

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: P652576

Luminaire Tested: **GALN-SA8B-840-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652576  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-840-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23076.2 lumens  
Efficiency: N/A  
Efficacy: 71.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

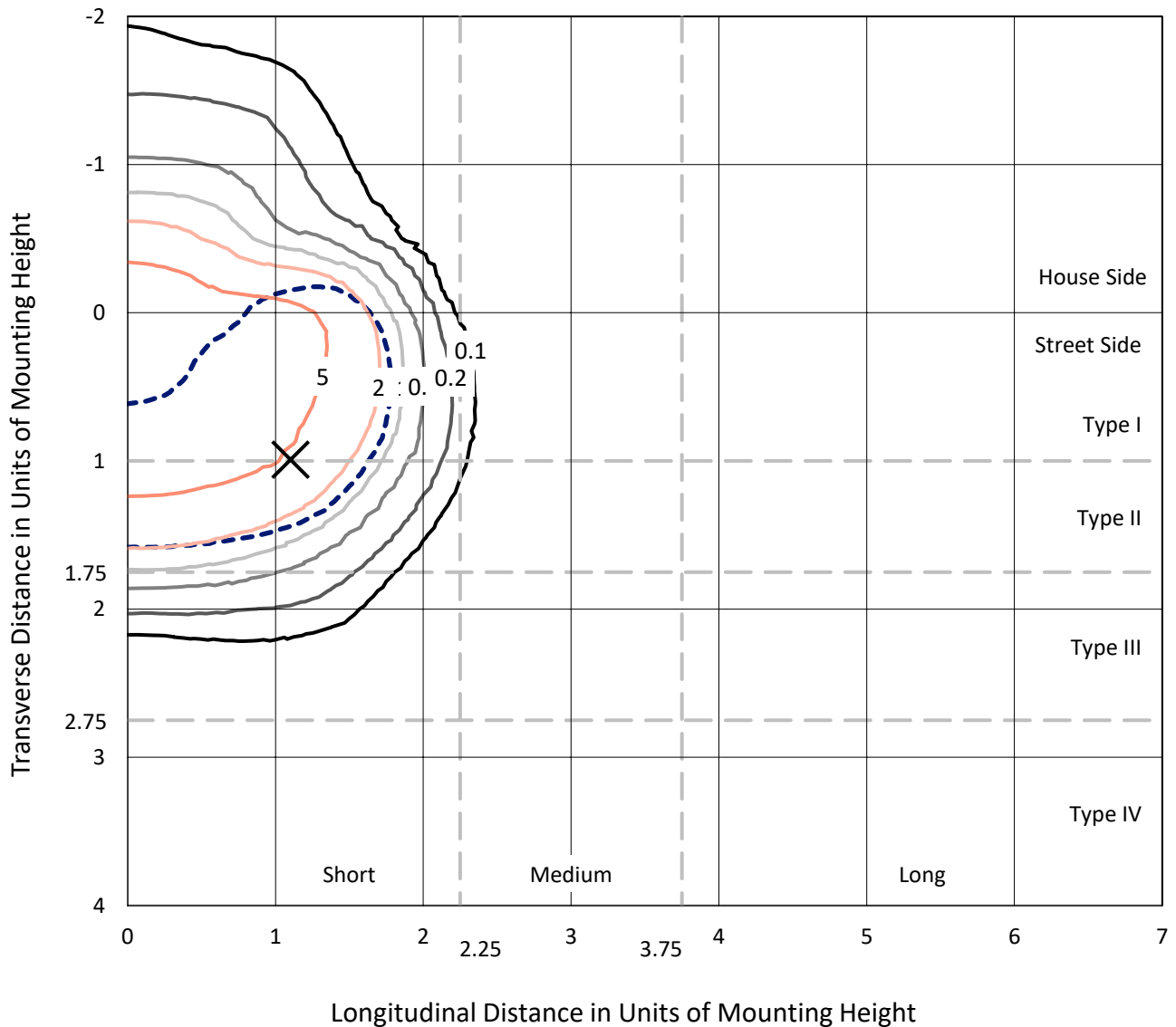
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P652576  
 CATALOG NUMBER: GALN-SA8B-840-U-T3-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

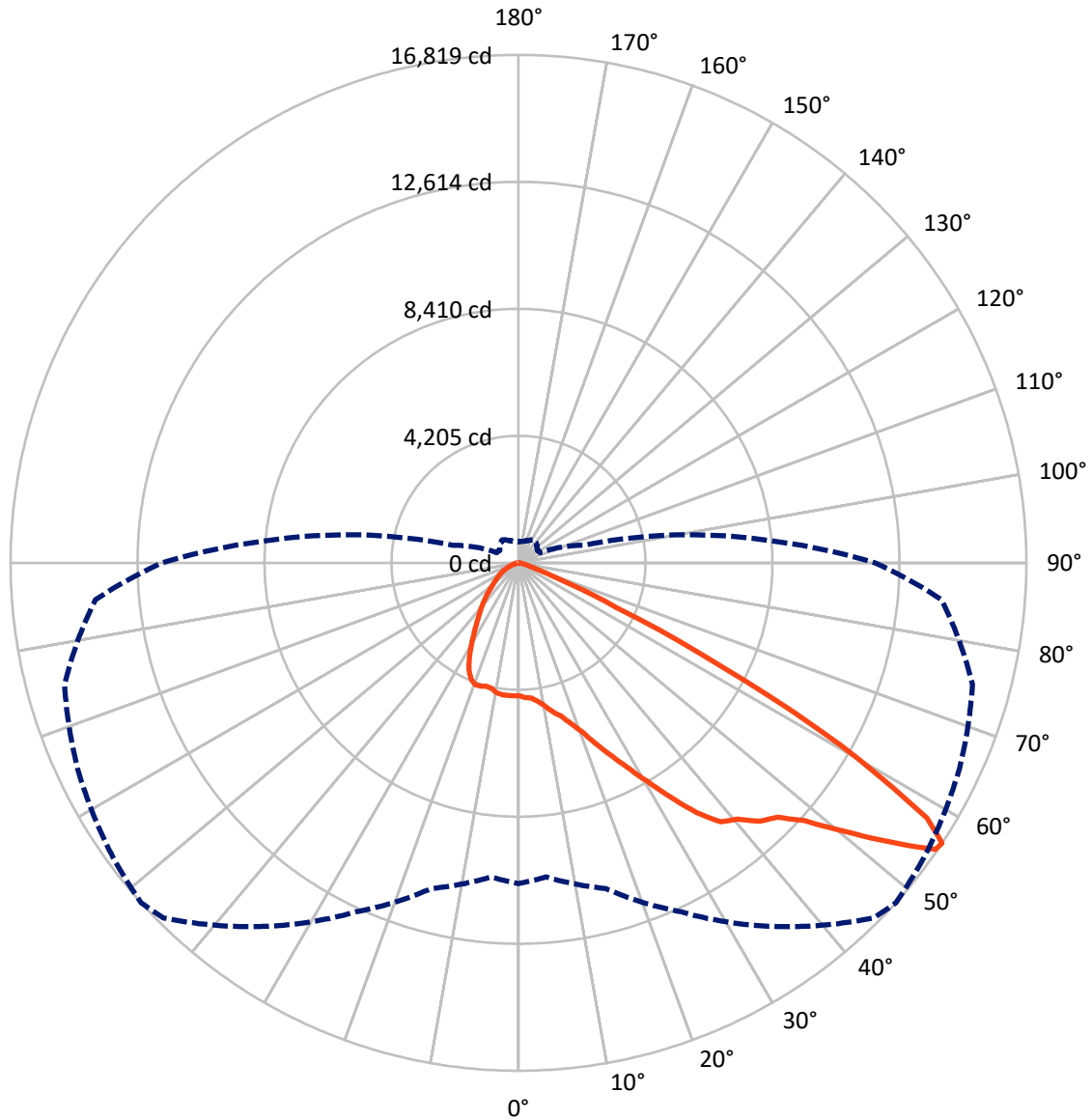
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P652576  
CATALOG NUMBER: GALN-SA8B-840-U-T3-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P652576  
 CATALOG NUMBER: GALN-SA8B-840-U-T3-GRSBK

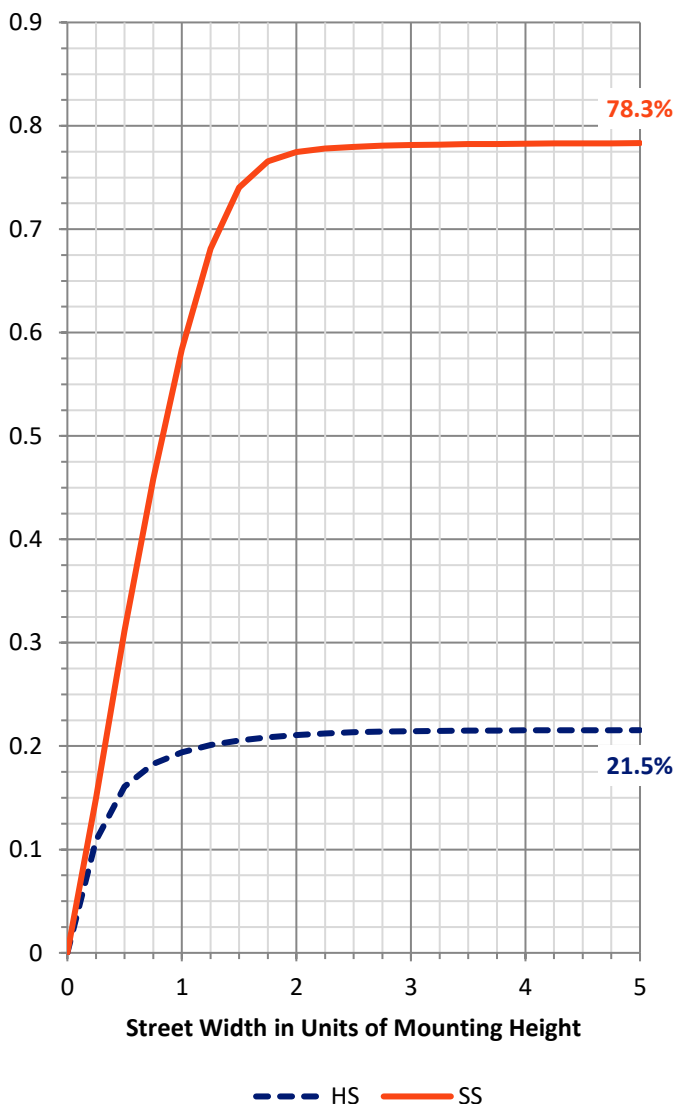
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5018.6	0.0	5018.6
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	18057.6	0.0	18057.6
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	23076.2	0.0	23076.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	429.3	1.9
10°-20°	1372.1	5.9
20°-30°	2488.7	10.8
30°-40°	3909.3	16.9
40°-50°	5703.0	24.7
50°-60°	6871.0	29.8
60°-70°	2011.8	8.7
70°-80°	255.2	1.1
80°-90°	35.8	0.2
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°	23076.2	100.0
