

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: P650970

Luminaire Tested: **GALN-SA6C-840-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650970  
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-SA6C-840-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 1050mA 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: 25179.5 lumens  
Efficiency: N/A  
Efficacy: 78.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

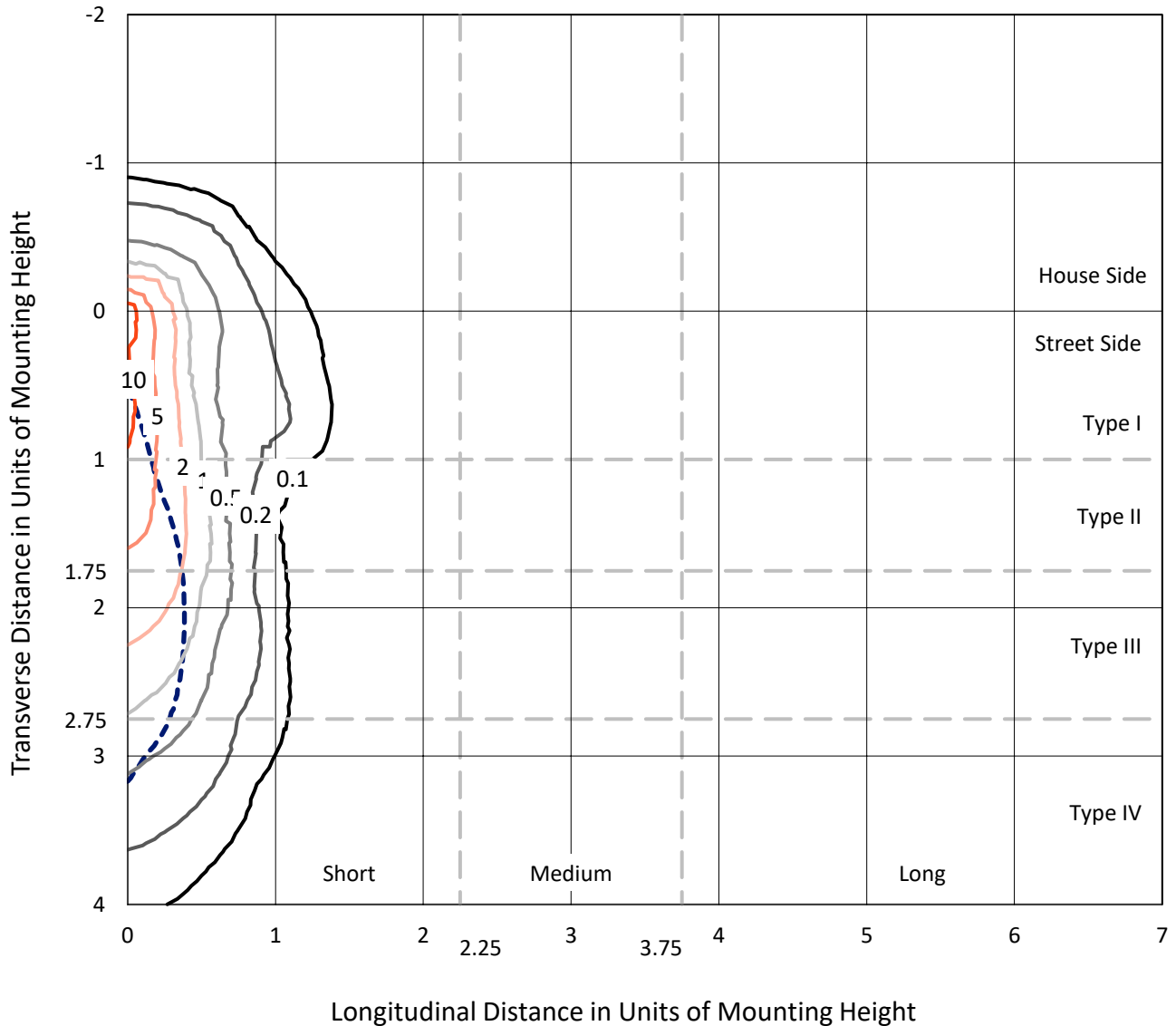
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

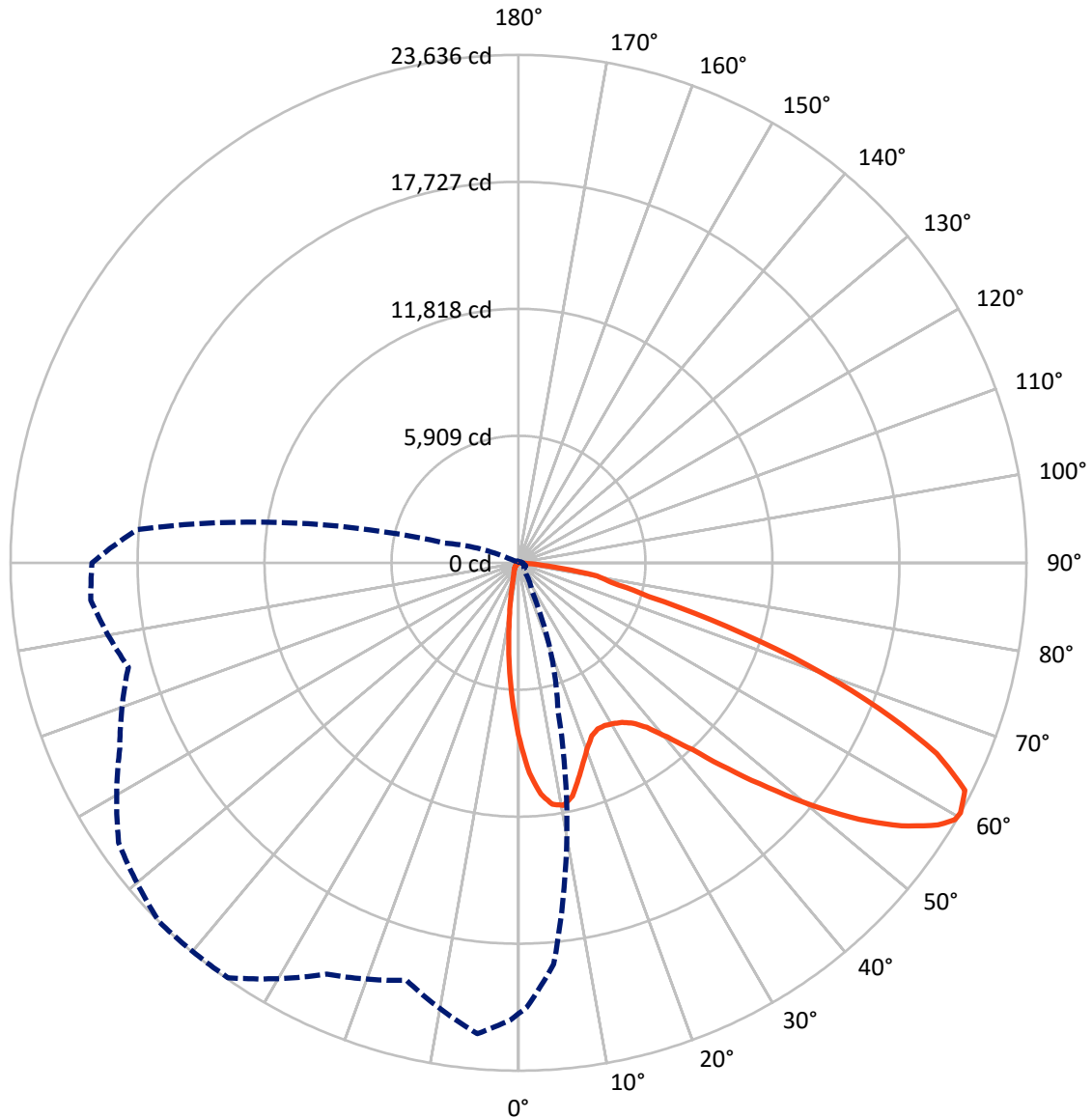
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 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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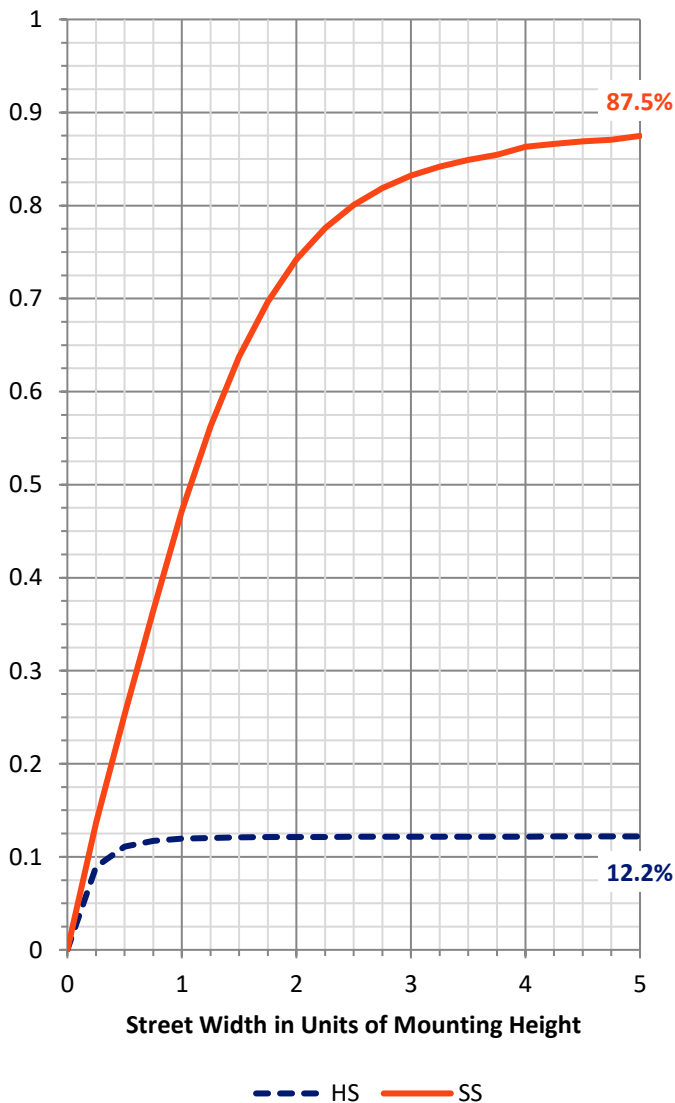
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3105.6	0.0	3105.6
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	22073.9	0.0	22073.9
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	25179.5	0.0	25179.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	619.0	2.5
10°-20°	1229.3	4.9
20°-30°	1802.5	7.2
30°-40°	2680.6	10.6
40°-50°	3901.1	15.5
50°-60°	5625.7	22.3
60°-70°	6187.7	24.6
70°-80°	2771.6	11.0
80°-90°	362.2	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°	25179.5	100.0
0°-180°	25179.5	100.0



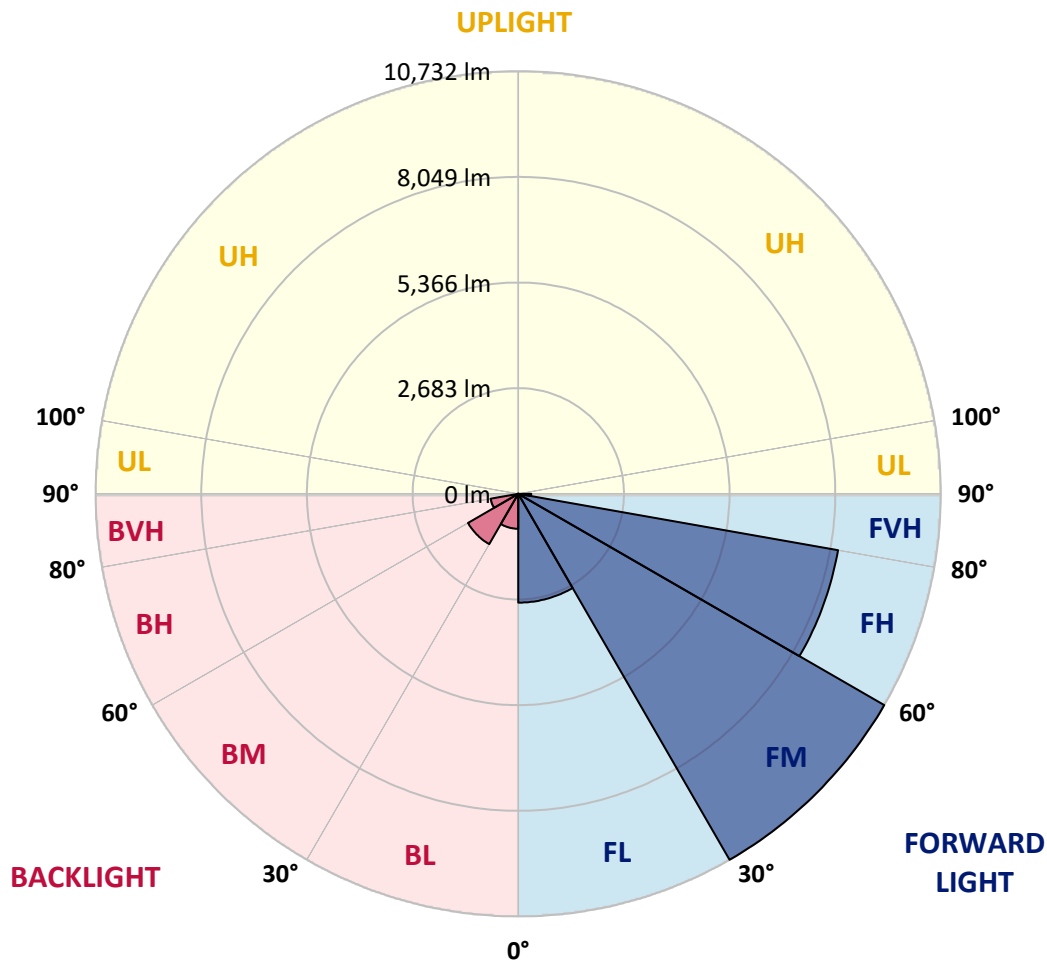
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2763.4	11.0			
FM (30°-60°)	10732.3	42.6			
FH (60°-80°)	8247.0	32.8			G4/12000
FVH (80°-90°)	331.2	1.3			G3/500
BL (0°-30°)	887.4	3.5	B2/1000		
BM (30°-60°)	1475.1	5.9	B2/2500		
BH (60°-80°)	712.2	2.8	B2/1000		G2/1000
