

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: P940762

Luminaire Tested: **GALN-SB4A-727-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940762
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-SB4A-727-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16530 lumens
Efficiency: N/A
Efficacy: 145.0 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): 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



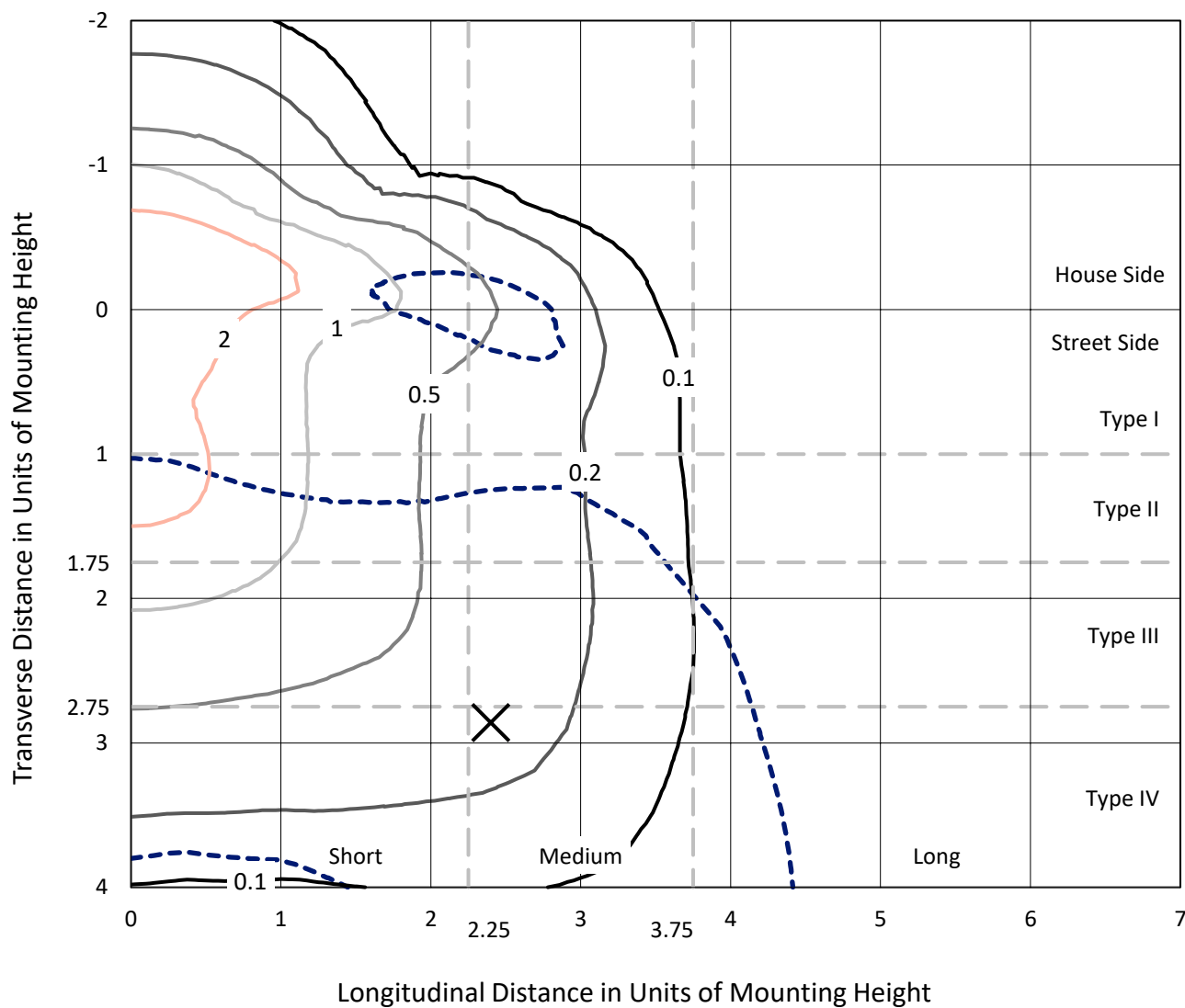
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

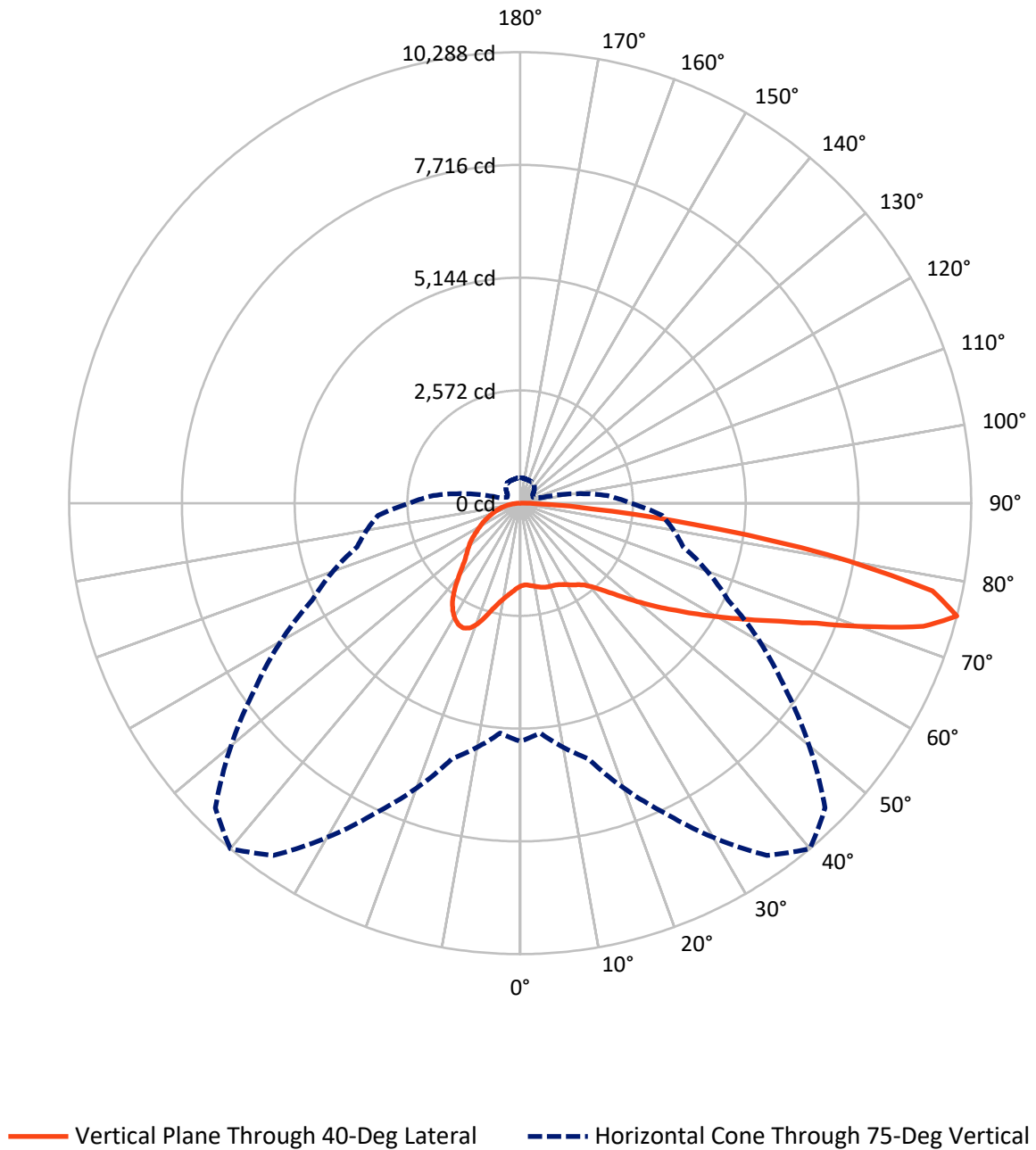


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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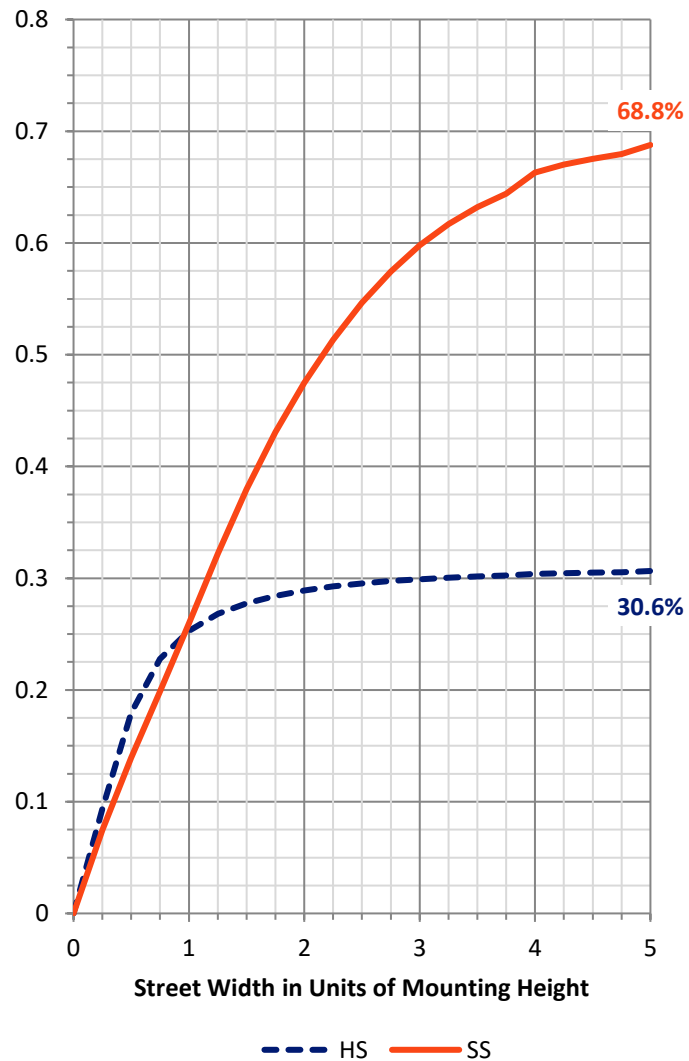
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5121.6	0.0	5121.6
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	11408.5	0.0	11408.5
	% Fixture	69.0	0.0	69.0
Total	Lumens	16530.0	0.0	16530.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.7	1.1
10°-20°	633.5	3.8
20°-30°	1156.7	7.0
30°-40°	1640.5	9.9
40°-50°	2215.2	13.4
50°-60°	2980.0	18.0
60°-70°	3782.3	22.9
70°-80°	3432.7	20.8
80°-90°	500.4	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°	16530.0	100.0
0°-180°	16530.0	100.0

Coefficient of Utilization



