

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: P943149

Luminaire Tested: **GALN-SB7C-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943149
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-727-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48826 lumens
Efficiency: N/A
Efficacy: 139.3 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



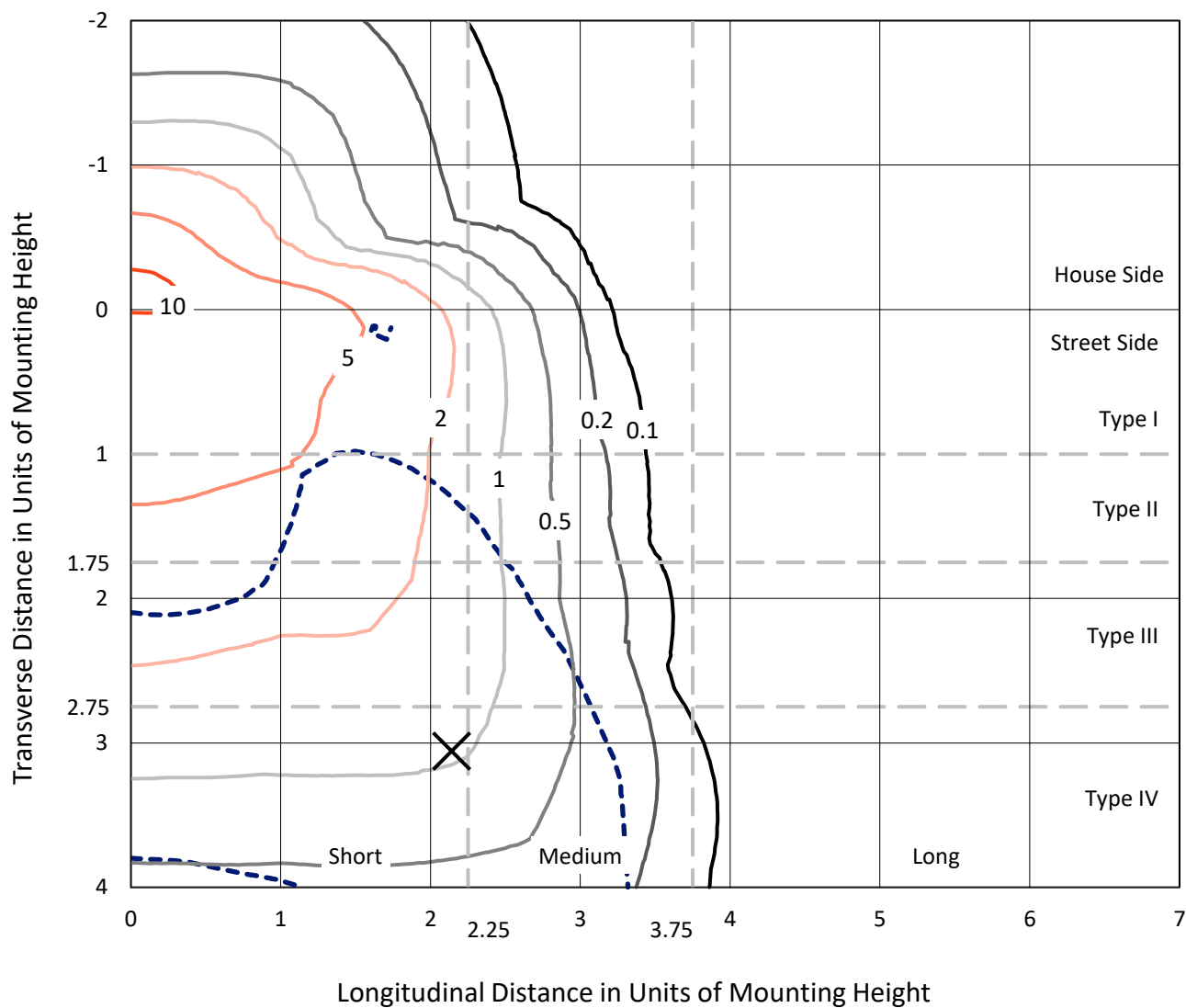
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



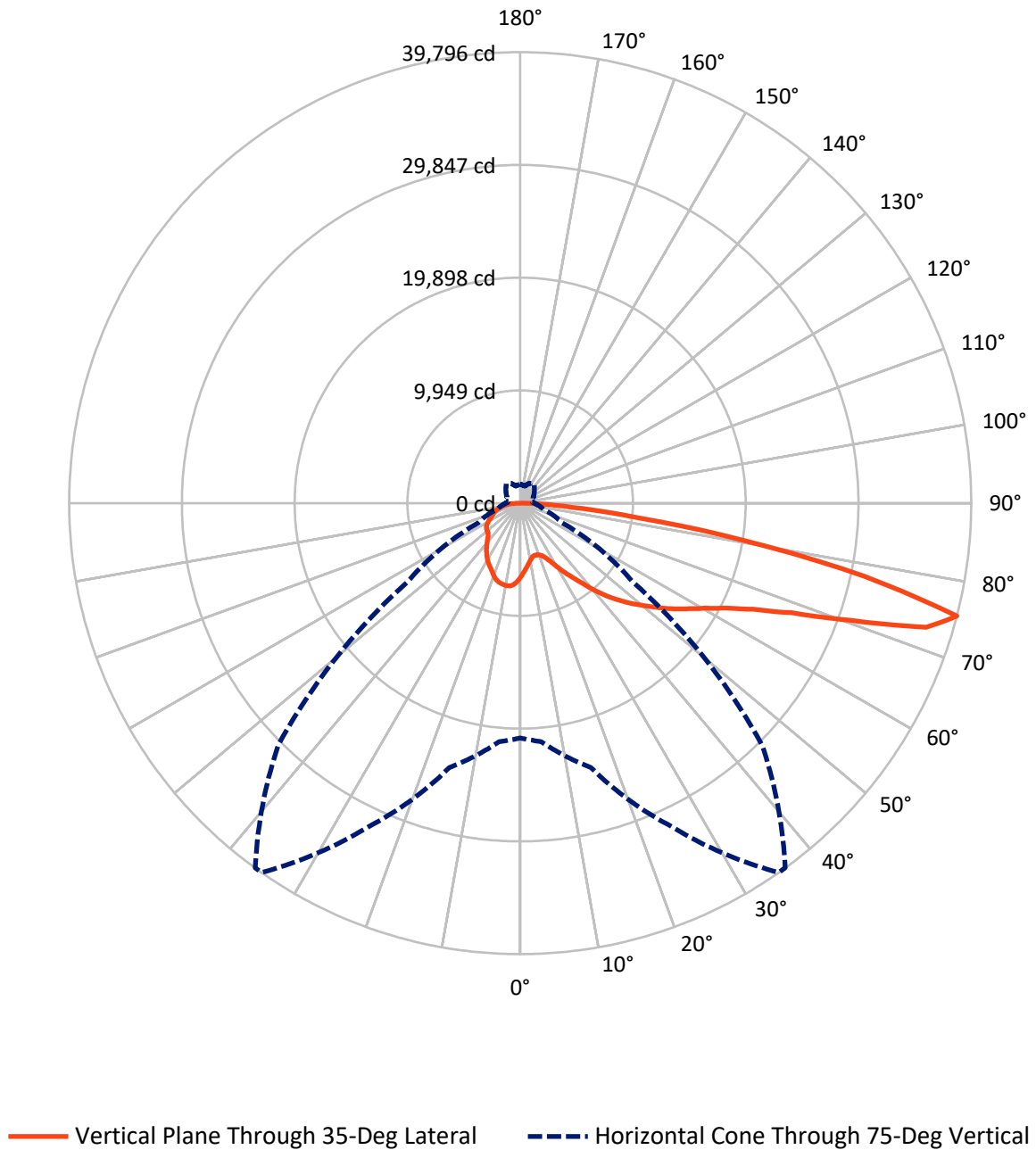
Based on 25 foot mounting height. Maximum calculated value = 11.5 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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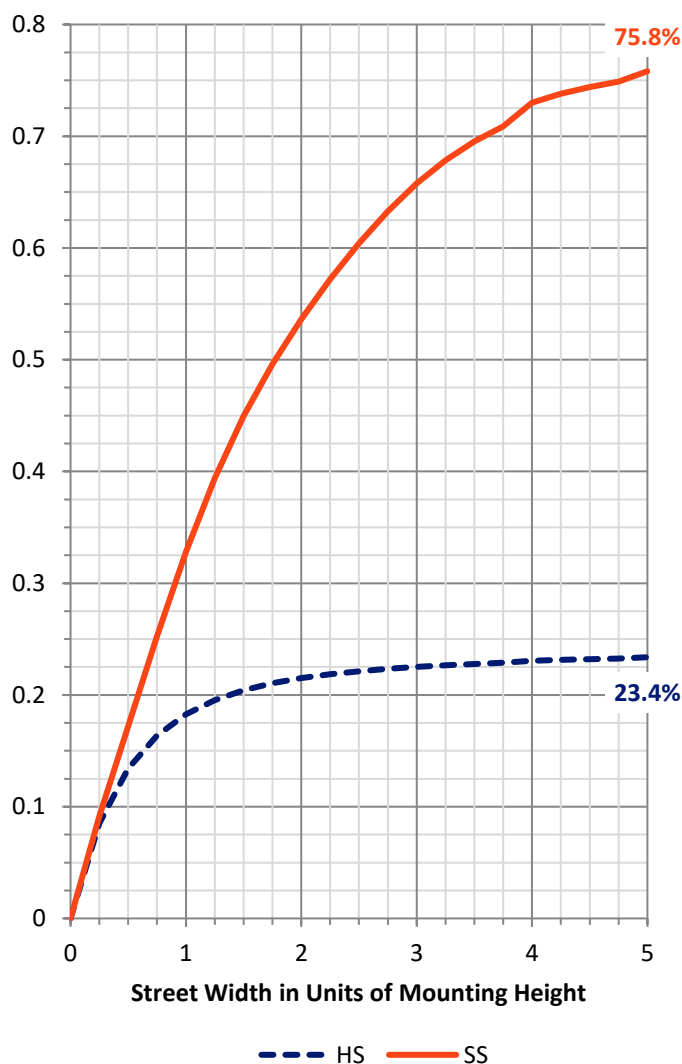
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11619.4	0.0	11619.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	37206.6	0.0	37206.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	48826.0	0.0	48826.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.0	1.3
10°-20°	1776.9	3.6
20°-30°	2983.9	6.1
30°-40°	4637.3	9.5
40°-50°	6883.0	14.1
50°-60°	9502.4	19.5
60°-70°	11528.6	23.6
70°-80°	9527.5	19.5
80°-90°	1370.3	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°	48826.0	100.0
0°-180°	48826.0	100.0

Coefficient of Utilization



