

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: P943139

Luminaire Tested: **GALN-SB7C-722-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943139
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-SB7C-722-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43486 lumens
Efficiency: N/A
Efficacy: 124.1 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): 350.5
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



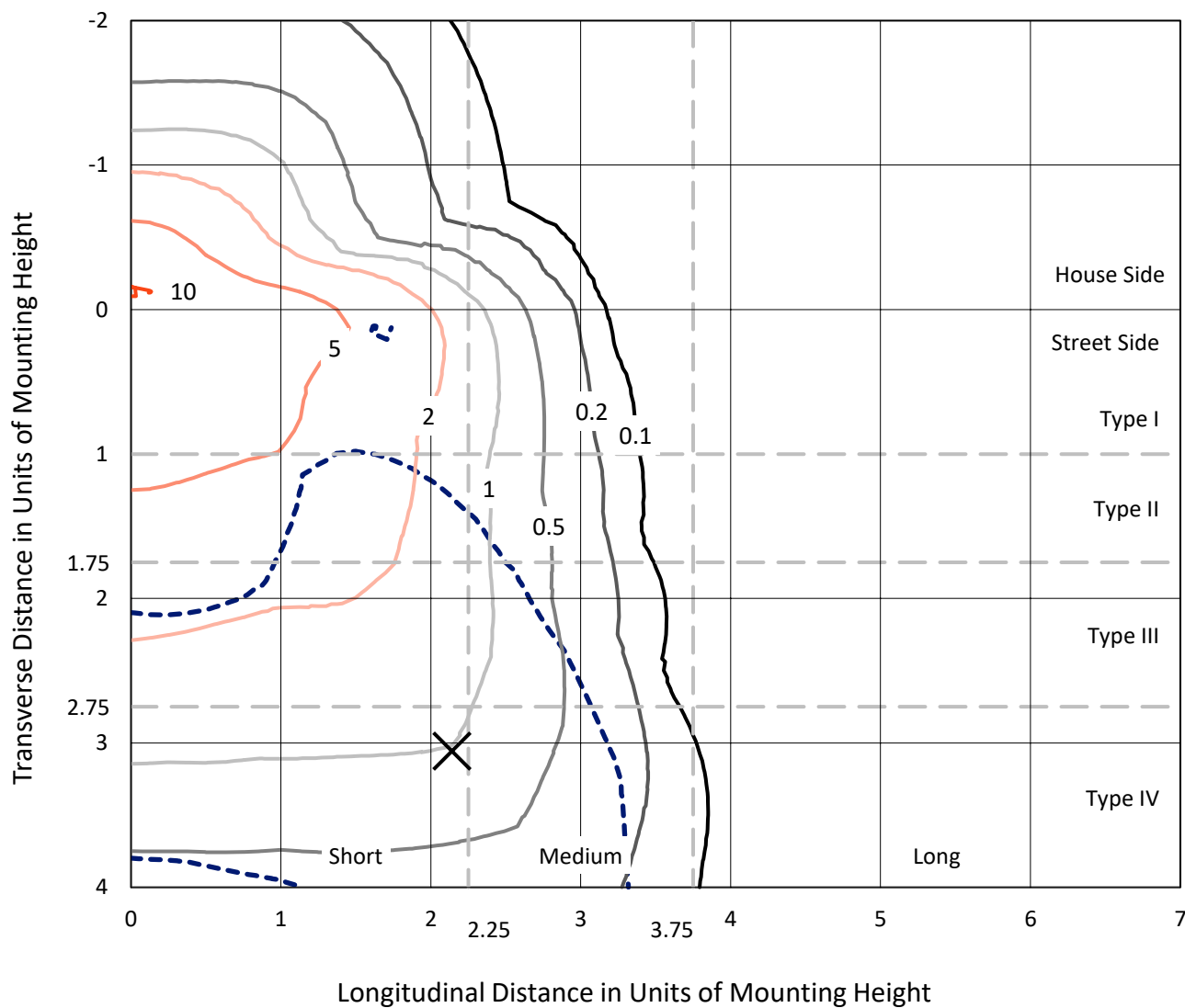
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

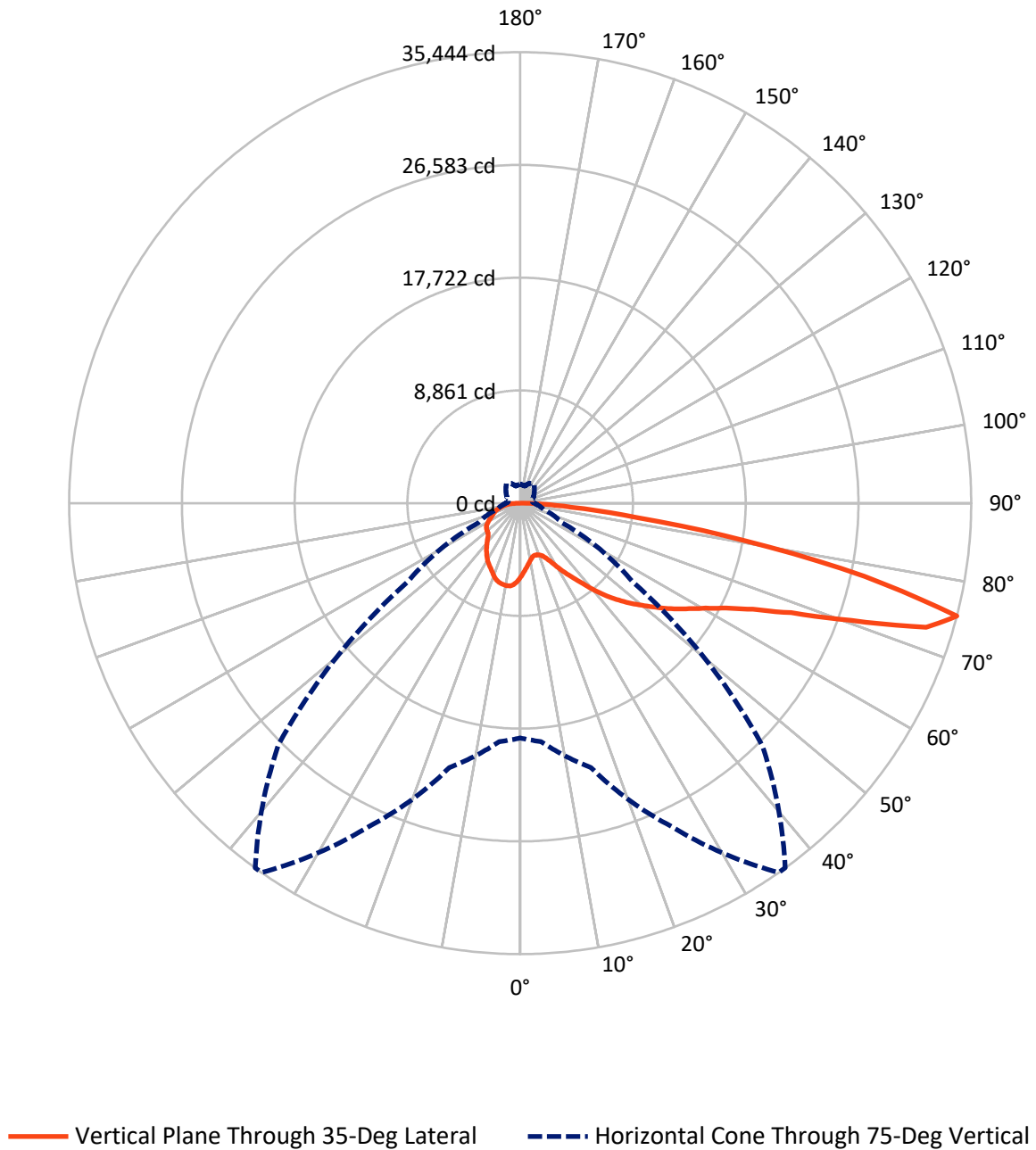


Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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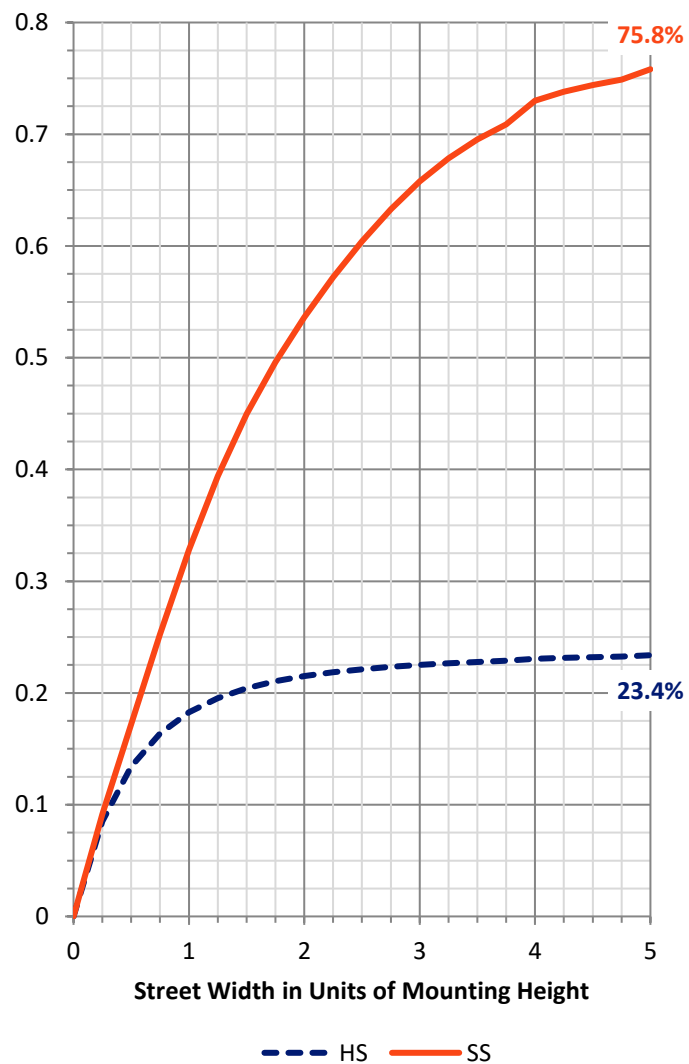
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10348.6	0.0	10348.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	33137.4	0.0	33137.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	43486.0	0.0	43486.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.7	1.3
10°-20°	1582.6	3.6
20°-30°	2657.5	6.1
30°-40°	4130.1	9.5
40°-50°	6130.2	14.1
50°-60°	8463.2	19.5
60°-70°	10267.7	23.6
70°-80°	8485.5	19.5
80°-90°	1220.5	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°	43486.0	100.0
0°-180°	43486.0	100.0

Coefficient of Utilization



