1	315.4	531.0	427.1	322.5	285.0	281.9
85°	64.8	86.7	121.8	107.0	96.8	218.6	425.5	361.5	272.5	235.0	234.2
87.5°	13.3	32.8	51.5	48.4	50.0	146.0	302.2	256.9	192.9	144.4	113.2
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)