

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: P647496

Luminaire Tested: **GALN-SA6D-835-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647496
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-835-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35601.4 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

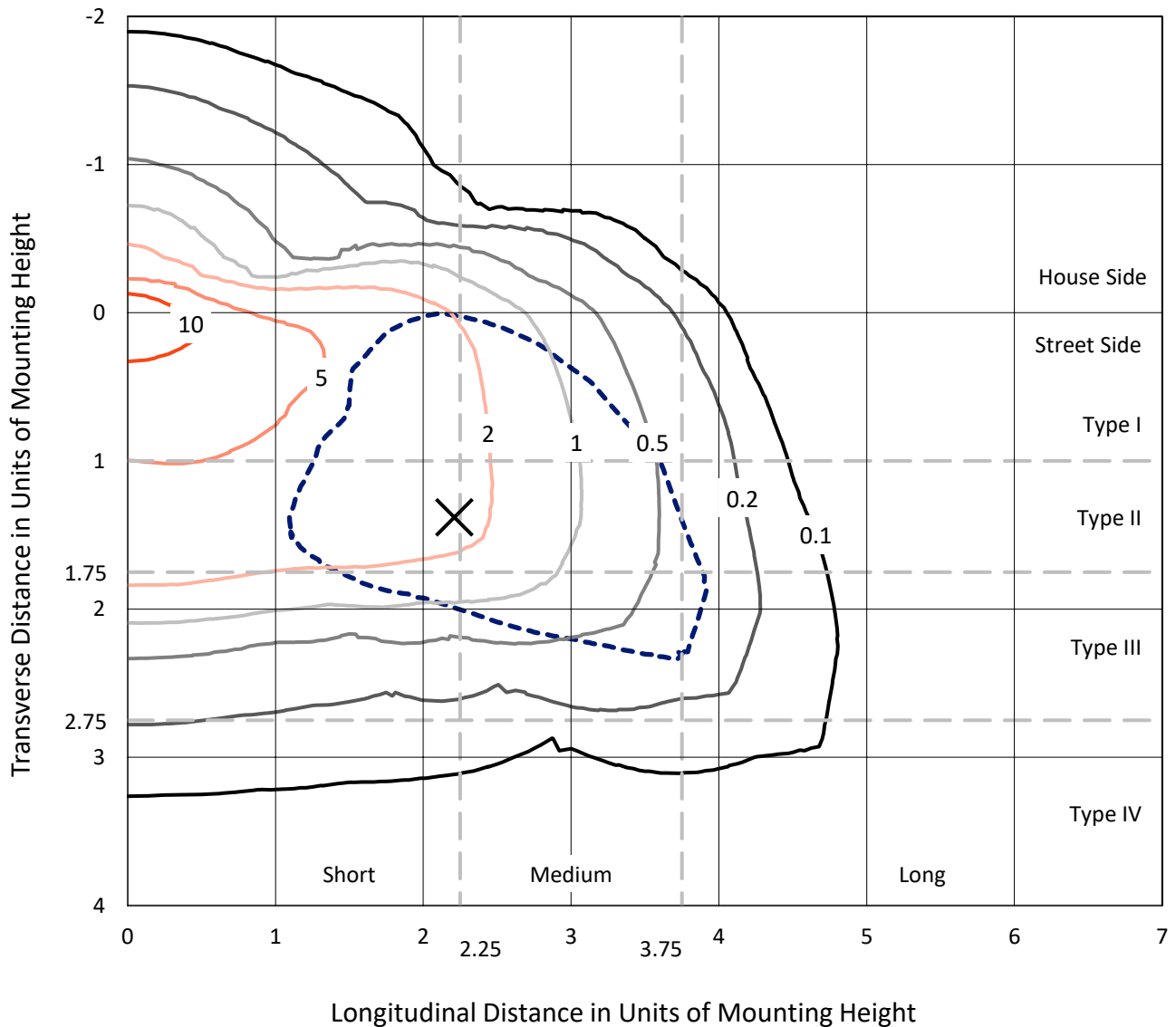
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647496
 CATALOG NUMBER: GALN-SA6D-835-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

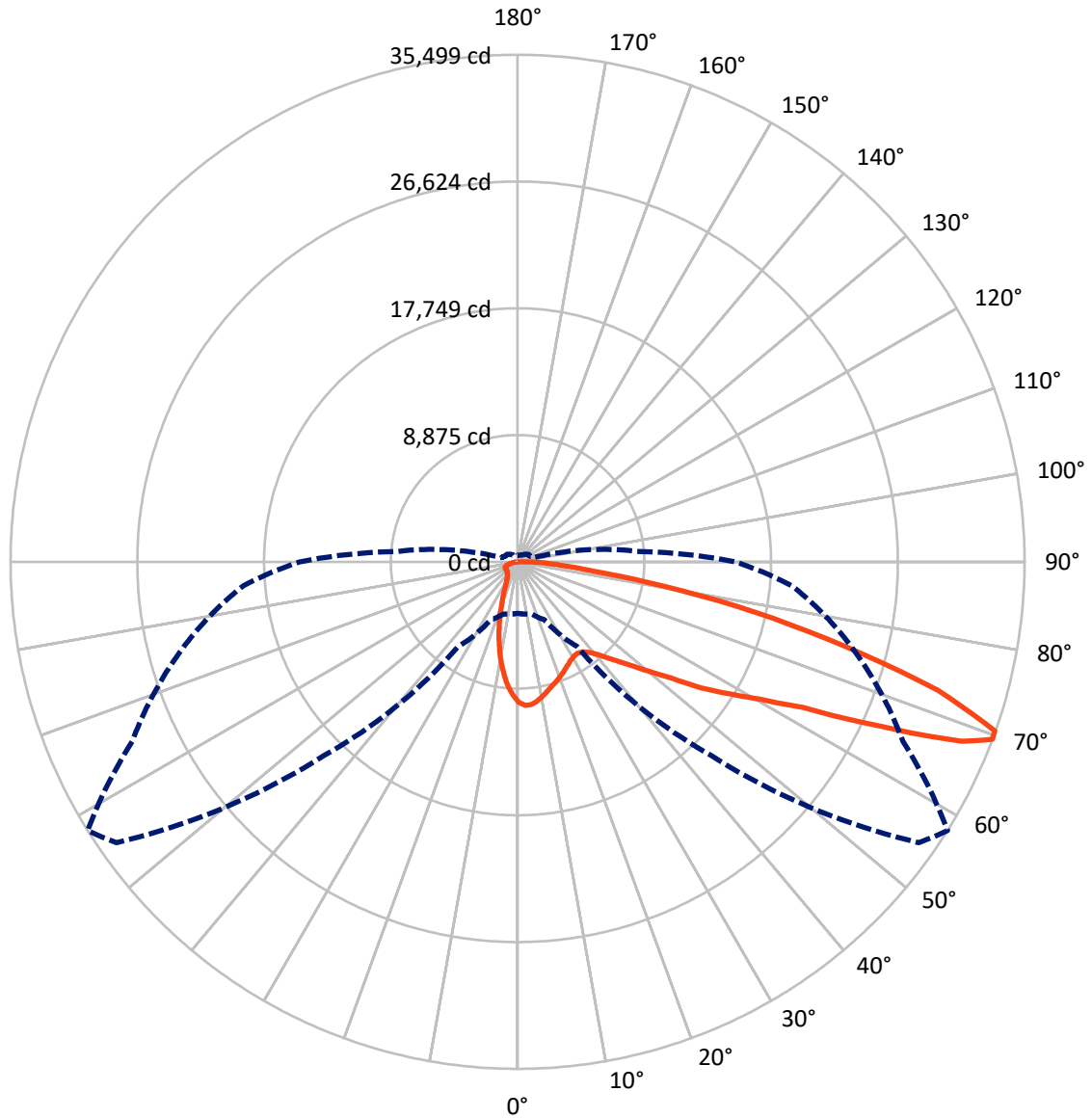
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
 Type III - Short - N/A

REPORT NUMBER: P647496
CATALOG NUMBER: GALN-SA6D-835-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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 CATALOG NUMBER: GALN-SA6D-835-U-SL3

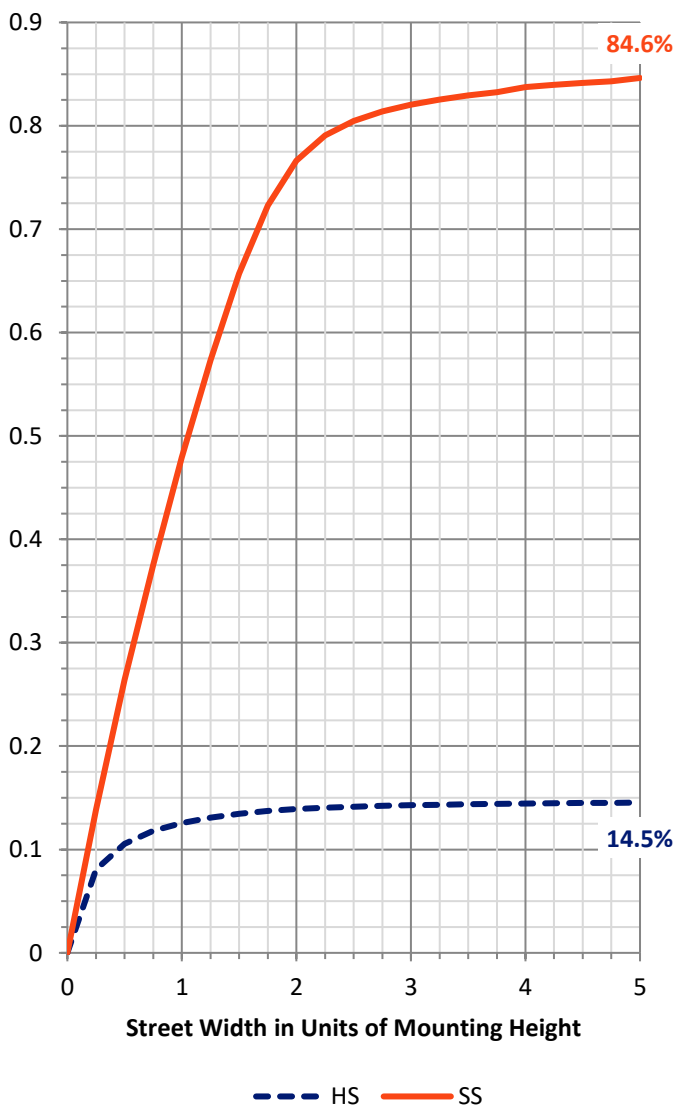
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5217.4	0.0	5217.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	30384.1	0.0	30384.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	35601.4	0.0	35601.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	835.5	2.3
10°-20°	1834.6	5.2
20°-30°	2370.3	6.7
30°-40°	3078.6	8.6
40°-50°	4475.9	12.6
50°-60°	7142.0	20.1
60°-70°	9540.8	26.8
70°-80°	5499.9	15.4
80°-90°	823.8	2.3
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°	35601.4	100.0
