

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: P953784

Luminaire Tested: **GALN-SB7B-727-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953784
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-SB7B-727-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36302 lumens
Efficiency: N/A
Efficacy: 141.4 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): 256.7
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

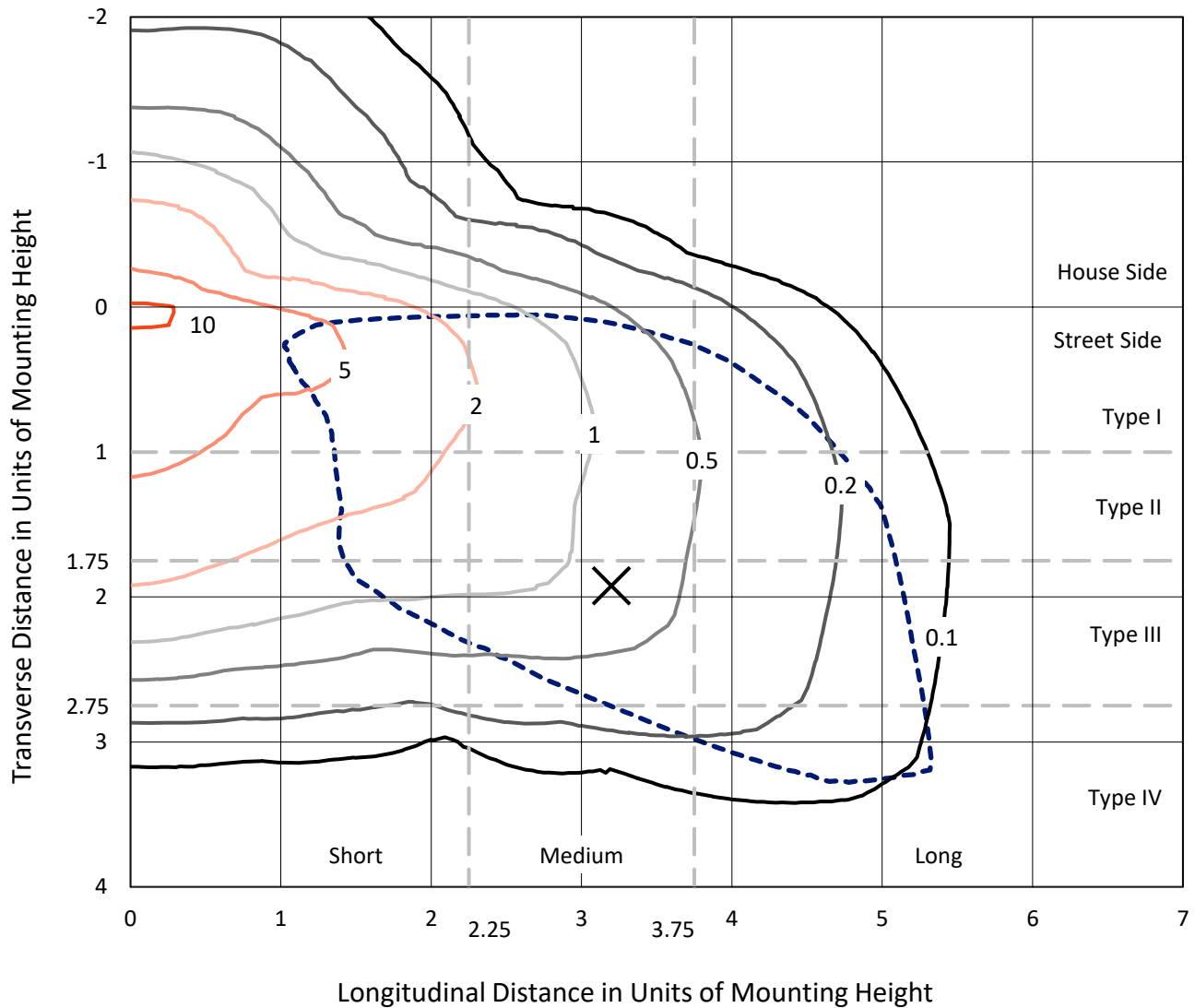


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

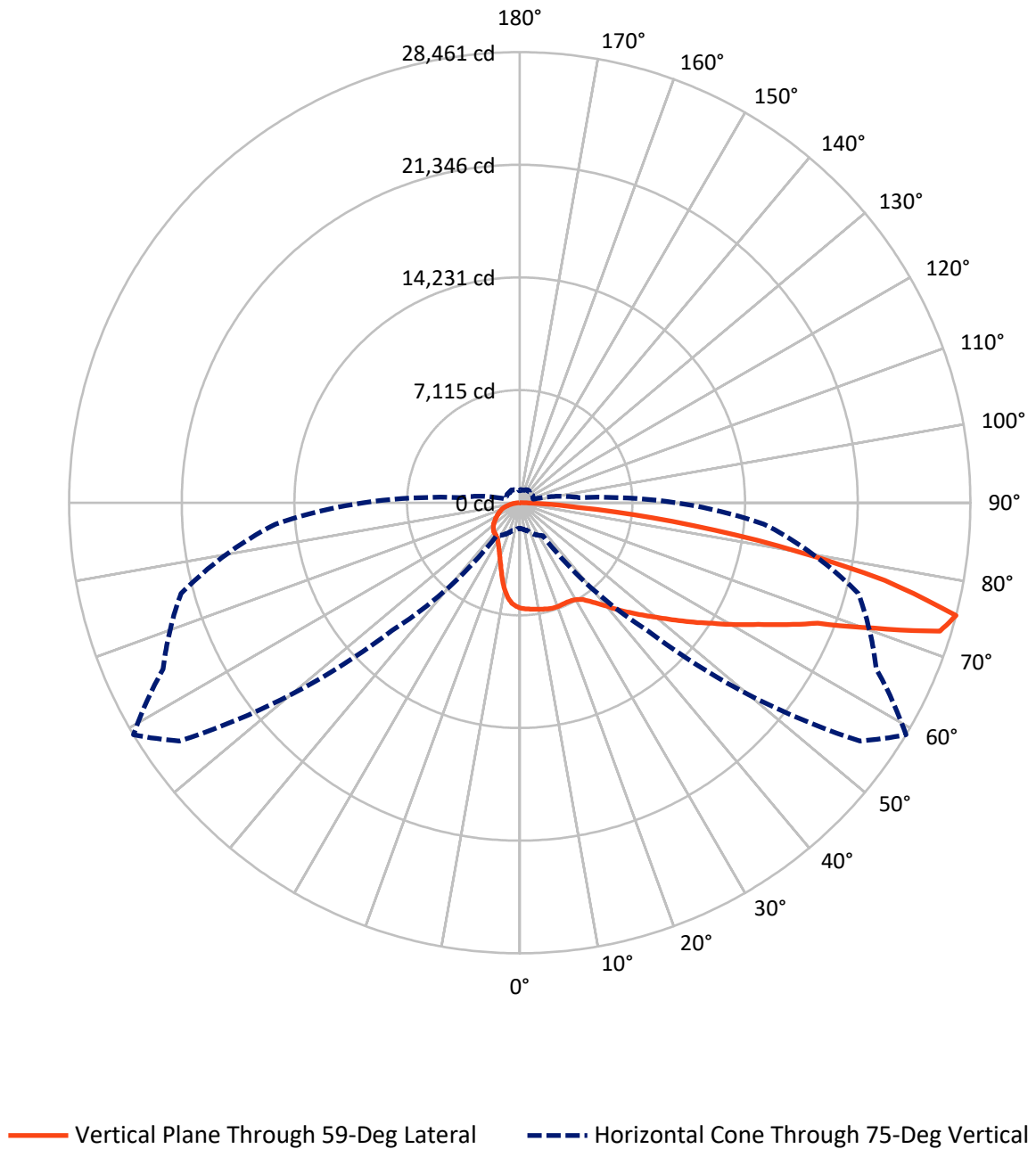


Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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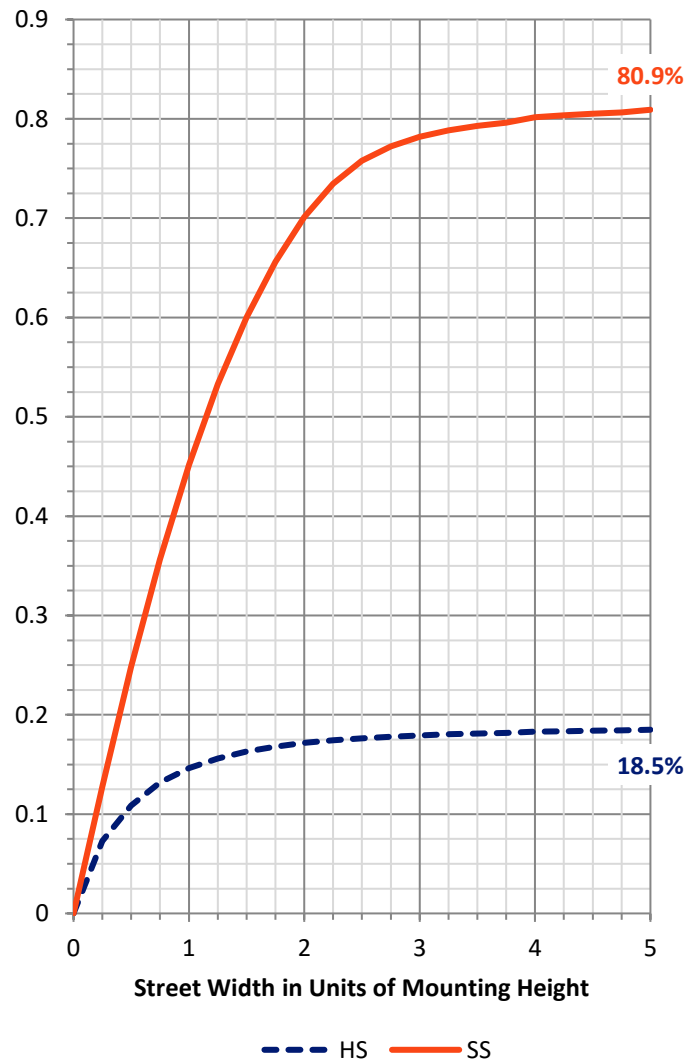
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6808.7	0.0	6808.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	29493.3	0.0	29493.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	36302.0	0.0	36302.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	597.5	1.6
10°-20°	1527.1	4.2
20°-30°	2319.6	6.4
30°-40°	3448.0	9.5
40°-50°	5127.8	14.1
50°-60°	6960.4	19.2
60°-70°	8497.5	23.4
70°-80°	6668.8	18.4
80°-90°	1155.2	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°	36302.0	100.0
0°-180°	36302.0	100.0

Coefficient of Utilization



