

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: P956630

Luminaire Tested: **GALN-SB9B-722-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-722-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32637 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

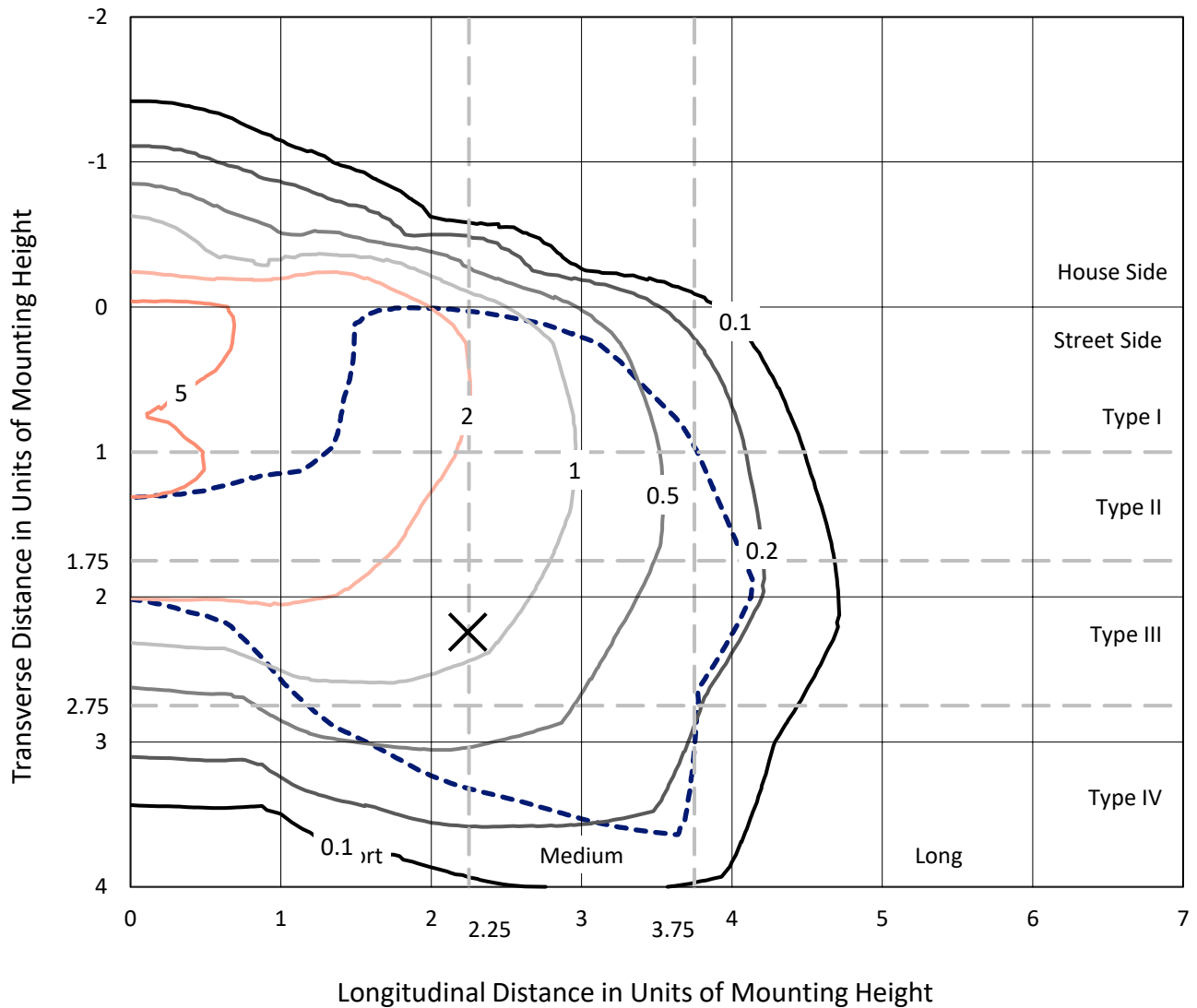
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

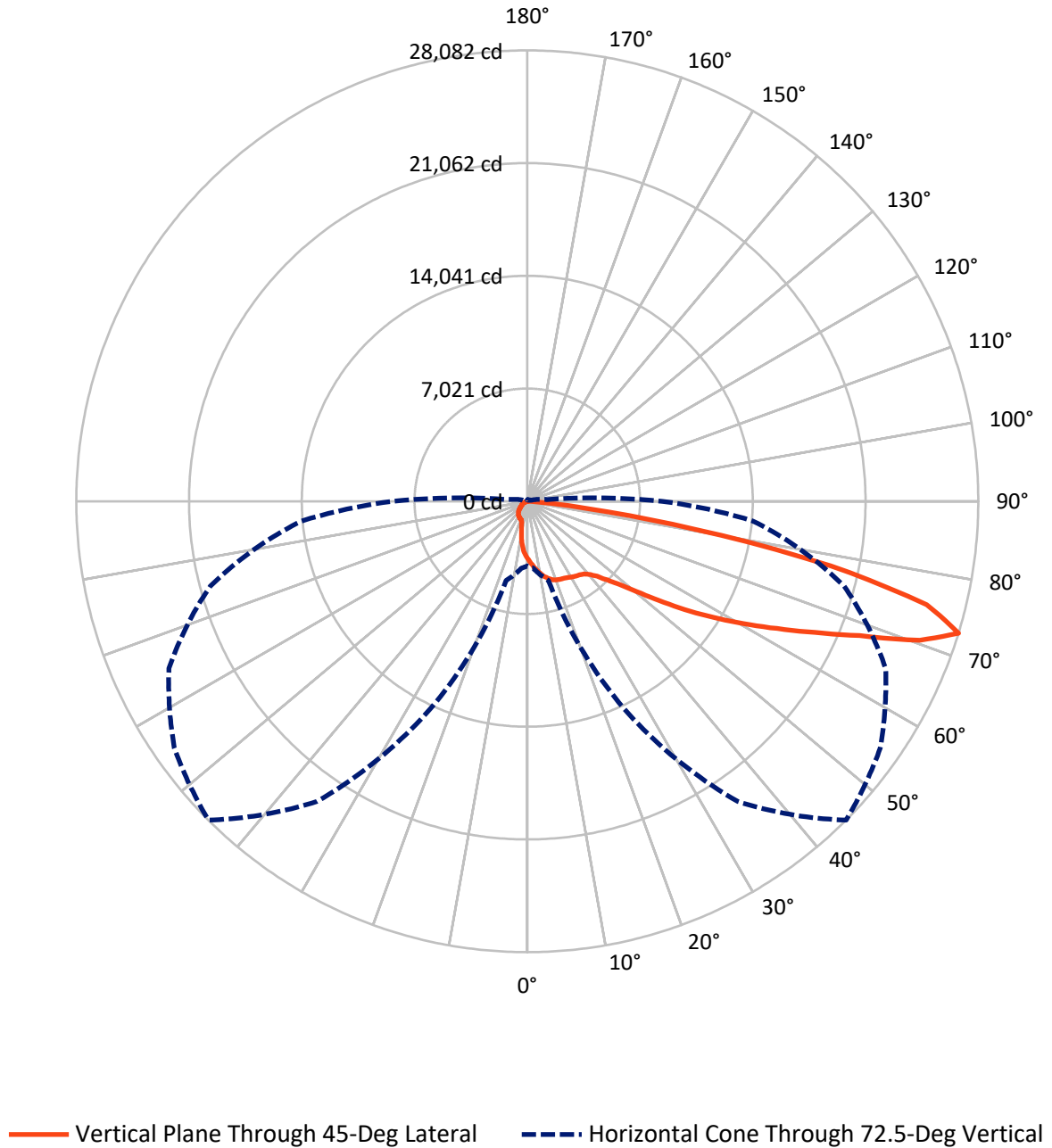
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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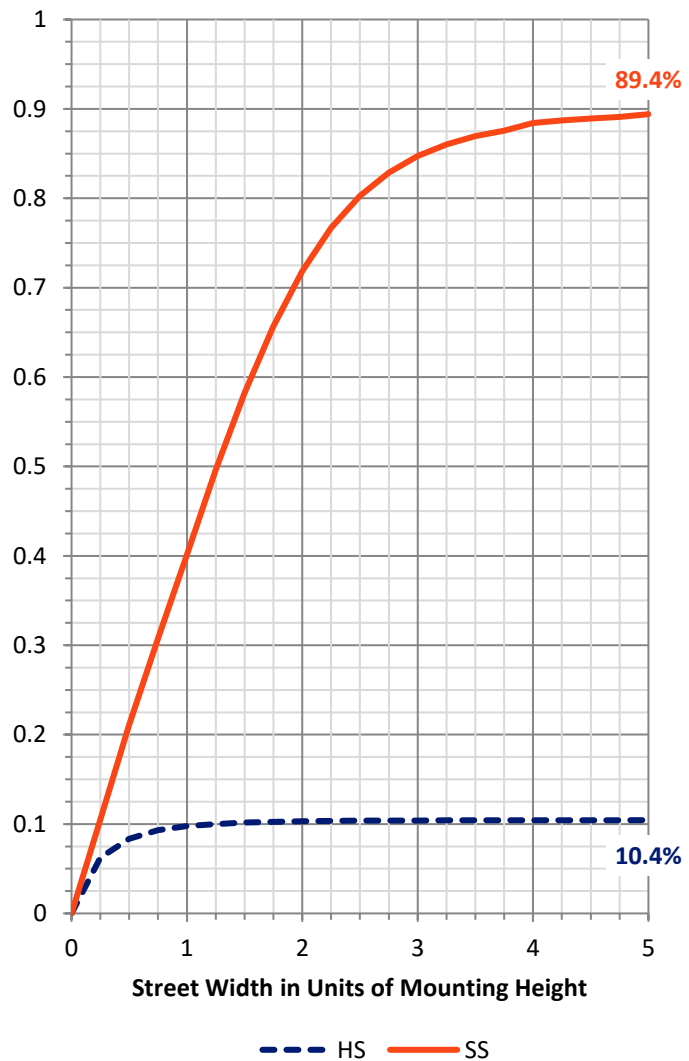
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3429.2	0.0	3429.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	29207.8	0.0	29207.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	32637.0	0.0	32637.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.9	1.0
10°-20°	984.6	3.0
20°-30°	1616.8	5.0
30°-40°	2293.0	7.0
40°-50°	3790.1	11.6
50°-60°	6808.5	20.9
60°-70°	9453.9	29.0
70°-80°	6857.6	21.0
80°-90°	495.8	1.5
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°	32637.0	100.0
0°-180°	32637.0	100.0

Coefficient of Utilization



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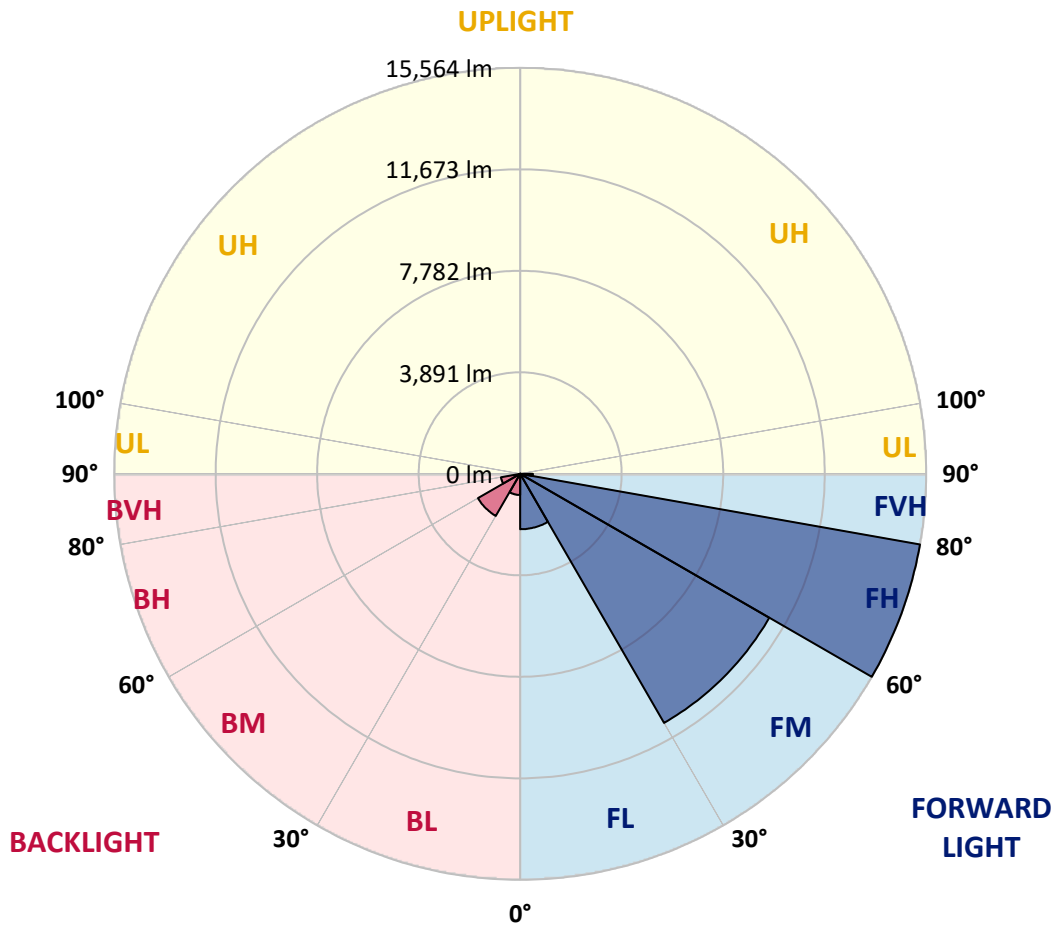