0°-180°	35601.4	100.0

Coefficient of Utilization

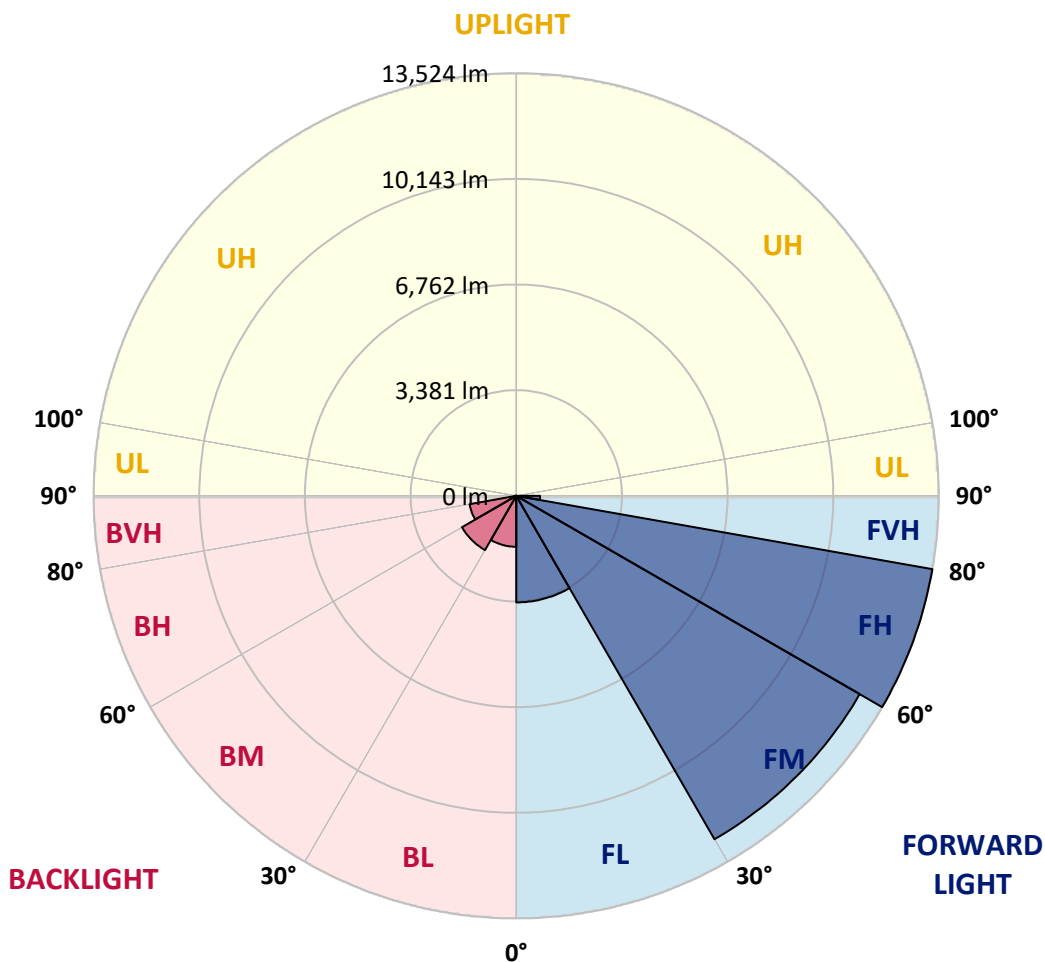


REPORT NUMBER: P647496
 CATALOG NUMBER: GALN-SA6D-835-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3409.7	9.6			
FM (30°-60°)	12690.1	35.6			
FH (60°-80°)	13523.6	38.0			G5
FVH (80°-90°)	760.7	2.1			G5
BL (0°-30°)	1630.7	4.6	B3/2500		
BM (30°-60°)	2006.4	5.6	B2/2500		
BH (60°-80°)	1517.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	63.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9838.2	9838.2	9838.2	9838.2	9838.2	9838.2	9838.2	9838.2	9838.2	9838.2	9838.2
2.5°	10203.5	10231.3	10223.3	10213.5	10197.6	10153.9	10082.4	10070.5	10024.8	9927.5	9806.4
5°	10046.6	10070.5	10072.4	10086.4	10106.2	10098.3	10046.6	10040.6	9973.1	9842.2	9639.6
7.5°	9508.6	9540.3	9609.8	9687.3	9756.7	9822.3	9838.2	9848.1	9806.4	9655.5	9385.4
10°	8903.0	8934.7	8966.5	9081.7	9252.4	9415.3	9550.3	9568.1	9578.0	9439.1	9109.5
12.5°	8231.9	8297.4	8364.9	8535.6	8764.0	9020.2	9258.4	9296.1	9363.6	9258.4	8871.2
15°	7662.0	7729.5	7826.9	7979.7	8255.7	8625.0	8960.6	9022.1	9155.1	9101.5	8648.9
17.5°	7266.9	7290.7	7358.2	7533.0	7830.8	8219.9	8668.7	8791.8	9004.3	8990.3	8458.2
20°	6955.2	6985.0	7026.7	7133.9	7443.7	7854.7	8396.7	8555.5	8843.4	8891.0	8269.6
22.5°	6824.2	6846.0	6840.1	6897.6	7108.1	7521.1	8120.7	8309.4	8700.5	8823.5	8094.9
