

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: P531143

Luminaire Tested: **GALN-SA6B-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-830-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15650 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 243
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

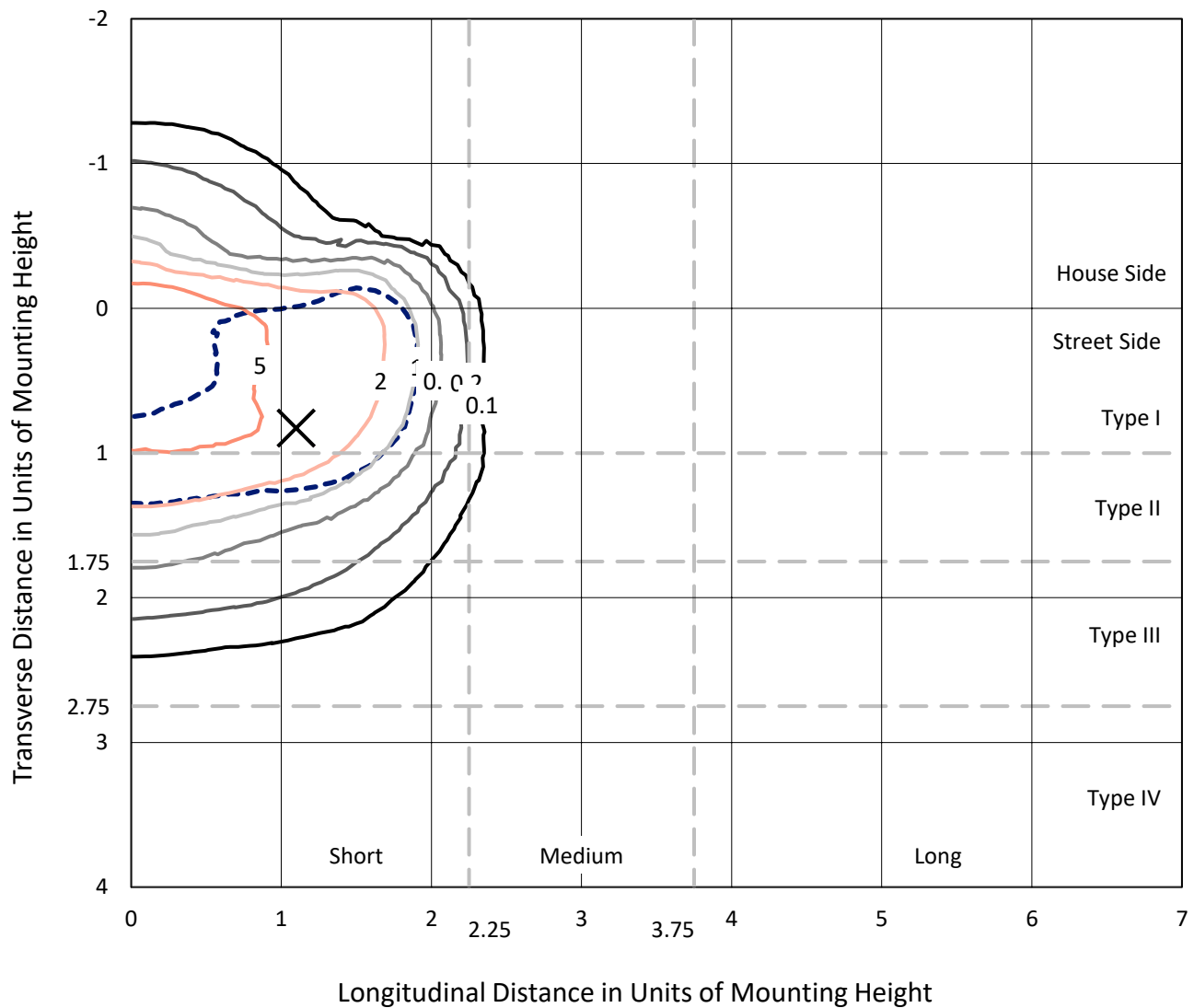


REPORT NUMBER: P531143

CATALOG NUMBER: GALN-SA6B-830-U-SL2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

