

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: P652455

Luminaire Tested: **GALN-SA6B-840-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652455  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-840-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20379.1 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

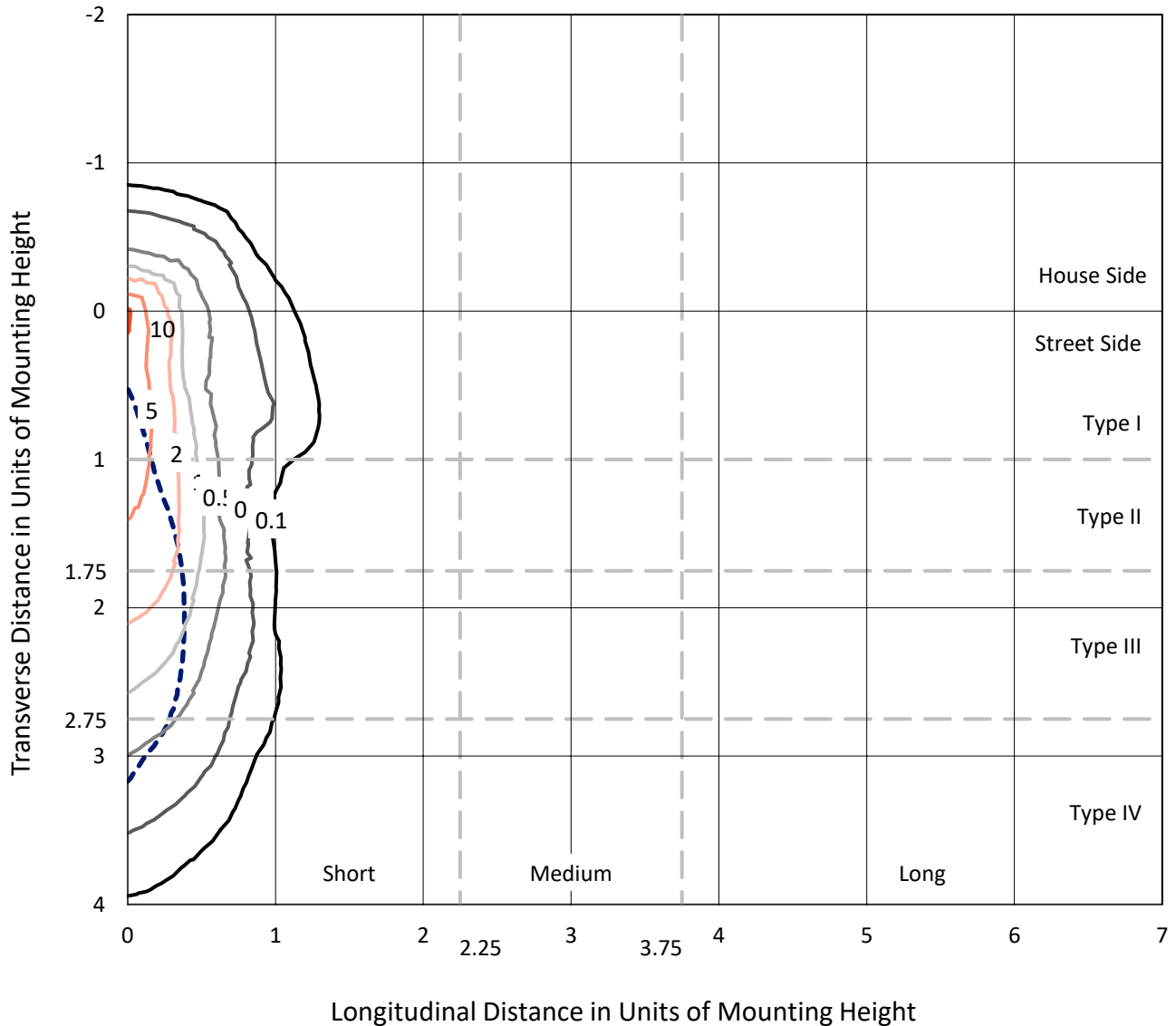
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

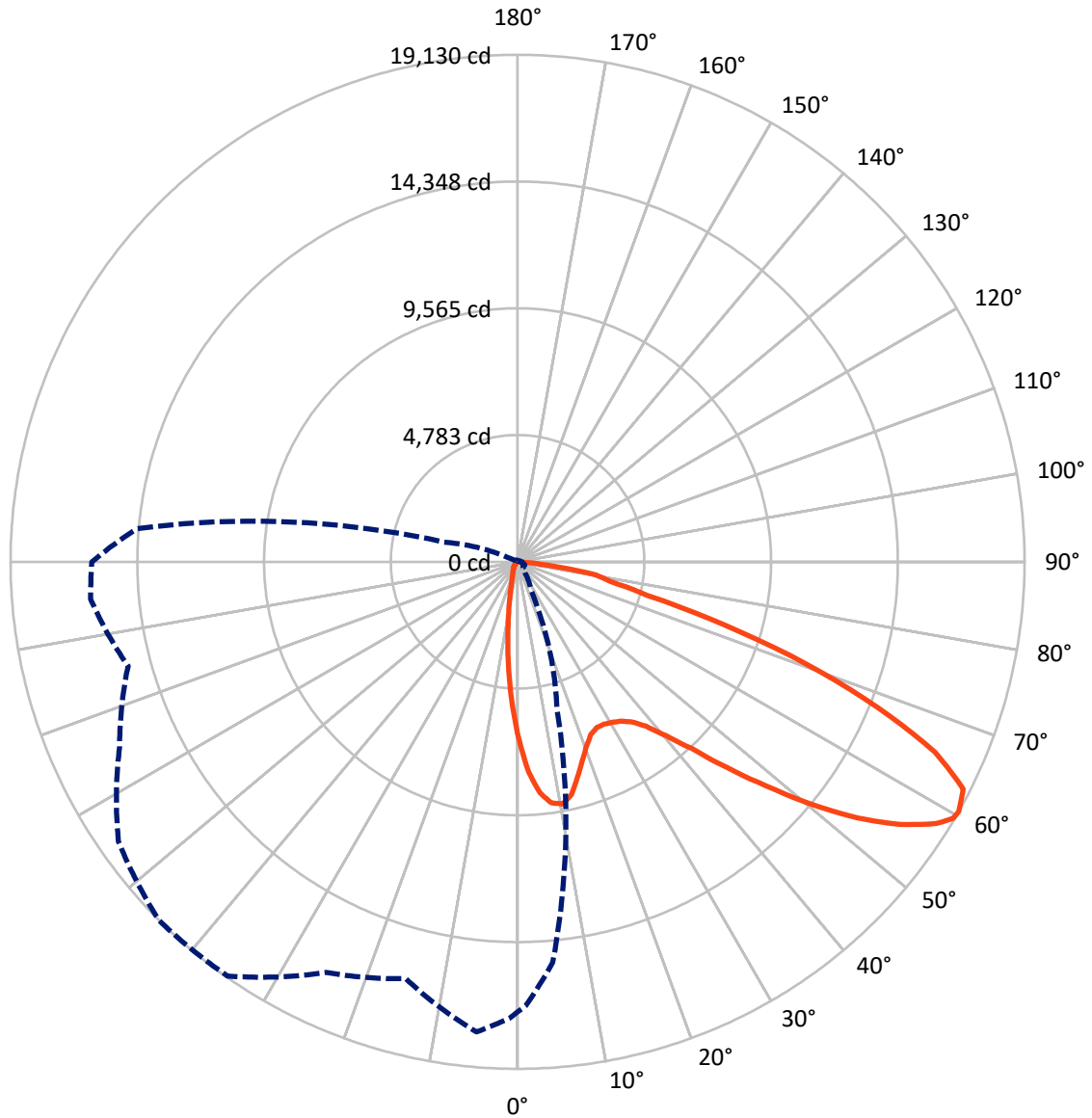
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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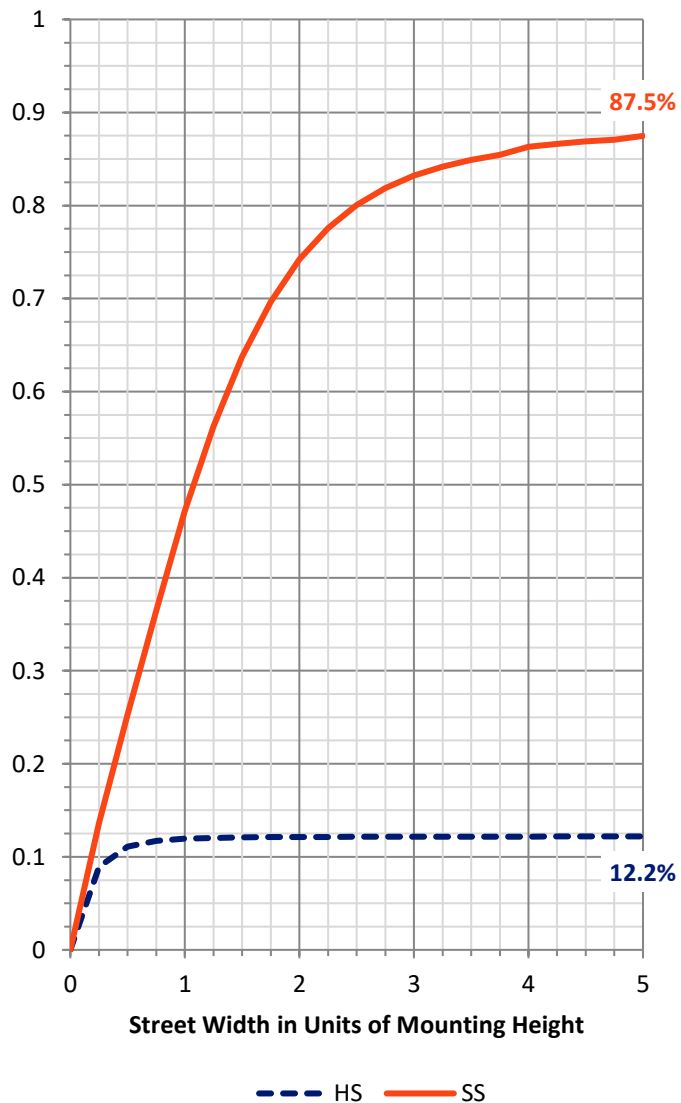
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2513.6	0.0	2513.6
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	17865.6	0.0	17865.6
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	20379.1	0.0	20379.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	501.0	2.5
10°-20°	994.9	4.9
20°-30°	1458.8	7.2
30°-40°	2169.5	10.6
40°-50°	3157.4	15.5
50°-60°	4553.2	22.3
60°-70°	5008.0	24.6
70°-80°	2243.2	11.0
80°-90°	293.1	1.4
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°	20379.1	100.0
0°-180°	20379.1	100.0

**Coefficient of Utilization**



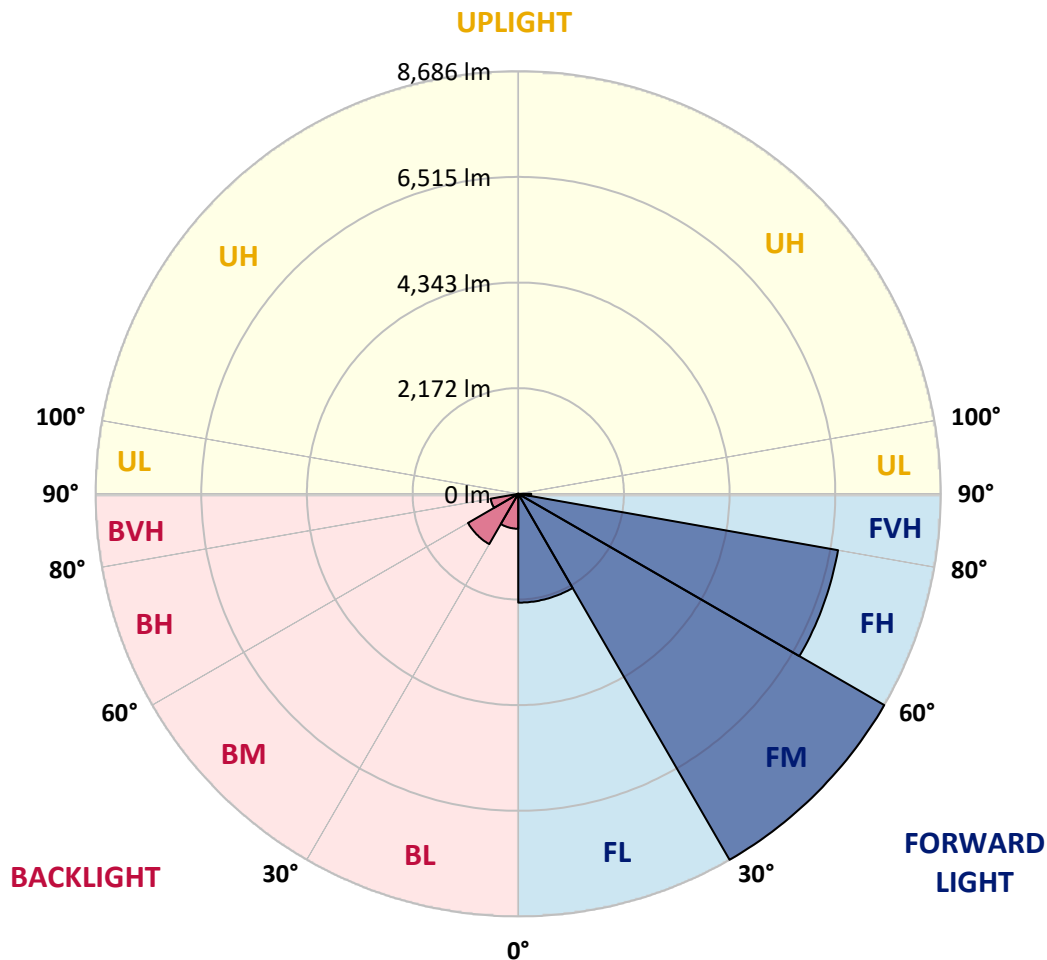
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2236.5	11.0			
FM (30°-60°)	8686.2	42.6			
FH (60°-80°)	6674.8	32.8			G3/7500
FVH (80°-90°)	268.0	1.3			G3/500
BL (0°-30°)	718.2	3.5	B2/1000		
BM (30°-60°)	1193.9	5.9	B2/2500		
BH (60°-80°)	576.4	2.8	B2/1000		G2/1000
BVH (80°-90°)	25.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6735.6	6735.6	6735.6	6735.6	6735.6	6735.6	6735.6	6735.6	6735.6	6735.6	6735.6
