

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: P451159

Luminaire Tested: **GALN-SA2A-730-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451159  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2A-730-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6015 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

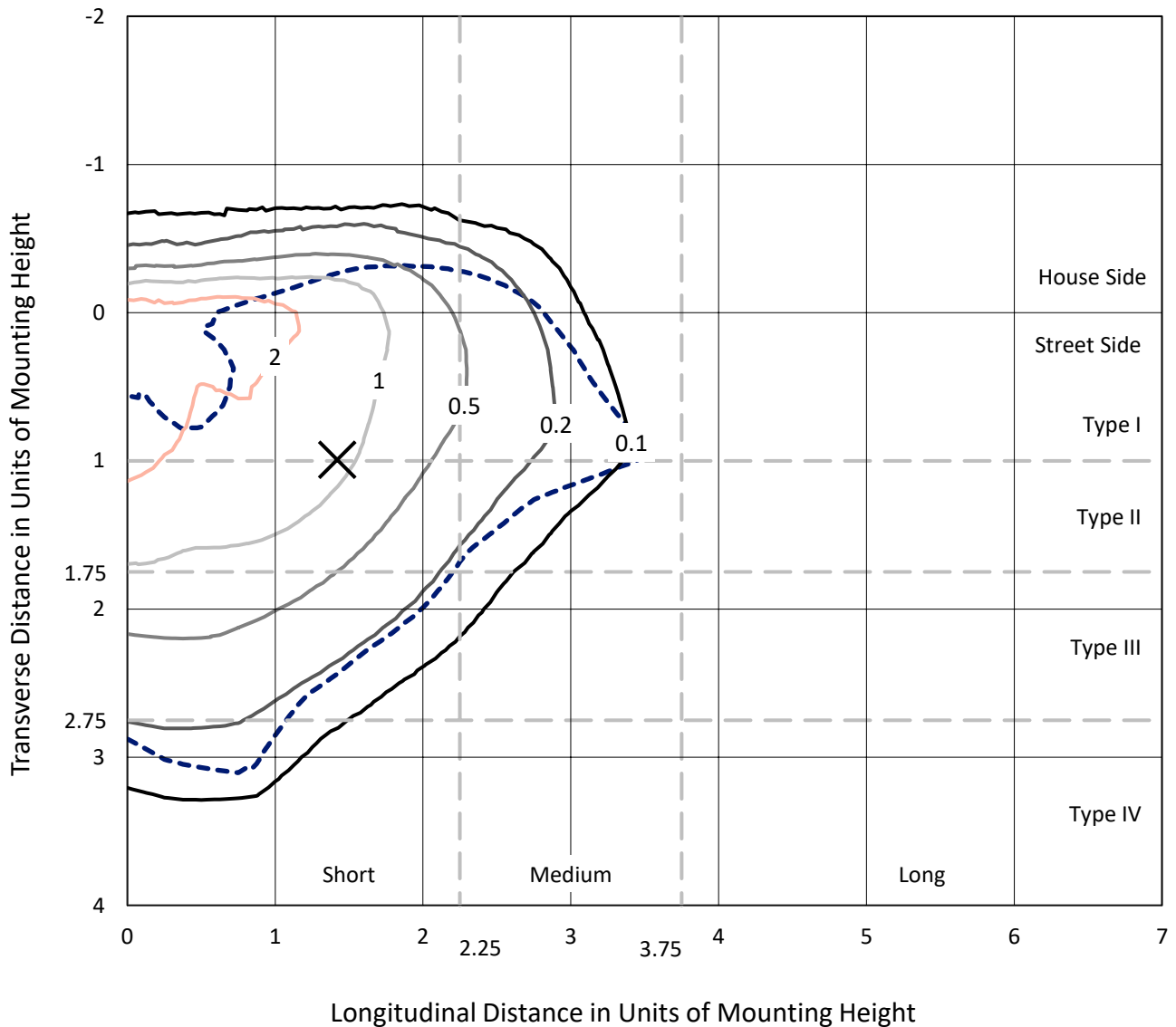
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

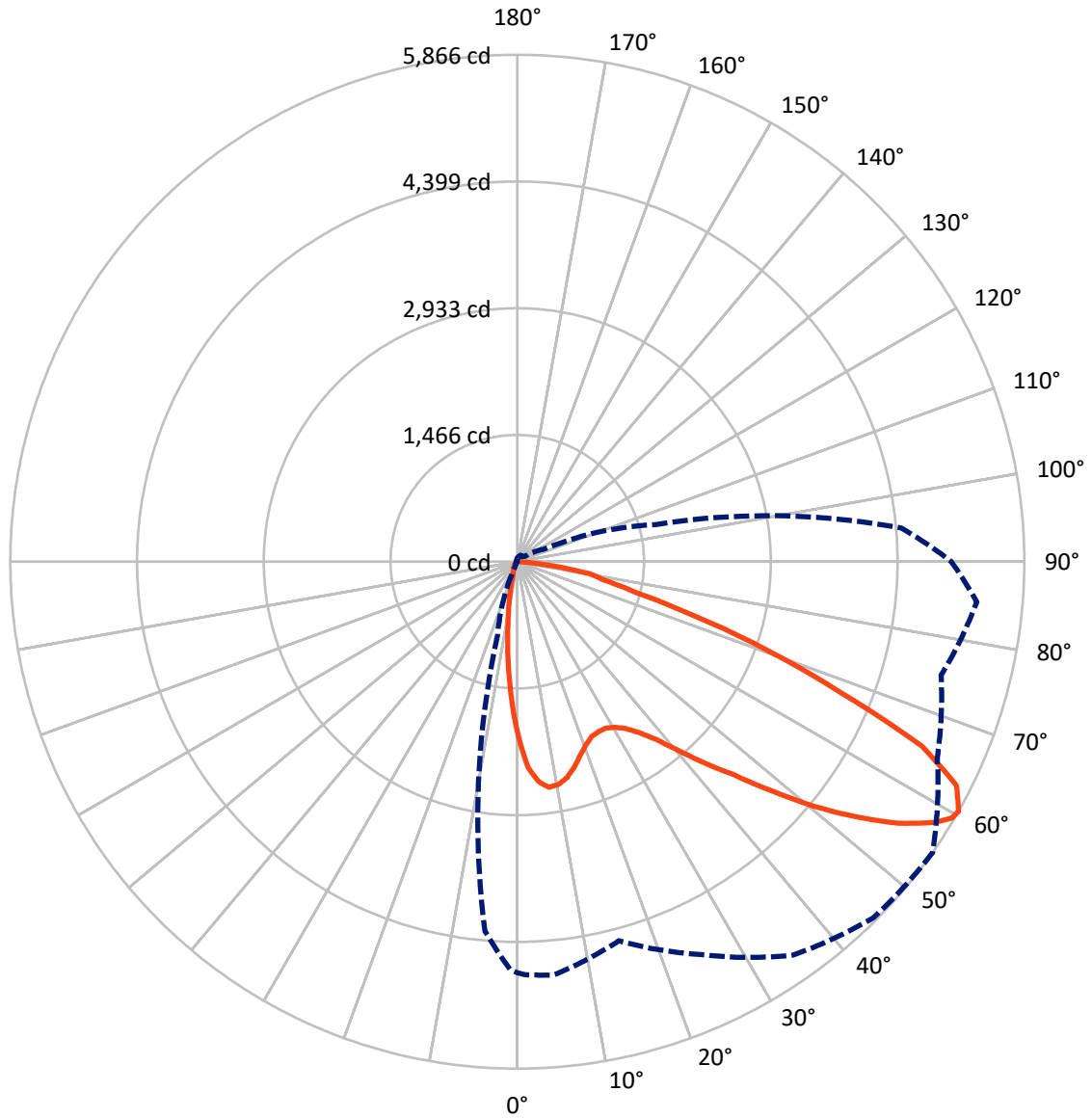
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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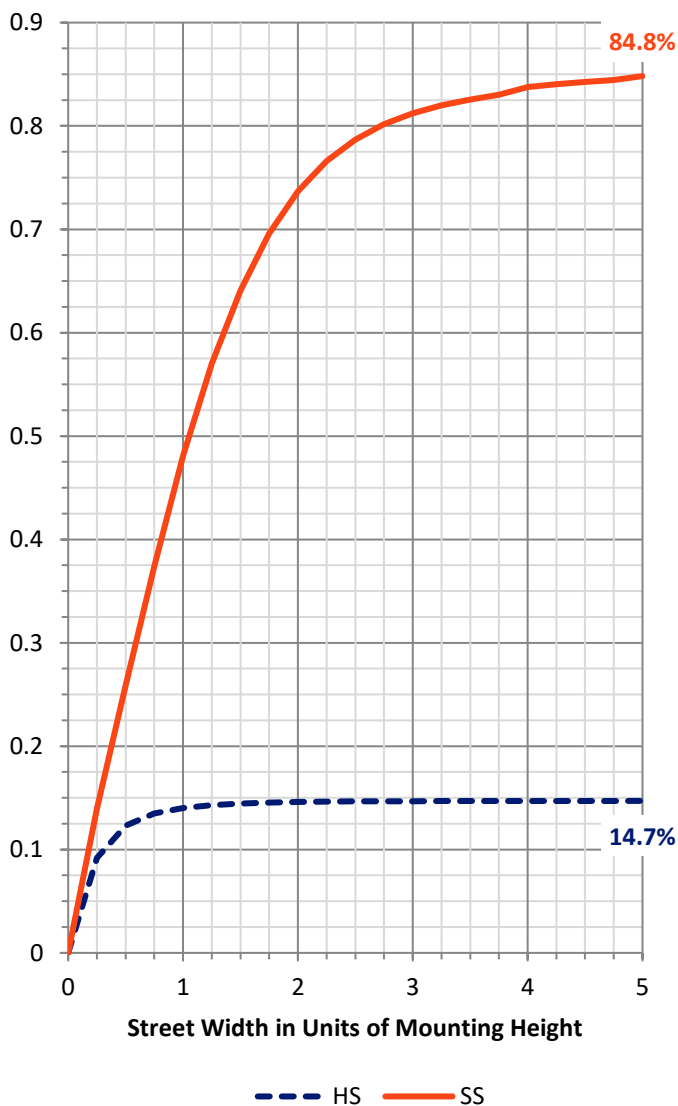
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	892.7	0.0	892.7
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	5122.3	0.0	5122.3
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	6015.0	0.0	6015.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.8	2.5
10°-20°	297.0	4.9
20°-30°	439.6	7.3
30°-40°	655.3	10.9
40°-50°	959.7	16.0
50°-60°	1385.5	23.0
60°-70°	1457.4	24.2
70°-80°	599.5	10.0
80°-90°	70.2	1.2
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°	6015.0	100.0
0°-180°	6015.0	100.0

**Coefficient of Utilization**

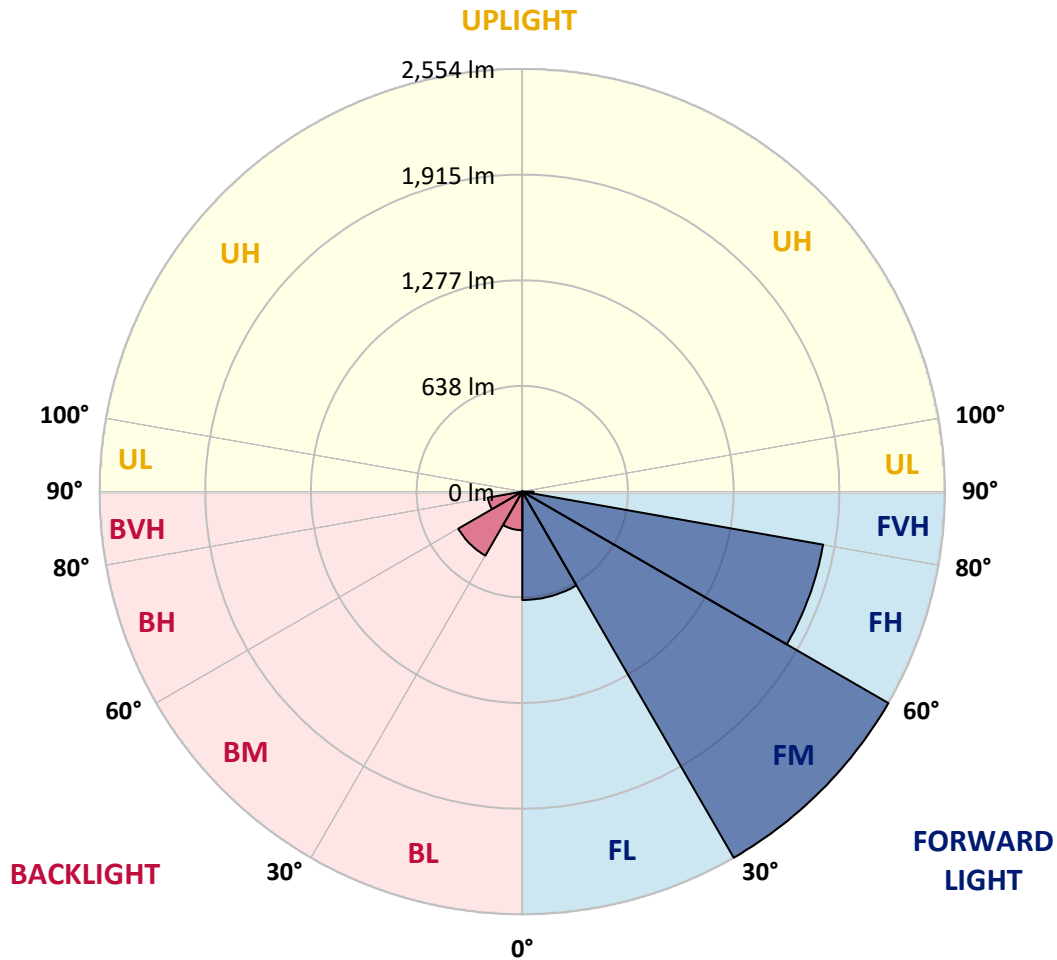


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	654.5	10.9			
FM	(30°-60°)	2554.0	42.5			
FH	(60°-80°)	1845.7	30.7			G2/5000
FVH	(80°-90°)	68.2	1.1			G1/100
BL	(0°-30°)	232.9	3.9	B1/500		
BM	(30°-60°)	446.4	7.4	B1/1000		
