

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: P532638

Luminaire Tested: **GALN-SA8A-730-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532638  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-730-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28673 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

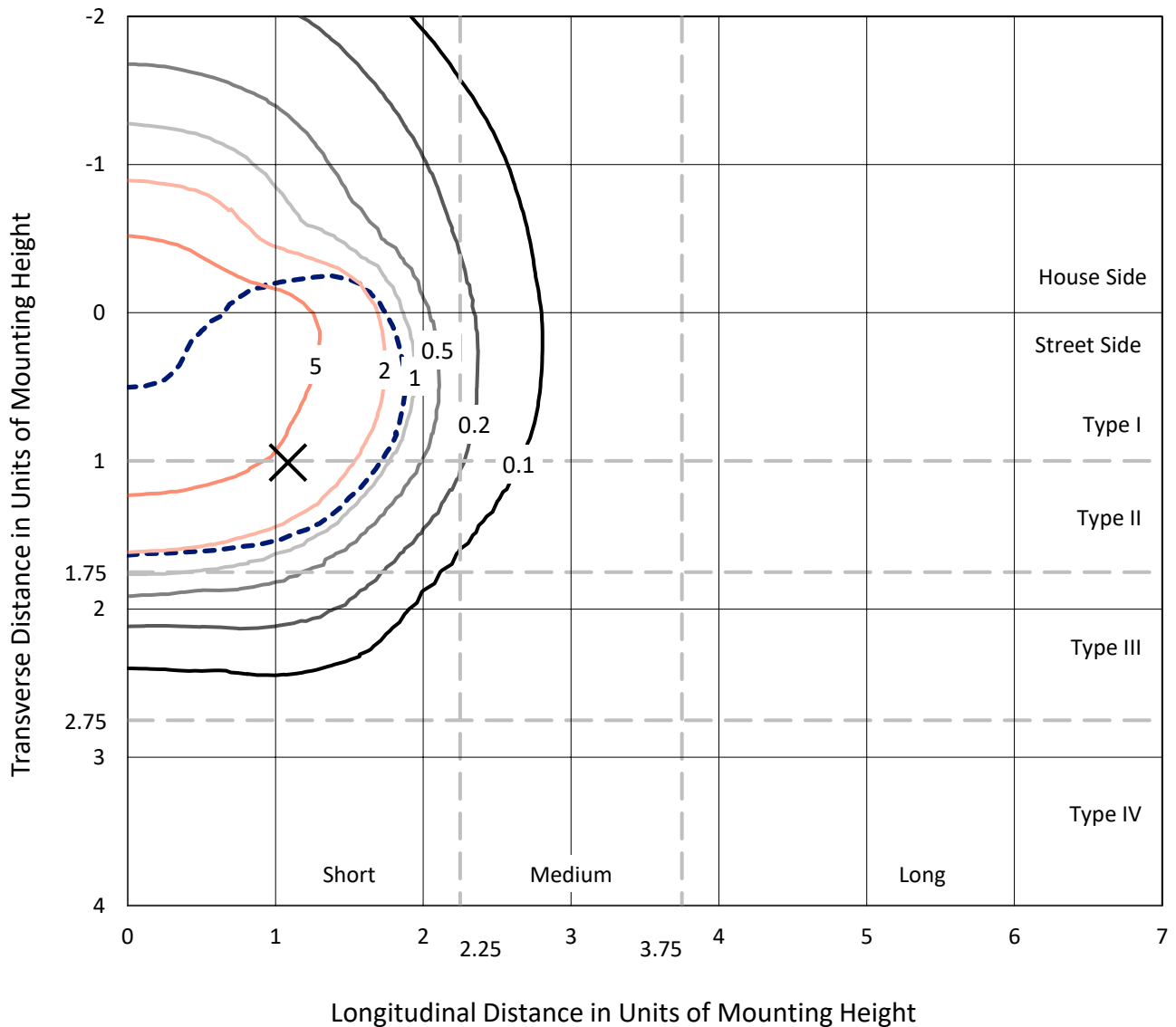
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P532638  
 CATALOG NUMBER: GALN-SA8A-730-U-T3-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