2.5°	7404.8	7372.3	7297.9	7071.7	6875.0	6617.8	6357.6	6153.1	6027.6	5796.8	5691.5
5°	7174.0	7189.5	6974.2	6509.4	5992.0	5638.8	5253.1	4946.3	4608.7	4394.9	4170.3
7.5°	6571.4	6540.4	6306.5	5658.9	5030.0	4518.8	4030.8	3634.2	3384.9	3185.0	3017.7
10°	6055.5	6032.3	5733.3	4899.9	4224.4	3841.9	3511.8	3164.9	2896.8	2604.1	2370.2
12.5°	5731.8	5679.1	5335.2	4464.5	3914.6	3558.4	3198.9	2838.0	2467.7	2171.9	1888.4
15°	5623.3	5547.4	5164.7	4314.3	3716.4	3264.0	2813.2	2398.0	1972.1	1645.2	1431.4
17.5°	5820.1	5694.6	5287.2	4288.0	3479.3	2879.8	2325.2	1784.6	1341.6	1092.1	960.4
20°	6270.8	6126.8	5597.0	4261.6	3216.0	2449.2	1767.5	1261.0	928.0	791.6	718.8
22.5°	6940.1	6741.8	6055.5	4303.5	2972.8	2029.3	1276.5	890.8	737.4	652.2	601.1
25°	7744.1	7578.3	6636.4	4452.2	2780.7	1699.4	986.8	728.1	621.2	568.5	529.8
27.5°	8625.5	8360.6	7387.8	4630.3	2605.6	1443.7	866.0	650.6	553.0	505.0	484.8
30°	9252.9	9046.9	8016.7	4754.3	2387.2	1251.7	791.6	641.3	554.6	497.3	460.1
32.5°	9872.6	9609.2	8543.4	4811.6	2227.6	1118.4	684.7	559.3	486.4	457.0	419.8
35°	10535.6	10259.9	9068.6	4780.6	2108.4	1030.1	621.2	498.8	416.7	367.2	329.9
37.5°	11206.3	10915.1	9590.6	4669.1	2034.0	994.6	571.6	474.1	393.5	342.4	302.1
40°	12002.6	11613.8	10080.1	4577.6	1956.5	976.0	539.1	458.5	376.4	322.2	281.9
42.5°	12653.3	12283.0	10543.4	4529.6	1903.9	932.6	539.1	446.2	365.6	305.2	263.3
45°	13269.8	12885.6	11043.7	4568.4	1882.2	878.3	545.3	444.6	357.8	292.8	251.0
47.5°	13785.7	13452.6	11558.0	4714.0	1854.3	819.5	512.8	466.3	353.2	281.9	238.6
50°	14394.5	14072.2	12238.1	5008.3	1804.7	760.6	472.5	501.9	351.6	272.7	227.7
