

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: P953401

Luminaire Tested: **GALN-SB7A-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-722-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26802 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 199.1
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

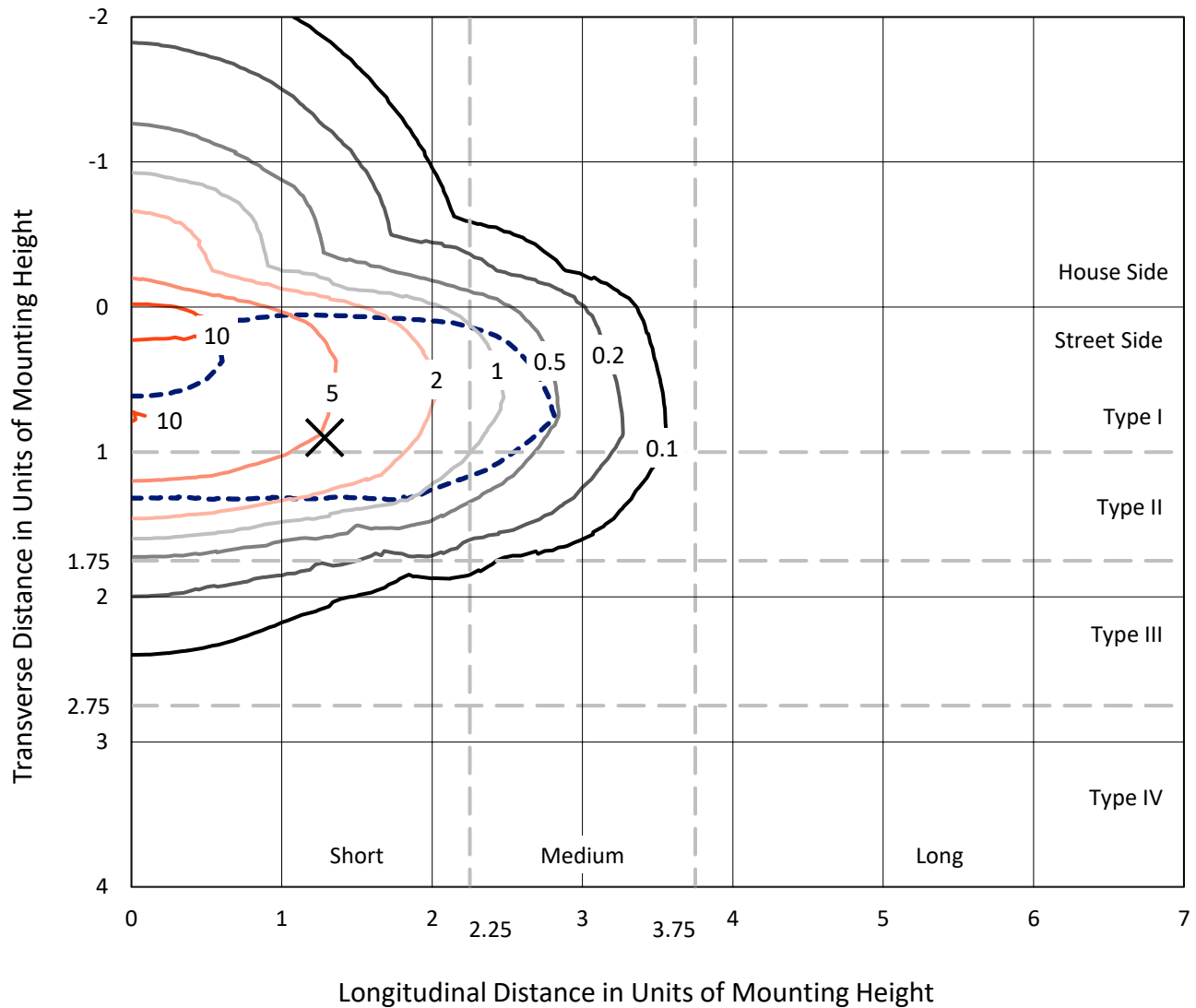


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

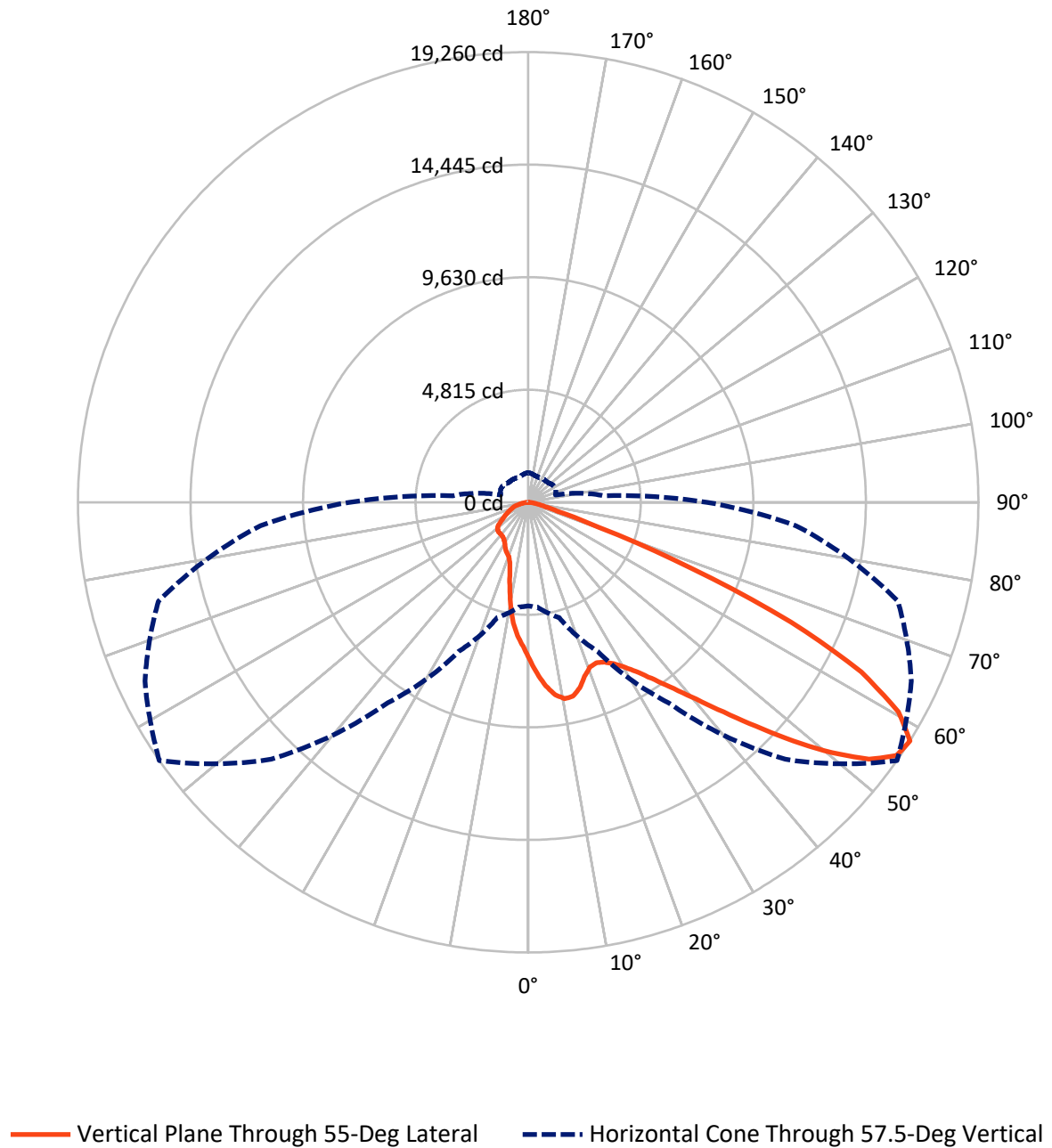


Based on 25 foot mounting height. Maximum calculated value = 13 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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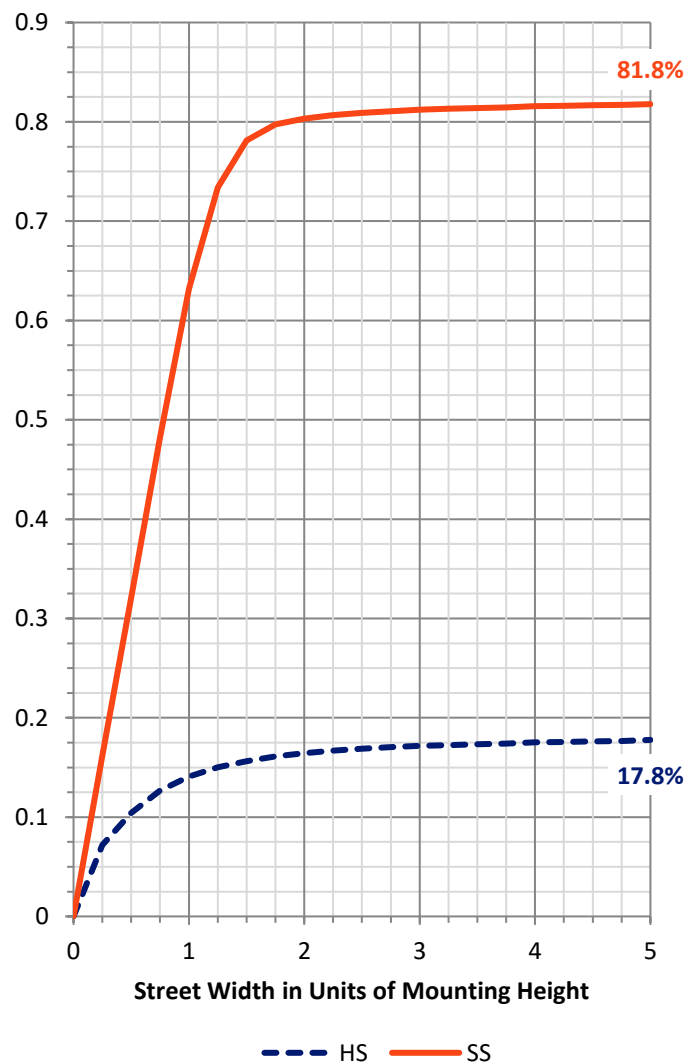
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4849.7	0.0	4849.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	21952.3	0.0	21952.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	26802.0	0.0	26802.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	623.2	2.3
10°-20°	1572.9	5.9
20°-30°	2510.0	9.4
30°-40°	3973.9	14.8
40°-50°	6082.4	22.7
50°-60°	6514.8	24.3
60°-70°	4098.5	15.3
70°-80°	1212.0	4.5
80°-90°	214.3	0.8
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°	26802.0	100.0
0°-180°	26802.0	100.0

Coefficient of Utilization