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2126.0	6.5			
FM (30°-60°)	11026.5	33.8			
FH (60°-80°)	15563.7	47.7			G5
FVH (80°-90°)	491.6	1.5			G3/500
BL (0°-30°)	812.3	2.5	B2/1000		
BM (30°-60°)	1865.0	5.7	B2/2500		
BH (60°-80°)	747.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.2	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3575.5	3575.5	3575.5	3575.5	3575.5	3575.5	3575.5	3575.5	3575.5	3575.5	3575.5
2.5°	3905.2	3911.8	3907.4	3880.6	3836.1	3811.6	3798.2	3753.7	3724.7	3673.5	3620.0
5°	4263.8	4290.5	4274.9	4221.5	4136.8	4076.7	4058.9	3967.5	3885.1	3789.3	3677.9
7.5°	4644.7	4658.1	4629.2	4560.1	4446.5	4344.0	4328.4	4201.4	4070.0	3923.0	3771.5
10°	4974.4	4990.0	4945.5	4845.2	4716.0	4589.1	4566.8	4426.4	4270.5	4090.1	3896.2
12.5°	5250.7	5266.3	5208.4	5088.1	4945.5	4814.1	4791.8	4644.7	4473.2	4272.7	4032.1
15°	5460.1	5489.0	5411.1	5281.9	5128.2	4996.7	4985.6	4840.8	4673.7	4450.9	4194.8
17.5°	5582.6	5611.6	5538.1	5382.1	5250.7	5139.3	5125.9	5005.6	4849.7	4635.8	4352.9
20°	5602.7	5629.4	5551.4	5415.5	5306.4	5217.3	5210.6	5123.7	5010.1	4805.1	4524.5
22.5°	5542.5	5575.9	5504.6	5395.5	5319.7	5273.0	5264.0	5215.0	5150.4	4976.7	4684.8
25°	5480.1	5506.9	5453.4	5357.6	5317.5	5313.1	5319.7	5310.8	5297.5	5150.4	4872.0
