

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: P940252

Luminaire Tested: **GALN-SB3B-727-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3B-727-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15534 lumens
Efficiency: N/A
Efficacy: 142.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 109.2
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



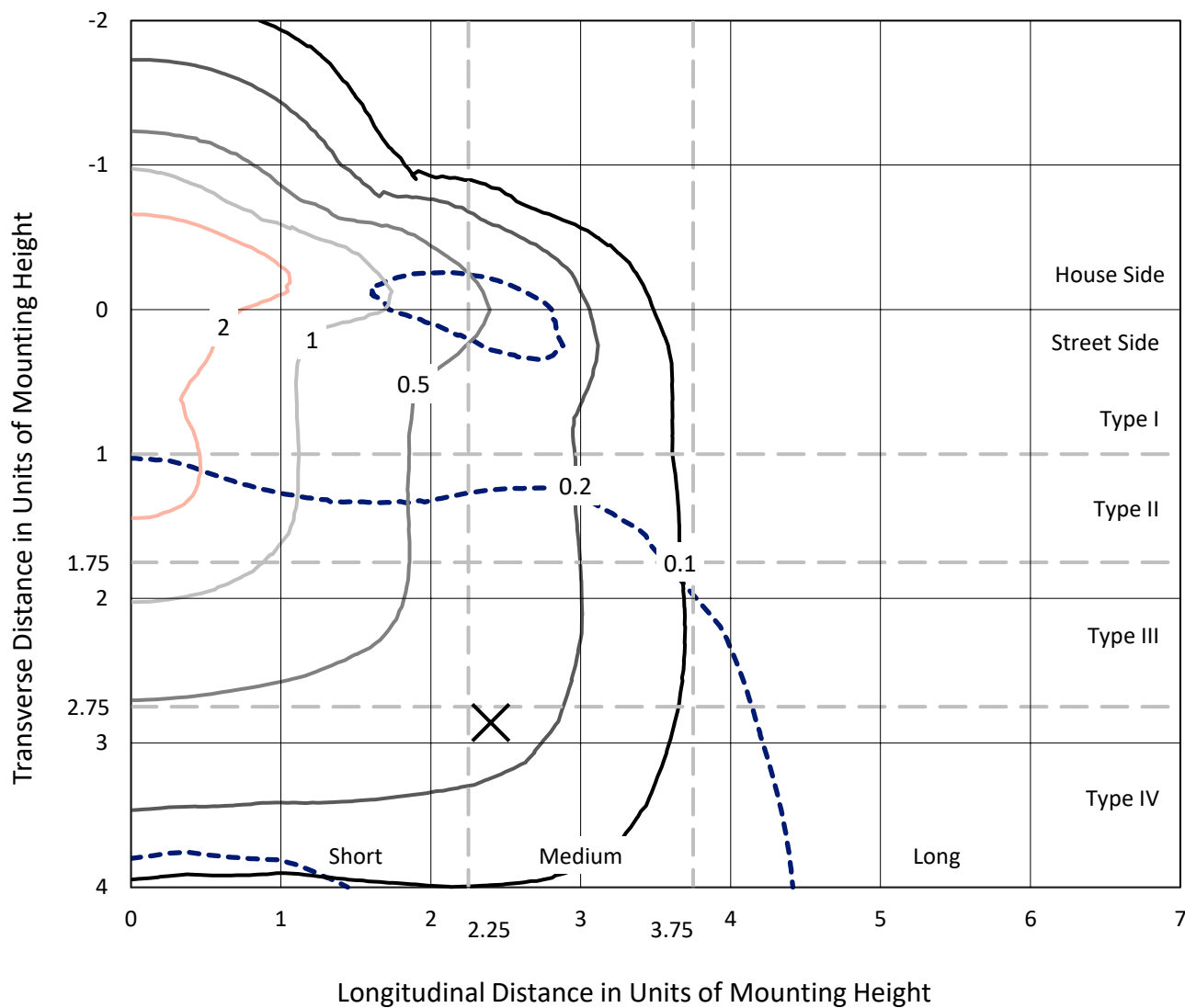
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

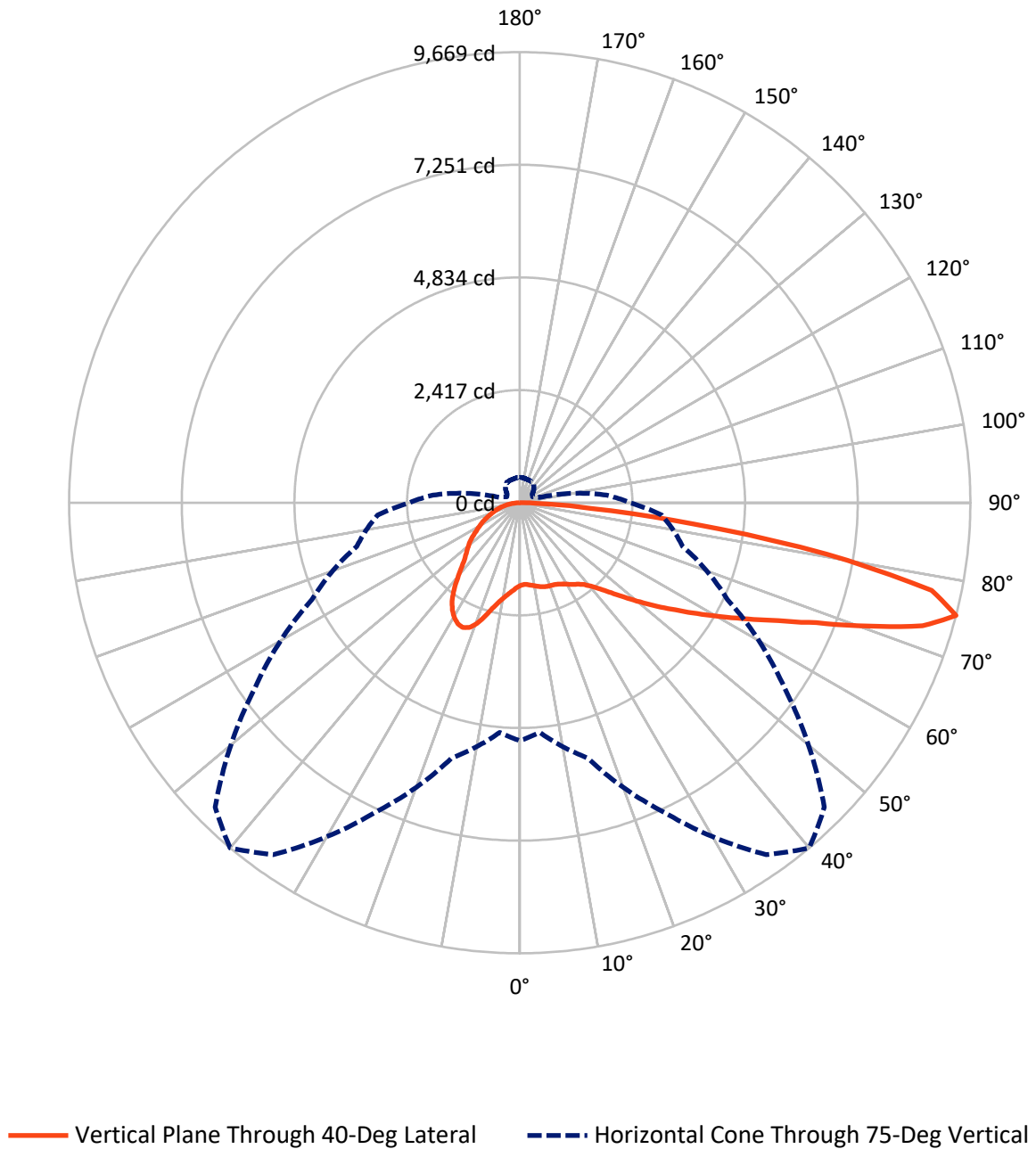


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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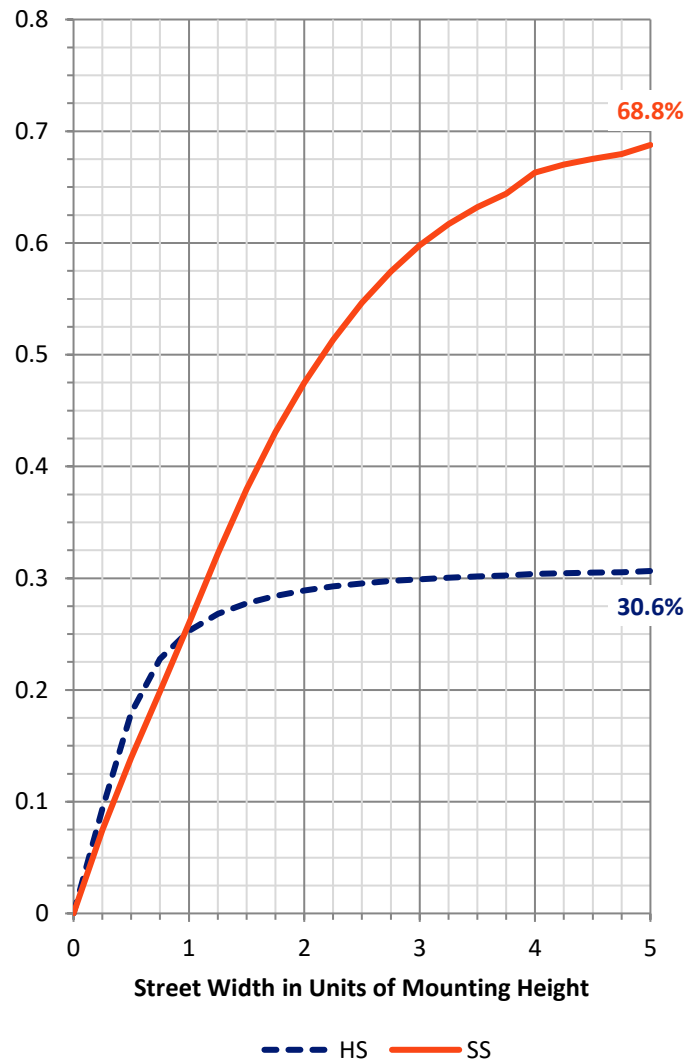
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4813.0	0.0	4813.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	10721.0	0.0	10721.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	15534.0	0.0	15534.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.3	1.1
10°-20°	595.3	3.8
20°-30°	1087.0	7.0
30°-40°	1541.7	9.9
40°-50°	2081.7	13.4
50°-60°	2800.5	18.0
60°-70°	3554.4	22.9
70°-80°	3225.9	20.8
80°-90°	470.2	3.0
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°	15534.0	100.0
0°-180°	15534.0	100.0

Coefficient of Utilization



