

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: P939907

Luminaire Tested: **GALN-SB2D-722-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-722-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16822 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 147.6
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

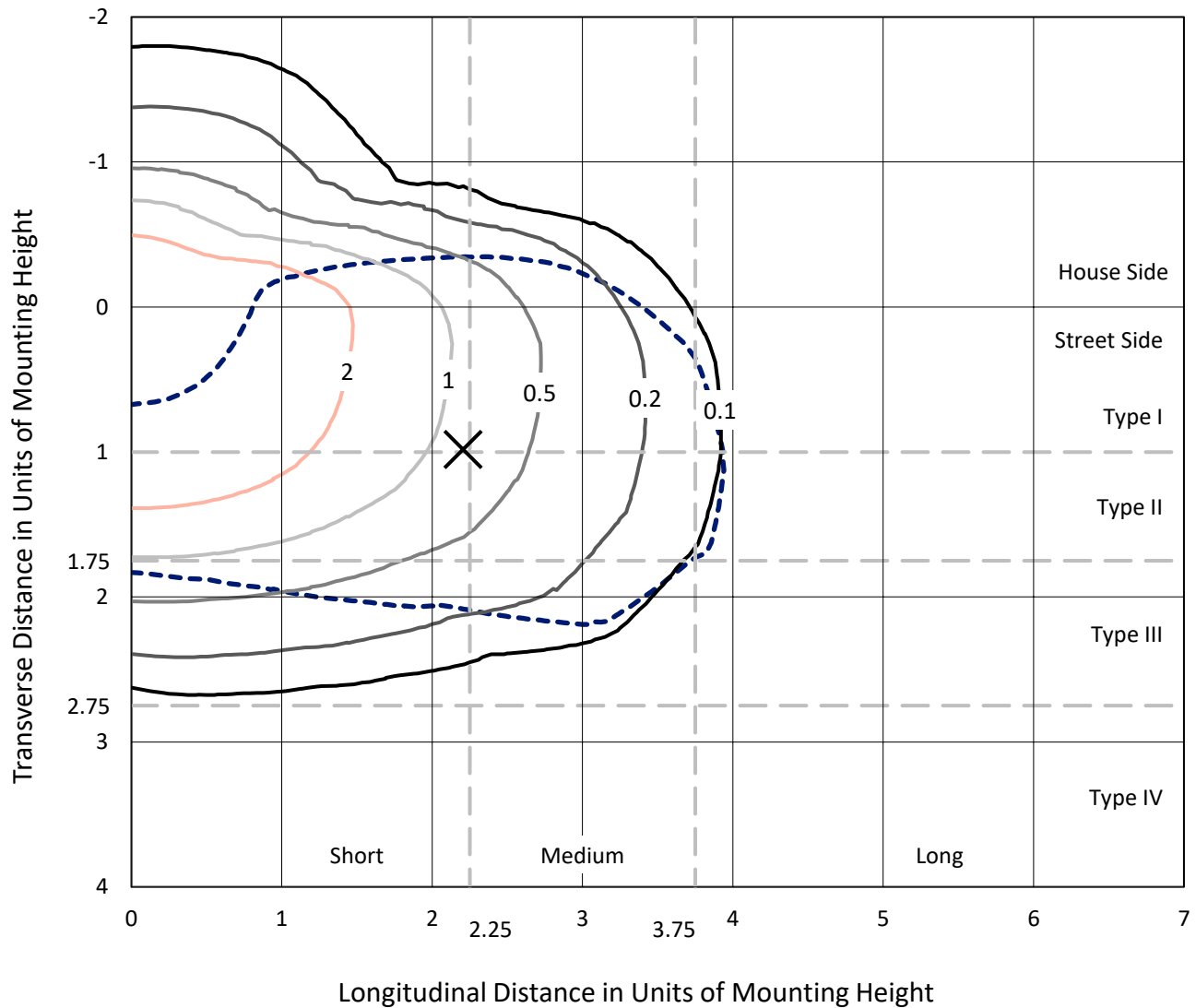


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

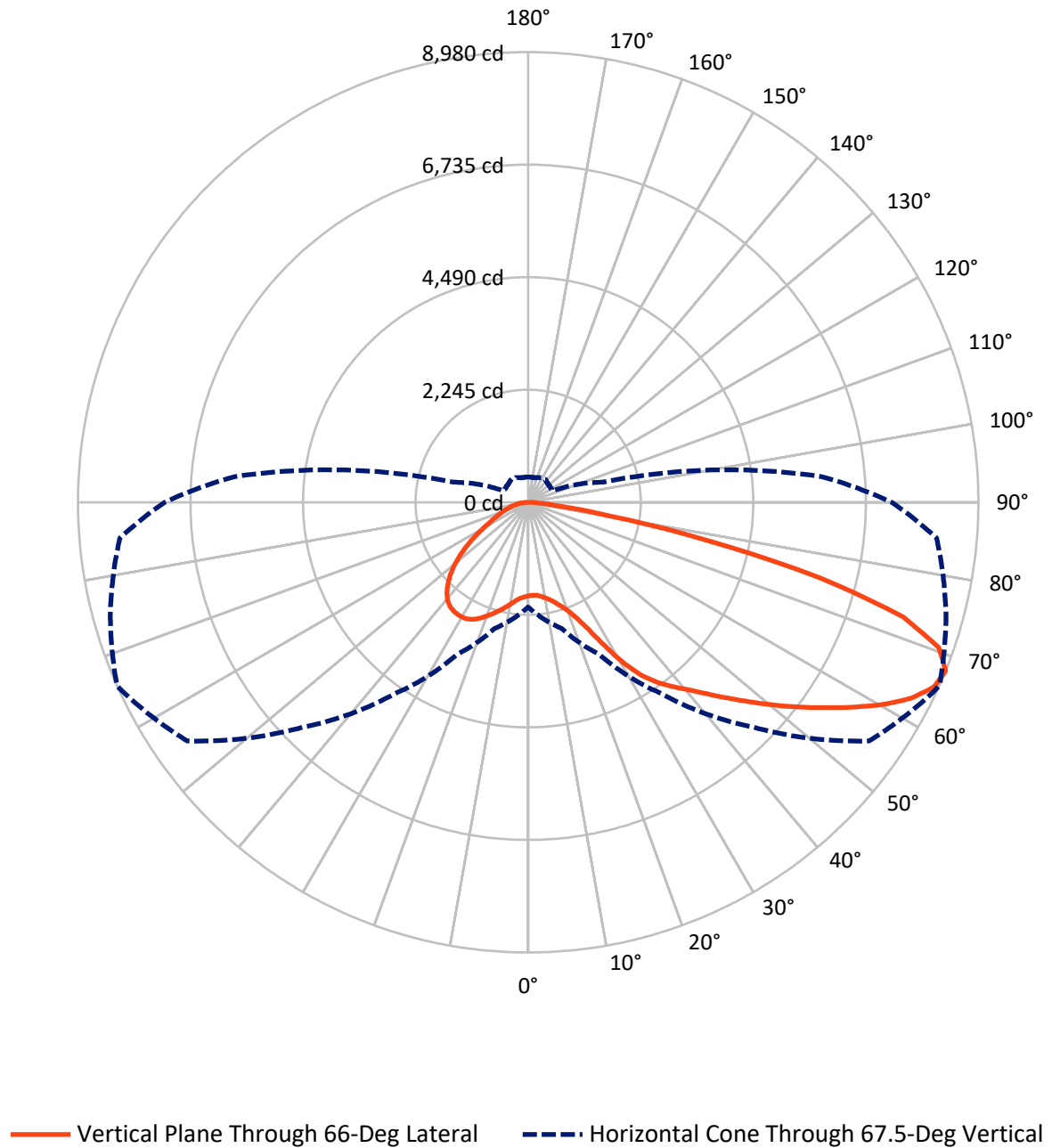


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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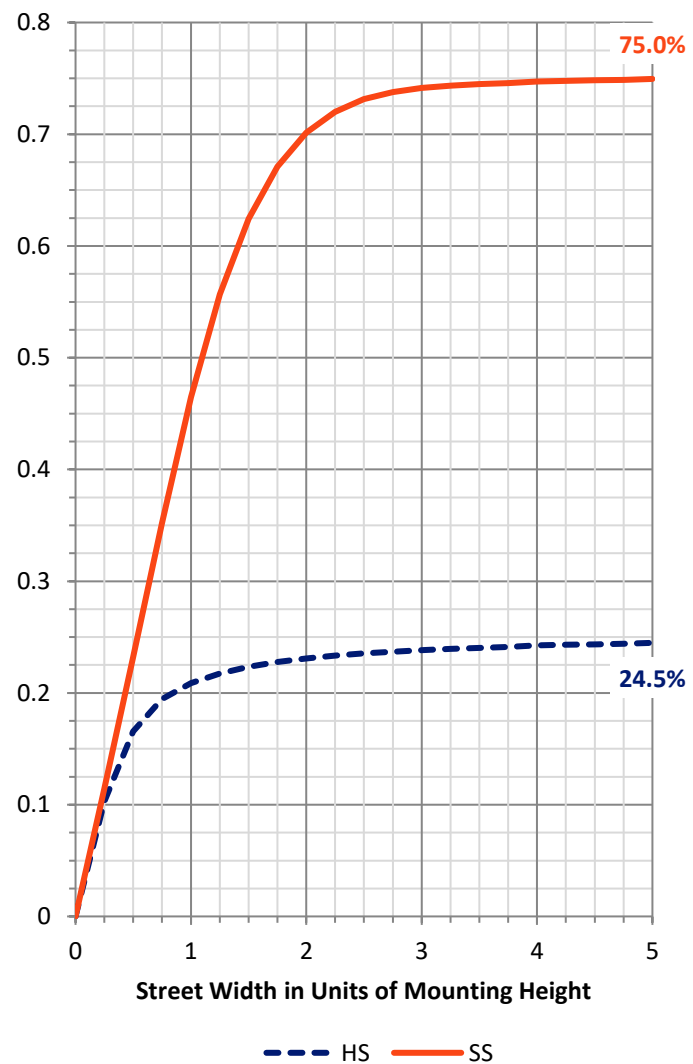
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4182.7	0.0	4182.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	12639.3	0.0	12639.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	16822.0	0.0	16822.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.0	1.1
10°-20°	611.2	3.6
20°-30°	1178.0	7.0
30°-40°	2065.4	12.3
40°-50°	3070.6	18.3
50°-60°	3892.3	23.1
60°-70°	3808.5	22.6
70°-80°	1816.7	10.8
80°-90°	194.2	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°	16822.0	100.0
0°-180°	16822.0	100.0

Coefficient of Utilization



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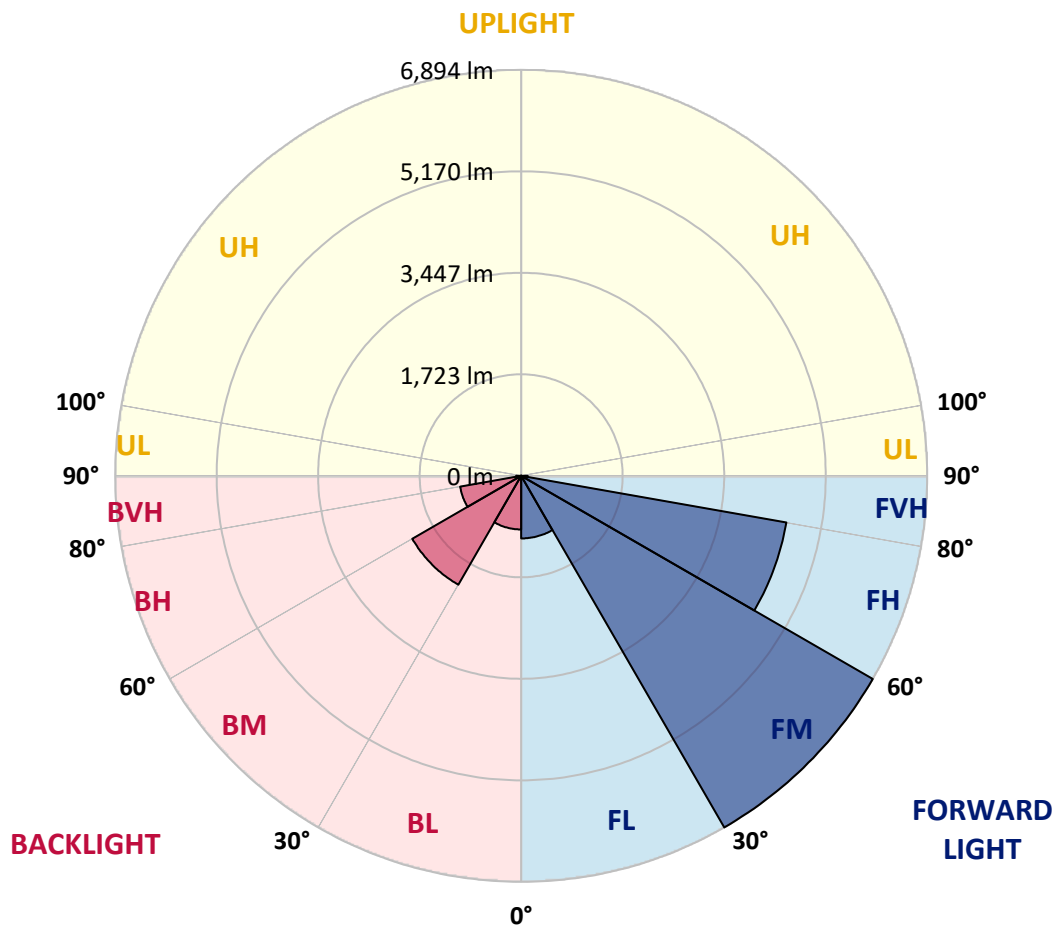
