

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: P943649

Luminaire Tested: **GALN-SB8B-722-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8B-722-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37177 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 292.8
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



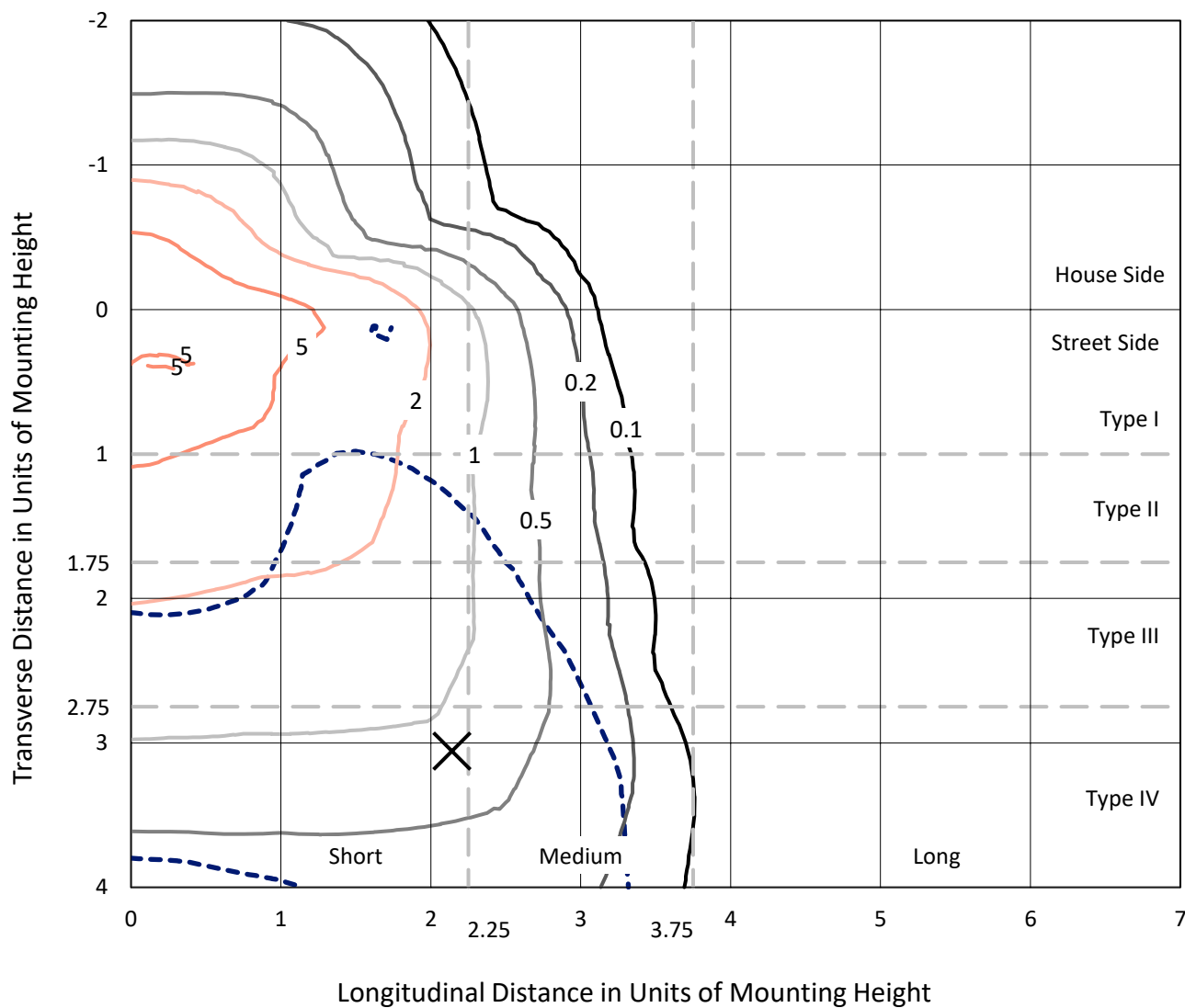
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Iso-Footcandle Lines of Horizontal Illumination

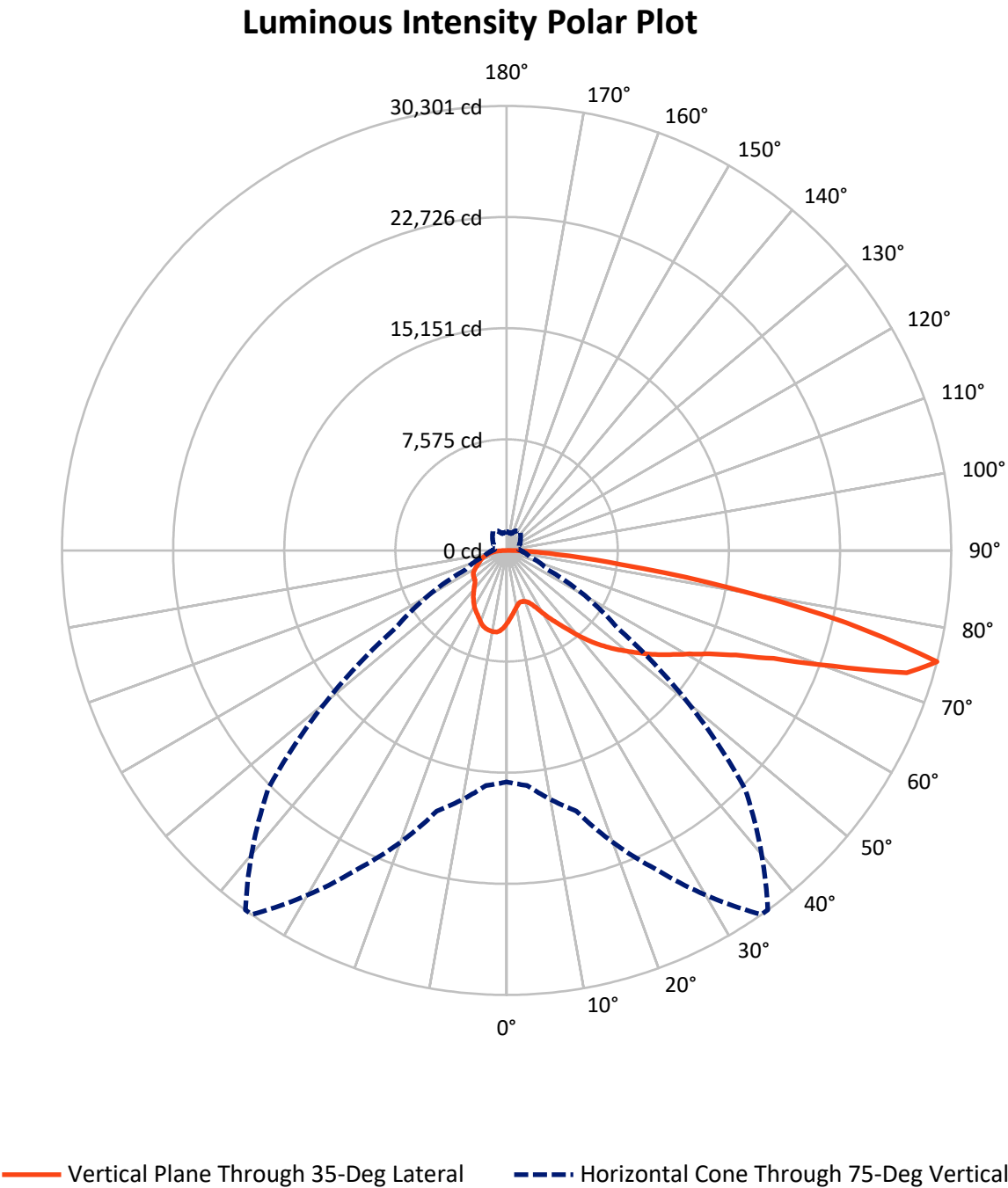
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
Type IV - Short - N/A

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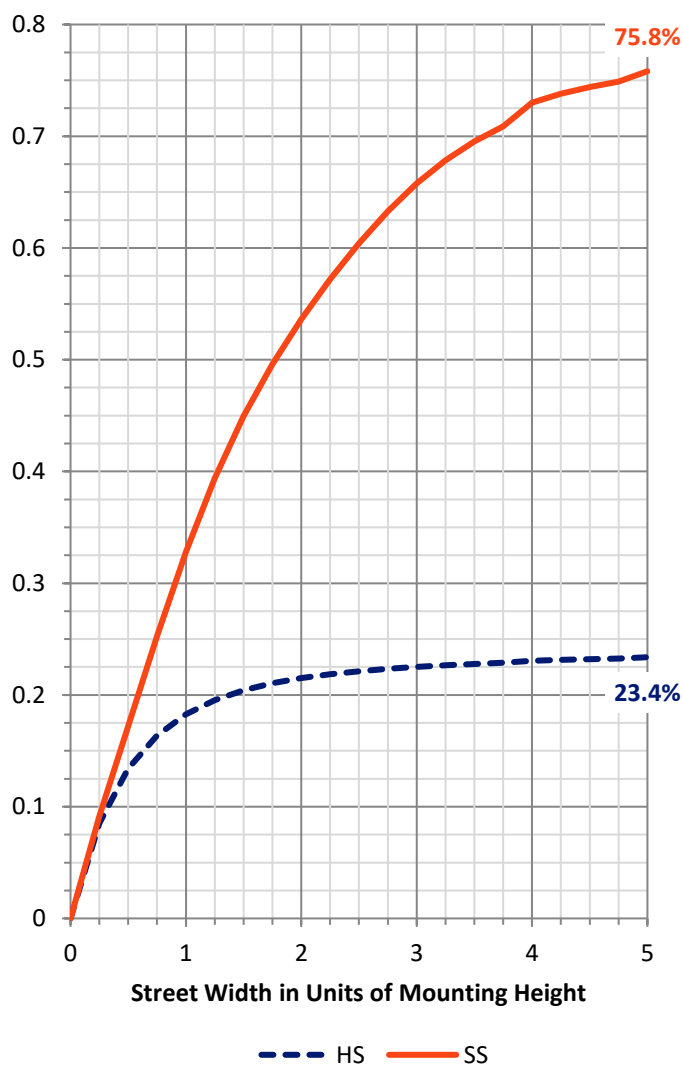
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8847.2	0.0	8847.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	28329.8	0.0	28329.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	37177.0	0.0	37177.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.1	1.3
10°-20°	1353.0	3.6
20°-30°	2272.0	6.1
30°-40°	3530.9	9.5
40°-50°	5240.9	14.1
50°-60°	7235.3	19.5
60°-70°	8778.1	23.6
70°-80°	7254.4	19.5
80°-90°	1043.4	2.8
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°	37177.0	100.0
0°-180°	37177.0	100.0

Coefficient of Utilization



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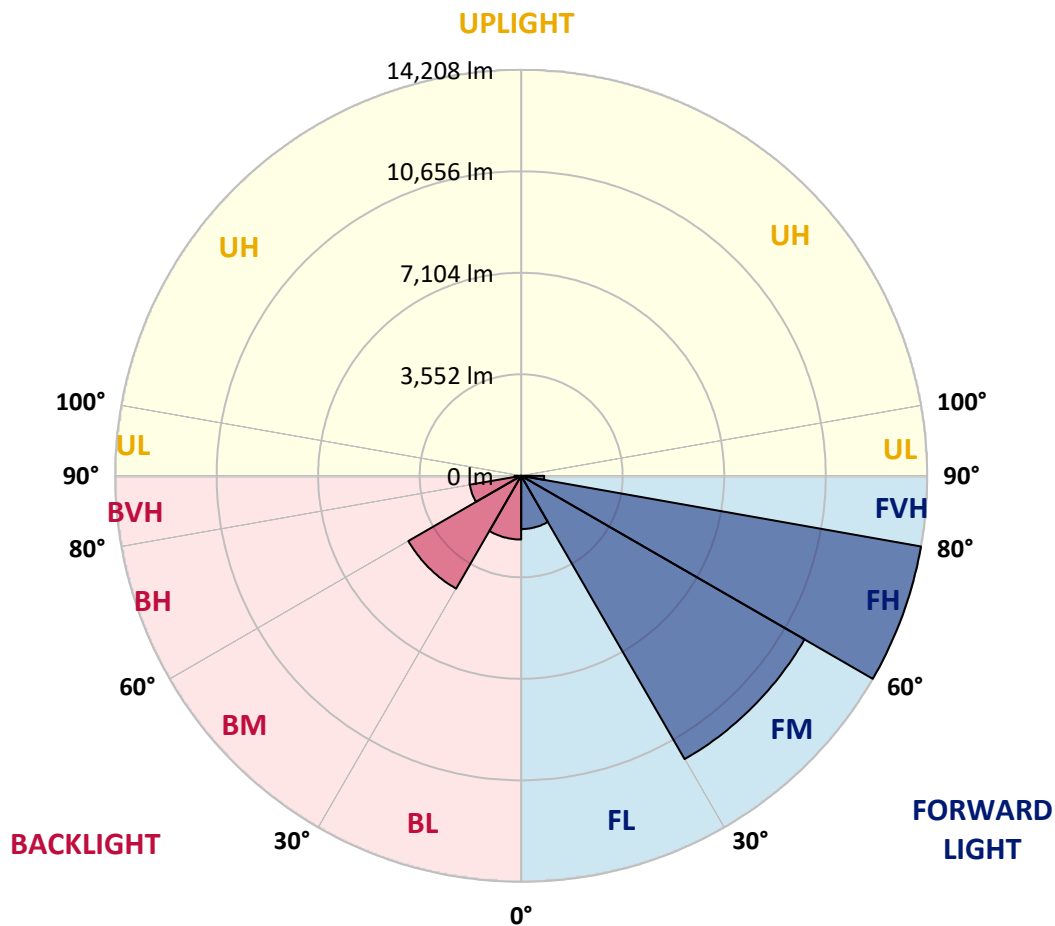