52.5°	15252.6	14904.1	13176.9	5343.0	1725.7	670.8	435.3	497.3	345.5	257.2	216.9
55°	16301.4	16019.5	14264.3	5744.1	1617.2	570.1	376.4	441.5	326.9	230.9	198.3
57.5°	16973.7	16733.6	15079.1	5917.6	1451.6	466.3	331.5	370.2	299.0	206.0	176.6
59°	17052.8	16835.9	15249.6	5860.3	1343.1	426.1	309.8	317.6	291.2	192.1	164.2
60°	16986.1	16761.6	15181.4	5748.8	1242.4	398.1	291.2	281.9	292.8	184.3	154.9
62.5°	16558.6	16174.4	14519.9	5183.3	1085.9	365.6	258.7	230.9	258.7	165.8	137.8
65°	15732.9	15156.6	13210.9	4387.1	1024.0	347.0	220.0	193.7	196.7	145.6	119.3
67.5°	14290.7	13564.2	11468.1	3564.5	997.6	348.6	185.9	173.5	151.8	124.0	105.4
70°	12010.3	11285.4	9201.8	2932.5	985.2	348.6	158.0	148.7	127.0	103.8	91.4
72.5°	8510.9	7730.1	6207.3	2303.6	887.7	347.0	134.8	134.8	103.8	86.8	74.3
75°	4808.5	4814.6	3902.2	1629.7	737.4	286.6	108.4	106.9	75.9	66.6	55.8
77.5°	2802.4	2752.8	2630.4	700.2	342.4	130.1	75.9	65.1	52.6	48.0	40.3
80°	1440.7	1185.1	1154.1	254.1	122.4	82.1	52.6	37.2	34.1	30.9	27.9
82.5°	426.1	427.6	381.1	102.3	68.1	54.2	26.3	20.1	18.6	17.1	17.1
85°	29.4	18.6	21.7	30.9	41.8	21.7	1.5	4.6	4.6	6.2	7.7
87.5°	3.1	1.5	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6735.6	6735.6	6735.6	6735.6	6735.6	6735.6	6735.6	6735.6	6735.6	6735.6	6735.6
2.5°	5575.3	5643.4	5516.5	5519.6	5414.2	5448.3	5324.4	5364.7	5291.8	5347.6	5511.7
5°	4195.0	4210.6	4108.3	4075.7	4091.2	4154.7	4179.5	4066.5	4114.5	4020.0	4013.8
7.5°	2955.7	2974.3	2915.4	2907.7	3019.3	2992.9	3040.9	2924.7	2814.7	2862.8	2774.5
10°	2295.8	2218.3	2097.5	2063.4	2041.8	2055.7	2055.7	1950.4	1934.9	1893.0	1956.5
