

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: P650746

Luminaire Tested: **GALN-SA2C-840-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650746  
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-SA2C-840-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 1050mA 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: 8538.7 lumens  
Efficiency: N/A  
Efficacy: 79.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

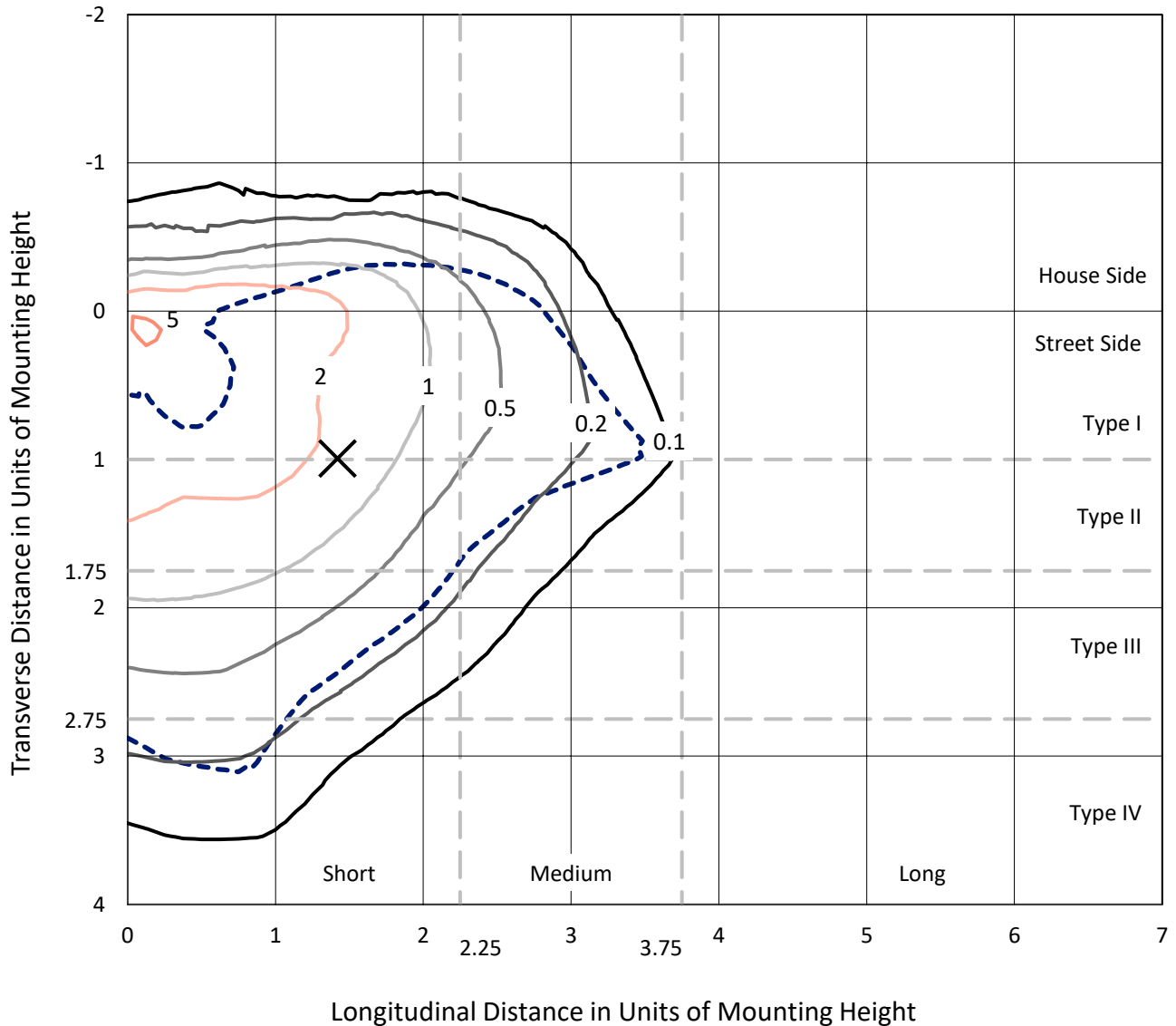
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

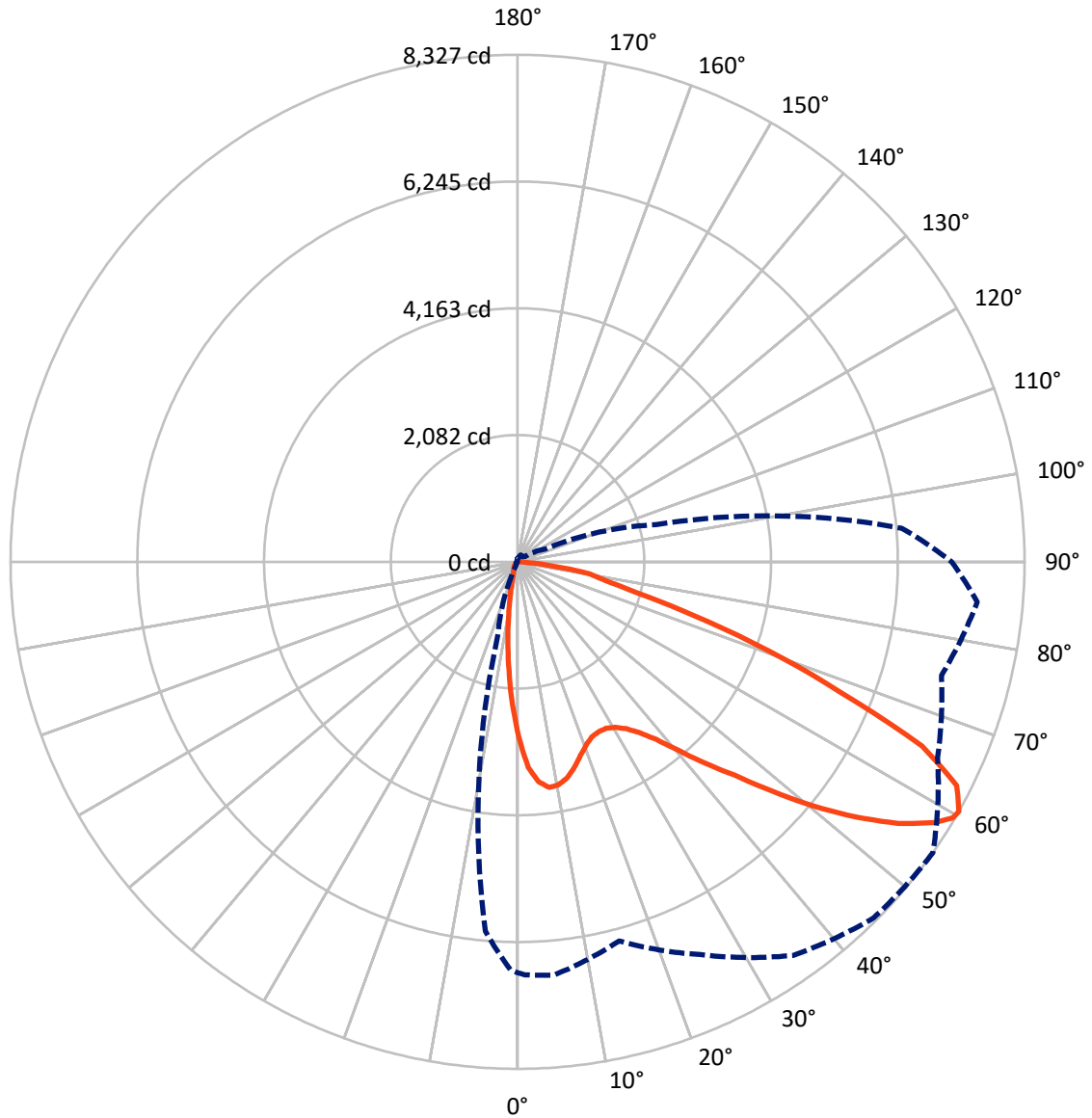
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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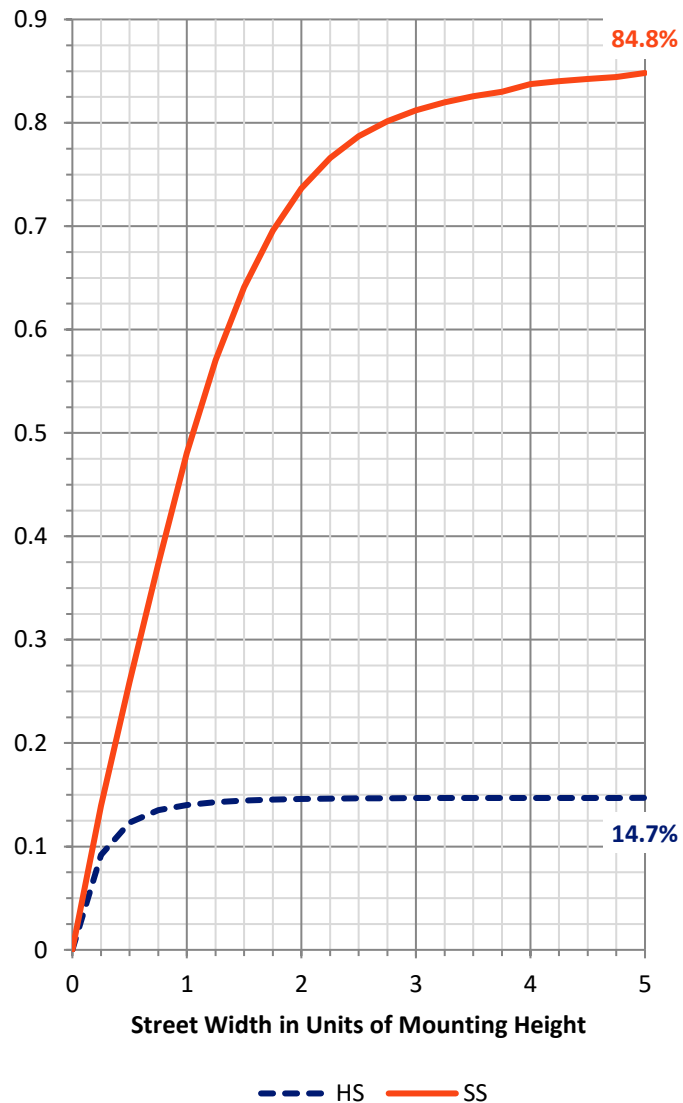
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1267.2	0.0	1267.2
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	7271.5	0.0	7271.5
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	8538.7	0.0	8538.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.1	2.5
10°-20°	421.6	4.9
20°-30°	624.1	7.3
30°-40°	930.2	10.9
40°-50°	1362.3	16.0
50°-60°	1966.7	23.0
60°-70°	2068.9	24.2
70°-80°	851.1	10.0
80°-90°	99.7	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°	8538.7	100.0
0°-180°	8538.7	100.0

**Coefficient of Utilization**

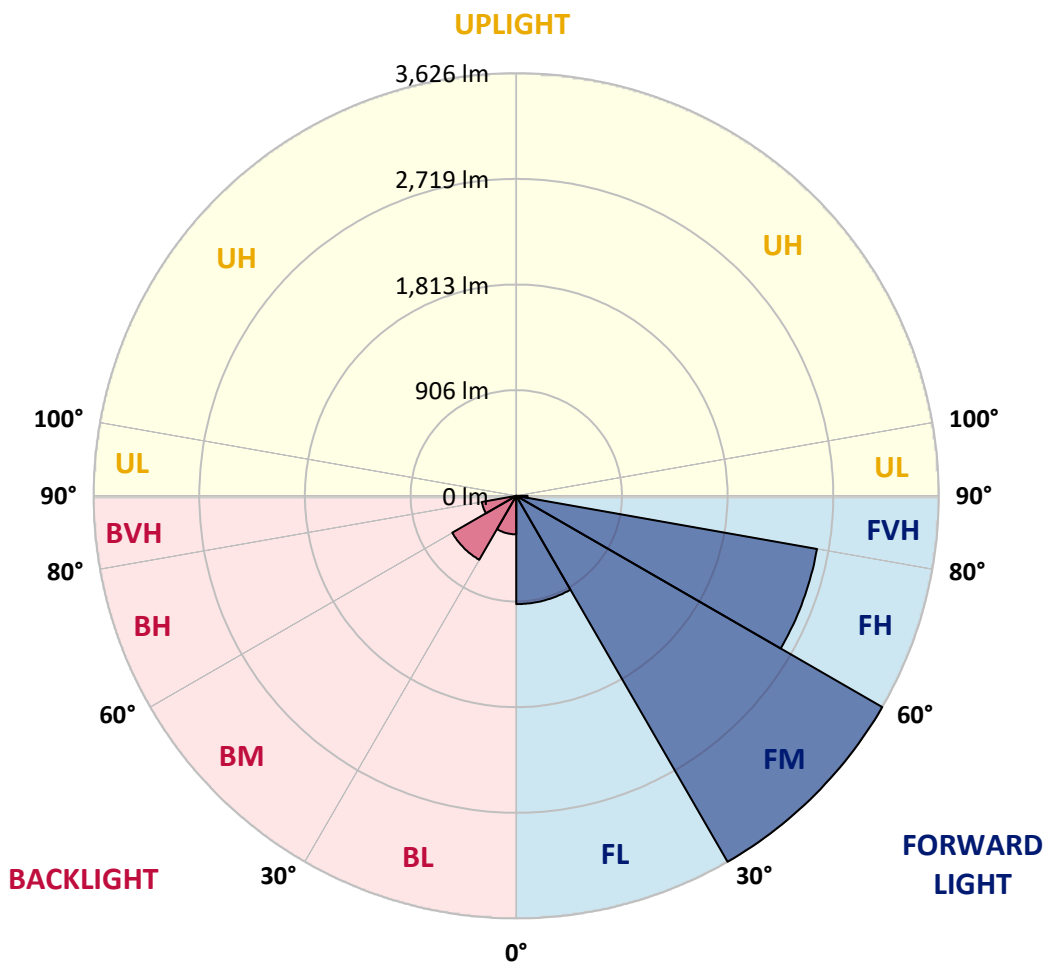


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	929.1	10.9			
FM (30°-60°)	3625.5	42.5			
FH (60°-80°)	2620.0	30.7			G2/5000
FVH (80°-90°)	96.7	1.1			G1/100