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1864.4	5.0			
FM	(30°-60°)	11448.5	30.8			
FH	(60°-80°)	14208.5	38.2			G5
FVH	(80°-90°)	808.5	2.2			G5
BL	(0°-30°)	2229.6	6.0	B3/2500		
BM	(30°-60°)	4558.6	12.3	B3/5000		
BH	(60°-80°)	1824.0	4.9	B3/2500		G3/2500
BVH	(80°-90°)	235.0	0.6			G3/500
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4954.1	4954.1	4954.1	4954.1	4954.1	4954.1	4954.1	4954.1	4954.1	4954.1	4954.1
2.5°	4568.2	4596.3	4608.4	4602.4	4632.5	4628.5	4670.7	4723.0	4795.3	4865.7	4968.2
5°	4216.5	4246.6	4272.8	4296.9	4355.2	4373.3	4439.6	4540.1	4672.7	4807.4	4976.2
7.5°	3888.9	3915.0	3955.2	3999.4	4097.9	4116.0	4226.5	4383.3	4568.2	4765.2	4998.3
10°	3621.6	3647.7	3689.9	3740.2	3862.8	3884.9	4025.6	4234.6	4475.8	4725.0	5022.4
12.5°	3507.1	3515.1	3539.2	3589.5	3696.0	3710.0	3864.8	4104.0	4385.3	4694.8	5058.6
15°	3501.0	3517.1	3519.1	3545.2	3633.7	3639.7	3782.4	4019.5	4329.0	4688.8	5112.9
17.5°	3561.3	3573.4	3555.3	3571.4	3645.7	3655.8	3768.3	3979.3	4311.0	4714.9	5205.3
20°	3722.1	3732.1	3677.9	3655.8	3710.0	3718.1	3828.6	4005.5	4329.0	4769.2	5331.9
22.5°	4063.8	4069.8	3937.1	3846.7	3850.7	3854.7	3951.2	4112.0	4399.4	4867.7	5492.7
25°	4596.3	4592.3	4381.3	4206.5	4106.0	4083.9	4148.2	4284.8	4518.0	4998.3	5699.7