BH	(60°-80°)	211.3	3.5	B1/500		G1/500
BVH	(80°-90°)	2.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7
2.5°	2225.1	2221.4	2254.3	2308.0	2362.1	2390.4	2384.8	2382.5	2337.6	2304.7	2235.7
5°	2220.5	2239.4	2298.2	2443.6	2553.8	2607.1	2622.8	2556.6	2469.1	2342.2	2185.7
7.5°	2087.6	2111.2	2207.0	2434.4	2630.2	2746.0	2741.8	2635.8	2455.2	2258.9	2035.7
10°	1922.8	1950.5	2063.1	2339.0	2593.2	2746.0	2754.3	2620.0	2395.5	2143.6	1908.9
12.5°	1806.6	1839.4	1964.0	2250.1	2497.8	2648.3	2658.0	2560.8	2350.6	2099.2	1839.9
15°	1767.2	1798.2	1924.6	2205.2	2396.4	2477.4	2475.1	2464.9	2333.0	2109.8	1843.6
17.5°	1834.8	1860.3	2002.9	2225.6	2301.5	2293.2	2305.2	2354.3	2336.7	2199.2	1960.3
20°	2009.3	2035.3	2188.5	2288.1	2228.8	2176.0	2181.6	2263.5	2370.9	2367.2	2142.7
22.5°	2249.6	2293.6	2432.5	2409.4	2219.1	2103.3	2091.8	2198.2	2429.3	2560.8	2389.0
25°	2553.8	2598.3	2706.6	2602.9	2266.8	2086.2	2075.6	2178.3	2500.1	2749.7	2666.3
27.5°	2809.4	2843.2	2951.1	2791.3	2337.1	2093.6	2076.0	2181.1	2557.5	2910.3	2900.1
30°	3014.0	3039.0	3102.4	2879.3	2397.8	2126.0	2105.6	2221.9	2583.0	2988.6	3089.5
32.5°	3178.8	3221.0	3240.9	2973.3	2484.8	2187.1	2152.4	2300.1	2645.0	3085.3	3288.1
35°	3367.3	3415.9	3390.4	3063.1	2599.6	2282.5	2239.9	2427.0	2739.0	3174.7	3518.7
37.5°	3606.2	3662.2	3562.7	3157.5	2721.0	2426.0	2406.1	2605.2	2881.6	3302.5	3765.9
40°	3853.4	3885.8	3729.8	3272.4	2870.0	2634.8	2653.8	2870.0	3068.2	3455.7	4028.9