0°-180°	23076.2	100.0

**Coefficient of Utilization**



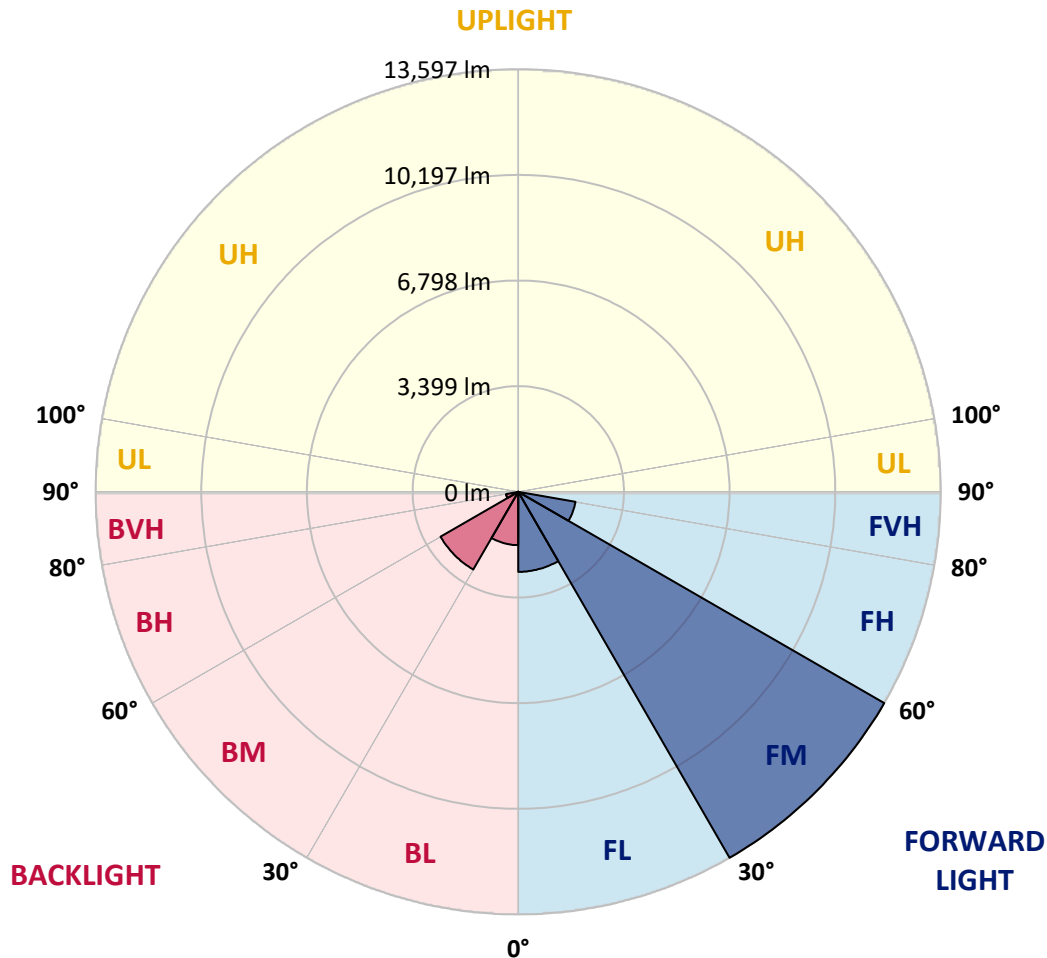
REPORT NUMBER: P652576  
 CATALOG NUMBER: GALN-SA8B-840-U-T3-GRSBK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2574.8	11.2			
FM (30°-60°)	13596.6	58.9			
FH (60°-80°)	1868.2	8.1			G2/5000
FVH (80°-90°)	18.0	0.1			G1/100
BL (0°-30°)	1715.3	7.4	B3/2500		
BM (30°-60°)	2886.7	12.5	B3/5000		
BH (60°-80°)	398.8	1.7	B1/500		G1/500
BVH (80°-90°)	17.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





REPORT NUMBER: P652576

CATALOG NUMBER: GALN-SA8B-840-U-T3-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	4407.6	4407.6	4407.6	4407.6	4407.6	4407.6	4407.6	4407.6	4407.6	4407.6	4407.6
2.5°	4487.4	4466.4	4466.4	4432.7	4470.6	4453.8	4466.4	4424.3	4466.4	4403.4	4453.8
5°	4508.4	4512.6	4495.8	4516.8	4516.8	4542.0	4500.0	4537.8	4558.8	4512.6	4491.6
7.5°	4617.7	4626.1	4621.9	4605.1	4638.6	4634.4	4630.3	4600.9	4609.3	4592.4	4567.2
10°	4832.0	4827.8	4848.7	4806.7	4781.5	4810.9	4819.4	4773.1	4739.5	4726.9	4647.0
12.5°	5142.9	5092.4	5063.0	5021.0	5033.6	4991.6	5067.2	4987.4	4970.6	4895.0	4815.1
15°	5394.9	5386.5	5390.7	5323.5	5247.9	5264.7	5264.7	5222.7	5197.5	5105.0	4991.6
17.5°	5911.7	5735.3	5773.1	5689.1	5626.0	5621.8	5584.1	5592.4	5525.2	5331.9	5159.7