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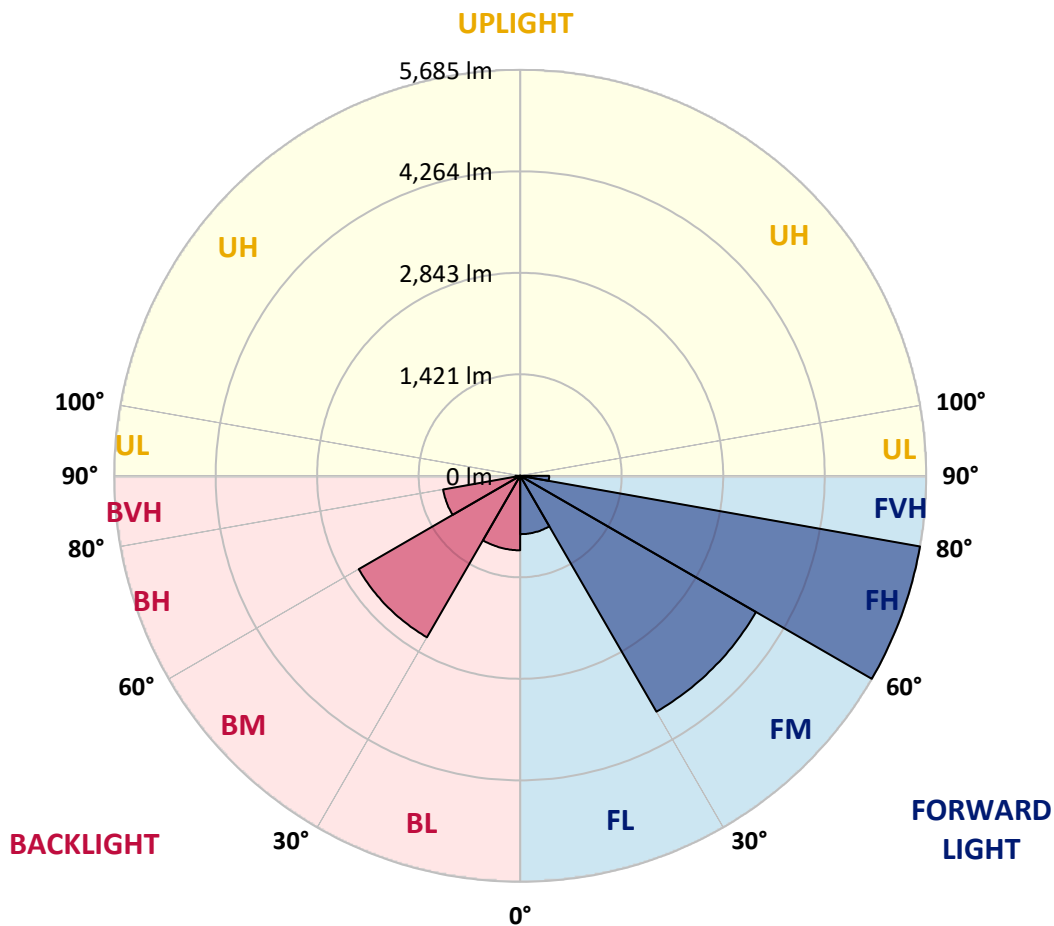
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	817.1	5.3			
FM	(30°-60°)	3813.2	24.5			
FH	(60°-80°)	5685.2	36.6			G3/7500
FVH	(80°-90°)	405.5	2.6			G3/500
BL	(0°-30°)	1042.5	6.7	B3/2500		
BM	(30°-60°)	2610.6	16.8	B3/5000		
BH	(60°-80°)	1095.1	7.0	B3/2500		G3/2500
BVH	(80°-90°)	64.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1776.3	1776.3	1776.3	1776.3	1776.3	1776.3	1776.3	1776.3	1776.3	1776.3	1776.3
2.5°	1749.1	1759.0	1756.6	1753.3	1753.3	1754.1	1753.3	1759.0	1764.8	1770.6	1779.6
5°	1767.3	1777.2	1772.2	1768.1	1764.8	1764.0	1761.5	1760.7	1764.0	1771.4	1783.7
7.5°	1802.7	1812.6	1805.2	1797.8	1791.2	1787.9	1784.6	1779.6	1777.2	1781.3	1798.6
10°	1842.2	1852.1	1843.1	1829.9	1819.2	1815.1	1811.8	1806.8	1803.5	1806.0	1824.9
12.5°	1881.8	1891.7	1879.3	1861.2	1847.2	1844.7	1840.6	1839.0	1838.1	1837.3	1856.3
15°	1918.9	1927.1	1911.5	1890.0	1875.2	1871.1	1867.0	1869.4	1873.6	1878.5	1899.9
17.5°	1947.7	1955.9	1932.9	1904.9	1890.9	1889.2	1886.7	1895.0	1906.5	1918.9	1945.2
20°	1974.1	1982.3	1952.6	1914.7	1898.3	1898.3	1899.1	1916.4	1932.9	1951.0	1987.3
22.5°	2011.1	2017.7	1981.5	1929.6	1905.7	1907.3	1913.9	1931.2	1951.8	1976.5	2026.8
