

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: P531694

Luminaire Tested: **GALN-SA7A-730-U-SLL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531694  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-730-U-SLL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21605 lumens  
Efficiency: N/A  
Efficacy: 100.5 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

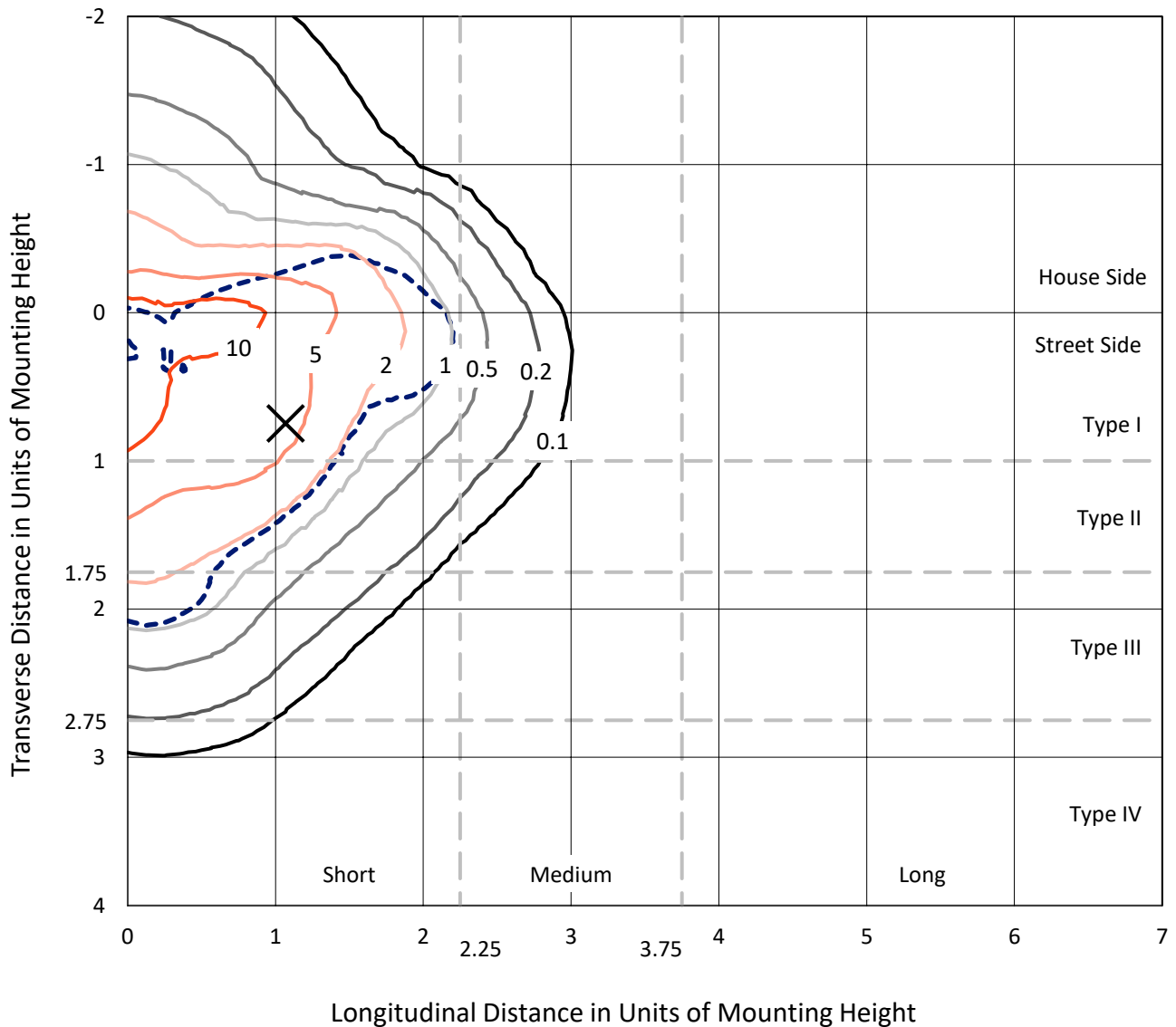
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

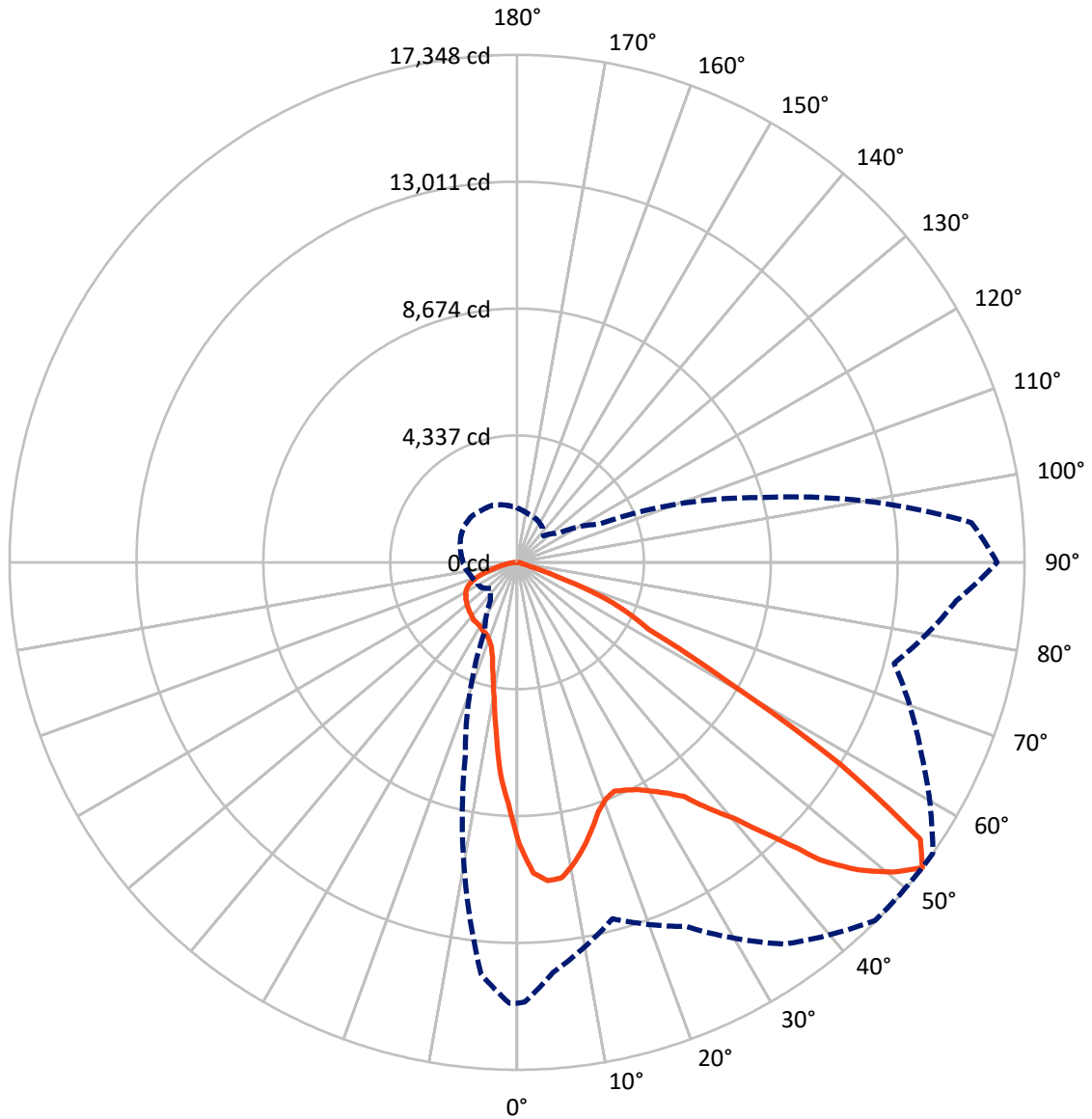
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 52.5-Deg Vertical

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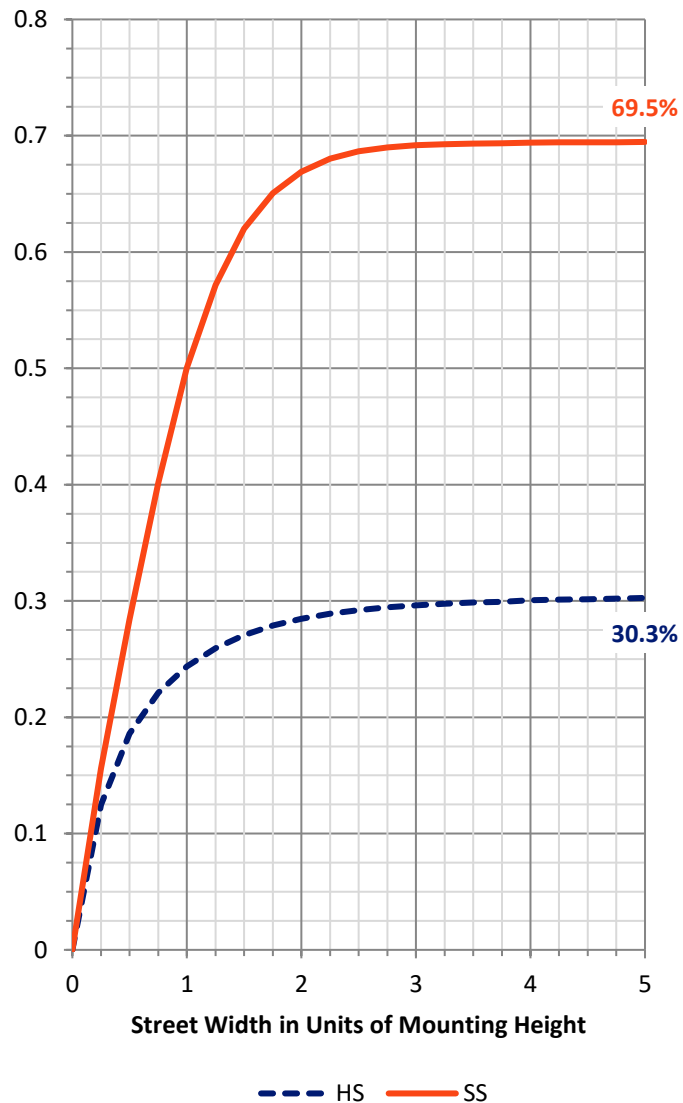
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6590.7	0.0	6590.7
	% Fixture	30.5	0.0	30.5
<b>Street Side</b>	Lumens	15014.3	0.0	15014.3
	% Fixture	69.5	0.0	69.5
<b>Total</b>	Lumens	21605.0	0.0	21605.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	736.3	3.4
10°-20°	1587.5	7.3
20°-30°	2407.2	11.1
30°-40°	3478.1	16.1
40°-50°	4647.6	21.5
50°-60°	5187.8	24.0
60°-70°	2845.7	13.2
70°-80°	615.2	2.8
80°-90°	99.5	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°	21605.0	100.0
0°-180°	21605.0	100.0

**Coefficient of Utilization**



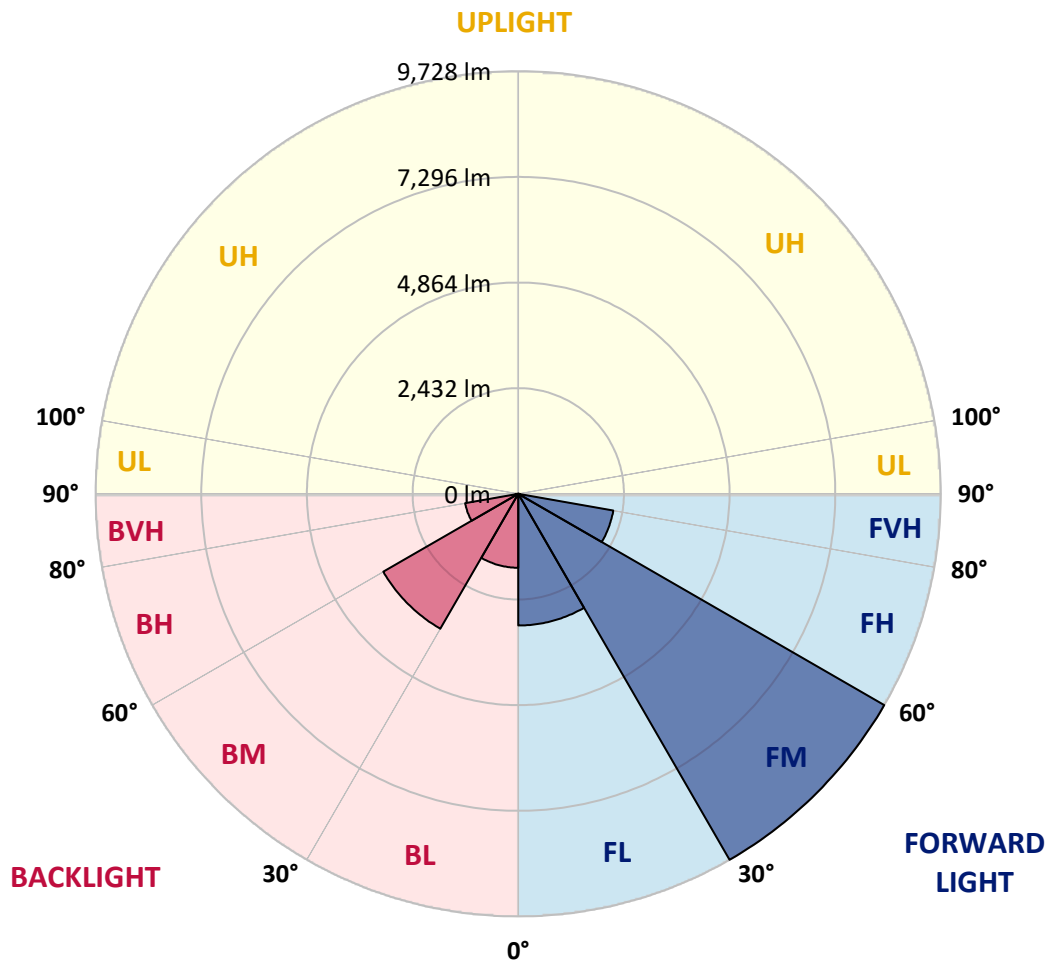
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3029.4	14.0			
FM (30°-60°)	9727.6	45.0			
FH (60°-80°)	2220.5	10.3			G2/5000
FVH (80°-90°)	36.8	0.2			G1/100
BL (0°-30°)	1701.6	7.9	B3/2500		
BM (30°-60°)	3585.9	16.6	B3/5000		
BH (60°-80°)	1240.5	5.7	B3/2500		G3/2500
BVH (80°-90°)	62.7	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5