42.5°	4046.5	4077.0	3901.6	3368.7	3022.4	2882.5	2961.7	3189.5	3282.1	3612.7	4225.2
45°	4194.2	4220.1	4020.5	3473.8	3227.9	3241.3	3390.9	3518.7	3496.4	3708.5	4376.6
47.5°	4309.0	4331.2	4112.2	3586.7	3535.8	3680.3	3909.0	3963.1	3718.7	3812.2	4513.6
50°	4356.2	4362.7	4140.9	3730.7	3885.4	4239.5	4478.0	4445.1	3973.3	3927.5	4659.5
52.5°	4417.8	4416.4	4222.9	3867.8	4214.1	4739.6	4977.5	4903.0	4261.3	4100.2	4823.4
55°	4579.4	4581.2	4398.3	4062.2	4494.2	5143.3	5397.9	5343.8	4565.0	4391.9	5014.6
57.5°	4775.7	4782.6	4647.9	4289.5	4761.8	5435.9	5711.8	5691.0	4975.7	4716.4	5195.1
59°	4801.1	4815.0	4765.9	4449.7	4920.6	5525.7	5819.2	5839.6	5195.6	4930.3	5292.8
60°	4754.8	4778.0	4800.2	4540.5	5013.6	5558.1	5825.7	5865.5	5360.9	5075.7	5337.3
62.5°	4553.0	4589.6	4701.1	4819.7	5129.9	5457.2	5618.8	5702.1	5565.5	5457.6	5341.4
65°	4288.6	4307.6	4468.7	4869.2	4904.4	4985.9	5035.9	5142.8	5319.7	5604.9	5150.2
67.5°	3855.3	3911.3	4108.5	4581.7	4239.1	4142.8	4130.3	4023.8	4483.1	5253.9	4678.9
70°	3184.9	3209.9	3452.9	3756.2	3199.2	3051.1	3110.3	3070.5	3475.2	4522.9	3765.9
72.5°	2408.4	2464.9	2702.4	2994.1	2176.9	1984.8	2148.2	2133.4	2610.3	3634.9	2587.1
75°	1713.5	1750.1	2052.9	2343.2	1524.6	1291.7	1350.5	1405.6	1822.3	2870.0	1528.8
77.5°	1177.4	1208.8	1436.2	1549.6	1112.1	1065.3	974.6	1027.8	1194.0	1702.9	832.0
80°	710.2	708.8	858.4	886.1	774.6	899.6	754.7	847.3	721.8	728.7	322.2
