

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: P532399

Luminaire Tested: **GALN-SA7D-730-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532399  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7D-730-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28947 lumens  
Efficiency: N/A  
Efficacy: 66.9 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

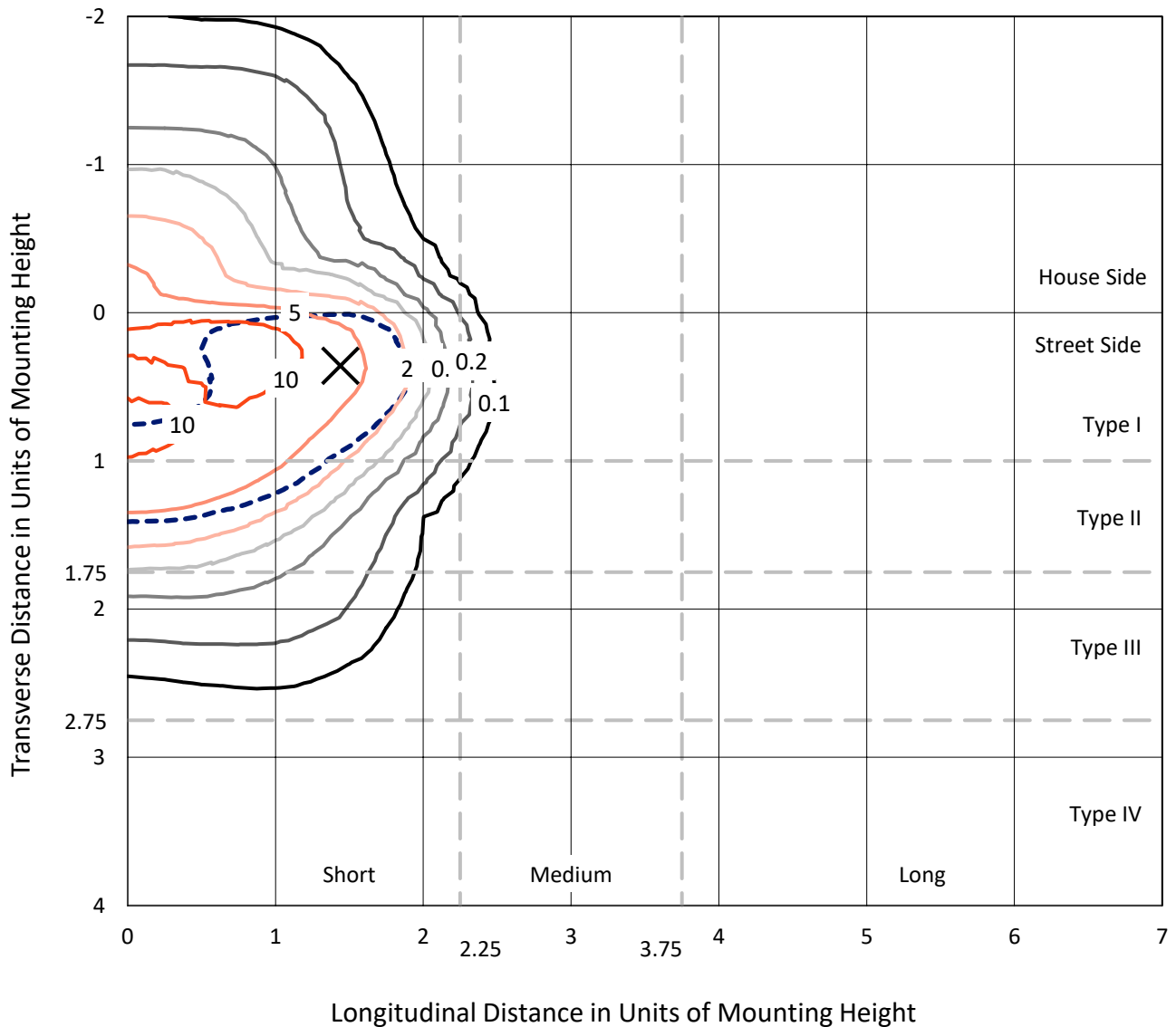
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P532399  
 CATALOG NUMBER: GALN-SA7D-730-U-T2-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