25°	6832.1	6852.0	6822.2	6808.3	6933.4	7227.2	7832.8	8073.0	8585.3	8777.9	7936.0
27.5°	6965.1	6979.0	6923.4	6867.8	6877.8	7044.6	7594.6	7860.6	8488.0	8797.8	7803.0
30°	7143.9	7169.6	7133.9	7066.4	6992.9	7000.9	7441.6	7703.8	8442.4	8867.2	7739.5
32.5°	7374.1	7397.9	7382.1	7328.5	7233.2	7128.0	7404.0	7646.2	8446.3	9008.2	7725.5
35°	7616.4	7664.0	7689.8	7685.8	7608.4	7425.7	7552.8	7753.3	8541.6	9244.5	7807.0
37.5°	7890.4	7930.1	8041.3	8112.7	8041.3	7828.8	7888.4	8027.4	8752.1	9586.0	7985.7
40°	8156.4	8216.0	8378.8	8601.2	8573.4	8386.8	8400.7	8491.9	9123.4	10094.3	8335.1
42.5°	8434.4	8505.9	8789.8	9119.4	9184.9	9040.0	9077.7	9159.1	9651.5	10799.1	8934.7
45°	8791.8	8877.2	9226.6	9637.6	9895.7	9806.4	9913.6	9953.3	10358.4	11716.4	9725.0
47.5°	9252.4	9351.7	9782.6	10294.8	10660.2	10741.6	10928.2	10904.4	11233.9	12802.5	10749.5
50°	10028.7	10084.3	10491.4	11013.6	11515.9	11883.2	12085.8	12123.5	12320.0	13858.8	11895.1
52.5°	10952.1	11001.6	11295.5	11752.2	12381.6	13159.9	13660.2	13537.1	13584.8	15145.4	13235.4
55°	11990.5	12073.9	12260.4	12564.3	13380.3	14525.9	15530.6	15560.4	15032.2	16376.4	14520.0
57.5°	12794.5	12935.6	13255.2	13688.0	14722.5	16044.8	17395.0	17414.9	16739.8	17690.8	15937.6
60°	12389.5	12556.3	13287.0	14341.3	16483.6	18695.5	19622.7	19509.5	18401.6	19187.9	17667.0
62.5°	10642.3	10672.1	11734.3	13382.3	17025.6	22241.6	22938.5	22460.0	20619.4	21086.0	19424.1
