

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: P954849

Luminaire Tested: **GALN-SB8A-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
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-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28686 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

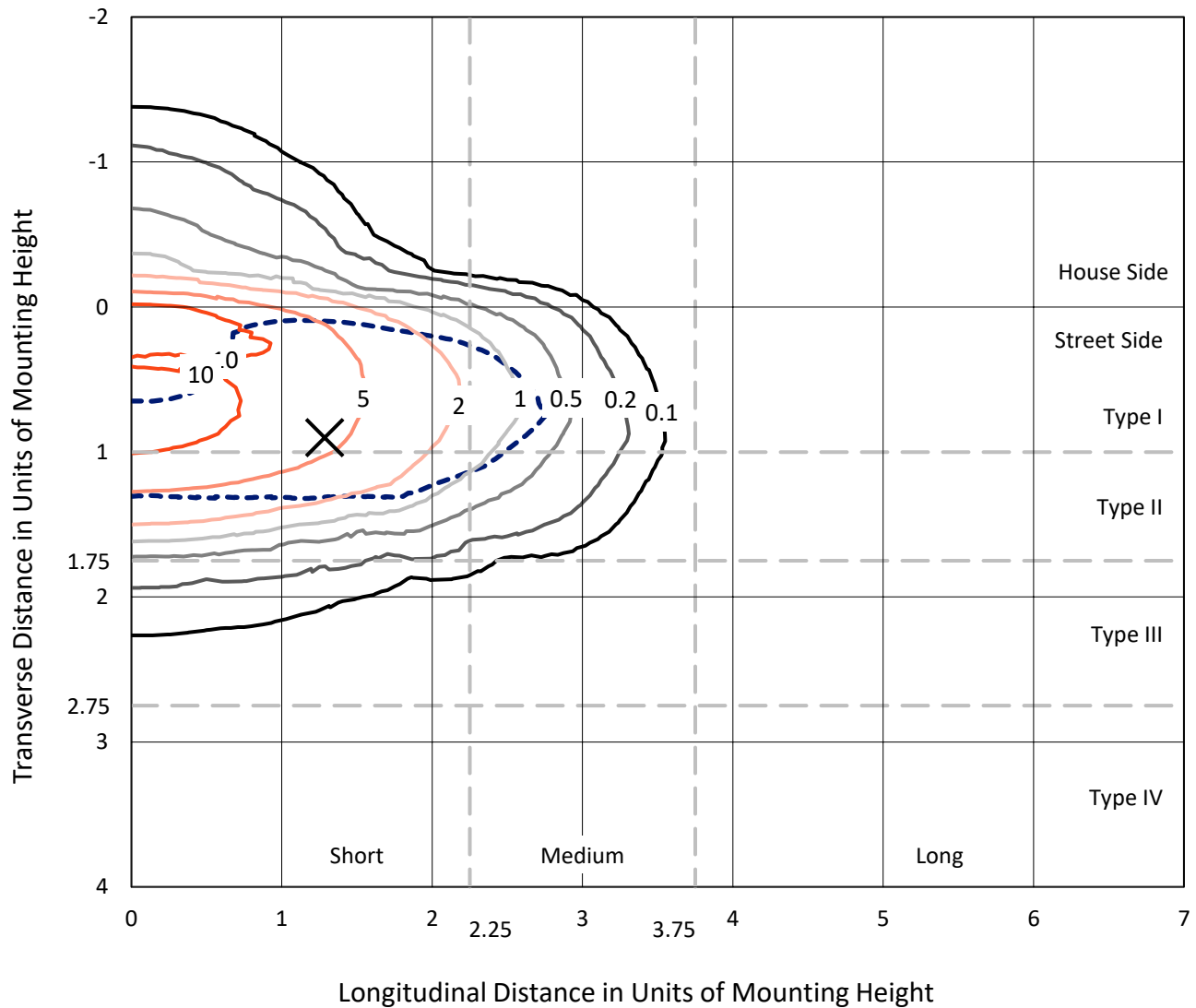
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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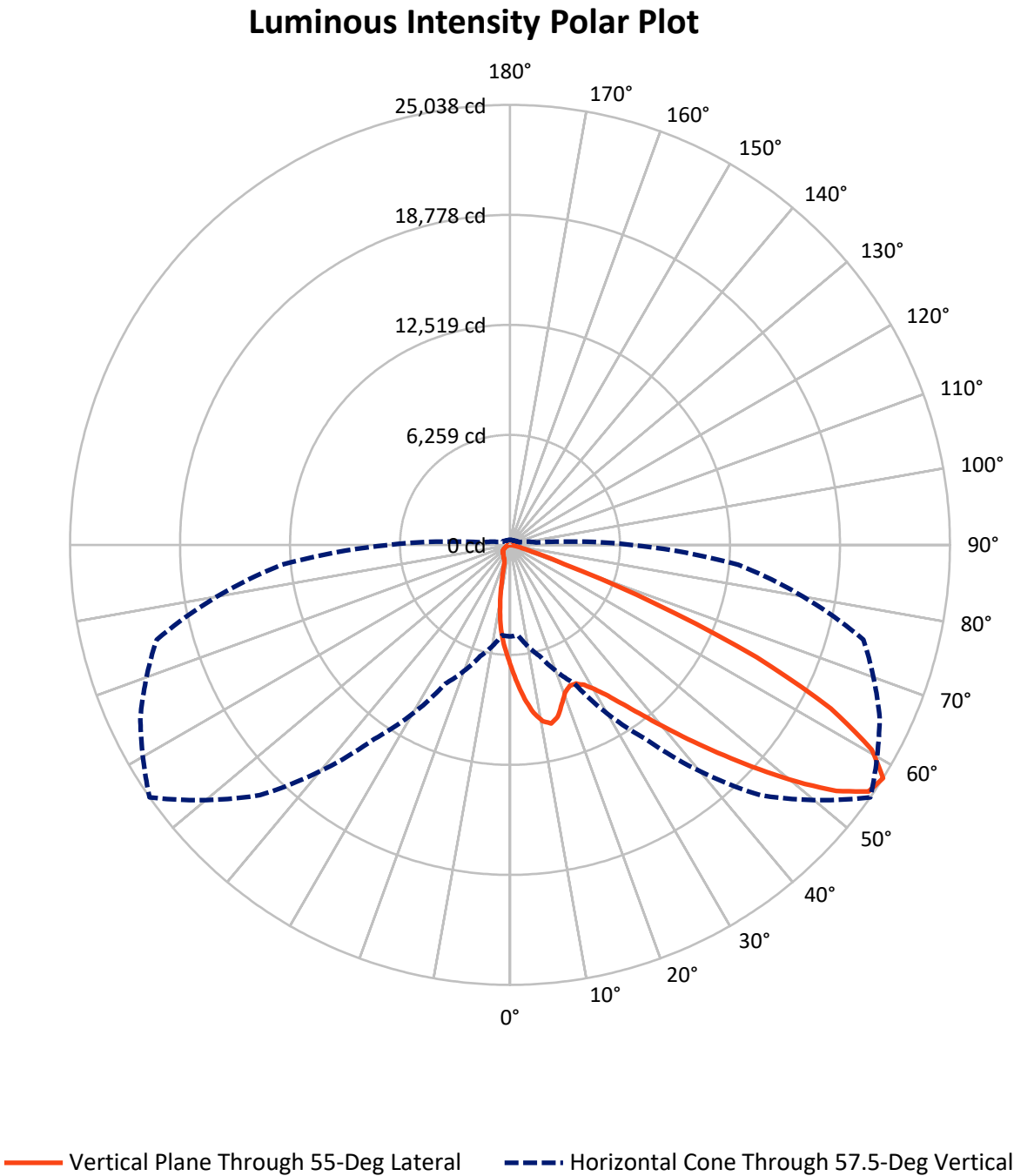
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
 Type II - Short - N/A

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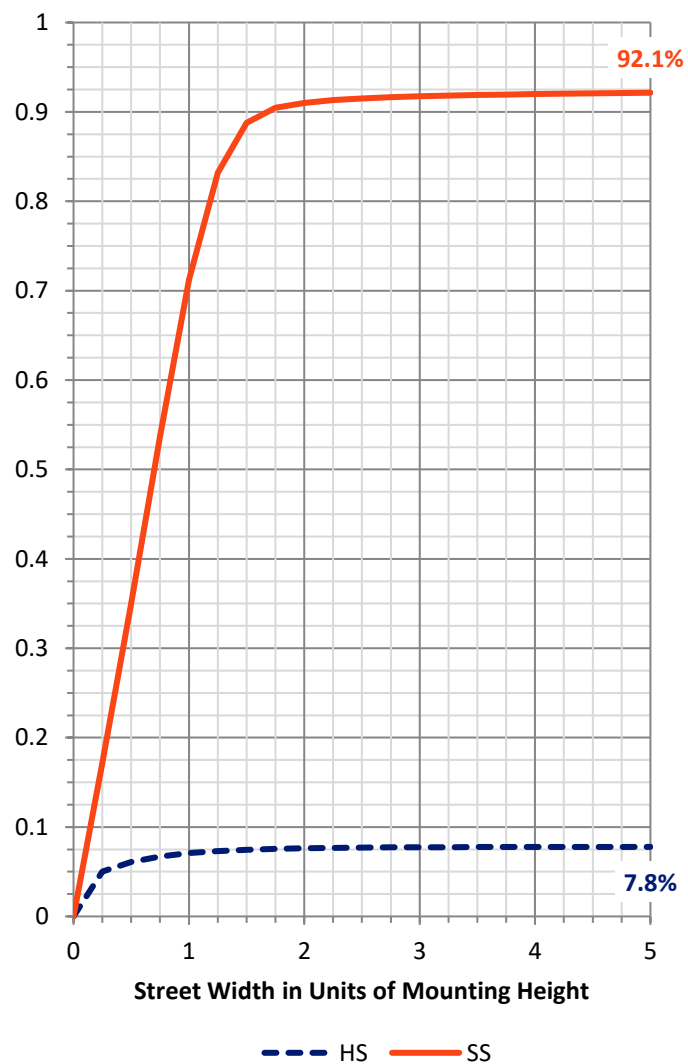
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2240.3	0.0	2240.3
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	26445.7	0.0	26445.7
	% Fixture	92.2	0.0	92.2
Total	Lumens	28686.0	0.0	28686.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	643.2	2.2
10°-20°	1553.6	5.4
20°-30°	2485.7	8.7
30°-40°	4207.3	14.7
40°-50°	6907.5	24.1
50°-60°	7591.8	26.5
60°-70°	4354.7	15.2
70°-80°	889.8	3.1
80°-90°	52.5	0.2
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°	28686.0	100.0