BVH (80°-90°)	31.0	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8322.2	8322.2	8322.2	8322.2	8322.2	8322.2	8322.2	8322.2	8322.2	8322.2	8322.2
2.5°	9149.1	9108.9	9016.9	8737.6	8494.4	8176.7	7855.2	7602.6	7447.5	7162.3	7032.1
5°	8863.9	8883.0	8617.0	8042.7	7403.5	6967.1	6490.5	6111.5	5694.2	5430.1	5152.6
7.5°	8119.4	8081.0	7792.0	6991.9	6214.8	5583.2	4980.3	4490.4	4182.1	3935.2	3728.5
10°	7482.0	7453.2	7083.8	6054.1	5219.6	4746.8	4339.1	3910.4	3579.2	3217.5	2928.4
12.5°	7081.9	7016.8	6591.9	5516.2	4836.8	4396.5	3952.4	3506.5	3049.0	2683.5	2333.2
15°	6947.9	6854.2	6381.3	5330.6	4591.8	4032.8	3475.9	2962.9	2436.5	2032.7	1768.5
17.5°	7191.0	7036.0	6532.6	5298.0	4298.9	3558.2	2872.9	2204.9	1657.5	1349.4	1186.7
20°	7748.0	7570.0	6915.4	5265.5	3973.6	3026.1	2183.9	1558.0	1146.5	978.1	888.1
22.5°	8574.8	8329.9	7482.0	5317.1	3673.0	2507.4	1577.1	1100.5	911.1	805.8	742.6
25°	9568.2	9363.4	8199.7	5500.9	3435.7	2099.7	1219.2	899.6	767.5	702.5	654.6
27.5°	10657.3	10330.0	9128.0	5721.1	3219.4	1783.8	1069.9	803.9	683.3	623.9	599.1
30°	11432.5	11177.9	9905.1	5874.1	2949.6	1546.5	978.1	792.4	685.2	614.4	568.4
32.5°	12198.1	11872.7	10555.9	5944.9	2752.3	1381.9	846.0	691.0	601.0	564.6	518.7
35°	13017.3	12676.6	11204.7	5906.7	2605.0	1272.9	767.5	616.3	514.9	453.6	407.7
37.5°	13846.1	13486.3	11849.8	5768.9	2513.2	1228.8	706.3	585.7	486.2	423.0	373.2
40°	14829.9	14349.5	12454.6	5656.0	2417.5	1205.8	666.1	566.6	465.1	398.1	348.3
42.5°	15633.8	15176.3	13026.9	5596.6	2352.4	1152.3	666.1	551.3	451.7	377.1	325.4
45°	16395.5	15920.9	13645.1	5644.5	2325.5	1085.2	673.7	549.3	442.1	361.7	310.1
47.5°	17032.9	16621.4	14280.6	5824.4	2291.1	1012.5	633.5	576.1	436.4	348.3	294.8