27.5°	5219.4	5189.2	4978.2	4716.9	4497.9	4465.7	4451.6	4509.9	4686.8	5171.1	5952.9
30°	5922.8	5894.7	5667.6	5325.9	5022.4	4970.2	4837.5	4807.4	4938.0	5406.3	6304.7
32.5°	6694.5	6676.5	6405.1	5991.1	5585.2	5524.9	5301.8	5221.4	5323.9	5762.0	6795.0
35°	7341.7	7325.6	7100.5	6674.5	6178.0	6103.7	5876.6	5786.1	5838.4	6218.2	7436.2
37.5°	7926.5	7918.5	7725.6	7389.9	6877.4	6787.0	6531.8	6501.6	6491.6	6819.2	8213.9
40°	8469.2	8449.1	8248.1	8071.2	7691.4	7609.0	7383.9	7357.8	7281.4	7558.8	9094.2
42.5°	9070.1	9017.8	8726.4	8644.0	8541.5	8473.2	8338.5	8342.6	8173.7	8392.8	10026.7
45°	9560.5	9530.3	9230.9	9182.6	9293.2	9265.0	9381.6	9411.8	9084.2	9267.1	10995.5
47.5°	10087.0	10058.9	9805.7	9771.5	10071.0	10079.0	10491.0	10501.1	9972.5	10175.5	11966.2
50°	10736.2	10696.0	10444.8	10487.0	10822.6	10852.8	11606.4	11538.1	10790.5	11098.0	12928.9
52.5°	11164.3	11188.4	11134.1	11202.5	11660.7	11688.8	12703.8	12528.9	11600.4	12008.4	13873.5
55°	11479.8	11528.0	11696.9	11853.6	12545.0	12573.1	13738.8	13471.5	12271.7	12852.5	14761.8
57.5°	11885.8	11817.5	12133.0	12438.5	13385.1	13459.4	14745.7	14379.9	12866.6	13580.0	15370.7
60°	12468.6	12420.4	12665.6	13117.8	14325.7	14444.2	15810.9	15197.9	13302.7	14156.8	15489.3
62.5°	13650.4	13529.8	13568.0	13967.9	15511.4	15668.2	17012.7	15911.4	13519.7	14381.9	14854.2