0°-180°	28686.0	100.0

Coefficient of Utilization



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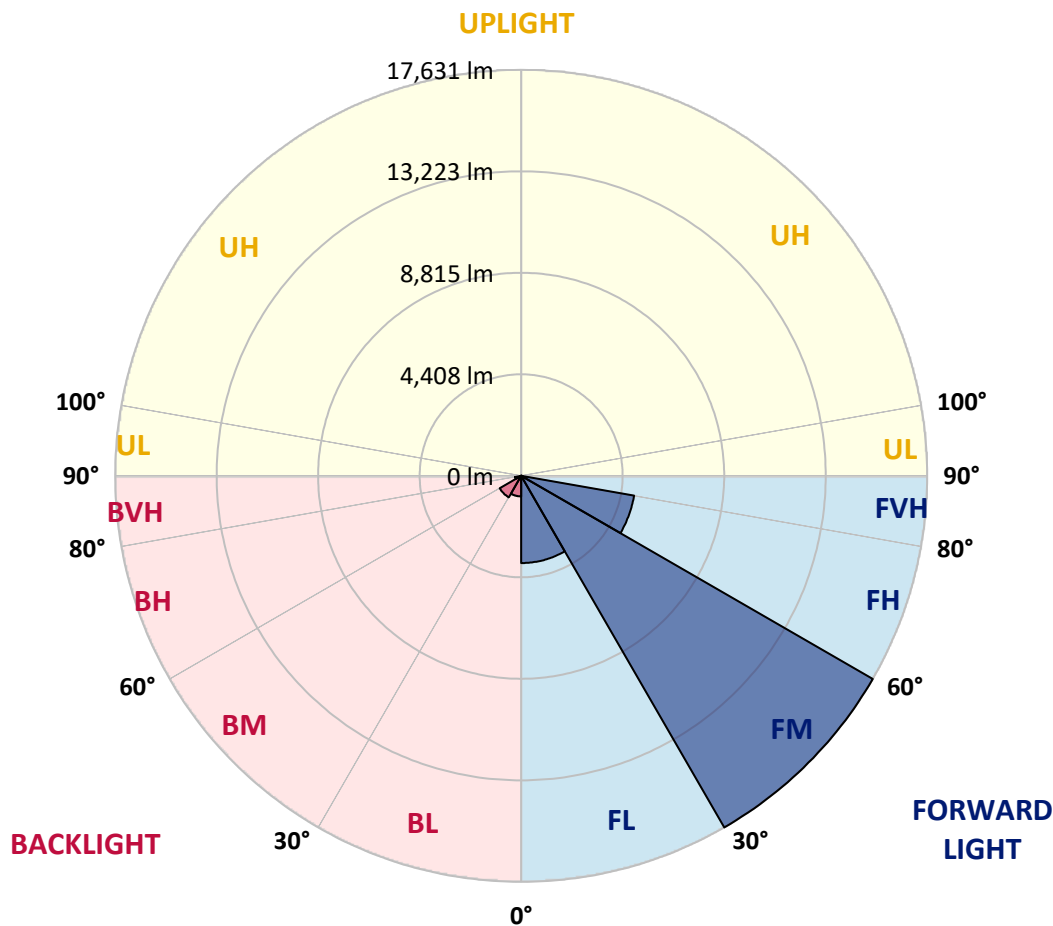
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3788.2	13.2			
FM	(30°-60°)	17630.6	61.5			
FH	(60°-80°)	4978.0	17.4			G2/5000
FVH	(80°-90°)	48.9	0.2			G1/100
BL	(0°-30°)	894.4	3.1	B2/1000		
BM	(30°-60°)	1075.9	3.8	B2/2500		
BH	(60°-80°)	266.4	0.9	B1/500		G1/500
BVH	(80°-90°)	3.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6912.6	6912.6	6912.6	6912.6	6912.6	6912.6	6912.6	6912.6	6912.6	6912.6	6912.6
2.5°	8577.1	8469.2	8453.3	8432.1	8226.9	8073.0	7850.1	7606.0	7331.8	7052.4	6928.5
5°	9909.0	9824.1	9808.2	9709.2	9475.7	9213.9	8817.7	8317.1	7805.9	7204.5	6946.2
7.5°	10167.3	10151.4	10223.9	10220.3	10188.5	9981.6	9647.2	9051.1	8283.5	7392.0	6992.2
10°	9015.8	9056.5	9272.2	9461.5	9972.7	10269.9	10197.4	9705.6	8775.2	7606.0	7043.5
12.5°	7966.8	7919.1	8073.0	8287.0	8881.3	9765.8	10425.5	10252.2	9337.7	7848.3	7119.6
15°	7308.8	7289.4	7376.1	7475.1	7927.9	8819.4	10160.2	10696.2	9879.0	8134.9	7234.5
17.5°	7098.3	7082.4	7109.0	7133.7	7427.4	8117.2	9528.7	10968.6	10397.2	8462.1	7361.9