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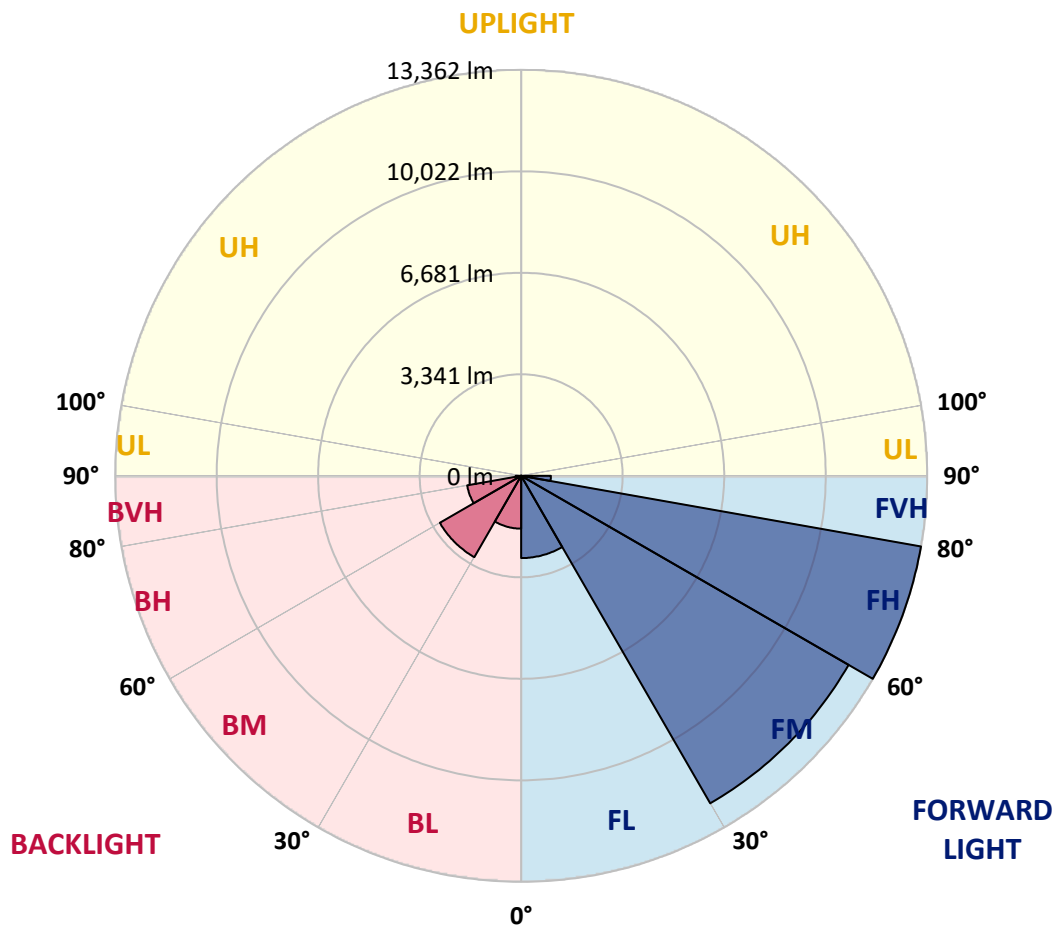
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2706.7	7.5			
FM	(30°-60°)	12445.8	34.3			
FH	(60°-80°)	13362.4	36.8			G5
FVH	(80°-90°)	978.4	2.7			G5
BL	(0°-30°)	1737.5	4.8	B3/2500		
BM	(30°-60°)	3090.5	8.5	B3/5000		
BH	(60°-80°)	1803.9	5.0	B3/2500		G3/2500
BVH	(80°-90°)	176.8	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-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6663.2	6663.2	6663.2	6663.2	6663.2	6663.2	6663.2	6663.2	6663.2	6663.2	6663.2
2.5°	6719.8	6696.3	6719.8	6710.0	6706.1	6698.3	6700.3	6713.9	6706.1	6715.9	6682.7
5°	6674.9	6661.2	6684.6	6678.8	6704.2	6708.1	6733.5	6749.1	6758.8	6760.8	6735.4
7.5°	6600.7	6587.0	6620.2	6647.5	6702.2	6717.8	6770.6	6795.9	6809.6	6833.0	6795.9
10°	6329.2	6323.4	6405.4	6508.9	6637.8	6717.8	6797.9	6840.9	6862.3	6924.8	6881.9
12.5°	5848.8	5856.6	5964.0	6163.2	6421.0	6678.8	6829.1	6891.6	6924.8	7002.9	6983.4
15°	5389.9	5387.9	5505.1	5718.0	6079.2	6506.9	6844.8	6952.2	7008.8	7124.0	7108.4
17.5°	5124.3	5116.5	5198.5	5360.6	5696.5	6243.3	6805.7	6985.4	7106.4	7251.0	7237.3
20°	5075.5	5059.9	5102.8	5182.9	5421.1	5954.3	6704.2	6985.4	7184.6	7372.0	7364.2
22.5°	5253.2	5227.8	5210.2	5200.5	5305.9	5716.0	6588.9	6961.9	7299.8	7545.8	7532.2
