

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: P949506

Luminaire Tested: **GALN-SB4B-727-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-727-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21321 lumens
Efficiency: N/A
Efficacy: 145.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 147
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

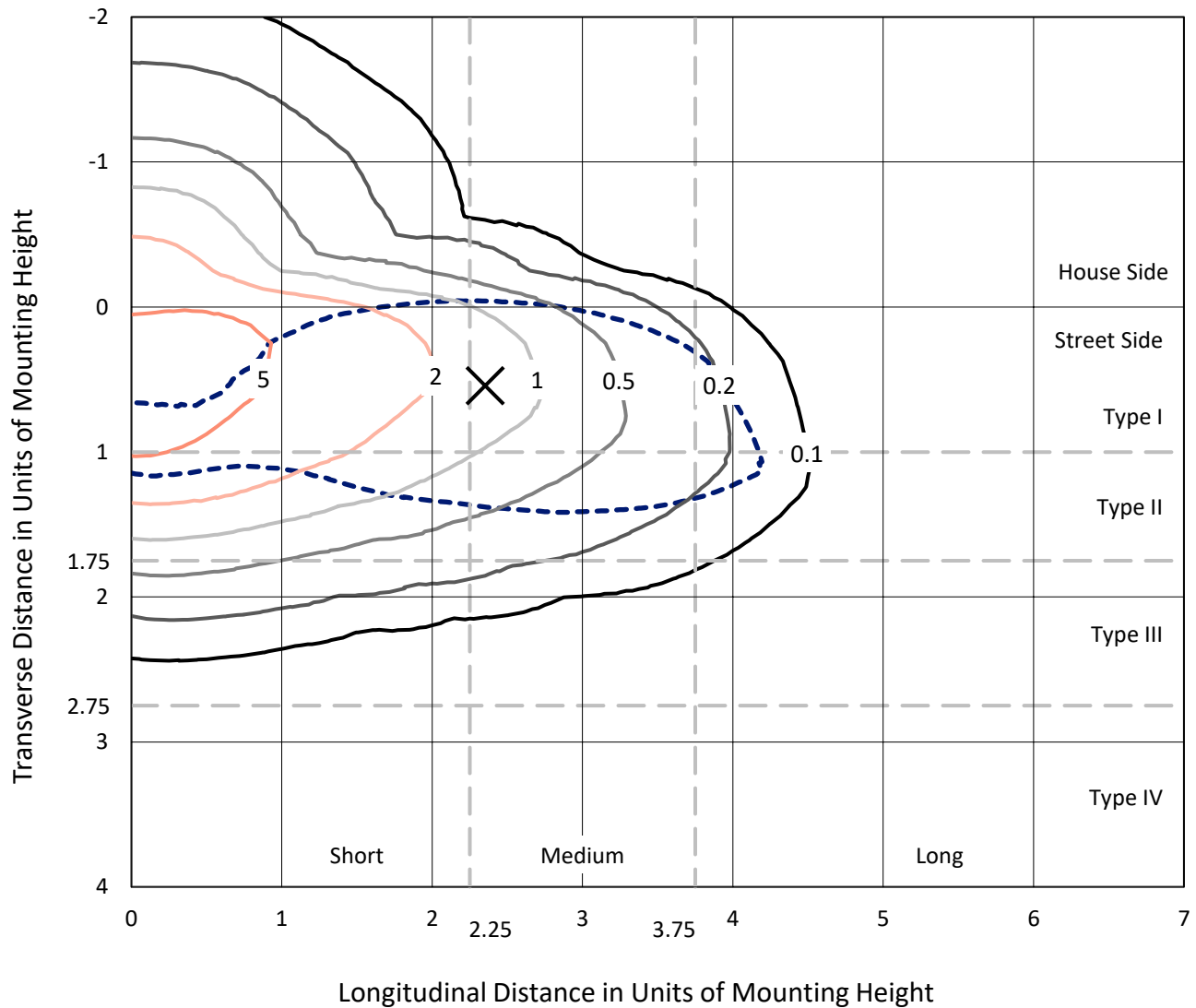


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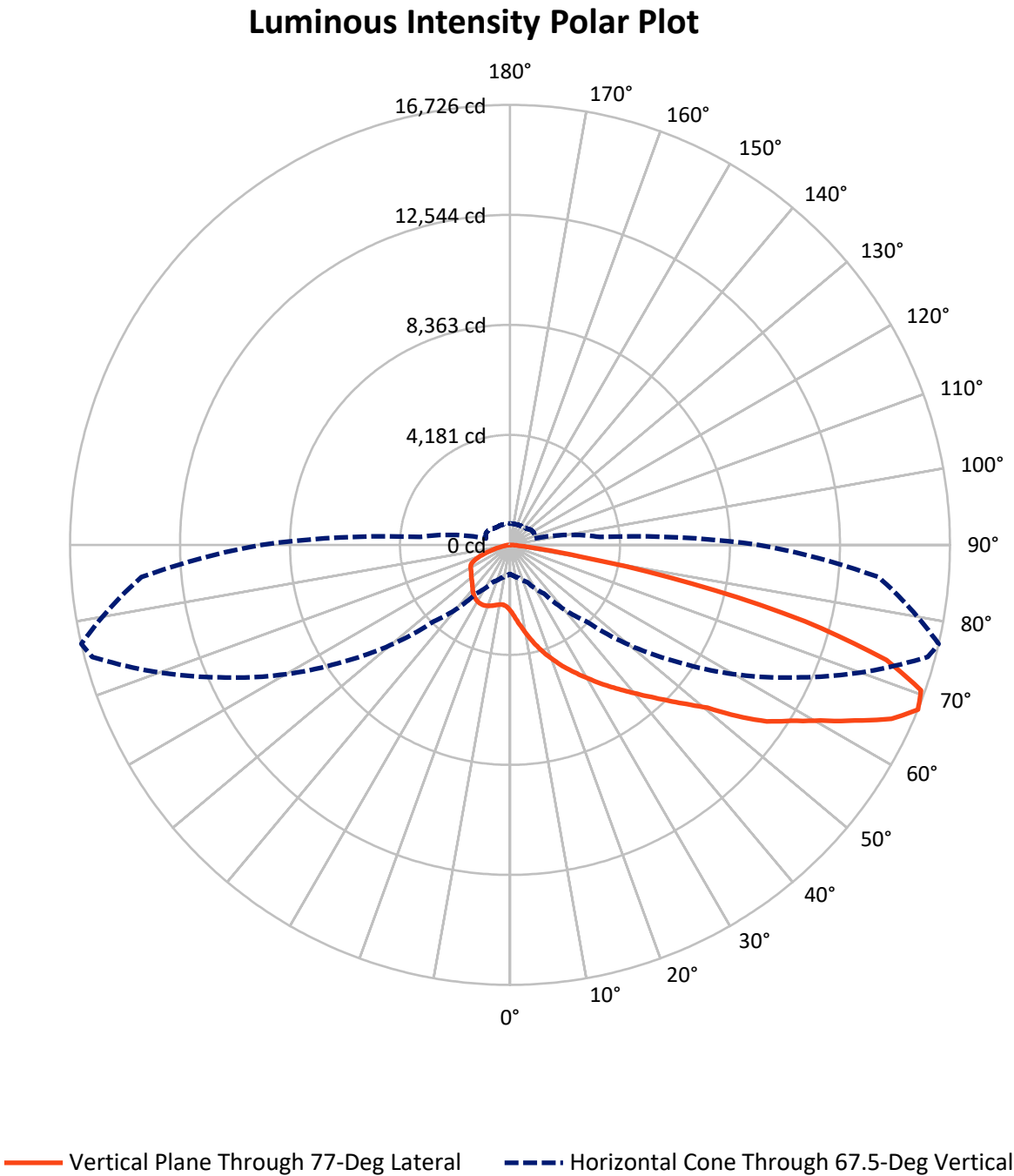
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
Type II - Medium - N/A

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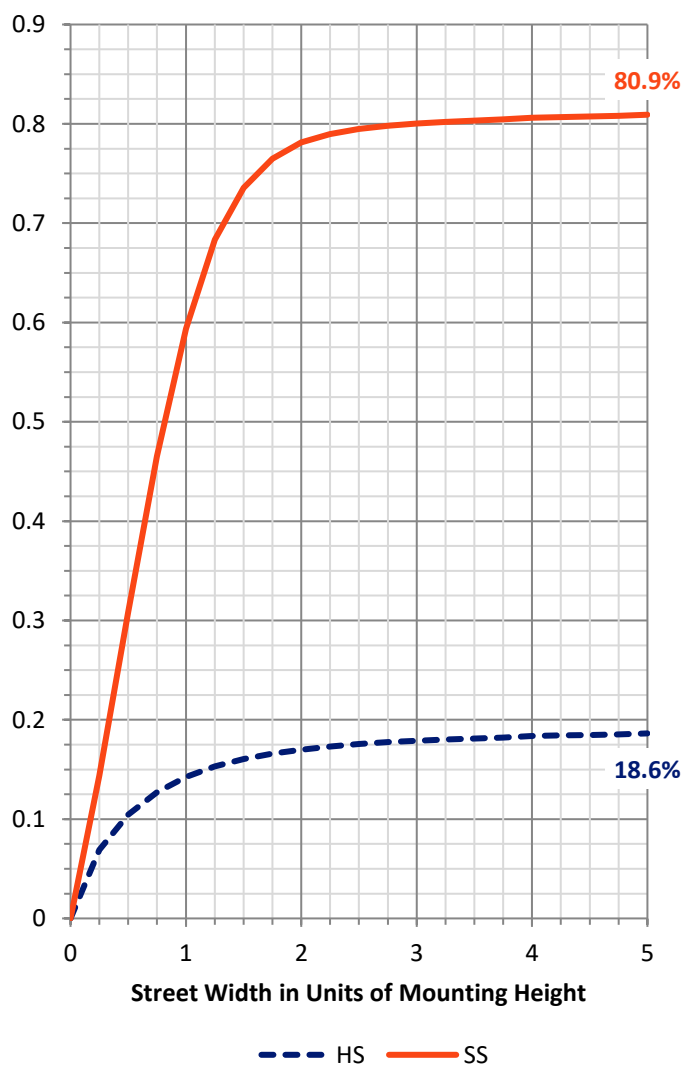
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4033.1	0.0	4033.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	17287.9	0.0	17287.9
	% Fixture	81.1	0.0	81.1
Total	Lumens	21321.0	0.0	21321.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.1	1.3
10°-20°	963.3	4.5
20°-30°	1818.8	8.5
30°-40°	2930.1	13.7
40°-50°	4007.9	18.8
50°-60°	4520.9	21.2
60°-70°	4219.7	19.8
70°-80°	2313.1	10.8
80°-90°	279.0	1.3
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°	21321.0	100.0
0°-180°	21321.0	100.0

Coefficient of Utilization



