

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: P954855

Luminaire Tested: **GALN-SB8A-727-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954855
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-SB8A-727-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 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: 32882 lumens
Efficiency: N/A
Efficacy: 144.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 227.1
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

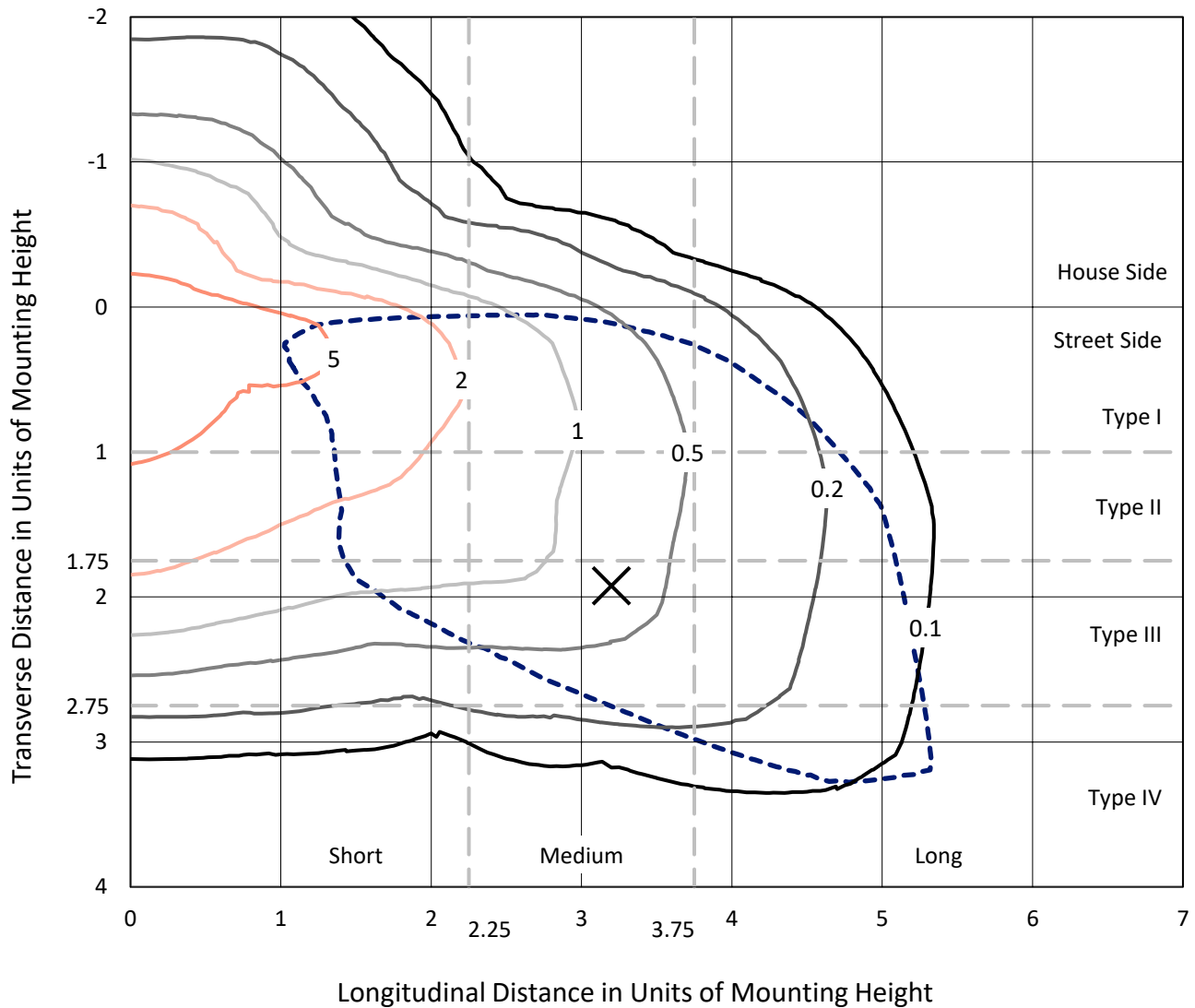


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

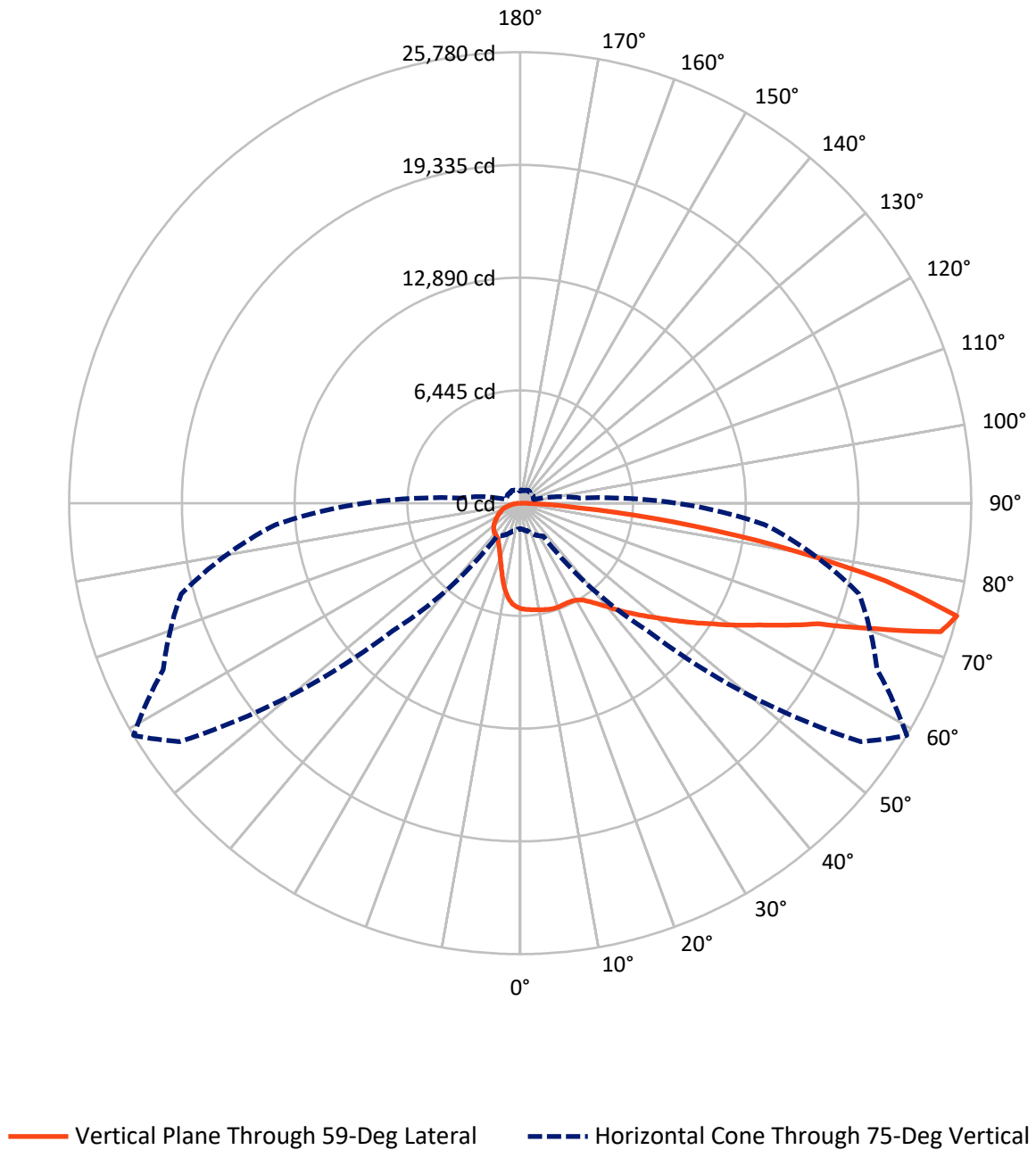


Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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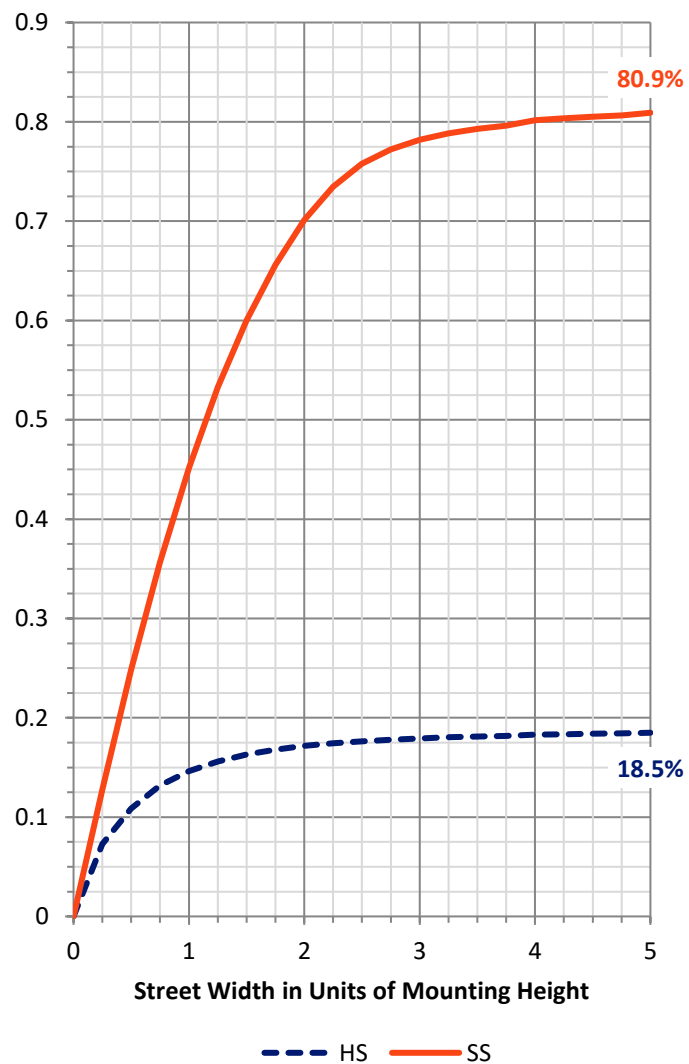
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6167.2	0.0	6167.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	26714.8	0.0	26714.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	32882.0	0.0	32882.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.2	1.6
10°-20°	1383.3	4.2
20°-30°	2101.1	6.4
30°-40°	3123.2	9.5
40°-50°	4644.7	14.1
50°-60°	6304.7	19.2
60°-70°	7697.0	23.4
70°-80°	6040.5	18.4
80°-90°	1046.4	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°	32882.0	100.0
0°-180°	32882.0	100.0