25°	5610.6	5571.5	5481.7	5393.8	5362.5	5608.6	6487.4	6956.1	7471.6	7780.2	7729.4
27.5°	6188.6	6139.8	5958.2	5747.3	5557.8	5663.3	6442.5	6991.2	7661.1	8028.2	7926.7
30°	6905.3	6852.6	6624.1	6299.9	5960.1	5866.4	6499.1	7094.7	7903.2	8358.2	8159.0
32.5°	7547.8	7489.2	7293.9	6963.9	6505.0	6217.9	6678.8	7292.0	8284.0	8817.2	8508.6
35°	8118.0	8049.7	7873.9	7569.3	7172.8	6712.0	7002.9	7641.5	8825.0	9563.1	8983.1
37.5°	8676.5	8596.5	8405.1	8082.9	7805.6	7370.1	7450.2	8090.7	9543.6	10469.3	9612.0
40°	9301.5	9186.2	8953.9	8635.5	8366.0	8141.5	8038.0	8641.4	10274.0	11480.9	10397.0
42.5°	9906.8	9797.5	9520.2	9248.7	8910.9	8846.4	8719.5	9285.8	11072.7	12592.0	11193.8
45°	10559.1	10428.3	10092.4	9748.7	9535.8	9315.1	9379.6	9930.3	11855.8	13724.7	12029.6
47.5°	11170.3	11023.9	10627.5	10244.7	10127.5	9709.6	9985.0	10639.2	12670.1	14873.0	12857.6
50°	11500.4	11355.9	11025.8	10680.2	10588.4	10195.9	10641.1	11418.4	13523.5	16017.3	13652.4
52.5°	11775.7	11619.5	11187.9	10996.5	10969.2	10725.1	11449.6	12308.9	14376.9	17028.9	14419.9
55°	12068.7	11894.9	11344.2	11172.3	11297.3	11318.8	12408.5	13318.5	15279.2	18015.1	15144.4
57.5°	12406.5	12185.8	11494.5	11320.7	11617.6	12014.0	13509.9	14365.2	16165.8	18929.1	15788.9
60°	12724.8	12502.2	11783.5	11557.0	11963.2	12820.5	14773.4	15632.6	17169.5	19743.4	16398.1