2.5°	10113.9	10057.1	10107.5	10347.3	10486.1	10580.7	10640.7	10631.2	10404.1	10183.3	10183.3
5°	9817.3	9744.8	9848.9	10391.5	10937.2	10984.5	11063.4	10934.1	10599.7	10195.9	9691.1
7.5°	8959.2	9012.9	9186.4	9899.3	10609.1	10965.6	11060.3	10896.2	10353.6	9599.6	8858.3
10°	8217.9	8344.1	8744.7	9514.5	10167.5	10631.2	10735.3	10505.0	10076.0	9151.7	8489.2
12.5°	7962.4	7883.5	8328.3	9098.1	9722.7	9971.9	10019.2	10035.0	9744.8	8924.5	8117.0
15°	7930.8	7981.3	8328.3	8911.9	9296.8	9309.4	9388.3	9511.3	9549.2	9079.1	8290.5
17.5°	8385.1	8325.2	8681.6	9145.4	8962.4	8779.4	8798.4	8975.0	9287.3	9211.6	8836.2
20°	9057.0	9192.7	9473.5	9426.1	8934.0	8470.3	8473.4	8640.6	9255.8	9760.5	9596.5
22.5°	10173.8	10306.3	10514.5	9943.5	8934.0	8378.8	8271.5	8498.7	9457.7	10413.5	10454.6
25°	11192.8	11435.7	11492.4	10820.5	9382.0	8464.0	8394.6	8618.5	9659.6	11050.8	11438.8
27.5°	12120.2	12208.6	12457.8	11385.2	9631.2	8520.7	8514.4	8801.5	9915.1	11369.4	12319.0
30°	12852.1	12842.6	12984.6	11741.7	10028.7	8839.4	8533.4	9076.0	10249.5	11896.2	13132.9
32.5°	13350.5	13457.8	13757.5	12236.9	10195.9	9142.2	8902.5	9397.7	10656.5	12145.5	13707.0
35°	14227.5	14413.7	14035.1	12511.4	10725.9	9441.9	9161.1	9836.2	10858.4	12416.8	14410.5
37.5°	15054.1	14912.1	14527.2	12659.7	11069.7	9997.1	9735.3	10684.8	11486.1	13006.7	14877.4
40°	15584.0	15580.9	14896.3	12779.5	11312.6	10845.7	10830.0	11546.1	12255.9	13378.9	15401.1
42.5°	15814.3	16035.2	15047.8	12766.9	11823.7	11874.2	12192.8	12833.2	12801.6	13454.6	15388.5
44°	16129.8	16262.3	15309.6	12795.3	12164.4	12568.2	13319.0	13725.9	13278.0	13413.6	15372.7
45°	16117.2	16126.6	14937.3	12833.2	12454.6	13148.6	13820.6	14508.3	13697.6	13325.3	15580.9
