

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: P950214

Luminaire Tested: **GALN-SB4D-727-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-727-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36970 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 293.6
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

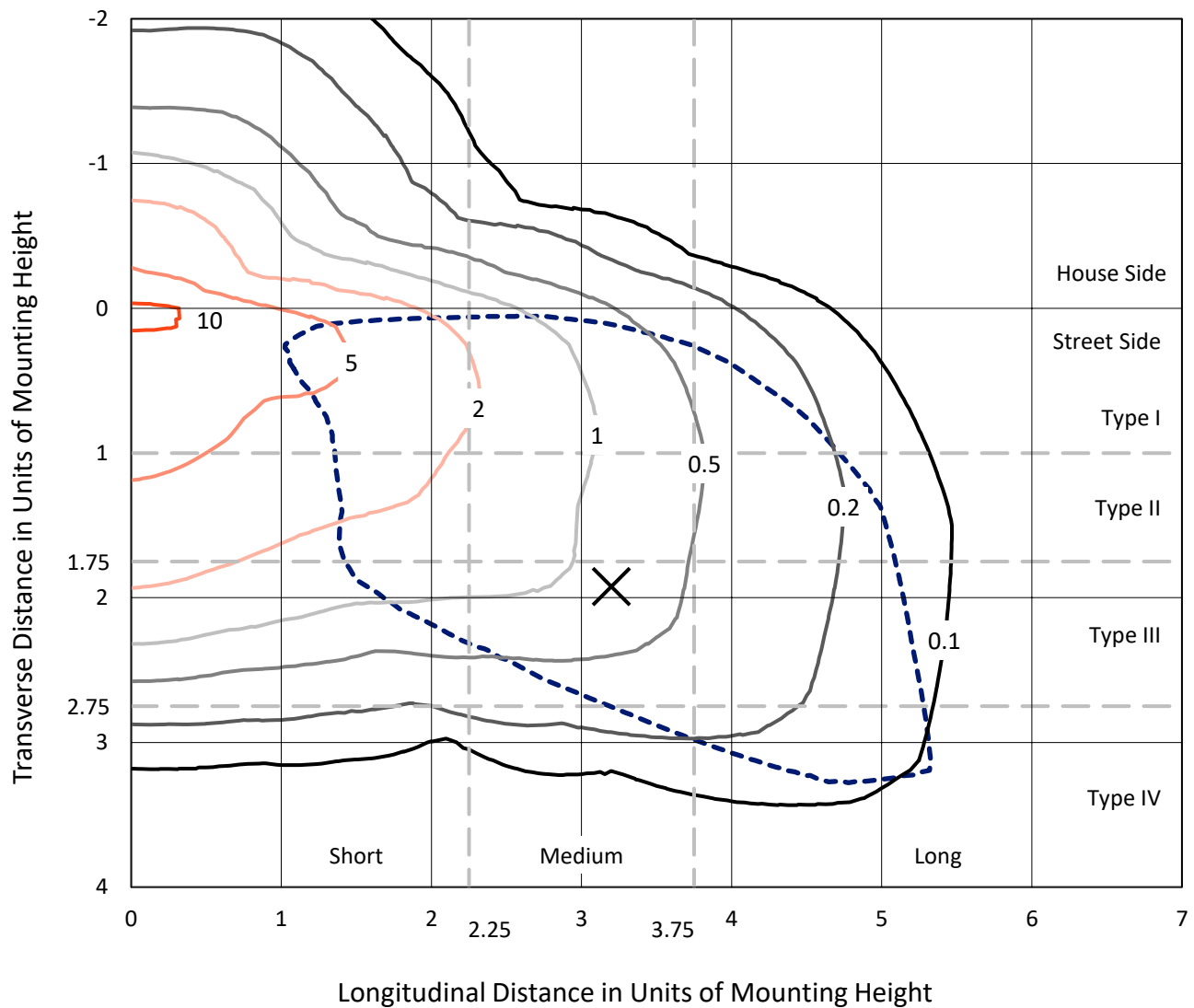


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

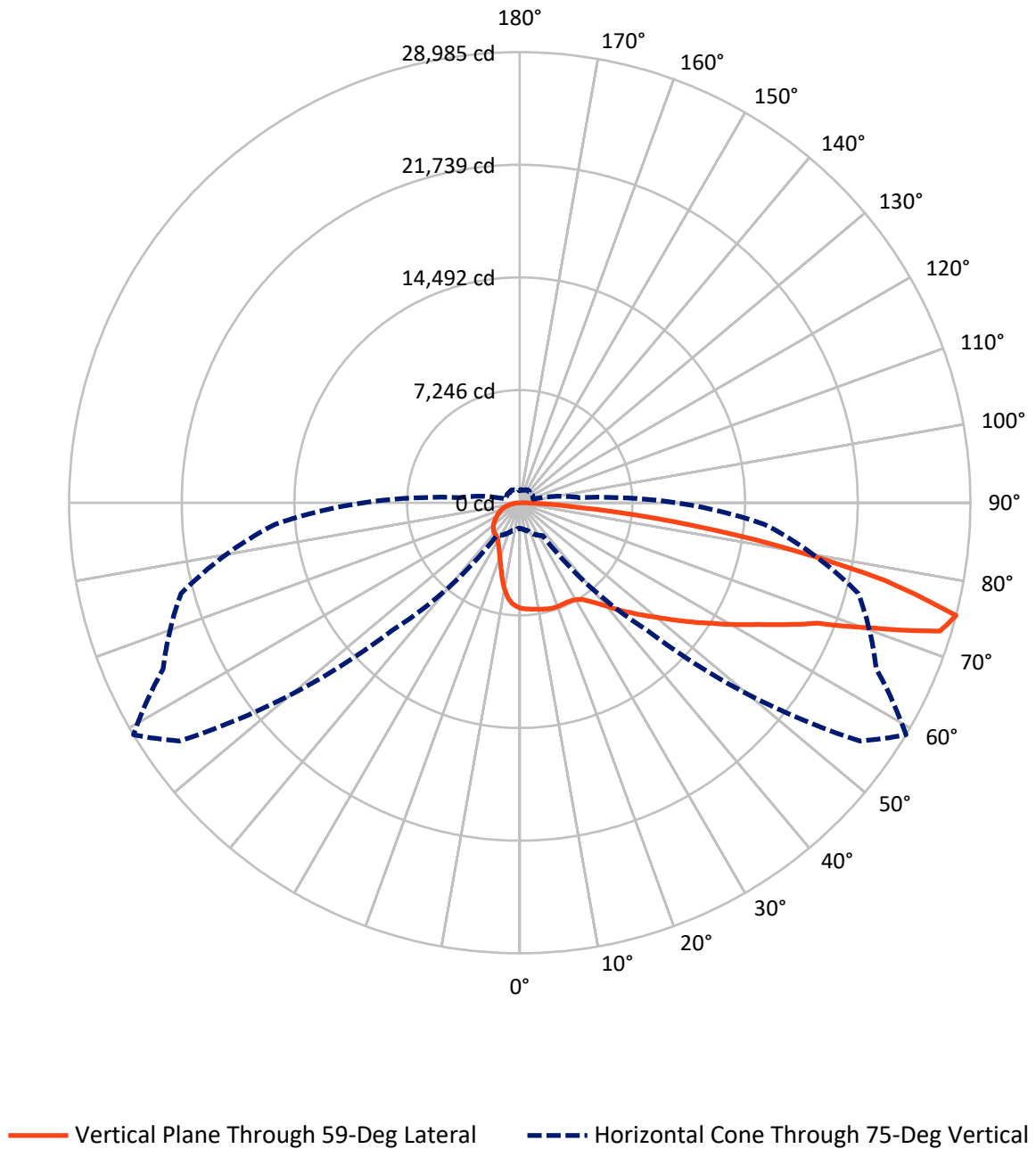


Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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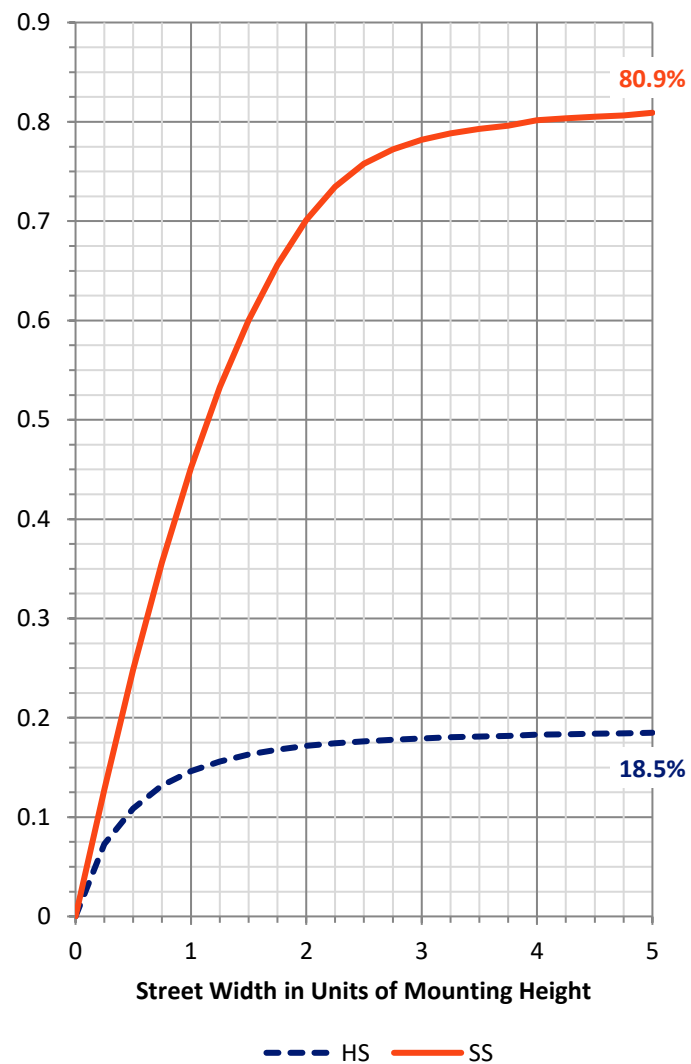
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6934.0	0.0	6934.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	30036.0	0.0	30036.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	36970.0	0.0	36970.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	608.4	1.6
10°-20°	1555.2	4.2
20°-30°	2362.3	6.4
30°-40°	3511.5	9.5
40°-50°	5222.2	14.1
50°-60°	7088.5	19.2
60°-70°	8653.9	23.4
70°-80°	6791.5	18.4
80°-90°	1176.4	3.2
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°	36970.0	100.0
0°-180°	36970.0	100.0

Coefficient of Utilization



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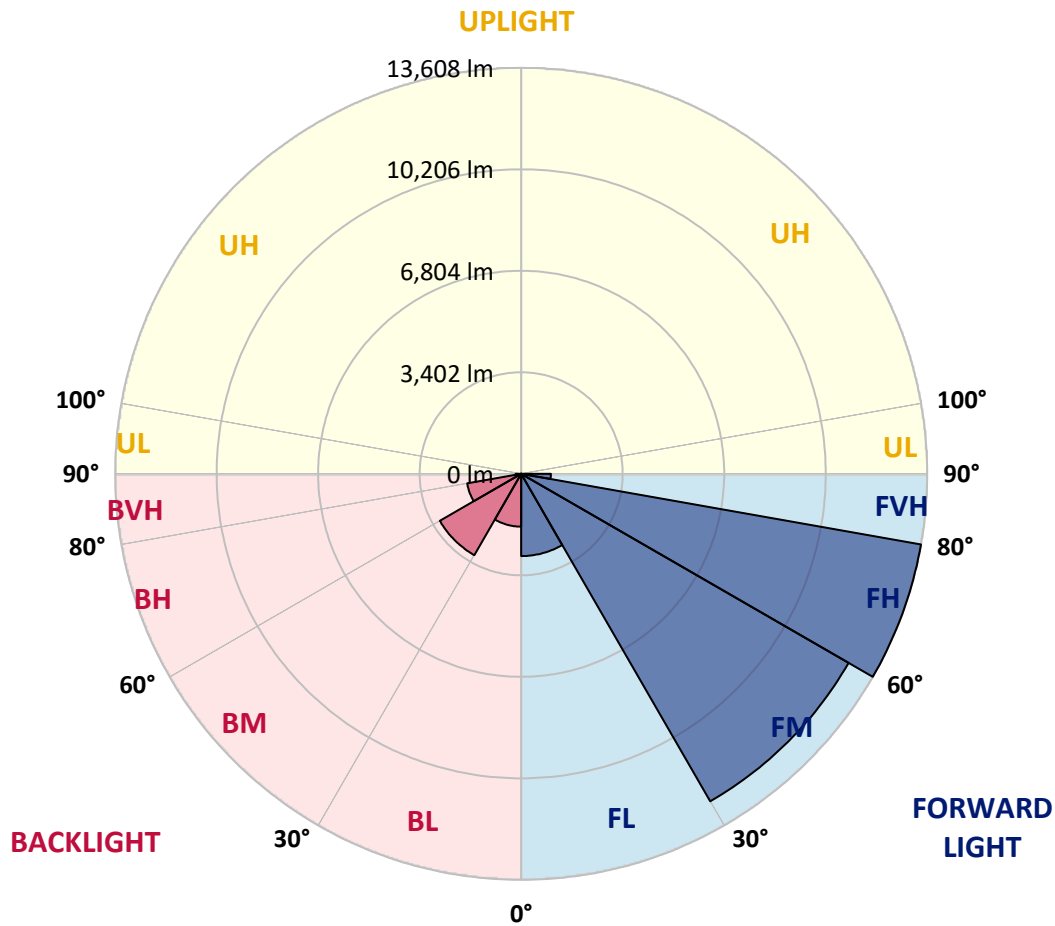