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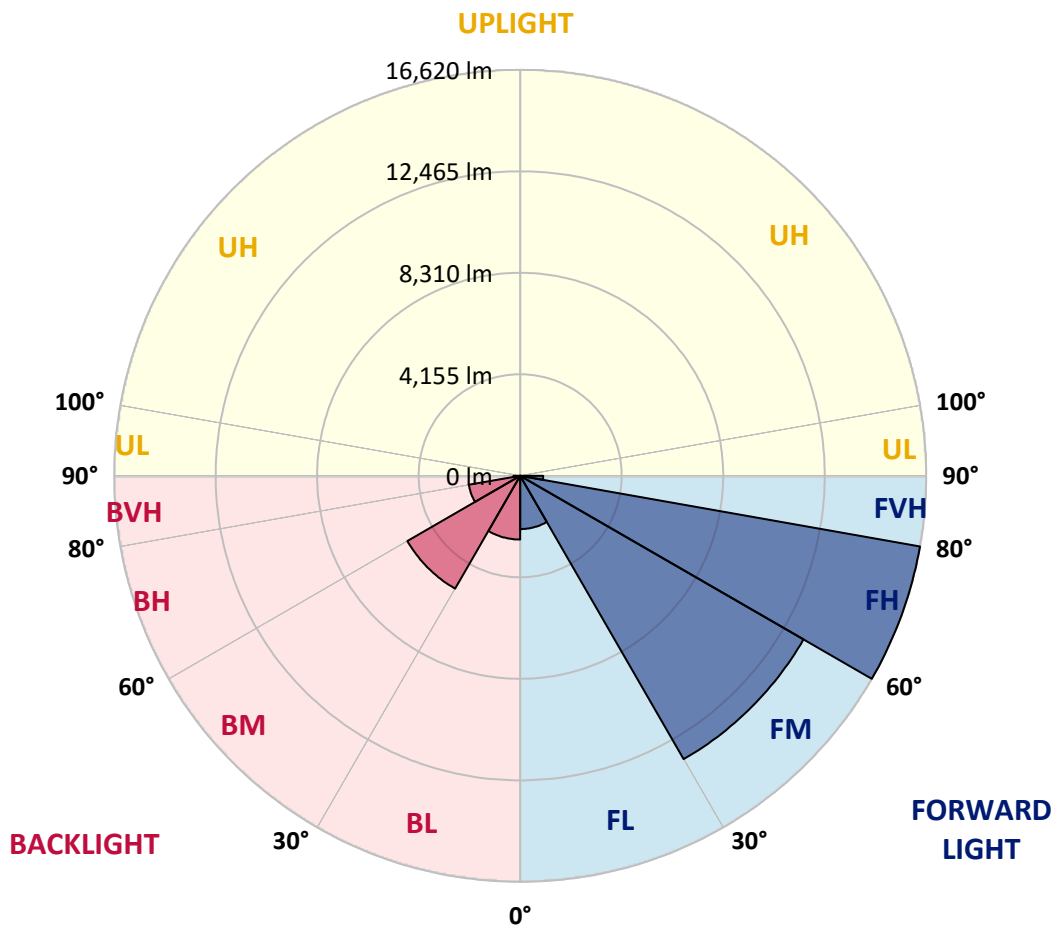
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2180.7	5.0			
FM	(30°-60°)	13391.3	30.8			
FH	(60°-80°)	16619.7	38.2			G5
FVH	(80°-90°)	945.7	2.2			G5
BL	(0°-30°)	2608.0	6.0	B4/5000		
BM	(30°-60°)	5332.2	12.3	B4/8500		
BH	(60°-80°)	2133.6	4.9	B3/2500		G3/2500
BVH	(80°-90°)	274.8	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°	5794.8	5794.8	5794.8	5794.8	5794.8	5794.8	5794.8	5794.8	5794.8	5794.8	5794.8
2.5°	5343.4	5376.4	5390.5	5383.4	5418.7	5414.0	5463.3	5524.5	5609.1	5691.4	5811.3
5°	4932.0	4967.3	4997.9	5026.1	5094.3	5115.4	5193.0	5310.5	5465.7	5623.2	5820.7
7.5°	4548.9	4579.4	4626.4	4678.2	4793.3	4814.5	4943.8	5127.2	5343.4	5573.8	5846.5
10°	4236.2	4266.8	4316.1	4374.9	4518.3	4544.2	4708.7	4953.2	5235.3	5526.8	5874.7
12.5°	4102.2	4111.6	4139.8	4198.6	4323.2	4339.6	4520.7	4800.4	5129.5	5491.5	5917.0
15°	4095.2	4114.0	4116.3	4146.9	4250.3	4257.4	4424.3	4701.7	5063.7	5484.5	5980.5
17.5°	4165.7	4179.8	4158.6	4177.4	4264.4	4276.2	4407.8	4654.6	5042.5	5515.1	6088.7
20°	4353.7	4365.5	4302.0	4276.2	4339.6	4349.0	4478.3	4685.2	5063.7	5578.5	6236.8
22.5°	4753.4	4760.4	4605.3	4499.5	4504.2	4508.9	4621.7	4809.8	5146.0	5693.7	6424.8
25°	5376.4	5371.7	5124.8	4920.3	4802.8	4776.9	4852.1	5012.0	5284.7	5846.5	6667.0