27.5°	5475.7	5504.6	5444.5	5353.2	5330.9	5377.7	5384.3	5426.7	5437.8	5308.6	5052.4
30°	5513.5	5533.6	5475.7	5379.9	5368.7	5475.7	5477.9	5553.6	5571.5	5442.3	5230.6
32.5°	5596.0	5618.3	5560.3	5420.0	5404.4	5553.6	5560.3	5660.6	5689.5	5584.8	5417.8
35°	5789.8	5816.5	5749.7	5531.4	5475.7	5627.2	5647.2	5765.3	5823.2	5736.3	5611.6
37.5°	6273.2	6195.2	6103.9	5756.4	5638.3	5743.0	5776.4	5914.5	6017.0	5916.8	5843.2
40°	7473.9	7228.9	6943.7	6139.5	5923.4	5990.3	6017.0	6155.1	6295.5	6197.5	6161.8
42.5°	9276.1	8986.5	8527.6	7021.7	6353.4	6386.8	6406.9	6527.2	6725.4	6647.4	6656.4
45°	10882.3	10777.6	10309.8	8527.6	7157.6	6992.7	7017.2	7079.6	7371.4	7342.5	7400.4
47.5°	12116.4	12056.3	11695.4	10256.3	8516.5	7734.6	7803.6	7832.6	8253.6	8356.1	8512.0
50°	13065.4	13043.2	12720.1	11793.4	10292.0	8828.4	8852.9	8790.5	9420.9	9674.9	9971.2
52.5°	13961.0	14036.7	13798.4	13221.4	12187.7	10260.8	10256.3	9962.3	10813.2	11196.4	11702.1
55°	14769.6	14796.4	14820.9	14678.3	14094.6	11891.4	11849.1	11367.9	12428.3	12824.8	13372.9
57.5°	15529.3	15540.4	15758.7	16050.6	16079.5	13642.4	13564.4	12987.5	14192.7	14475.6	14812.0
60°	16039.4	16090.7	16551.8	17362.7	17716.9	15449.1	15406.7	14818.6	15988.2	16119.6	16057.2
