

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: P647571

Luminaire Tested: **GALN-SA7D-835-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647571  
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-SA7D-835-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 1200mA 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: 25194.6 lumens  
Efficiency: N/A  
Efficacy: 58.2 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

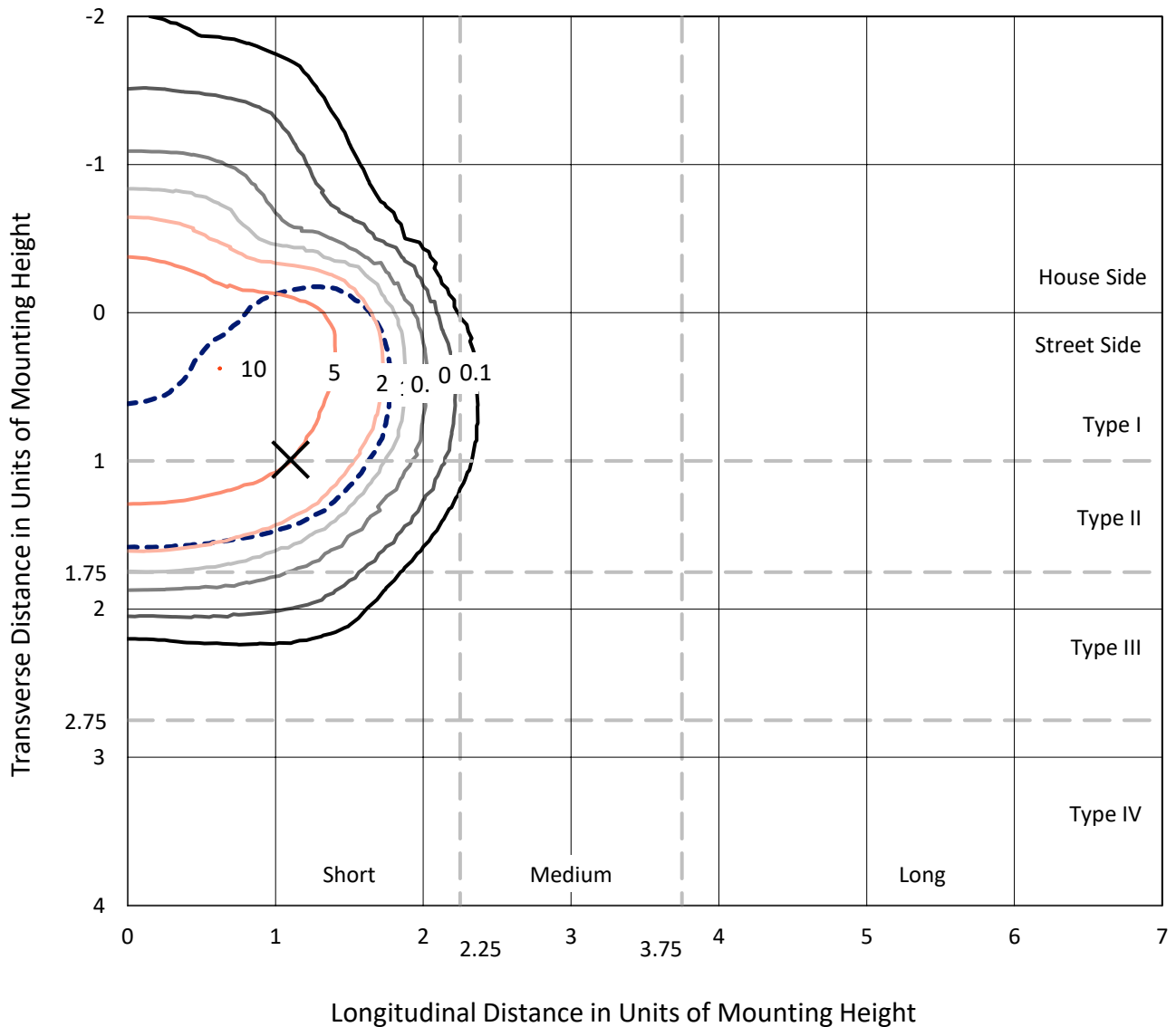
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P647571  
 CATALOG NUMBER: GALN-SA7D-835-U-T3-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

