

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: P944339

Luminaire Tested: **GALN-SB9B-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944339
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-SB9B-727-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47020 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - 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

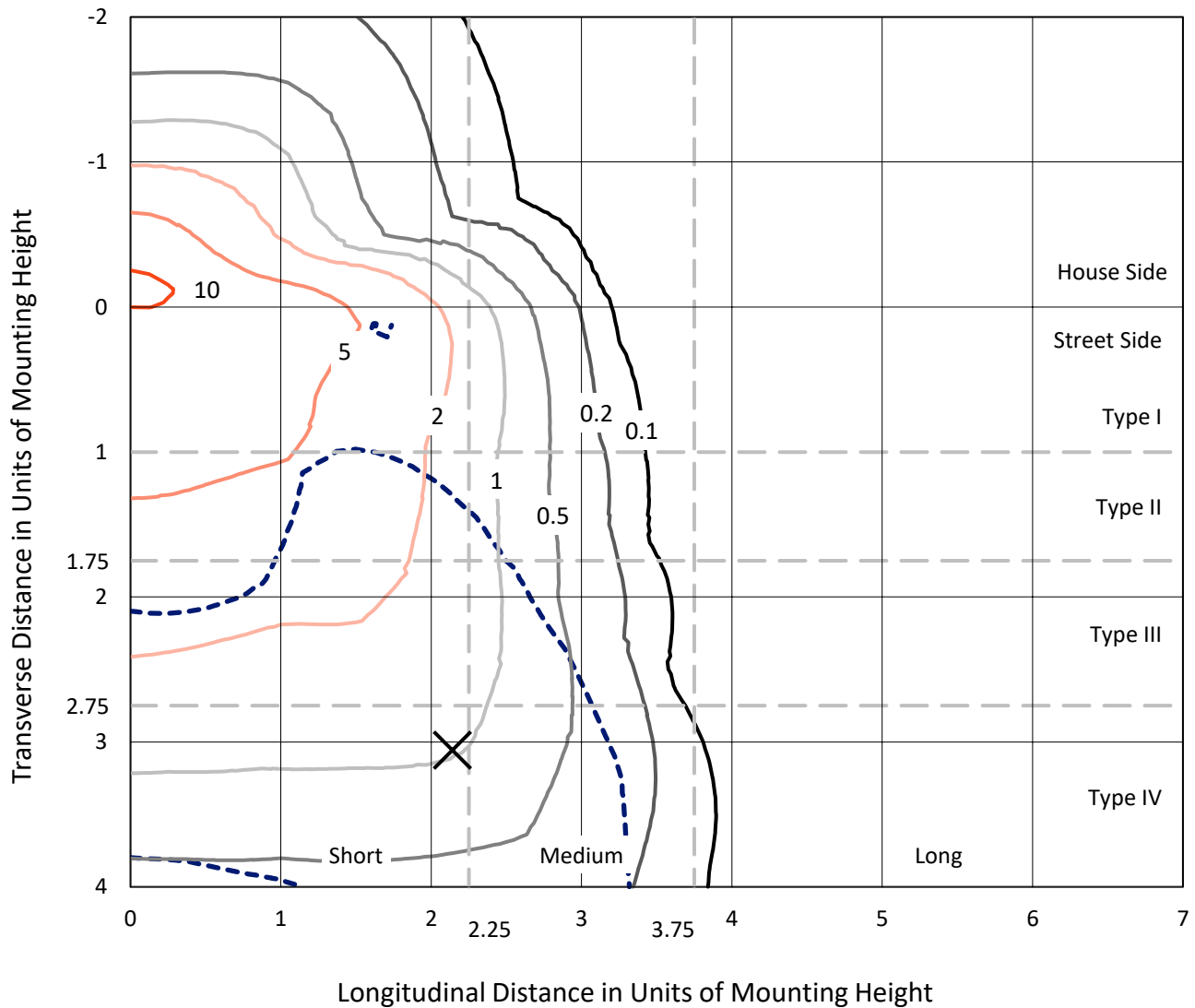


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

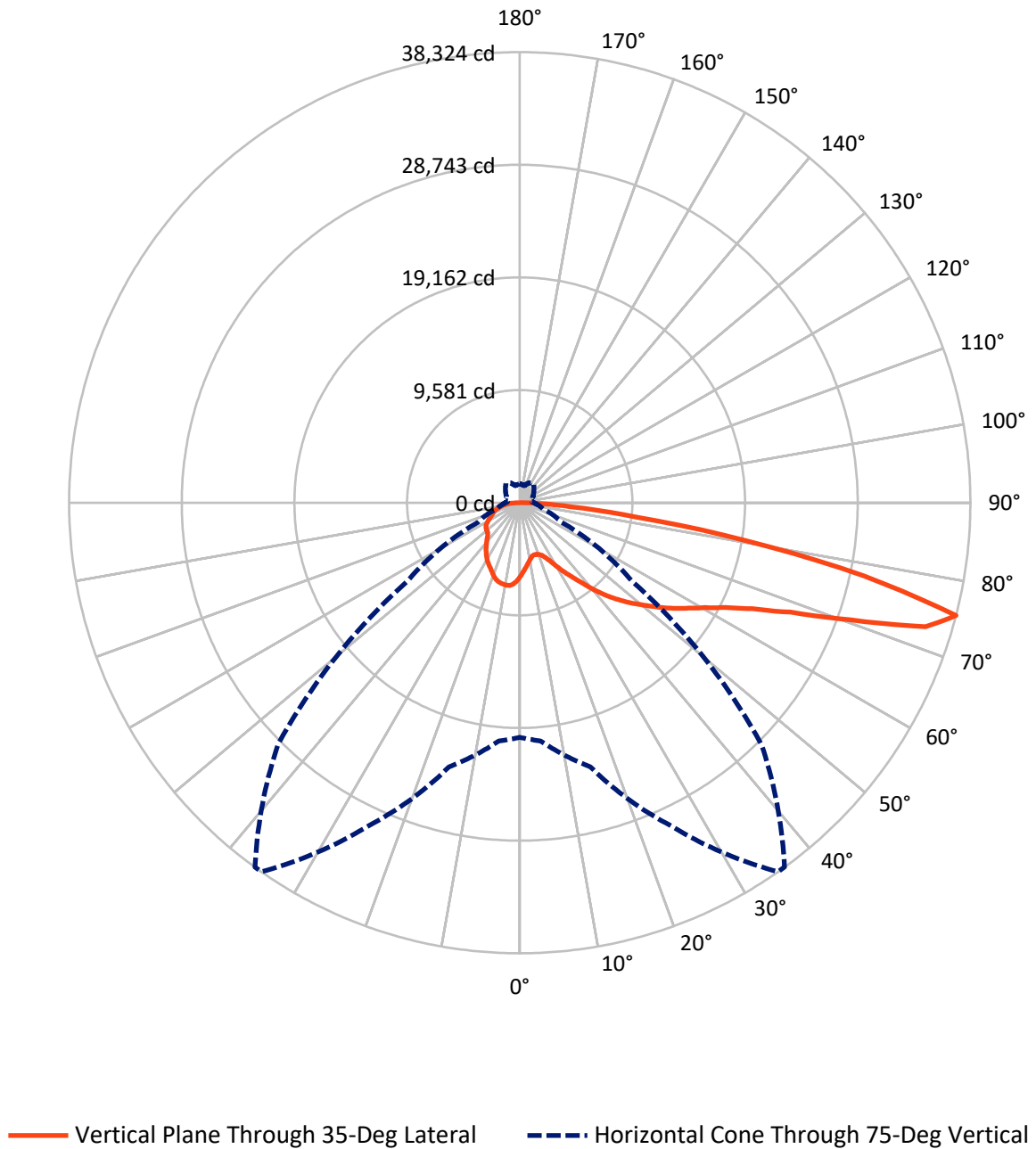


Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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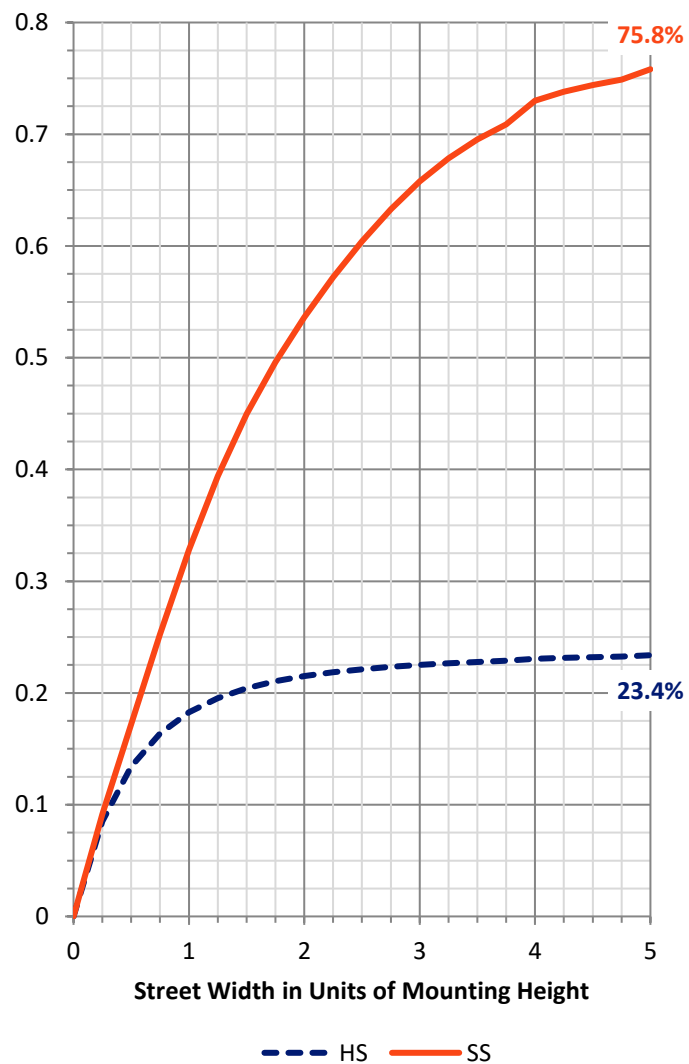
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11189.6	0.0	11189.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	35830.4	0.0	35830.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	47020.0	0.0	47020.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.2	1.3
10°-20°	1711.2	3.6
20°-30°	2873.5	6.1
30°-40°	4465.8	9.5
40°-50°	6628.4	14.1
50°-60°	9150.9	19.5
60°-70°	11102.2	23.6
70°-80°	9175.1	19.5
80°-90°	1319.7	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°	47020.0	100.0
0°-180°	47020.0	100.0

Coefficient of Utilization



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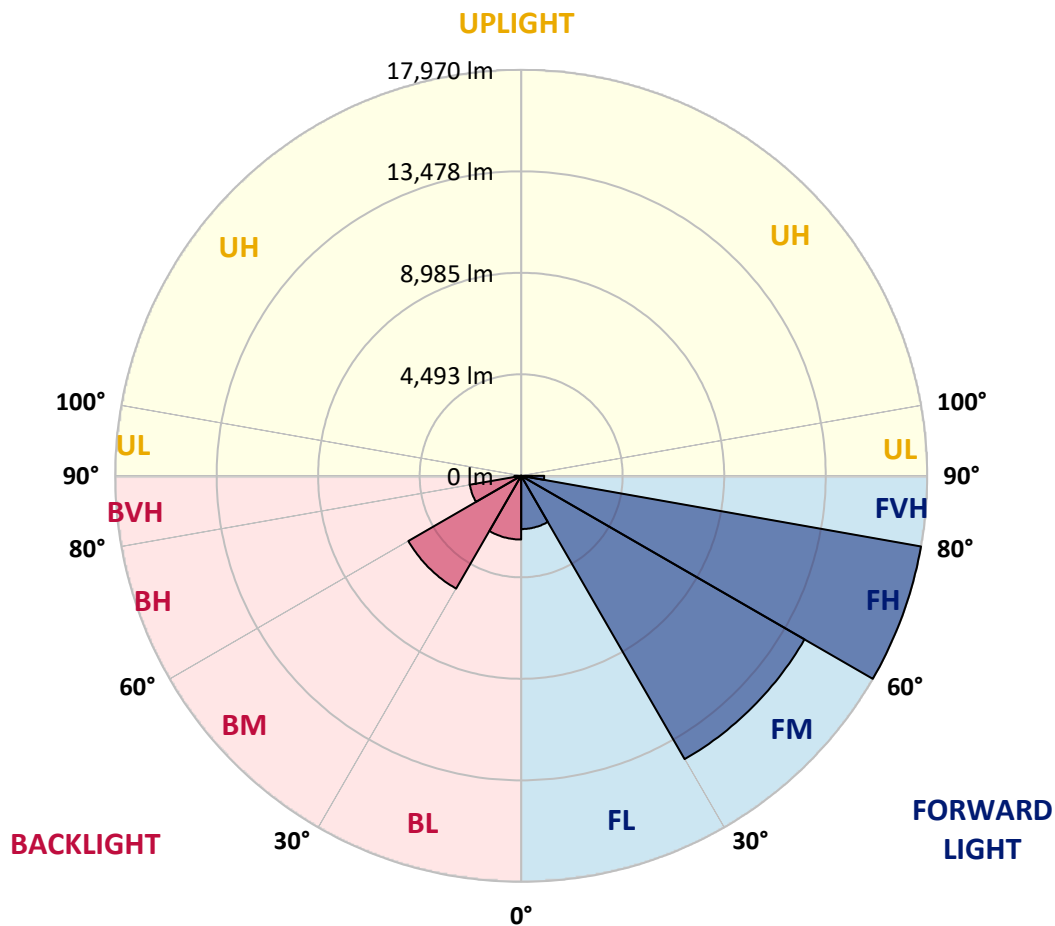