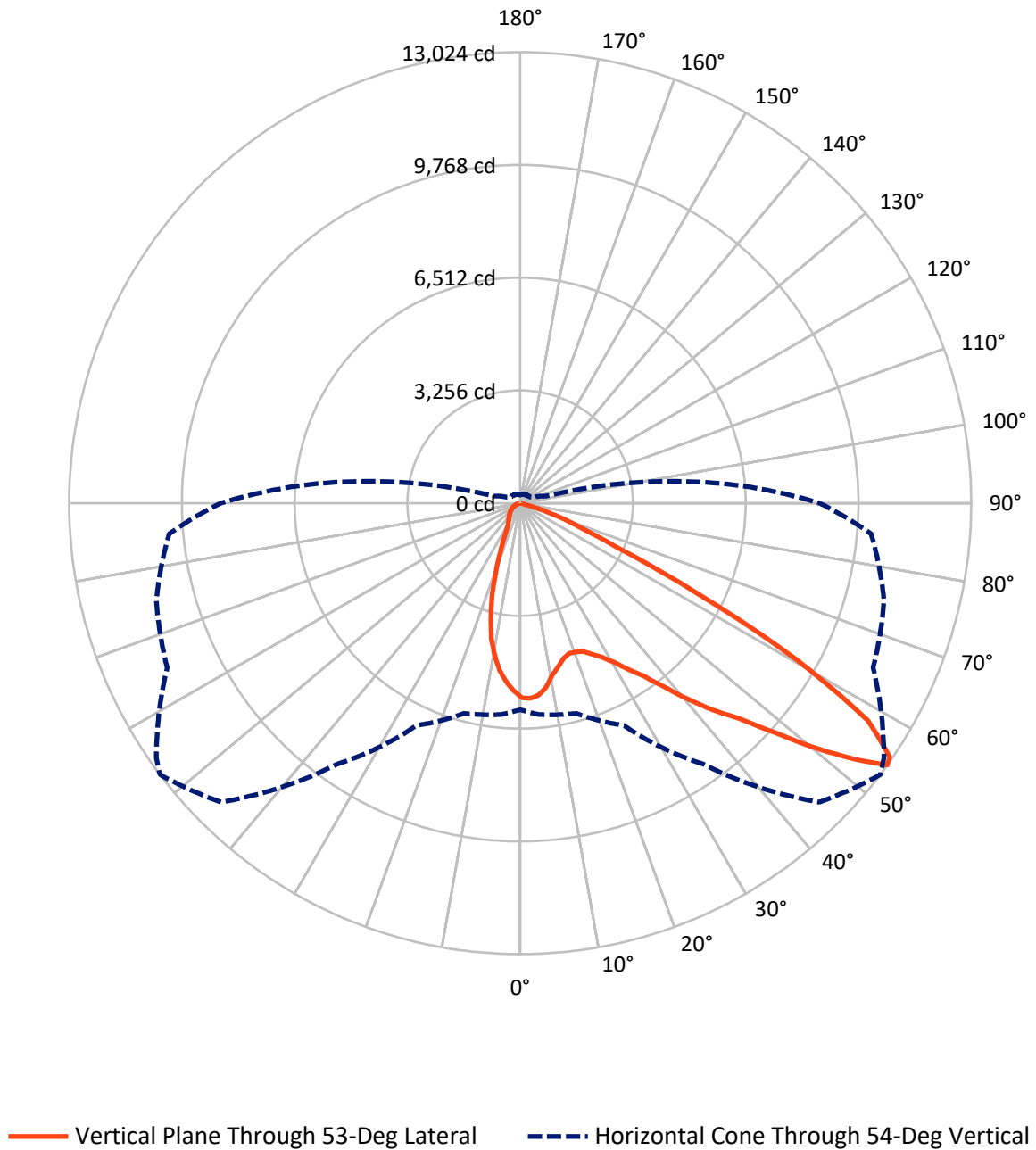


Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - N/A

REPORT NUMBER: P531143

CATALOG NUMBER: GALN-SA6B-830-U-SL2-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P531143

