

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: P947694

Luminaire Tested: **GALN-SB3A-722-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3A-722-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10866 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 84.7
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

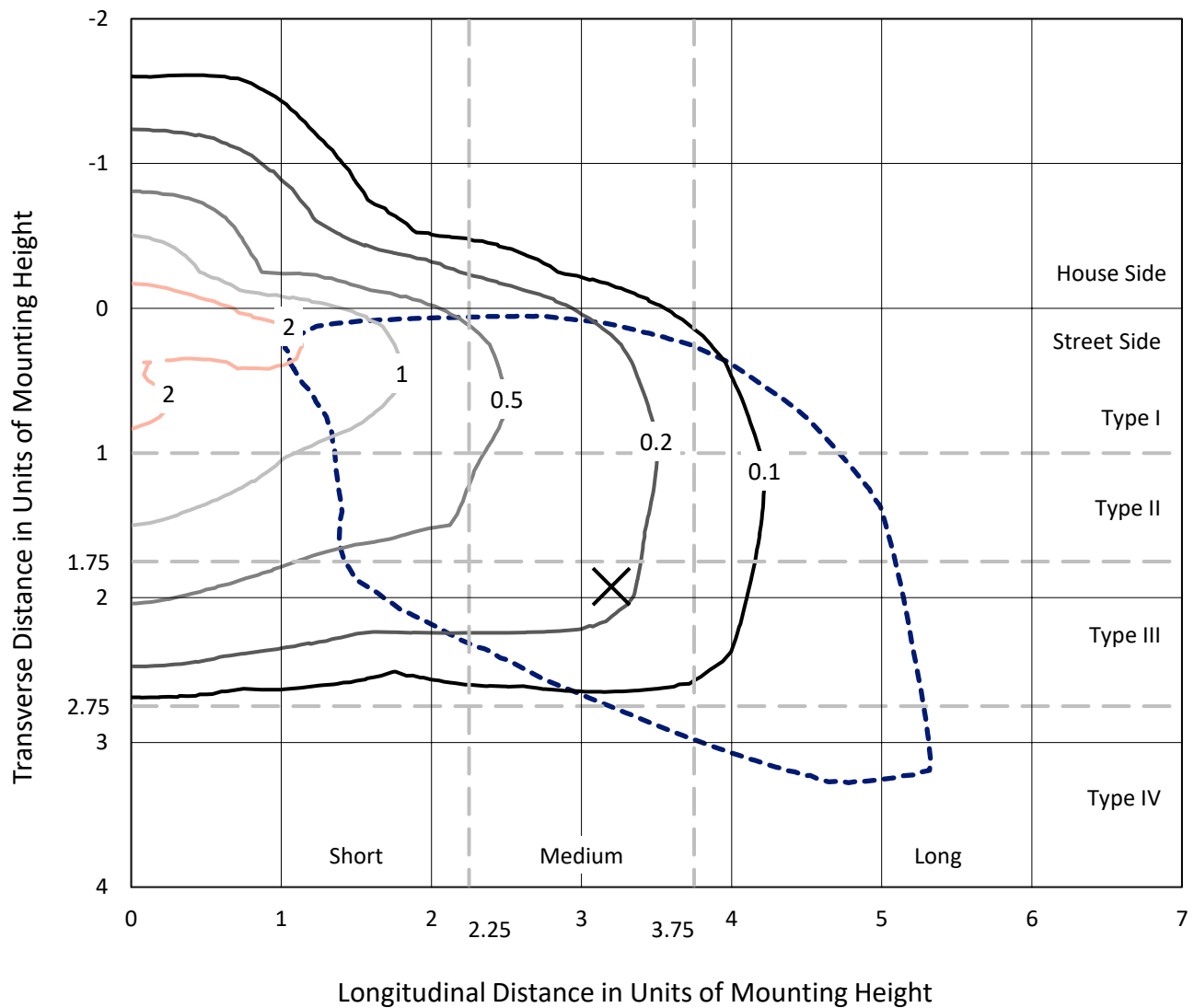


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

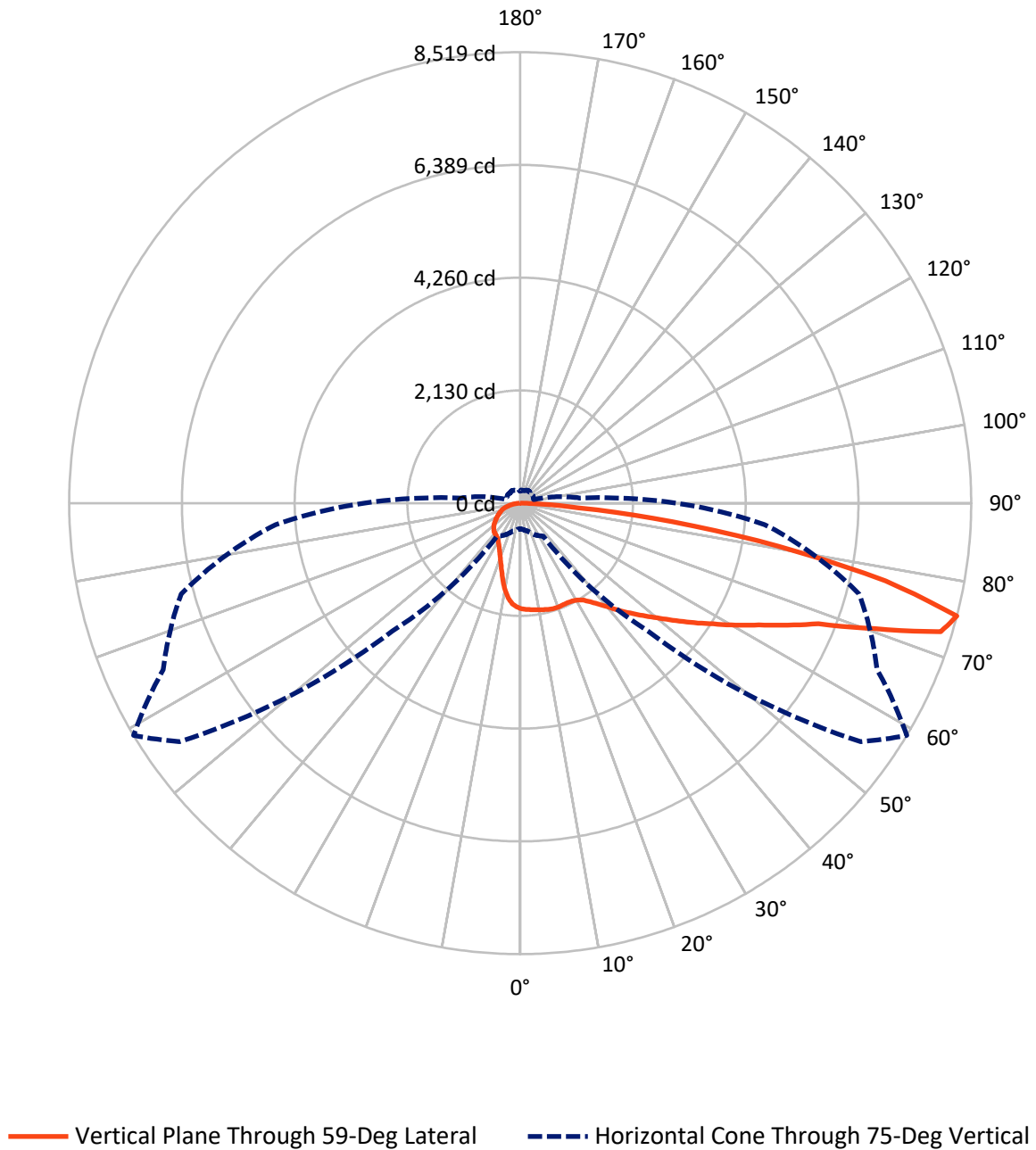


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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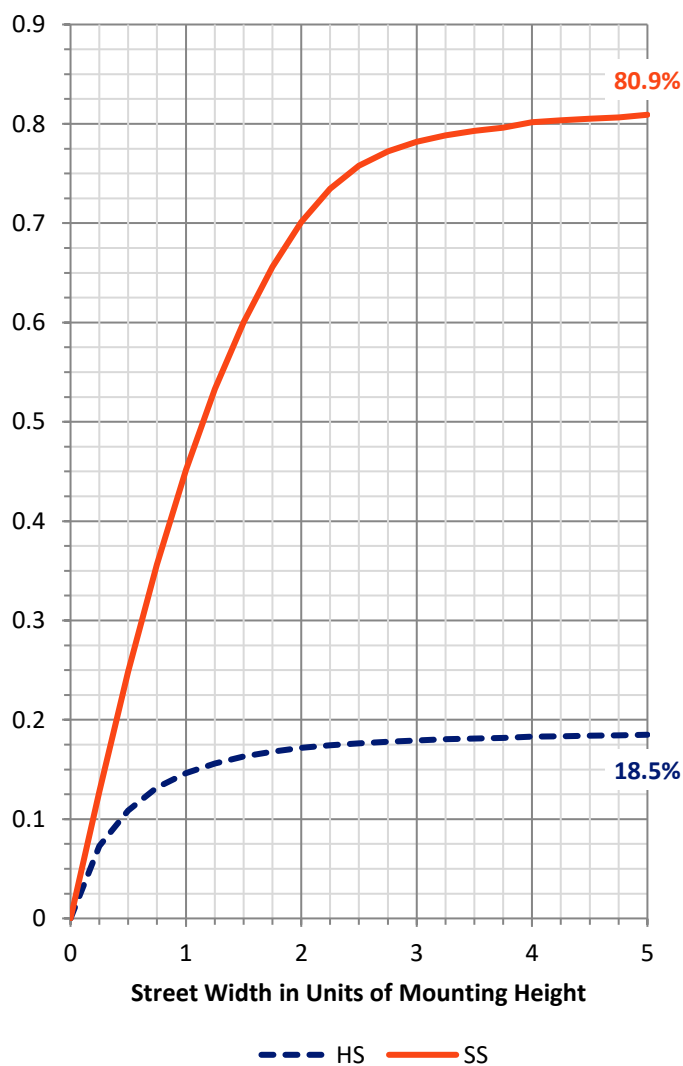
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2038.0	0.0	2038.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	8828.0	0.0	8828.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	10866.0	0.0	10866.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.8	1.6
10°-20°	457.1	4.2
20°-30°	694.3	6.4
30°-40°	1032.1	9.5
40°-50°	1534.9	14.1
50°-60°	2083.4	19.2
60°-70°	2543.5	23.4
70°-80°	1996.1	18.4
80°-90°	345.8	3.2
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°	10866.0	100.0
0°-180°	10866.0	100.0

Coefficient of Utilization