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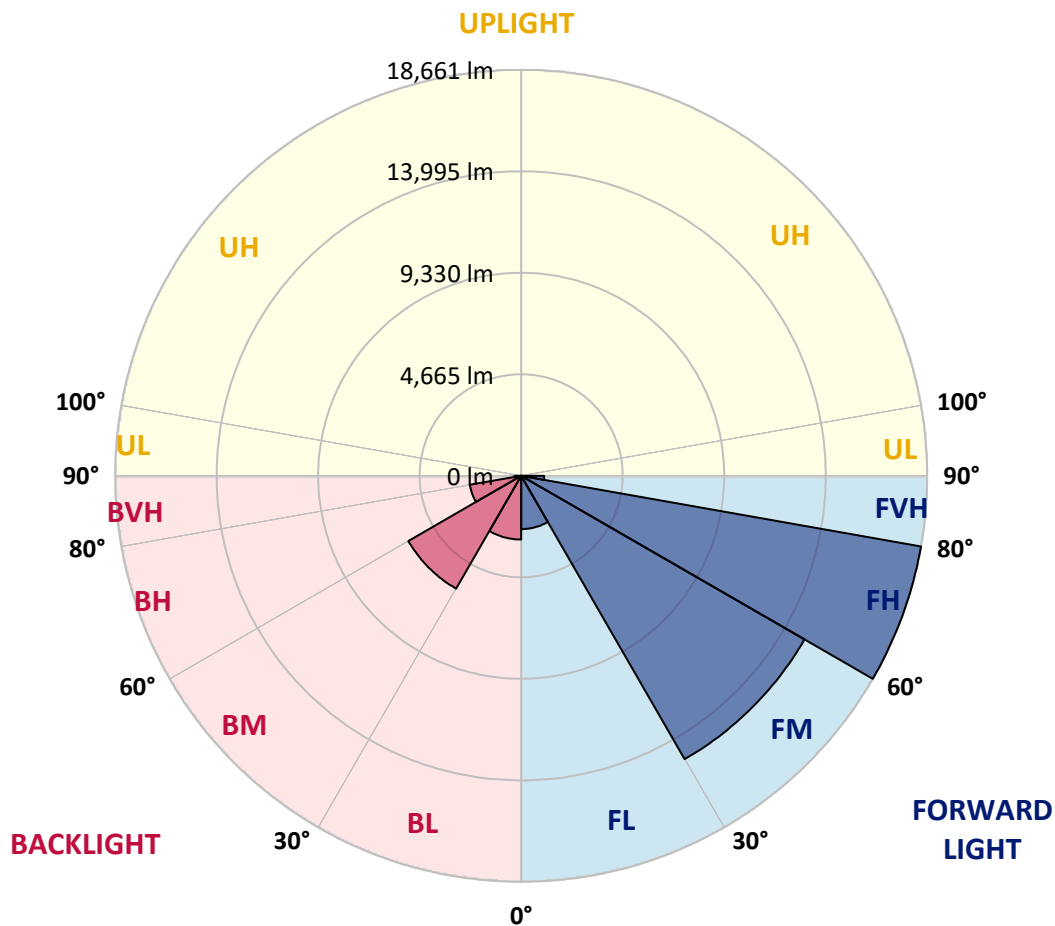
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2448.5	5.0			
FM	(30°-60°)	15035.8	30.8			
FH	(60°-80°)	18660.6	38.2			G5
FVH	(80°-90°)	1061.8	2.2			G5
BL	(0°-30°)	2928.2	6.0	B4/5000		
BM	(30°-60°)	5987.0	12.3	B4/8500		
BH	(60°-80°)	2395.6	4.9	B3/2500		G3/2500
BVH	(80°-90°)	308.6	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°	6506.4	6506.4	6506.4	6506.4	6506.4	6506.4	6506.4	6506.4	6506.4	6506.4	6506.4
2.5°	5999.6	6036.6	6052.4	6044.5	6084.1	6078.8	6134.2	6202.9	6297.9	6390.3	6524.9
5°	5537.7	5577.3	5611.6	5643.3	5719.8	5743.6	5830.7	5962.7	6136.9	6313.7	6535.4
7.5°	5107.5	5141.8	5194.6	5252.6	5382.0	5405.7	5550.9	5756.8	5999.6	6258.3	6564.5
10°	4756.4	4790.7	4846.1	4912.1	5073.1	5102.2	5286.9	5561.4	5878.2	6205.5	6596.1
12.5°	4605.9	4616.5	4648.2	4714.2	4854.1	4872.5	5075.8	5389.9	5759.4	6165.9	6643.6
15°	4598.0	4619.1	4621.8	4656.1	4772.2	4780.2	4967.6	5279.0	5685.5	6158.0	6714.9
17.5°	4677.2	4693.1	4669.3	4690.4	4788.1	4801.3	4949.1	5226.2	5661.8	6192.3	6836.3
20°	4888.4	4901.6	4830.3	4801.3	4872.5	4883.1	5028.3	5260.5	5685.5	6263.6	7002.6
22.5°	5337.1	5345.0	5170.8	5052.0	5057.3	5062.6	5189.3	5400.4	5777.9	6392.9	7213.8
25°	6036.6	6031.3	5754.1	5524.5	5392.5	5363.5	5448.0	5627.4	5933.6	6564.5	7485.7