12.5°	1812.4	1718.0	1603.4	1448.5	1409.7	1406.6	1349.3	1256.4	1226.9	1191.3	1243.9
15°	1316.8	1278.1	1181.9	1095.2	1006.9	989.9	896.9	821.1	720.3	706.4	701.7
17.5°	926.4	869.1	867.5	818.0	766.8	732.8	646.0	559.3	520.5	515.9	515.9
20°	694.0	673.9	641.3	635.1	619.6	581.0	503.5	457.0	438.4	439.9	446.2
22.5°	584.0	570.1	540.7	526.7	520.5	486.4	429.1	398.1	388.8	388.8	390.4
25°	522.1	509.6	477.1	455.4	447.7	422.9	377.9	354.7	347.0	347.0	347.0
27.5°	475.6	460.1	426.1	407.4	393.5	365.6	337.7	314.4	306.7	306.7	308.3
30°	443.0	426.1	395.0	370.2	348.6	323.8	300.5	280.4	271.1	269.5	271.1
32.5°	399.6	384.2	353.2	337.7	312.9	283.5	264.9	246.3	237.0	238.6	237.0
35°	311.3	306.7	285.0	289.7	275.8	251.0	233.9	213.8	202.9	201.4	204.4
37.5°	283.5	264.9	240.1	241.7	237.0	227.7	199.8	178.1	170.4	170.4	172.0
40°	261.8	243.2	215.3	201.4	202.9	202.9	173.5	150.3	142.5	141.0	144.1
42.5°	243.2	224.6	193.7	170.4	164.2	172.0	147.2	124.0	116.2	113.1	116.2
45°	230.9	210.7	175.0	148.7	130.1	139.4	120.9	102.3	92.9	92.9	91.4
47.5°	218.4	199.8	161.1	128.6	108.4	103.8	99.2	82.1	72.8	71.2	72.8
50°	207.6	189.0	145.6	111.5	91.4	80.6	80.6	65.1	58.9	55.8	57.4
52.5°	196.7	176.6	131.7	99.2	79.0	65.1	57.4	52.6	48.0	46.5	48.0
55°	181.2	161.1	117.7	85.2	68.1	54.2	44.9	43.4	40.3	37.2	40.3
57.5°	162.6	144.1	103.8	72.8	54.2	41.8	37.2	35.7	32.5	30.9	30.9
59°	151.8	134.8	96.0	63.5	48.0	37.2	34.1	32.5	29.4	26.3	27.9
60°	145.6	131.7	91.4	58.9	43.4	34.1	30.9	29.4	26.3	24.8	26.3
62.5°	128.6	117.7	80.6	48.0	34.1	24.8	21.7	23.2	21.7	20.1	21.7
65°	113.1	103.8	68.1	37.2	26.3	17.1	15.5	20.1	18.6	17.1	18.6