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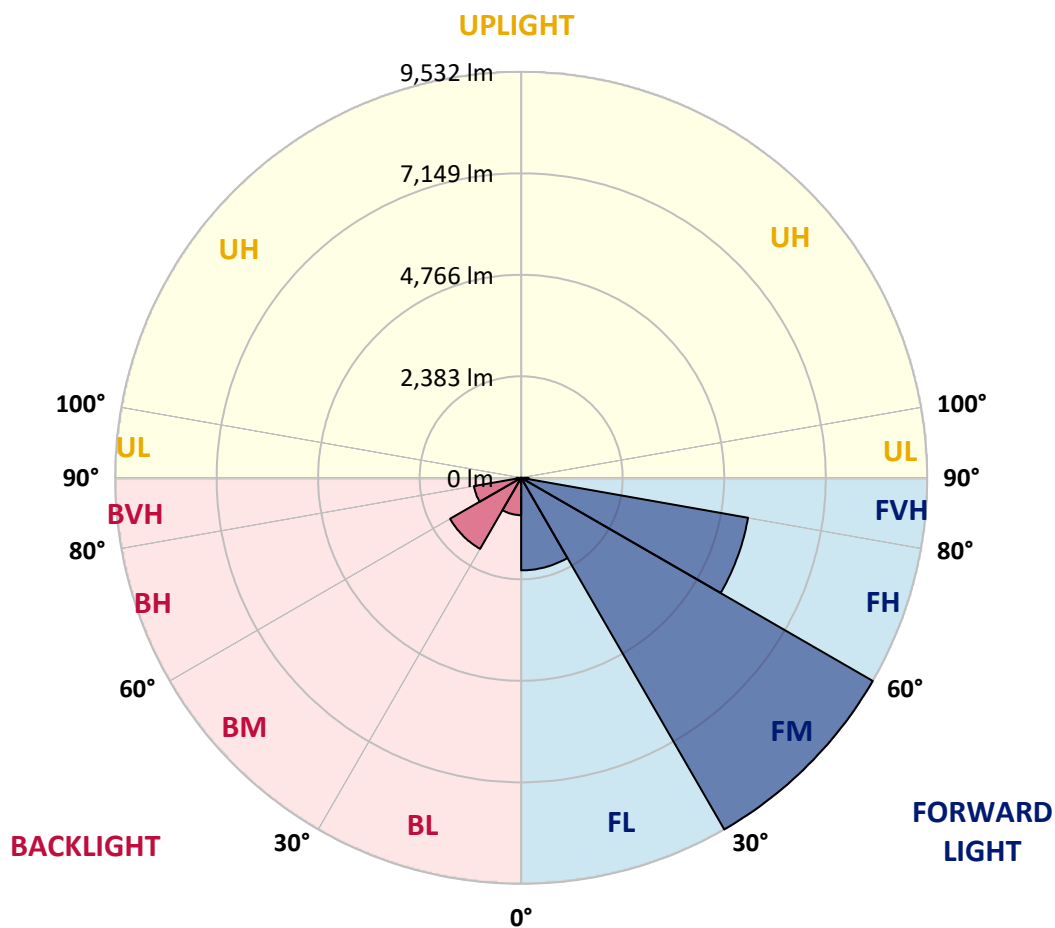
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2173.4	10.2			
FM	(30°-60°)	9532.4	44.7			
FH	(60°-80°)	5407.6	25.4			G3/7500
FVH	(80°-90°)	174.5	0.8			G2/225
BL	(0°-30°)	876.9	4.1	B2/1000		
BM	(30°-60°)	1926.5	9.0	B2/2500		
BH	(60°-80°)	1125.2	5.3	B3/2500		G3/2500
BVH	(80°-90°)	104.5	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2501.6	2501.6	2501.6	2501.6	2501.6	2501.6	2501.6	2501.6	2501.6	2501.6	2501.6
2.5°	3132.2	3154.3	3126.7	3126.7	3034.3	2985.9	2893.4	2823.0	2696.4	2674.4	2590.8
5°	3702.3	3729.9	3691.3	3674.8	3565.9	3465.7	3310.5	3157.6	2931.9	2908.8	2711.8
7.5°	4143.7	4178.9	4144.8	4127.2	4030.3	3918.1	3736.5	3523.0	3204.9	3159.8	2874.7
10°	4503.6	4509.1	4498.1	4504.7	4428.7	4336.3	4150.3	3901.6	3504.2	3442.6	3071.7
12.5°	4707.2	4732.5	4754.5	4794.1	4780.9	4723.7	4556.4	4259.2	3821.2	3742.0	3286.3
15°	4802.9	4846.9	4896.5	4987.8	5061.6	5075.9	4948.2	4643.3	4143.7	4047.9	3503.1
17.5°	4837.0	4878.9	4957.0	5089.1	5247.6	5354.3	5297.1	5016.4	4462.8	4352.8	3731.0
20°	5009.8	5021.9	5069.3	5194.7	5366.4	5543.6	5586.5	5375.2	4778.7	4654.3	3966.5
22.5°	5379.6	5355.4	5368.6	5425.9	5549.1	5720.8	5818.8	5692.2	5103.4	4960.3	4204.2