27.5°	6854.8	6815.2	6538.1	6194.9	5907.2	5865.0	5846.5	5923.1	6155.3	6791.5	7818.2
30°	7778.6	7741.7	7443.4	6994.7	6596.1	6527.5	6353.3	6313.7	6485.3	7100.3	8280.1
32.5°	8792.2	8768.5	8412.1	7868.4	7335.2	7256.0	6963.0	6857.4	6992.1	7567.5	8924.2
35°	9642.1	9621.0	9325.4	8765.8	8113.9	8016.2	7717.9	7599.2	7667.8	8166.6	9766.2
37.5°	10410.2	10399.7	10146.3	9705.5	9032.4	8913.6	8578.4	8538.8	8525.6	8955.9	10787.7
40°	11122.9	11096.5	10832.6	10600.3	10101.4	9993.2	9697.6	9663.3	9562.9	9927.2	11943.8
42.5°	11912.1	11843.5	11460.8	11352.5	11217.9	11128.2	10951.3	10956.6	10734.9	11022.6	13168.5
45°	12556.2	12516.6	12123.3	12059.9	12205.1	12168.1	12321.2	12360.8	11930.6	12170.8	14440.8
47.5°	13247.7	13210.8	12878.2	12833.3	13226.6	13237.1	13778.2	13791.4	13097.3	13363.8	15715.6
50°	14100.3	14047.5	13717.5	13773.0	14213.8	14253.4	15243.2	15153.4	14171.5	14575.4	16980.0
52.5°	14662.5	14694.2	14622.9	14712.6	15314.4	15351.4	16684.3	16454.7	15235.3	15771.1	18220.5
55°	15076.9	15140.2	15362.0	15567.8	16475.8	16512.8	18043.7	17692.6	16116.9	16879.7	19387.2
57.5°	15610.1	15520.3	15934.7	16335.9	17579.1	17676.8	19366.1	18885.7	16898.1	17835.2	20187.0
60°	16375.5	16312.2	16634.2	17228.1	18814.4	18970.2	20765.0	19960.0	17470.9	18592.7	20342.7
62.5°	17927.6	17769.2	17819.3	18344.6	20371.7	20577.6	22343.5	20897.0	17756.0	18888.3	19508.6
