

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: P956312

Luminaire Tested: **GALN-SB9A-730-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-730-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41405 lumens
Efficiency: N/A
Efficacy: 162.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 255.5
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

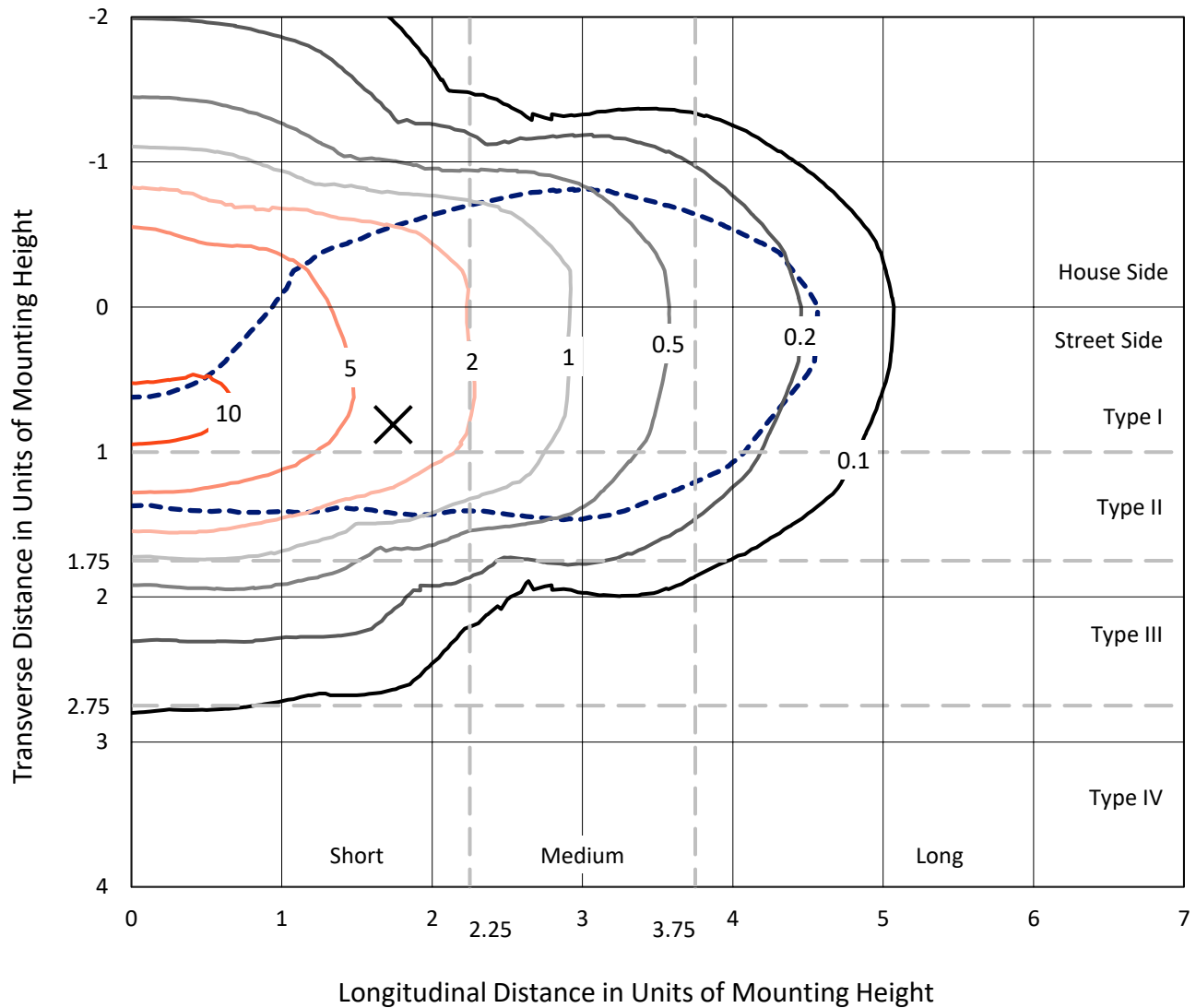


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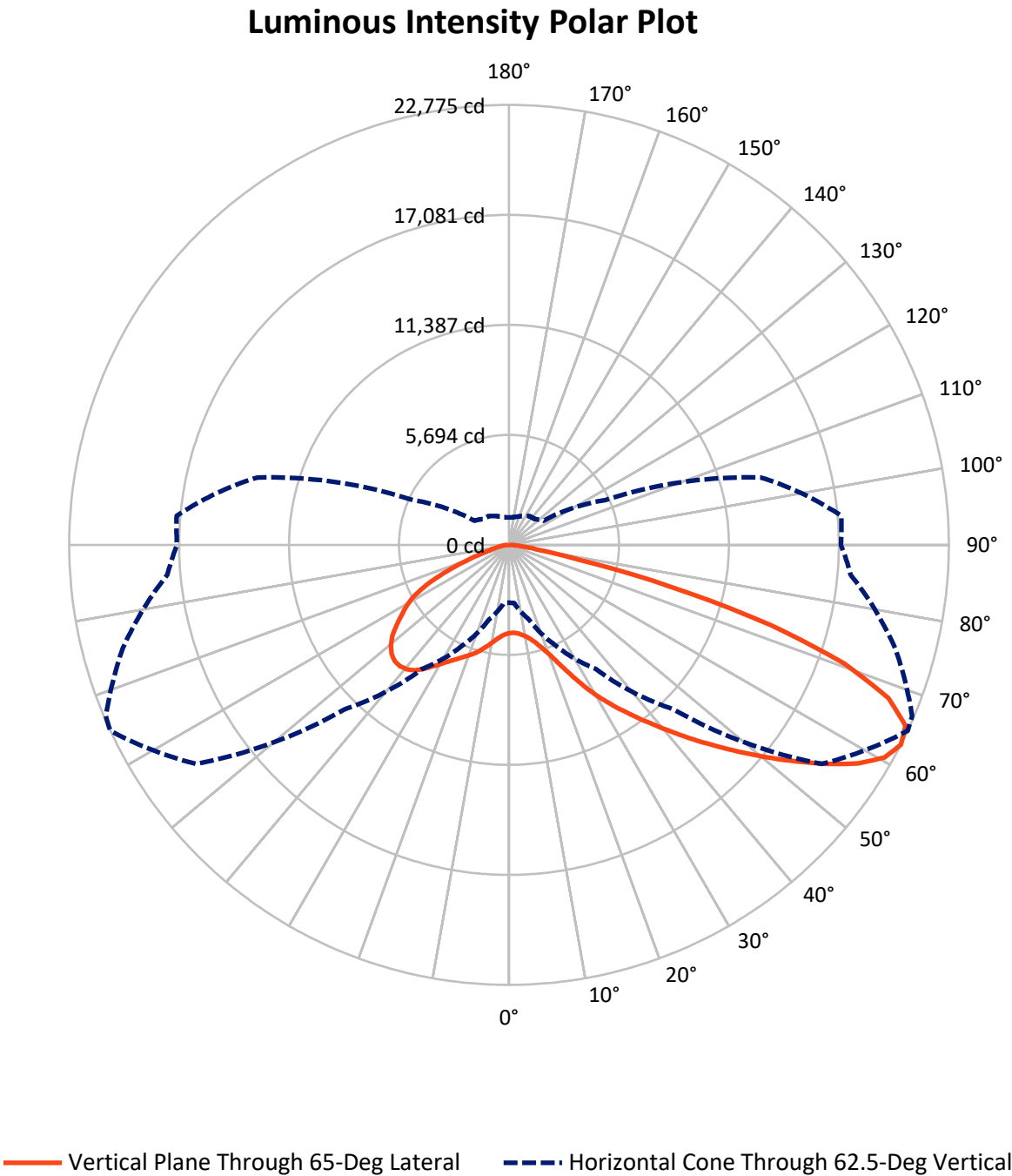
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
Type II - Short - N/A

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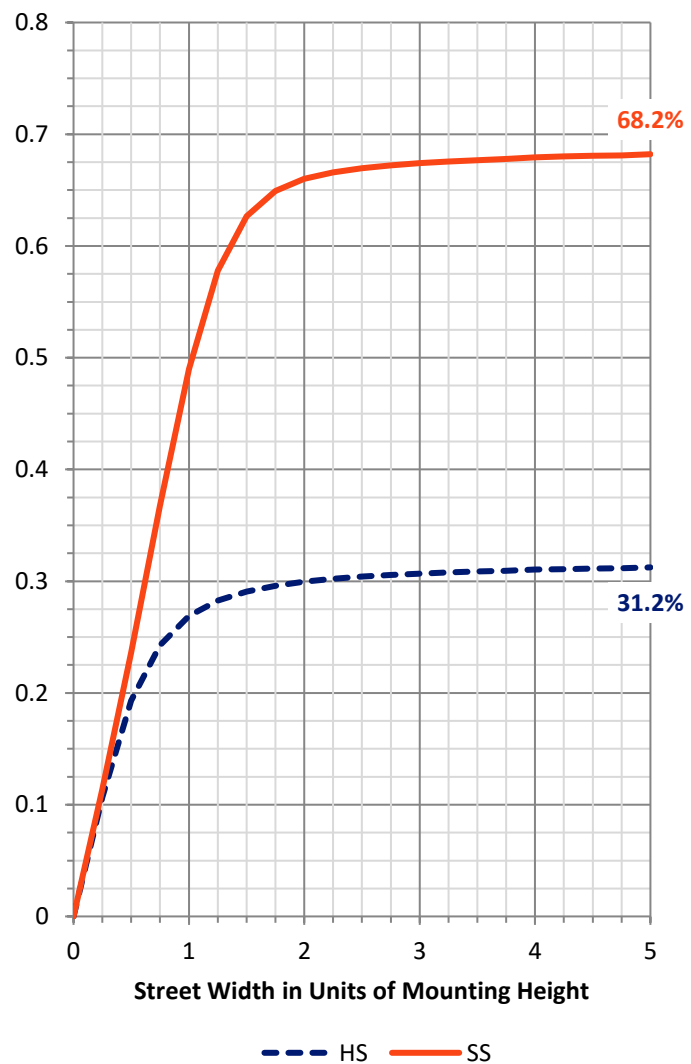
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13065.6	0.0	13065.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	28339.4	0.0	28339.4
	% Fixture	68.4	0.0	68.4
Total	Lumens	41405.0	0.0	41405.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.9	1.1
10°-20°	1542.6	3.7
20°-30°	3127.7	7.6
30°-40°	5412.5	13.1
40°-50°	8190.8	19.8
50°-60°	9603.2	23.2
60°-70°	8051.1	19.4
70°-80°	4444.9	10.7
80°-90°	577.4	1.4
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°	41405.0	100.0
0°-180°	41405.0	100.0

Coefficient of Utilization



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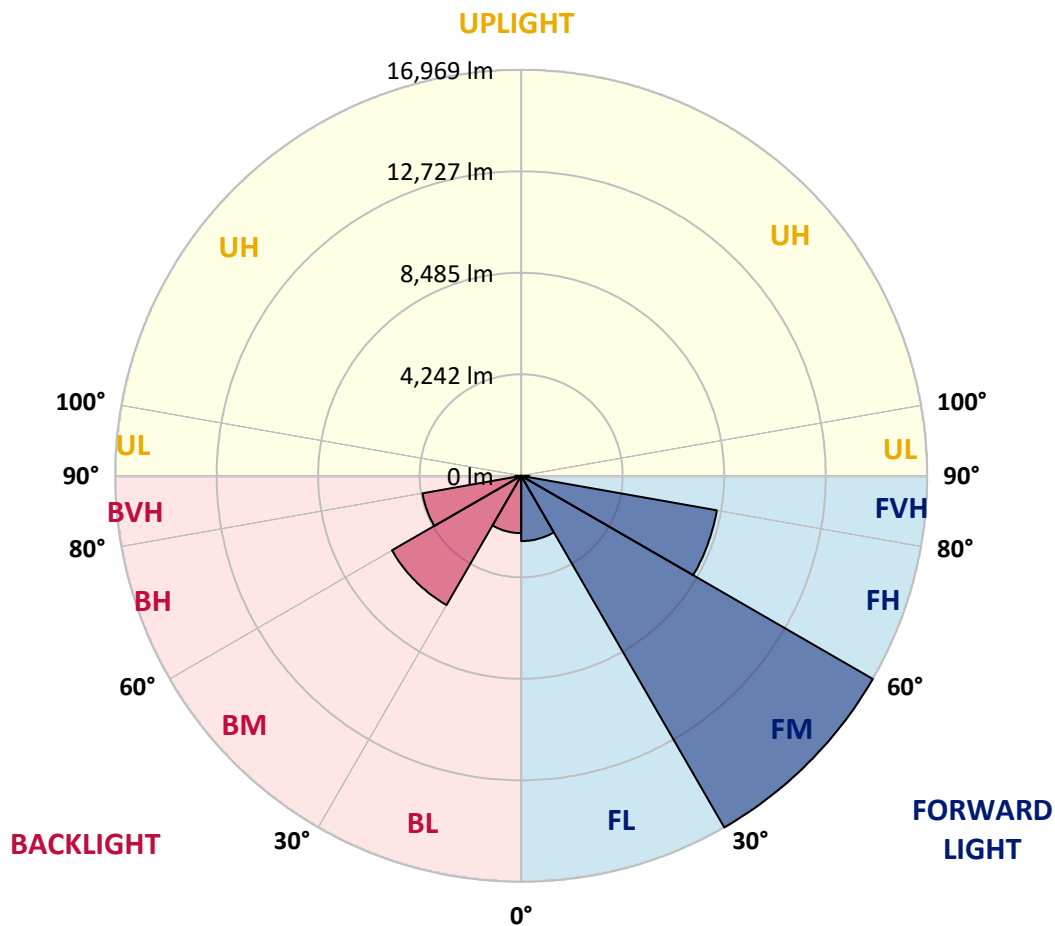