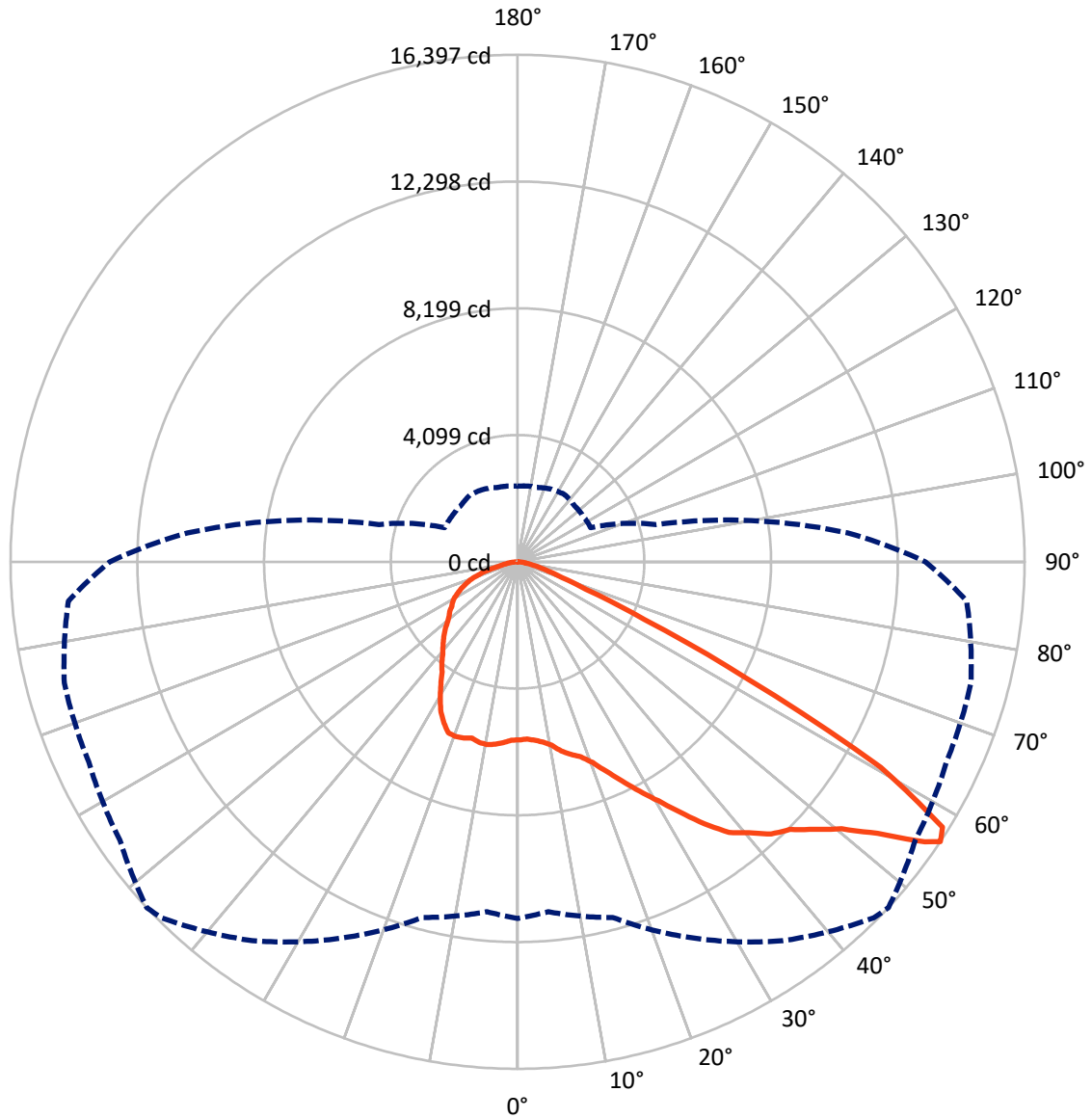
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P532638  
CATALOG NUMBER: GALN-SA8A-730-U-T3-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P532638  
 CATALOG NUMBER: GALN-SA8A-730-U-T3-GRSWH

