

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: P943982

Luminaire Tested: **GALN-SB8D-722-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943982
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8D-722-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67381 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

Input Watts (W): 584.9
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



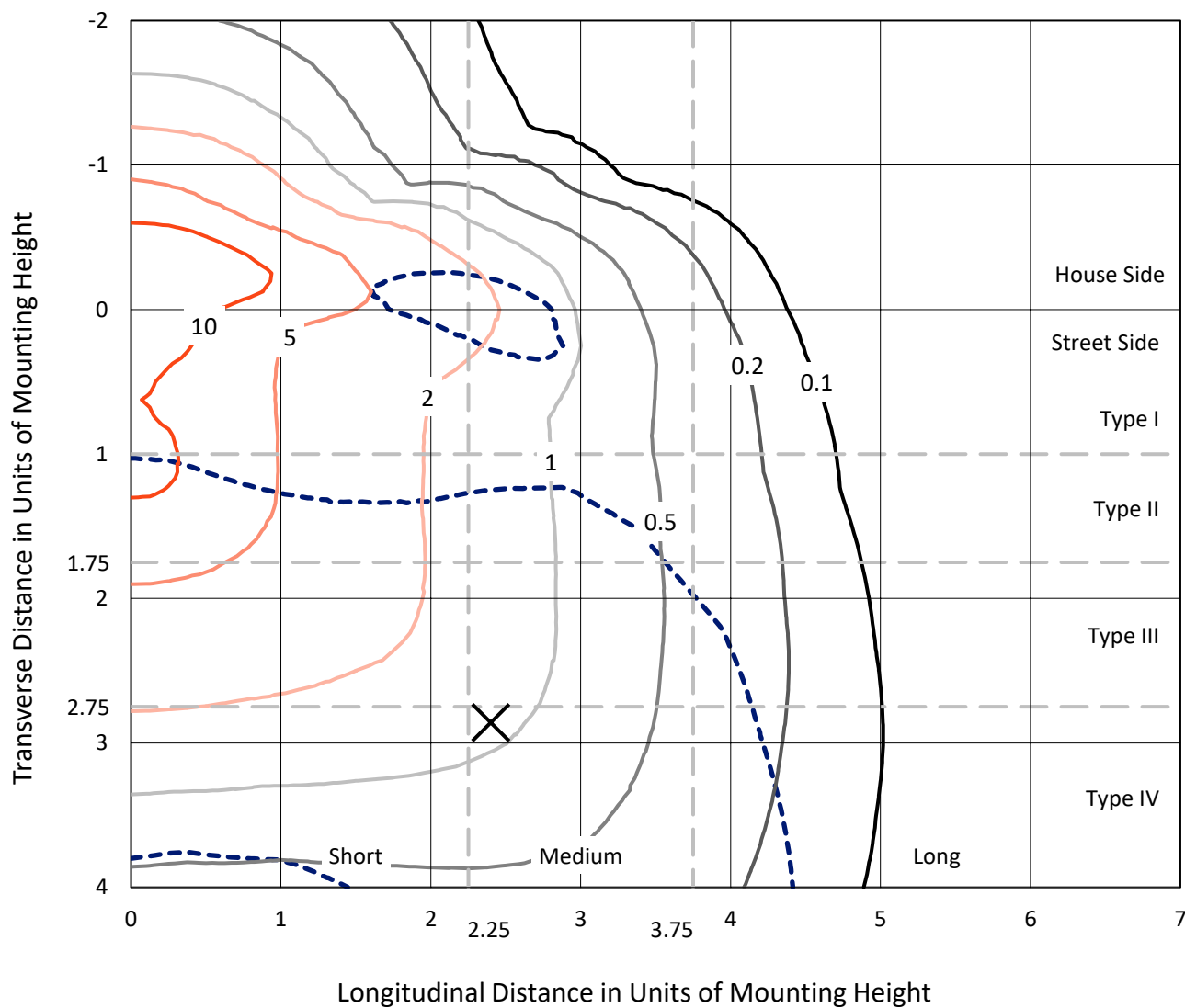
REPORT NUMBER: P943982

CATALOG NUMBER: GALN-SB8D-722-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