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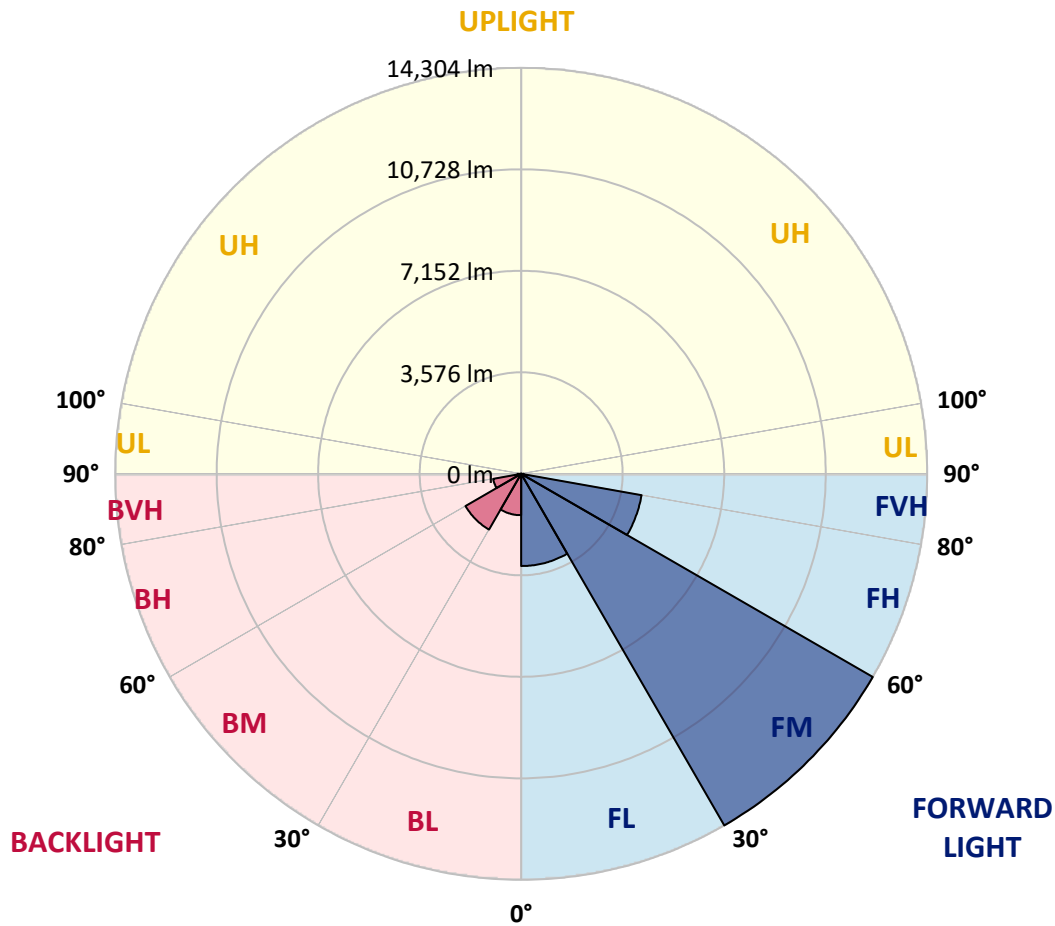
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3248.4	12.1			
FM	(30°-60°)	14304.4	53.4			
FH	(60°-80°)	4308.9	16.1			G2/5000
FVH	(80°-90°)	90.5	0.3			G1/100
BL	(0°-30°)	1457.7	5.4	B3/2500		
BM	(30°-60°)	2266.7	8.5	B2/2500		
BH	(60°-80°)	1001.6	3.7	B3/2500		G3/2500
BVH	(80°-90°)	123.8	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6715.7	6715.7	6715.7	6715.7	6715.7	6715.7	6715.7	6715.7	6715.7	6715.7	6715.7
2.5°	7705.0	7699.4	7729.9	7626.0	7555.3	7459.7	7333.7	7172.9	6999.7	6816.9	6737.9
5°	8399.1	8350.6	8382.5	8304.9	8227.3	8083.2	7896.2	7634.3	7314.3	6949.9	6755.9
7.5°	8289.7	8256.4	8338.2	8407.5	8465.6	8447.6	8310.5	8036.1	7623.2	7094.0	6812.7
10°	7407.1	7369.7	7484.7	7724.4	8076.3	8382.5	8548.8	8378.4	7939.1	7251.9	6868.1
12.5°	6628.4	6610.4	6686.6	6880.6	7271.3	7858.8	8518.3	8677.6	8267.5	7439.0	6942.9
15°	6295.9	6273.7	6322.2	6420.6	6670.0	7217.3	8241.2	8882.7	8590.3	7655.1	7062.1
17.5°	6222.5	6197.5	6218.3	6269.6	6430.3	6847.3	7822.8	8983.8	8927.0	7896.2	7161.9
20°	6358.2	6337.5	6340.2	6337.5	6449.7	6780.8	7531.8	8945.0	9220.8	8117.9	7258.8