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2358.0	5.0			
FM	(30°-60°)	14479.6	30.8			
FH	(60°-80°)	17970.3	38.2			G5
FVH	(80°-90°)	1022.5	2.2			G5
BL	(0°-30°)	2819.9	6.0	B4/5000		
BM	(30°-60°)	5765.6	12.3	B4/8500		
BH	(60°-80°)	2306.9	4.9	B3/2500		G3/2500
BVH	(80°-90°)	297.2	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°	6265.7	6265.7	6265.7	6265.7	6265.7	6265.7	6265.7	6265.7	6265.7	6265.7	6265.7
2.5°	5777.7	5813.3	5828.5	5820.9	5859.0	5853.9	5907.3	5973.4	6064.9	6153.9	6283.5
5°	5332.9	5371.0	5404.0	5434.5	5508.3	5531.1	5615.0	5742.1	5909.9	6080.2	6293.7
7.5°	4918.5	4951.6	5002.4	5058.3	5182.9	5205.8	5345.6	5543.8	5777.7	6026.8	6321.7
10°	4580.5	4613.5	4666.9	4730.4	4885.5	4913.5	5091.4	5355.7	5660.8	5976.0	6352.2
12.5°	4435.6	4445.7	4476.2	4539.8	4674.5	4692.3	4888.0	5190.5	5546.4	5937.8	6397.9
15°	4428.0	4448.3	4450.8	4483.9	4595.7	4603.3	4783.8	5083.8	5475.2	5930.2	6466.5
17.5°	4504.2	4519.5	4496.6	4516.9	4611.0	4623.7	4766.0	5032.9	5452.3	5963.2	6583.5
20°	4707.6	4720.3	4651.6	4623.7	4692.3	4702.5	4842.3	5066.0	5475.2	6031.9	6743.6
22.5°	5139.7	5147.3	4979.5	4865.2	4870.2	4875.3	4997.3	5200.7	5564.2	6156.4	6947.0
25°	5813.3	5808.2	5541.3	5320.2	5193.1	5165.1	5246.4	5419.3	5714.1	6321.7	7208.8