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1063.0	6.3			
FM	(30°-60°)	6893.5	41.0			
FH	(60°-80°)	4572.7	27.2			G2/5000
FVH	(80°-90°)	110.1	0.7			G2/225
BL	(0°-30°)	911.2	5.4	B2/1000		
BM	(30°-60°)	2134.9	12.7	B2/2500		
BH	(60°-80°)	1052.6	6.3	B3/2500		G3/2500
BVH	(80°-90°)	84.1	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1865.8	1865.8	1865.8	1865.8	1865.8	1865.8	1865.8	1865.8	1865.8	1865.8	1865.8
2.5°	1846.3	1856.9	1854.3	1849.9	1849.0	1850.8	1853.4	1856.1	1855.2	1859.6	1866.7
5°	1841.0	1851.6	1850.8	1850.8	1854.3	1861.4	1865.8	1870.2	1865.8	1871.1	1880.8
7.5°	1844.6	1852.5	1856.1	1859.6	1868.4	1881.7	1892.3	1902.0	1896.7	1902.9	1915.3
10°	1889.6	1895.8	1899.4	1899.4	1905.6	1920.6	1931.2	1948.9	1944.4	1954.2	1970.1
12.5°	1971.8	1978.0	1978.0	1974.5	1978.9	1988.6	1992.2	2011.6	2003.7	2019.6	2035.5
15°	2072.6	2085.0	2075.3	2069.1	2070.8	2080.6	2079.7	2094.7	2086.7	2100.0	2114.1
17.5°	2184.0	2199.9	2184.0	2183.1	2179.5	2190.2	2191.0	2204.3	2190.2	2199.9	2209.6
20°	2315.7	2337.8	2324.5	2328.9	2321.0	2325.4	2329.8	2349.2	2327.1	2334.2	2331.6
22.5°	2501.3	2527.8	2513.6	2530.4	2525.1	2521.6	2520.7	2555.2	2520.7	2523.4	2497.7
25°	2771.7	2803.5	2778.8	2801.8	2801.8	2813.3	2826.5	2870.7	2813.3	2796.5	2730.2
