

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: P651794

Luminaire Tested: **GALN-SA3A-840-U-SLR-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651794  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-840-U-SLR-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8551.3 lumens  
Efficiency: N/A  
Efficacy: 91.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

Input Watts (W): 93  
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

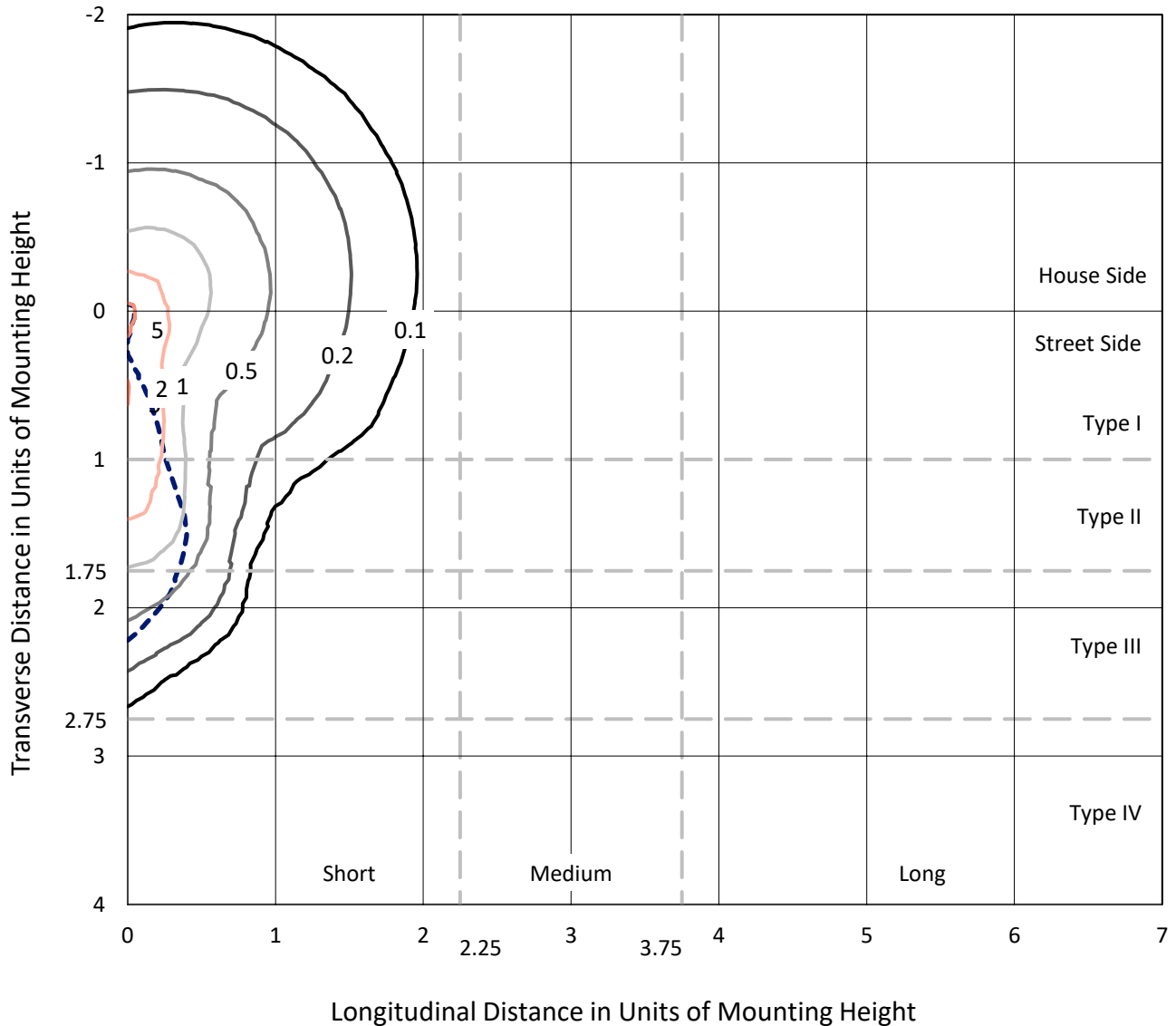




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### Iso-Footcandle Lines of Horizontal Illumination

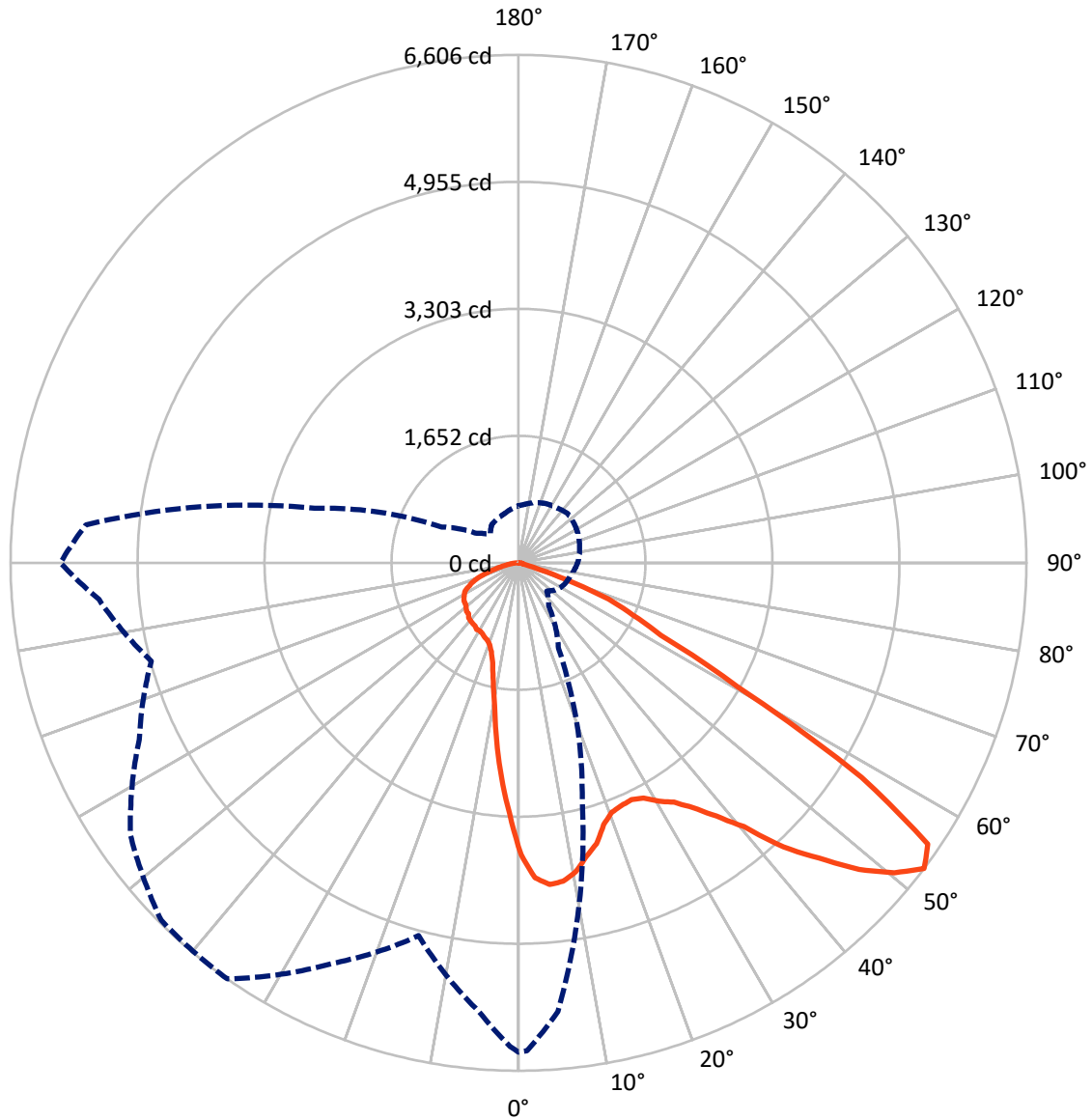
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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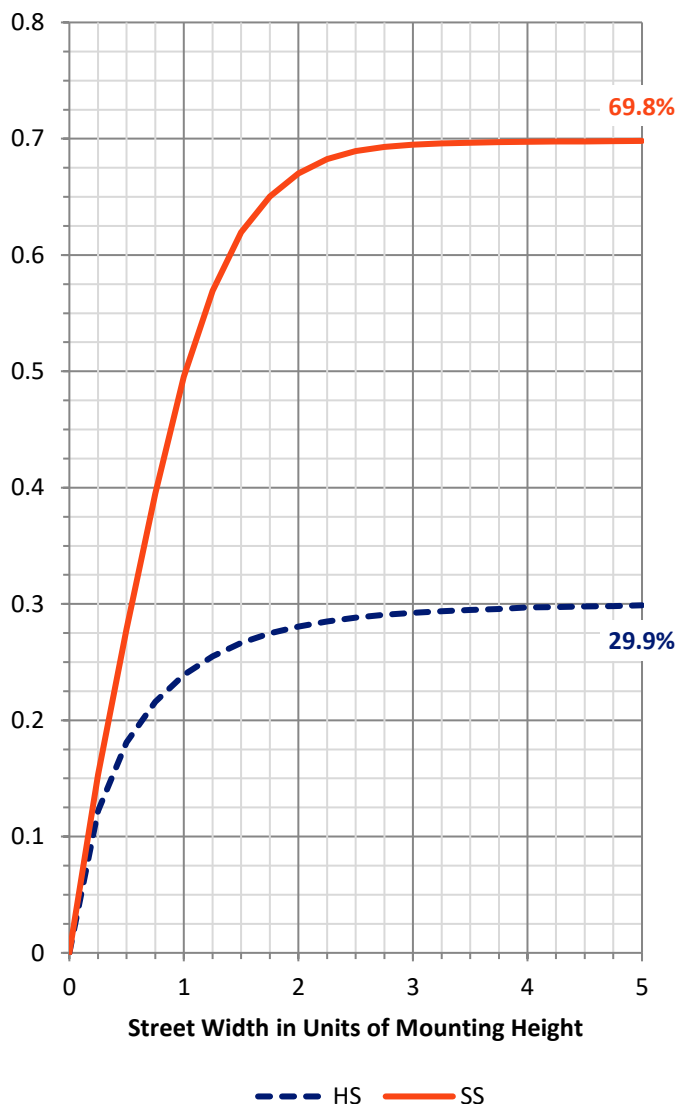
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2577.9	0.0	2577.9
	% Fixture	30.1	0.0	30.1
<b>Street Side</b>	Lumens	5973.4	0.0	5973.4
	% Fixture	69.9	0.0	69.9
<b>Total</b>	Lumens	8551.3	0.0	8551.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	289.5	3.4
10°-20°	627.7	7.3
20°-30°	948.4	11.1
30°-40°	1370.4	16.0
40°-50°	1823.8	21.3
50°-60°	2039.9	23.9
60°-70°	1149.7	13.4
70°-80°	256.3	3.0
80°-90°	45.6	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°	8551.3	100.0
0°-180°	8551.3	100.0

**Coefficient of Utilization**

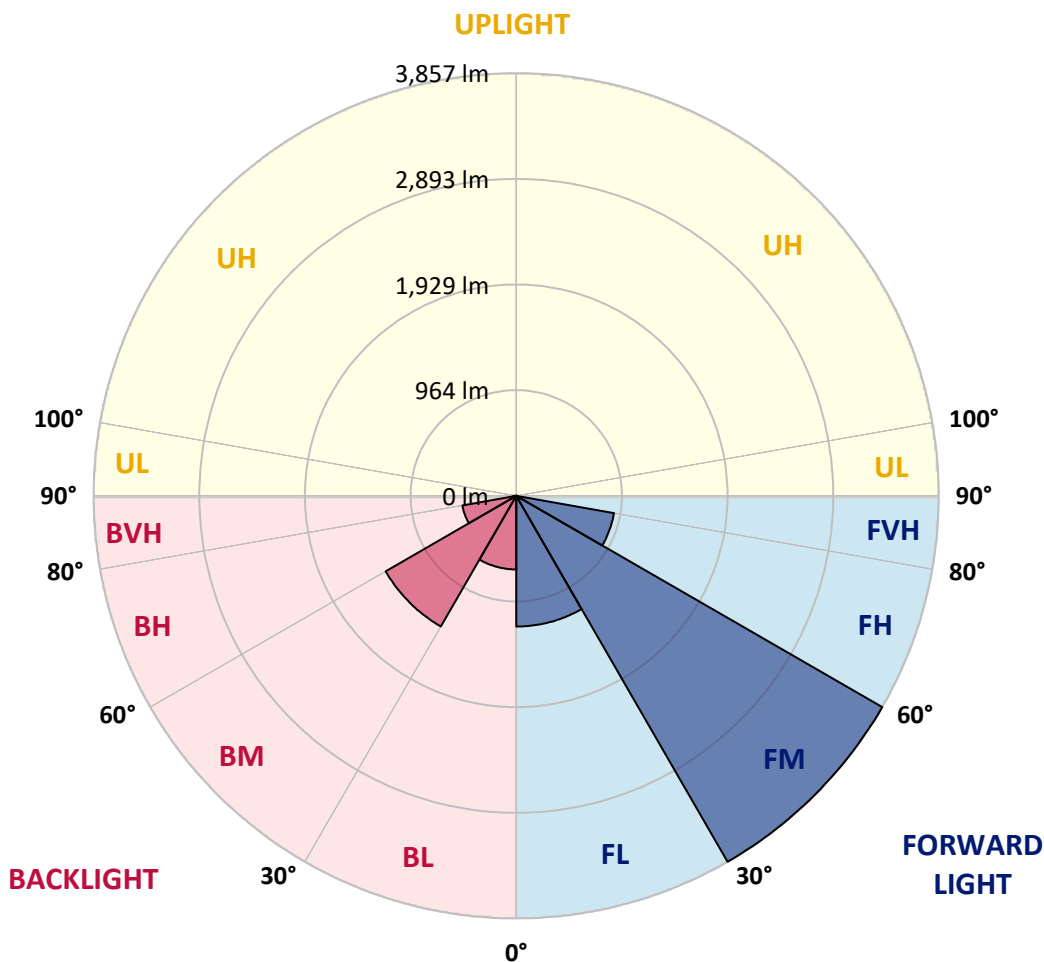


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1193.3	14.0			
FM (30°-60°)	3857.3	45.1			
FH (60°-80°)	906.3	10.6			G1/1800
FVH (80°-90°)	16.5	0.2			G1/100
BL (0°-30°)	672.2	7.9	B2/1000		