25°	5990.5	5920.0	5849.6	5783.5	5846.3	5943.1	6054.3	6009.2	5443.5	5261.9	4444.1
27.5°	6762.0	6676.1	6520.9	6304.1	6228.2	6262.3	6311.8	6303.0	5758.2	5574.4	4691.8
30°	7521.4	7421.2	7236.3	6922.6	6722.3	6632.1	6594.7	6569.4	6100.5	5904.6	4941.6
32.5°	8127.8	8048.5	7866.9	7515.9	7225.3	7071.2	6946.9	6856.6	6458.2	6262.3	5205.7
35°	8658.3	8584.5	8376.5	7993.5	7677.6	7513.7	7350.8	7158.2	6830.2	6632.1	5489.7
37.5°	9142.5	9068.8	8783.7	8385.3	8067.2	7953.9	7808.6	7481.7	7203.3	7016.2	5790.1
40°	9448.5	9432.0	9165.6	8714.4	8384.2	8328.1	8279.7	7857.0	7617.1	7443.2	6120.3
42.5°	9526.6	9562.9	9351.6	8980.7	8666.0	8620.8	8734.2	8281.9	8081.6	7915.4	6494.5
45°	9338.4	9443.0	9304.3	9052.3	8866.3	8842.1	9137.0	8746.3	8595.5	8443.6	6945.8
47.5°	8861.9	9039.1	8981.8	8946.6	8920.2	9024.7	9491.4	9239.4	9177.7	9045.7	7460.8
50°	7900.0	8235.6	8335.8	8558.1	8813.4	9166.7	9813.9	9777.5	9857.9	9724.7	8088.2
52.5°	6237.0	6699.2	7280.3	7837.2	8485.5	9119.4	10168.2	10550.1	10889.1	10816.5	9085.3
55°	5148.5	5356.5	5803.4	6824.7	7849.3	8920.2	10327.8	11174.2	11912.7	11847.7	9841.4
57.5°	4312.1	4498.1	4773.2	5626.2	6887.4	8467.9	10426.9	11555.0	12613.7	12607.1	10587.6
60°	3415.1	3612.1	3893.8	4498.1	5763.7	7686.4	10404.9	11988.6	13508.5	13563.5	11497.7