20°	6315.2	6239.5	6180.7	6037.8	5941.2	5970.6	5953.8	5911.7	5890.8	5638.7	5394.9
22.5°	6676.4	6701.7	6605.0	6567.2	6432.8	6445.3	6479.0	6441.2	6281.5	6021.0	5659.7
25°	7184.9	7155.5	7025.2	6979.0	6853.0	6899.1	7029.4	7000.0	6899.1	6428.6	5865.6
27.5°	7785.7	7684.9	7710.1	7500.0	7378.2	7508.4	7663.9	7811.0	7525.2	6907.6	6109.3
30°	8210.1	8105.1	8096.6	8088.2	8058.8	8210.1	8390.7	8525.2	8294.1	7386.6	6512.6
32.5°	8420.2	8445.4	8516.8	8491.6	8747.9	9058.8	9247.9	9441.2	9151.3	8168.0	7046.2
35°	8979.0	8819.3	8979.0	8995.8	9260.5	9920.2	10159.7	10621.8	10550.4	9273.1	7697.5
37.5°	9306.8	9294.1	9315.2	9474.8	9731.1	10546.2	10886.6	11243.7	11109.3	9937.0	8508.4
40°	9848.8	9882.3	9878.1	10000.0	10281.5	11016.8	11155.4	11445.4	11458.0	10857.1	9701.7
42.5°	10718.5	10584.1	10495.8	10621.8	11016.8	11424.4	11701.7	11642.9	12058.8	11974.8	11235.3
45°	11500.0	11579.8	11449.5	11659.7	11802.5	12021.0	12012.6	12138.7	12668.1	13067.2	12390.8
47.5°	12231.1	12281.5	12344.5	12487.4	12798.3	12831.9	12760.5	12705.9	13437.0	13848.7	13285.7
50°	12668.1	12714.3	13008.4	13264.7	13844.5	13920.1	13962.2	13823.5	14319.4	14365.5	14130.2
52.5°	12550.4	12600.9	13012.6	13857.2	14781.5	15474.8	15348.8	15113.4	15084.0	15264.7	14911.8
55°	11508.4	11462.2	12029.4	13344.6	15075.6	16739.5	16756.3	16508.4	16033.6	15911.8	14794.1
56°	10621.8	10441.2	11163.9	12752.1	14697.5	16630.3	16819.3	16554.7	16109.3	15563.0	14067.2