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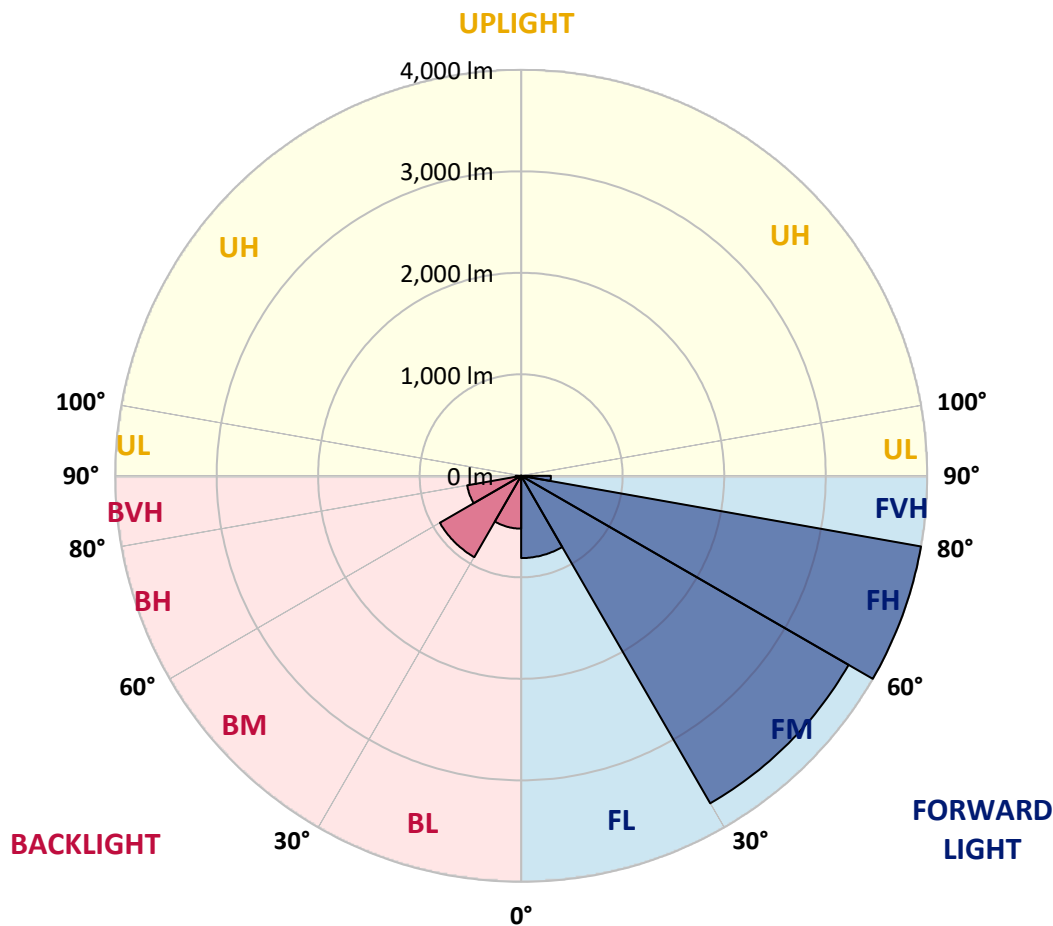
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	810.2	7.5			
FM	(30°-60°)	3725.3	34.3			
FH	(60°-80°)	3999.7	36.8			G2/5000
FVH	(80°-90°)	292.8	2.7			G3/500
BL	(0°-30°)	520.1	4.8	B2/1000		
BM	(30°-60°)	925.0	8.5	B1/1000		
BH	(60°-80°)	539.9	5.0	B2/1000		G2/1000
BVH	(80°-90°)	52.9	0.5			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1994.4	1994.4	1994.4	1994.4	1994.4	1994.4	1994.4	1994.4	1994.4	1994.4	1994.4
2.5°	2011.4	2004.4	2011.4	2008.5	2007.3	2005.0	2005.5	2009.6	2007.3	2010.2	2000.3
5°	1997.9	1993.8	2000.9	1999.1	2006.7	2007.9	2015.5	2020.1	2023.1	2023.7	2016.1
7.5°	1975.7	1971.6	1981.6	1989.8	2006.1	2010.8	2026.6	2034.2	2038.3	2045.3	2034.2
10°	1894.5	1892.7	1917.3	1948.3	1986.8	2010.8	2034.8	2047.6	2054.1	2072.8	2059.9
12.5°	1750.7	1753.0	1785.2	1844.8	1921.9	1999.1	2044.1	2062.8	2072.8	2096.1	2090.3
15°	1613.3	1612.7	1647.8	1711.5	1819.7	1947.7	2048.8	2080.9	2097.9	2132.4	2127.7
17.5°	1533.8	1531.5	1556.0	1604.5	1705.1	1868.8	2037.1	2090.9	2127.1	2170.4	2166.3
20°	1519.2	1514.5	1527.4	1551.4	1622.7	1782.2	2006.7	2090.9	2150.5	2206.6	2204.3
22.5°	1572.4	1564.8	1559.5	1556.6	1588.2	1710.9	1972.2	2083.9	2185.0	2258.6	2254.5