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2756.5	7.5			
FM	(30°-60°)	12674.9	34.3			
FH	(60°-80°)	13608.3	36.8			G5
FVH	(80°-90°)	996.4	2.7			G5
BL	(0°-30°)	1769.5	4.8	B3/2500		
BM	(30°-60°)	3147.3	8.5	B3/5000		
BH	(60°-80°)	1837.1	5.0	B3/2500		G3/2500
BVH	(80°-90°)	180.1	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6785.8	6785.8	6785.8	6785.8	6785.8	6785.8	6785.8	6785.8	6785.8	6785.8	6785.8
2.5°	6843.4	6819.6	6843.4	6833.5	6829.5	6821.6	6823.5	6837.5	6829.5	6839.5	6805.6
5°	6797.7	6783.8	6807.6	6801.7	6827.5	6831.5	6857.4	6873.3	6883.2	6885.2	6859.3
7.5°	6722.1	6708.2	6742.0	6769.9	6825.5	6841.4	6895.1	6921.0	6934.9	6958.8	6921.0
10°	6445.7	6439.7	6523.2	6628.6	6759.9	6841.4	6923.0	6966.7	6988.6	7052.3	7008.5
12.5°	5956.4	5964.4	6073.8	6276.6	6539.2	6801.7	6954.8	7018.4	7052.3	7131.8	7111.9
15°	5489.1	5487.1	5606.4	5823.2	6191.1	6626.7	6970.7	7080.1	7137.8	7255.1	7239.2
17.5°	5218.6	5210.6	5294.2	5459.2	5801.3	6358.2	6930.9	7113.9	7237.2	7384.4	7370.5
20°	5168.9	5153.0	5196.7	5278.3	5520.9	6063.8	6827.5	7113.9	7316.8	7507.7	7499.7
22.5°	5349.9	5324.0	5306.1	5296.2	5403.6	5821.2	6710.2	7090.0	7434.1	7684.7	7670.8
25°	5713.8	5674.0	5582.5	5493.0	5461.2	5711.8	6606.8	7084.1	7609.1	7923.4	7871.6
27.5°	6302.5	6252.8	6067.8	5853.0	5660.1	5767.5	6561.0	7119.9	7802.0	8175.9	8072.5