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2729.1	6.6			
FM	(30°-60°)	16969.1	41.0			
FH	(60°-80°)	8304.6	20.1			G4/12000
FVH	(80°-90°)	336.5	0.8			G3/500
BL	(0°-30°)	2396.1	5.8	B3/2500		
BM	(30°-60°)	6237.3	15.1	B4/8500		
BH	(60°-80°)	4191.3	10.1	B4/5000		G4/5000
BVH	(80°-90°)	240.9	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4562.7	4562.7	4562.7	4562.7	4562.7	4562.7	4562.7	4562.7	4562.7	4562.7	4562.7
2.5°	4532.6	4519.7	4530.4	4530.4	4534.7	4532.6	4547.6	4551.9	4558.4	4571.2	4571.2
5°	4487.5	4485.3	4504.7	4521.8	4539.0	4554.1	4573.4	4601.3	4605.6	4620.7	4640.0
7.5°	4472.4	4459.5	4489.6	4511.1	4551.9	4588.4	4640.0	4687.2	4706.6	4713.0	4749.5
10°	4588.4	4566.9	4594.9	4607.8	4642.1	4678.7	4738.8	4814.0	4835.5	4861.2	4902.1
12.5°	4786.1	4762.4	4803.2	4822.6	4854.8	4887.0	4927.8	5000.9	5011.6	5058.9	5097.5
15°	5056.7	5028.8	5054.6	5078.2	5131.9	5162.0	5202.8	5273.7	5273.7	5310.2	5338.1
17.5°	5424.1	5387.5	5406.9	5415.5	5449.8	5494.9	5563.7	5626.0	5658.2	5645.3	5606.6
20°	5971.8	5926.7	5926.7	5883.8	5870.9	5907.4	5997.6	6083.5	6117.9	6051.3	5956.8
22.5°	6794.6	6730.1	6693.6	6547.5	6489.5	6493.8	6584.1	6689.3	6717.2	6599.1	6386.4
25°	7840.7	7739.8	7690.3	7475.5	7344.5	7230.6	7301.5	7436.9	7475.5	7329.5	6985.8