25°	1679.4	1667.7	1640.8	1614.5	1605.1	1678.8	1941.8	2082.1	2236.4	2328.8	2313.6
27.5°	1852.4	1837.8	1783.4	1720.3	1663.6	1695.1	1928.4	2092.6	2293.1	2403.0	2372.6
30°	2066.9	2051.1	1982.7	1885.7	1784.0	1755.9	1945.3	2123.6	2365.6	2501.8	2442.2
32.5°	2259.2	2241.7	2183.2	2084.4	1947.1	1861.2	1999.1	2182.7	2479.6	2639.2	2546.8
35°	2429.9	2409.4	2356.8	2265.7	2147.0	2009.0	2096.1	2287.3	2641.5	2862.5	2688.9
37.5°	2597.1	2573.1	2515.8	2419.4	2336.4	2206.0	2230.0	2421.7	2856.6	3133.7	2877.1
40°	2784.1	2749.6	2680.1	2584.8	2504.1	2436.9	2405.9	2586.6	3075.2	3436.5	3112.1
42.5°	2965.3	2932.6	2849.6	2768.4	2667.2	2647.9	2609.9	2779.5	3314.3	3769.1	3350.5
45°	3160.6	3121.4	3020.9	2918.0	2854.3	2788.2	2807.5	2972.4	3548.7	4108.1	3600.7
47.5°	3343.5	3299.7	3181.0	3066.5	3031.4	2906.3	2988.7	3184.5	3792.5	4451.8	3848.6
50°	3442.3	3399.1	3300.3	3196.8	3169.3	3051.9	3185.1	3417.8	4047.9	4794.3	4086.5
52.5°	3524.7	3478.0	3348.8	3291.5	3283.3	3210.3	3427.1	3684.3	4303.3	5097.1	4316.2
55°	3612.4	3560.4	3395.6	3344.1	3381.5	3388.0	3714.1	3986.5	4573.4	5392.3	4533.1
57.5°	3713.5	3647.5	3440.6	3388.5	3477.4	3596.1	4043.8	4299.8	4838.8	5665.9	4726.0
60°	3808.8	3742.2	3527.1	3459.3	3580.9	3837.5	4422.0	4679.2	5139.2	5909.6	4908.3