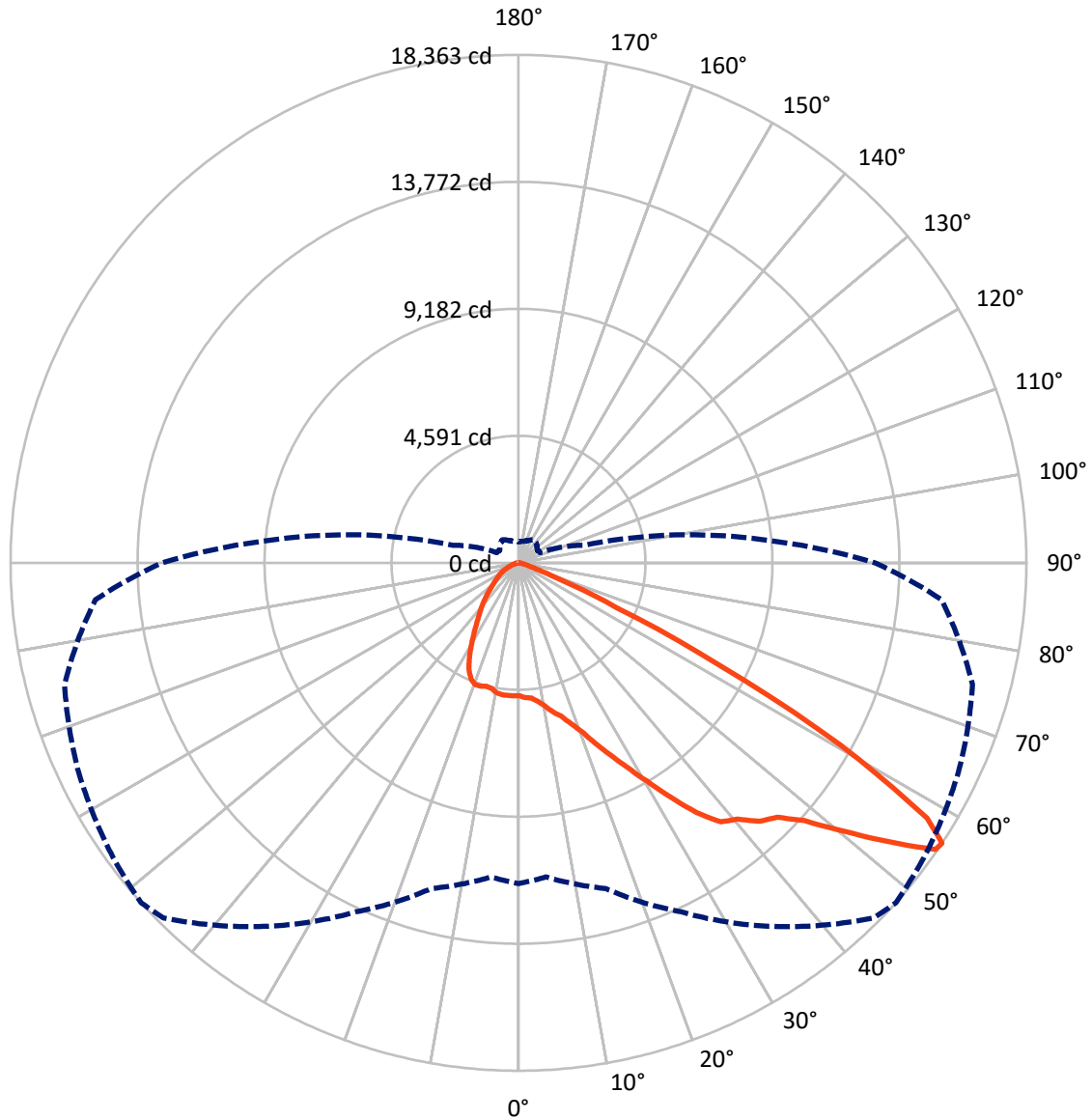
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type II - Short - N/A

REPORT NUMBER: P647571  
CATALOG NUMBER: GALN-SA7D-835-U-T3-GRSBK

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P647571  
 CATALOG NUMBER: GALN-SA7D-835-U-T3-GRSBK