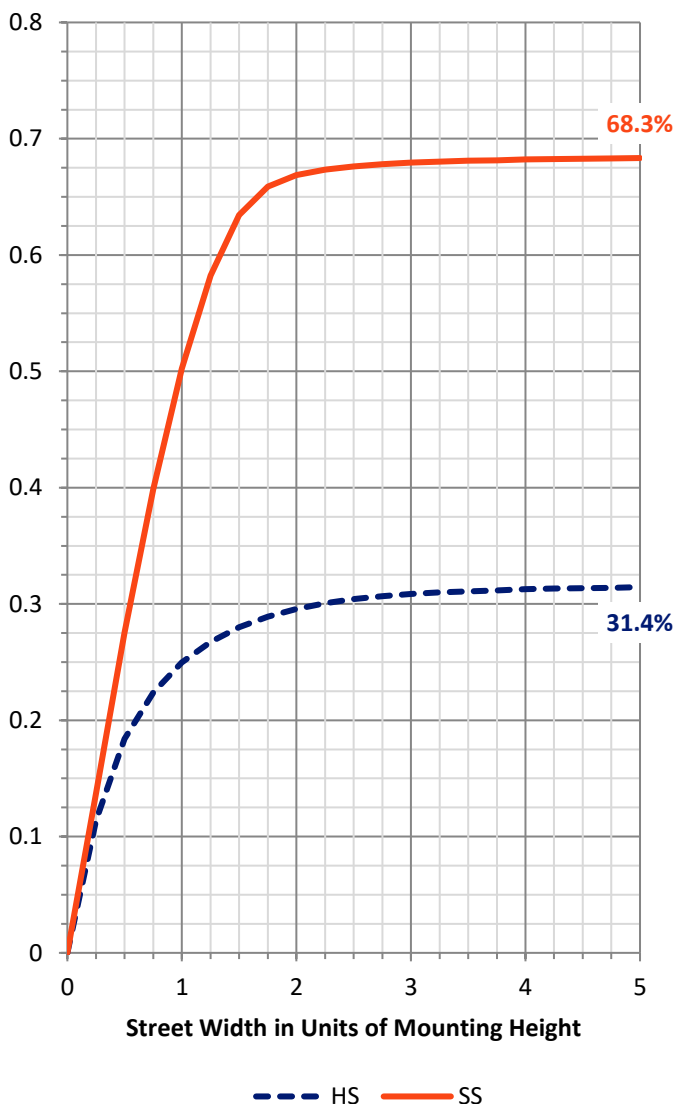
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9086.1	0.0	9086.1
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	19586.9	0.0	19586.9
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	28673.0	0.0	28673.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	561.2	2.0
10°-20°	1770.3	6.2
20°-30°	3129.4	10.9
30°-40°	4700.3	16.4
40°-50°	6450.7	22.5
50°-60°	7685.1	26.8
60°-70°	3288.8	11.5
70°-80°	930.7	3.2
80°-90°	156.6	0.5
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°	28673.0	100.0
0°-180°	28673.0	100.0