Coefficient of Utilization



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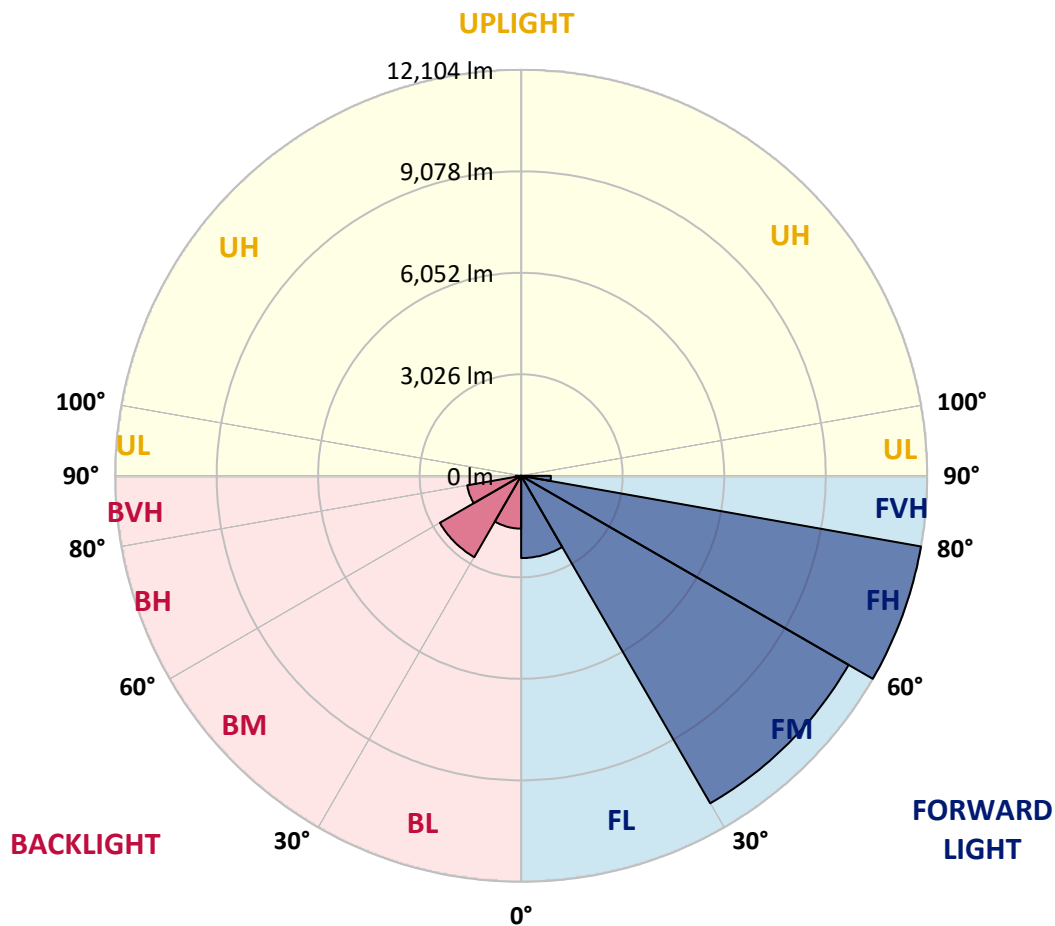
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2451.7	7.5			
FM	(30°-60°)	11273.3	34.3			
FH	(60°-80°)	12103.5	36.8			G5
FVH	(80°-90°)	886.2	2.7			G5
BL	(0°-30°)	1573.8	4.8	B3/2500		
BM	(30°-60°)	2799.3	8.5	B3/5000		
BH	(60°-80°)	1633.9	5.0	B3/2500		G3/2500
BVH	(80°-90°)	160.2	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-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6035.4	6035.4	6035.4	6035.4	6035.4	6035.4	6035.4	6035.4	6035.4	6035.4	6035.4
2.5°	6086.7	6065.5	6086.7	6077.9	6074.3	6067.3	6069.0	6081.4	6074.3	6083.2	6053.1
5°	6046.0	6033.6	6054.9	6049.6	6072.6	6076.1	6099.1	6113.2	6122.1	6123.9	6100.9
7.5°	5978.8	5966.4	5996.5	6021.3	6070.8	6084.9	6132.7	6155.7	6168.1	6189.3	6155.7
10°	5732.9	5727.6	5801.9	5895.7	6012.4	6084.9	6157.5	6196.4	6215.8	6272.4	6233.5
12.5°	5297.8	5304.9	5402.2	5582.6	5816.1	6049.6	6185.8	6242.4	6272.4	6343.2	6325.5
15°	4882.1	4880.3	4986.5	5179.3	5506.5	5893.9	6199.9	6297.2	6348.5	6452.9	6438.7
17.5°	4641.5	4634.5	4708.8	4855.6	5159.8	5655.1	6164.5	6327.3	6437.0	6567.9	6555.5
20°	4597.3	4583.2	4622.1	4694.6	4910.4	5393.3	6072.6	6327.3	6507.7	6677.5	6670.4
22.5°	4758.3	4735.3	4719.4	4710.5	4806.0	5177.5	5968.2	6306.1	6612.1	6835.0	6822.6