BM (30°-60°)	1376.8	16.1	B2/2500		
BH (60°-80°)	499.7	5.8	B1/500		G1/500
BVH (80°-90°)	29.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3795.1	3795.1	3795.1	3795.1	3795.1	3795.1	3795.1	3795.1	3795.1	3795.1	3795.1
2.5°	3858.3	3920.3	3853.4	3734.4	3650.1	3573.2	3492.7	3476.6	3371.2	3352.6	3275.8
5°	3638.9	3625.3	3543.5	3387.4	3215.1	3058.9	2943.7	2832.1	2756.5	2668.5	2662.3
7.5°	3372.5	3293.2	3246.0	3009.4	2796.2	2550.8	2445.4	2275.6	2222.3	2143.0	2102.1
10°	3134.5	3076.2	2966.0	2729.2	2431.8	2269.4	2156.6	2064.9	2002.9	1921.1	1818.2
12.5°	3016.8	2993.2	2869.2	2502.4	2281.8	2108.2	2028.9	1939.7	1834.3	1702.9	1652.1
15°	3037.9	2958.5	2864.3	2459.0	2154.1	1986.8	1860.4	1748.9	1613.7	1488.6	1415.4
17.5°	3195.2	3134.5	2946.1	2486.2	2105.8	1864.1	1634.8	1470.0	1348.5	1235.7	1184.9
20°	3505.1	3417.1	3205.1	2521.0	2001.7	1693.0	1430.3	1227.0	1096.9	1037.4	1020.0
22.5°	3848.4	3796.4	3458.0	2599.1	1918.7	1534.4	1213.4	1010.1	961.8	945.7	977.9
25°	4266.1	4131.0	3850.9	2726.7	1854.2	1399.3	1030.0	917.2	892.4	908.5	945.7
27.5°	4583.4	4547.5	4126.0	2847.0	1766.2	1236.9	927.1	852.7	860.2	876.2	911.0
30°	4960.1	4778.0	4392.5	2930.0	1686.9	1125.4	855.2	835.4	842.8	870.1	887.4
32.5°	5187.0	5118.8	4559.8	3055.2	1595.1	1028.7	799.5	780.9	792.0	832.9	873.8
35°	5475.8	5340.7	4766.8	3087.4	1530.7	990.3	759.8	746.1	772.1	800.6	846.6
37.5°	5812.9	5720.0	5053.1	3065.1	1496.0	950.7	726.3	720.1	738.7	778.3	831.7
40°	6012.5	5984.0	5203.1	3078.7	1441.5	915.9	687.9	695.3	733.8	764.7	816.8
42.5°	6204.6	6018.6	5425.0	3073.8	1406.7	868.8	691.6	682.9	712.7	748.6	798.2