65°	15417.0	15210.0	15017.0	15294.4	17181.5	17336.3	18369.3	16472.1	13439.3	13945.8	13168.0
67.5°	17641.8	17436.8	17199.6	17460.9	19641.5	19764.1	20043.5	16787.6	12806.3	12265.6	10187.5
70°	19476.7	19400.3	19683.7	20758.9	23570.6	23574.6	22189.9	16526.4	11071.8	8696.3	5894.7
72.5°	19233.5	19187.3	20680.5	24004.7	28522.7	28416.2	24221.8	14548.7	7458.3	3923.1	2208.7
75°	15778.7	16078.2	18391.4	23946.4	30301.3	30287.3	22977.7	9249.0	3085.0	1625.9	1141.6
77.5°	8461.1	8935.4	11940.1	17680.0	23655.0	24010.7	16154.5	3235.7	1324.4	1041.1	789.8
80°	2759.4	3173.4	4759.1	9001.8	15370.7	15304.4	6923.7	1270.2	906.4	737.6	546.7
82.5°	1171.7	1219.9	2126.3	4250.7	7888.4	7765.8	2204.7	729.5	637.1	504.5	337.6
85°	458.2	512.5	938.6	1965.6	3416.6	3342.2	795.9	361.8	408.0	329.6	201.0
87.5°	150.7	182.9	335.6	673.3	1063.2	1025.0	194.9	124.6	176.9	150.7	72.4
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°	4954.1	4954.1	4954.1	4954.1	4954.1	4954.1	4954.1	4954.1	4954.1	4954.1	4954.1
2.5°	4996.3	5028.4	5066.6	5122.9	5171.1	5211.3	5253.5	5279.7	5289.7	5319.9	5317.9
5°	5032.5	5102.8	5197.3	5289.7	5380.2	5434.4	5482.7	5506.8	5528.9	5545.0	5549.0
7.5°	5092.8	5183.2	5331.9	5452.5	5528.9	5573.1	5605.3	5597.2	5605.3	5609.3	5615.3
10°	5145.0	5271.6	5448.5	5563.0	5621.3	5623.3	5615.3	5587.2	5573.1	5575.1	5579.1
