

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: P954505

Luminaire Tested: **GALN-SB7D-727-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-727-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51299 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 512.8
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

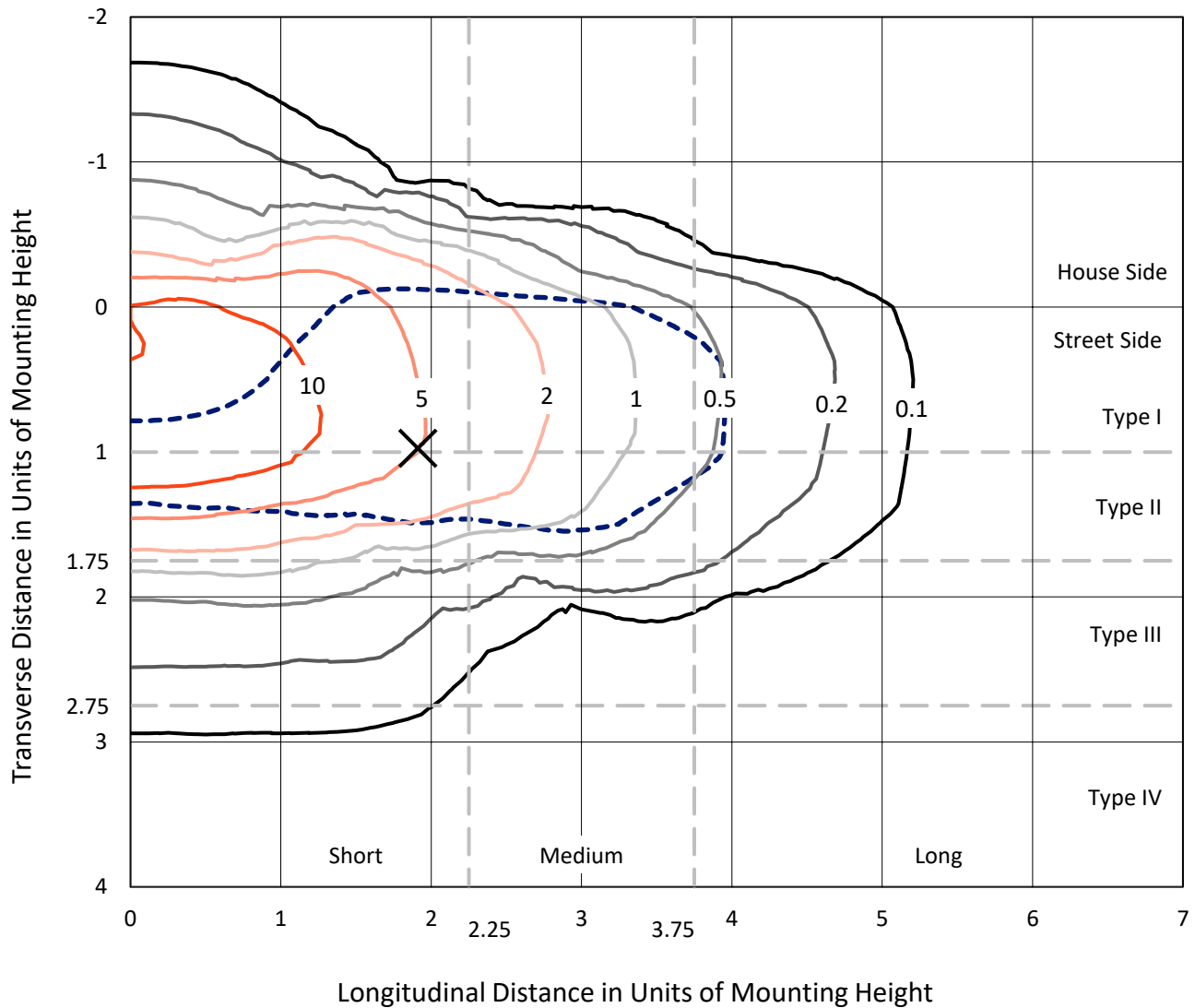


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

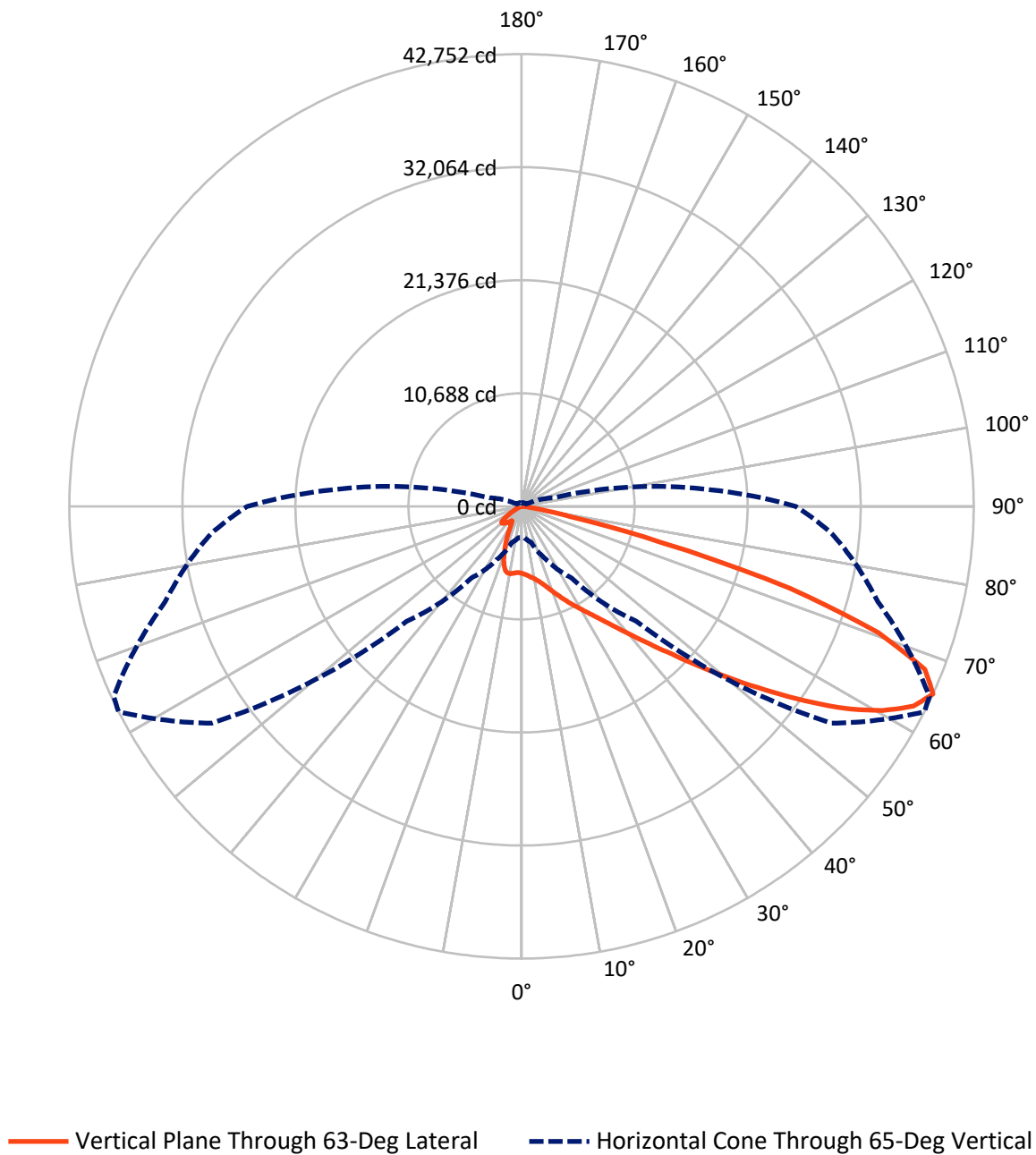


Based on 25 foot mounting height. Maximum calculated value = 17.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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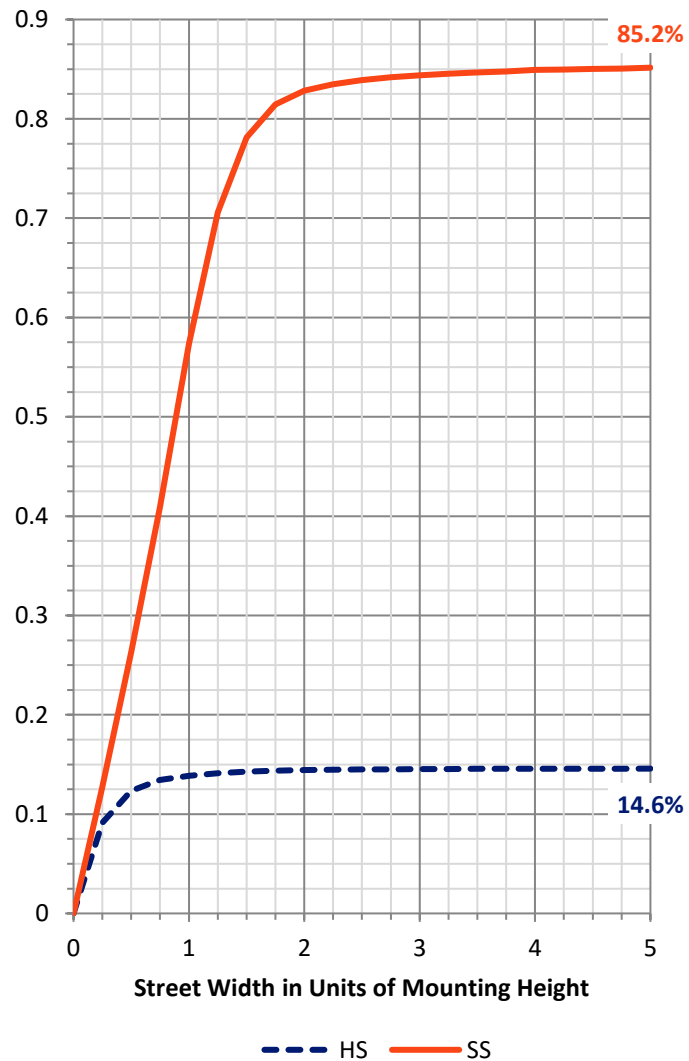
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7540.6	0.0	7540.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	43758.4	0.0	43758.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	51299.0	0.0	51299.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.5	1.2
10°-20°	1655.1	3.2
20°-30°	2882.0	5.6
30°-40°	5194.5	10.1
40°-50°	10302.4	20.1
50°-60°	14033.6	27.4
60°-70°	11201.5	21.8
70°-80°	5068.9	9.9
80°-90°	364.4	0.7
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°	51299.0	100.0
0°-180°	51299.0	100.0

Coefficient of Utilization