22.5°	6686.6	6652.0	6653.4	6579.9	6640.9	6897.2	7455.6	8841.1	9482.6	8311.9	7332.3
25°	7221.4	7159.1	7171.6	6984.5	6967.9	7157.7	7574.7	8760.8	9743.1	8467.0	7346.1
27.5°	7953.0	7882.3	7844.9	7566.4	7433.4	7527.6	7817.2	8788.5	9989.7	8601.4	7311.5
30°	8867.5	8781.6	8705.3	8310.5	8069.4	8034.7	8194.1	8971.4	10280.7	8742.8	7251.9
32.5°	9988.4	9888.6	9750.0	9226.3	8886.9	8705.3	8681.8	9297.0	10621.5	8922.9	7221.4
35°	11322.6	11192.4	10995.6	10318.1	9888.6	9517.3	9324.7	9766.7	11088.5	9194.4	7256.1
37.5°	12697.1	12550.2	12370.1	11563.7	11035.8	10488.5	10108.9	10404.0	11710.6	9563.0	7347.5
40°	13964.9	13800.0	13632.3	12914.6	12347.9	11688.4	11069.1	11210.4	12471.2	10003.6	7502.7
42.5°	14713.0	14591.1	14527.4	14139.4	13701.6	13032.4	12263.4	12166.4	13326.1	10510.7	7680.0
45°	14679.8	14629.9	14826.7	14987.4	14883.5	14512.1	13662.8	13223.6	14183.8	10949.9	7843.5
47.5°	13895.6	13928.8	14368.0	15271.4	15669.1	15863.0	15256.2	14261.4	14929.2	11278.3	7917.0
50°	11761.8	11789.6	12806.5	14754.6	15871.4	16964.5	16837.1	15274.2	15507.0	11479.2	7900.3
52.5°	10072.9	10090.9	10527.3	13222.2	15203.5	17518.8	18261.4	16228.8	15929.6	11534.6	7807.5
55°	7587.2	7649.6	8138.7	10373.5	13466.1	17079.5	19128.8	17212.6	16197.0	11540.2	7710.5