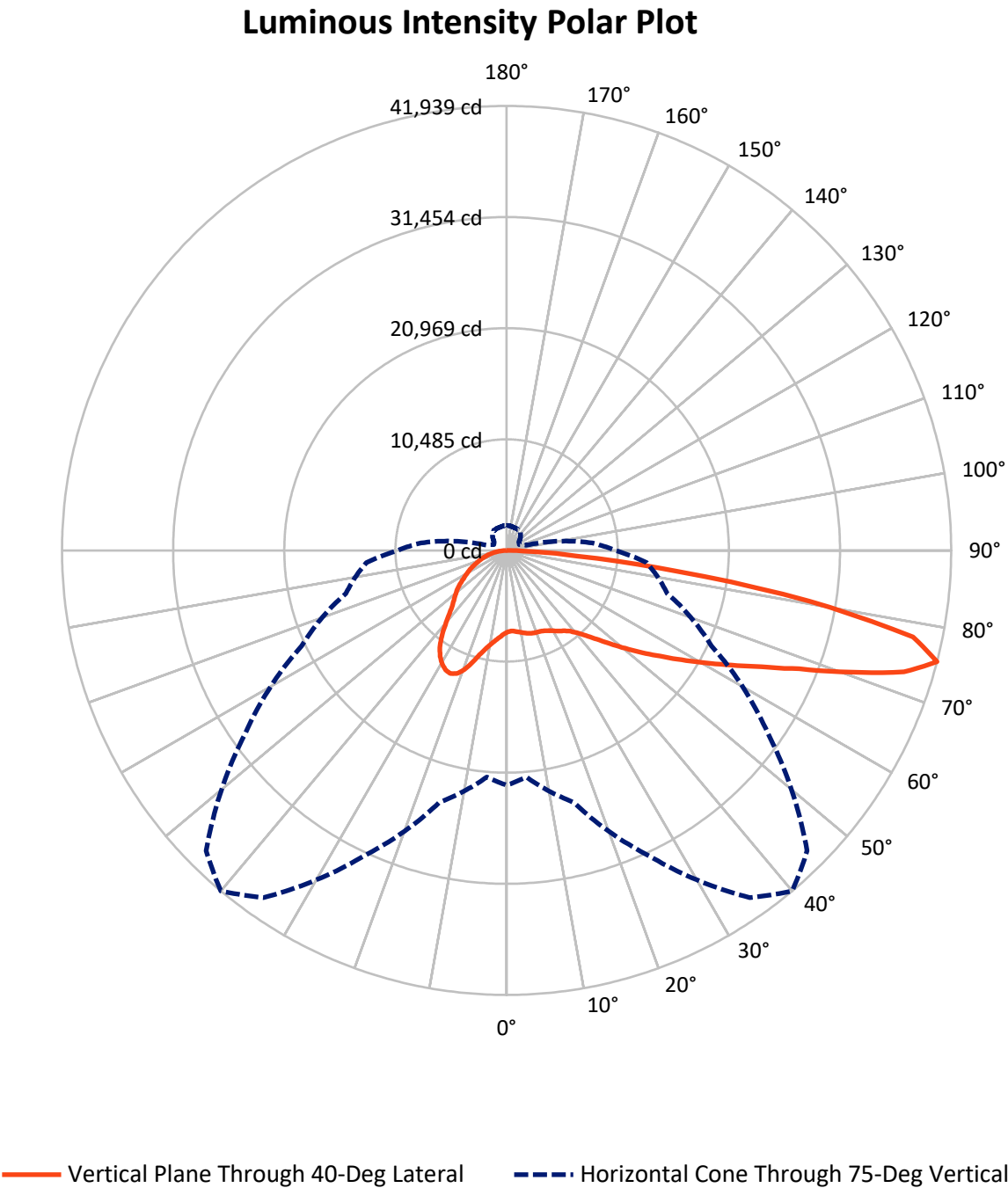
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
Type IV - Medium - N/A