47.5°	15748.1	15640.8	14621.9	12552.4	13360.0	14681.8	15303.3	15719.7	14214.9	13136.0	15322.2
50°	15019.4	14896.3	13855.3	12432.5	13549.3	15634.5	16492.6	16644.0	14685.0	12949.9	15066.7
52.5°	15069.8	15035.1	14073.0	12612.4	13738.6	15934.2	17309.6	17347.5	15218.1	13341.1	15069.8
55°	15972.1	15852.2	14697.6	12836.3	13599.8	15584.0	16789.1	16722.9	15038.3	13104.5	15347.4
57.5°	14615.6	14694.4	13833.2	11949.9	11902.6	12669.1	13199.1	13035.1	12549.3	11826.8	14278.0
60°	11792.1	12016.1	12098.1	9994.0	8981.3	8587.0	8429.3	8139.0	8221.1	9716.4	12542.9
62.5°	10113.9	10101.2	10615.4	9060.2	5883.5	5060.1	4984.4	5050.6	5997.0	9564.9	12284.3
65°	8019.2	8233.7	8391.4	7678.5	4656.3	3757.2	3754.1	4173.6	5189.4	7993.9	9918.3
67.5°	5091.6	5372.4	5568.0	4911.8	3113.7	2675.2	2602.6	3107.3	3596.3	5243.1	5971.8
70°	2870.7	3003.2	3091.6	2832.9	1981.1	1388.1	1306.0	1425.9	2173.6	3394.4	3539.5
72.5°	1107.3	1167.2	1287.1	1296.6	747.7	448.0	362.8	435.3	914.9	1343.9	1280.8
75°	170.4	183.0	258.7	309.2	214.5	164.0	173.5	179.8	255.5	347.0	290.2
77.5°	82.0	82.0	78.9	91.5	107.3	116.7	126.2	138.8	151.4	167.2	160.9
80°	53.6	53.6	53.6	63.1	78.9	94.6	107.3	113.6	119.9	132.5	126.2
82.5°	34.7	34.7	34.7	47.3	63.1	78.9	85.2	100.9	113.6	132.5	123.0
85°	18.9	18.9	18.9	31.5	47.3	66.2	63.1	50.5	28.4	3.2	6.3
87.5°	6.3	6.3	6.3	6.3	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5
2.5°	9918.3	9773.2	9760.5	9464.0	9199.0	9069.7	8965.6	8675.3	8738.4	8571.2	8568.1
5°	9438.8	9142.2	8662.7	8268.4	7874.0	7795.2	7451.3	7151.6	7161.1	6946.6	6984.4
7.5°	8577.5	8372.5	7788.9	7170.6	6646.9	6274.6	5949.7	5754.1	5504.9	5419.7	5375.5
10°	8031.8	7779.4	7123.2	6347.2	5760.4	5561.7	5249.4	5075.9	4820.3	4694.1	4605.8