27.5°	6105.1	6069.9	5823.0	5517.4	5261.2	5223.6	5207.1	5275.3	5482.1	6048.7	6963.2
30°	6927.9	6895.0	6629.3	6229.7	5874.7	5813.6	5658.5	5623.2	5776.0	6323.7	7374.6
32.5°	7830.6	7809.5	7492.1	7007.8	6533.0	6462.4	6201.5	6107.5	6227.4	6739.8	7948.2
35°	8587.6	8568.8	8305.5	7807.1	7226.5	7139.5	6873.8	6768.0	6829.2	7273.5	8698.1
37.5°	9271.7	9262.3	9036.6	8644.0	8044.6	7938.8	7640.2	7604.9	7593.2	7976.4	9607.9
40°	9906.4	9882.9	9647.8	9440.9	8996.6	8900.3	8637.0	8606.4	8517.1	8841.5	10637.5
42.5°	10609.3	10548.2	10207.3	10110.9	9991.0	9911.1	9753.6	9758.3	9560.8	9817.1	11728.3
45°	11182.9	11147.7	10797.4	10741.0	10870.3	10837.3	10973.7	11009.0	10625.8	10839.7	12861.4
47.5°	11798.8	11765.9	11469.7	11429.8	11780.0	11789.4	12271.3	12283.1	11664.8	11902.3	13996.9
50°	12558.2	12511.1	12217.3	12266.6	12659.2	12694.5	13576.1	13496.1	12621.6	12981.3	15122.9
52.5°	13058.9	13087.1	13023.6	13103.5	13639.5	13672.4	14859.6	14655.1	13569.0	14046.2	16227.8
55°	13428.0	13484.4	13681.8	13865.2	14673.9	14706.8	16070.3	15757.6	14354.2	15033.6	17266.9
57.5°	13902.8	13822.9	14192.0	14549.3	15656.5	15743.5	17248.1	16820.2	15050.0	15884.6	17979.2
60°	14584.6	14528.1	14815.0	15343.9	16756.7	16895.4	18494.0	17777.0	15560.2	16559.3	18117.9
62.5°	15966.9	15825.8	15870.5	16338.3	18143.7	18327.1	19899.8	18611.5	15814.1	16822.6	17375.0
