

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: P941959

Luminaire Tested: **GALN-SB5D-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941959
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-SB5D-727-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47124 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 364.9
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



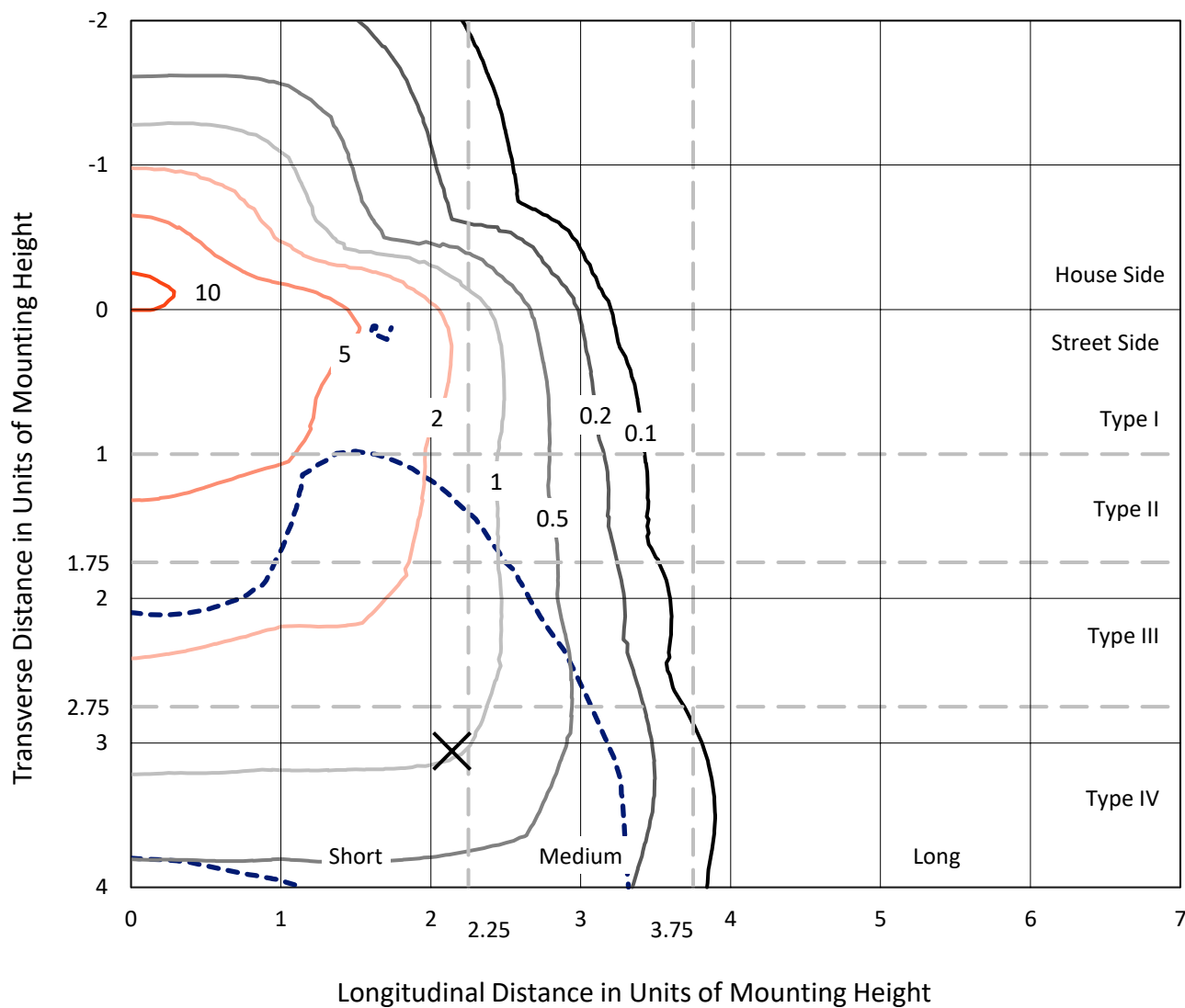
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

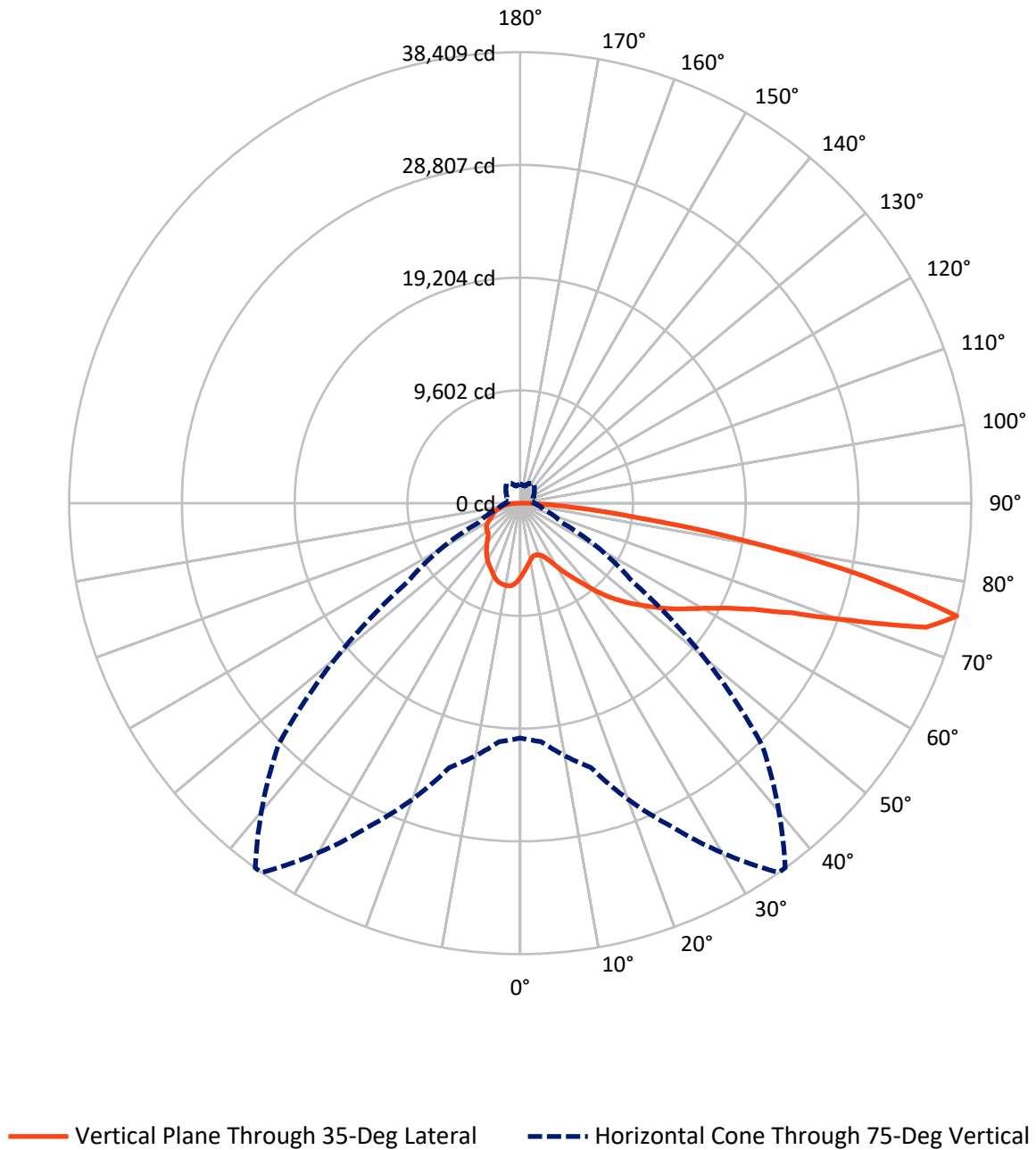


Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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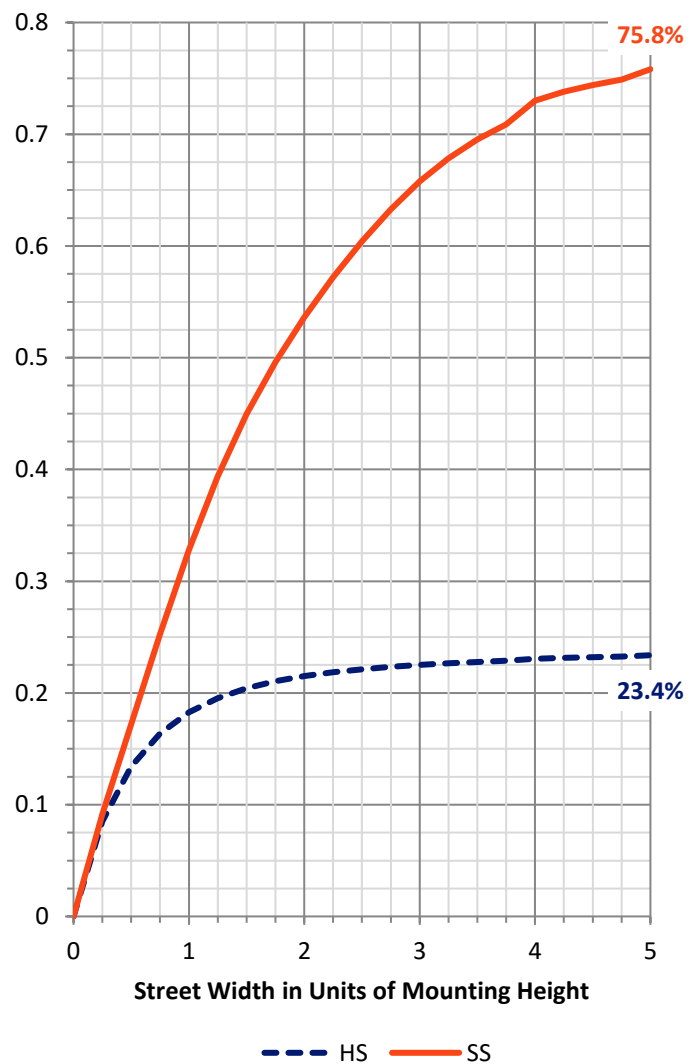
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11214.3	0.0	11214.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	35909.7	0.0	35909.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	47124.0	0.0	47124.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.5	1.3
10°-20°	1714.9	3.6
20°-30°	2879.8	6.1
30°-40°	4475.7	9.5
40°-50°	6643.1	14.1
50°-60°	9171.2	19.5
60°-70°	11126.7	23.6
70°-80°	9195.4	19.5
80°-90°	1322.6	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°	47124.0	100.0
0°-180°	47124.0	100.0

Coefficient of Utilization



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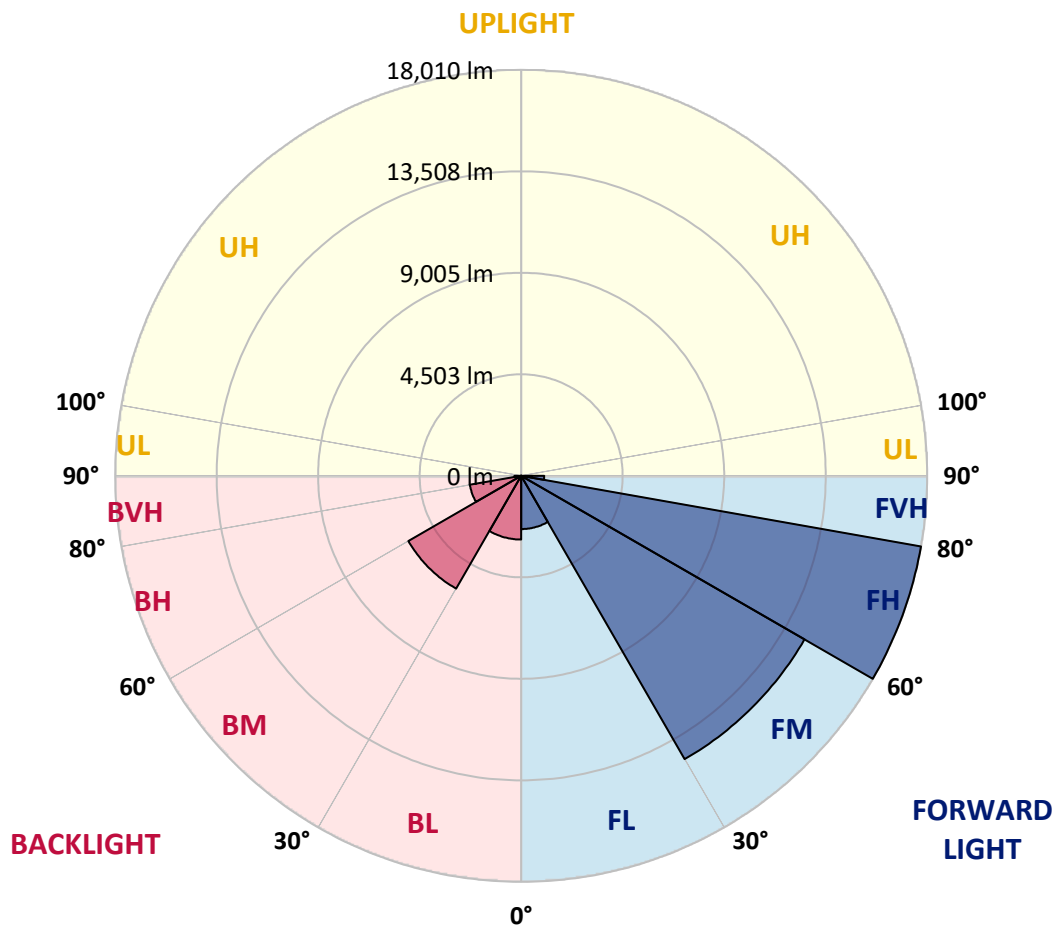