BL (0°-30°)	330.6	3.9	B1/500		
BM (30°-60°)	633.7	7.4	B1/1000		
BH (60°-80°)	299.9	3.5	B1/500		G1/500
BVH (80°-90°)	2.9	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°	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2
2.5°	3158.6	3153.4	3200.1	3276.3	3353.2	3393.3	3385.4	3382.2	3318.3	3271.7	3173.8
5°	3152.1	3179.1	3262.5	3468.9	3625.3	3700.9	3723.2	3629.3	3505.0	3325.0	3102.8
7.5°	2963.4	2997.0	3133.1	3455.8	3733.7	3898.0	3892.1	3741.6	3485.3	3206.6	2889.8
10°	2729.5	2768.9	2928.6	3320.4	3681.1	3898.0	3909.9	3719.3	3400.5	3043.0	2709.8
12.5°	2564.5	2611.2	2788.0	3194.1	3545.7	3759.4	3773.1	3635.1	3336.8	2979.9	2611.8
15°	2508.7	2552.7	2732.2	3130.4	3401.8	3516.9	3513.5	3499.1	3311.8	2995.1	2617.1
17.5°	2604.6	2640.7	2843.2	3159.3	3267.1	3255.3	3272.3	3342.0	3317.1	3121.9	2782.7
20°	2852.4	2889.2	3106.7	3248.0	3163.9	3089.0	3096.9	3213.2	3365.7	3360.5	3041.6
22.5°	3193.5	3255.9	3453.1	3420.3	3150.1	2985.8	2969.4	3120.5	3448.5	3635.1	3391.3
25°	3625.3	3688.4	3842.2	3694.9	3217.8	2961.5	2946.4	3092.3	3549.0	3903.3	3785.0
27.5°	3988.1	4036.0	4189.2	3962.5	3317.7	2972.0	2947.0	3096.2	3630.6	4131.4	4116.9
30°	4278.6	4314.1	4404.1	4087.3	3403.8	3018.0	2989.1	3154.1	3666.7	4242.4	4385.7
32.5°	4512.6	4572.3	4600.6	4220.7	3527.4	3104.8	3055.5	3265.1	3754.8	4379.8	4667.6
35°	4780.1	4849.0	4813.0	4348.2	3690.4	3240.1	3179.7	3445.2	3888.2	4506.7	4995.0
37.5°	5119.2	5198.7	5057.4	4482.4	3862.5	3443.9	3415.6	3698.2	4090.6	4688.1	5345.9