62.5°	15304.3	15616.2	16779.0	18387.4	19262.9	17451.8	17431.7	16879.3	17877.3	17770.3	17235.7
65°	12388.2	12916.2	14961.2	19080.2	20780.0	19688.4	19717.3	19129.2	19817.6	19470.1	18193.6
67.5°	8665.7	9222.7	11641.9	19135.9	22475.2	22314.8	22481.9	21559.6	21878.2	21098.5	18420.8
70°	5992.5	6279.9	7854.9	17937.4	23796.3	25932.6	25928.2	24544.8	23927.7	21840.3	17262.4
72.5°	4029.9	4179.2	5101.4	14230.5	22825.0	28082.3	27953.1	26825.9	24618.3	20425.7	14103.5
75°	1699.7	1808.9	2361.4	7997.4	18057.7	25692.0	25342.3	23707.1	21873.8	16084.0	8799.4
77.5°	539.1	585.9	931.2	2862.6	9946.7	19311.9	18942.1	14805.3	14660.5	8068.7	3216.8
80°	256.2	298.5	523.5	1149.5	3914.1	10503.6	10452.4	6716.5	6306.6	2178.7	646.0
82.5°	111.4	131.4	289.6	614.8	1751.0	3747.0	3822.7	2285.6	1891.3	826.5	198.3
85°	35.6	46.8	133.7	282.9	739.6	931.2	920.0	543.6	761.9	450.0	69.1
87.5°	0.0	0.0	44.6	64.6	75.7	53.5	60.1	46.8	211.6	124.8	24.5
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°	3575.5	3575.5	3575.5	3575.5	3575.5	3575.5	3575.5	3575.5	3575.5	3575.5	3575.5
2.5°	3593.3	3557.6	3495.3	3437.3	3386.1	3334.9	3303.7	3259.1	3254.7	3254.7	3265.8
5°	3617.8	3559.9	3448.5	3330.4	3194.5	3065.3	2936.1	2811.4	2771.3	2742.3	2755.7