27.5°	8886.9	8893.3	8846.0	8588.3	8371.3	8162.9	8126.4	8268.2	8309.0	8143.6	7718.3
30°	10354.0	10201.5	10111.3	9802.0	9492.6	9200.5	9050.1	9108.1	9118.9	8921.2	8427.2
32.5°	11619.3	11580.6	11387.3	11116.6	10719.2	10261.7	10010.3	9918.0	9900.8	9619.4	9032.9
35°	13060.7	13039.2	12835.1	12512.9	12083.3	11447.4	10994.2	10730.0	10708.5	10313.2	9632.3
37.5°	14525.7	14525.7	14326.0	13973.7	13529.0	12734.2	12044.6	11625.7	11557.0	11041.4	10242.3
40°	15694.3	15623.4	15659.9	15511.7	15002.6	14158.4	13211.1	12603.1	12510.8	11892.1	10891.1
42.5°	16358.1	16334.5	16553.6	16719.0	16510.6	15836.1	14495.7	13662.2	13533.3	12828.7	11638.6
45°	16506.3	16480.5	16871.5	17477.3	17769.4	17492.3	15891.9	14777.1	14620.2	13808.3	12439.9
47.5°	16164.8	16113.2	16686.8	17642.7	18579.3	19066.9	17404.2	15986.5	15758.8	14762.0	13262.6
50°	15137.9	15088.5	15956.4	17225.9	18852.1	20136.7	19045.4	17268.9	16920.9	15784.5	14094.0
52.5°	12906.0	12929.7	14289.4	16033.7	18493.3	20802.6	20458.9	18620.1	18201.2	16830.7	14873.7
55°	10053.3	10104.9	11776.1	13696.5	17058.4	20701.6	21423.4	20012.1	19595.3	17814.5	15679.3
57.5°	7198.4	7426.1	8992.1	10893.2	14302.3	19101.3	21633.9	21335.3	20931.5	18888.6	16467.6
60°	4665.8	4706.6	6317.7	8233.8	10891.1	16257.1	21206.4	22338.5	22022.7	19984.2	17127.1
62.5°	2990.2	3018.1	3999.8	5759.2	7838.6	12027.4	19767.2	22774.6	22677.9	20708.1	17760.8