62.5°	3827.5	3772.6	3596.1	3595.5	3721.1	4119.2	4869.8	5062.1	5401.7	6150.5	5072.0
65°	3503.7	3469.2	3364.6	3590.2	3922.2	4524.9	5368.4	5551.9	5735.4	6360.9	5215.8
67.5°	2666.6	2671.3	2663.7	3099.2	3759.7	5107.7	6090.3	6076.2	6147.5	6597.1	5381.2
70°	1219.3	1246.8	1425.7	2139.4	3012.1	5174.9	7283.9	7102.1	6664.9	6902.8	5524.4
72.5°	658.8	679.8	752.9	1036.4	1810.9	4600.9	8175.9	8305.1	7352.9	7108.5	5367.2
75°	483.4	495.1	546.0	658.8	760.5	3419.5	7856.1	8519.0	7438.8	6628.6	4634.8
77.5°	361.8	367.1	408.6	522.0	389.3	1802.7	6277.3	7055.3	6367.9	5446.1	3423.6
80°	262.5	268.3	299.3	391.6	273.0	659.4	4310.4	4952.2	4361.2	3471.5	1706.3
82.5°	181.2	183.5	197.0	266.5	190.6	256.0	2445.7	2904.0	2434.6	1218.2	460.6
85°	109.3	112.2	118.1	155.5	108.1	121.6	1055.7	1091.9	727.7	291.1	143.2
87.5°	45.0	47.9	52.6	65.5	42.7	33.9	174.2	218.6	136.2	85.3	44.4
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°	1994.4	1994.4	1994.4	1994.4	1994.4	1994.4	1994.4	1994.4	1994.4	1994.4	1994.4
2.5°	1997.4	1993.3	1982.2	1967.0	1952.9	1935.4	1927.8	1921.4	1915.5	1904.4	1899.2
5°	2009.6	1998.5	1968.7	1930.1	1886.3	1838.4	1791.6	1759.4	1732.0	1711.5	1694.6
7.5°	2028.3	2007.3	1952.9	1874.0	1773.5	1670.6	1577.7	1511.6	1461.9	1443.8	1412.2