45°	6246.7	6062.0	5477.0	3039.0	1364.6	823.0	663.1	666.8	702.7	747.4	779.6
47.5°	6219.4	6083.1	5573.7	3029.1	1324.9	790.8	620.9	665.6	686.7	722.6	768.4
50°	6200.9	6193.4	5655.5	3076.2	1271.7	739.9	570.1	649.4	670.5	706.4	756.1
52.5°	6364.4	6348.3	5860.0	3200.2	1229.5	685.4	518.1	608.5	659.3	694.1	742.4
55°	6463.6	6392.9	6210.8	3352.6	1158.9	613.5	482.1	557.8	632.1	663.1	712.7
57.5°	5814.2	5765.8	5618.3	3129.5	1039.9	519.3	437.5	505.7	594.9	643.3	694.1
60°	4837.4	4761.8	4383.9	2659.8	767.2	404.0	410.2	464.8	585.0	603.6	663.1
62.5°	4561.1	4374.0	3859.6	2140.5	588.7	347.0	368.1	427.6	532.9	564.0	623.4
65°	3619.1	3480.3	2761.4	1545.6	394.2	301.2	335.9	385.4	459.9	520.6	575.1
67.5°	2265.7	2133.0	1473.7	731.2	275.2	257.8	299.9	352.0	412.8	467.3	528.0
70°	1183.6	1038.6	680.5	264.0	189.6	210.7	250.4	299.9	359.4	404.0	451.1
72.5°	441.3	358.2	221.9	114.0	131.4	161.1	203.3	239.2	281.3	335.9	361.9
75°	68.2	58.3	57.0	69.4	89.2	116.5	145.0	181.0	218.2	252.8	270.2
77.5°	32.2	30.9	34.7	45.8	59.5	83.0	105.4	140.0	169.8	192.1	202.0
80°	21.1	19.8	22.3	30.9	44.7	62.0	84.3	107.8	135.1	153.7	151.2
82.5°	12.4	13.6	13.6	21.1	30.9	44.7	60.7	81.8	100.4	116.5	106.6
85°	7.4	6.2	6.2	12.4	21.1	35.9	50.8	34.7	35.9	35.9	40.9
87.5°	2.4	2.4	2.4	1.3	2.4	2.4	3.7	6.2	7.4	8.7	11.2
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°	3795.1	3795.1	3795.1	3795.1	3795.1	3795.1	3795.1	3795.1	3795.1	3795.1	3795.1
2.5°	3273.3	3311.8	3298.1	3249.8	3287.0	3293.2	3268.4	3353.9	3370.0	3344.0	3351.4
5°	2653.6	2663.5	2685.8	2732.9	2766.4	2806.1	2806.1	2808.5	2775.0	2859.3	2834.6