12.5°	7792.0	7422.9	6602.7	5814.0	5422.9	5217.8	4952.8	4637.4	4334.5	4217.8	4056.9
15°	7817.3	7375.6	6451.3	5599.5	5129.5	4732.0	4495.4	4145.2	3836.1	3631.0	3514.3
17.5°	8199.0	7662.7	6520.7	5435.5	4760.4	4262.0	3798.2	3419.7	3173.6	3019.0	2981.2
20°	9101.2	8372.5	6637.4	5170.5	4391.3	3769.8	3198.8	2804.5	2615.2	2612.1	2615.2
22.5°	9852.0	9129.6	6874.0	5012.8	4022.2	3138.9	2571.1	2444.9	2407.0	2485.9	2495.3
25°	10864.7	9981.4	7281.0	4930.7	3681.5	2675.2	2325.0	2277.7	2274.5	2375.5	2378.6
27.5°	11902.6	10725.9	7523.9	4691.0	3334.5	2435.4	2176.7	2167.3	2217.7	2325.0	2315.5
30°	12609.2	11350.5	7962.4	4403.9	2924.4	2224.0	2116.8	2129.4	2198.8	2280.8	2293.4
32.5°	13432.6	11965.6	8075.9	4246.2	2672.0	2047.4	1971.7	2000.1	2088.4	2217.7	2287.1
35°	14375.8	12401.0	8249.4	4031.7	2577.4	1911.7	1873.9	1905.4	2012.7	2097.9	2173.6
37.5°	15073.0	13170.7	8281.0	3864.5	2473.3	1836.0	1776.1	1880.2	1943.3	2063.2	2101.0
40°	15590.4	13729.1	8363.0	3760.4	2391.2	1738.2	1738.2	1807.6	1892.8	2003.2	2078.9
42.5°	15921.6	14136.1	8423.0	3665.7	2233.5	1709.8	1694.1	1763.5	1877.0	1984.3	2019.0
44°	16123.5	14309.6	8363.0	3577.4	2189.3	1675.1	1675.1	1735.1	1823.4	1949.6	1990.6
45°	16174.0	14527.2	8230.5	3574.2	2135.7	1634.1	1627.8	1741.4	1801.3	1955.9	1981.1
47.5°	16369.6	14795.4	8246.3	3473.3	2006.4	1536.3	1646.7	1697.2	1750.8	1886.5	1971.7
50°	16363.2	14962.6	8211.6	3325.0	1911.7	1425.9	1608.9	1665.7	1719.3	1858.1	1892.8
52.5°	16407.4	15587.2	8530.2	3088.4	1741.4	1283.9	1482.7	1608.9	1675.1	1791.8	1864.4
55°	16385.3	15943.7	8845.7	2911.8	1501.6	1198.8	1375.4	1523.7	1618.3	1741.4	1776.1
57.5°	14965.7	14091.9	8186.4	2580.5	1242.9	1097.8	1224.0	1435.4	1555.2	1681.4	1725.6