12.5°	5207.3	5348.0	5538.9	5635.4	5651.5	5607.3	5573.1	5524.9	5506.8	5498.7	5494.7
15°	5291.7	5452.5	5637.4	5673.6	5633.4	5577.1	5518.8	5440.5	5400.3	5368.1	5378.1
17.5°	5394.2	5571.1	5713.8	5687.7	5601.2	5508.8	5414.3	5295.7	5213.3	5179.2	5181.2
20°	5536.9	5695.7	5772.1	5657.5	5526.9	5386.2	5225.4	5080.7	5004.3	4970.2	4966.1
22.5°	5709.8	5862.5	5828.3	5605.3	5420.4	5195.3	4994.3	4887.8	4849.6	4825.5	4829.5
25°	5916.8	6047.4	5868.5	5528.9	5245.5	4942.0	4787.3	4753.1	4735.0	4716.9	4716.9
27.5°	6186.1	6256.4	5898.7	5416.3	4972.2	4672.7	4616.4	4622.5	4616.4	4586.3	4592.3
30°	6541.8	6527.7	5926.8	5233.4	4658.7	4429.5	4433.6	4459.7	4463.7	4443.6	4453.7
32.5°	7010.1	6867.4	5940.9	4996.3	4359.2	4216.5	4220.5	4248.7	4268.8	4234.6	4250.7
35°	7576.8	7263.3	5918.8	4698.8	4128.1	4013.5	3983.4	3991.4	3997.4	3965.3	3987.4
37.5°	8238.1	7707.5	5820.3	4369.2	3937.1	3814.5	3750.2	3696.0	3663.8	3633.7	3653.8
40°	8963.6	8191.8	5639.4	4047.7	3724.1	3603.5	3507.1	3404.6	3296.0	3255.8	3273.9
42.5°	9723.3	8690.3	5420.4	3740.2	3478.9	3380.4	3277.9	3129.2	2966.4	2884.0	2894.1
45°	10511.1	9200.7	5205.3	3436.7	3227.7	3185.5	3066.9	2888.0	2711.2	2606.7	2598.6
47.5°	11282.9	9683.1	4889.8	3131.2	2992.5	3038.8	2946.3	2781.5	2584.6	2419.8	2401.7