7.5°	2067.3	2073.6	2099.6	2200.0	2228.5	2304.1	2336.3	2314.0	2247.1	2218.6	2242.1
10°	1784.8	1748.9	1740.1	1752.6	1817.0	1849.2	1876.5	1869.0	1857.9	1835.6	1810.8
12.5°	1596.4	1570.3	1549.3	1519.5	1523.2	1554.3	1575.3	1558.0	1562.9	1567.9	1575.3
15°	1391.9	1373.3	1362.2	1317.5	1312.5	1333.7	1341.1	1351.0	1369.6	1370.8	1362.2
17.5°	1175.0	1158.9	1183.6	1208.4	1191.1	1192.3	1206.0	1214.7	1209.7	1187.4	1176.2
20°	1026.3	1043.6	1068.4	1092.0	1110.5	1121.6	1126.6	1113.0	1096.9	1051.0	1049.8
22.5°	982.9	1005.2	1026.3	1062.2	1079.5	1108.0	1082.0	1051.0	1028.7	1006.4	980.4
25°	950.7	969.3	1011.4	1025.0	1058.5	1082.0	1063.4	1032.4	994.0	961.8	941.9
27.5°	927.1	948.1	975.4	1012.6	1038.6	1052.3	1033.7	1021.3	981.6	943.2	914.7
30°	912.2	934.5	984.1	1015.1	1037.4	1048.6	1016.3	1001.5	973.0	940.7	915.9
32.5°	902.3	922.2	964.3	1003.9	1018.8	1018.8	1023.7	1006.4	966.7	912.2	891.1
35°	870.1	897.3	932.1	977.9	1005.2	1021.3	996.5	976.7	950.7	894.8	856.5
37.5°	851.5	870.1	914.7	958.1	981.6	998.9	989.1	954.4	919.6	873.8	842.8
40°	831.7	861.4	901.0	941.9	968.0	985.3	977.9	937.0	894.8	851.5	830.4
42.5°	818.0	837.9	878.8	924.6	955.6	989.1	966.7	915.9	886.2	826.7	803.2
45°	806.9	839.1	882.5	901.0	933.3	968.0	928.3	897.3	862.6	819.2	799.5
47.5°	793.2	823.0	851.5	901.0	915.9	932.1	924.6	875.1	845.3	798.2	784.6
50°	788.3	799.5	851.5	878.8	899.8	915.9	896.1	858.9	830.4	782.0	752.4
52.5°	768.4	789.5	823.0	858.9	885.0	904.7	872.5	849.0	810.6	759.8	741.2
55°	743.6	756.1	815.5	852.7	866.4	880.0	867.6	829.1	789.5	737.5	718.9
57.5°	711.4	739.9	788.3	840.3	857.7	865.1	845.3	814.3	764.7	718.9	689.1