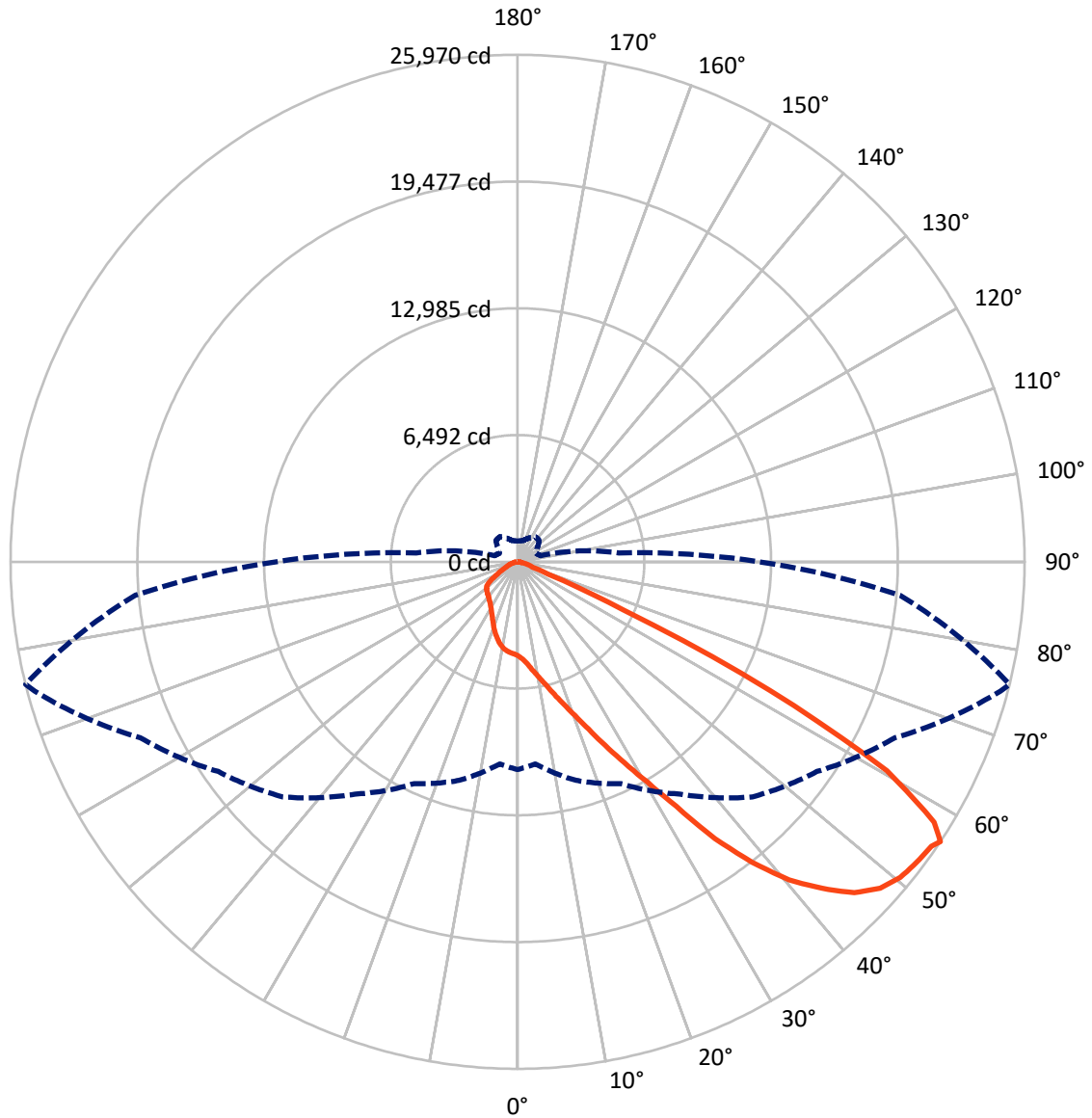
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P532399  
CATALOG NUMBER: GALN-SA7D-730-U-T2-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical



REPORT NUMBER: P532399  
 CATALOG NUMBER: GALN-SA7D-730-U-T2-GRSBK

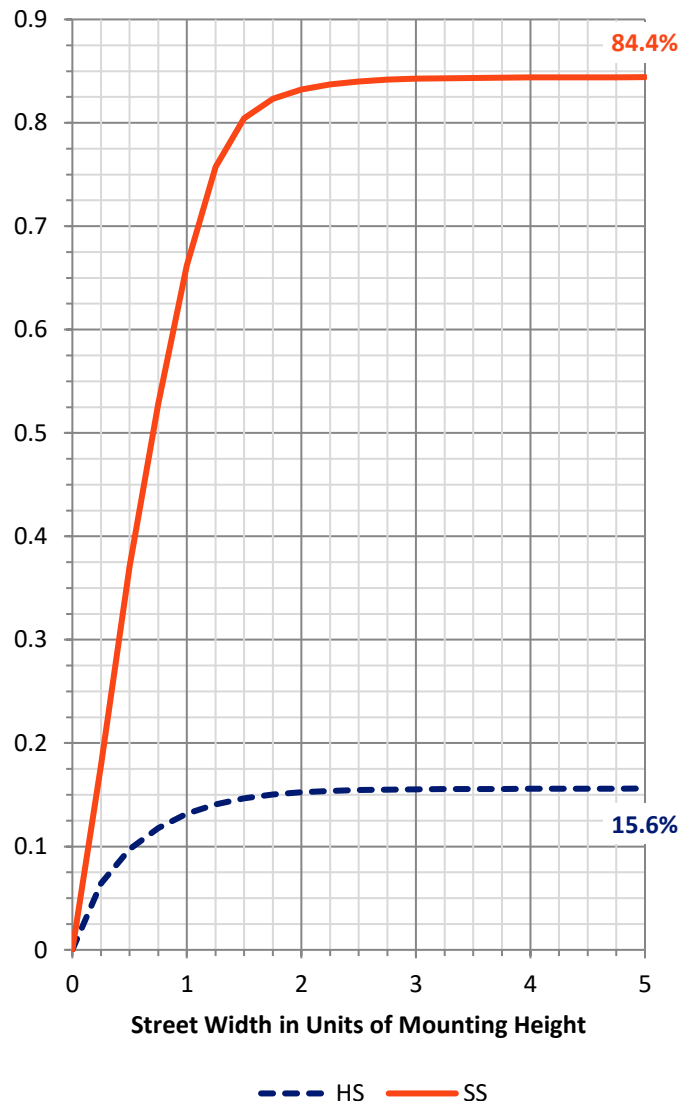
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4547.4	0.0	4547.4
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	24399.6	0.0	24399.6
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	28947.0	0.0	28947.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	485.4	1.7
10°-20°	1559.3	5.4
20°-30°	2827.5	9.8
30°-40°	4876.1	16.8
40°-50°	7921.4	27.4
50°-60°	8349.4	28.8
60°-70°	2551.1	8.8
70°-80°	327.0	1.1
80°-90°	49.7	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°	28947.0	100.0
0°-180°	28947.0	100.0