57.5°	4432.3	4500.2	5104.3	7041.3	10466.4	15548.5	19260.4	18085.5	16378.5	11495.8	7652.3
60°	2171.1	2200.2	2463.5	3700.8	6453.8	12598.7	18201.8	18508.0	16479.6	11472.3	7649.6
62.5°	1463.1	1459.0	1470.1	1826.1	3179.8	8094.3	15996.1	17768.2	16425.6	11382.2	7621.9
65°	1258.1	1242.8	1201.3	1281.6	1647.4	3702.2	12359.0	15559.6	16014.1	11156.4	7432.0
67.5°	1087.6	1089.0	1090.4	1065.5	1176.3	1708.4	7552.6	12256.5	14537.1	10086.7	6700.5
70°	900.6	913.1	918.6	918.6	958.8	1120.9	3224.2	8400.5	11466.7	7908.7	5396.7
72.5°	820.2	793.9	796.7	782.8	782.8	853.5	1298.3	4762.1	7224.2	4449.0	3293.4
75°	669.2	685.8	688.6	678.9	647.0	651.2	770.4	1997.9	3091.1	1845.5	1628.0
77.5°	577.8	577.8	583.3	576.4	551.4	487.7	514.0	774.5	1051.6	756.5	813.3
80°	464.2	462.8	486.3	500.2	461.4	360.2	328.4	428.1	466.9	332.5	422.6
82.5°	225.8	239.7	333.9	381.0	350.5	260.5	200.9	266.0	249.4	146.9	189.8
85°	131.6	124.7	149.6	212.0	200.9	144.1	97.0	138.6	130.2	74.8	76.2
87.5°	41.6	38.8	30.5	72.0	58.2	40.2	26.3	40.2	36.0	16.6	16.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6715.7	6715.7	6715.7	6715.7	6715.7	6715.7	6715.7	6715.7	6715.7	6715.7
2.5°	6639.5	6476.0	6313.9	6165.7	6075.6	6017.4	5959.2	5894.1	5869.1	5831.7
5°	6573.0	6257.1	5975.8	5733.4	5513.1	5339.9	5165.3	5024.0	4960.2	5003.2