62.5°	2402.6	2619.4	2931.9	3495.4	4615.8	6673.9	9955.8	12302.3	14561.8	14711.4	12592.8
65°	1579.3	1722.4	1957.9	2444.4	3439.3	5371.9	9098.5	12343.0	15688.8	15941.9	13620.8
67.5°	1107.2	1162.2	1300.9	1565.0	2267.2	4119.5	7732.7	11921.5	16440.4	16725.5	14066.5
70°	864.0	891.5	961.9	1067.6	1424.1	2770.2	5925.5	10825.3	16279.8	16576.9	13601.0
72.5°	746.2	772.6	799.0	812.2	955.3	1710.3	4013.8	9051.2	14766.5	14967.9	11825.7
75°	676.9	683.5	705.5	701.1	728.6	1109.4	2316.7	6594.7	11650.7	11581.4	8729.8
77.5°	569.0	577.8	614.1	608.6	647.1	758.3	1202.9	4255.9	7553.3	7082.2	4859.1
80°	482.1	486.5	526.1	519.5	562.4	549.2	614.1	2169.2	3203.8	2714.0	1401.0
82.5°	167.3	206.9	401.7	413.8	429.2	332.4	354.4	884.9	978.4	749.5	293.9
85°	81.4	86.9	204.7	290.6	289.5	167.3	172.8	315.9	308.2	242.1	98.0
87.5°	13.2	16.5	24.2	113.4	90.2	44.0	59.4	61.6	63.8	55.0	22.0
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°	2501.6	2501.6	2501.6	2501.6	2501.6	2501.6	2501.6	2501.6	2501.6	2501.6	2501.6
2.5°	2529.1	2474.1	2358.5	2251.8	2168.1	2087.8	2042.7	2004.2	1982.1	1977.7	1977.7
5°	2597.4	2484.0	2273.8	2096.6	1981.0	1895.2	1850.1	1821.5	1807.2	1798.3	1797.2
7.5°	2695.3	2529.1	2229.8	2028.4	1907.3	1845.7	1822.6	1818.2	1817.1	1818.2	1821.5
10°	2830.7	2602.9	2225.4	2011.9	1910.6	1876.5	1875.4	1876.5	1880.9	1882.0	1883.1