65°	18033.2	17791.1	17565.4	17889.8	20097.3	20278.3	21486.6	19267.4	15720.0	16312.4	15402.7
67.5°	20635.6	20395.8	20118.4	20424.0	22974.7	23118.1	23444.9	19636.5	14979.5	14347.1	11916.4
70°	22781.9	22692.6	23024.1	24281.8	27570.6	27575.3	25955.5	19330.9	12950.7	10172.1	6895.0
72.5°	22497.5	22443.4	24190.1	28078.4	33363.0	33238.4	28332.2	17017.7	8723.9	4588.8	2583.6
75°	18456.4	18806.7	21512.5	28010.2	35443.5	35427.1	26877.1	10818.5	3608.5	1901.8	1335.3
77.5°	9897.0	10451.8	13966.3	20680.3	27669.3	28085.4	18896.0	3784.8	1549.2	1217.7	923.9
80°	3227.7	3712.0	5566.8	10529.4	17979.2	17901.6	8098.6	1485.7	1060.2	862.8	639.4
82.5°	1370.5	1427.0	2487.2	4972.0	9227.0	9083.6	2578.9	853.4	745.2	590.1	394.9
85°	536.0	599.5	1097.8	2299.1	3996.4	3909.4	930.9	423.1	477.2	385.5	235.1
87.5°	176.3	213.9	392.6	787.5	1243.6	1198.9	228.0	145.8	206.9	176.3	84.6
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°	5794.8	5794.8	5794.8	5794.8	5794.8	5794.8	5794.8	5794.8	5794.8	5794.8	5794.8
2.5°	5844.2	5881.8	5926.5	5992.3	6048.7	6095.7	6145.1	6175.6	6187.4	6222.7	6220.3
5°	5886.5	5968.8	6079.3	6187.4	6293.2	6356.7	6413.1	6441.3	6467.1	6485.9	6490.7
7.5°	5957.0	6062.8	6236.8	6377.8	6467.1	6518.9	6556.5	6547.1	6556.5	6561.2	6568.2
10°	6018.1	6166.2	6373.1	6507.1	6575.3	6577.6	6568.2	6535.3	6518.9	6521.2	6525.9