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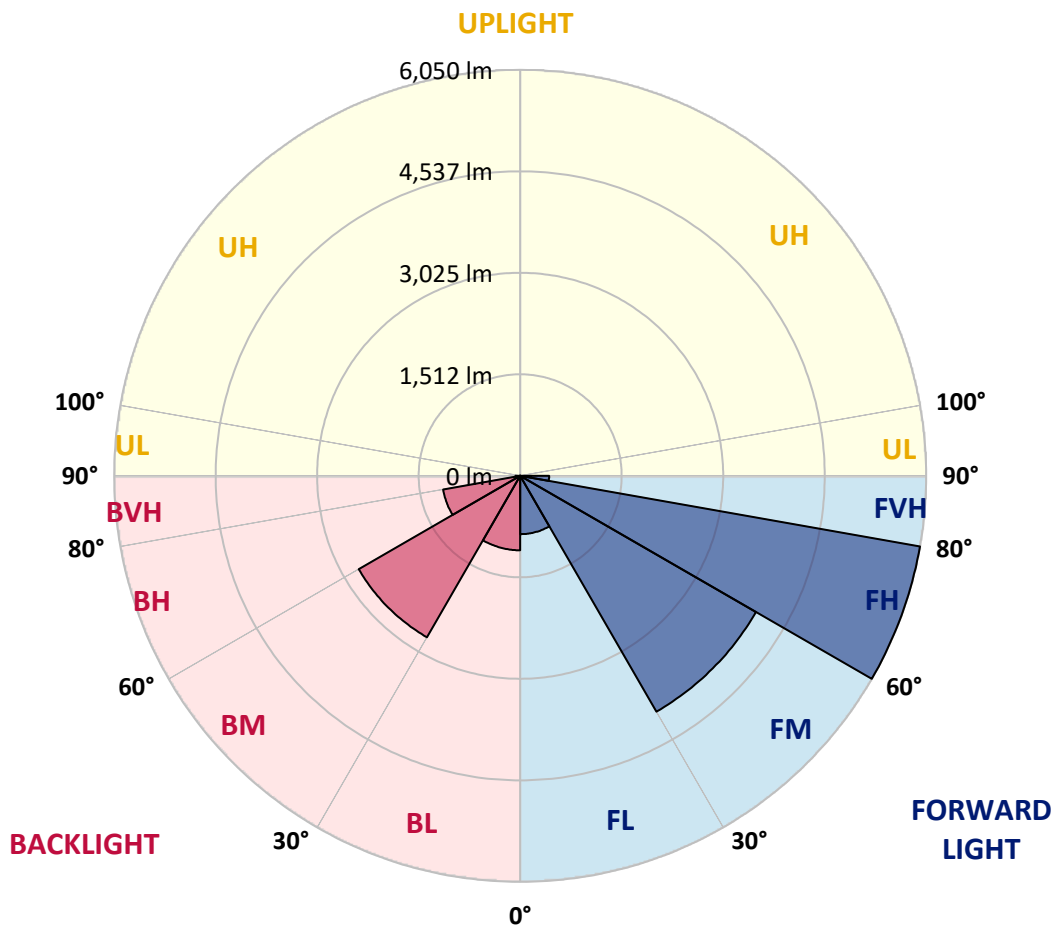
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	869.5	5.3			
FM	(30°-60°)	4057.7	24.5			
FH	(60°-80°)	6049.7	36.6			G3/7500
FVH	(80°-90°)	431.5	2.6			G3/500
BL	(0°-30°)	1109.4	6.7	B3/2500		
BM	(30°-60°)	2778.0	16.8	B3/5000		
BH	(60°-80°)	1165.3	7.0	B3/2500		G3/2500
BVH	(80°-90°)	68.9	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°	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2
2.5°	1861.3	1871.8	1869.2	1865.7	1865.7	1866.6	1865.7	1871.8	1878.0	1884.1	1893.7
5°	1880.6	1891.1	1885.8	1881.5	1878.0	1877.1	1874.4	1873.6	1877.1	1885.0	1898.1
7.5°	1918.3	1928.8	1920.9	1913.0	1906.0	1902.5	1899.0	1893.7	1891.1	1895.5	1913.9
10°	1960.4	1970.9	1961.2	1947.2	1935.8	1931.4	1927.9	1922.7	1919.2	1921.8	1942.0
12.5°	2002.4	2013.0	1999.8	1980.5	1965.6	1963.0	1958.6	1956.9	1956.0	1955.1	1975.3
15°	2041.9	2050.7	2034.0	2011.2	1995.4	1991.1	1986.7	1989.3	1993.7	1998.9	2021.7
17.5°	2072.6	2081.4	2056.8	2027.0	2012.1	2010.3	2007.7	2016.5	2028.8	2041.9	2070.0
20°	2100.6	2109.4	2077.8	2037.5	2020.0	2020.0	2020.9	2039.3	2056.8	2076.1	2114.7
22.5°	2140.1	2147.1	2108.5	2053.3	2027.9	2029.6	2036.6	2055.1	2077.0	2103.3	2156.8