60°	677.9	707.7	761.0	803.2	820.5	847.7	818.0	799.5	742.4	691.6	659.3
62.5°	644.5	677.9	717.6	770.9	785.8	796.9	789.5	763.5	717.6	660.6	620.9
65°	604.8	629.7	679.2	706.4	716.4	742.4	716.4	706.4	665.6	611.1	577.6
67.5°	545.3	566.4	609.8	635.8	643.3	654.4	653.2	642.0	596.2	559.0	529.2
70°	477.2	495.8	523.0	554.1	557.8	571.4	559.0	556.5	526.7	475.9	459.9
72.5°	383.0	400.3	436.3	449.9	451.1	456.1	449.9	441.3	433.8	380.5	364.4
75°	293.8	303.7	321.0	333.4	333.4	339.6	335.9	327.2	307.4	273.9	257.8
77.5°	204.5	214.5	236.7	244.1	243.0	245.4	234.2	225.6	195.9	178.5	164.8
80°	148.7	154.9	166.1	171.1	172.3	176.0	162.4	154.9	137.6	117.7	111.5
82.5°	107.8	111.5	112.8	119.0	119.0	112.8	109.1	101.6	89.2	76.9	71.9
85°	44.7	45.8	47.1	54.5	55.8	66.9	62.0	58.3	50.8	43.4	39.7
87.5°	11.2	12.4	16.1	13.6	16.1	16.1	17.3	19.8	19.8	16.1	16.1
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°	3795.1	3795.1	3795.1	3795.1	3795.1	3795.1	3795.1	3795.1	3795.1	3795.1	3795.1
2.5°	3379.9	3389.8	3516.2	3532.4	3594.3	3657.5	3785.2	3876.9	3951.3	3999.6	4013.3
5°	2860.6	2923.8	2982.0	3076.2	3161.7	3283.3	3423.3	3596.8	3814.9	3926.5	3971.1
7.5°	2239.7	2314.0	2398.3	2490.0	2615.2	2833.3	3020.5	3221.3	3500.2	3615.4	3790.1
10°	1828.2	1911.2	2022.8	2093.4	2244.6	2452.9	2670.9	2902.7	3169.2	3335.3	3537.3
12.5°	1616.2	1684.4	1787.2	1936.0	2048.8	2183.8	2346.2	2638.7	3020.5	3177.9	3316.7
15°	1381.9	1457.5	1576.5	1741.4	1876.5	2037.6	2219.8	2538.3	2944.8	3187.8	3305.6
17.5°	1188.6	1243.2	1368.3	1510.9	1665.8	1841.8	2103.3	2533.3	3024.2	3335.3	3527.4
20°	1054.8	1062.2	1130.4	1251.8	1462.5	1691.8	2031.4	2508.6	3278.3	3589.4	3832.3