REPORT NUMBER: P943982
CATALOG NUMBER: GALN-SB8D-722-U-SL4



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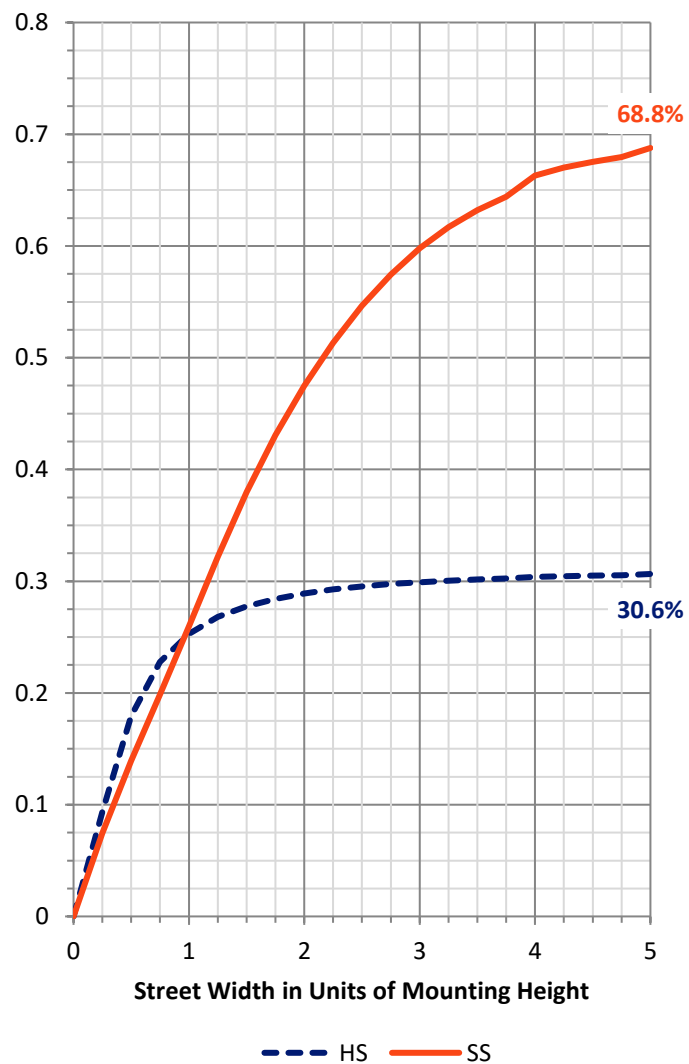
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20876.9	0.0	20876.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	46504.1	0.0	46504.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	67381.0	0.0	67381.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	769.1	1.1
10°-20°	2582.3	3.8
20°-30°	4715.0	7.0
30°-40°	6687.2	9.9
40°-50°	9029.7	13.4
50°-60°	12147.4	18.0
60°-70°	15417.9	22.9
70°-80°	13992.7	20.8
80°-90°	2039.7	3.0
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°	67381.0	100.0
0°-180°	67381.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943982