25°	5082.0	5046.6	4965.2	4885.6	4857.3	5080.2	5876.2	6300.7	6767.7	7047.2	7001.2
27.5°	5605.6	5561.4	5396.9	5205.8	5034.2	5129.8	5835.5	6332.6	6939.3	7271.9	7179.9
30°	6254.8	6207.0	6000.0	5706.4	5398.6	5313.7	5886.8	6426.3	7158.7	7570.8	7390.4
32.5°	6836.7	6783.7	6606.8	6307.8	5892.1	5632.1	6049.6	6605.0	7503.6	7986.5	7707.0
35°	7353.2	7291.3	7132.1	6856.2	6497.1	6079.6	6343.2	6921.6	7993.6	8662.2	8136.8
37.5°	7859.1	7786.6	7613.3	7321.4	7070.2	6675.8	6748.3	7328.5	8644.5	9483.0	8706.4
40°	8425.2	8320.8	8110.3	7822.0	7577.9	7374.5	7280.7	7827.3	9306.1	10399.2	9417.5
42.5°	8973.5	8874.5	8623.3	8377.4	8071.4	8013.0	7898.0	8411.0	10029.5	11405.7	10139.2
45°	9564.3	9445.8	9141.6	8830.2	8637.4	8437.6	8495.9	8994.8	10738.9	12431.7	10896.3
47.5°	10118.0	9985.3	9626.2	9279.5	9173.4	8794.9	9044.3	9636.9	11476.5	13471.8	11646.3
50°	10416.9	10286.0	9987.1	9674.0	9590.9	9235.3	9638.6	10342.6	12249.5	14508.4	12366.2
52.5°	10666.3	10524.8	10133.9	9960.6	9935.8	9714.7	10370.9	11149.2	13022.5	15424.6	13061.4
55°	10931.7	10774.2	10275.4	10119.8	10233.0	10252.4	11239.5	12063.8	13839.7	16317.9	13717.7
57.5°	11237.7	11037.8	10411.6	10254.2	10523.1	10882.1	12237.1	13011.9	14642.8	17145.8	14301.4
60°	11526.0	11324.4	10673.4	10468.2	10836.2	11612.7	13381.6	14159.9	15552.0	17883.4	14853.3