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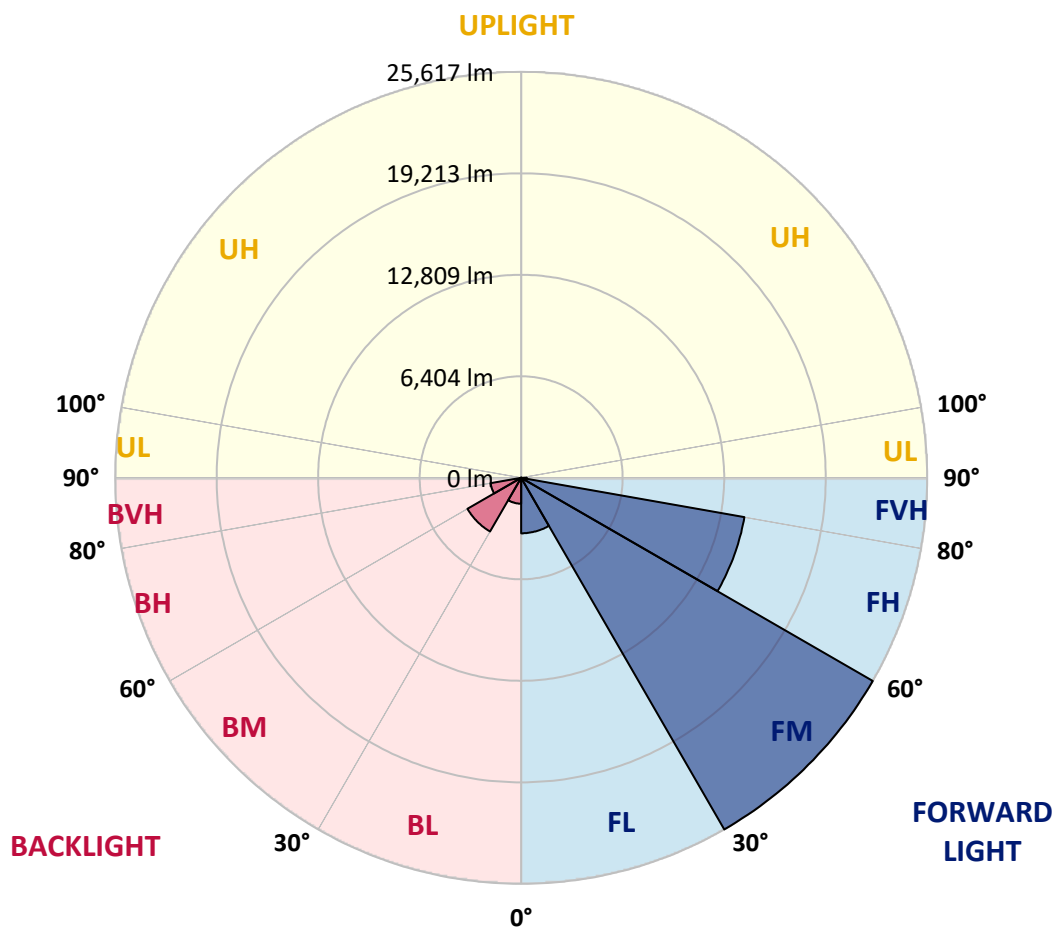
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3501.8	6.8			
FM	(30°-60°)	25617.4	49.9			
FH	(60°-80°)	14301.9	27.9			G5
FVH	(80°-90°)	337.3	0.7			G3/500
BL	(0°-30°)	1631.9	3.2	B3/2500		
BM	(30°-60°)	3913.1	7.6	B3/5000		
BH	(60°-80°)	1968.5	3.8	B3/2500		G3/2500
BVH	(80°-90°)	27.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	6331.3	6331.3	6331.3	6331.3	6331.3	6331.3	6331.3	6331.3	6331.3	6331.3	6331.3
2.5°	6479.5	6461.8	6486.5	6476.0	6468.9	6454.8	6447.7	6440.7	6426.6	6416.0	6373.6
5°	6497.1	6486.5	6511.3	6532.4	6553.6	6574.8	6585.4	6599.5	6585.4	6557.1	6514.8
7.5°	6348.9	6341.9	6394.8	6458.3	6553.6	6634.8	6723.0	6772.4	6775.9	6765.3	6719.5
10°	6338.3	6320.7	6373.6	6451.3	6574.8	6719.5	6874.8	6980.6	6994.7	7040.6	6991.2
12.5°	6504.2	6486.5	6560.7	6645.4	6772.4	6924.2	7114.7	7263.0	7284.1	7347.7	7312.4
15°	6783.0	6758.3	6843.0	6952.4	7114.7	7287.7	7488.8	7622.9	7640.6	7718.2	7654.7
17.5°	7107.7	7083.0	7181.8	7298.2	7474.7	7711.2	7944.1	8092.3	8113.5	8162.9	8046.4
20°	7524.1	7492.4	7570.0	7675.9	7862.9	8145.2	8424.0	8635.8	8632.3	8632.3	8441.7
22.5°	8007.6	7958.2	8025.3	8109.9	8286.4	8628.7	8999.3	9249.9	9249.9	9151.0	8837.0
25°	8526.4	8477.0	8551.1	8628.7	8784.0	9172.2	9606.3	9916.9	9931.0	9761.6	9260.4