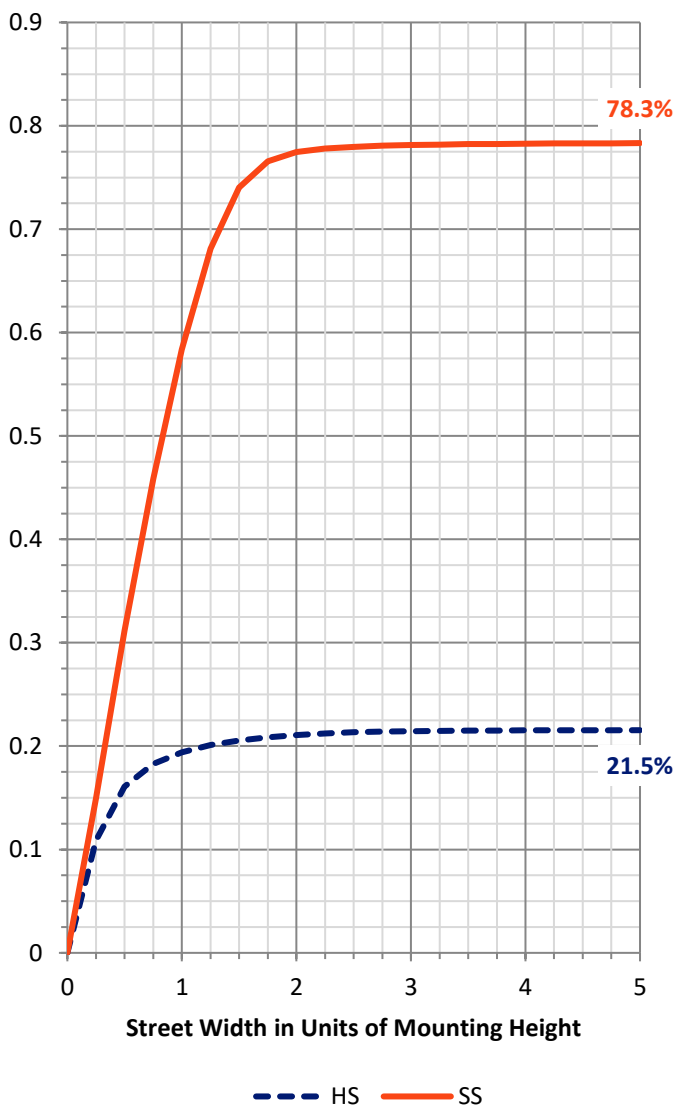
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5479.3	0.0	5479.3
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	19715.3	0.0	19715.3
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	25194.6	0.0	25194.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	468.8	1.9
10°-20°	1498.1	5.9
20°-30°	2717.2	10.8
30°-40°	4268.2	16.9
40°-50°	6226.5	24.7
50°-60°	7501.7	29.8
60°-70°	2196.4	8.7
70°-80°	278.6	1.1
80°-90°	39.1	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°	25194.6	100.0
0°-180°	25194.6	100.0