65°	6887.7	7082.3	7924.1	10233.3	15244.7	24209.2	28748.1	27642.2	23728.7	23240.3	20895.4
67.5°	4348.2	4298.6	4648.0	5843.3	10485.5	22475.9	33705.9	33531.1	27795.0	24600.4	20544.0
69°	3605.6	3661.2	3780.4	4479.3	7215.3	19189.8	34291.6	35498.8	29766.6	24493.1	19267.3
70°	3270.1	3296.0	3421.0	3971.0	5567.4	16072.6	33330.6	35445.2	30541.0	24044.4	18342.1
72.5°	2595.0	2593.1	2807.5	3303.9	4161.6	9175.0	27368.1	30773.3	29675.3	21955.6	15155.4
75°	1971.6	2003.4	2239.6	2795.6	3834.0	5013.4	19098.5	23698.9	23700.9	17341.3	9456.9
77.5°	1421.6	1441.5	1717.4	2346.9	3611.6	4064.3	12721.1	16997.8	15979.3	7946.0	2972.3
80°	931.2	943.1	1153.6	1858.5	3256.2	3834.0	7543.0	10404.0	7536.9	2108.6	982.8
82.5°	510.3	569.9	704.9	1203.2	2612.9	3542.1	4584.5	5265.5	2827.3	939.1	512.2
85°	256.1	272.0	397.1	702.9	1707.6	2930.6	3192.7	3020.0	1459.4	466.6	266.1
87.5°	75.5	95.3	164.8	272.0	693.0	1526.9	1777.0	1594.3	561.9	168.7	55.6
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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CATALOG NUMBER: GALN-SA6D-835-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9838.2	9838.2	9838.2	9838.2	9838.2	9838.2	9838.2	9838.2	9838.2	9838.2	9838.2
2.5°	9756.7	9721.0	9562.2	9419.2	9288.2	9149.2	9032.1	8928.8	8938.7	8940.7	8835.5
5°	9534.4	9453.0	9151.2	8869.2	8631.0	8329.2	8071.1	7904.3	7820.9	7709.7	7749.4