27.5°	9175.7	9112.2	9168.7	9260.4	9352.2	9747.5	10262.7	10622.7	10629.8	10368.6	9662.8
30°	10425.1	10245.1	10068.6	9969.8	10012.2	10403.9	10954.4	11353.2	11388.5	11028.5	10100.4
32.5°	12711.9	12676.6	12055.5	11243.8	10820.3	11109.7	11727.3	12207.3	12228.4	11766.1	10668.6
35°	16265.8	16223.4	15224.7	13678.9	12299.0	12055.5	12666.1	13234.3	13220.1	12697.8	11406.2
37.5°	20507.8	20469.0	19152.6	17084.5	14850.6	13484.8	13876.6	14473.0	14561.2	13876.6	12359.0
40°	24132.2	23987.5	23154.6	21160.7	18238.6	15856.4	15598.8	15994.0	16085.8	15274.1	13569.5
42.5°	26877.9	26754.4	26330.9	25085.1	22339.4	19364.4	17628.0	17779.8	17882.1	16908.1	14960.0
45°	28300.1	28271.9	28441.3	28324.8	26517.9	23669.9	20529.0	19897.3	19936.1	18718.5	16537.5
47.5°	28501.3	28487.2	29260.0	30354.1	30110.6	28526.0	24252.2	22537.0	22399.4	20761.9	18252.7
50°	27315.5	27287.3	28769.5	30819.9	32510.4	32605.7	28480.1	25512.1	25208.6	22875.8	20042.0
52.5°	23528.7	23521.7	25956.8	29369.5	33353.8	36177.1	32658.6	28780.1	28271.9	25113.3	21933.6
55°	18104.5	18235.0	21026.6	25060.4	31815.1	37895.8	36410.1	32408.0	31628.1	27364.9	23677.0
57.5°	12824.9	13015.4	15775.2	19367.9	27043.8	36879.4	38947.5	36043.0	35203.1	29609.4	25445.1