27.5°	6601.3	6563.1	6296.2	5965.8	5688.7	5648.1	5630.3	5704.0	5927.7	6540.3	7529.0
30°	7490.9	7455.3	7168.1	6736.0	6352.2	6286.1	6118.3	6080.2	6245.4	6837.7	7973.9
32.5°	8467.0	8444.1	8101.0	7577.3	7063.9	6987.6	6705.5	6603.8	6733.4	7287.6	8594.1
35°	9285.5	9265.2	8980.5	8441.6	7813.7	7719.7	7432.5	7318.1	7384.2	7864.6	9405.0
37.5°	10025.2	10015.0	9771.0	9346.5	8698.3	8583.9	8261.1	8223.0	8210.3	8624.6	10388.7
40°	10711.5	10686.1	10431.9	10208.2	9727.8	9623.6	9338.9	9305.8	9209.2	9560.0	11502.0
42.5°	11471.5	11405.4	11036.8	10932.6	10803.0	10716.6	10546.3	10551.3	10337.8	10614.9	12681.4
45°	12091.7	12053.6	11674.9	11613.8	11753.7	11718.1	11865.5	11903.6	11489.3	11720.6	13906.6
47.5°	12757.7	12722.1	12401.8	12358.6	12737.4	12747.5	13268.6	13281.3	12612.8	12869.5	15134.4
50°	13578.7	13527.9	13210.1	13263.5	13688.0	13726.1	14679.4	14592.9	13647.4	14036.3	16351.9
52.5°	14120.1	14150.6	14082.0	14168.4	14748.0	14783.6	16067.2	15846.1	14671.7	15187.7	17546.6
55°	14519.2	14580.2	14793.7	14992.0	15866.4	15902.0	17376.3	17038.2	15520.7	16255.3	18670.1
57.5°	15032.7	14946.3	15345.3	15731.7	16928.9	17023.0	18649.8	18187.1	16273.1	17175.5	19440.3
60°	15769.8	15708.8	16018.9	16590.8	18118.5	18268.5	19997.0	19221.7	16824.7	17905.0	19590.3
62.5°	17264.4	17111.9	17160.2	17666.1	19618.2	19816.5	21517.0	20124.1	17099.2	18189.7	18787.0