67.5°	100.7	89.8	57.4	27.9	18.6	9.3	10.8	17.1	17.1	15.5	17.1
70°	86.8	77.5	46.5	20.1	9.3	4.6	7.7	12.4	15.5	14.0	15.5
72.5°	71.2	60.4	35.7	14.0	4.6	0.0	4.6	10.8	15.5	14.0	15.5
75°	55.8	44.9	26.3	7.7	0.0	0.0	1.5	9.3	15.5	14.0	15.5
77.5°	40.3	32.5	15.5	1.5	0.0	0.0	1.5	9.3	15.5	14.0	15.5
80°	26.3	23.2	6.2	0.0	0.0	0.0	1.5	9.3	15.5	15.5	17.1
82.5°	17.1	12.4	0.0	0.0	0.0	0.0	3.1	12.4	17.1	18.6	18.6
85°	7.7	0.0	0.0	0.0	0.0	0.0	6.2	15.5	20.1	20.1	20.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.1	10.8	18.6	23.2	23.2
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6735.6	6735.6	6735.6	6735.6	6735.6	6735.6	6735.6	6735.6	6735.6	6735.6	6735.6
2.5°	5539.7	5637.2	5775.1	5987.3	6159.3	6430.4	6638.0	6921.5	7208.0	7294.8	7429.6
5°	4077.3	4202.7	4515.7	4800.8	4980.4	5553.6	5916.1	6487.7	7000.5	7246.8	7514.8
7.5°	2831.8	2980.5	3219.1	3617.2	3995.2	4461.5	5047.0	5700.8	6452.1	6803.8	7181.7
10°	1987.5	2173.4	2509.5	2836.4	3312.0	3755.1	4332.9	5054.8	5883.6	6298.8	6772.7
12.5°	1254.8	1420.5	1865.2	2232.3	2825.6	3339.9	3872.8	4526.5	5487.0	5913.0	6410.3
15°	717.2	856.6	1064.3	1535.2	2193.6	2873.6	3538.2	4297.3	5284.1	5809.2	6346.8
17.5°	534.5	571.6	664.6	931.0	1530.5	2325.2	3229.9	4227.5	5421.9	6038.5	6652.0
20°	449.3	474.1	517.4	622.8	976.0	1790.8	2929.4	4240.0	5868.1	6642.6	7225.1
22.5°	402.8	418.2	453.9	522.1	666.2	1304.4	2577.7	4312.7	6408.8	7384.7	8056.9
25°	353.2	373.3	404.4	463.2	554.6	904.7	2230.8	4475.4	7166.2	8326.6	8958.6
27.5°	314.4	333.0	364.1	418.2	486.4	690.9	1826.4	4614.8	7965.6	9274.6	9792.0
30°	275.8	294.3	325.3	368.7	430.7	559.3	1391.1	4696.9	8741.7	9985.6	10383.7