62.5°	11582.6	11416.4	10882.1	10880.4	11260.7	12465.3	14736.5	15318.5	16346.2	18612.2	15348.6
65°	10602.7	10498.3	10181.7	10864.5	11869.2	13692.9	16245.4	16800.8	17356.2	19248.9	15783.7
67.5°	8069.6	8083.8	8060.8	9378.6	11377.4	15456.5	18430.0	18387.5	18603.3	19963.6	16284.3
70°	3689.9	3773.0	4314.3	6474.1	9115.0	15659.9	22042.0	21491.9	20168.8	20888.7	16717.7
72.5°	1993.5	2057.2	2278.3	3136.2	5480.0	13922.9	24741.3	25132.2	22250.7	21511.3	16241.9
75°	1462.9	1498.2	1652.1	1993.5	2301.3	10347.9	23773.7	25779.7	22510.8	20059.1	14025.4
77.5°	1094.9	1110.9	1236.4	1579.6	1178.1	5455.2	18996.0	21350.4	19270.2	16480.7	10360.3
80°	794.2	811.9	905.7	1185.1	826.1	1995.3	13043.7	14985.9	13197.6	10505.4	5163.4
82.5°	548.4	555.4	596.1	806.6	576.7	774.8	7401.0	8787.8	7367.4	3686.3	1393.9
85°	330.8	339.6	357.3	470.5	327.2	367.9	3194.6	3304.3	2202.3	880.9	433.4
87.5°	136.2	145.0	159.2	198.1	129.1	102.6	527.1	661.6	412.1	258.3	134.4
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°	6035.4	6035.4	6035.4	6035.4	6035.4	6035.4	6035.4	6035.4	6035.4	6035.4	6035.4
2.5°	6044.3	6031.9	5998.3	5952.3	5909.8	5856.8	5833.8	5814.3	5796.6	5763.0	5747.1
5°	6081.4	6047.8	5957.6	5840.8	5708.2	5563.1	5421.6	5324.3	5241.2	5179.3	5128.0
7.5°	6138.0	6074.3	5909.8	5671.0	5366.8	5055.5	4774.2	4574.3	4424.0	4369.1	4273.6