82.5°	461.1	456.5	525.0	572.2	431.0	453.3	304.2	438.4	470.4	203.2	101.9
85°	206.5	215.3	252.3	332.9	188.9	100.5	62.0	134.7	200.5	102.3	0.0
87.5°	21.3	16.7	44.4	81.0	25.9	2.8	9.3	4.6	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°	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7
2.5°	2203.8	2176.9	2096.9	2021.8	1957.5	1878.8	1827.9	1747.8	1699.1	1684.3	1686.6
5°	2115.4	2038.1	1885.7	1764.0	1628.3	1551.0	1433.4	1320.4	1259.3	1236.6	1226.4
7.5°	1930.2	1847.3	1663.5	1472.3	1326.9	1191.3	1103.8	1004.2	936.2	880.1	870.4
10°	1792.7	1683.9	1456.1	1250.5	1135.7	1033.8	946.3	846.8	766.7	702.8	685.2
12.5°	1710.3	1588.5	1334.3	1162.1	1053.3	948.7	834.8	719.5	637.5	568.5	536.6
15°	1695.4	1554.2	1300.1	1098.7	964.4	838.0	686.6	562.1	477.8	412.5	392.6
17.5°	1784.8	1615.8	1295.0	1032.5	848.2	669.0	511.6	408.4	313.4	276.9	262.5
20°	1944.1	1724.6	1294.5	955.6	728.7	515.3	359.3	266.2	227.8	210.2	201.9
22.5°	2161.2	1872.8	1319.0	889.4	604.7	380.1	256.5	212.0	189.8	175.5	172.2
25°	2426.5	2092.2	1379.2	844.5	509.7	298.2	211.6	181.5	163.0	156.5	153.7
27.5°	2662.2	2302.4	1445.4	798.2	441.7	263.9	196.3	166.2	151.4	146.3	142.1
30°	2865.4	2493.2	1477.4	737.1	387.1	241.7	199.1	177.8	158.3	143.1	136.1
32.5°	3034.9	2639.5	1498.2	681.5	340.8	197.7	157.4	137.5	128.7	123.2	118.5
35°	3246.9	2797.8	1485.7	650.0	317.1	180.1	143.5	118.5	103.7	92.6	88.0
37.5°	3469.1	2956.1	1464.0	624.1	306.5	167.1	136.6	112.5	96.3	84.7	78.7