**Coefficient of Utilization**

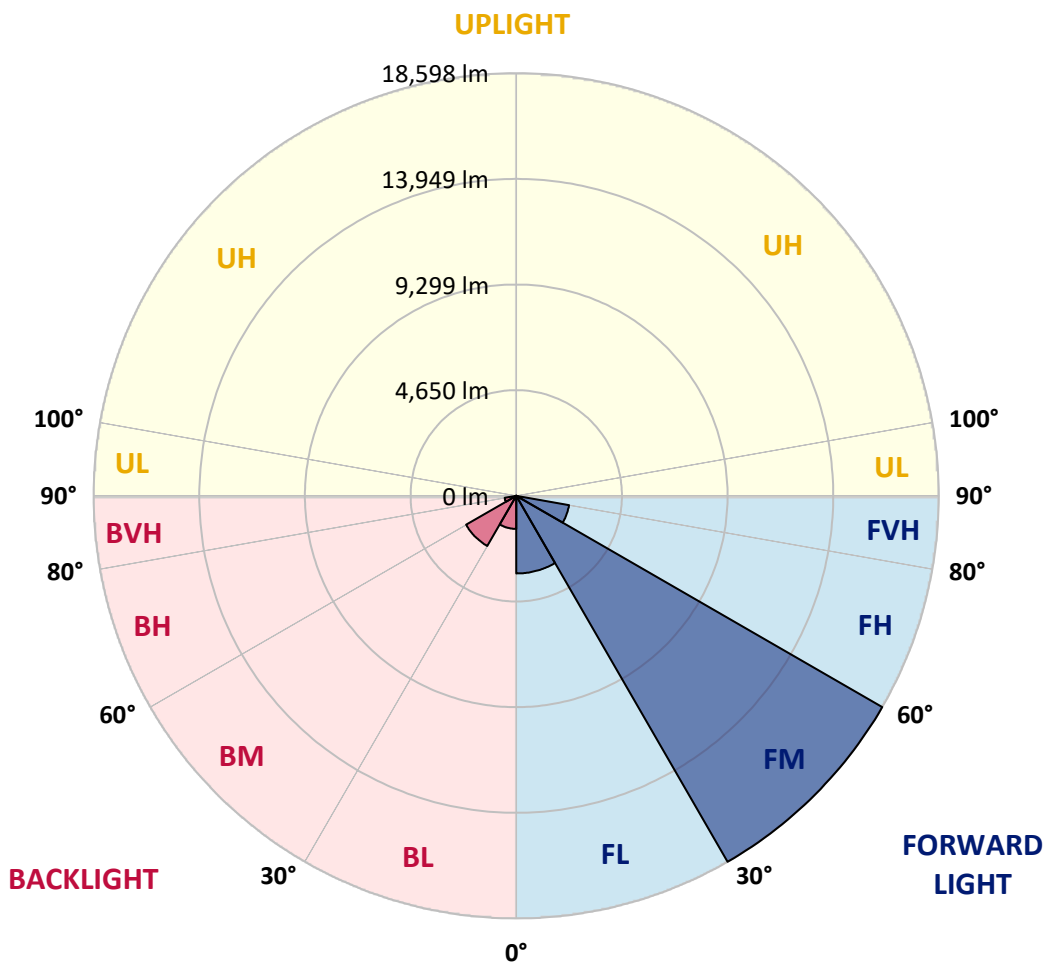


REPORT NUMBER: P532399  
 CATALOG NUMBER: GALN-SA7D-730-U-T2-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3417.5	11.8			
FM (30°-60°)	18598.4	64.2			
FH (60°-80°)	2359.4	8.2			G2/5000
FVH (80°-90°)	24.4	0.1			G1/100
BL (0°-30°)	1454.7	5.0	B3/2500		
BM (30°-60°)	2548.6	8.8	B3/5000		
BH (60°-80°)	518.8	1.8	B2/1000		G2/1000
BVH (80°-90°)	25.4	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: P532399