7.5°	6534.2	6077.0	5643.3	5198.5	4770.4	4428.2	4130.3	3921.1	3826.9	3850.4
10°	6499.6	5873.3	5212.4	4509.9	3894.8	3470.8	3166.0	3006.6	2947.0	2959.5
12.5°	6467.7	5644.7	4692.8	3768.7	3114.7	2834.8	2747.5	2748.9	2760.0	2768.3
15°	6462.2	5369.0	4112.3	3120.2	2693.5	2675.5	2769.7	2829.3	2861.1	2870.8
17.5°	6453.8	5039.2	3520.7	2678.2	2591.0	2712.9	2800.2	2839.0	2863.9	2865.3
20°	6420.6	4620.8	2974.8	2467.6	2568.8	2674.1	2728.1	2758.6	2779.4	2786.3
22.5°	6318.1	4155.2	2549.4	2373.4	2480.1	2564.6	2628.4	2663.0	2675.5	2683.8
25°	6133.8	3634.3	2255.7	2283.4	2356.8	2463.5	2514.8	2521.7	2517.5	2530.0
27.5°	5892.7	3075.9	2072.8	2161.4	2255.7	2347.1	2374.8	2370.7	2362.3	2376.2
30°	5601.7	2574.3	1956.4	2024.3	2153.1	2236.3	2261.2	2251.5	2234.9	2250.1
32.5°	5294.1	2164.2	1860.8	1928.7	2068.6	2150.4	2175.3	2165.6	2153.1	2165.6
35°	5007.3	1877.4	1772.1	1864.9	2002.1	2082.5	2114.3	2115.7	2115.7	2131.0
37.5°	4744.1	1709.8	1698.7	1824.8	1956.4	2028.4	2074.2	2076.9	2017.3	2021.5
40°	4500.2	1639.1	1665.4	1798.4	1912.0	1981.3	1984.1	1828.9	1719.5	1716.7
42.5°	4300.7	1625.2	1675.1	1795.7	1880.2	1882.9	1687.6	1567.0	1536.6	1537.9
45°	4113.7	1621.1	1697.3	1795.7	1833.1	1626.6	1495.0	1463.1	1465.9	1477.0