30°	7032.4	6978.7	6746.0	6415.8	6069.8	5974.3	6618.7	7225.3	8048.6	8512.0	8309.2
32.5°	7686.7	7627.0	7428.1	7092.0	6624.7	6332.3	6801.7	7426.2	8436.5	8979.4	8665.2
35°	8267.4	8197.8	8018.8	7708.6	7304.8	6835.5	7131.8	7782.1	8987.4	9739.1	9148.4
37.5°	8836.2	8754.7	8559.8	8231.6	7949.2	7505.7	7587.2	8239.6	9719.2	10661.9	9788.8
40°	9472.6	9355.3	9118.6	8794.4	8520.0	8291.3	8185.9	8800.4	10463.0	11692.1	10588.3
42.5°	10089.1	9977.8	9695.4	9418.9	9074.9	9009.2	8880.0	9456.7	11276.5	12823.7	11399.8
45°	10753.4	10620.2	10278.1	9928.1	9711.3	9486.5	9552.2	10113.0	12074.0	13977.2	12251.0
47.5°	11375.9	11226.7	10823.0	10433.2	10313.9	9888.3	10168.7	10834.9	12903.3	15146.6	13094.2
50°	11712.0	11564.8	11228.7	10876.7	10783.2	10383.5	10836.9	11628.5	13772.4	16312.1	13903.7
52.5°	11992.4	11833.3	11393.8	11198.9	11171.0	10922.5	11660.3	12535.4	14641.5	17342.3	14685.2
55°	12290.7	12113.7	11552.9	11377.9	11505.2	11527.0	12636.8	13563.6	15560.3	18346.6	15423.1
57.5°	12634.8	12410.1	11706.0	11529.0	11831.3	12235.1	13758.5	14629.6	16463.2	19277.4	16079.4
60°	12959.0	12732.3	12000.4	11769.7	12183.3	13056.4	15045.2	15920.3	17485.5	20106.7	16699.9
62.5°	13022.6	12835.7	12235.1	12233.1	12660.7	14015.0	16568.6	17222.9	18378.4	20926.1	17256.8