CATALOG NUMBER: GALN-SA7D-730-U-T2-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4818.3	4818.3	4818.3	4818.3	4818.3	4818.3	4818.3	4818.3	4818.3	4818.3	4818.3
2.5°	5549.3	5421.2	5426.6	5415.9	5399.9	5341.2	5165.1	5138.4	5021.0	4989.0	4882.3
5°	6216.3	6104.2	6168.2	6072.2	5981.5	5928.1	5640.0	5506.6	5319.8	5250.5	5101.1
7.5°	6632.5	6579.1	6557.8	6563.1	6477.7	6344.3	6216.3	5922.8	5672.0	5618.6	5303.8
10°	6835.2	6803.2	6835.2	6819.2	6856.6	6872.6	6648.5	6472.4	6104.2	6013.5	5522.6
12.5°	6883.2	6947.3	6974.0	7043.3	7134.0	7288.8	7272.8	7032.6	6541.8	6483.1	5858.8
15°	7000.6	7054.0	7027.3	7139.4	7310.1	7571.6	7710.3	7673.0	7144.7	7038.0	6248.3
17.5°	7107.4	7011.3	7102.0	7326.1	7496.9	7897.1	8233.2	8388.0	7801.0	7678.3	6605.8
20°	7251.4	7224.7	7208.7	7320.8	7624.9	8158.5	8825.5	9108.3	8537.4	8409.3	7118.0
22.5°	7689.0	7694.3	7683.6	7518.2	7737.0	8339.9	9343.1	10042.1	9417.8	9311.1	7699.6
25°	8265.2	8195.9	8142.5	8009.1	7982.4	8505.3	9866.0	11183.9	10474.3	10399.6	8329.3
27.5°	8873.5	8873.5	8713.4	8590.7	8420.0	8916.2	10346.2	12293.8	11749.5	11648.2	8878.9
30°	9535.2	9572.5	9551.2	9289.7	9183.0	9364.4	10837.1	13713.1	13211.6	13083.5	9785.9
32.5°	10511.6	10431.6	10522.3	10303.5	9988.7	10148.8	11610.8	14983.1	15111.1	14929.7	10975.8
35°	11802.9	11754.9	11696.2	11338.7	10965.2	11093.2	12704.7	16546.5	17496.2	17405.5	12176.4
37.5°	12960.8	12934.1	12886.1	12640.6	12208.4	12363.2	13947.9	18173.9	19822.7	19523.9	13873.2
40°	14177.4	14321.4	14166.7	13947.9	13553.1	13894.6	15409.9	19139.7	21780.9	21418.1	15169.8
42.5°	15826.1	15714.1	15783.4	15383.3	15169.8	15543.3	16877.3	20105.5	23301.7	22869.4	16546.5
45°	17581.6	17587.0	17400.2	17272.1	16717.2	17122.7	17779.0	20639.1	24512.9	24176.7	17587.0
47.5°	18707.5	18702.2	18904.9	19107.7	18536.7	18136.6	18392.7	21146.0	25137.2	24982.4	17965.8
50°	18531.4	18584.8	18846.2	19603.9	19902.7	19363.8	18968.9	20996.6	25420.0	25404.0	18291.3
52.5°	16119.6	16295.7	16733.2	17827.1	19331.8	19998.8	19571.9	21274.0	25558.7	25585.4	18776.9
55°	12272.5	12368.5	13200.9	14529.5	16194.3	18478.0	19331.8	21492.8	25665.4	25713.5	19363.8
56°	10645.0	10388.9	11589.5	12533.9	14524.2	17021.4	18723.5	21322.1	25601.4	25969.6	19657.3
57.5°	8035.8	7865.0	8836.2	10015.4	11931.0	14566.9	16834.6	20516.3	25169.2	25163.9	19235.7
60°	4887.6	4716.9	5463.9	6157.6	7230.1	8969.6	11376.0	16338.4	21279.4	21727.6	15575.3
62.5°	2908.0	3014.8	3751.1	4172.6	4519.5	4700.9	5885.4	9711.2	14198.7	14518.8	9663.2
65°	1936.9	1974.3	2529.2	3222.9	3377.6	2689.3	2395.8	3932.5	6157.6	5960.1	3985.9
67.5°	1195.2	1280.6	1696.8	2422.5	2683.9	1963.6	1136.5	1467.4	1696.8	1696.8	1152.5
70°	725.7	768.4	1131.2	1648.8	1840.9	1264.6	827.1	827.1	816.4	800.4	688.3
72.5°	346.8	373.5	576.3	848.4	864.4	667.0	640.3	699.0	683.0	677.7	570.9
75°	149.4	160.1	202.8	266.8	304.1	282.8	389.5	501.6	517.6	501.6	410.9
77.5°	48.0	53.4	74.7	96.0	101.4	122.7	165.4	208.1	240.1	224.1	202.8
80°	5.3	10.7	21.3	48.0	74.7	96.0	122.7	138.7	154.7	154.7	144.1
82.5°	5.3	5.3	21.3	42.7	69.4	90.7	117.4	133.4	154.7	160.1	149.4
85°	0.0	5.3	16.0	37.4	58.7	58.7	53.4	53.4	37.4	37.4	37.4
87.5°	0.0	0.0	5.3	5.3	5.3	10.7	10.7	10.7	10.7	10.7	10.7
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: P532399