62.5°	12787.3	12603.7	12014.0	12012.0	12431.9	13761.8	16269.3	16911.7	18046.4	20548.0	16944.9
65°	11705.4	11590.2	11240.7	11994.5	13103.7	15117.1	17935.0	18548.2	19161.4	21251.0	17425.4
67.5°	8908.9	8924.6	8899.2	10354.1	12560.8	17064.1	20346.8	20300.0	20538.2	22040.0	17978.0
70°	4073.7	4165.4	4763.0	7147.5	10063.1	17288.7	24334.6	23727.2	22266.5	23061.3	18456.5
72.5°	2200.9	2271.2	2515.3	3462.4	6050.0	15370.9	27314.6	27746.2	24565.0	23748.7	17931.1
75°	1615.0	1654.1	1824.0	2200.9	2540.7	11424.2	26246.4	28461.0	24852.1	22145.4	15484.2
77.5°	1208.8	1226.4	1365.0	1743.9	1300.6	6022.6	20971.7	23571.0	21274.4	18194.8	11437.9
80°	876.8	896.4	999.9	1308.4	912.0	2202.8	14400.4	16544.6	14570.3	11598.0	5700.4
82.5°	605.4	613.2	658.1	890.5	636.6	855.4	8170.8	9701.8	8133.7	4069.8	1538.9
85°	365.2	374.9	394.5	519.5	361.3	406.2	3526.9	3647.9	2431.3	972.5	478.5
87.5°	150.4	160.1	175.8	218.7	142.6	113.3	582.0	730.4	455.0	285.1	148.4
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°	6663.2	6663.2	6663.2	6663.2	6663.2	6663.2	6663.2	6663.2	6663.2	6663.2	6663.2
2.5°	6672.9	6659.2	6622.1	6571.4	6524.5	6465.9	6440.5	6419.0	6399.5	6362.4	6344.8
5°	6713.9	6676.8	6577.2	6448.3	6301.9	6141.7	5985.5	5878.1	5786.3	5718.0	5661.3
7.5°	6776.4	6706.1	6524.5	6260.9	5925.0	5581.3	5270.8	5050.1	4884.1	4823.6	4718.1