20°	7269.9	7248.7	7245.2	7225.7	7347.8	7818.3	8957.4	10988.0	10862.4	8759.3	7471.6
22.5°	7770.5	7745.7	7659.1	7581.2	7591.9	7858.9	8702.7	10793.4	11212.7	9037.0	7540.6
25°	8677.9	8637.2	8456.8	8195.0	8028.8	8142.0	8741.6	10537.0	11547.0	9254.6	7506.9
27.5°	9813.5	9760.4	9528.7	9139.6	8759.3	8621.3	9022.8	10360.1	11824.7	9420.8	7434.4
30°	10926.1	10857.1	10628.9	10326.5	9771.1	9335.9	9530.5	10437.9	12155.5	9594.2	7338.9
32.5°	12127.2	12061.7	11759.2	11384.2	10924.3	10338.9	10225.7	10818.2	12560.5	9836.5	7271.7
35°	13646.6	13544.0	13114.2	12603.0	12114.8	11522.2	11166.7	11474.5	13100.0	10206.2	7308.8
37.5°	15376.5	15238.5	14775.1	14069.3	13432.6	12769.2	12312.9	12376.6	13890.7	10701.5	7423.8
40°	17007.4	16881.8	16453.7	15788.6	14989.1	14184.3	13697.9	13556.4	14982.1	11304.6	7625.5
42.5°	17985.5	17872.3	17691.9	17410.7	16736.7	15916.0	15302.2	14996.2	16273.3	12026.3	7871.3
45°	18040.4	17941.3	18183.7	18510.9	18378.2	17831.7	17083.4	16522.7	17569.9	12703.8	8126.0
47.5°	17163.0	17095.8	17831.7	18974.3	19543.9	19773.8	19084.0	17921.9	18640.0	13190.2	8230.4
50°	14771.6	14746.8	16260.9	18358.8	19987.9	21475.5	21194.2	19223.7	19469.6	13441.4	8131.3