22.5°	970.4	963.0	964.3	1067.1	1214.7	1544.3	1918.7	2592.9	3567.1	3993.4	4157.1
25°	928.3	908.5	896.1	918.4	1052.3	1369.6	1833.1	2704.4	3878.2	4326.9	4527.6
27.5°	906.0	871.3	846.6	850.3	948.1	1281.6	1779.8	2752.8	4186.8	4791.6	4862.2
30°	897.3	854.0	818.0	805.6	870.1	1158.9	1665.8	2835.8	4463.2	5046.9	5107.6
32.5°	866.4	813.1	778.3	767.2	793.2	1051.0	1584.0	2895.3	4707.3	5324.5	5303.5
35°	830.4	785.8	742.4	721.3	739.9	981.6	1518.3	2866.8	4994.9	5540.3	5529.1
37.5°	826.7	768.4	732.5	697.8	696.5	896.1	1429.0	2894.0	5178.3	5926.9	5774.5
40°	794.5	757.3	710.2	681.7	665.6	852.7	1342.3	2829.6	5447.2	6083.1	5933.1
42.5°	795.7	739.9	699.0	665.6	649.4	789.5	1282.8	2812.2	5541.4	6337.2	6007.5
45°	775.9	721.3	686.7	647.0	638.3	741.2	1225.8	2731.7	5707.5	6349.6	5914.5
47.5°	756.1	707.7	670.5	623.4	603.6	723.8	1181.2	2664.8	5620.8	6233.1	5785.7
50°	742.4	686.7	651.9	618.5	562.7	694.1	1122.9	2648.6	5499.3	6075.6	5546.4
52.5°	718.9	669.3	633.4	607.3	518.1	666.8	1100.6	2742.8	5648.1	5957.9	5477.0
55°	696.5	645.7	599.9	549.1	480.9	594.9	1038.6	2830.8	5865.0	6229.4	5791.8
57.5°	673.0	624.7	575.1	514.4	445.0	520.6	974.2	2847.0	5458.4	5757.1	5498.1
60°	642.0	580.0	542.9	463.6	406.5	431.3	772.1	2509.8	4233.8	4807.7	4816.4
62.5°	607.3	540.4	508.1	415.2	366.8	371.8	629.7	2109.5	3434.5	3979.8	4216.5
65°	561.5	497.0	458.6	384.3	338.3	322.3	461.0	1545.6	2609.0	3228.7	3497.6
67.5°	502.0	441.3	392.9	334.6	302.4	276.4	314.8	870.1	1540.6	2167.8	2249.6
70°	438.7	386.7	335.9	287.5	251.6	233.0	230.5	385.4	736.2	1166.3	1327.4
72.5°	345.8	308.6	267.7	231.8	208.2	181.0	164.8	159.9	249.1	474.7	655.6