**Coefficient of Utilization**

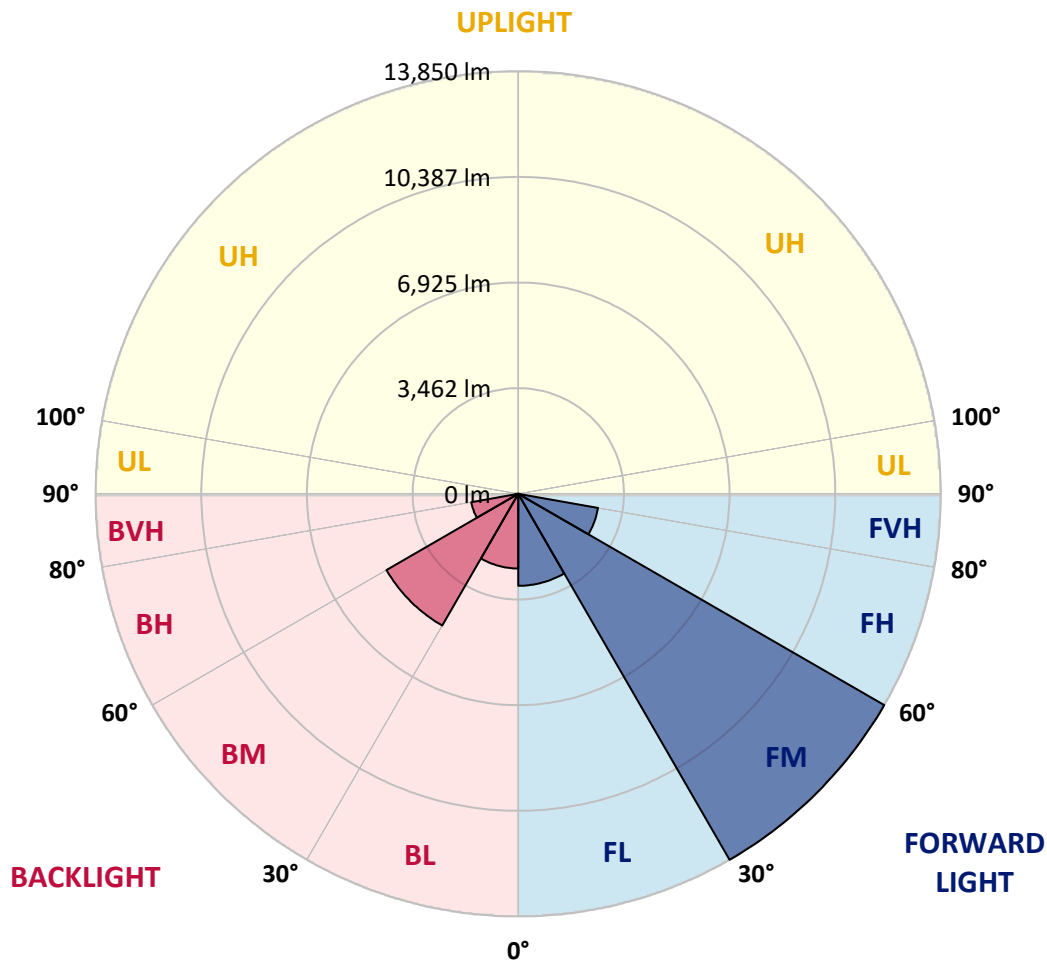


REPORT NUMBER: P532638  
 CATALOG NUMBER: GALN-SA8A-730-U-T3-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3014.5	10.5			
FM (30°-60°)	13849.7	48.3			
FH (60°-80°)	2656.2	9.3			G2/5000
FVH (80°-90°)	66.5	0.2			G1/100
BL (0°-30°)	2446.4	8.5	B3/2500		
BM (30°-60°)	4986.3	17.4	B3/5000		
BH (60°-80°)	1563.3	5.5	B3/2500		G3/2500
BVH (80°-90°)	90.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