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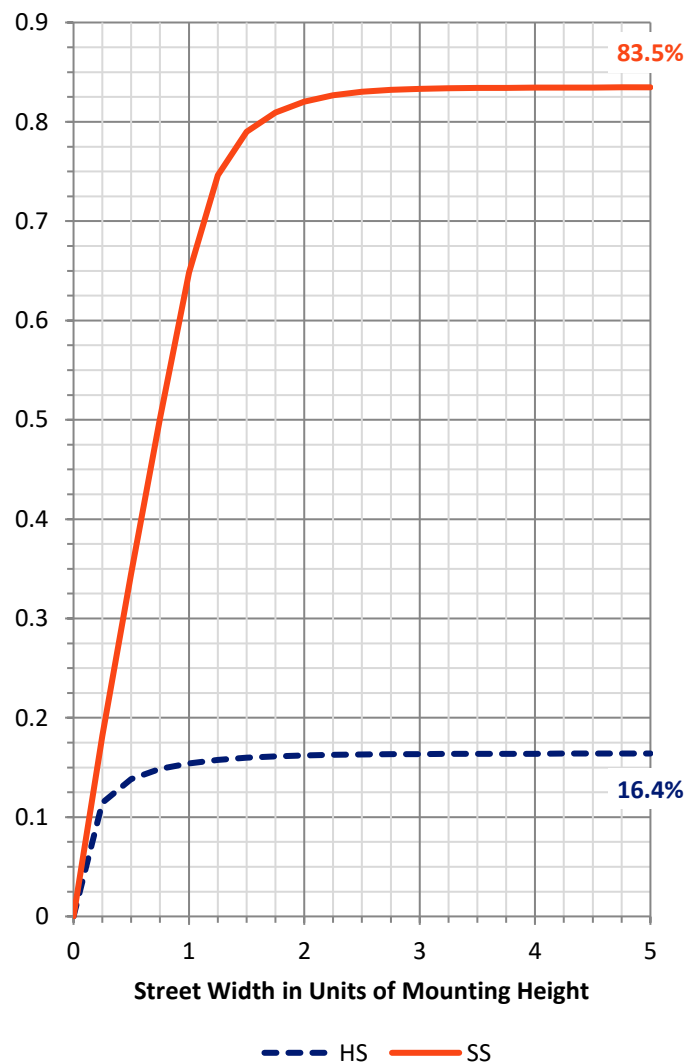
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2589.3	0.0	2589.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	13060.7	0.0	13060.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	15650.0	0.0	15650.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.3	3.1
10°-20°	1105.7	7.1
20°-30°	1571.5	10.0
30°-40°	2425.2	15.5
40°-50°	3802.5	24.3
50°-60°	4417.1	28.2
60°-70°	1669.1	10.7
70°-80°	158.7	1.0
80°-90°	17.9	0.1
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°	15650.0	100.0
0°-180°	15650.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531143