40°	3699.2	3102.9	1438.5	600.0	296.8	158.8	132.4	107.4	91.2	78.7	72.2
42.5°	3909.9	3246.0	1428.3	584.3	281.0	160.2	129.2	105.1	86.1	73.2	67.6
45°	4080.3	3381.6	1442.2	576.0	263.9	157.9	130.1	102.3	81.9	69.4	63.9
47.5°	4262.2	3573.3	1487.1	567.6	247.2	146.8	137.0	101.9	80.1	67.1	61.1
50°	4473.8	3818.7	1589.9	547.2	226.9	134.7	145.8	101.4	77.8	64.4	58.3
52.5°	4755.8	4097.4	1695.9	511.6	197.2	123.2	139.4	100.0	73.2	61.1	55.1
55°	5009.0	4390.9	1785.7	469.5	159.7	106.5	125.5	94.0	65.3	55.6	50.0
57.5°	5113.6	4556.7	1782.9	411.1	127.8	93.5	103.2	86.1	56.9	49.1	44.4
59°	5075.2	4535.8	1723.2	368.1	116.7	86.6	85.7	85.2	53.2	44.4	40.7
60°	5021.1	4459.9	1658.9	346.8	109.7	81.9	78.7	84.3	50.0	41.7	38.0
62.5°	4813.6	4145.1	1445.4	310.7	100.5	69.4	63.0	71.3	44.4	36.1	32.9
65°	4513.2	3661.3	1223.7	300.5	97.7	57.4	52.3	50.9	38.0	30.6	27.8
67.5°	3927.0	3098.3	991.2	293.5	98.6	48.2	45.8	38.4	31.5	25.5	23.6
70°	3144.1	2415.8	811.6	285.7	99.5	39.4	38.4	30.6	25.5	21.3	19.4
72.5°	1910.3	1432.0	638.9	248.2	96.8	31.5	34.3	23.1	18.5	15.3	14.4
75°	1181.1	980.1	396.3	193.1	63.9	23.1	24.1	14.4	12.5	9.7	9.7
77.5°	684.3	619.0	141.7	69.4	28.2	13.9	10.6	7.4	6.9	4.2	4.2
80°	283.8	227.3	49.1	23.6	15.3	6.5	2.3	0.5	0.0	0.0	0.0
82.5°	82.9	73.6	13.4	10.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7
2.5°	1647.3	1632.0	1625.1	1648.7	1626.9	1654.7	1633.4	1642.7	1670.0	1682.0	1713.0
5°	1232.9	1217.2	1209.8	1245.4	1243.6	1261.2	1259.3	1275.5	1289.4	1258.4	1290.3