REPORT NUMBER: P532638

CATALOG NUMBER: GALN-SA8A-730-U-T3-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5759.5	5759.5	5759.5	5759.5	5759.5	5759.5	5759.5	5759.5	5759.5	5759.5	5759.5
2.5°	5737.6	5726.6	5719.3	5777.8	5755.9	5759.5	5737.6	5759.5	5774.2	5741.3	5788.8
5°	5726.6	5759.5	5730.3	5748.6	5796.1	5781.5	5796.1	5840.0	5829.0	5818.0	5803.4
7.5°	5829.0	5832.7	5854.6	5861.9	5876.6	5861.9	5883.9	5924.1	5913.1	5851.0	5858.3
10°	5975.3	5982.6	5986.3	6026.5	6052.1	6055.7	6030.1	5993.6	5989.9	6074.0	6015.5
12.5°	6143.5	6125.2	6169.1	6183.7	6213.0	6245.9	6278.8	6202.0	6249.6	6253.2	6183.7
15°	6388.5	6406.8	6355.6	6355.6	6366.6	6370.2	6461.6	6425.1	6417.8	6377.5	6406.8
17.5°	6754.2	6629.9	6626.2	6575.0	6567.7	6597.0	6629.9	6659.1	6757.9	6677.4	6520.2
20°	7021.1	7050.4	6944.4	6882.2	6893.2	6959.0	6926.1	7057.7	7127.2	6995.5	6842.0
22.5°	7492.9	7394.1	7419.7	7280.8	7291.8	7361.2	7357.6	7492.9	7533.1	7324.7	7101.6
25°	7811.0	7785.4	7807.4	7697.7	7712.3	7767.1	7854.9	8078.0	8012.2	7781.8	7266.2
27.5°	8275.4	8224.2	8206.0	8165.7	8151.1	8297.4	8399.8	8637.5	8589.9	8253.5	7558.7
30°	8750.8	8717.9	8736.2	8571.7	8630.2	8941.0	8970.2	9295.7	9273.8	8681.4	7884.2
32.5°	9080.0	9098.2	9131.1	9039.7	9299.4	9548.0	9646.8	10016.1	10034.4	9416.4	8513.1
35°	9610.2	9548.0	9566.3	9672.4	9793.0	10246.5	10407.4	10652.4	10806.0	10188.0	9116.5
37.5°	9943.0	10008.8	9932.0	10100.2	10414.7	10959.6	11105.8	11358.2	11519.1	10948.6	9939.3
40°	10462.2	10356.2	10411.0	10531.7	10853.5	11563.0	11522.7	11782.4	11833.6	11595.9	10707.2
42.5°	11021.7	10970.5	10893.7	11168.0	11438.6	11954.2	12034.7	11914.0	12173.6	12228.5	11804.3
45°	11690.9	11753.1	11764.1	11771.4	12009.1	12458.9	12349.2	12243.1	12543.0	12941.6	12484.5
47.5°	12312.6	12115.1	12257.8	12455.2	12791.7	12795.3	12923.3	12671.0	12989.1	13343.8	13098.8
50°	12521.0	12426.0	12616.1	12989.1	13508.4	13563.2	13577.9	13219.5	13384.1	13665.6	13310.9
52.5°	12440.6	12407.7	12894.0	13471.8	14232.4	14510.4	14583.5	14141.0	14232.4	14104.5	13779.0
55°	12056.6	12155.4	12645.4	13822.9	14989.4	15848.8	15987.7	15428.2	14846.8	14945.5	14587.2
56°	11530.0	11358.2	11906.7	13424.3	14956.5	16283.9	16397.3	15698.8	15303.9	15175.9	14579.9
57.5°	9782.1	9559.0	10279.4	12078.6	14126.4	16119.4	16203.5	15812.2	15227.1	14967.5	13515.7
60°	5726.6	5836.3	6750.5	8330.3	10897.4	13215.8	13497.4	13782.7	13391.4	12228.5	10060.0
62.5°	2764.6	2695.1	3349.7	4775.8	6640.8	8436.3	8352.2	9153.1	9591.9	8688.7	6351.9
65°	1448.1	1440.8	1828.4	2607.3	3649.5	4432.1	4508.9	4940.4	5543.8	4476.0	3225.3
67.5°	1064.1	1093.4	1287.2	1832.1	2347.7	2395.2	2384.3	2600.0	2658.5	2249.0	1982.0
70°	833.8	848.4	991.0	1393.3	1748.0	1565.1	1532.2	1557.8	1729.7	1802.8	1715.1
72.5°	603.4	618.0	738.7	939.8	1093.4	1067.8	1089.7	1232.4	1444.5	1521.2	1429.8
75°	402.3	413.2	479.0	574.1	647.3	698.5	738.7	903.2	1100.7	1144.6	1100.7
77.5°	277.9	288.9	332.8	405.9	413.2	446.1	460.8	537.6	658.2	713.1	683.8
80°	157.2	157.2	179.2	208.4	256.0	299.9	307.2	369.3	424.2	460.8	468.1
82.5°	73.1	76.8	95.1	128.0	168.2	208.4	215.8	256.0	296.2	332.8	343.7
85°	36.6	40.2	54.9	76.8	102.4	124.3	120.7	124.3	131.6	124.3	128.0
87.5°	11.0	11.0	14.6	18.3	14.6	18.3	18.3	21.9	25.6	29.3	32.9
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: P532638