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2363.2	5.0			
FM	(30°-60°)	14511.6	30.8			
FH	(60°-80°)	18010.1	38.2			G5
FVH	(80°-90°)	1024.8	2.2			G5
BL	(0°-30°)	2826.2	6.0	B4/5000		
BM	(30°-60°)	5778.3	12.3	B4/8500		
BH	(60°-80°)	2312.0	4.9	B3/2500		G3/2500
BVH	(80°-90°)	297.8	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	6279.6	6279.6	6279.6	6279.6	6279.6	6279.6	6279.6	6279.6	6279.6	6279.6	6279.6
2.5°	5790.5	5826.1	5841.4	5833.8	5872.0	5866.9	5920.4	5986.6	6078.3	6167.5	6297.4
5°	5344.7	5382.9	5416.0	5446.6	5520.4	5543.4	5627.4	5754.8	5922.9	6093.6	6307.6
7.5°	4929.4	4962.5	5013.5	5069.5	5194.4	5217.3	5357.4	5556.1	5790.5	6040.1	6335.6
10°	4590.6	4623.7	4677.2	4740.9	4896.3	4924.3	5102.6	5367.6	5673.3	5989.2	6366.2
12.5°	4445.4	4455.6	4486.2	4549.8	4684.9	4702.7	4898.8	5202.0	5558.6	5951.0	6412.1
15°	4437.7	4458.1	4460.7	4493.8	4605.9	4613.5	4794.4	5095.0	5487.3	5943.3	6480.8
17.5°	4514.2	4529.5	4506.5	4526.9	4621.2	4633.9	4776.6	5044.1	5464.4	5976.4	6598.0
20°	4718.0	4730.7	4661.9	4633.9	4702.7	4712.9	4853.0	5077.2	5487.3	6045.2	6758.5
22.5°	5151.0	5158.7	4990.6	4875.9	4881.0	4886.1	5008.4	5212.2	5576.5	6170.0	6962.3
25°	5826.1	5821.0	5553.6	5331.9	5204.5	5176.5	5258.0	5431.3	5726.8	6335.6	7224.7