10°	2047.6	2022.5	1927.8	1788.7	1615.1	1456.7	1333.3	1265.5	1225.8	1212.9	1193.0
12.5°	2070.4	2033.6	1888.6	1670.0	1438.0	1264.3	1156.8	1117.0	1096.6	1089.6	1091.3
15°	2103.7	2042.9	1829.6	1521.5	1269.0	1124.1	1054.5	1027.0	1016.5	1015.9	1018.3
17.5°	2128.9	2044.7	1737.8	1362.5	1139.3	1039.3	982.0	971.5	978.5	989.0	993.1
20°	2156.9	2028.9	1617.4	1217.6	1048.1	965.1	941.1	948.1	965.1	980.3	985.5
22.5°	2176.8	2000.3	1471.9	1104.8	969.2	922.4	921.2	935.8	945.2	952.8	956.9
25°	2194.3	1951.8	1317.5	1010.1	904.3	896.7	909.5	904.9	898.4	904.9	909.0
27.5°	2207.2	1875.2	1179.6	927.1	858.7	879.1	871.5	861.0	860.4	863.9	869.8
30°	2203.1	1772.9	1066.2	848.2	826.5	846.4	828.3	826.5	824.8	826.5	833.0
32.5°	2203.1	1656.6	979.1	793.8	806.1	798.5	796.7	792.6	785.6	785.0	792.6
35°	2215.4	1540.2	904.3	764.6	789.1	771.0	772.2	762.2	747.6	740.6	747.6
37.5°	2240.5	1446.7	830.0	750.5	759.3	758.7	754.0	737.1	711.4	689.2	696.8
40°	2301.3	1419.2	779.2	744.1	745.3	752.3	740.0	707.3	648.8	612.6	617.3
42.5°	2396.6	1465.4	768.1	728.3	735.9	742.9	719.0	643.0	601.5	579.9	579.9
45°	2517.6	1546.1	792.0	705.5	713.7	726.0	654.7	618.4	599.7	600.3	603.2
47.5°	2670.7	1630.8	836.5	685.7	681.6	688.6	612.0	589.8	564.1	570.5	586.9