52.5°	12808.2	12717.9	13600.6	16388.3	19342.2	22370.5	23256.7	20500.8	20049.8	13489.2	7899.6
55°	9714.5	9634.9	10742.2	13091.2	17260.3	22052.1	24765.5	21818.6	20465.5	13367.1	7484.0
57.5°	5211.0	5161.5	6560.6	8713.3	13492.7	20141.8	25037.9	23212.5	20815.7	13043.4	6902.0
60°	2028.9	2020.0	2543.6	4227.5	8200.3	16386.5	23663.5	24049.1	21035.0	12645.4	6415.6
62.5°	1227.6	1254.1	1339.0	1898.0	3622.6	10179.7	20495.5	23097.5	21181.8	12281.0	6014.0
65°	1015.3	1017.1	1027.7	1303.6	1735.2	4259.4	15429.6	19966.6	20819.2	11631.9	5444.5
67.5°	870.3	886.2	926.9	1034.8	1224.0	1867.9	8883.1	15466.7	18613.5	10121.3	4556.5
70°	686.3	707.5	758.8	850.8	944.6	1169.2	3283.0	10291.1	14219.7	7629.0	3445.7
72.5°	578.4	576.6	603.2	691.6	750.0	822.5	1263.0	5766.4	8264.0	3642.0	1705.2
75°	447.5	465.2	498.8	578.4	613.8	596.1	684.5	2106.7	2961.0	1103.8	580.2
77.5°	350.2	364.4	394.5	472.3	507.7	422.8	394.5	753.5	951.6	396.2	261.8
80°	157.4	169.8	268.9	348.5	413.9	291.9	214.0	385.6	422.8	180.4	132.7
82.5°	28.3	47.8	157.4	184.0	212.3	189.3	111.4	199.9	207.0	72.5	46.0
85°	1.8	3.5	54.8	67.2	84.9	61.9	33.6	79.6	69.0	24.8	17.7
87.5°	0.0	0.0	0.0	1.8	1.8	8.8	10.6	14.2	10.6	8.8	7.1