CATALOG NUMBER: GALN-SA7D-730-U-T2-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4818.3	4818.3	4818.3	4818.3	4818.3	4818.3	4818.3	4818.3	4818.3	4818.3	4818.3
2.5°	4861.0	4850.3	4706.2	4615.5	4567.5	4471.4	4412.7	4370.1	4338.0	4300.7	4306.0
5°	4925.0	4887.6	4647.5	4482.1	4284.7	4178.0	4087.3	4012.6	3964.5	3953.9	3932.5
7.5°	5106.4	4909.0	4546.1	4247.3	3996.6	3889.8	3809.8	3761.8	3783.1	3735.1	3772.4
10°	5245.1	4951.7	4423.4	3991.2	3740.4	3660.4	3617.7	3655.1	3708.4	3687.1	3660.4
12.5°	5415.9	4994.4	4226.0	3745.8	3511.0	3452.3	3527.0	3596.4	3703.1	3745.8	3692.4
15°	5608.0	5042.4	3975.2	3463.0	3313.6	3361.6	3489.6	3612.4	3719.1	3772.4	3804.5
17.5°	5842.8	5026.4	3729.8	3238.9	3126.8	3265.5	3420.3	3532.3	3692.4	3772.4	3751.1
20°	6061.5	4973.0	3457.6	3014.8	3020.1	3148.2	3276.2	3457.6	3543.0	3649.7	3612.4
22.5°	6269.6	4877.0	3174.8	2860.0	2860.0	3057.4	3121.5	3238.9	3313.6	3366.9	3361.6
25°	6563.1	4695.5	2940.1	2710.6	2774.6	2902.7	2956.1	2993.4	2961.4	3004.1	3009.4
27.5°	6771.2	4508.8	2748.0	2577.2	2694.6	2790.6	2774.6	2753.3	2678.6	2619.9	2657.3
30°	6995.3	4290.0	2582.6	2486.5	2550.5	2635.9	2571.9	2507.8	2390.5	2294.4	2299.8
32.5°	7315.4	4188.6	2438.5	2379.8	2465.2	2475.8	2406.5	2310.4	2193.0	2102.3	2097.0
35°	7913.1	4124.6	2315.8	2310.4	2326.4	2331.8	2262.4	2145.0	2097.0	2022.3	2049.0
37.5°	8510.7	4092.6	2230.4	2209.0	2203.7	2209.0	2129.0	2017.0	2107.7	2102.3	2113.0
40°	9273.7	4236.7	2107.7	2081.0	2086.3	2086.3	1984.9	1952.9	2113.0	2129.0	2134.3
42.5°	10047.4	4418.1	2027.6	1942.2	1963.6	1963.6	1910.2	1872.9	1984.9	1878.2	1862.2
45°	10719.7	4684.9	1942.2	1803.5	1856.9	1883.6	1867.5	1803.5	1734.2	1552.7	1552.7
47.5°	10938.5	4919.7	1840.9	1670.1	1712.8	1830.2	1782.2	1648.8	1526.1	1376.6	1366.0
50°	11322.7	5175.8	1760.8	1515.4	1606.1	1750.2	1702.1	1568.7	1430.0	1323.3	1328.6
52.5°	11717.5	5469.2	1611.4	1334.0	1446.0	1686.1	1686.1	1536.7	1323.3	1248.6	1237.9
55°	12309.8	5458.6	1344.6	1093.8	1291.3	1590.1	1616.8	1376.6	1184.6	1125.9	1125.9
56°	12395.2	5213.1	1211.2	1024.5	1221.9	1563.4	1568.7	1334.0	1131.2	1067.2	1067.2
57.5°	11754.9	4706.2	1061.8	939.1	1136.5	1515.4	1520.7	1296.6	1088.5	997.8	987.1
60°	9044.3	3185.5	885.8	837.7	1029.8	1366.0	1392.7	1179.2	955.1	885.8	880.4
62.5°	5106.4	1766.2	779.0	757.7	885.8	1163.2	1243.3	1029.8	811.0	773.7	784.4
65°	2331.8	971.1	656.3	613.6	715.0	896.4	1003.1	848.4	667.0	624.3	624.3
67.5°	853.7	661.6	560.3	485.6	501.6	581.6	651.0	549.6	442.9	378.8	394.9
70°	608.3	554.9	490.9	421.5	389.5	378.8	373.5	309.5	218.8	170.7	181.4
72.5°	490.9	458.9	410.9	357.5	304.1	256.1	218.8	160.1	101.4	69.4	64.0
75°	352.2	336.2	298.8	256.1	213.4	181.4	149.4	101.4	53.4	26.7	26.7
77.5°	181.4	181.4	176.1	160.1	133.4	106.7	85.4	58.7	32.0	10.7	10.7
80°	138.7	149.4	154.7	138.7	122.7	96.0	69.4	42.7	21.3	5.3	5.3
82.5°	133.4	154.7	165.4	144.1	122.7	90.7	69.4	42.7	21.3	5.3	5.3
85°	32.0	32.0	48.0	53.4	69.4	74.7	58.7	37.4	16.0	5.3	5.3
87.5°	10.7	10.7	10.7	10.7	10.7	10.7	5.3	5.3	5.3	5.3	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)