57.5°	8701.7	8874.0	9592.4	10907.6	13390.7	15844.5	15953.8	15890.8	15554.6	14638.7	12378.2
60°	4798.3	5100.8	5735.3	7344.5	9533.6	12159.7	12247.9	12760.5	12823.6	11210.1	8516.8
62.5°	2037.8	2004.2	2663.9	3848.8	5428.6	7340.3	7504.2	8029.4	8126.1	6462.2	4273.1
65°	827.7	874.0	1205.9	1937.0	2869.7	3344.6	3575.6	3747.9	4067.2	2668.1	1575.6
67.5°	546.2	542.0	710.1	1105.1	1546.2	1491.6	1491.6	1575.6	1458.0	1088.3	680.7
70°	390.7	403.3	508.4	764.7	962.2	714.3	684.9	655.5	743.7	718.5	550.4
72.5°	256.3	273.1	340.4	458.0	500.0	390.7	390.7	470.6	613.4	579.9	449.6
75°	168.0	172.2	210.1	264.7	247.9	201.7	222.7	315.1	445.4	428.6	319.3
77.5°	113.5	117.7	142.9	172.2	138.7	113.5	121.9	159.7	218.5	218.5	168.0
80°	42.0	46.3	58.8	54.6	63.0	79.8	88.2	109.2	130.3	130.3	113.5
82.5°	0.0	4.2	12.6	29.4	46.3	63.0	71.4	84.0	96.6	109.2	105.0
85°	0.0	4.2	12.6	21.0	33.6	37.8	42.0	29.4	25.2	25.2	21.0
87.5°	0.0	0.0	4.2	4.2	4.2	4.2	4.2	4.2	8.4	4.2	4.2
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: P652576

CATALOG NUMBER: GALN-SA8B-840-U-T3-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4407.6	4407.6	4407.6	4407.6	4407.6	4407.6	4407.6	4407.6	4407.6	4407.6	4407.6
2.5°	4407.6	4403.4	4403.4	4390.8	4416.0	4403.4	4411.8	4407.6	4352.9	4395.0	4365.5
5°	4453.8	4483.2	4436.9	4428.5	4395.0	4407.6	4407.6	4365.5	4403.4	4399.2	4390.8