50°	17785.1	17387.0	15120.8	6188.1	2229.8	939.8	583.7	620.2	434.5	336.9	281.4
52.5°	18845.5	18414.9	16280.8	6601.5	2132.2	828.8	537.8	614.4	426.8	317.7	267.9
55°	20141.4	19792.9	17624.4	7097.2	1998.2	704.3	465.1	545.5	403.8	285.2	245.0
57.5°	20972.0	20675.3	18631.2	7311.6	1793.4	576.1	409.6	457.4	369.4	254.6	218.2
59°	21069.7	20801.6	18841.7	7240.8	1659.5	526.4	382.8	392.4	359.9	237.3	202.8
60°	20987.3	20709.8	18757.5	7103.0	1535.1	491.9	359.9	348.3	361.7	227.7	191.4
62.5°	20459.1	19984.3	17940.2	6404.3	1341.7	451.7	319.7	285.2	319.7	204.8	170.4
65°	19438.9	18726.9	16322.8	5420.5	1265.2	428.7	271.8	239.3	243.0	179.9	147.3
67.5°	17656.9	16759.2	14169.6	4404.1	1232.7	430.7	229.7	214.4	187.5	153.1	130.2
70°	14839.4	13943.7	11369.3	3623.3	1217.3	430.7	195.2	183.8	156.9	128.3	112.9
72.5°	10515.7	9551.0	7669.5	2846.2	1096.7	428.7	166.5	166.5	128.3	107.2	91.8
75°	5941.2	5948.8	4821.5	2013.5	911.1	354.1	134.0	132.0	93.8	82.3	68.9
77.5°	3462.5	3401.3	3250.0	865.1	423.0	160.8	93.8	80.4	65.1	59.4	49.8
80°	1780.1	1464.3	1425.9	313.9	151.2	101.4	65.1	45.9	42.1	38.3	34.5
82.5°	526.4	528.2	470.9	126.3	84.2	67.0	32.5	24.9	23.0	21.0	21.0
85°	36.3	23.0	26.8	38.3	51.6	26.8	1.9	5.7	5.7	7.7	9.6
87.5°	3.9	1.9	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°	8322.2	8322.2	8322.2	8322.2	8322.2	8322.2	8322.2	8322.2	8322.2	8322.2	8322.2
2.5°	6888.6	6972.8	6815.9	6819.7	6689.6	6731.6	6578.6	6628.3	6538.4	6607.2	6810.1
5°	5183.2	5202.3	5076.0	5035.8	5054.9	5133.5	5164.1	5024.3	5083.7	4966.9	4959.2
7.5°	3652.0	3674.9	3602.2	3592.7	3730.4	3697.9	3757.3	3613.7	3477.8	3537.2	3428.0