65°	2197.5	2176.1	2687.3	3806.5	5280.1	7417.5	16972.5	22564.1	22755.3	21161.3	18285.0
67.5°	1834.5	1804.4	2055.8	2635.8	3890.3	4212.5	12558.0	21195.7	21896.0	21109.8	18669.5
70°	1671.3	1645.5	1798.0	1957.0	3035.3	2820.5	6330.6	18426.8	19505.1	20523.3	18607.2
72.5°	1415.6	1370.5	1578.9	1737.8	2360.8	2163.2	2616.4	14154.1	15468.8	18643.7	17730.8
75°	1097.7	1067.6	1245.9	1529.5	1774.4	1688.4	1654.1	8594.7	10029.7	14418.3	15511.7
77.5°	870.0	829.2	992.4	1192.2	1596.1	1273.8	1205.1	3701.2	5123.3	9204.8	11606.4
80°	655.2	618.7	754.0	943.0	1226.6	960.2	779.8	1510.1	1931.2	4663.6	5836.5
82.5°	466.1	433.9	526.3	691.7	824.9	861.4	479.0	846.4	951.6	1798.0	1303.9
85°	298.6	279.3	352.3	433.9	524.1	554.2	292.1	442.5	485.5	741.1	543.5
87.5°	163.3	133.2	189.0	201.9	242.7	221.3	139.6	161.1	174.0	268.5	229.9
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°	4562.7	4562.7	4562.7	4562.7	4562.7	4562.7	4562.7	4562.7	4562.7	4562.7	4562.7
2.5°	4579.8	4586.3	4607.8	4614.2	4629.2	4648.6	4661.5	4674.4	4674.4	4687.2	4687.2
5°	4642.1	4657.2	4702.3	4725.9	4764.6	4803.2	4826.9	4854.8	4872.0	4880.6	4884.9
7.5°	4762.4	4786.1	4850.5	4891.3	4957.9	5011.6	5048.1	5086.8	5095.4	5119.0	5110.4
10°	4925.7	4953.6	5026.6	5104.0	5183.5	5250.1	5284.4	5312.4	5323.1	5327.4	5316.6