65°	11920.8	11803.5	11447.5	12215.2	13344.8	15395.2	18265.1	18889.6	19514.0	21642.0	17746.0
67.5°	9072.9	9088.8	9062.9	10544.6	12791.9	17378.1	20721.2	20673.5	20916.1	22445.5	18308.8
70°	4148.6	4242.1	4850.7	7279.0	10248.2	17606.8	24782.3	24163.8	22676.2	23485.7	18796.1
72.5°	2241.4	2313.0	2561.6	3526.1	6161.3	15653.8	27817.2	28256.8	25017.0	24185.7	18261.1
75°	1644.7	1684.5	1857.5	2241.4	2587.4	11634.4	26729.4	28984.7	25309.4	22552.9	15769.1
77.5°	1231.1	1249.0	1390.2	1776.0	1324.5	6133.4	21357.6	24004.7	21665.9	18529.6	11648.4
80°	893.0	912.9	1018.3	1332.5	928.8	2243.4	14665.4	16849.1	14838.4	11811.4	5805.3
82.5°	616.5	624.5	670.2	906.9	648.3	871.1	8321.1	9880.3	8283.3	4144.6	1567.2
85°	371.9	381.8	401.7	529.0	367.9	413.7	3591.8	3715.1	2476.0	990.4	487.3
87.5°	153.1	163.1	179.0	222.7	145.2	115.3	592.7	743.8	463.4	290.4	151.1
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°	6785.8	6785.8	6785.8	6785.8	6785.8	6785.8	6785.8	6785.8	6785.8	6785.8	6785.8
2.5°	6795.7	6781.8	6744.0	6692.3	6644.6	6584.9	6559.0	6537.2	6517.3	6479.5	6461.6
5°	6837.5	6799.7	6698.3	6567.0	6417.8	6254.8	6095.7	5986.3	5892.8	5823.2	5765.5
7.5°	6901.1	6829.5	6644.6	6376.1	6034.0	5684.0	5367.8	5143.0	4974.0	4912.3	4804.9
10°	6966.7	6881.2	6559.0	6085.7	5495.0	4956.1	4536.4	4305.7	4170.5	4126.7	4059.1