25°	2066.3	2071.3	2026.8	1957.6	1930.4	1935.3	1941.1	1949.4	1969.1	1998.0	2065.5
27.5°	2155.3	2159.4	2101.0	2007.0	1965.8	1974.1	1982.3	1976.5	1985.6	2010.3	2096.8
30°	2280.6	2283.0	2208.9	2084.5	2026.0	2030.1	2031.7	2007.9	1990.5	2010.3	2119.1
32.5°	2428.9	2428.0	2339.9	2178.4	2094.4	2090.2	2076.2	2029.3	1988.9	2006.2	2138.9
35°	2658.7	2649.7	2536.0	2310.2	2171.8	2146.3	2113.3	2053.2	1997.1	2002.1	2156.2
37.5°	3039.4	3011.4	2854.0	2526.1	2287.2	2222.1	2173.5	2091.9	2015.3	2000.4	2176.8
40°	3468.6	3433.2	3260.2	2821.9	2460.2	2355.5	2277.3	2147.1	2044.9	2007.9	2207.2
42.5°	3977.8	3927.5	3741.3	3170.4	2679.3	2527.7	2409.9	2217.1	2088.6	2031.7	2248.4
45°	4603.1	4536.4	4272.8	3563.4	2955.3	2753.5	2596.1	2323.4	2155.3	2077.9	2310.2
47.5°	5235.1	5251.6	4876.7	4013.2	3286.5	3032.0	2829.3	2483.2	2252.5	2152.0	2409.9
50°	5906.6	5918.1	5477.3	4511.7	3662.2	3346.7	3091.3	2662.0	2387.7	2257.5	2559.0
52.5°	6430.6	6432.2	6022.7	5033.2	4053.6	3692.7	3373.9	2866.4	2544.2	2397.6	2757.6
55°	6758.5	6754.4	6405.0	5526.7	4503.5	4056.1	3687.0	3098.7	2735.4	2562.3	3007.2
57.5°	6996.6	6984.2	6668.7	5951.0	4983.0	4485.3	4041.2	3362.3	2961.1	2758.4	3336.0
60°	7087.2	7079.8	6847.5	6317.7	5487.2	4959.9	4449.9	3657.3	3217.3	2989.9	3758.6
62.5°	7121.8	7135.8	7022.9	6672.8	6026.8	5485.5	4898.9	4009.9	3505.7	3251.9	4204.4