7.5°	9232.6	9075.8	8656.8	8188.2	7749.4	7358.2	6933.4	6641.5	6454.9	6274.2	6298.0
10°	8920.9	8668.7	8059.2	7439.7	6871.8	6246.4	5704.3	5239.8	4894.2	4765.2	4679.8
12.5°	8601.2	8269.6	7495.3	6671.3	5887.0	5138.4	4370.1	3871.7	3490.5	3288.0	3313.8
15°	8309.4	7906.3	6907.5	5902.9	4884.4	3992.8	3226.4	2751.9	2485.9	2430.3	2462.0
17.5°	8039.3	7511.2	6357.6	5156.4	3967.0	2994.1	2424.3	2156.2	2049.0	2019.3	2017.2
20°	7761.3	7175.6	5740.1	4358.2	3091.4	2321.0	1989.4	1864.4	1844.5	1856.4	1858.5
22.5°	7479.4	6760.7	5104.7	3565.9	2462.0	1898.1	1739.3	1705.5	1721.4	1749.2	1753.2
25°	7219.3	6395.3	4493.2	2871.0	1965.6	1667.8	1590.4	1590.4	1626.1	1667.8	1669.8
27.5°	7004.9	6041.9	3883.6	2279.4	1645.9	1501.0	1475.3	1489.1	1538.8	1570.5	1572.5
30°	6828.2	5712.3	3307.9	1826.7	1447.5	1368.0	1362.0	1385.9	1421.6	1451.4	1453.4
32.5°	6695.1	5422.4	2769.8	1534.8	1310.4	1266.7	1264.8	1282.6	1302.5	1310.4	1318.3
35°	6643.5	5182.1	2277.4	1350.1	1219.1	1191.3	1191.3	1189.3	1197.3	1201.2	1205.2
37.5°	6685.2	4997.5	1896.2	1231.0	1151.6	1131.7	1119.8	1107.9	1104.0	1104.0	1105.9
40°	6861.9	4900.2	1612.2	1153.6	1104.0	1074.1	1052.4	1038.4	1024.6	1028.5	1032.5
42.5°	7237.1	4918.1	1419.7	1101.9	1062.2	1020.6	988.8	972.9	962.9	974.9	972.9
45°	7834.8	5096.8	1296.6	1066.2	1020.6	966.9	937.2	921.3	921.3	939.1	945.1