CATALOG NUMBER: GALN-SA8A-730-U-T3-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5759.5	5759.5	5759.5	5759.5	5759.5	5759.5	5759.5	5759.5	5759.5	5759.5	5759.5
2.5°	5792.4	5803.4	5730.3	5799.8	5774.2	5770.5	5821.7	5814.4	5832.7	5825.4	5781.5
5°	5796.1	5770.5	5847.3	5777.8	5810.7	5880.2	5832.7	5942.4	5887.5	5924.1	5843.6
7.5°	5909.5	5916.8	5902.2	5931.4	5916.8	5949.7	5924.1	5949.7	5905.8	5909.5	5982.6
10°	6008.2	5986.3	6011.9	5975.3	6000.9	5989.9	5931.4	5913.1	5927.7	5909.5	5957.0
12.5°	6191.0	6150.8	6132.5	6088.7	6059.4	5949.7	5858.3	5807.1	5876.6	5887.5	5865.6
15°	6377.5	6381.2	6297.1	6198.4	6015.5	5851.0	5872.9	5891.2	5891.2	5920.4	5865.6
17.5°	6494.6	6494.6	6417.8	6220.3	6033.8	5938.7	5916.8	5858.3	5807.1	5799.8	5796.1
20°	6699.3	6637.2	6461.6	6216.6	6026.5	5982.6	5818.0	5679.1	5573.0	5536.5	5532.8
22.5°	6933.4	6776.1	6531.1	6224.0	6015.5	5953.3	5646.2	5437.7	5247.6	5167.1	5178.1
25°	7149.1	6896.8	6571.4	6191.0	5975.3	5675.4	5331.7	5042.8	4845.3	4779.5	4746.6
27.5°	7299.1	7024.8	6571.4	6220.3	5825.4	5364.6	5013.5	4644.2	4472.3	4428.4	4435.8
30°	7500.2	7185.7	6684.7	6158.1	5525.5	4962.3	4541.8	4300.5	4198.1	4161.5	4187.1
32.5°	7971.9	7606.2	6842.0	6008.2	5170.8	4560.1	4220.0	4084.7	3934.8	3861.6	3836.0
35°	8483.9	8004.8	6995.5	5755.9	4772.2	4194.4	3982.3	3858.0	3678.8	3598.3	3613.0
37.5°	9207.9	8516.8	7006.5	5339.0	4340.7	3989.6	3795.8	3602.0	3455.7	3331.4	3294.8
40°	10184.3	9215.3	6980.9	4900.2	3993.3	3748.3	3605.7	3364.3	3199.7	3112.0	3130.3
42.5°	11043.7	10034.4	6874.9	4402.8	3678.8	3583.7	3422.8	3185.1	3024.2	2932.8	2925.5
45°	11767.7	10637.8	6673.7	3978.6	3415.5	3400.9	3214.4	3031.5	2903.5	2819.4	2856.0
47.5°	12436.9	11124.1	6370.2	3554.5	3174.1	3203.4	3024.2	2910.9	2830.4	2753.6	2749.9
50°	12678.3	11116.8	6103.3	3203.4	2980.3	2965.7	2958.4	2837.7	2753.6	2687.8	2717.0
52.5°	13080.5	11241.1	5814.4	2962.0	2804.8	2808.5	2834.1	2746.3	2651.2	2611.0	2647.6
55°	13658.3	11259.4	5178.1	2680.5	2658.5	2684.1	2684.1	2625.6	2545.2	2512.3	2494.0
56°	13186.6	10714.6	4644.2	2607.3	2585.4	2585.4	2654.9	2589.0	2490.3	2464.7	2442.8
57.5°	12162.7	9387.1	3887.2	2519.6	2486.7	2537.9	2574.4	2504.9	2413.5	2377.0	2398.9
60°	8388.8	6351.9	2921.8	2329.4	2329.4	2413.5	2442.8	2340.4	2300.2	2296.5	2267.2
62.5°	4896.5	3700.7	2285.5	2157.5	2164.9	2234.3	2256.3	2197.8	2146.6	2208.7	2238.0
65°	2596.4	2208.7	1960.1	1974.7	1978.4	2033.2	2128.3	2124.6	2121.0	2139.3	2142.9
67.5°	1879.6	1835.7	1780.9	1766.3	1773.6	1813.8	1908.9	1982.0	1978.4	1934.5	1901.6
70°	1674.8	1612.7	1579.8	1583.4	1554.2	1601.7	1678.5	1726.0	1641.9	1590.7	1568.8
72.5°	1393.3	1375.0	1353.0	1356.7	1298.2	1287.2	1199.4	1199.4	1177.5	1162.9	1188.5
75°	1064.1	1056.8	1067.8	1049.5	987.3	921.5	870.3	822.8	749.7	720.4	705.8
77.5°	672.9	694.8	720.4	680.2	654.6	607.0	555.8	508.3	449.8	416.9	416.9
80°	457.1	475.4	493.7	486.4	457.1	413.2	373.0	321.8	281.6	256.0	252.3
82.5°	347.4	362.0	387.6	358.4	329.1	292.5	259.6	223.1	186.5	157.2	157.2
85°	124.3	142.6	157.2	171.9	182.8	186.5	160.9	131.6	106.0	84.1	80.5
87.5°	32.9	36.6	40.2	36.6	36.6	36.6	40.2	36.6	32.9	25.6	25.6
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)