25°	2198.8	2204.1	2156.8	2083.1	2054.2	2059.4	2065.6	2074.3	2095.4	2126.1	2198.0
27.5°	2293.5	2297.9	2235.7	2135.7	2091.9	2100.6	2109.4	2103.3	2112.9	2139.2	2231.3
30°	2426.8	2429.4	2350.5	2218.1	2155.9	2160.3	2162.0	2136.6	2118.2	2139.2	2254.9
32.5°	2584.6	2583.7	2489.9	2318.1	2228.6	2224.3	2209.4	2159.4	2116.4	2134.8	2276.0
35°	2829.2	2819.6	2698.6	2458.3	2311.1	2283.9	2248.8	2184.8	2125.2	2130.5	2294.4
37.5°	3234.3	3204.4	3037.0	2688.1	2433.8	2364.5	2312.8	2226.0	2144.5	2128.7	2316.3
40°	3691.0	3653.3	3469.2	3002.8	2617.9	2506.6	2423.3	2284.8	2176.0	2136.6	2348.8
42.5°	4232.8	4179.4	3981.2	3373.7	2851.1	2689.8	2564.4	2359.3	2222.5	2162.0	2392.6
45°	4898.3	4827.3	4546.7	3791.9	3144.8	2930.0	2762.6	2472.4	2293.5	2211.1	2458.3
47.5°	5570.7	5588.3	5189.4	4270.5	3497.3	3226.4	3010.7	2642.5	2397.0	2290.0	2564.4
50°	6285.3	6297.5	5828.5	4801.0	3897.1	3561.3	3289.5	2832.7	2540.8	2402.2	2723.1
52.5°	6842.9	6844.6	6408.9	5355.9	4313.5	3929.5	3590.2	3050.1	2707.3	2551.3	2934.4
55°	7191.8	7187.4	6815.7	5881.1	4792.2	4316.1	3923.4	3297.4	2910.7	2726.6	3200.1
57.5°	7445.2	7432.0	7096.2	6332.6	5302.5	4772.9	4300.4	3577.9	3151.0	2935.3	3549.9
60°	7541.6	7533.7	7286.5	6722.8	5839.0	5277.9	4735.2	3891.8	3423.6	3181.6	3999.6