**Coefficient of Utilization**



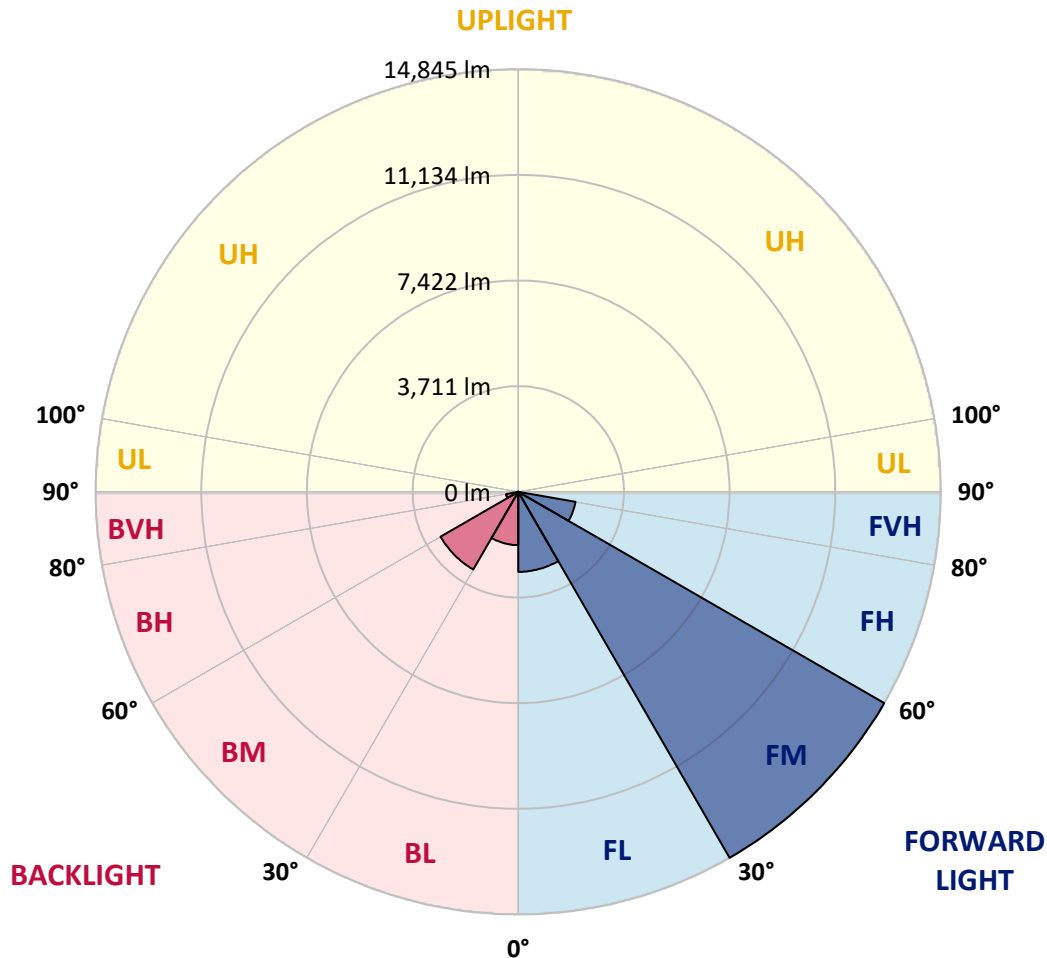
REPORT NUMBER: P647571  
 CATALOG NUMBER: GALN-SA7D-835-U-T3-GRSBK

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2811.2	11.2			
FM	(30°-60°)	14844.7	58.9			
FH	(60°-80°)	2039.7	8.1			G2/5000
FVH	(80°-90°)	19.6	0.1			G1/100
BL	(0°-30°)	1872.8	7.4	B3/2500		
BM	(30°-60°)	3151.7	12.5	B3/5000		
BH	(60°-80°)	435.4	1.7	B1/500		G1/500
BVH	(80°-90°)	19.5	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: P647571