27.5°	6615.9	6577.6	6310.2	5979.0	5701.3	5660.5	5642.7	5716.6	5940.8	6554.7	7545.7
30°	7507.5	7471.8	7184.0	6750.9	6366.2	6300.0	6131.8	6093.6	6259.2	6852.8	7991.5
32.5°	8485.7	8462.8	8118.9	7594.1	7079.5	7003.1	6720.3	6618.4	6748.3	7303.7	8613.1
35°	9306.0	9285.6	9000.3	8460.3	7831.0	7736.8	7448.9	7334.3	7400.5	7882.0	9425.8
37.5°	10047.3	10037.2	9792.6	9367.2	8717.6	8602.9	8279.4	8241.2	8228.4	8643.7	10411.6
40°	10735.2	10709.7	10454.9	10230.8	9749.3	9644.8	9359.5	9326.4	9229.6	9581.2	11527.4
42.5°	11496.9	11430.6	11061.3	10956.8	10826.9	10740.3	10569.6	10574.7	10360.7	10638.4	12709.5
45°	12118.5	12080.3	11700.7	11639.5	11779.6	11744.0	11891.7	11930.0	11514.7	11746.5	13937.4
47.5°	12785.9	12750.2	12429.3	12386.0	12765.5	12775.7	13298.0	13310.7	12640.7	12898.0	15167.8
50°	13608.8	13557.8	13239.4	13292.9	13718.3	13756.5	14711.8	14625.2	13677.5	14067.3	16388.1
52.5°	14151.4	14181.9	14113.2	14199.8	14780.6	14816.3	16102.8	15881.1	14704.2	15221.3	17585.4
55°	14551.3	14612.5	14826.5	15025.2	15901.5	15937.2	17414.7	17075.9	15555.0	16291.3	18711.4
57.5°	15065.9	14979.3	15379.3	15766.5	16966.4	17060.6	18691.0	18227.4	16309.1	17213.5	19483.3
60°	15804.7	15743.6	16054.4	16627.5	18158.6	18308.9	20041.2	19264.2	16861.9	17944.6	19633.6
62.5°	17302.6	17149.8	17198.2	17705.1	19661.6	19860.3	21564.6	20168.6	17137.0	18229.9	18828.6