40°	5470.1	5516.2	5294.7	4645.3	4074.2	3740.3	3767.3	4074.2	4355.5	4905.6	5719.2
42.5°	5744.2	5787.6	5538.5	4782.0	4290.4	4092.0	4204.3	4527.7	4659.1	5128.4	5997.9
45°	5953.9	5990.7	5707.4	4931.2	4582.3	4601.3	4813.5	4995.0	4963.4	5264.4	6212.8
47.5°	6116.8	6148.4	5837.5	5091.6	5019.3	5224.4	5549.0	5626.0	5278.9	5411.7	6407.4
50°	6183.9	6193.1	5878.3	5296.0	5515.5	6018.3	6356.8	6310.1	5640.4	5575.3	6614.4
52.5°	6271.3	6269.3	5994.6	5490.6	5982.1	6728.1	7065.9	6960.1	6049.1	5820.5	6847.1
55°	6500.7	6503.4	6243.8	5766.6	6379.7	7301.2	7662.7	7585.8	6480.3	6234.5	7118.5
57.5°	6779.4	6789.2	6598.0	6089.3	6759.6	7716.6	8108.3	8078.7	7063.3	6695.2	7374.8
59°	6815.5	6835.2	6765.6	6316.7	6985.1	7844.1	8260.8	8289.7	7375.5	6998.9	7513.5
60°	6749.8	6782.7	6814.2	6445.5	7117.2	7890.1	8270.0	8326.5	7610.1	7205.3	7576.6
62.5°	6463.3	6515.1	6673.6	6841.8	7282.1	7746.8	7976.2	8094.5	7900.6	7747.5	7582.5
65°	6087.9	6114.9	6343.6	6912.1	6962.1	7077.8	7148.8	7300.6	7551.6	7956.4	7311.1
67.5°	5472.8	5552.3	5832.3	6504.0	6017.6	5880.9	5863.2	5712.0	6364.0	7458.3	6642.0
70°	4521.1	4556.6	4901.7	5332.1	4541.5	4331.2	4415.3	4358.7	4933.2	6420.5	5345.9
72.5°	3418.9	3499.1	3836.3	4250.3	3090.3	2817.6	3049.6	3028.5	3705.4	5160.0	3672.6
75°	2432.4	2484.3	2914.1	3326.2	2164.2	1833.7	1917.1	1995.4	2586.8	4074.2	2170.2
77.5°	1671.3	1716.1	2038.8	2199.7	1578.6	1512.3	1383.4	1459.1	1695.0	2417.3	1181.0
80°	1008.2	1006.3	1218.5	1258.0	1099.5	1277.0	1071.3	1202.7	1024.6	1034.5	457.4