60°	6888.9	7058.3	9821.6	14109.5	20119.6	33089.2	40285.1	39198.1	38404.0	31741.0	27040.2
62.5°	4104.4	4160.8	5304.3	9108.7	13608.3	25279.2	39716.9	41601.4	40948.5	33530.3	28427.2
65°	2946.8	2957.4	3532.7	5561.9	8261.7	15358.8	35732.5	42751.9	42550.8	34878.4	29454.1
67.5°	2481.0	2473.9	2713.9	3695.0	5629.0	7693.5	27386.1	41125.0	41979.0	35732.5	30036.5
70°	2128.1	2138.7	2421.0	2706.8	4231.4	4355.0	13615.4	35806.6	37627.6	35958.3	30001.2
72.5°	1584.6	1619.9	1881.0	2466.9	3193.9	2996.2	4700.8	26549.7	29842.4	33879.7	28444.8
75°	1118.7	1136.4	1323.4	2075.1	2382.2	2181.0	2399.8	13724.8	17945.6	25974.4	23281.7
77.5°	861.1	892.9	1002.3	1450.5	2346.9	1531.6	1468.1	4750.2	7298.2	15690.5	15962.3
80°	465.8	522.3	723.5	1048.2	1648.1	1083.4	727.0	1891.6	2473.9	7337.1	6154.8
82.5°	240.0	268.2	504.7	755.2	938.7	945.8	360.0	787.0	1019.9	2265.7	843.5
85°	95.3	116.5	338.8	416.4	483.5	465.8	162.3	317.6	367.0	628.2	257.6
87.5°	21.2	35.3	123.5	95.3	91.8	98.8	38.8	74.1	70.6	74.1	45.9
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°	6331.3	6331.3	6331.3	6331.3	6331.3	6331.3	6331.3	6331.3	6331.3	6331.3	6331.3
2.5°	6370.1	6356.0	6317.1	6274.8	6225.4	6197.2	6179.5	6176.0	6151.3	6133.6	6151.3
5°	6476.0	6461.8	6387.7	6299.5	6204.2	6130.1	6059.5	5996.0	5904.2	5886.6	5879.5