7.5°	4571.4	4521.0	4470.6	4420.1	4411.8	4399.2	4352.9	4336.1	4365.5	4331.9	4382.4
10°	4621.9	4630.3	4554.6	4487.4	4424.3	4336.1	4273.1	4235.3	4189.1	4239.5	4268.9
12.5°	4852.9	4768.9	4638.6	4533.6	4319.3	4231.1	4168.1	4151.3	4231.1	4247.9	4218.5
15°	4932.8	4920.2	4752.1	4516.8	4294.1	4189.1	4201.7	4168.1	4176.5	4134.4	4142.9
17.5°	5096.6	4953.7	4756.3	4462.2	4289.9	4264.7	4189.1	4054.6	3979.0	3945.4	3974.8
20°	5277.3	5138.7	4852.9	4483.2	4327.7	4260.5	4012.6	3848.8	3693.3	3609.2	3613.4
22.5°	5437.0	5264.7	4810.9	4491.6	4361.3	4084.1	3785.7	3462.1	3268.9	3138.7	3142.8
25°	5630.2	5386.5	4827.8	4508.4	4273.1	3802.5	3373.9	3058.8	2827.7	2739.5	2768.9
27.5°	5739.5	5462.2	4920.2	4546.2	4042.0	3403.4	2941.1	2647.0	2512.6	2470.6	2466.4
30°	6067.2	5630.2	5033.6	4470.6	3655.5	2974.8	2546.2	2365.6	2235.3	2197.4	2205.9
32.5°	6554.6	5937.0	5180.6	4273.1	3260.5	2592.5	2289.9	2155.5	2033.6	1962.2	1953.8
35°	6962.2	6462.2	5336.1	3966.4	2802.5	2298.3	2109.2	1941.2	1756.3	1676.4	1655.4
37.5°	7739.5	7054.6	5302.5	3504.2	2365.6	2079.8	1916.0	1710.1	1550.4	1441.1	1428.6
40°	8773.1	7747.9	5138.7	2941.1	2042.0	1886.5	1710.1	1512.6	1315.2	1222.7	1214.3
42.5°	10029.4	8596.6	4840.4	2369.8	1718.5	1693.3	1533.6	1306.7	1130.2	1063.0	1067.2
45°	11050.4	9323.5	4537.8	1903.4	1479.0	1504.2	1365.5	1151.2	1029.4	974.8	974.8