27.5°	3171.2	3203.0	3154.4	3168.6	3164.1	3192.4	3178.3	3287.9	3226.0	3198.6	3065.2
30°	3652.0	3708.6	3616.7	3613.1	3608.7	3653.8	3674.1	3746.6	3683.8	3656.4	3495.6
32.5°	4171.7	4230.9	4121.3	4089.5	4072.7	4100.1	4083.3	4141.7	4098.4	4055.9	3857.1
35°	4721.5	4779.8	4675.5	4613.6	4546.5	4489.0	4428.9	4443.9	4403.3	4338.8	4132.8
37.5°	5241.2	5348.1	5237.6	5171.3	5047.6	4935.4	4767.4	4697.6	4659.6	4600.4	4392.7
40°	5770.6	5831.6	5747.6	5691.0	5556.7	5380.8	5112.1	4964.5	4913.3	4855.8	4679.9
42.5°	6160.4	6218.7	6173.6	6134.7	6029.5	5825.4	5478.0	5293.3	5219.1	5154.5	5005.2
45°	6469.7	6513.0	6484.7	6498.9	6453.8	6255.8	5857.2	5646.0	5569.1	5490.4	5372.9
47.5°	6594.3	6640.3	6685.4	6769.3	6846.2	6700.4	6264.6	6027.8	5946.5	5866.0	5750.3
50°	6580.2	6627.0	6757.8	6936.4	7175.0	7126.4	6694.2	6434.3	6359.2	6267.3	6160.4
52.5°	6467.0	6520.1	6688.0	6985.0	7365.0	7445.5	7131.7	6854.2	6783.5	6673.9	6566.9
55°	6170.1	6201.9	6453.8	6874.5	7410.1	7668.2	7560.4	7301.4	7230.7	7077.8	6961.1
57.5°	5619.4	5665.4	6032.2	6576.6	7297.0	7819.3	7936.9	7771.6	7703.5	7483.5	7361.5
60°	4900.9	4974.2	5394.1	6076.4	7008.8	7818.4	8278.9	8233.8	8177.3	7883.0	7755.7