47.5°	8670.7	5438.2	1231.0	1038.4	988.8	925.3	895.4	883.5	887.5	917.3	919.3
50°	9691.2	6031.9	1219.1	1024.6	972.9	895.4	861.7	849.8	859.7	891.5	895.4
52.5°	10817.0	6796.4	1276.7	1026.5	959.0	877.6	833.9	816.0	826.0	851.7	859.7
55°	12151.3	7753.3	1425.6	1034.4	939.1	867.6	814.1	774.3	786.3	804.1	806.1
57.5°	13513.3	8960.6	1687.7	1036.5	923.2	849.8	780.3	728.7	728.7	740.6	746.5
60°	15177.2	10275.0	2033.1	1038.4	925.3	824.0	734.6	677.1	669.2	675.1	677.1
62.5°	16829.1	11375.0	2090.8	1032.5	945.1	798.2	685.0	625.5	611.5	609.6	605.6
65°	17557.8	11170.4	1713.5	1004.7	966.9	782.3	645.3	575.8	551.9	544.0	544.0
67.5°	16370.4	9449.0	1288.6	966.9	953.1	766.4	607.5	534.1	506.3	490.4	490.4
69°	15254.6	8404.6	1157.5	941.2	917.3	740.6	583.7	512.2	478.5	460.6	454.7
70°	14392.9	7685.8	1101.9	919.3	883.5	710.8	565.9	496.3	458.7	438.8	434.8
72.5°	11486.1	6030.0	965.0	835.9	752.5	597.7	502.3	446.7	411.0	389.2	383.2
75°	6619.6	3268.2	800.1	726.7	605.6	464.6	424.9	389.2	361.4	341.5	335.5
77.5°	2037.1	1262.7	579.7	573.8	444.7	359.4	339.5	325.6	305.8	283.9	279.9
80°	857.7	643.3	393.1	387.2	295.8	250.2	244.2	242.3	234.3	216.4	210.5
82.5°	470.6	363.3	274.0	238.3	178.7	144.9	150.9	152.9	146.9	129.0	117.1
85°	230.3	198.6	133.0	107.2	81.4	51.6	49.6	59.6	55.6	39.7	43.7
87.5°	45.6	55.6	35.7	15.9	7.9	0.0	0.0	0.0	0.0	0.0	0.0
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)