60°	12227.5	10861.5	6751.0	1899.1	1022.1	1009.5	1138.8	1407.0	1457.5	1567.9	1643.6
62.5°	11300.0	9527.1	5353.5	1451.1	873.8	924.3	1050.5	1271.3	1350.2	1485.8	1555.2
65°	8842.5	6328.3	3315.6	981.1	769.7	829.7	949.6	1113.6	1242.9	1369.1	1451.1
67.5°	5236.7	3457.5	1640.4	687.7	671.9	735.0	858.1	981.1	1129.4	1268.2	1309.2
70°	2851.8	1700.4	700.3	523.7	571.0	627.8	747.7	832.8	974.8	1082.1	1151.5
72.5°	914.9	517.4	350.2	388.0	435.3	501.6	574.1	678.3	779.2	842.3	899.1
75°	220.8	217.7	249.2	271.3	315.5	365.9	425.9	479.5	558.4	618.3	668.8
77.5°	154.6	167.2	192.4	224.0	239.8	258.7	296.5	337.5	372.3	416.4	448.0
80°	119.9	129.3	148.3	164.0	179.8	195.6	214.5	230.3	252.4	280.8	296.5
82.5°	113.6	119.9	138.8	148.3	142.0	138.8	151.4	157.7	160.9	170.4	179.8
85°	9.5	0.0	6.3	22.1	53.6	78.9	85.2	85.2	82.0	88.3	88.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	12.6	9.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5
2.5°	8530.2	8423.0	8464.0	8514.4	8441.9	8274.7	8318.9	8299.9	8470.3	8457.7	8628.0
5°	7151.6	6984.4	7003.4	7249.4	7170.6	7255.7	7085.4	7063.3	7094.8	7110.6	7139.0
7.5°	5473.3	5451.3	5640.5	5848.7	5946.5	5845.6	5678.4	5640.5	5605.8	5536.4	5694.2
10°	4467.0	4473.3	4460.7	4618.4	4728.8	4706.8	4605.8	4593.2	4526.9	4501.7	4590.0
12.5°	3987.5	3902.3	3861.3	3810.8	3896.0	3952.8	3908.6	3877.1	3880.2	3911.8	3924.4
15°	3523.8	3470.1	3381.8	3325.0	3366.0	3337.6	3321.9	3385.0	3369.2	3362.9	3438.6
17.5°	3003.2	3047.4	3041.1	2978.0	3031.6	3009.6	3006.4	2962.2	2902.3	2858.1	2883.4
20°	2659.4	2741.4	2804.5	2807.7	2836.0	2832.9	2785.6	2649.9	2605.8	2596.3	2602.6
22.5°	2536.4	2580.5	2656.2	2763.5	2763.5	2713.0	2656.2	2498.5	2457.5	2413.3	2394.4