12.5°	6091.0	6255.6	6478.9	6591.7	6610.5	6558.8	6518.9	6462.4	6441.3	6431.9	6427.2
15°	6189.7	6377.8	6594.1	6636.4	6589.4	6523.6	6455.4	6363.7	6316.7	6279.1	6290.8
17.5°	6309.6	6516.5	6683.4	6652.9	6551.8	6443.6	6333.1	6194.4	6098.1	6058.1	6060.4
20°	6476.5	6662.3	6751.6	6617.6	6464.8	6300.2	6112.2	5942.9	5853.6	5813.6	5808.9
22.5°	6678.7	6857.4	6817.4	6556.5	6340.2	6076.9	5841.8	5717.2	5672.6	5644.4	5649.1
25°	6920.9	7073.7	6864.4	6467.1	6135.7	5780.7	5599.7	5559.7	5538.6	5517.4	5517.4
27.5°	7235.9	7318.1	6899.7	6335.5	5816.0	5465.7	5399.9	5406.9	5399.9	5364.6	5371.7
30°	7652.0	7635.5	6932.6	6121.6	5449.2	5181.2	5185.9	5216.5	5221.2	5197.7	5209.4
32.5°	8199.7	8032.8	6949.1	5844.2	5099.0	4932.0	4936.7	4969.7	4993.2	4953.2	4972.0
35°	8862.6	8495.9	6923.2	5496.2	4828.6	4694.6	4659.4	4668.8	4675.8	4638.2	4664.1
37.5°	9636.1	9015.4	6808.0	5110.7	4605.3	4461.9	4386.7	4323.2	4285.6	4250.3	4273.8
40°	10484.7	9582.0	6596.4	4734.6	4356.1	4215.0	4102.2	3982.3	3855.4	3808.3	3829.5
42.5°	11373.3	10165.0	6340.2	4374.9	4069.3	3954.1	3834.2	3660.2	3469.8	3373.4	3385.2
45°	12294.9	10762.1	6088.7	4019.9	3775.4	3726.1	3587.4	3378.1	3171.3	3049.0	3039.6
47.5°	13197.6	11326.3	5719.6	3662.6	3500.4	3554.5	3446.3	3253.6	3023.2	2830.4	2809.2