47.5°	11958.0	9815.1	4210.0	1571.4	1256.3	1315.2	1193.3	1067.2	962.2	920.1	911.7
50°	12831.9	10315.1	3882.4	1273.1	1071.4	1130.2	1117.7	1016.8	932.8	882.4	886.6
52.5°	13378.1	10394.9	3466.3	1042.0	937.0	1004.2	1046.2	953.8	861.4	831.9	823.5
55°	12710.1	9365.5	2689.1	857.1	794.2	882.4	962.2	857.1	785.7	735.3	731.1
56°	11810.9	8373.9	2247.9	790.0	752.1	848.7	932.8	819.3	739.5	710.1	689.1
57.5°	10000.0	6853.0	1659.6	701.6	697.4	790.0	886.6	781.5	689.1	663.9	663.9
60°	6235.3	3857.2	1004.2	588.2	605.0	701.6	798.4	697.4	613.4	613.4	626.0
62.5°	2840.3	1605.0	609.2	500.0	521.0	605.0	710.1	630.2	584.1	630.2	638.7
65°	966.4	693.2	441.2	399.1	411.8	500.0	609.2	638.7	634.5	663.9	680.7
67.5°	542.0	445.4	369.8	331.9	323.5	369.8	500.0	638.7	613.4	600.8	609.2
70°	458.0	378.1	327.7	294.1	281.5	298.3	386.5	483.2	432.8	420.2	411.8
72.5°	369.8	315.1	285.7	264.7	226.9	193.3	176.4	184.9	205.9	218.5	239.5
75°	260.5	239.5	239.5	214.3	163.8	121.9	96.6	79.8	54.6	37.8	42.0
77.5°	147.1	147.1	151.3	130.3	105.0	79.8	58.8	42.0	21.0	8.4	4.2
80°	100.8	109.2	117.7	105.0	88.2	71.4	50.5	29.4	12.6	0.0	0.0
82.5°	100.8	113.5	121.9	105.0	88.2	67.2	50.5	29.4	12.6	4.2	0.0
85°	21.0	25.2	29.4	33.6	50.5	50.5	37.8	25.2	12.6	4.2	0.0
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	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)