10°	2836.6	2740.9	2591.6	2549.5	2522.7	2539.9	2539.9	2409.8	2390.6	2338.9	2417.5
12.5°	2239.4	2122.7	1981.1	1789.6	1741.8	1737.9	1667.1	1552.3	1515.9	1471.9	1536.9
15°	1626.9	1579.1	1460.4	1353.3	1244.1	1223.1	1108.2	1014.4	890.0	872.8	867.1
17.5°	1144.6	1073.8	1071.9	1010.6	947.5	905.3	798.1	691.0	643.1	637.4	637.4
20°	857.5	832.6	792.4	784.7	765.6	717.8	622.1	564.6	541.7	543.6	551.3
22.5°	721.6	704.3	668.0	650.8	643.1	601.0	530.2	491.9	480.5	480.5	482.3
25°	645.0	629.7	589.5	562.7	553.1	522.5	467.0	438.3	428.7	428.7	428.7
27.5°	587.6	568.4	526.4	503.4	486.2	451.7	417.2	388.5	379.0	379.0	380.9
30°	547.4	526.4	488.1	457.4	430.7	400.1	371.3	346.4	335.0	333.0	335.0
32.5°	493.8	474.7	436.4	417.2	386.6	350.3	327.3	304.4	292.8	294.8	292.8
35°	384.8	379.0	352.2	357.9	340.7	310.1	289.1	264.2	250.7	248.9	252.6
37.5°	350.3	327.3	296.7	298.6	292.8	281.4	246.9	220.1	210.5	210.5	212.4
40°	323.4	300.5	266.0	248.9	250.7	250.7	214.4	185.7	176.1	174.2	178.0
42.5°	300.5	277.5	239.3	210.5	202.8	212.4	181.8	153.1	143.6	139.7	143.6
45°	285.2	260.3	216.3	183.8	160.8	172.2	149.3	126.3	114.9	114.9	112.9
47.5°	269.9	246.9	199.1	158.9	134.0	128.3	122.5	101.4	90.0	88.1	90.0
50°	256.5	233.5	179.9	137.8	112.9	99.5	99.5	80.4	72.7	68.9	70.8
52.5°	243.0	218.2	162.7	122.5	97.6	80.4	70.8	65.1	59.4	57.4	59.4
55°	224.0	199.1	145.5	105.3	84.2	67.0	55.5	53.6	49.8	45.9	49.8
57.5°	201.0	178.0	128.3	90.0	67.0	51.6	45.9	44.0	40.2	38.3	38.3
59°	187.5	166.5	118.7	78.5	59.4	45.9	42.1	40.2	36.3	32.5	34.5
60°	179.9	162.7	112.9	72.7	53.6	42.1	38.3	36.3	32.5	30.6	32.5
62.5°	158.9	145.5	99.5	59.4	42.1	30.6	26.8	28.7	26.8	24.9	26.8