7.5°	3689.1	3597.7	3421.7	3196.7	2938.3	2655.4	2457.1	2243.3	2160.9	2116.3	2123.0
10°	3791.5	3666.8	3399.5	3005.2	2586.4	2201.0	1918.0	1686.4	1597.3	1559.4	1559.4
12.5°	3905.2	3751.4	3359.4	2766.8	2201.0	1739.8	1463.6	1356.7	1343.3	1343.3	1343.3
15°	4041.0	3853.9	3290.3	2486.1	1797.8	1376.7	1278.7	1283.2	1296.5	1305.4	1305.4
17.5°	4181.4	3963.1	3181.2	2172.0	1441.3	1238.6	1240.8	1247.5	1258.6	1267.6	1267.6
20°	4332.9	4072.2	3036.4	1837.8	1236.4	1198.5	1205.2	1211.9	1220.8	1225.2	1227.5
22.5°	4495.5	4174.7	2864.8	1510.4	1167.3	1165.1	1167.3	1174.0	1185.1	1185.1	1189.6
25°	4669.3	4288.3	2668.8	1272.0	1131.7	1131.7	1136.1	1140.6	1149.5	1149.5	1151.7
27.5°	4847.5	4393.0	2461.6	1147.3	1100.5	1098.3	1098.3	1104.9	1109.4	1111.6	1113.8
30°	5043.5	4515.5	2254.4	1120.5	1076.0	1064.8	1058.2	1062.6	1067.1	1069.3	1073.7
32.5°	5244.0	4633.6	2069.5	1131.7	1051.5	1031.4	1009.1	1004.7	1004.7	1013.6	1020.3
35°	5466.8	4762.8	1927.0	1169.5	1038.1	982.4	946.8	926.7	928.9	942.3	949.0
37.5°	5734.1	4918.8	1822.3	1203.0	1029.2	926.7	868.8	844.3	828.7	844.3	839.8
40°	6083.8	5148.2	1746.5	1229.7	1018.1	862.1	784.1	744.1	715.1	724.0	719.5
42.5°	6598.4	5509.1	1717.6	1231.9	993.6	786.4	697.3	643.8	601.5	603.7	594.8
45°	7320.2	6079.4	1866.8	1203.0	940.1	704.0	605.9	534.6	507.9	501.2	492.3