7.5°	858.8	848.2	865.8	893.6	923.2	913.5	913.5	891.7	899.1	894.5	893.1
10°	653.3	616.7	607.4	606.5	617.6	619.9	607.4	577.3	588.5	591.7	611.1
12.5°	513.9	485.7	442.6	423.2	418.1	422.2	381.0	354.6	367.1	359.7	378.7
15°	368.5	345.4	319.9	298.2	292.1	283.8	238.9	207.4	203.7	205.1	208.3
17.5°	263.0	247.2	247.2	224.1	211.6	186.6	163.9	150.0	148.6	150.0	152.3
20°	194.0	185.7	184.7	178.7	164.8	148.2	132.4	129.6	128.7	131.0	132.0
22.5°	167.1	158.3	150.9	150.5	137.5	123.6	116.2	112.5	113.0	113.9	116.2
25°	149.5	140.3	132.4	127.8	118.5	108.8	101.9	100.0	100.0	101.4	101.9
27.5°	137.0	125.5	118.5	112.0	103.7	95.4	89.4	88.0	87.0	88.0	90.3
30°	128.2	116.7	107.9	98.2	91.7	83.8	78.7	76.9	76.4	76.9	78.7
32.5°	109.7	102.8	95.8	87.0	79.2	74.1	68.5	65.3	65.3	66.2	68.1
35°	82.9	79.2	78.7	76.4	69.9	64.4	57.9	54.6	54.6	56.5	57.4
37.5°	73.2	66.2	65.3	64.4	61.6	54.2	48.2	45.4	44.9	46.3	48.2
40°	66.7	58.8	54.6	53.7	54.2	45.8	39.4	36.6	36.6	37.0	38.9
42.5°	61.6	52.3	44.9	44.0	45.8	38.4	31.9	29.2	29.2	29.2	31.5
45°	57.4	46.8	38.0	33.3	36.1	31.5	25.9	23.1	22.2	23.1	24.1
47.5°	54.6	42.6	33.3	26.9	26.9	25.0	20.8	17.6	16.7	17.1	18.5
50°	52.3	38.9	28.2	21.8	19.4	19.9	15.7	13.4	12.5	12.5	13.9
52.5°	48.6	35.2	24.5	18.5	14.8	13.4	11.6	9.7	9.3	9.7	10.6
55°	44.0	31.9	21.3	15.3	11.6	9.3	8.3	6.9	6.5	6.9	8.3
57.5°	38.9	26.9	17.1	12.0	7.9	6.0	5.6	4.6	3.7	4.2	5.1
59°	35.6	24.1	14.8	9.7	6.0	4.2	4.2	3.2	2.3	2.8	4.2