65°	139.7	128.3	84.2	45.9	32.5	21.0	19.2	24.9	23.0	21.0	23.0
67.5°	124.4	111.0	70.8	34.5	23.0	11.5	13.4	21.0	21.0	19.2	21.0
70°	107.2	95.7	57.4	24.9	11.5	5.7	9.6	15.3	19.2	17.2	19.2
72.5°	88.1	74.7	44.0	17.2	5.7	0.0	5.7	13.4	19.2	17.2	19.2
75°	68.9	55.5	32.5	9.6	0.0	0.0	1.9	11.5	19.2	17.2	19.2
77.5°	49.8	40.2	19.2	1.9	0.0	0.0	1.9	11.5	19.2	17.2	19.2
80°	32.5	28.7	7.7	0.0	0.0	0.0	1.9	11.5	19.2	19.2	21.0
82.5°	21.0	15.3	0.0	0.0	0.0	0.0	3.9	15.3	21.0	23.0	23.0
85°	9.6	0.0	0.0	0.0	0.0	0.0	7.7	19.2	24.9	24.9	24.9
87.5°	0.0	0.0	0.0	0.0	0.0	3.9	13.4	23.0	28.7	28.7	28.7
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°	8322.2	8322.2	8322.2	8322.2	8322.2	8322.2	8322.2	8322.2	8322.2	8322.2	8322.2
2.5°	6844.6	6965.2	7135.5	7397.7	7610.2	7945.1	8201.6	8551.9	8905.9	9013.2	9179.7
5°	5037.8	5192.8	5579.4	5931.6	6153.6	6861.8	7309.6	8016.0	8649.5	8953.8	9285.0
7.5°	3498.8	3682.6	3977.3	4469.2	4936.2	5512.4	6235.9	7043.6	7971.9	8406.4	8873.5
10°	2455.7	2685.4	3100.8	3504.6	4092.2	4639.6	5353.6	6245.5	7269.5	7782.4	8368.1
12.5°	1550.4	1755.2	2304.5	2758.1	3491.2	4126.6	4785.0	5592.8	6779.5	7305.9	7920.3
15°	886.2	1058.5	1314.9	1896.8	2710.3	3550.5	4371.6	5309.5	6528.8	7177.6	7841.7
17.5°	660.4	706.3	821.2	1150.3	1891.1	2872.9	3990.7	5223.4	6699.1	7460.8	8218.8
20°	555.1	585.7	639.2	769.4	1205.8	2212.6	3619.4	5238.7	7250.3	8207.3	8927.0
22.5°	497.6	516.8	560.8	645.0	823.0	1611.6	3185.0	5328.7	7918.4	9124.2	9954.8
25°	436.4	461.3	499.6	572.3	685.2	1117.8	2756.2	5529.7	8854.3	10287.9	11068.8
27.5°	388.5	411.5	449.8	516.8	601.0	853.6	2256.7	5701.9	9842.0	11459.3	12098.5
30°	340.7	363.6	401.9	455.6	532.1	691.0	1718.8	5803.3	10800.9	12337.8	12829.7