62.5°	4087.8	4172.6	4576.5	5369.3	6505.0	7596.6	8492.8	8621.0	8591.8	8251.5	8088.9
65°	3139.4	3197.7	3599.9	4454.5	5721.1	7120.2	8517.5	8885.2	8890.5	8531.7	8263.0
67.5°	2090.3	2258.2	2607.3	3342.7	4671.1	6341.5	8300.1	8928.5	8979.8	8628.0	8175.5
70°	1019.9	1240.9	1583.0	2172.5	3342.7	5147.5	7731.8	8573.2	8687.2	8347.0	7654.0
72.5°	423.4	494.9	681.4	1072.1	1918.8	3473.5	6589.9	7609.8	7821.1	7396.0	6435.2
75°	285.5	309.3	389.8	549.7	874.1	1712.9	4752.4	5674.2	6014.5	5585.9	4565.9
77.5°	220.1	235.1	283.7	384.5	519.7	647.9	2543.7	3419.6	3595.5	3328.5	2375.8
80°	173.2	184.7	212.1	280.2	368.6	346.5	867.0	1549.4	1651.0	1385.0	763.6
82.5°	150.3	154.7	152.0	190.0	244.8	202.4	284.6	571.8	631.1	457.8	249.2
85°	108.7	121.1	126.4	117.6	129.9	102.5	116.7	202.4	222.7	198.9	140.5
87.5°	44.2	65.4	80.4	76.0	47.7	29.2	36.2	59.2	68.1	74.2	46.0
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°	1865.8	1865.8	1865.8	1865.8	1865.8	1865.8	1865.8	1865.8	1865.8	1865.8	1865.8
2.5°	1867.5	1873.7	1878.2	1883.5	1887.0	1892.3	1902.9	1909.1	1910.0	1914.4	1913.5
5°	1884.3	1893.2	1902.9	1917.0	1933.0	1946.2	1966.5	1980.7	1986.0	1990.4	1989.5
7.5°	1920.6	1933.0	1950.6	1975.4	1998.4	2016.0	2040.8	2057.6	2074.4	2080.6	2081.4
10°	1974.5	1992.2	2017.8	2051.4	2076.1	2099.1	2124.7	2138.9	2155.7	2162.8	2166.3