CATALOG NUMBER: GALN-SA7D-835-U-T3-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	4812.2	4812.2	4812.2	4812.2	4812.2	4812.2	4812.2	4812.2	4812.2	4812.2	4812.2
2.5°	4899.3	4876.4	4876.4	4839.7	4881.0	4862.7	4876.4	4830.6	4876.4	4807.6	4862.7
5°	4922.3	4926.9	4908.5	4931.4	4931.4	4959.0	4913.1	4954.4	4977.3	4926.9	4903.9
7.5°	5041.6	5050.7	5046.1	5027.8	5064.5	5059.9	5055.3	5023.2	5032.3	5014.0	4986.5
10°	5275.5	5270.9	5293.9	5248.0	5220.4	5252.6	5261.8	5211.3	5174.6	5160.8	5073.7
12.5°	5615.0	5559.9	5527.8	5481.9	5495.7	5449.8	5532.4	5445.2	5426.9	5344.3	5257.1
15°	5890.2	5881.0	5885.7	5812.2	5729.7	5748.0	5748.0	5702.1	5674.6	5573.7	5449.8
17.5°	6454.5	6261.8	6303.1	6211.3	6142.6	6137.9	6096.7	6105.8	6032.4	5821.4	5633.3
20°	6894.9	6812.3	6748.1	6592.1	6486.6	6518.7	6500.3	6454.5	6431.6	6156.3	5890.2
22.5°	7289.3	7316.9	7211.4	7170.1	7023.3	7037.1	7073.8	7032.5	6858.1	6573.8	6179.2
25°	7844.4	7812.3	7670.1	7619.7	7482.0	7532.5	7674.7	7642.6	7532.5	7018.7	6404.0
27.5°	8500.4	8390.3	8417.9	8188.5	8055.5	8197.7	8367.4	8528.0	8216.0	7541.7	6670.1
30°	8963.8	8849.1	8839.9	8830.8	8798.6	8963.8	9161.0	9307.8	9055.6	8064.7	7110.5
32.5°	9193.1	9220.7	9298.7	9271.1	9551.0	9890.4	10096.9	10307.9	9991.3	8917.9	7693.1
35°	9803.2	9628.9	9803.2	9821.6	10110.6	10830.8	11092.3	11596.9	11518.9	10124.3	8404.1
37.5°	10161.1	10147.3	10170.2	10344.6	10624.4	11514.3	11885.9	12275.9	12129.1	10849.2	9289.5
40°	10752.9	10789.6	10785.0	10918.0	11225.3	12028.1	12179.6	12496.1	12509.8	11853.8	10592.3
42.5°	11702.5	11555.7	11459.3	11596.9	12028.1	12473.1	12775.9	12711.7	13165.8	13074.1	12266.7
45°	12555.7	12642.9	12500.7	12730.0	12886.0	13124.6	13115.3	13253.0	13831.0	14266.8	13528.2
47.5°	13353.9	13409.0	13477.8	13633.8	13973.2	14009.9	13931.9	13872.3	14670.5	15120.0	14505.3
50°	13831.0	13881.5	14202.6	14482.4	15115.5	15198.0	15243.9	15092.6	15633.8	15684.3	15427.4
52.5°	13702.6	13757.6	14207.1	15129.2	16138.5	16895.3	16757.8	16500.9	16468.8	16666.0	16280.7
55°	12564.9	12514.4	13133.7	14569.6	16459.6	18276.2	18294.6	18023.9	17505.5	17372.5	16152.2
56°	11596.9	11399.7	12188.7	13922.8	16046.7	18156.9	18363.3	18074.3	17588.1	16991.7	15358.6
57.5°	9500.5	9688.6	10473.0	11908.9	14620.0	17299.1	17418.3	17349.6	16982.6	15982.5	13514.5
60°	5238.8	5569.1	6261.8	8018.8	10408.8	13275.9	13372.2	13931.9	14000.7	12239.2	9298.7
62.5°	2224.9	2188.2	2908.4	4202.0	5926.9	8014.2	8193.1	8766.5	8872.0	7055.4	4665.3
65°	903.7	954.2	1316.6	2114.8	3133.2	3651.6	3903.9	4092.0	4440.6	2913.0	1720.3
67.5°	596.3	591.8	775.2	1206.4	1688.1	1628.6	1628.6	1720.3	1591.8	1188.1	743.1
70°	426.7	440.4	555.1	834.9	1050.6	779.9	747.8	715.7	812.0	784.4	601.0
72.5°	279.8	298.2	371.6	500.0	545.9	426.7	426.7	513.8	669.8	633.1	490.9
75°	183.5	188.1	229.3	289.0	270.7	220.2	243.1	344.1	486.2	467.9	348.7
77.5°	123.9	128.4	156.0	188.1	151.4	123.9	133.0	174.3	238.6	238.6	183.5
80°	45.9	50.4	64.2	59.7	68.8	87.1	96.3	119.3	142.2	142.2	123.9
82.5°	0.0	4.6	13.8	32.1	50.4	68.8	78.0	91.8	105.5	119.3	114.7
85°	0.0	4.6	13.8	22.9	36.7	41.3	45.9	32.1	27.6	27.6	22.9
87.5°	0.0	0.0	4.6	4.6	4.6	4.6	4.6	4.6	9.2	4.6	4.6
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: P647571