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°	6912.6	6912.6	6912.6	6912.6	6912.6	6912.6	6912.6	6912.6	6912.6	6912.6
2.5°	6801.2	6550.0	6305.9	6106.0	5989.3	5791.2	5660.3	5639.1	5584.2	5632.0
5°	6670.3	6221.0	5766.4	5359.6	5025.3	4593.7	4271.7	4135.5	4017.0	4057.7
7.5°	6608.4	5899.1	5191.5	4496.4	3781.8	3091.9	2579.0	2364.9	2202.2	2225.2
10°	6525.2	5564.8	4455.7	3394.4	2437.5	1756.5	1402.7	1271.8	1199.3	1201.0
12.5°	6461.6	5165.0	3601.4	2301.3	1484.1	1121.4	1011.8	979.9	958.7	960.5
15°	6429.7	4694.5	2757.6	1533.6	1061.3	949.9	923.3	909.2	895.0	893.3
17.5°	6376.7	4170.9	2018.2	1119.7	928.6	889.7	866.7	850.8	833.1	829.6
20°	6297.1	3576.6	1475.2	946.3	870.3	840.2	808.4	787.1	765.9	762.4
22.5°	6150.2	2948.7	1133.8	875.6	827.8	794.2	755.3	730.5	709.3	705.8
25°	5877.8	2359.6	955.2	831.4	790.7	750.0	707.5	673.9	654.5	650.9
27.5°	5532.9	1853.7	866.7	790.7	742.9	705.8	658.0	626.2	608.5	604.9
30°	5126.1	1427.5	815.4	744.7	686.3	654.5	612.0	585.5	574.9	574.9
32.5°	4687.4	1140.9	794.2	698.7	636.8	601.4	567.8	557.2	553.6	551.9
35°	4275.3	990.5	783.6	661.5	592.6	559.0	544.8	546.6	553.6	553.6
37.5°	3909.1	942.8	778.3	635.0	553.6	523.6	532.4	548.3	541.3	541.3