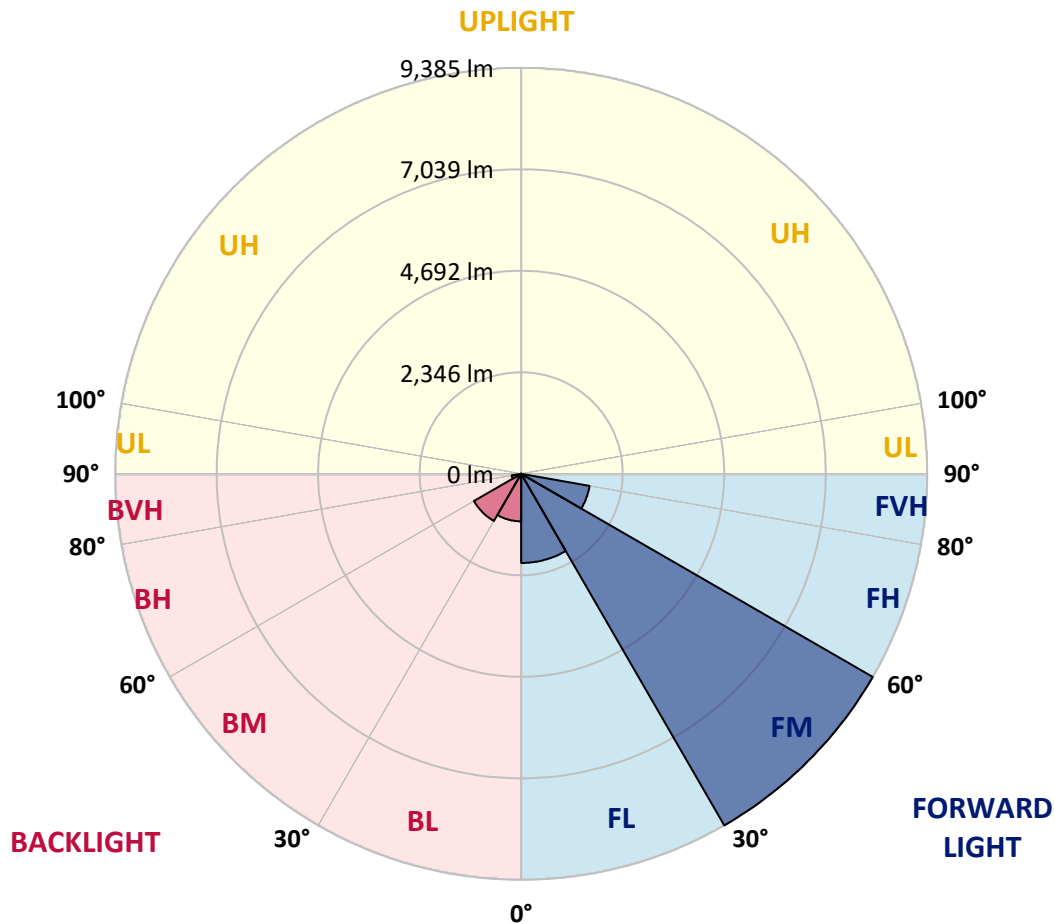
CATALOG NUMBER: GALN-SA6B-830-U-SL2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2060.7	13.2			
FM	(30°-60°)	9384.8	60.0			
FH	(60°-80°)	1605.9	10.3			G1/1800
FVH	(80°-90°)	9.2	0.1			G0/10
BL	(0°-30°)	1098.8	7.0	B3/2500		
BM	(30°-60°)	1260.0	8.1	B2/2500		
BH	(60°-80°)	221.8	1.4	B1/500		G1/500
BVH	(80°-90°)	8.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short