25°	2438.6	2523.7	2621.5	2634.1	2684.6	2637.3	2545.8	2466.9	2381.8	2321.8	2321.8
27.5°	2388.1	2482.7	2555.3	2577.4	2646.8	2608.9	2514.3	2413.3	2312.4	2309.2	2255.6
30°	2366.0	2454.3	2501.6	2555.3	2586.8	2526.9	2498.5	2391.2	2290.3	2265.0	2176.7
32.5°	2299.8	2425.9	2514.3	2501.6	2526.9	2501.6	2460.6	2372.3	2258.7	2202.0	2192.5
35°	2224.0	2350.2	2444.9	2511.1	2526.9	2473.3	2448.0	2328.1	2173.6	2145.2	2047.4
37.5°	2183.0	2258.7	2375.5	2482.7	2504.8	2476.4	2391.2	2268.2	2113.6	2082.1	1996.9
40°	2132.6	2230.3	2321.8	2410.2	2476.4	2407.0	2309.2	2189.3	2119.9	2025.3	2000.1
42.5°	2094.7	2205.1	2280.8	2378.6	2454.3	2362.8	2249.3	2167.3	2069.5	2006.4	1933.8
44°	2082.1	2183.0	2233.5	2353.4	2416.5	2347.1	2252.4	2167.3	2053.7	1996.9	1933.8
45°	2037.9	2176.7	2230.3	2337.6	2391.2	2334.5	2214.6	2129.4	2047.4	1978.0	1911.7
47.5°	1993.7	2088.4	2179.9	2265.0	2302.9	2284.0	2183.0	2078.9	1981.1	1940.1	1877.0
50°	1981.1	2075.8	2160.9	2239.8	2284.0	2246.1	2154.6	2053.7	1940.1	1873.9	1820.2
52.5°	1918.0	2034.8	2129.4	2154.6	2211.4	2189.3	2119.9	2009.5	1902.3	1845.5	1801.3
55°	1826.6	1949.6	2078.9	2110.5	2192.5	2157.8	2053.7	1949.6	1858.1	1772.9	1716.1
57.5°	1791.8	1911.7	2037.9	2078.9	2129.4	2072.6	2047.4	1937.0	1791.8	1747.7	1659.4
60°	1703.5	1854.9	1959.0	2053.7	2056.8	2041.1	1996.9	1870.7	1750.8	1668.8	1605.7
62.5°	1634.1	1776.1	1858.1	1946.4	2000.1	1955.9	1911.7	1795.0	1665.7	1574.2	1501.6
65°	1533.2	1662.5	1731.9	1785.5	1845.5	1839.2	1763.5	1678.3	1542.6	1470.1	1400.7
67.5°	1378.6	1492.2	1586.8	1637.3	1675.1	1665.7	1608.9	1548.9	1410.1	1337.6	1287.1
70°	1192.5	1309.2	1369.1	1397.5	1435.4	1454.3	1410.1	1381.7	1258.7	1164.1	1116.8