75°	247.8	216.9	193.3	169.8	152.5	137.6	125.1	114.0	104.1	119.0	163.6
77.5°	156.2	145.0	126.4	120.3	110.3	106.6	101.6	95.5	88.0	83.0	83.0
80°	105.4	97.9	91.8	90.5	86.8	85.5	86.8	80.6	73.2	66.9	69.4
82.5°	70.6	69.4	68.2	66.9	68.2	69.4	71.9	70.6	64.4	60.7	62.0
85°	42.1	44.7	47.1	49.5	54.5	48.4	39.7	33.5	29.8	27.2	26.0
87.5°	16.1	22.3	19.8	18.6	19.8	18.6	17.3	16.1	13.6	12.4	12.4
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: P651794

CATALOG NUMBER: GALN-SA3A-840-U-SLR-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3795.1	3795.1	3795.1	3795.1	3795.1	3795.1	3795.1	3795.1	3795.1	3795.1
2.5°	4103.7	4128.6	4149.6	4144.6	4101.2	4043.0	4019.5	3899.2	3874.4	3858.3
5°	4159.5	4303.3	4334.3	4315.7	4202.9	4060.3	3921.5	3745.6	3642.6	3638.9
7.5°	4056.6	4233.8	4289.6	4331.8	4181.8	3933.9	3695.9	3432.0	3367.5	3372.5
10°	3795.1	4077.7	4215.3	4258.7	4086.4	3872.0	3542.3	3274.5	3137.0	3134.5
12.5°	3650.1	3872.0	3910.4	3971.1	3920.3	3703.4	3453.1	3153.1	3019.3	3016.8
15°	3521.2	3667.4	3678.6	3764.1	3791.4	3645.1	3476.6	3156.8	3049.0	3037.9
17.5°	3634.0	3532.4	3490.2	3501.3	3581.9	3635.2	3612.9	3367.5	3257.2	3195.2
20°	3709.6	3482.7	3355.1	3367.5	3463.0	3657.5	3816.2	3672.4	3497.6	3505.1
22.5°	3911.7	3490.2	3290.7	3277.0	3428.3	3774.1	4045.5	4057.9	3889.3	3848.4
25°	4214.0	3575.8	3270.8	3267.1	3412.1	3899.2	4313.2	4514.0	4341.7	4266.1
27.5°	4457.0	3709.6	3332.8	3345.2	3463.0	4000.9	4541.2	4807.7	4676.4	4583.4
30°	4670.2	3848.4	3419.6	3362.6	3599.3	4054.1	4639.1	5142.4	5037.0	4960.1
32.5°	4758.1	4045.5	3557.2	3463.0	3712.1	4118.6	4842.4	5467.1	5376.6	5187.0