10°	6196.4	6120.3	5833.8	5412.8	4887.4	4408.0	4034.8	3829.6	3709.3	3670.4	3610.3
12.5°	6265.4	6153.9	5715.3	5053.7	4351.4	3826.1	3500.6	3380.3	3318.4	3297.2	3302.5
15°	6366.2	6182.2	5536.6	4604.4	3840.2	3401.6	3191.1	3107.9	3076.1	3074.3	3081.4
17.5°	6442.3	6187.5	5258.9	4123.3	3447.5	3145.1	2971.7	2939.9	2961.1	2992.9	3005.3
20°	6527.2	6139.8	4894.5	3684.6	3171.6	2920.4	2847.9	2869.1	2920.4	2966.4	2982.3
22.5°	6587.3	6053.1	4454.0	3343.2	2932.8	2791.3	2787.8	2832.0	2860.3	2883.3	2895.7
25°	6640.4	5906.3	3987.1	3056.6	2736.5	2713.5	2752.4	2738.2	2718.8	2738.2	2750.6
27.5°	6679.3	5674.6	3569.6	2805.4	2598.5	2660.4	2637.4	2605.6	2603.8	2614.4	2632.1
30°	6666.9	5365.0	3226.4	2566.6	2501.2	2561.3	2506.5	2501.2	2495.9	2501.2	2520.7
32.5°	6666.9	5013.0	2962.9	2402.1	2439.3	2416.3	2411.0	2398.6	2377.4	2375.6	2398.6
35°	6704.1	4661.0	2736.5	2313.7	2388.0	2333.2	2336.7	2306.6	2262.4	2241.2	2262.4
37.5°	6780.1	4378.0	2511.8	2271.2	2297.8	2296.0	2281.9	2230.6	2152.7	2085.5	2108.5
40°	6964.1	4294.8	2357.9	2251.8	2255.3	2276.5	2239.4	2140.3	1963.5	1853.8	1867.9
42.5°	7252.4	4434.6	2324.3	2204.0	2227.0	2248.2	2175.7	1945.8	1820.2	1754.7	1754.7
45°	7618.6	4678.7	2396.8	2135.0	2159.8	2196.9	1981.1	1871.5	1814.9	1816.6	1825.5
47.5°	8082.0	4935.2	2531.3	2074.9	2062.5	2083.7	1852.0	1784.8	1707.0	1726.4	1776.0