72.5°	959.0	1034.7	1123.1	1148.3	1164.1	1176.7	1176.7	1151.5	1025.3	987.4	905.4
75°	706.6	766.6	832.8	832.8	861.2	864.4	870.7	854.9	760.3	709.8	690.9
77.5°	479.5	523.7	577.3	599.4	618.3	615.2	612.0	567.8	517.4	495.3	476.4
80°	312.3	356.5	381.7	410.1	429.0	425.9	432.2	400.6	378.6	340.7	347.0
82.5°	186.1	220.8	246.1	280.8	280.8	290.2	290.2	280.8	258.7	239.8	239.8
85°	88.3	116.7	132.5	154.6	167.2	170.4	151.4	129.3	107.3	97.8	107.3
87.5°	15.8	22.1	31.5	28.4	34.7	31.5	31.5	31.5	31.5	25.2	28.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: GALN-SA7A-730-U-SLL-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5	9637.5
2.5°	8564.9	8722.6	8833.1	9016.0	9331.5	9583.9	9842.6	10035.0	10057.1	10113.9
5°	7243.1	7328.3	7609.1	7975.0	8233.7	8659.6	8934.0	9432.4	9618.6	9817.3
7.5°	5656.3	5795.1	6170.5	6416.6	6984.4	7517.6	8069.6	8684.8	8930.9	8959.2
10°	4769.9	4971.8	5227.3	5621.6	5930.8	6523.8	7211.6	7896.1	8170.6	8217.9
12.5°	4189.4	4448.1	4788.8	5072.7	5369.2	5886.6	6545.9	7391.4	7747.9	7962.4
15°	3631.0	3899.2	4274.6	4668.9	4930.7	5549.1	6325.1	7277.8	7741.5	7930.8
17.5°	3056.9	3306.1	3615.2	4041.1	4568.0	5262.0	6290.4	7656.4	8164.3	8385.1
20°	2564.7	2703.5	3063.2	3501.7	4161.0	4968.6	6303.0	8214.7	8959.2	9057.0
22.5°	2372.3	2403.9	2545.8	2949.6	3672.0	4668.9	6527.0	9006.6	9852.0	10173.8
25°	2224.0	2217.7	2255.6	2526.9	3315.6	4552.2	6747.8	9735.3	10842.6	11192.8
27.5°	2142.0	2078.9	2082.1	2337.6	3063.2	4362.9	7031.7	10571.3	11965.6	12120.2
30°	2101.0	2088.4	2050.5	2154.6	2788.7	4079.0	7079.1	11394.6	12628.1	12852.1
32.5°	2075.8	1952.7	1905.4	1943.3	2530.0	3769.8	7255.7	11937.3	13448.3	13350.5