7.5°	6687.7	6648.9	6528.9	6408.9	6228.9	6013.6	5752.5	5452.5	5184.3	5103.1	5064.3
10°	6948.9	6895.9	6744.2	6532.4	6133.6	5547.8	4916.1	4330.2	3864.4	3733.8	3684.4
12.5°	7245.3	7199.4	6998.3	6606.5	5734.8	4672.6	3705.6	2978.6	2526.9	2413.9	2382.2
15°	7598.2	7531.2	7252.4	6493.6	5022.0	3550.3	2544.5	2114.0	1951.6	1930.4	1909.3
17.5°	7972.3	7862.9	7478.2	6087.8	4062.0	2523.3	1965.7	1842.2	1771.6	1750.5	1739.9
20°	8314.6	8173.5	7612.3	5473.7	3035.1	1965.7	1761.0	1679.9	1616.3	1591.6	1577.5
22.5°	8657.0	8455.8	7612.3	4637.3	2276.3	1743.4	1616.3	1542.2	1468.1	1436.4	1418.7
25°	9013.4	8745.2	7478.2	3705.6	1831.6	1598.7	1478.7	1397.5	1334.0	1295.2	1281.1
27.5°	9359.3	8988.7	7171.2	2823.3	1630.5	1471.6	1351.7	1274.0	1214.0	1185.8	1185.8
30°	9687.5	9228.7	6740.6	2142.2	1499.9	1348.1	1235.2	1168.1	1108.1	1079.9	1083.4
32.5°	10132.1	9532.2	6281.9	1757.5	1386.9	1231.7	1129.3	1065.8	1012.9	991.7	991.7
35°	10749.7	9980.4	5886.6	1725.7	1291.7	1136.4	1034.0	974.0	921.1	903.5	903.5
37.5°	11625.0	10703.9	5678.4	1937.5	1214.0	1051.7	956.4	892.9	843.5	829.3	825.8
40°	12704.9	11685.0	5791.3	2149.2	1161.1	977.6	885.8	822.3	779.9	762.3	758.8
42.5°	13986.0	12895.5	6416.0	2311.6	1125.8	914.0	818.8	748.2	719.9	712.9	712.9
45°	15457.6	14225.9	7372.4	2484.5	1069.3	854.1	751.7	698.8	677.6	674.1	670.5