65°	19541.9	19279.5	19034.9	19386.5	21778.6	21974.7	23284.2	20879.3	17035.1	17677.1	16691.2
67.5°	22362.0	22102.1	21801.5	22132.7	24896.7	25052.1	25406.2	21279.3	16232.7	15547.4	12913.3
70°	24687.8	24591.0	24950.2	26313.1	29877.1	29882.2	28127.0	20948.1	14034.2	11023.0	7471.8
72.5°	24379.6	24321.0	26213.8	30427.4	36154.1	36019.1	30702.5	18441.4	9453.8	4972.7	2799.7
75°	20000.4	20380.0	23312.2	30353.5	38408.7	38390.9	29125.6	11723.6	3910.4	2060.9	1447.0
77.5°	10725.0	11326.2	15134.7	22410.4	29984.1	30435.0	20476.8	4101.5	1678.8	1319.6	1001.2
80°	3497.7	4022.5	6032.5	11410.3	19483.3	19399.2	8776.1	1610.0	1148.9	934.9	692.9
82.5°	1485.2	1546.3	2695.3	5388.0	9998.9	9843.5	2794.6	924.7	807.6	639.4	428.0
85°	580.8	649.6	1189.7	2491.5	4330.8	4236.5	1008.8	458.6	517.1	417.8	254.8
87.5°	191.1	231.8	425.4	853.4	1347.6	1299.2	247.1	157.9	224.2	191.1	91.7
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°	6279.6	6279.6	6279.6	6279.6	6279.6	6279.6	6279.6	6279.6	6279.6	6279.6	6279.6
2.5°	6333.1	6373.8	6422.3	6493.6	6554.7	6605.7	6659.2	6692.3	6705.0	6743.2	6740.7
5°	6378.9	6468.1	6587.8	6705.0	6819.7	6888.4	6949.6	6980.2	7008.2	7028.6	7033.7
7.5°	6455.4	6570.0	6758.5	6911.4	7008.2	7064.2	7105.0	7094.8	7105.0	7110.1	7117.7
10°	6521.6	6682.1	6906.3	7051.5	7125.4	7127.9	7117.7	7082.1	7064.2	7066.8	7071.9