65°	20247.7	19975.8	19722.4	20086.7	22565.2	22768.4	24125.1	21633.4	17650.4	18315.6	17294.1
67.5°	23169.6	22900.4	22588.9	22932.1	25795.9	25957.0	26323.8	22047.8	16819.0	16108.9	13379.7
70°	25579.5	25479.2	25851.4	27263.5	30956.2	30961.5	29142.8	21704.7	14541.1	11421.2	7741.7
72.5°	25260.1	25199.4	27160.6	31526.3	37459.9	37320.0	31811.4	19107.4	9795.2	5152.3	2900.8
75°	20722.8	21116.1	24154.2	31449.8	39795.9	39777.4	30177.5	12147.0	4051.6	2135.4	1499.2
77.5°	11112.3	11735.3	15681.3	23219.8	31067.0	31534.2	21216.4	4249.6	1739.4	1367.3	1037.3
80°	3624.0	4167.8	6250.4	11822.4	20187.0	20099.9	9093.1	1668.2	1190.4	968.7	717.9
82.5°	1538.8	1602.2	2792.6	5582.6	10360.1	10199.1	2895.5	958.1	836.7	662.5	443.4
85°	601.8	673.1	1232.7	2581.4	4487.2	4389.5	1045.2	475.1	535.8	432.9	264.0
87.5°	198.0	240.2	440.8	884.2	1396.3	1346.2	256.0	163.6	232.3	198.0	95.0
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°	6506.4	6506.4	6506.4	6506.4	6506.4	6506.4	6506.4	6506.4	6506.4	6506.4	6506.4
2.5°	6561.8	6604.1	6654.2	6728.1	6791.5	6844.3	6899.7	6934.0	6947.2	6986.8	6984.1
5°	6609.3	6701.7	6825.8	6947.2	7066.0	7137.2	7200.6	7232.3	7261.3	7282.4	7287.7
7.5°	6688.5	6807.3	7002.6	7161.0	7261.3	7319.4	7361.6	7351.0	7361.6	7366.9	7374.8
10°	6757.1	6923.4	7155.7	7306.2	7382.7	7385.4	7374.8	7337.8	7319.4	7322.0	7327.3