65°	7243.8	7269.3	7246.2	7137.5	6636.5	6101.0	5494.6	4429.3	3820.4	3532.9	4669.9
67.5°	7485.2	7510.7	7520.6	7693.6	7381.3	6868.1	6237.8	4951.7	4188.7	3824.6	5020.0
70°	7479.4	7472.0	7646.6	8136.0	8314.0	7930.1	7239.6	5594.3	4627.9	4066.8	5064.5
72.5°	6807.9	6748.6	7161.4	8131.1	9090.1	9039.0	8463.1	6423.1	5006.9	4096.4	4394.7
75°	5107.4	4949.2	5678.3	7327.8	9219.5	9668.5	9240.9	6937.3	4917.0	3619.4	3058.3
77.5°	2184.2	2025.2	2884.5	5424.6	8251.4	9038.2	8527.4	6052.4	3925.1	2393.4	1502.0
80°	571.8	571.0	871.7	2459.3	5611.6	6674.4	5855.5	3908.6	2242.7	855.2	414.4
82.5°	236.5	230.7	320.5	956.6	2741.9	3745.5	3056.7	1743.4	809.9	231.5	137.6
85°	88.2	87.3	155.7	330.4	967.3	1544.8	1118.0	445.7	201.9	112.9	61.8
87.5°	24.7	23.9	33.8	114.5	235.6	357.6	191.1	73.3	56.8	44.5	18.1
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°	1776.3	1776.3	1776.3	1776.3	1776.3	1776.3	1776.3	1776.3	1776.3	1776.3	1776.3
2.5°	1782.1	1786.2	1793.6	1799.4	1806.8	1815.1	1826.6	1834.0	1841.4	1846.4	1843.1
5°	1789.5	1798.6	1817.5	1836.5	1858.7	1879.3	1903.2	1920.5	1934.5	1938.6	1940.3
7.5°	1806.0	1820.8	1853.0	1885.1	1920.5	1954.3	1988.9	2018.6	2042.5	2051.5	2052.3
10°	1834.8	1854.6	1899.9	1945.2	1992.2	2044.1	2088.6	2131.4	2165.2	2179.2	2180.0