32.5°	300.5	319.7	356.0	403.8	467.0	585.7	1355.1	5698.0	11534.0	13136.0	13465.2
35°	260.3	283.2	313.9	357.9	413.4	499.6	1127.4	5334.4	12163.6	13957.1	14075.7
37.5°	218.2	245.0	277.5	317.7	361.7	459.4	905.3	4932.5	12837.4	14981.1	14785.9
40°	183.8	208.7	239.3	283.2	323.4	421.1	696.7	4503.7	13564.7	15941.9	15561.0
42.5°	149.3	176.1	212.4	252.6	319.7	367.5	539.8	4059.7	14217.4	16778.4	16261.6
45°	118.7	141.6	179.9	231.6	317.7	315.8	417.2	3621.3	14709.3	17375.6	16784.1
47.5°	93.8	112.9	151.2	225.9	292.8	267.9	335.0	3349.5	15226.1	17913.4	17184.2
50°	74.7	93.8	130.2	235.4	256.5	229.7	281.4	3393.6	15725.7	18187.1	17348.7
52.5°	63.2	82.3	112.9	185.7	197.1	201.0	246.9	3596.5	16370.7	18480.0	17676.1
55°	55.5	72.7	95.7	130.2	153.1	179.9	225.9	3743.9	17233.9	19107.8	18397.6
57.5°	44.0	63.2	86.1	111.0	126.3	156.9	208.7	3755.3	18014.8	19913.5	19356.5
59°	40.2	57.4	80.4	105.3	112.9	141.6	197.1	3657.7	18043.6	20034.1	19796.8
60°	36.3	55.5	76.5	97.6	107.2	134.0	187.5	3544.8	17783.3	19842.7	19978.6
62.5°	30.6	47.9	67.0	78.5	91.8	111.0	162.7	3135.2	16521.9	18975.7	19641.7
65°	26.8	42.1	57.4	65.1	76.5	95.7	143.6	2509.3	15128.5	17800.4	18677.1
67.5°	24.9	38.3	49.8	55.5	67.0	88.1	128.3	1772.4	13323.5	16309.4	17228.1
70°	23.0	36.3	44.0	51.6	59.4	74.7	109.1	1033.6	10263.1	13694.8	14665.3
72.5°	23.0	34.5	38.3	44.0	51.6	67.0	101.4	558.9	7016.8	10446.7	11700.5
75°	23.0	32.5	34.5	38.3	45.9	61.2	90.0	292.8	4536.3	7258.0	8957.7
77.5°	23.0	30.6	34.5	36.3	44.0	53.6	78.5	183.8	3022.2	5083.7	6054.1
80°	24.9	30.6	32.5	36.3	42.1	49.8	65.1	122.5	1776.2	3058.6	3684.5
82.5°	26.8	30.6	34.5	38.3	44.0	47.9	57.4	76.5	819.2	2023.1	2289.2