12.5°	7044.3	6919.0	6425.8	5682.0	4892.4	4301.8	3935.8	3800.6	3731.0	3707.1	3713.1
15°	7157.7	6950.8	6224.9	5176.8	4317.7	3824.4	3587.8	3494.3	3458.5	3456.5	3464.5
17.5°	7243.2	6956.8	5912.7	4635.9	3876.2	3536.1	3341.2	3305.4	3329.2	3365.0	3379.0
20°	7338.6	6903.1	5503.0	4142.7	3565.9	3283.5	3202.0	3225.8	3283.5	3335.2	3353.1
22.5°	7406.3	6805.6	5007.8	3758.8	3297.4	3138.3	3134.3	3184.1	3215.9	3241.7	3255.7
25°	7465.9	6640.6	4482.7	3436.6	3076.7	3050.8	3094.6	3078.7	3056.8	3078.7	3092.6
27.5°	7509.7	6380.0	4013.4	3154.2	2921.5	2991.1	2965.3	2929.5	2927.5	2939.4	2959.3
30°	7495.8	6032.0	3627.6	2885.7	2812.2	2879.8	2818.1	2812.2	2806.2	2812.2	2834.0
32.5°	7495.8	5636.2	3331.2	2700.8	2742.5	2716.7	2710.7	2696.8	2672.9	2670.9	2696.8
35°	7537.5	5240.5	3076.7	2601.3	2684.9	2623.2	2627.2	2593.4	2543.7	2519.8	2543.7
37.5°	7623.0	4922.3	2824.1	2553.6	2583.4	2581.5	2565.5	2507.9	2420.4	2344.8	2370.6
40°	7829.9	4828.8	2651.1	2531.7	2535.7	2559.6	2517.8	2406.4	2207.6	2084.3	2100.2
42.5°	8154.1	4985.9	2613.3	2478.0	2503.9	2527.8	2446.2	2187.7	2046.5	1972.9	1972.9
45°	8565.7	5260.4	2694.8	2400.5	2428.3	2470.1	2227.4	2104.1	2040.5	2042.5	2052.4
47.5°	9086.8	5548.7	2846.0	2332.9	2318.9	2342.8	2082.3	2006.7	1919.2	1941.1	1996.7