REPORT NUMBER: P531143

CATALOG NUMBER: GALN-SA6B-830-U-SL2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5621.2	5621.2	5621.2	5621.2	5621.2	5621.2	5621.2	5621.2	5621.2	5621.2	5621.2
2.5°	5592.1	5542.5	5592.1	5597.9	5632.9	5664.9	5644.5	5691.2	5664.9	5635.8	5627.0
5°	5140.1	5207.2	5210.1	5315.1	5291.8	5484.2	5568.7	5545.4	5688.3	5679.5	5659.1
7.5°	4734.9	4708.6	4743.6	4866.1	5020.6	5242.2	5364.6	5361.7	5565.8	5711.6	5697.0
10°	4358.8	4355.9	4428.7	4525.0	4656.2	4889.4	5058.5	5143.1	5460.9	5682.4	5714.5
12.5°	4105.1	4093.5	4172.2	4250.9	4457.9	4638.7	4854.4	4895.2	5259.7	5580.4	5632.9
15°	3938.9	3965.2	3971.0	4122.6	4253.8	4492.9	4662.0	4746.5	5166.4	5498.8	5699.9
17.5°	3909.8	3944.8	3947.7	4073.0	4213.0	4414.2	4562.9	4676.6	5087.7	5539.6	5702.9
20°	3968.1	3947.7	3965.2	4043.9	4180.9	4373.4	4589.1	4627.0	5061.4	5560.0	5734.9
22.5°	4134.3	4128.4	4084.7	4148.9	4245.1	4446.2	4650.3	4708.6	5137.2	5664.9	5761.2
25°	4318.0	4350.0	4309.2	4300.5	4367.5	4565.8	4836.9	4912.7	5390.9	5854.5	5842.8
27.5°	4662.0	4629.9	4629.9	4589.1	4571.6	4667.8	5038.1	5163.5	5673.7	6099.4	5936.1
30°	4991.5	5026.4	5000.2	5014.8	4898.2	4889.4	5323.8	5478.4	6175.2	6472.6	6134.4
32.5°	5513.3	5466.7	5510.4	5472.5	5318.0	5160.6	5711.6	5872.0	6781.6	6901.2	6431.7
35°	5947.8	5927.4	6113.9	6108.1	5857.4	5702.9	6122.7	6361.8	7204.4	7414.3	6781.6
37.5°	6565.9	6528.0	6740.8	6842.8	6618.3	6388.0	6711.6	6988.6	7598.0	7825.4	7140.2
40°	7201.5	7297.7	7583.4	7752.5	7513.4	7207.3	7431.8	7516.3	7860.4	8093.6	7385.1
42.5°	8006.2	8146.1	8437.7	8583.4	8563.0	8230.6	8163.6	8160.7	8049.9	8017.8	7565.9
45°	8778.8	8726.3	9175.3	9493.1	9749.7	9653.4	8869.2	8781.7	8350.2	8131.5	7612.5
47.5°	9117.0	9099.5	9405.6	9971.2	10845.9	10965.5	9895.4	9557.2	8857.5	8609.7	7866.2
50°	8679.6	8770.0	9073.2	9700.1	11041.3	11953.8	11155.0	10700.1	9449.4	9192.8	8466.8
52.5°	7251.0	7312.2	7600.9	8396.8	10376.5	12536.9	12362.0	12099.6	10536.9	10111.2	9513.5
54°	5962.3	6125.6	6283.1	7081.9	9192.8	12213.3	13023.8	12822.7	11245.3	10875.1	10172.4
55°	5192.6	5288.8	5402.5	6198.5	8373.5	11665.2	12948.0	12965.5	11720.6	11114.1	10615.6
57.5°	3793.2	3860.2	3743.6	4096.4	5749.5	9472.7	11843.0	12315.4	12362.0	11472.8	10886.7
60°	2898.1	2927.2	2796.0	2851.4	3574.5	6501.7	9160.7	9729.3	11152.0	10026.6	9221.9
62.5°	2247.9	2253.7	2250.8	2347.0	2463.7	3825.2	5729.1	6233.5	7688.4	7119.8	6262.6
65°	1656.0	1629.8	1676.5	1968.0	2102.1	2405.3	3017.6	3385.0	4178.0	3527.8	2522.0
67.5°	1072.9	1081.7	1128.3	1463.6	1801.8	1845.6	1857.2	1828.1	1831.0	1008.8	632.7
70°	644.3	658.9	644.3	828.0	1288.7	1323.7	1210.0	1180.8	921.3	239.1	236.2
72.5°	381.9	361.5	323.6	355.7	536.5	641.4	577.3	574.4	361.5	139.9	139.9
75°	160.4	145.8	119.5	107.9	142.9	137.0	137.0	122.5	96.2	93.3	87.5
77.5°	32.1	32.1	23.3	26.2	35.0	40.8	49.6	49.6	58.3	58.3	55.4
80°	0.0	2.9	8.7	17.5	26.2	37.9	43.7	43.7	49.6	49.6	40.8
82.5°	0.0	2.9	8.7	17.5	23.3	35.0	43.7	43.7	49.6	52.5	43.7
85°	0.0	2.9	8.7	14.6	23.3	29.2	29.2	26.2	20.4	17.5	11.7
87.5°	0.0	0.0	2.9	5.8	2.9	5.8	5.8	5.8	5.8	5.8	5.8
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: P531143