40°	3578.4	948.1	774.8	615.6	521.8	504.1	521.8	509.4	491.7	490.0
42.5°	3325.4	992.3	767.7	599.6	502.4	490.0	482.9	463.4	461.7	465.2
45°	3141.5	1031.2	765.9	592.6	481.1	458.1	449.3	429.8	465.2	474.0
47.5°	2923.9	1031.2	765.9	567.8	445.7	436.9	422.8	401.5	436.9	445.7
50°	2642.6	965.8	735.8	539.5	417.4	412.1	387.4	360.8	353.8	359.1
52.5°	2287.1	847.3	659.8	500.6	389.1	378.5	348.5	329.0	323.7	323.7
55°	1882.0	709.3	557.2	444.0	359.1	339.6	318.4	309.5	304.2	300.7
57.5°	1530.0	581.9	447.5	394.5	330.8	306.0	298.9	288.3	279.5	274.2
60°	1255.9	458.1	369.7	350.2	302.5	279.5	277.7	263.6	240.6	237.0
62.5°	969.3	336.1	311.3	304.2	274.2	254.7	251.2	222.9	187.5	180.4
65°	684.5	261.8	251.2	267.1	244.1	226.4	217.6	175.1	138.0	132.7
67.5°	481.1	219.3	198.1	233.5	212.3	189.3	184.0	148.6	115.0	111.4
70°	343.2	178.7	162.7	199.9	169.8	166.3	155.7	123.8	93.7	90.2
72.5°	242.3	136.2	125.6	173.3	116.7	143.3	127.4	95.5	70.8	67.2
75°	178.7	97.3	88.4	100.8	84.9	107.9	90.2	63.7	44.2	42.5
77.5°	130.9	61.9	53.1	49.5	49.5	67.2	49.5	26.5	19.5	17.7
80°	92.0	28.3	24.8	21.2	19.5	15.9	7.1	3.5	1.8	1.8
82.5°	54.8	12.4	12.4	8.8	5.3	0.0	0.0	0.0	0.0	0.0
85°	12.4	5.3	5.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)