60°	34.3	22.2	12.5	8.3	5.1	3.2	3.2	2.3	1.4	1.9	3.2
62.5°	29.2	18.5	9.7	5.1	2.3	0.5	1.4	0.5	0.0	0.5	1.4
65°	24.5	14.8	6.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.5
67.5°	20.4	11.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	16.2	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	11.1	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	6.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P451159  
 CATALOG NUMBER: GALN-SA2A-730-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7
2.5°	1714.9	1781.1	1821.8	1898.7	1977.4	2038.1	2114.0	2182.0	2210.3	2225.1
5°	1322.7	1414.9	1493.1	1610.3	1719.1	1851.5	1985.7	2144.1	2204.7	2220.5
7.5°	928.3	1022.3	1104.2	1239.9	1395.0	1572.3	1773.2	1974.2	2062.6	2087.6
10°	670.4	770.9	870.9	1006.5	1151.4	1343.6	1552.8	1801.5	1903.3	1922.8
12.5°	423.2	531.0	693.5	861.1	1014.4	1169.0	1388.0	1658.4	1770.9	1806.6
15°	245.4	325.9	448.6	667.2	862.1	1066.7	1305.6	1604.7	1730.6	1767.2
17.5°	164.4	192.1	276.4	443.5	701.0	972.3	1284.8	1648.7	1788.0	1834.8
20°	138.4	150.9	180.6	270.4	539.8	888.0	1290.3	1768.1	1951.0	2009.3
22.5°	121.8	133.3	152.3	194.5	376.9	783.4	1316.7	1939.0	2175.1	2249.6
25°	107.4	119.0	135.7	161.1	253.3	662.5	1374.6	2189.0	2471.9	2553.8
27.5°	95.4	106.0	120.4	142.1	194.9	527.8	1426.0	2432.5	2742.7	2809.4
30°	84.3	93.1	106.9	123.6	162.0	407.0	1451.9	2645.5	2939.9	3014.0
32.5°	73.2	81.5	94.9	108.3	133.3	310.2	1433.9	2802.0	3131.6	3178.8