10°	6840.9	6756.9	6440.5	5975.7	5395.7	4866.5	4454.5	4227.9	4095.1	4052.2	3985.8
12.5°	6917.0	6794.0	6309.7	5579.3	4804.0	4224.0	3864.7	3731.9	3663.6	3640.1	3646.0
15°	7028.3	6825.2	6112.4	5083.3	4239.7	3755.3	3523.0	3431.2	3396.0	3394.1	3401.9
17.5°	7112.3	6831.1	5805.8	4552.1	3806.1	3472.2	3280.8	3245.6	3269.1	3304.2	3317.9
20°	7206.0	6778.4	5403.6	4067.8	3501.5	3224.2	3144.1	3167.5	3224.2	3274.9	3292.5
22.5°	7272.4	6682.7	4917.3	3690.9	3237.8	3081.6	3077.7	3126.5	3157.8	3183.2	3196.8
25°	7331.0	6520.6	4401.7	3374.5	3021.1	2995.7	3038.6	3023.0	3001.5	3023.0	3036.7
27.5°	7374.0	6264.8	3940.9	3097.2	2868.7	2937.1	2911.7	2876.6	2874.6	2886.3	2905.9
30°	7360.3	5923.0	3562.0	2833.6	2761.3	2827.7	2767.2	2761.3	2755.5	2761.3	2782.8
32.5°	7360.3	5534.4	3271.0	2652.0	2693.0	2667.6	2661.7	2648.1	2624.6	2622.7	2648.1
35°	7401.3	5145.8	3021.1	2554.3	2636.4	2575.8	2579.7	2546.5	2497.7	2474.3	2497.7
37.5°	7485.3	4833.3	2773.1	2507.5	2536.8	2534.8	2519.2	2462.6	2376.6	2302.4	2327.8
40°	7688.4	4741.5	2603.2	2486.0	2489.9	2513.3	2472.3	2363.0	2167.7	2046.6	2062.2
42.5°	8006.7	4895.8	2566.1	2433.3	2458.6	2482.1	2402.0	2148.1	2009.5	1937.2	1937.2
45°	8411.0	5165.3	2646.1	2357.1	2384.4	2425.4	2187.2	2066.1	2003.6	2005.6	2015.3
47.5°	8922.6	5448.5	2794.5	2290.7	2277.0	2300.5	2044.6	1970.4	1884.5	1906.0	1960.7