62.5°	7578.4	7593.3	7473.2	7100.6	6413.3	5837.3	5213.0	4267.0	3730.5	3460.4	4473.9
65°	7708.2	7735.4	7710.8	7595.1	7062.1	6492.2	5846.9	4713.3	4065.4	3759.4	4969.3
67.5°	7965.1	7992.3	8002.8	8186.9	7854.6	7308.4	6637.7	5269.1	4457.3	4069.8	5341.9
70°	7958.9	7951.1	8136.9	8657.7	8847.1	8438.5	7703.8	5953.0	4924.6	4327.5	5389.3
72.5°	7244.4	7181.3	7620.5	8652.4	9673.0	9618.6	9005.8	6835.0	5327.9	4359.1	4676.5
75°	5434.8	5266.5	6042.4	7797.6	9810.6	10288.4	9833.4	7382.1	5232.3	3851.5	3254.4
77.5°	2324.2	2155.0	3069.4	5772.4	8780.4	9617.7	9074.1	6440.5	4176.7	2546.9	1598.3
80°	608.4	607.6	927.6	2617.0	5971.4	7102.4	6230.9	4159.2	2386.5	910.0	441.0
82.5°	251.6	245.5	341.0	1017.9	2917.8	3985.6	3252.7	1855.2	861.8	246.4	146.4
85°	93.8	92.9	165.7	351.6	1029.3	1643.9	1189.7	474.3	214.8	120.1	65.8
87.5°	26.3	25.4	35.9	121.9	250.7	380.5	203.4	78.0	60.5	47.3	19.3
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°	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2
2.5°	1896.4	1900.7	1908.6	1914.8	1922.7	1931.4	1943.7	1951.6	1959.5	1964.7	1961.2
5°	1904.3	1913.9	1934.1	1954.2	1977.9	1999.8	2025.2	2043.7	2058.6	2062.9	2064.7
7.5°	1921.8	1937.6	1971.8	2006.0	2043.7	2079.6	2116.4	2148.0	2173.4	2183.1	2183.9
10°	1952.5	1973.5	2021.7	2070.0	2119.9	2175.2	2222.5	2268.1	2304.0	2318.9	2319.8