50°	2847.8	1716.8	878.6	658.8	645.9	623.1	584.5	563.5	530.8	515.6	519.7
52.5°	3039.6	1799.8	895.5	626.0	607.3	581.0	565.8	540.1	500.4	475.2	474.6
55°	3221.4	1875.2	876.8	586.9	568.8	548.3	546.0	530.2	487.5	452.4	452.4
57.5°	3393.2	1938.3	830.0	547.1	529.6	517.3	533.1	525.5	471.7	426.7	424.4
60°	3538.8	1981.6	762.2	506.8	494.5	488.1	512.1	509.7	449.5	399.2	397.5
62.5°	3654.5	1998.5	687.4	468.2	465.3	453.6	482.8	482.8	421.4	372.3	370.6
65°	3745.1	1982.2	611.4	430.2	436.1	418.5	447.2	443.7	391.6	348.4	346.0
67.5°	3825.2	1928.4	527.2	392.8	406.3	384.0	409.8	401.6	358.9	324.4	322.1
70°	3860.8	1803.3	431.4	355.4	371.8	350.1	372.3	357.2	322.1	298.7	294.0
72.5°	3574.4	1498.7	339.6	316.2	330.3	312.7	332.0	314.5	282.3	271.8	263.0
75°	2957.2	1124.6	261.3	273.6	284.1	270.6	283.5	270.6	241.4	249.0	227.4
77.5°	2147.6	759.3	199.9	228.6	233.2	226.2	237.3	222.7	196.4	194.6	185.9
80°	1067.9	444.8	156.7	180.6	178.9	174.2	187.1	180.0	157.8	167.2	165.4
82.5°	309.2	190.6	114.0	126.8	123.3	124.5	133.9	137.4	205.8	204.0	208.7
85°	97.0	74.8	68.4	70.7	67.2	69.0	78.9	156.7	145.0	84.8	91.8
87.5°	25.1	25.7	17.0	18.1	18.7	22.2	25.1	95.3	45.6	29.8	31.6
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)