65°	19498.8	19236.9	18992.9	19343.7	21730.5	21926.3	23232.8	20833.2	16997.5	17638.1	16654.4
67.5°	22312.6	22053.3	21753.4	22083.8	24841.8	24996.8	25350.2	21232.3	16196.9	15513.1	12884.8
70°	24633.4	24536.8	24895.2	26255.1	29811.2	29816.2	28064.9	20901.9	14003.2	10998.7	7455.3
72.5°	24325.8	24267.3	26155.9	30360.2	36074.4	35939.6	30634.7	18400.7	9432.9	4961.7	2793.5
75°	19956.3	20335.0	23260.7	30286.5	38323.9	38306.1	29061.3	11697.7	3901.8	2056.4	1443.8
77.5°	10701.3	11301.2	15101.3	22360.9	29917.9	30367.8	20431.6	4092.4	1675.1	1316.7	999.0
80°	3490.0	4013.6	6019.2	11385.1	19440.3	19356.4	8756.8	1606.5	1146.4	932.9	691.4
82.5°	1481.9	1542.9	2689.3	5376.1	9976.9	9821.8	2788.4	922.7	805.8	638.0	427.0
85°	579.5	648.2	1187.1	2486.0	4321.2	4227.1	1006.6	457.5	516.0	416.9	254.2
87.5°	190.6	231.3	424.5	851.5	1344.7	1296.4	246.6	157.6	223.7	190.6	91.5
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°	6265.7	6265.7	6265.7	6265.7	6265.7	6265.7	6265.7	6265.7	6265.7	6265.7	6265.7
2.5°	6319.1	6359.8	6408.1	6479.3	6540.3	6591.1	6644.5	6677.5	6690.2	6728.4	6725.8
5°	6364.9	6453.8	6573.3	6690.2	6804.6	6873.2	6934.2	6964.7	6992.7	7013.0	7018.1
7.5°	6441.1	6555.5	6743.6	6896.1	6992.7	7048.6	7089.3	7079.1	7089.3	7094.4	7102.0
10°	6507.2	6667.4	6891.0	7035.9	7109.6	7112.2	7102.0	7066.4	7048.6	7051.2	7056.3