50°	8618.0	5195.2	2658.6	1993.5	1954.6	1885.6	1768.9	1705.2	1606.1	1560.2	1572.5
52.5°	9198.2	5446.4	2709.9	1894.5	1837.9	1758.3	1712.3	1634.4	1514.2	1438.1	1436.3
55°	9748.3	5674.6	2653.3	1776.0	1721.1	1659.2	1652.1	1604.4	1475.2	1369.1	1369.1
57.5°	10268.3	5865.6	2511.8	1655.7	1602.6	1565.5	1613.2	1590.2	1427.5	1291.3	1284.2
60°	10708.8	5996.5	2306.6	1533.6	1496.5	1477.0	1549.5	1542.5	1360.3	1208.1	1202.8
62.5°	11059.0	6047.8	2080.2	1416.9	1408.0	1372.7	1461.1	1461.1	1275.4	1126.8	1121.5
65°	11333.2	5998.3	1850.2	1301.9	1319.6	1266.5	1353.2	1342.6	1185.1	1054.3	1047.2
67.5°	11575.5	5835.5	1595.5	1188.7	1229.4	1162.2	1240.0	1215.2	1086.1	981.7	974.7
70°	11683.5	5457.0	1305.4	1075.5	1125.0	1059.6	1126.8	1080.8	974.7	903.9	889.7
72.5°	10816.7	4535.4	1027.7	957.0	999.4	946.4	1004.7	951.7	854.4	822.5	796.0
75°	8948.8	3403.3	790.7	827.8	859.7	819.0	857.9	819.0	730.5	753.5	688.1
77.5°	6498.9	2297.8	605.0	691.6	705.8	684.6	718.2	673.9	594.3	589.0	562.5
80°	3231.7	1346.1	474.1	546.6	541.3	527.1	566.0	544.8	477.6	505.9	500.6
82.5°	935.7	576.7	344.9	383.8	373.2	376.8	405.1	415.7	622.6	617.3	631.5
85°	293.6	226.4	207.0	214.0	203.4	208.7	238.8	474.1	438.7	256.5	277.7
87.5°	76.1	77.8	51.3	54.8	56.6	67.2	76.1	288.3	138.0	90.2	95.5
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)