50°	14060.3	11855.3	5115.4	3300.6	3277.1	3502.7	3399.3	3121.9	2858.6	2611.8	2590.6
52.5°	14916.0	12283.1	4342.0	2971.5	3157.2	3488.6	3338.2	3032.6	2710.5	2451.9	2423.7
55°	15642.4	12504.1	3596.8	2689.4	2983.2	3368.7	3265.3	2926.8	2501.3	2226.2	2202.7
57.5°	16056.2	12325.4	2976.2	2412.0	2743.4	3171.3	3140.7	2701.1	2252.1	2040.5	2012.3
60°	15877.5	11601.4	2468.4	2169.8	2515.4	2957.3	2924.4	2477.8	2061.7	1861.9	1833.6
62.5°	14892.5	10221.4	2066.4	1958.2	2308.5	2738.7	2708.2	2306.2	1915.9	1723.2	1692.6
65°	12908.4	8314.9	1753.7	1781.9	2099.3	2475.4	2520.1	2162.8	1800.7	1612.7	1582.1
67.5°	9845.3	6022.8	1509.2	1629.1	1894.8	2216.8	2346.1	2059.3	1704.4	1525.7	1497.5
70°	5611.4	3420.5	1302.4	1481.0	1713.8	1977.1	2212.1	1977.1	1600.9	1452.8	1434.0
72.5°	2127.5	1570.4	1126.0	1332.9	1539.8	1774.9	2064.0	1847.8	1481.0	1370.5	1351.7
75°	1135.5	956.8	947.4	1159.0	1340.0	1577.4	1878.3	1720.8	1391.7	1448.1	1495.1
77.5°	773.4	677.0	792.2	992.1	1121.3	1358.8	1680.8	1528.0	1206.0	1201.3	1107.2
80°	536.0	479.6	644.1	799.3	867.5	1142.5	1466.9	1311.8	982.6	916.8	876.9
82.5°	322.1	312.7	481.9	597.1	613.6	881.6	1215.4	1100.2	804.0	700.5	705.2
85°	176.3	185.7	308.0	350.3	357.3	615.9	952.1	851.0	618.3	519.5	524.2
87.5°	49.4	63.5	112.8	138.7	171.6	319.7	566.6	505.4	310.3	216.3	216.3
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)