35°	62.5	71.3	82.4	94.9	115.3	250.5	1343.6	2977.9	3330.2	3367.3
37.5°	53.7	61.1	72.7	82.4	104.2	200.5	1234.3	3136.2	3552.9	3606.2
40°	45.4	52.8	64.4	73.2	95.8	157.9	1135.7	3312.2	3787.7	3853.4
42.5°	37.0	45.8	56.0	70.4	82.4	120.4	1016.2	3454.8	3964.1	4046.5
45°	29.6	39.4	50.5	69.9	71.8	91.7	901.0	3565.9	4120.1	4194.2
47.5°	23.6	33.3	48.6	65.3	58.8	72.7	835.2	3682.1	4249.7	4309.0
50°	19.0	27.8	50.9	57.4	49.1	61.6	833.4	3811.7	4316.9	4356.2
52.5°	15.3	22.7	43.1	44.0	41.7	54.2	883.4	3957.6	4385.4	4417.8
55°	13.0	19.0	28.2	32.4	37.5	49.1	920.9	4182.1	4548.8	4579.4
57.5°	10.2	16.2	21.8	25.9	33.3	44.9	926.0	4355.3	4755.8	4775.7
59°	8.8	13.9	19.4	23.1	30.6	42.1	905.1	4365.9	4769.2	4801.1
60°	7.4	12.5	17.1	21.8	28.2	39.8	882.4	4288.6	4719.2	4754.8
62.5°	5.6	9.7	12.5	17.6	23.1	34.3	775.0	4018.7	4528.0	4553.0
65°	3.7	6.9	9.3	13.0	18.1	29.6	631.5	3668.7	4232.6	4288.6
67.5°	2.3	5.1	7.4	9.7	14.8	25.0	450.0	3146.0	3819.1	3855.3
70°	1.4	3.2	5.6	7.9	11.6	19.9	267.1	2486.7	3177.5	3184.9
72.5°	0.9	2.3	3.7	5.6	9.3	18.1	129.6	1620.9	2320.0	2408.4
75°	0.5	1.4	2.3	4.2	7.4	14.8	62.0	1082.9	1688.0	1713.5
77.5°	0.0	0.5	1.4	2.8	5.6	11.6	36.1	711.1	1151.0	1177.4
80°	0.0	0.0	0.9	2.3	4.2	7.4	21.8	419.5	697.3	710.2
82.5°	0.0	0.0	0.5	1.9	2.8	5.6	11.1	184.3	456.5	461.1
85°	0.0	0.0	0.5	1.9	2.3	3.7	4.2	25.0	202.8	206.5
87.5°	0.0	0.0	0.5	2.3	2.3	2.3	2.3	1.4	17.1	21.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)