CATALOG NUMBER: GALN-SA6B-830-U-SL2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5621.2	5621.2	5621.2	5621.2	5621.2	5621.2	5621.2	5621.2	5621.2	5621.2	5621.2
2.5°	5647.5	5644.5	5574.6	5460.9	5434.6	5338.4	5326.7	5268.4	5300.5	5192.6	5181.0
5°	5600.8	5565.8	5481.3	5408.4	5195.5	5043.9	4924.4	4778.6	4694.1	4708.6	4653.2
7.5°	5667.9	5577.5	5428.8	5175.1	4915.6	4650.3	4507.5	4210.1	4102.2	3941.8	3918.5
10°	5597.9	5530.8	5300.5	4880.7	4522.0	4140.1	3804.8	3475.4	3224.6	3116.7	3093.4
12.5°	5592.1	5475.4	5090.6	4624.1	4105.1	3557.0	3070.1	2659.0	2411.2	2271.2	2239.2
15°	5501.7	5361.7	4854.4	4227.6	3510.3	2828.1	2297.5	1901.0	1711.4	1629.8	1653.1
17.5°	5510.4	5300.5	4618.3	3807.7	2924.3	2075.9	1568.6	1364.5	1314.9	1335.3	1335.3
20°	5501.7	5163.5	4332.5	3323.7	2239.2	1440.3	1151.6	1078.8	1110.8	1175.0	1160.4
22.5°	5455.0	5099.3	4070.1	2813.5	1647.3	1067.1	924.2	927.2	976.7	1055.4	1072.9
25°	5490.0	4956.5	3737.8	2297.5	1201.2	851.3	801.8	822.2	874.7	933.0	944.6
27.5°	5463.8	4854.4	3390.8	1784.3	877.6	731.8	728.9	752.2	775.5	819.3	819.3
30°	5492.9	4761.1	3049.7	1326.6	723.1	670.6	658.9	676.4	699.7	708.5	705.6
32.5°	5600.8	4691.1	2656.1	991.3	638.5	612.3	612.3	612.3	609.4	621.0	623.9
35°	5837.0	4702.8	2309.1	766.8	583.1	562.7	554.0	542.3	536.5	542.3	545.2
37.5°	6093.5	4697.0	1950.5	653.1	542.3	524.8	504.4	486.9	484.0	489.8	481.1
40°	6207.2	4752.4	1618.1	586.0	504.4	484.0	451.9	437.3	440.3	446.1	440.3
42.5°	6361.8	4769.9	1402.4	533.5	469.4	437.3	416.9	399.4	396.5	405.3	402.3
45°	6358.9	4670.7	1175.0	504.4	437.3	402.3	376.1	361.5	361.5	367.4	370.3
47.5°	6545.5	4656.2	1008.8	478.2	414.0	379.0	347.0	335.3	332.4	332.4	326.5
50°	6979.9	4860.3	880.5	449.0	384.9	352.8	326.5	312.0	300.3	294.5	291.6
52.5°	7828.3	5495.8	781.4	414.0	352.8	326.5	303.2	291.6	277.0	262.4	259.5
54°	8650.5	6151.8	775.5	384.9	326.5	309.1	288.6	282.8	265.3	244.9	239.1
55°	9020.8	6533.8	796.0	361.5	309.1	297.4	279.9	274.1	256.6	233.2	230.3
57.5°	9326.9	6682.5	784.3	300.3	279.9	277.0	262.4	253.7	233.2	201.2	195.3
60°	7507.6	5052.7	562.7	265.3	256.6	250.7	239.1	233.2	207.0	172.0	169.1
62.5°	4743.6	2906.8	358.6	233.2	224.5	215.8	201.2	195.3	172.0	137.0	128.3
65°	2020.5	1204.1	242.0	207.0	192.4	177.8	166.2	157.4	137.0	102.0	99.1
67.5°	524.8	428.6	201.2	180.8	160.4	139.9	131.2	116.6	93.3	70.0	67.1
70°	236.2	215.8	169.1	151.6	128.3	107.9	96.2	81.6	61.2	46.6	43.7
72.5°	139.9	137.0	128.3	113.7	96.2	81.6	70.0	55.4	40.8	26.2	26.2
75°	87.5	84.6	87.5	78.7	67.1	61.2	52.5	37.9	23.3	11.7	11.7
77.5°	52.5	52.5	52.5	49.6	46.6	46.6	37.9	23.3	11.7	2.9	2.9
80°	40.8	40.8	43.7	40.8	40.8	40.8	32.1	17.5	5.8	0.0	0.0
82.5°	40.8	43.7	49.6	46.6	40.8	35.0	29.2	17.5	5.8	0.0	0.0
85°	11.7	8.7	14.6	20.4	29.2	26.2	20.4	14.6	5.8	0.0	0.0
87.5°	5.8	5.8	5.8	5.8	2.9	2.9	2.9	2.9	2.9	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)