82.5°	654.6	648.0	745.3	812.3	611.9	643.4	431.8	622.4	667.8	288.5	144.6
85°	293.1	305.6	358.2	472.6	268.1	142.6	88.1	191.2	284.6	145.2	0.0
87.5°	30.2	23.6	63.1	115.0	36.8	4.0	13.1	6.6	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°	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2
2.5°	3128.4	3090.3	2976.6	2870.2	2778.7	2667.1	2594.7	2481.0	2412.1	2391.0	2394.3
5°	3002.9	2893.1	2676.9	2504.1	2311.5	2201.7	2034.8	1874.4	1787.7	1755.5	1741.0
7.5°	2740.0	2622.3	2361.4	2090.0	1883.7	1691.1	1566.9	1425.6	1328.9	1249.4	1235.6
10°	2544.8	2390.4	2067.0	1775.2	1612.2	1467.6	1343.4	1202.0	1088.3	997.7	972.7
12.5°	2427.8	2255.0	1894.2	1649.6	1495.2	1346.7	1185.0	1021.3	905.0	807.1	761.7
15°	2406.8	2206.4	1845.5	1559.6	1369.0	1189.6	974.7	797.9	678.3	585.6	557.3
17.5°	2533.6	2293.7	1838.3	1465.6	1204.1	949.7	726.2	579.7	445.0	393.0	372.6
20°	2759.7	2448.2	1837.6	1356.5	1034.5	731.5	510.0	377.9	323.4	298.4	286.5
22.5°	3068.0	2658.5	1872.5	1262.5	858.3	539.6	364.1	301.0	269.5	249.1	244.5
25°	3444.6	2970.1	1957.9	1198.8	723.6	423.3	300.3	257.6	231.4	222.1	218.2
27.5°	3779.1	3268.5	2051.9	1133.1	627.0	374.6	278.7	236.0	214.9	207.7	201.8
30°	4067.6	3539.2	2097.2	1046.3	549.4	343.0	282.6	252.4	224.8	203.1	193.3
32.5°	4308.2	3746.9	2126.8	967.5	483.7	280.6	223.5	195.2	182.7	174.8	168.3
35°	4609.2	3971.6	2109.1	922.7	450.2	255.7	203.8	168.3	147.3	131.4	124.9
37.5°	4924.6	4196.4	2078.2	885.9	435.0	237.2	193.9	159.7	136.7	120.3	111.8