35°	4906.9	4155.8	3631.5	3624.0	3909.1	4273.5	4937.8	5681.5	5644.4	5475.8
37.5°	5025.9	4267.3	3895.5	3813.7	4179.3	4533.8	5091.6	5977.7	5892.2	5812.9
40°	5117.6	4466.9	4142.2	4250.0	4511.5	4770.6	5232.9	5996.3	6243.0	6012.5
42.5°	5033.3	4645.3	4547.5	4805.2	5053.1	5040.7	5248.9	6140.1	6324.7	6204.6
45°	5012.2	4947.8	5188.2	5422.5	5479.5	5265.1	5133.7	5981.4	6300.0	6246.7
47.5°	4961.4	5245.2	5664.1	6045.9	5959.2	5415.0	4996.1	5952.9	6314.9	6219.4
50°	4944.1	5309.7	6016.2	6388.0	6335.9	5545.2	4931.6	5769.5	6209.5	6200.9
52.5°	4942.8	5442.3	6162.4	6573.9	6606.1	5750.9	5019.7	5862.4	6291.4	6364.4
55°	4998.6	5400.1	6143.8	6471.0	6458.6	5659.2	5029.6	5924.4	6391.7	6463.6
57.5°	4714.7	4837.4	5070.5	5329.5	5262.6	4687.5	4491.7	5477.0	5866.2	5814.2
60°	4071.5	3687.3	3424.6	3412.1	3282.0	3102.3	3676.1	4888.3	4888.3	4837.4
62.5°	3565.8	2420.6	2079.8	1983.1	2076.0	2283.0	3546.0	4754.4	4619.4	4561.1
65°	3118.4	1848.0	1503.5	1476.1	1637.3	1949.6	3206.4	4050.4	3812.5	3619.1
67.5°	2006.6	1353.4	1117.9	1069.6	1264.2	1431.6	2134.3	2491.2	2341.3	2265.7
70°	1294.0	881.2	622.2	583.7	659.3	882.5	1363.3	1452.6	1234.5	1183.6
72.5°	612.2	380.5	218.2	179.7	202.0	337.2	539.2	580.0	482.1	441.3
75°	194.6	140.0	89.2	76.9	73.2	86.8	124.0	95.5	69.4	68.2
77.5°	86.8	83.0	70.6	59.5	52.1	43.4	35.9	29.8	30.9	32.2
80°	71.9	65.7	58.3	52.1	43.4	33.5	26.0	19.8	19.8	21.1
82.5°	63.2	57.0	50.8	43.4	37.2	27.2	19.8	13.6	12.4	12.4
85°	27.2	32.2	34.7	37.2	29.8	22.3	13.6	8.7	7.4	7.4
87.5°	11.2	9.9	8.7	7.4	6.2	6.2	5.0	3.7	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)