32.5°	243.2	258.7	288.1	326.9	377.9	474.1	1096.7	4611.7	9335.0	10631.7	10898.1
35°	210.7	229.3	254.1	289.7	334.6	404.4	912.4	4317.4	9844.7	11296.2	11392.3
37.5°	176.6	198.3	224.6	257.2	292.8	371.8	732.8	3992.1	10390.0	12124.9	11967.0
40°	148.7	168.9	193.7	229.3	261.8	340.8	563.9	3645.1	10978.7	12902.6	12594.4
42.5°	120.9	142.5	172.0	204.4	258.7	297.5	436.8	3285.7	11506.9	13579.6	13161.3
45°	96.0	114.6	145.6	187.5	257.2	255.6	337.7	2931.0	11905.0	14062.9	13584.3
47.5°	75.9	91.4	122.4	182.8	237.0	216.9	271.1	2711.0	12323.3	14498.3	13908.0
50°	60.4	75.9	105.4	190.6	207.6	185.9	227.7	2746.6	12727.6	14719.8	14041.3
52.5°	51.1	66.6	91.4	150.3	159.5	162.6	199.8	2910.8	13249.6	14956.8	14306.2
55°	44.9	58.9	77.5	105.4	124.0	145.6	182.8	3030.1	13948.3	15464.9	14890.2
57.5°	35.7	51.1	69.7	89.8	102.3	127.0	168.9	3039.4	14580.3	16117.1	15666.3
59°	32.5	46.5	65.1	85.2	91.4	114.6	159.5	2960.4	14603.5	16214.6	16022.6
60°	29.4	44.9	62.0	79.0	86.8	108.4	151.8	2869.0	14392.9	16059.7	16169.7
62.5°	24.8	38.8	54.2	63.5	74.3	89.8	131.7	2537.5	13372.1	15358.0	15897.1
65°	21.7	34.1	46.5	52.6	62.0	77.5	116.2	2030.9	12244.3	14406.8	15116.4
67.5°	20.1	30.9	40.3	44.9	54.2	71.2	103.8	1434.5	10783.5	13200.1	13943.7
70°	18.6	29.4	35.7	41.8	48.0	60.4	88.3	836.5	8306.4	11084.0	11869.4
72.5°	18.6	27.9	30.9	35.7	41.8	54.2	82.1	452.4	5679.1	8455.1	9469.8
75°	18.6	26.3	27.9	30.9	37.2	49.5	72.8	237.0	3671.4	5874.3	7249.9
77.5°	18.6	24.8	27.9	29.4	35.7	43.4	63.5	148.7	2446.0	4114.5	4899.9
80°	20.1	24.8	26.3	29.4	34.1	40.3	52.6	99.2	1437.6	2475.5	2982.1
82.5°	21.7	24.8	27.9	30.9	35.7	38.8	46.5	62.0	663.0	1637.4	1852.7