12.5°	6600.6	6778.9	7020.9	7143.2	7163.6	7107.5	7064.2	7003.1	6980.2	6970.0	6964.9
15°	6707.6	6911.4	7145.7	7191.6	7140.6	7069.3	6995.4	6896.1	6845.1	6804.4	6817.1
17.5°	6837.5	7061.7	7242.5	7209.4	7099.9	6982.7	6863.0	6712.7	6608.2	6564.9	6567.5
20°	7018.4	7219.6	7316.4	7171.2	7005.6	6827.3	6623.5	6440.1	6343.3	6300.0	6294.9
22.5°	7237.5	7431.1	7387.8	7105.0	6870.6	6585.3	6330.5	6195.5	6147.1	6116.6	6121.6
25°	7499.8	7665.4	7438.7	7008.2	6649.0	6264.3	6068.1	6024.8	6001.9	5979.0	5979.0
27.5°	7841.2	7930.4	7476.9	6865.5	6302.5	5922.9	5851.6	5859.3	5851.6	5813.4	5821.0
30°	8292.1	8274.3	7512.6	6633.7	5905.1	5614.7	5619.8	5652.9	5658.0	5632.5	5645.3
32.5°	8885.7	8704.8	7530.4	6333.1	5525.5	5344.7	5349.8	5385.4	5410.9	5367.6	5388.0
35°	9604.1	9206.7	7502.4	5956.1	5232.6	5087.4	5049.1	5059.3	5067.0	5026.2	5054.2
37.5°	10442.2	9769.7	7377.6	5538.3	4990.6	4835.2	4753.6	4684.9	4644.1	4605.9	4631.4
40°	11361.9	10383.6	7148.3	5130.7	4720.5	4567.7	4445.4	4315.5	4177.9	4127.0	4149.9
42.5°	12324.8	11015.4	6870.6	4740.9	4409.7	4284.9	4155.0	3966.5	3760.1	3655.7	3668.4
45°	13323.4	11662.5	6598.0	4356.2	4091.3	4037.8	3887.5	3660.8	3436.6	3304.1	3293.9
47.5°	14301.7	12273.9	6198.1	3969.0	3793.2	3851.8	3734.6	3525.7	3276.1	3067.2	3044.3