12.5°	5112.6	5153.4	5247.9	5342.4	5426.2	5484.2	5492.8	5486.4	5456.3	5430.5	5430.5
15°	5342.4	5378.9	5484.2	5587.3	5668.9	5679.7	5626.0	5591.6	5555.1	5548.6	5548.6
17.5°	5617.4	5636.7	5733.4	5834.4	5840.8	5804.3	5724.8	5692.6	5658.2	5634.6	5636.7
20°	5937.5	5931.0	5999.8	6042.7	5997.6	5885.9	5765.6	5711.9	5677.5	5649.6	5651.8
22.5°	6319.8	6270.4	6261.8	6251.1	6130.8	5896.6	5733.4	5664.6	5610.9	5572.3	5585.2
25°	6876.2	6687.2	6556.1	6483.1	6212.4	5838.6	5630.3	5477.8	5376.8	5310.2	5336.0
27.5°	7572.2	7254.3	6923.5	6745.2	6212.4	5720.5	5381.1	5134.1	4968.7	4899.9	4934.3
30°	8236.0	7903.0	7415.4	7060.9	6197.4	5527.2	4979.4	4635.7	4442.4	4373.6	4414.4
32.5°	8803.1	8440.0	7937.4	7406.8	6160.9	5213.5	4481.0	4100.8	3913.9	3832.3	3873.1
35°	9329.4	8942.7	8461.5	7787.0	6064.2	4753.8	3933.2	3643.2	3434.9	3303.8	3346.8
37.5°	9868.6	9408.9	8957.7	8130.7	5890.2	4216.8	3512.2	3265.2	3020.3	2844.1	2891.4
40°	10455.0	9905.1	9488.3	8334.8	5604.5	3705.5	3185.7	2960.1	2700.2	2513.3	2549.8
42.5°	11140.3	10500.1	10079.1	8440.0	5213.5	3342.5	2973.0	2751.8	2506.9	2354.4	2384.4
45°	11855.6	11155.3	10618.3	8437.9	4777.5	3172.8	2904.3	2685.2	2414.5	2255.5	2281.3
47.5°	12605.3	11840.6	11084.4	8300.4	4399.4	3196.4	2865.6	2541.3	2242.7	2088.0	2109.5
50°	13357.1	12590.3	11535.5	8042.6	4238.3	3144.9	2721.7	2339.3	1987.0	1847.4	1856.0