50°	9514.3	5735.5	2935.1	2200.9	2157.9	2081.7	1952.9	1882.6	1773.2	1722.4	1736.1
52.5°	10154.9	6012.8	2991.8	2091.5	2029.0	1941.1	1890.4	1804.4	1671.6	1587.7	1585.7
55°	10762.2	6264.8	2929.3	1960.7	1900.1	1831.8	1824.0	1771.2	1628.7	1511.5	1511.5
57.5°	11336.3	6475.7	2773.1	1827.9	1769.3	1728.3	1781.0	1755.6	1576.0	1425.6	1417.8
60°	11822.6	6620.2	2546.5	1693.1	1652.1	1630.6	1710.7	1702.9	1501.7	1333.8	1327.9
62.5°	12209.3	6676.8	2296.6	1564.2	1554.5	1515.4	1613.1	1613.1	1408.0	1244.0	1238.1
65°	12512.0	6622.1	2042.7	1437.3	1456.8	1398.2	1493.9	1482.2	1308.4	1163.9	1156.1
67.5°	12779.5	6442.5	1761.5	1312.3	1357.2	1283.0	1369.0	1341.6	1199.1	1083.8	1076.0
70°	12898.6	6024.6	1441.2	1187.3	1242.0	1169.8	1244.0	1193.2	1076.0	997.9	982.3
72.5°	11941.7	5007.1	1134.6	1056.5	1103.4	1044.8	1109.2	1050.6	943.2	908.1	878.8
75°	9879.5	3757.3	872.9	913.9	949.1	904.2	947.1	904.2	806.5	831.9	759.7
77.5°	7174.8	2536.8	667.9	763.6	779.2	755.8	792.9	744.0	656.2	650.3	621.0
80°	3567.9	1486.1	523.4	603.4	597.6	582.0	624.9	601.5	527.3	558.5	552.7
82.5°	1033.1	636.6	380.8	423.8	412.1	416.0	447.2	458.9	687.4	681.5	697.2
85°	324.2	250.0	228.5	236.3	224.6	230.4	263.6	523.4	484.3	283.2	306.6
87.5°	84.0	85.9	56.6	60.5	62.5	74.2	84.0	318.3	152.3	99.6	105.5
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)