12.5°	6839.0	7023.7	7274.5	7401.2	7422.3	7364.2	7319.4	7256.0	7232.3	7221.7	7216.4
15°	6949.8	7161.0	7403.8	7451.3	7398.5	7324.6	7248.1	7145.2	7092.4	7050.1	7063.3
17.5°	7084.4	7316.7	7504.1	7469.8	7356.3	7234.9	7110.8	6955.1	6846.9	6802.0	6804.7
20°	7271.9	7480.4	7580.7	7430.2	7258.7	7073.9	6862.7	6672.7	6572.4	6527.5	6522.2
22.5°	7498.9	7699.5	7654.6	7361.6	7118.8	6823.1	6559.2	6419.3	6369.1	6337.5	6342.7
25°	7770.7	7942.3	7707.4	7261.3	6889.1	6490.6	6287.3	6242.4	6218.7	6194.9	6194.9
27.5°	8124.4	8216.8	7747.0	7113.5	6530.2	6136.9	6063.0	6070.9	6063.0	6023.4	6031.3
30°	8591.6	8573.1	7783.9	6873.3	6118.4	5817.5	5822.8	5857.1	5862.4	5836.0	5849.2
32.5°	9206.6	9019.2	7802.4	6561.8	5725.1	5537.7	5543.0	5579.9	5606.3	5561.4	5582.6
35°	9951.0	9539.2	7773.4	6171.2	5421.6	5271.1	5231.5	5242.1	5250.0	5207.8	5236.8
37.5°	10819.4	10122.5	7644.0	5738.3	5170.8	5009.8	4925.3	4854.1	4811.8	4772.2	4798.6
40°	11772.2	10758.6	7406.5	5316.0	4891.0	4732.6	4605.9	4471.3	4328.8	4276.0	4299.8
42.5°	12770.0	11413.2	7118.8	4912.1	4569.0	4439.7	4305.0	4109.7	3895.9	3787.7	3800.9
45°	13804.6	12083.7	6836.3	4513.6	4239.1	4183.6	4027.9	3793.0	3560.7	3423.4	3412.9
47.5°	14818.2	12717.2	6421.9	4112.4	3930.2	3990.9	3869.5	3653.1	3394.4	3178.0	3154.2