52.5°	14102.5	13387.2	11924.3	7675.3	4075.0	2953.7	2537.0	2077.3	1881.8	1785.1	1785.1
55°	14852.2	14175.6	12347.5	7140.4	3666.9	2730.3	2227.6	1978.4	1798.0	1709.9	1701.3
57.5°	15604.1	15086.4	12749.2	6605.5	3153.5	2455.3	2057.9	1858.1	1714.2	1639.0	1626.1
60°	16386.0	16128.2	13163.8	6113.6	2646.5	2103.0	1933.3	1761.5	1615.4	1531.6	1525.2
62.5°	17191.6	17275.3	13488.2	5479.9	2180.4	1888.2	1821.6	1645.5	1503.7	1424.2	1422.1
65°	18003.6	18381.6	13700.8	4601.3	1767.9	1684.1	1701.3	1518.7	1374.8	1306.1	1303.9
67.5°	18615.8	19178.6	13640.7	3482.1	1450.0	1490.8	1551.0	1385.6	1250.2	1196.5	1198.7
70°	18684.5	19084.1	13047.8	2384.4	1213.7	1301.8	1383.4	1254.5	1114.9	1076.2	1078.4
72.5°	17769.4	17795.2	11395.9	1557.4	1026.8	1142.8	1207.3	1121.3	986.0	947.3	945.2
75°	15369.9	14716.9	8367.0	1026.8	859.3	981.7	1041.8	981.7	850.7	859.3	829.2
77.5°	11645.1	10422.8	5080.4	730.4	717.5	824.9	906.5	863.6	751.8	844.2	743.3
80°	5999.8	5638.9	2266.3	545.6	567.1	659.5	745.4	689.6	595.0	567.1	517.7
82.5°	1374.8	1598.2	893.6	391.0	410.3	474.7	569.3	517.7	427.5	360.9	356.6
85°	481.2	526.3	395.3	244.9	240.6	296.4	386.7	345.9	290.0	232.0	244.9
87.5°	152.5	199.8	148.2	98.8	103.1	133.2	178.3	163.3	135.3	88.1	92.4
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)