50°	12020.4	10135.3	4373.3	2821.7	2801.6	2994.6	2906.1	2669.0	2443.9	2232.9	2214.8
52.5°	12752.0	10501.1	3712.0	2540.4	2699.1	2982.5	2853.9	2592.6	2317.3	2096.2	2072.1
55°	13373.0	10690.0	3075.0	2299.2	2550.4	2880.0	2791.6	2502.2	2138.4	1903.3	1883.2
57.5°	13726.7	10537.2	2544.4	2062.0	2345.4	2711.2	2685.1	2309.2	1925.4	1744.5	1720.4
60°	13574.0	9918.2	2110.3	1855.0	2150.5	2528.3	2500.2	2118.3	1762.6	1591.7	1567.6
62.5°	12731.9	8738.5	1766.6	1674.1	1973.6	2341.4	2315.3	1971.6	1638.0	1473.2	1447.0
65°	11035.7	7108.6	1499.3	1523.4	1794.7	2116.3	2154.5	1849.0	1539.5	1378.7	1352.6
67.5°	8416.9	5149.0	1290.3	1392.8	1619.9	1895.2	2005.8	1760.6	1457.1	1304.3	1280.2
70°	4797.3	2924.2	1113.4	1266.2	1465.1	1690.2	1891.2	1690.2	1368.7	1242.0	1226.0
72.5°	1818.8	1342.5	962.7	1139.5	1316.4	1517.4	1764.6	1579.7	1266.2	1171.7	1155.6
75°	970.7	818.0	809.9	990.8	1145.6	1348.6	1605.8	1471.2	1189.8	1238.0	1278.2
77.5°	661.2	578.8	677.3	848.1	958.7	1161.6	1437.0	1306.4	1031.0	1027.0	946.6
80°	458.2	410.0	550.7	683.3	741.6	976.7	1254.1	1121.5	840.1	783.8	749.6
82.5°	275.3	267.3	412.0	510.5	524.6	753.7	1039.1	940.6	687.3	598.9	602.9
85°	150.7	158.8	263.3	299.5	305.5	526.6	814.0	727.5	528.6	444.2	448.2
87.5°	42.2	54.3	96.5	118.6	146.7	273.3	484.4	432.1	265.3	184.9	184.9
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)