85°	28.7	32.5	36.3	40.2	45.9	47.9	53.6	55.5	134.0	913.0	1234.6
87.5°	30.6	34.5	38.3	42.1	49.8	49.8	49.8	49.8	45.9	97.6	248.9
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: P650970

CATALOG NUMBER: GALN-SA6C-840-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8322.2	8322.2	8322.2	8322.2	8322.2	8322.2	8322.2	8322.2	8322.2	8322.2
2.5°	9390.2	9606.5	9757.7	9796.0	9686.9	9637.1	9499.3	9285.0	9154.8	9149.1
5°	9895.5	10402.7	10755.0	10814.3	10603.7	10247.7	9824.7	9279.2	8959.6	8863.9
7.5°	9809.4	10697.5	11264.1	11346.4	10992.3	10312.8	9493.5	8615.0	8266.7	8119.4
10°	9455.3	10538.7	11348.3	11478.5	11005.7	10048.7	9007.4	8027.4	7594.9	7482.0
12.5°	9152.9	10247.7	10967.4	11147.3	10789.4	9834.3	8716.5	7650.4	7187.2	7081.9
15°	9020.8	9903.2	10343.4	10435.3	10375.9	9700.3	8685.8	7593.0	7062.8	6947.9
17.5°	9152.9	9610.4	9665.9	9759.6	9891.7	9686.9	8980.6	7905.0	7332.7	7191.0
20°	9499.3	9355.8	9126.1	9166.3	9468.7	9742.4	9505.1	8595.9	7899.2	7748.0
22.5°	10088.9	9292.6	8772.0	8737.6	9120.3	9928.1	10274.5	9531.9	8724.1	8574.8
25°	10812.3	9451.5	8641.9	8567.2	8984.5	10199.9	11111.0	10678.3	9796.0	9568.2
27.5°	11600.9	9780.7	8641.9	8569.1	8973.0	10441.0	11826.8	11692.8	10906.2	10657.3
30°	12033.5	10052.5	8766.2	8683.9	9114.6	10580.8	12209.6	12594.3	11740.6	11432.5
32.5°	12420.1	10429.6	9009.3	8854.3	9411.3	10787.5	12552.2	13360.0	12404.8	12198.1
35°	12776.1	10833.4	9344.3	9164.4	9801.8	11070.8	12931.2	14163.8	13329.3	13017.3
37.5°	13168.5	11302.4	9866.8	9713.7	10454.4	11621.9	13381.0	15220.3	14238.5	13846.1
40°	13595.4	11845.9	10726.2	10661.1	11491.8	12246.0	13949.4	16347.7	15275.8	14829.9