47.5°	3904.5	1604.5	1701.4	1770.7	1697.3	1446.5	1407.7	1393.9	1388.3	1391.1
50°	3675.8	1544.9	1648.8	1720.8	1464.5	1368.9	1320.4	1316.3	1323.2	1327.3
52.5°	3434.8	1447.9	1558.7	1630.8	1357.8	1301.0	1247.0	1256.7	1287.2	1296.9
55°	3276.8	1334.3	1439.6	1450.7	1283.0	1237.3	1191.6	1213.7	1270.5	1288.6
57.5°	3235.2	1213.7	1303.8	1291.3	1187.4	1181.9	1154.2	1173.6	1245.6	1271.9
60°	3222.8	1105.7	1170.8	1161.1	1094.6	1120.9	1114.0	1123.7	1148.6	1156.9
62.5°	3125.8	1019.8	1051.6	1037.8	1011.4	1057.2	1073.8	1053.0	1072.4	1082.1
65°	2879.2	950.5	935.2	925.5	936.6	978.2	1011.4	969.9	987.9	1015.6
67.5°	2471.8	856.3	814.7	825.8	860.4	882.6	925.5	878.4	893.7	940.8
70°	1999.3	737.1	699.7	731.6	764.8	810.5	817.5	785.6	821.6	874.3
72.5°	1414.6	616.6	590.2	655.4	666.4	726.0	710.8	695.5	745.4	763.4
75°	981.0	497.4	482.2	532.0	572.2	623.5	612.4	630.4	735.7	744.0
77.5°	620.7	386.6	376.9	408.7	464.2	521.0	539.0	744.0	1256.7	1306.6
80°	360.2	288.2	277.1	302.0	350.5	403.2	519.6	913.1	828.6	818.9
82.5°	200.9	198.1	184.3	191.2	234.2	291.0	734.3	642.9	522.3	539.0
85°	94.2	116.4	99.8	95.6	131.6	340.8	490.5	367.2	243.9	238.3
87.5°	24.9	22.2	22.2	24.9	55.4	293.7	195.4	156.6	92.8	90.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)