50°	15786.9	13311.1	5743.6	3705.9	3679.5	3932.9	3816.7	3505.3	3209.6	2932.5	2908.7
52.5°	16747.7	13791.4	4875.2	3336.3	3544.9	3917.0	3748.1	3405.0	3043.4	2753.0	2721.3
55°	17563.3	14039.6	4038.5	3019.6	3349.5	3782.4	3666.3	3286.2	2808.4	2499.6	2473.2
57.5°	18027.9	13839.0	3341.6	2708.1	3080.3	3560.7	3526.4	3032.8	2528.7	2291.1	2259.4
60°	17827.3	13026.0	2771.5	2436.3	2824.3	3320.5	3283.6	2782.0	2314.9	2090.5	2058.8
62.5°	16721.3	11476.6	2320.1	2198.7	2592.0	3075.0	3040.7	2589.4	2151.2	1934.8	1900.4
65°	14493.6	9336.0	1969.1	2000.7	2357.1	2779.4	2829.6	2428.4	2021.9	1810.7	1776.4
67.5°	11054.3	6762.4	1694.6	1829.2	2127.4	2489.1	2634.2	2312.2	1913.6	1713.0	1681.4
70°	6300.5	3840.5	1462.3	1662.9	1924.2	2219.8	2483.8	2219.8	1797.5	1631.2	1610.1
72.5°	2388.8	1763.2	1264.3	1496.6	1728.9	1992.8	2317.5	2074.7	1662.9	1538.8	1517.7
75°	1274.9	1074.3	1063.7	1301.3	1504.5	1771.1	2109.0	1932.1	1562.6	1625.9	1678.7
77.5°	868.4	760.2	889.5	1113.9	1259.0	1525.6	1887.3	1715.7	1354.1	1348.8	1243.2
80°	601.8	538.5	723.2	897.4	974.0	1282.8	1647.1	1472.8	1103.3	1029.4	984.5
82.5°	361.6	351.1	541.1	670.4	688.9	989.8	1364.6	1235.3	902.7	786.6	791.9
85°	198.0	208.5	345.8	393.3	401.2	691.6	1069.0	955.5	694.2	583.3	588.6
87.5°	55.4	71.3	126.7	155.7	192.7	359.0	636.1	567.5	348.4	242.8	242.8
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)