12.5°	1871.1	1895.8	1955.1	2017.7	2082.8	2154.5	2212.2	2264.9	2306.9	2325.9	2325.9
15°	1918.0	1950.2	2026.0	2110.0	2205.6	2305.3	2378.6	2437.1	2484.1	2507.1	2505.5
17.5°	1969.1	2012.0	2107.5	2234.4	2371.2	2502.2	2587.9	2630.7	2679.3	2701.6	2700.8
20°	2018.6	2071.3	2208.1	2392.6	2574.7	2713.9	2783.1	2794.7	2798.0	2800.4	2807.0
22.5°	2069.6	2140.5	2334.1	2592.0	2787.3	2883.7	2893.5	2844.1	2774.9	2742.8	2751.8
25°	2125.7	2219.6	2498.9	2812.0	2970.2	2981.7	2905.9	2785.6	2654.6	2594.5	2603.5
27.5°	2180.0	2311.0	2696.6	3022.1	3102.0	3000.7	2837.5	2667.0	2508.8	2445.3	2452.8
30°	2234.4	2415.7	2915.0	3205.8	3162.1	2953.7	2729.6	2539.3	2380.3	2313.5	2320.9
32.5°	2289.6	2537.6	3166.3	3338.5	3151.4	2854.0	2595.3	2395.9	2255.8	2185.8	2194.9
35°	2352.2	2687.6	3404.4	3411.0	3079.7	2707.3	2418.2	2224.5	2102.6	2046.6	2058.9
37.5°	2433.8	2877.9	3614.5	3429.1	2954.5	2492.3	2198.2	2021.9	1921.3	1895.8	1913.9
40°	2535.1	3106.9	3775.1	3400.2	2769.1	2231.1	1957.6	1816.7	1759.9	1765.6	1785.4
42.5°	2667.0	3363.2	3888.0	3326.1	2511.3	1961.7	1746.7	1684.1	1711.2	1734.3	1755.7
45°	2838.3	3629.3	3958.0	3200.0	2219.6	1733.5	1622.3	1637.1	1657.7	1660.2	1676.6
47.5°	3057.5	3898.7	4004.2	3009.7	1922.2	1572.8	1543.2	1546.5	1542.3	1525.0	1538.2