50°	15236.6	12847.1	5543.4	3576.7	3551.2	3795.8	3683.7	3383.1	3097.8	2830.3	2807.3
52.5°	16163.9	13310.7	4705.2	3220.0	3421.3	3780.5	3617.5	3286.3	2937.3	2657.0	2626.5
55°	16951.1	13550.2	3897.7	2914.3	3232.8	3650.6	3538.5	3171.6	2710.5	2412.5	2387.0
57.5°	17399.4	13356.6	3225.1	2613.7	2972.9	3436.6	3403.5	2927.1	2440.5	2211.2	2180.7
60°	17205.8	12571.9	2674.9	2351.3	2725.8	3204.8	3169.1	2685.1	2234.2	2017.6	1987.1
62.5°	16138.4	11076.5	2239.3	2122.1	2501.6	2967.8	2934.7	2499.1	2076.2	1867.3	1834.2
65°	13988.3	9010.5	1900.4	1931.0	2274.9	2682.5	2730.9	2343.7	1951.4	1747.6	1714.5
67.5°	10668.9	6526.7	1635.5	1765.4	2053.3	2402.3	2542.4	2231.6	1846.9	1653.3	1622.8
70°	6080.9	3706.6	1411.3	1604.9	1857.1	2142.4	2397.2	2142.4	1734.8	1574.4	1554.0
72.5°	2305.5	1701.7	1220.3	1444.4	1668.6	1923.4	2236.7	2002.3	1604.9	1485.2	1464.8
75°	1230.4	1036.8	1026.6	1255.9	1452.1	1709.4	2035.5	1864.8	1508.1	1569.3	1620.2
77.5°	838.1	733.7	858.5	1075.0	1215.2	1472.5	1821.5	1655.9	1306.9	1301.8	1199.9
80°	580.8	519.7	698.0	866.2	940.0	1238.1	1589.6	1421.5	1064.9	993.5	950.2
82.5°	349.0	338.8	522.2	647.1	664.9	955.3	1317.1	1192.2	871.2	759.2	764.3
85°	191.1	201.3	333.7	379.6	387.2	667.4	1031.7	922.2	670.0	563.0	568.1
87.5°	53.5	68.8	122.3	150.3	186.0	346.5	613.9	547.7	336.3	234.4	234.4
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)