CATALOG NUMBER: GALN-SA7D-835-U-T3-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4812.2	4812.2	4812.2	4812.2	4812.2	4812.2	4812.2	4812.2	4812.2	4812.2	4812.2
2.5°	4812.2	4807.6	4807.6	4793.8	4821.3	4807.6	4816.8	4812.2	4752.6	4798.4	4766.3
5°	4862.7	4894.8	4844.3	4835.1	4798.4	4812.2	4812.2	4766.3	4807.6	4803.0	4793.8
7.5°	4991.1	4936.0	4881.0	4825.9	4816.8	4803.0	4752.6	4734.2	4766.3	4729.6	4784.7
10°	5046.1	5055.3	4972.8	4899.3	4830.6	4734.2	4665.3	4624.1	4573.7	4628.7	4660.8
12.5°	5298.4	5206.7	5064.5	4949.8	4715.9	4619.5	4550.7	4532.3	4619.5	4637.9	4605.8
15°	5385.6	5371.8	5188.3	4931.4	4688.3	4573.7	4587.4	4550.7	4559.9	4514.0	4523.2
17.5°	5564.5	5408.6	5192.9	4871.8	4683.7	4656.2	4573.7	4426.8	4344.2	4307.6	4339.7
20°	5761.8	5610.4	5298.4	4894.8	4725.0	4651.6	4381.0	4202.0	4032.3	3940.6	3945.1
22.5°	5936.1	5748.0	5252.6	4903.9	4761.7	4459.0	4133.2	3780.0	3569.0	3426.8	3431.3
25°	6147.1	5881.0	5270.9	4922.3	4665.3	4151.6	3683.7	3339.7	3087.3	2991.0	3023.1
27.5°	6266.3	5963.6	5371.8	4963.6	4413.1	3715.8	3211.2	2890.1	2743.2	2697.4	2692.8
30°	6624.2	6147.1	5495.7	4881.0	3991.0	3247.9	2780.0	2582.7	2440.5	2399.2	2408.4
32.5°	7156.3	6482.0	5656.2	4665.3	3559.8	2830.4	2500.1	2353.3	2220.3	2142.3	2133.1
35°	7601.3	7055.4	5826.0	4330.5	3059.8	2509.3	2302.9	2119.3	1917.6	1830.3	1807.4
37.5°	8450.0	7702.2	5789.3	3825.9	2582.7	2270.8	2091.9	1867.1	1692.8	1573.4	1559.7
40°	9578.5	8459.1	5610.4	3211.2	2229.4	2059.8	1867.1	1651.4	1435.9	1334.9	1325.8
42.5°	10950.1	9385.8	5284.7	2587.3	1876.2	1848.7	1674.4	1426.7	1234.0	1160.6	1165.2
45°	12064.9	10179.4	4954.4	2078.1	1614.8	1642.3	1490.9	1256.9	1123.9	1064.3	1064.3
47.5°	13055.7	10716.1	4596.6	1715.7	1371.7	1435.9	1302.8	1165.2	1050.6	1004.7	995.4
50°	14009.9	11262.0	4238.8	1390.0	1169.8	1234.0	1220.2	1110.1	1018.4	963.3	967.9
52.5°	14606.2	11349.2	3784.6	1137.7	1023.0	1096.4	1142.2	1041.3	940.4	908.3	899.1
55°	13876.9	10225.3	2935.9	935.8	867.0	963.3	1050.6	935.8	857.9	802.8	798.2
56°	12895.1	9142.7	2454.2	862.4	821.1	926.7	1018.4	894.6	807.4	775.2	752.3
57.5°	10918.0	7482.0	1812.0	766.1	761.5	862.4	967.9	853.2	752.3	724.8	724.8
60°	6807.7	4211.2	1096.4	642.2	660.6	766.1	871.6	761.5	669.8	669.8	683.6
62.5°	3101.1	1752.4	665.2	545.9	568.8	660.6	775.2	688.1	637.7	688.1	697.3
65°	1055.1	756.9	481.7	435.8	449.6	545.9	665.2	697.3	692.7	724.8	743.1
67.5°	591.8	486.2	403.7	362.4	353.2	403.7	545.9	697.3	669.8	656.0	665.2
70°	500.0	412.9	357.8	321.1	307.3	325.7	422.0	527.6	472.5	458.8	449.6
72.5°	403.7	344.1	311.9	289.0	247.7	211.0	192.7	201.9	224.8	238.6	261.4
75°	284.4	261.4	261.4	234.0	178.9	133.0	105.5	87.1	59.7	41.3	45.9
77.5°	160.6	160.6	165.1	142.2	114.7	87.1	64.2	45.9	22.9	9.2	4.6
80°	110.1	119.3	128.4	114.7	96.3	78.0	55.0	32.1	13.8	0.0	0.0
82.5°	110.1	123.9	133.0	114.7	96.3	73.4	55.0	32.1	13.8	4.6	0.0
85°	22.9	27.6	32.1	36.7	55.0	55.0	41.3	27.6	13.8	4.6	0.0
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	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)