85°	23.2	26.3	29.4	32.5	37.2	38.8	43.4	44.9	108.4	738.9	999.2
87.5°	24.8	27.9	30.9	34.1	40.3	40.3	40.3	40.3	37.2	79.0	201.4
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: P652455

CATALOG NUMBER: GALN-SA6B-840-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6735.6	6735.6	6735.6	6735.6	6735.6	6735.6	6735.6	6735.6	6735.6	6735.6
2.5°	7600.0	7775.0	7897.4	7928.4	7840.1	7799.9	7688.3	7514.8	7409.5	7404.8
5°	8008.9	8419.5	8704.5	8752.5	8582.2	8294.0	7951.7	7510.1	7251.4	7174.0
7.5°	7939.3	8658.0	9116.6	9183.2	8896.6	8346.7	7683.6	6972.6	6690.7	6571.4
10°	7652.7	8529.5	9184.7	9290.1	8907.5	8132.9	7290.2	6497.1	6147.0	6055.5
12.5°	7407.9	8294.0	8876.5	9022.1	8732.4	7959.4	7054.7	6191.9	5816.9	5731.8
15°	7301.1	8015.2	8371.5	8445.8	8397.8	7851.0	7029.9	6145.4	5716.3	5623.3
17.5°	7407.9	7778.2	7823.1	7899.0	8005.9	7840.1	7268.5	6397.9	5934.7	5820.1
20°	7688.3	7572.1	7386.3	7418.7	7663.5	7885.0	7693.0	6957.1	6393.2	6270.8
22.5°	8165.4	7521.0	7099.6	7071.7	7381.5	8035.3	8315.7	7714.7	7060.9	6940.1
25°	8751.0	7649.6	6994.3	6933.9	7271.6	8255.3	8992.6	8642.5	7928.4	7744.1
27.5°	9389.3	7916.0	6994.3	6935.4	7262.3	8450.5	9572.0	9463.6	8826.9	8625.5
30°	9739.4	8136.0	7095.0	7028.4	7376.9	8563.6	9881.8	10193.3	9502.3	9252.9
32.5°	10052.2	8441.2	7291.7	7166.2	7617.0	8730.8	10159.1	10812.9	10039.9	9872.6
35°	10340.4	8768.0	7562.9	7417.2	7933.1	8960.1	10465.9	11463.5	10788.1	10535.6
37.5°	10658.0	9147.6	7985.7	7861.8	8461.3	9406.2	10829.9	12318.6	11523.9	11206.3
40°	11003.4	9587.5	8681.3	8628.6	9301.0	9911.3	11290.0	13231.0	12363.5	12002.6
42.5°	11355.1	10094.1	9533.3	9620.0	10252.1	10619.2	11762.5	13932.8	13051.4	12653.3