40°	5251.3	4404.8	2042.0	851.8	421.3	225.5	188.0	152.5	129.5	111.8	102.5
42.5°	5550.3	4607.8	2027.6	829.4	399.0	227.4	183.3	149.2	122.3	103.9	96.0
45°	5792.2	4800.4	2047.2	817.6	374.6	224.1	184.7	145.2	116.3	98.6	90.7
47.5°	6050.5	5072.5	2111.0	805.8	350.9	208.3	194.5	144.6	113.7	95.3	86.8
50°	6350.8	5420.8	2256.9	776.8	322.0	191.2	207.1	143.9	110.4	91.3	82.8
52.5°	6751.1	5816.5	2407.4	726.2	280.0	174.8	197.8	142.0	103.9	86.8	78.2
55°	7110.6	6233.2	2534.9	666.4	226.7	151.1	178.1	133.4	92.7	78.9	71.0
57.5°	7259.2	6468.5	2531.0	583.7	181.4	132.8	146.6	122.3	80.8	69.6	63.1
59°	7204.6	6438.9	2446.2	522.5	165.6	122.9	121.6	120.9	75.6	63.1	57.9
60°	7127.7	6331.1	2354.9	492.2	155.8	116.3	111.8	119.6	71.0	59.1	53.9
62.5°	6833.3	5884.2	2051.9	441.0	142.6	98.6	89.4	101.2	63.1	51.3	46.7
65°	6406.7	5197.4	1737.1	426.6	138.7	81.5	74.3	72.3	53.9	43.4	39.4
67.5°	5574.7	4398.2	1407.2	416.7	140.0	68.4	65.1	54.6	44.7	36.2	33.6
70°	4463.3	3429.4	1152.2	405.5	141.3	55.8	54.6	43.4	36.2	30.2	27.6
72.5°	2711.7	2032.9	907.0	352.3	137.3	44.7	48.6	32.9	26.3	21.7	20.4
75°	1676.6	1391.4	562.6	274.1	90.7	32.9	34.1	20.4	17.7	13.8	13.8
77.5°	971.4	878.8	201.1	98.6	40.1	19.7	15.1	10.5	9.8	5.9	5.9
80°	402.9	322.7	69.6	33.6	21.7	9.2	3.3	0.7	0.0	0.0	0.0
82.5°	117.7	104.5	19.1	15.1	6.6	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°	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2
2.5°	2338.4	2316.8	2306.9	2340.4	2309.6	2348.9	2318.7	2331.8	2370.6	2387.8	2431.8