35°	1949.6	1839.2	1807.6	1845.5	2347.1	3596.3	7139.0	12410.5	14063.5	14227.5
37.5°	1902.3	1804.5	1741.4	1709.8	2176.7	3451.2	7079.1	13139.2	14659.7	15054.1
40°	1858.1	1754.0	1678.3	1646.7	2044.2	3258.8	7060.1	13700.7	15347.4	15584.0
42.5°	1807.6	1741.4	1656.2	1599.4	1883.3	3066.3	6842.5	13874.2	15558.8	15814.3
44°	1791.8	1690.9	1602.6	1583.6	1820.2	2968.5	6798.3	14031.9	15741.8	16129.8
45°	1776.1	1681.4	1580.5	1555.2	1798.2	2914.9	6738.4	14069.8	16044.6	16117.2
47.5°	1731.9	1672.0	1574.2	1504.8	1750.8	2798.2	6558.5	13855.3	15735.5	15748.1
50°	1697.2	1627.8	1526.9	1391.2	1687.7	2700.4	6640.6	13776.4	14991.0	15019.4
52.5°	1659.4	1555.2	1498.5	1265.0	1583.6	2618.4	6814.1	14132.9	15076.1	15069.8
55°	1615.2	1501.6	1362.8	1157.8	1410.1	2514.3	7233.6	14836.4	15864.8	15972.1
57.5°	1545.8	1448.0	1249.2	1063.1	1211.4	2315.5	7098.0	13489.3	14596.6	14615.6
60°	1454.3	1362.8	1132.5	990.6	993.7	1826.6	6347.2	10511.3	11517.7	11792.1
62.5°	1366.0	1315.5	1034.7	886.5	845.5	1454.3	5366.1	8735.3	9886.7	10113.9
65°	1261.9	1138.8	949.6	807.6	725.6	1019.0	3801.4	6527.0	7713.2	8019.2
67.5°	1129.4	996.9	836.0	709.8	621.5	681.4	1962.2	3709.9	4911.8	5091.6
70°	987.4	864.4	703.5	599.4	501.6	470.0	864.4	1769.8	2684.6	2870.7
72.5°	810.7	697.2	561.5	473.2	375.4	324.9	290.2	473.2	952.7	1107.3
75°	586.8	507.9	422.7	337.5	265.0	208.2	170.4	142.0	157.7	170.4
77.5°	432.2	369.1	312.3	239.8	186.1	148.3	116.7	88.3	85.2	82.0
80°	337.5	299.7	249.2	192.4	145.1	110.4	82.0	59.9	53.6	53.6
82.5°	265.0	246.1	205.1	157.7	119.9	88.3	59.9	41.0	34.7	34.7
85°	100.9	100.9	148.3	129.3	91.5	63.1	41.0	22.1	18.9	18.9
87.5°	25.2	25.2	25.2	25.2	22.1	18.9	18.9	9.5	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)