42.5°	14029.8	12471.8	11779.0	11886.1	12667.1	13120.7	14533.2	17214.8	16125.7	15633.8
45°	14424.2	13271.9	13147.4	13677.7	14037.5	13974.3	14965.8	17825.3	16866.4	16395.5
47.5°	14921.8	14437.5	14803.1	15620.4	15630.0	14902.6	15293.1	18324.9	17503.8	17032.9
50°	15478.8	15813.7	16941.1	17773.7	17549.7	15815.6	15675.9	18916.4	18162.2	17785.1
52.5°	16123.8	17354.5	18916.4	19840.8	19318.3	16810.9	16313.3	19555.6	19207.3	18845.5
55°	16874.1	18405.3	20885.9	21622.8	21096.4	18047.4	17281.8	20422.7	20388.2	20141.4
57.5°	17722.0	19515.4	22026.6	23023.9	22554.9	19498.2	18635.0	21240.0	21109.9	20972.0
59°	18391.9	20085.9	22530.1	23563.6	23280.3	20514.6	19544.2	21749.1	21276.4	21069.7
60°	18797.7	20472.5	22715.7	23636.3	23571.3	21119.4	20120.3	21998.0	21274.4	20987.3
62.5°	20001.6	21148.1	22644.9	23312.9	23567.4	22279.3	21810.3	22271.6	20880.2	20459.1
65°	20430.3	20924.2	21471.6	21389.2	21607.5	22220.0	22889.8	21971.1	20038.0	19438.9
67.5°	19595.8	18468.4	18661.8	18112.4	18005.3	19754.7	22451.6	20501.1	18390.0	17656.9
70°	16518.1	14148.5	14050.9	14303.6	13610.7	15993.6	20160.5	17670.3	15670.2	14839.4
72.5°	13002.0	9998.9	9175.8	10106.0	10085.0	12201.9	16747.8	12538.8	10586.5	10515.7
75°	10224.7	6961.3	6109.6	6260.8	6551.7	8833.3	13338.8	7962.3	6519.2	5941.2
77.5°	6863.7	4932.5	4601.4	4415.7	4729.5	5671.3	8438.9	4318.0	3655.8	3462.5
80°	3956.3	3583.1	4069.3	3694.1	3862.5	3573.5	4197.4	1981.1	1644.2	1780.1
82.5°	2574.4	2040.4	2174.3	1615.5	2208.8	2227.9	1347.5	585.7	495.8	526.4
85°	1609.7	957.0	537.8	382.8	761.8	1401.1	421.1	36.3	42.1	36.3
87.5°	417.2	158.9	67.0	99.5	122.5	109.1	97.6	5.7	1.9	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)