5°	1750.2	1727.8	1717.3	1768.0	1765.3	1790.3	1787.7	1810.7	1830.4	1786.4	1831.7
7.5°	1219.2	1204.1	1229.0	1268.5	1310.5	1296.7	1296.7	1265.9	1276.4	1269.7	1267.8
10°	927.4	875.4	862.3	861.0	876.7	880.0	862.3	819.6	835.4	839.9	867.6
12.5°	729.6	689.5	628.3	600.7	593.5	599.4	540.9	503.4	521.2	510.7	537.7
15°	523.2	490.3	454.1	423.3	414.7	402.9	339.1	294.4	289.2	291.2	295.8
17.5°	373.3	350.9	350.9	318.1	300.3	264.8	232.6	212.9	211.0	212.9	216.2
20°	275.3	263.6	262.2	253.7	234.0	210.3	188.0	184.0	182.7	186.0	187.3
22.5°	237.2	224.8	214.3	213.6	195.2	175.5	165.0	159.7	160.4	161.6	165.0
25°	212.3	199.1	188.0	181.4	168.3	154.5	144.6	142.0	142.0	143.9	144.6
27.5°	194.5	178.1	168.3	159.0	147.3	135.4	126.8	124.9	123.5	124.9	128.2
30°	182.1	165.6	153.1	139.4	130.1	118.9	111.8	109.1	108.4	109.1	111.8
32.5°	155.8	145.9	136.1	123.5	112.4	105.1	97.3	92.7	92.7	94.0	96.6
35°	117.7	112.4	111.8	108.4	99.2	91.3	82.2	77.5	77.5	80.1	81.5
37.5°	103.9	94.0	92.7	91.3	87.4	76.9	68.4	64.4	63.7	65.7	68.4
40°	94.6	83.4	77.5	76.3	76.9	65.1	55.8	51.9	51.9	52.6	55.2
42.5°	87.4	74.3	63.7	62.4	65.1	54.6	45.3	41.4	41.4	41.4	44.7
45°	81.5	66.4	53.9	47.3	51.3	44.7	36.8	32.9	31.5	32.9	34.1
47.5°	77.5	60.5	47.3	38.1	38.1	35.5	29.6	25.0	23.6	24.3	26.3
50°	74.3	55.2	40.1	30.9	27.6	28.3	22.4	19.1	17.7	17.7	19.7
52.5°	69.0	50.0	34.8	26.3	21.0	19.1	16.4	13.8	13.1	13.8	15.1
55°	62.4	45.3	30.2	21.7	16.4	13.1	11.9	9.8	9.2	9.8	11.9
57.5°	55.2	38.1	24.3	17.1	11.2	8.6	7.9	6.6	5.3	5.9	7.2
59°	50.6	34.1	21.0	13.8	8.6	5.9	5.9	4.6	3.3	4.0	5.9