50°	3331.0	4160.7	4045.4	2757.6	1669.2	1472.3	1432.8	1421.2	1364.4	1308.4	1315.8
52.5°	3642.5	4401.3	4062.7	2444.5	1472.3	1388.3	1324.0	1251.5	1145.2	1127.9	1133.7
55°	3988.5	4623.7	4018.2	2059.8	1306.7	1280.3	1183.1	1095.8	1084.3	1069.4	1071.9
57.5°	4402.1	4863.5	3927.5	1630.5	1137.0	1154.3	1059.5	1069.4	1048.8	1025.8	1021.6
60°	4854.4	5111.5	3768.5	1239.1	961.5	996.9	1027.4	1026.6	1020.8	1001.9	995.3
62.5°	5261.4	5274.6	3455.4	949.1	807.4	875.0	958.2	957.4	952.4	941.7	937.6
65°	5503.7	5249.9	2933.1	747.3	680.5	774.5	864.3	870.9	871.7	870.9	870.9
67.5°	5460.8	4960.7	2216.3	594.9	575.9	672.3	771.2	780.2	786.8	788.5	790.1
70°	4976.4	4325.5	1445.1	474.6	482.8	582.5	683.0	692.1	697.8	704.4	707.7
72.5°	3878.9	3180.3	827.2	383.9	401.2	505.1	595.7	606.4	609.7	622.0	627.0
75°	2363.8	1870.3	446.6	302.4	329.6	431.7	509.2	521.5	527.3	542.1	543.8
77.5°	1123.8	809.9	254.6	235.6	265.3	352.6	430.1	444.1	428.4	436.7	430.1
80°	379.8	300.7	160.7	179.6	202.7	275.2	344.4	358.4	325.4	323.8	320.5
82.5°	132.6	121.9	102.2	119.5	131.0	196.9	260.4	278.5	242.2	241.4	229.9
85°	51.9	49.4	56.8	65.1	78.3	121.1	171.4	180.4	149.1	120.3	118.6
87.5°	10.7	11.5	14.0	14.8	23.9	42.0	61.8	75.8	60.1	51.1	47.0
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)