12.5°	2977.1	2678.8	2243.0	2026.2	1952.4	1933.7	1930.4	1929.3	1932.6	1934.8	1935.9
15°	3136.6	2779.0	2272.7	2057.0	1998.7	1978.8	1975.5	1968.9	1967.8	1966.7	1965.6
17.5°	3300.6	2878.0	2305.7	2090.0	2028.4	2000.9	1988.7	1973.3	1961.2	1957.9	1961.2
20°	3466.8	2976.0	2328.8	2106.5	2030.6	1992.0	1967.8	1941.4	1920.5	1908.4	1912.8
22.5°	3644.0	3078.3	2343.1	2102.1	2010.8	1957.9	1913.9	1883.1	1851.2	1830.3	1831.4
25°	3816.8	3167.5	2342.0	2079.0	1972.2	1905.1	1849.0	1809.4	1765.3	1743.3	1743.3
27.5°	3983.0	3247.8	2314.5	2038.3	1917.2	1842.4	1775.2	1727.9	1685.0	1664.1	1663.0
30°	4154.7	3314.9	2271.6	1978.8	1852.3	1769.7	1696.0	1655.3	1616.8	1596.9	1595.8
32.5°	4325.3	3376.6	2211.1	1905.1	1777.4	1698.2	1625.6	1588.1	1565.0	1565.0	1566.1
35°	4505.8	3419.5	2130.7	1819.3	1698.2	1622.3	1565.0	1543.0	1540.8	1527.6	1524.3
37.5°	4696.2	3447.0	2032.8	1731.2	1620.1	1548.5	1530.9	1504.5	1482.5	1453.9	1449.5
40°	4896.5	3474.5	1915.0	1639.9	1537.5	1497.9	1490.2	1455.0	1392.2	1321.8	1311.9
42.5°	5139.7	3493.2	1792.8	1548.5	1450.6	1437.4	1448.4	1387.8	1287.7	1234.8	1236.0
45°	5421.5	3524.1	1680.6	1458.3	1361.4	1361.4	1407.6	1328.4	1245.9	1212.8	1218.3
47.5°	5786.8	3595.6	1576.0	1359.2	1278.9	1300.9	1317.4	1256.9	1210.6	1169.9	1168.8