60°	48.6	31.5	17.7	11.9	7.2	4.6	4.6	3.3	1.9	2.6	4.6
62.5°	41.4	26.3	13.8	7.2	3.3	0.7	1.9	0.7	0.0	0.7	1.9
65°	34.8	21.0	9.2	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.7
67.5°	28.9	15.8	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	23.0	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	15.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	9.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.0	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: P650746  
 CATALOG NUMBER: GALN-SA2C-840-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2
2.5°	2434.4	2528.4	2586.2	2695.3	2807.0	2893.1	3000.9	3097.6	3137.6	3158.6
5°	1877.7	2008.5	2119.6	2285.8	2440.3	2628.3	2818.9	3043.7	3129.8	3152.1
7.5°	1317.8	1451.1	1567.5	1760.0	1980.2	2231.9	2517.2	2802.5	2927.9	2963.4
10°	951.7	1094.3	1236.3	1428.9	1634.6	1907.3	2204.3	2557.3	2701.9	2729.5
12.5°	600.7	753.9	984.6	1222.5	1440.0	1659.5	1970.4	2354.2	2513.9	2564.5
15°	348.3	462.7	636.9	947.1	1223.7	1514.3	1853.4	2277.9	2456.7	2508.7
17.5°	233.3	272.7	392.3	629.7	995.1	1380.2	1823.8	2340.4	2538.2	2604.6
20°	196.5	214.3	256.3	383.8	766.3	1260.6	1831.7	2510.0	2769.6	2852.4
22.5°	172.8	189.3	216.2	276.0	535.0	1112.1	1869.2	2752.5	3087.6	3193.5
25°	152.5	168.9	192.6	228.8	359.5	940.5	1951.3	3107.4	3509.0	3625.3
27.5°	135.4	150.5	170.9	201.8	276.7	749.2	2024.3	3453.1	3893.5	3988.1
30°	119.6	132.1	151.8	175.5	230.0	577.7	2061.1	3755.4	4173.5	4278.6
32.5°	103.9	115.6	134.7	153.8	189.3	440.3	2035.5	3977.6	4445.5	4512.6