12.5°	6586.0	6763.9	7005.4	7127.4	7147.8	7091.8	7048.6	6987.6	6964.7	6954.6	6949.5
15°	6692.8	6896.1	7130.0	7175.7	7124.9	7053.7	6980.0	6880.9	6830.0	6789.4	6802.1
17.5°	6822.4	7046.1	7226.6	7193.5	7084.2	6967.3	6847.8	6697.9	6593.6	6550.4	6553.0
20°	7002.9	7203.7	7300.3	7155.4	6990.2	6812.2	6608.9	6425.9	6329.3	6286.1	6281.0
22.5°	7221.5	7414.7	7371.5	7089.3	6855.4	6570.8	6316.6	6181.9	6133.6	6103.1	6108.1
25°	7483.3	7648.5	7422.3	6992.7	6634.3	6250.5	6054.8	6011.5	5988.7	5965.8	5965.8
27.5°	7823.9	7912.9	7460.4	6850.4	6288.6	5909.9	5838.7	5846.3	5838.7	5800.6	5808.2
30°	8273.8	8256.0	7496.0	6619.1	5892.1	5602.3	5607.4	5640.4	5645.5	5620.1	5632.8
32.5°	8866.1	8685.6	7513.8	6319.1	5513.3	5332.9	5337.9	5373.5	5399.0	5355.7	5376.1
35°	9582.9	9186.4	7485.8	5942.9	5221.0	5076.1	5038.0	5048.2	5055.8	5015.1	5043.1
37.5°	10419.2	9748.1	7361.3	5526.0	4979.5	4824.5	4743.1	4674.5	4633.8	4595.7	4621.1
40°	11336.8	10360.7	7132.5	5119.3	4710.1	4557.6	4435.6	4305.9	4168.7	4117.8	4140.7
42.5°	12297.6	10991.1	6855.4	4730.4	4400.0	4275.4	4145.8	3957.7	3751.8	3647.6	3660.3
45°	13294.0	11636.7	6583.5	4346.6	4082.3	4028.9	3878.9	3652.7	3429.0	3296.8	3286.7
47.5°	14270.1	12246.8	6184.4	3960.2	3784.9	3843.3	3726.4	3518.0	3268.9	3060.4	3037.5