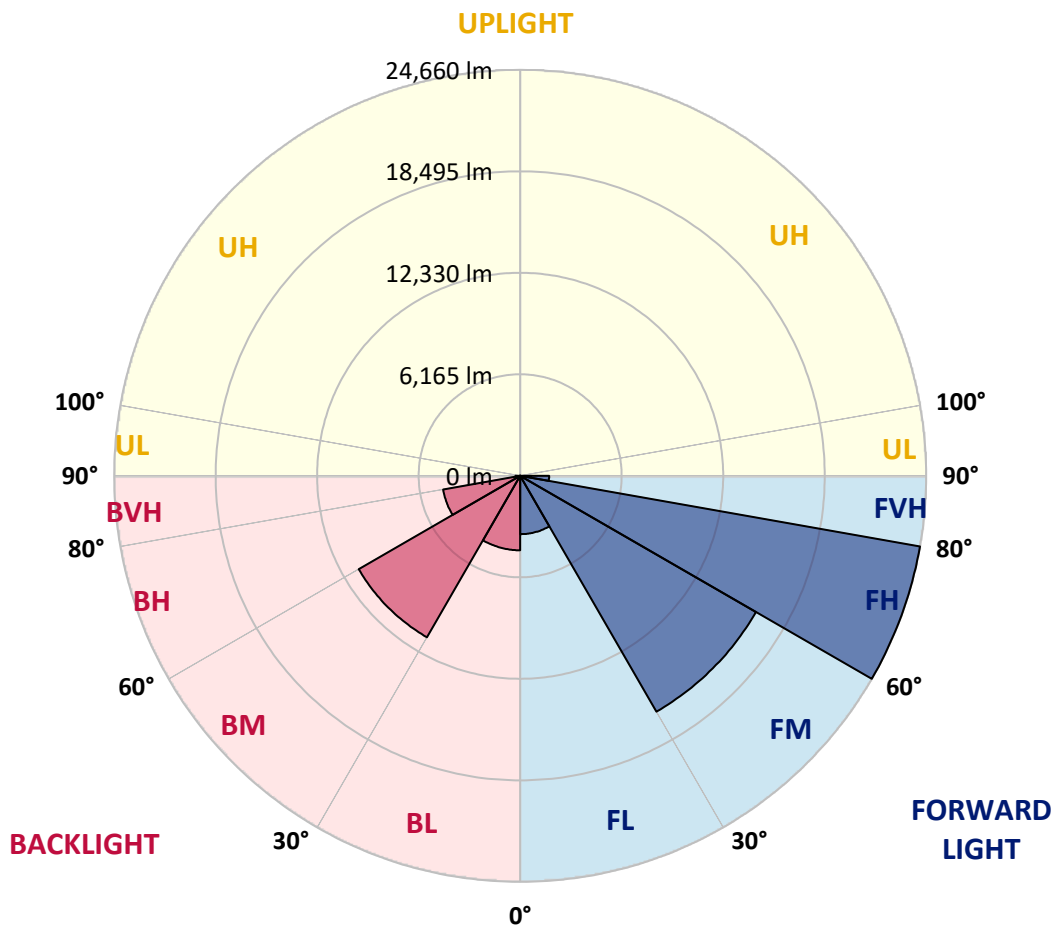
CATALOG NUMBER: GALN-SB8D-722-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3544.3	5.3			
FM	(30°-60°)	16540.5	24.5			
FH	(60°-80°)	24660.4	36.6			G5
FVH	(80°-90°)	1758.9	2.6			G5
BL	(0°-30°)	4522.1	6.7	B4/5000		
BM	(30°-60°)	11323.8	16.8	B5		
BH	(60°-80°)	4750.1	7.0	B4/5000		G4/5000
BVH	(80°-90°)	280.8	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Medium