47.5°	8309.3	6910.3	2212.1	1142.8	862.1	623.8	516.8	456.7	436.6	425.5	418.8
50°	9634.8	7977.4	2595.3	1076.0	784.1	548.0	443.3	405.4	392.1	380.9	378.7
52.5°	11171.9	9060.0	2909.4	1009.1	706.2	481.2	396.5	374.3	363.1	354.2	352.0
55°	12582.0	9806.3	2891.5	937.9	630.4	427.7	363.1	349.7	336.4	327.5	323.0
57.5°	13459.7	9911.0	2383.6	859.9	543.6	385.4	331.9	323.0	307.4	296.3	294.1
60°	13863.0	9314.0	1670.8	757.4	456.7	345.3	298.5	294.1	274.0	258.4	254.0
62.5°	13936.5	8204.6	1113.8	630.4	380.9	307.4	265.1	258.4	231.7	204.9	191.6
65°	13638.0	6618.5	770.8	492.3	325.2	267.3	227.2	213.9	184.9	158.2	149.3
67.5°	12693.4	4647.0	536.9	354.2	276.2	211.6	180.4	176.0	153.7	131.4	124.8
70°	10962.5	2648.7	358.7	265.1	218.3	144.8	142.6	147.0	124.8	106.9	98.0
72.5°	8405.1	1211.9	222.8	193.8	149.3	98.0	113.6	115.8	95.8	80.2	71.3
75°	4947.7	519.1	140.3	124.8	75.7	64.6	82.4	84.7	64.6	51.2	44.6
77.5°	1684.1	196.0	89.1	73.5	37.9	35.6	53.5	53.5	35.6	20.0	15.6
80°	383.2	73.5	44.6	29.0	17.8	15.6	17.8	15.6	8.9	2.2	0.0
82.5°	109.2	29.0	17.8	11.1	6.7	6.7	2.2	0.0	0.0	0.0	0.0
85°	31.2	13.4	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.4	2.2	0.0	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)