50°	15203.0	12818.7	5531.1	3568.8	3543.4	3787.4	3675.6	3375.6	3090.9	2824.0	2801.2
52.5°	16128.2	13281.3	4694.9	3212.9	3413.7	3772.1	3609.5	3279.0	2930.8	2651.2	2620.7
55°	16913.7	13520.3	3889.1	2907.9	3225.6	3642.5	3530.7	3164.6	2704.6	2407.2	2381.7
57.5°	17361.0	13327.1	3218.0	2608.0	2966.4	3429.0	3396.0	2920.6	2435.1	2206.4	2175.8
60°	17167.9	12544.2	2669.0	2346.2	2719.8	3197.7	3162.1	2679.1	2229.2	2013.2	1982.7
62.5°	16102.8	11052.1	2234.3	2117.4	2496.1	2961.3	2928.2	2493.6	2071.6	1863.2	1830.2
65°	13957.5	8990.6	1896.2	1926.7	2269.9	2676.6	2724.9	2338.5	1947.1	1743.7	1710.7
67.5°	10645.4	6512.3	1631.9	1761.5	2048.8	2397.0	2536.8	2226.7	1842.9	1649.7	1619.2
70°	6067.5	3698.4	1408.2	1601.4	1853.0	2137.7	2391.9	2137.7	1731.0	1570.9	1550.5
72.5°	2300.4	1698.0	1217.6	1441.2	1664.9	1919.1	2231.8	1997.9	1601.4	1481.9	1461.6
75°	1227.7	1034.5	1024.4	1253.1	1448.9	1705.6	2031.0	1860.7	1504.8	1565.8	1616.6
77.5°	836.3	732.1	856.6	1072.7	1212.5	1469.2	1817.4	1652.2	1304.0	1298.9	1197.2
80°	579.5	518.5	696.5	864.2	938.0	1235.4	1586.1	1418.4	1062.5	991.3	948.1
82.5°	348.2	338.1	521.1	645.6	663.4	953.2	1314.2	1189.6	869.3	757.5	762.6
85°	190.6	200.8	333.0	378.7	386.4	666.0	1029.5	920.2	668.5	561.8	566.8
87.5°	53.4	68.6	122.0	150.0	185.6	345.7	612.6	546.5	335.5	233.9	233.9
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)