REPORT NUMBER: P943982

CATALOG NUMBER: GALN-SB8D-722-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	7705.1	7705.1	7705.1	7705.1	7705.1	7705.1	7705.1	7705.1	7705.1	7705.1	7705.1
2.5°	7587.2	7630.1	7619.3	7605.0	7605.0	7608.6	7605.0	7630.1	7655.1	7680.1	7719.4
5°	7665.8	7708.7	7687.2	7669.4	7655.1	7651.5	7640.8	7637.2	7651.5	7683.7	7737.3
7.5°	7819.5	7862.4	7830.2	7798.0	7769.4	7755.1	7740.8	7719.4	7708.7	7726.5	7801.6
10°	7991.0	8033.9	7994.6	7937.4	7890.9	7873.1	7858.8	7837.3	7823.0	7833.8	7916.0
12.5°	8162.6	8205.4	8151.8	8073.2	8012.5	8001.7	7983.9	7976.7	7973.1	7969.6	8051.8
15°	8323.4	8359.1	8291.2	8198.3	8134.0	8116.1	8098.2	8108.9	8126.8	8148.3	8241.2
17.5°	8448.5	8484.2	8384.1	8262.6	8201.9	8194.7	8184.0	8219.7	8269.8	8323.4	8437.7
20°	8562.8	8598.6	8469.9	8305.5	8234.0	8234.0	8237.6	8312.7	8384.1	8462.8	8620.0
22.5°	8723.6	8752.2	8595.0	8369.8	8266.2	8273.3	8301.9	8377.0	8466.3	8573.5	8791.5
25°	8963.1	8984.5	8791.5	8491.3	8373.4	8394.9	8419.9	8455.6	8541.4	8666.5	8959.5
27.5°	9349.1	9366.9	9113.2	8705.8	8527.1	8562.8	8598.6	8573.5	8612.9	8720.1	9095.3
30°	9892.3	9903.0	9581.4	9041.7	8788.0	8805.8	8813.0	8709.3	8634.3	8720.1	9191.8
32.5°	10535.6	10532.0	10149.6	9449.1	9084.6	9066.7	9006.0	8802.3	8627.1	8702.2	9277.6
35°	11532.6	11493.3	11000.1	10020.9	9420.5	9309.7	9166.8	8905.9	8662.9	8684.3	9352.6
37.5°	13183.7	13062.2	12379.6	10957.3	9920.9	9638.5	9427.7	9073.9	8741.5	8677.2	9442.0
40°	15045.7	14892.0	14141.5	12240.3	10671.4	10217.5	9878.0	9313.3	8870.2	8709.3	9574.2
42.5°	17254.3	17036.3	16228.6	13752.0	11622.0	10964.4	10453.4	9617.1	9059.6	8813.0	9752.9
45°	19966.8	19677.3	18533.7	15456.7	12819.2	11943.6	11261.0	10078.1	9349.1	9013.1	10020.9
47.5°	22707.9	22779.4	21153.3	17408.0	14255.9	13151.6	12272.4	10771.4	9770.8	9334.8	10453.4
50°	25620.6	25670.6	23758.6	19570.1	15885.5	14516.8	13408.9	11546.9	10356.9	9792.2	11100.2
52.5°	27893.5	27900.6	26124.5	21832.3	17583.1	16017.8	14634.7	12433.2	11035.9	10399.8	11961.5
55°	29315.9	29298.0	27782.7	23973.0	19534.4	17593.8	15992.7	13441.1	11865.0	11114.5	13044.4
57.5°	30348.7	30295.1	28926.3	25813.5	21614.3	19455.8	17529.5	14584.7	12844.2	11965.1	14470.3
60°	30741.8	30709.6	29701.8	27403.9	23801.5	21514.3	19302.1	15864.1	13955.7	12969.3	16303.7
62.5°	30891.9	30952.7	30463.0	28944.2	26142.3	23794.3	21249.8	17393.7	15206.5	14105.8	18237.1
65°	31420.8	31531.6	31431.5	30959.8	28786.9	26464.0	23833.7	19212.7	16571.7	15324.4	20256.3
67.5°	32467.9	32578.7	32621.6	33372.1	32017.7	29791.2	27057.2	21478.5	18169.2	16589.6	21775.1
70°	32442.9	32410.8	33168.4	35291.2	36063.2	34397.8	31403.0	24266.1	20074.0	17640.3	21968.1
72.5°	29530.3	29273.0	31063.4	35269.8	39429.7	39208.1	36710.0	27861.3	21718.0	17768.9	19062.6
75°	22154.0	21467.8	24630.6	31785.4	39990.8	41938.5	40083.7	30091.4	21328.4	15699.7	13265.9
77.5°	9474.1	8784.4	12511.9	23529.9	35791.6	39204.6	36988.8	26253.1	17025.6	10381.9	6515.0
80°	2480.2	2476.6	3781.1	10667.8	24341.1	28951.3	25399.0	16954.1	9727.9	3709.6	1797.6
82.5°	1025.7	1000.7	1390.2	4149.2	11893.6	16246.5	13258.8	7562.2	3513.0	1004.2	596.8
85°	382.4	378.8	675.4	1433.1	4195.6	6700.9	4849.6	1933.4	875.6	489.6	268.0
87.5°	107.2	103.6	146.5	496.8	1022.1	1551.0	829.1	318.1	246.6	193.0	78.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943982