50°	6315.1	3767.3	1468.2	1259.1	1216.1	1260.2	1237.1	1201.8	1147.9	1114.9	1111.6
52.5°	6971.1	3868.5	1372.4	1168.8	1162.2	1206.2	1173.2	1140.2	1099.5	1055.5	1046.7
55°	7417.9	3887.2	1292.1	1102.8	1125.9	1121.5	1109.4	1079.7	1057.7	999.3	1000.4
57.5°	7917.6	3924.7	1226.0	1063.2	1102.8	1054.4	1050.0	1024.6	996.0	956.4	943.2
60°	8515.2	3983.0	1168.8	1047.8	1083.0	1010.3	988.3	978.4	949.8	930.0	935.5
62.5°	9166.7	4035.8	1110.5	1050.0	1059.9	967.4	934.4	931.1	913.5	906.9	906.9
65°	9611.4	3891.6	1037.8	1047.8	1023.5	923.4	881.6	880.5	866.2	864.0	862.9
67.5°	9456.2	3434.9	939.9	1016.9	986.1	879.4	833.1	828.7	810.0	811.1	811.1
70°	8679.2	2783.4	804.5	941.0	939.9	839.7	782.5	768.2	742.9	747.3	751.7
72.5°	7222.0	2062.5	622.9	814.4	866.2	803.4	724.2	701.1	669.2	673.6	672.5
75°	5215.6	1402.1	453.4	619.6	753.9	760.5	667.0	627.3	588.8	595.4	597.6
77.5°	2668.9	794.6	333.5	427.0	592.1	691.2	615.2	562.4	553.6	615.2	606.4
80°	870.6	398.4	231.1	299.4	388.5	565.7	539.3	478.8	476.6	490.9	421.5
82.5°	259.7	168.4	148.6	197.0	214.6	433.6	465.5	362.1	311.5	328.0	339.0
85°	89.1	81.4	84.7	98.0	102.4	254.2	325.8	239.9	226.7	249.8	246.5
87.5°	20.9	28.6	24.2	22.0	22.0	61.6	126.6	100.2	138.7	92.4	89.1
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)