12.5°	1991.1	2017.4	2080.5	2147.1	2216.4	2292.6	2354.0	2410.1	2454.8	2475.0	2475.0
15°	2041.0	2075.2	2155.9	2245.3	2347.0	2453.1	2531.1	2593.4	2643.3	2667.9	2666.1
17.5°	2095.4	2141.0	2242.7	2377.7	2523.2	2662.6	2753.8	2799.4	2851.1	2874.8	2873.9
20°	2148.0	2204.1	2349.6	2546.0	2739.8	2887.9	2961.6	2973.9	2977.4	2980.0	2987.0
22.5°	2202.3	2277.7	2483.8	2758.2	2966.0	3068.6	3079.1	3026.5	2952.8	2918.6	2928.3
25°	2262.0	2361.9	2659.1	2992.3	3160.6	3172.9	3092.2	2964.2	2824.8	2760.8	2770.5
27.5°	2319.8	2459.2	2869.5	3215.8	3300.9	3193.0	3019.5	2838.0	2669.6	2602.1	2610.0
30°	2377.7	2570.6	3101.9	3411.4	3364.9	3143.1	2904.6	2702.1	2532.9	2461.9	2469.7
32.5°	2436.4	2700.3	3369.3	3552.5	3353.5	3037.0	2761.7	2549.5	2400.5	2326.0	2335.6
35°	2503.1	2859.9	3622.6	3629.7	3277.2	2880.9	2573.2	2367.2	2237.4	2177.8	2190.9
37.5°	2589.9	3062.4	3846.2	3648.9	3143.9	2652.1	2339.1	2151.5	2044.5	2017.4	2036.6
40°	2697.7	3306.1	4017.2	3618.3	2946.7	2374.2	2083.1	1933.2	1872.7	1878.8	1899.9
42.5°	2838.0	3578.8	4137.3	3539.4	2672.3	2087.5	1858.7	1792.0	1821.0	1845.5	1868.3
45°	3020.3	3862.0	4211.8	3405.2	2361.9	1844.6	1726.3	1742.1	1764.0	1766.6	1784.1
47.5°	3253.5	4148.7	4260.9	3202.7	2045.4	1673.7	1642.1	1645.6	1641.2	1622.8	1636.9