12.5°	2041.7	2060.2	2093.8	2140.7	2163.6	2179.5	2188.4	2184.8	2188.4	2194.6	2196.3
15°	2118.6	2138.9	2176.9	2227.3	2243.2	2229.0	2209.6	2191.9	2189.3	2191.0	2197.2
17.5°	2209.6	2224.6	2268.8	2311.2	2299.7	2241.4	2199.0	2170.7	2156.6	2152.1	2158.3
20°	2336.9	2336.9	2373.1	2399.6	2322.7	2223.7	2157.4	2111.5	2082.3	2069.9	2067.3
22.5°	2491.5	2477.4	2500.4	2481.8	2318.3	2174.2	2082.3	2002.8	1958.6	1940.9	1938.3
25°	2687.8	2671.0	2664.8	2549.9	2286.5	2095.6	1946.2	1849.9	1811.0	1801.3	1803.0
27.5°	2983.8	2941.4	2861.0	2587.0	2228.2	1971.8	1787.1	1697.9	1675.8	1676.6	1679.3
30°	3378.0	3293.2	3096.1	2593.2	2132.7	1796.8	1624.5	1560.9	1550.3	1554.7	1569.7
32.5°	3743.1	3662.6	3336.5	2564.9	1986.0	1625.4	1478.7	1436.2	1420.3	1425.6	1432.7
35°	4029.4	4007.3	3559.2	2525.1	1805.7	1464.5	1347.9	1311.6	1280.7	1273.6	1278.9
37.5°	4299.9	4291.0	3726.3	2469.4	1627.1	1350.5	1242.7	1194.9	1149.9	1125.1	1126.0
40°	4596.8	4588.0	3835.9	2383.7	1468.9	1251.5	1148.1	1085.4	1029.7	984.6	989.0
42.5°	4930.9	4878.8	3888.0	2260.9	1334.6	1167.6	1071.2	986.4	913.0	871.5	874.1
45°	5296.0	5178.4	3887.1	2104.4	1221.5	1090.7	989.0	868.8	800.8	761.9	760.1
47.5°	5683.1	5464.8	3839.4	1931.2	1111.9	1005.8	861.7	769.8	724.7	700.9	695.6