45°	11674.2	10741.6	10640.9	11070.0	11361.2	11310.2	12112.6	14427.0	13650.9	13269.8
47.5°	12076.9	11685.0	11980.9	12642.4	12650.2	12061.5	12377.5	14831.3	14166.7	13785.7
50°	12527.8	12798.8	13711.3	14385.1	14203.9	12800.4	12687.3	15310.0	14699.7	14394.5
52.5°	13049.8	14045.9	15310.0	16058.2	15635.3	13606.0	13203.2	15827.4	15545.5	15252.6
55°	13657.1	14896.4	16904.0	17500.5	17074.4	14606.7	13987.0	16529.2	16501.3	16301.4
57.5°	14343.3	15794.8	17827.3	18634.4	18254.8	15780.9	15082.2	17190.6	17085.3	16973.7
59°	14885.5	16256.5	18234.7	19071.3	18842.0	16603.5	15818.1	17602.7	17220.1	17052.8
60°	15213.9	16569.4	18385.0	19130.1	19077.4	17093.0	16284.4	17804.1	17218.5	16986.1
62.5°	16188.3	17116.3	18327.7	18868.3	19074.4	18031.8	17652.3	18025.6	16899.4	16558.6
65°	16535.3	16935.0	17378.1	17311.5	17488.1	17983.8	18526.0	17782.4	16217.8	15732.9
67.5°	15859.9	14947.5	15103.9	14659.4	14572.6	15988.5	18171.2	16592.7	14884.0	14290.7
70°	13369.0	11451.1	11372.1	11576.6	11015.8	12944.5	16316.9	14301.5	12682.7	12010.3
72.5°	10523.2	8092.6	7426.5	8179.4	8162.3	9875.7	13554.8	10148.3	8568.2	8510.9
75°	8275.4	5634.2	4944.8	5067.2	5302.7	7149.2	10795.8	6444.3	5276.3	4808.5
77.5°	5555.1	3992.1	3724.1	3573.8	3827.9	4590.1	6830.1	3494.9	2958.8	2802.4
80°	3202.0	2899.9	3293.4	2989.8	3126.2	2892.2	3397.2	1603.4	1330.7	1440.7
82.5°	2083.6	1651.4	1759.8	1307.4	1787.7	1803.2	1090.6	474.1	401.2	426.1
85°	1302.8	774.6	435.3	309.8	616.5	1133.9	340.8	29.4	34.1	29.4
87.5°	337.7	128.6	54.2	80.6	99.2	88.3	79.0	4.6	1.5	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)