50°	9689.4	5841.1	2989.2	2241.4	2197.6	2120.1	1988.8	1917.2	1805.8	1754.1	1768.0
52.5°	10341.7	6123.5	3046.8	2130.0	2066.4	1976.9	1925.2	1837.6	1702.4	1616.9	1614.9
55°	10960.2	6380.0	2983.2	1996.7	1935.1	1865.5	1857.5	1803.8	1658.7	1539.3	1539.3
57.5°	11544.9	6594.8	2824.1	1861.5	1801.8	1760.1	1813.8	1787.9	1605.0	1451.8	1443.9
60°	12040.2	6742.0	2593.4	1724.3	1682.5	1660.6	1742.2	1734.2	1529.4	1358.3	1352.4
62.5°	12433.9	6799.7	2338.8	1593.0	1583.1	1543.3	1642.7	1642.7	1433.9	1266.9	1260.9
65°	12742.2	6744.0	2080.3	1463.8	1483.6	1424.0	1521.4	1509.5	1332.5	1185.3	1177.4
67.5°	13014.7	6561.0	1793.9	1336.5	1382.2	1306.6	1394.1	1366.3	1221.1	1103.8	1095.8
70°	13136.0	6135.4	1467.7	1209.2	1264.9	1191.3	1266.9	1215.2	1095.8	1016.3	1000.4
72.5°	12161.5	5099.3	1155.5	1075.9	1123.7	1064.0	1129.6	1070.0	960.6	924.8	895.0
75°	10061.3	3826.4	889.0	930.8	966.6	920.8	964.6	920.8	821.4	847.2	773.6
77.5°	7306.8	2583.4	680.2	777.6	793.5	769.7	807.4	757.7	668.2	662.3	632.4
80°	3633.5	1513.5	533.0	614.5	608.6	592.7	636.4	612.5	537.0	568.8	562.8
82.5°	1052.1	648.3	387.8	431.6	419.6	423.6	455.4	467.4	700.1	694.1	710.0
85°	330.1	254.6	232.7	240.6	228.7	234.7	268.5	533.0	493.2	288.4	312.2
87.5°	85.5	87.5	57.7	61.7	63.6	75.6	85.5	324.2	155.1	101.4	107.4
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)