50°	3544.6	4427.5	4304.7	2934.4	1776.3	1566.7	1524.6	1512.4	1451.9	1392.2	1400.1
52.5°	3876.0	4683.5	4323.2	2601.3	1566.7	1477.3	1408.9	1331.8	1218.7	1200.2	1206.4
55°	4244.2	4920.2	4275.8	2191.8	1390.5	1362.4	1259.0	1166.0	1153.8	1138.0	1140.6
57.5°	4684.4	5175.3	4179.4	1735.0	1209.9	1228.3	1127.5	1138.0	1116.1	1091.5	1087.1
60°	5165.7	5439.2	4010.2	1318.6	1023.1	1060.8	1093.3	1092.4	1086.3	1066.1	1059.1
62.5°	5598.8	5612.8	3677.0	1010.0	859.2	931.1	1019.6	1018.8	1013.5	1002.1	997.7
65°	5856.5	5586.5	3121.2	795.2	724.2	824.1	919.7	926.7	927.6	926.7	926.7
67.5°	5811.0	5278.8	2358.4	633.0	612.8	715.4	820.6	830.3	837.3	839.0	840.8
70°	5295.4	4602.8	1537.8	505.0	513.8	619.8	726.8	736.5	742.6	749.6	753.1
72.5°	4127.6	3384.2	880.2	408.6	427.0	537.4	633.9	645.3	648.8	661.9	667.2
75°	2515.3	1990.2	475.2	321.8	350.7	459.4	541.8	555.0	561.1	576.9	578.6
77.5°	1195.9	861.8	270.9	250.7	282.3	375.2	457.7	472.6	455.9	464.7	457.7
80°	404.2	320.0	171.0	191.1	215.7	292.8	366.5	381.4	346.3	344.6	341.0
82.5°	141.2	129.8	108.7	127.1	139.4	209.5	277.0	296.3	257.8	256.9	244.6
85°	55.2	52.6	60.5	69.3	83.3	128.9	182.4	192.0	158.7	128.0	126.2
87.5°	11.4	12.3	14.9	15.8	25.4	44.7	65.8	80.7	64.0	54.4	50.0
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)