CATALOG NUMBER: GALN-SB8D-722-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7705.1	7705.1	7705.1	7705.1	7705.1	7705.1	7705.1	7705.1	7705.1	7705.1	7705.1
2.5°	7730.1	7748.0	7780.2	7805.2	7837.3	7873.1	7923.1	7955.3	7987.4	8008.9	7994.6
5°	7762.3	7801.6	7883.8	7966.0	8062.5	8151.8	8255.5	8330.5	8391.3	8409.1	8416.3
7.5°	7833.8	7898.1	8037.5	8176.8	8330.5	8477.0	8627.1	8755.8	8859.4	8898.8	8902.3
10°	7958.8	8044.6	8241.2	8437.7	8641.4	8866.6	9059.6	9245.4	9391.9	9452.7	9456.3
12.5°	8116.1	8223.3	8480.6	8752.2	9034.6	9345.5	9595.6	9824.4	10006.6	10088.8	10088.8
15°	8319.8	8459.2	8788.0	9152.5	9567.1	9999.5	10317.6	10571.3	10775.0	10875.1	10867.9
17.5°	8541.4	8727.2	9141.8	9692.1	10285.4	10853.6	11225.3	11411.1	11622.0	11718.5	11714.9
20°	8755.8	8984.5	9577.8	10378.3	11168.1	11772.1	12072.3	12122.3	12136.6	12147.3	12175.9
22.5°	8977.4	9284.7	10124.6	11243.2	12090.2	12508.3	12551.2	12336.7	12036.5	11897.2	11936.5
25°	9220.4	9627.8	10839.3	12197.4	12883.5	12933.6	12604.8	12083.0	11514.8	11253.9	11293.2
27.5°	9456.3	10024.5	11697.0	13108.7	13455.3	13015.8	12308.2	11568.4	10882.2	10607.0	10639.2
30°	9692.1	10478.4	12644.1	13905.6	13716.2	12812.1	11840.0	11014.4	10324.7	10035.2	10067.4
32.5°	9931.6	11007.3	13734.1	14481.0	13669.8	12379.6	11257.5	10392.6	9785.1	9481.3	9520.6
35°	10203.2	11657.7	14766.9	14795.5	13358.9	11743.5	10489.1	9649.3	9120.3	8877.3	8930.9
37.5°	10557.0	12483.3	15678.2	14874.1	12815.6	10810.7	9534.9	8770.1	8334.1	8223.3	8301.9
40°	10996.6	13476.8	16375.1	14749.1	12011.5	9677.8	8491.3	7880.2	7633.6	7658.6	7744.4
42.5°	11568.4	14588.2	16864.7	14427.4	10892.9	8509.2	7576.5	7304.8	7422.8	7522.8	7615.8
45°	12311.7	15742.6	17168.5	13880.6	9627.8	7519.3	7036.8	7101.1	7190.5	7201.2	7272.7
47.5°	13262.4	16911.2	17368.7	13055.1	8337.7	6822.4	6693.7	6708.0	6690.1	6615.1	6672.3
50°	14448.9	18047.7	17547.3	11961.5	7240.5	6386.4	6214.8	6164.8	5918.2	5675.2	5707.4
52.5°	15799.8	19091.2	17622.4	10603.5	6386.4	6021.8	5743.1	5428.6	4967.6	4892.5	4917.5
55°	17300.8	20056.2	17429.4	8934.5	5668.0	5553.7	5132.0	4753.2	4703.1	4638.8	4649.5
57.5°	19094.8	21096.1	17036.3	7072.5	4931.8	5006.9	4595.9	4638.8	4549.4	4449.4	4431.5
60°	21056.8	22171.8	16346.5	5375.0	4170.6	4324.3	4456.5	4453.0	4427.9	4345.7	4317.1
62.5°	22822.3	22879.5	14988.5	4117.0	3502.3	3795.4	4156.3	4152.8	4131.3	4084.9	4067.0
65°	23873.0	22772.2	12722.7	3241.4	2952.0	3359.4	3748.9	3777.5	3781.1	3777.5	3777.5
67.5°	23687.1	21517.8	9613.5	2580.3	2498.1	2916.2	3345.1	3384.4	3413.0	3420.1	3427.3
70°	21585.7	18762.4	6268.4	2058.5	2094.2	2526.7	2962.7	3002.0	3027.0	3055.6	3069.9
72.5°	16825.4	13794.9	3588.1	1665.4	1740.4	2190.7	2583.9	2630.3	2644.6	2698.2	2719.7
75°	10253.2	8112.5	1937.0	1311.6	1429.5	1872.7	2208.6	2262.2	2287.2	2351.6	2358.7
77.5°	4874.7	3513.0	1104.3	1022.1	1150.8	1529.6	1865.5	1926.3	1858.4	1894.1	1865.5
80°	1647.5	1304.4	696.9	779.1	879.2	1193.6	1493.8	1554.6	1411.6	1404.5	1390.2
82.5°	575.4	528.9	443.2	518.2	568.2	854.1	1129.3	1207.9	1050.7	1047.1	997.1
85°	225.1	214.4	246.6	282.3	339.5	525.3	743.3	782.7	646.9	521.8	514.6
87.5°	46.5	50.0	60.8	64.3	103.6	182.3	268.0	328.8	260.9	221.6	203.7
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)