50°	6082.6	5732.6	3758.1	1732.3	999.6	909.5	782.2	719.4	685.0	662.9	654.9
52.5°	6458.2	5975.6	3660.0	1506.9	885.6	815.8	746.8	698.2	662.0	637.2	626.6
55°	6807.3	6185.1	3521.2	1276.3	792.8	753.0	730.1	689.4	647.9	618.7	607.2
57.5°	7117.5	6321.2	3281.7	1059.7	726.5	709.7	712.4	674.4	626.6	601.9	586.0
60°	7375.6	6421.1	2927.3	859.1	672.6	667.3	685.0	646.1	590.4	562.1	549.7
62.5°	7530.3	6419.3	2492.4	703.5	626.6	628.4	648.7	610.7	554.2	527.7	519.7
65°	7517.0	6262.0	2015.2	601.9	582.4	584.2	610.7	571.8	524.1	508.2	507.3
67.5°	7251.0	5878.4	1545.8	535.6	533.8	541.8	572.7	545.3	505.6	503.8	506.4
70°	6530.7	5082.1	1113.6	482.6	483.5	494.9	535.6	528.5	495.8	499.4	498.5
72.5°	5236.7	3874.7	747.7	426.9	427.8	446.3	500.3	515.3	486.1	533.0	540.0
75°	3487.6	2416.4	480.8	367.7	368.6	392.4	469.3	489.6	459.6	531.2	535.6
77.5°	1675.8	1086.2	348.2	309.3	309.3	331.4	405.7	438.4	391.5	412.8	378.3
80°	578.9	408.3	274.0	249.2	243.9	259.0	342.0	380.1	337.6	311.1	291.7
82.5°	228.0	212.1	220.1	193.6	175.9	185.6	266.0	313.8	248.4	224.5	223.6
85°	130.8	137.9	155.6	128.2	101.6	114.0	195.3	225.4	187.4	165.3	168.8
87.5°	35.4	48.6	71.6	66.3	46.0	48.6	92.8	124.6	107.8	83.1	85.7
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)