35°	88.7	101.2	117.0	134.7	163.7	355.6	1907.3	4227.3	4727.5	4780.1
37.5°	76.3	86.8	103.2	117.0	147.8	284.6	1752.2	4452.1	5043.6	5119.2
40°	64.4	74.9	91.3	103.9	136.1	224.1	1612.2	4701.9	5376.8	5470.1
42.5°	52.6	65.1	79.6	99.9	117.0	170.9	1442.7	4904.3	5627.2	5744.2
45°	42.0	55.8	71.7	99.2	101.8	130.1	1279.0	5062.0	5848.7	5953.9
47.5°	33.6	47.3	69.0	92.7	83.4	103.2	1185.6	5227.0	6032.7	6116.8
50°	26.9	39.4	72.3	81.5	69.6	87.4	1183.0	5411.0	6128.0	6183.9
52.5°	21.7	32.2	61.1	62.4	59.1	76.9	1254.0	5618.0	6225.3	6271.3
55°	18.4	26.9	40.1	46.0	53.2	69.6	1307.3	5936.8	6457.3	6500.7
57.5°	14.5	23.0	30.9	36.8	47.3	63.7	1314.5	6182.6	6751.1	6779.4
59°	12.4	19.7	27.6	32.9	43.4	59.8	1284.9	6197.7	6770.1	6815.5
60°	10.5	17.7	24.3	30.9	40.1	56.5	1252.7	6087.9	6699.2	6749.8
62.5°	7.9	13.8	17.7	25.0	32.9	48.6	1100.2	5704.8	6427.8	6463.3
65°	5.3	9.8	13.1	18.4	25.7	42.0	896.5	5207.9	6008.4	6087.9
67.5°	3.3	7.2	10.5	13.8	21.0	35.5	638.8	4465.9	5421.5	5472.8
70°	1.9	4.6	7.9	11.2	16.4	28.3	379.2	3530.0	4510.6	4521.1
72.5°	1.3	3.3	5.3	7.9	13.1	25.7	184.0	2301.0	3293.4	3418.9
75°	0.7	1.9	3.3	5.9	10.5	21.0	88.1	1537.3	2396.3	2432.4
77.5°	0.0	0.7	1.9	4.0	7.9	16.4	51.3	1009.5	1633.9	1671.3
80°	0.0	0.0	1.3	3.3	5.9	10.5	30.9	595.4	989.8	1008.2
82.5°	0.0	0.0	0.7	2.6	4.0	7.9	15.8	261.6	648.0	654.6
85°	0.0	0.0	0.7	2.6	3.3	5.3	5.9	35.5	287.9	293.1
87.5°	0.0	0.0	0.7	3.3	3.3	3.3	3.3	1.9	24.3	30.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)