47.5°	17130.4	15687.0	8480.5	2699.8	1012.9	797.6	698.8	663.5	645.8	638.8	638.8
50°	18789.1	17158.6	9620.4	2819.8	967.0	744.6	656.4	628.2	614.1	610.5	610.5
52.5°	20525.4	18672.6	10541.5	2706.8	928.2	702.3	621.1	600.0	585.8	582.3	582.3
55°	22180.6	19897.3	10700.3	2297.5	850.5	659.9	582.3	571.7	554.1	554.1	550.5
57.5°	23606.4	20511.3	9578.1	1686.9	772.9	596.4	543.5	532.9	518.8	515.3	511.7
60°	24915.7	20334.9	7393.5	1136.4	688.2	532.9	494.1	487.0	472.9	455.3	451.7
62.5°	25653.3	19558.5	5057.2	741.1	603.5	465.8	437.6	434.1	402.3	367.0	360.0
65°	25932.1	17963.3	3155.0	540.0	504.7	398.8	377.6	370.6	324.7	285.9	282.3
67.5°	25688.6	15337.6	1591.6	427.0	398.8	331.7	310.6	310.6	278.8	243.5	240.0
70°	24714.5	11497.9	670.5	342.3	307.0	254.1	254.1	268.2	236.5	197.6	194.1
72.5°	22600.6	7735.9	356.4	261.2	229.4	180.0	208.2	218.8	187.0	148.2	148.2
75°	17966.8	4718.5	247.0	194.1	144.7	127.0	158.8	165.9	127.0	98.8	95.3
77.5°	12288.4	2710.4	165.9	123.5	91.8	74.1	109.4	102.3	67.1	45.9	49.4
80°	5396.0	1129.3	95.3	56.5	35.3	28.2	38.8	28.2	21.2	14.1	14.1
82.5°	631.7	264.7	35.3	21.2	14.1	7.1	3.5	0.0	0.0	0.0	0.0
85°	130.6	31.8	17.6	7.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.7	7.1	3.5	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	0.0

(END OF REPORT)