

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: P459165

Luminaire Tested: **GALN-SA6C-735-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459165  
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-735-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 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: 27890 lumens  
Efficiency: N/A  
Efficacy: 86.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

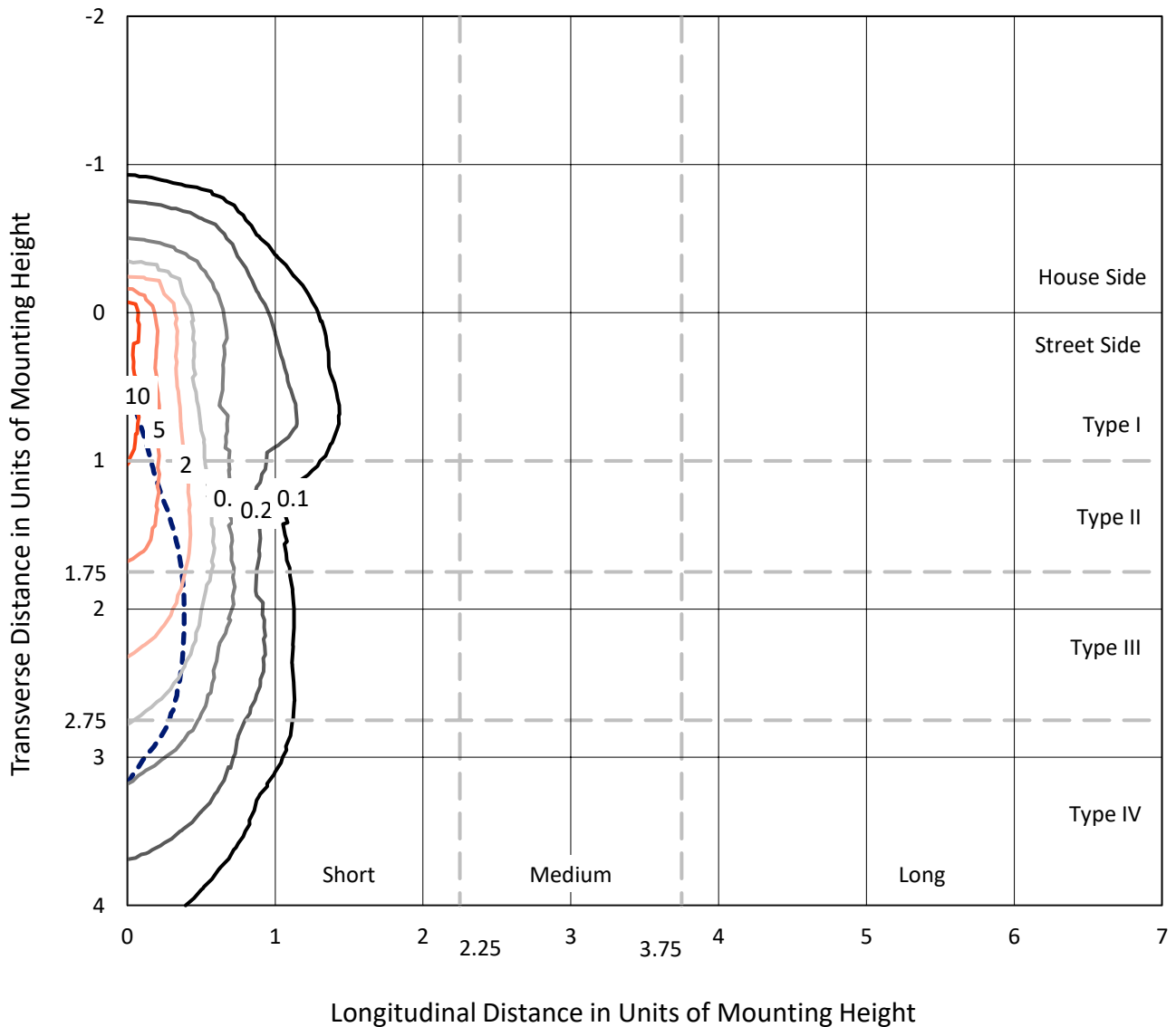
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

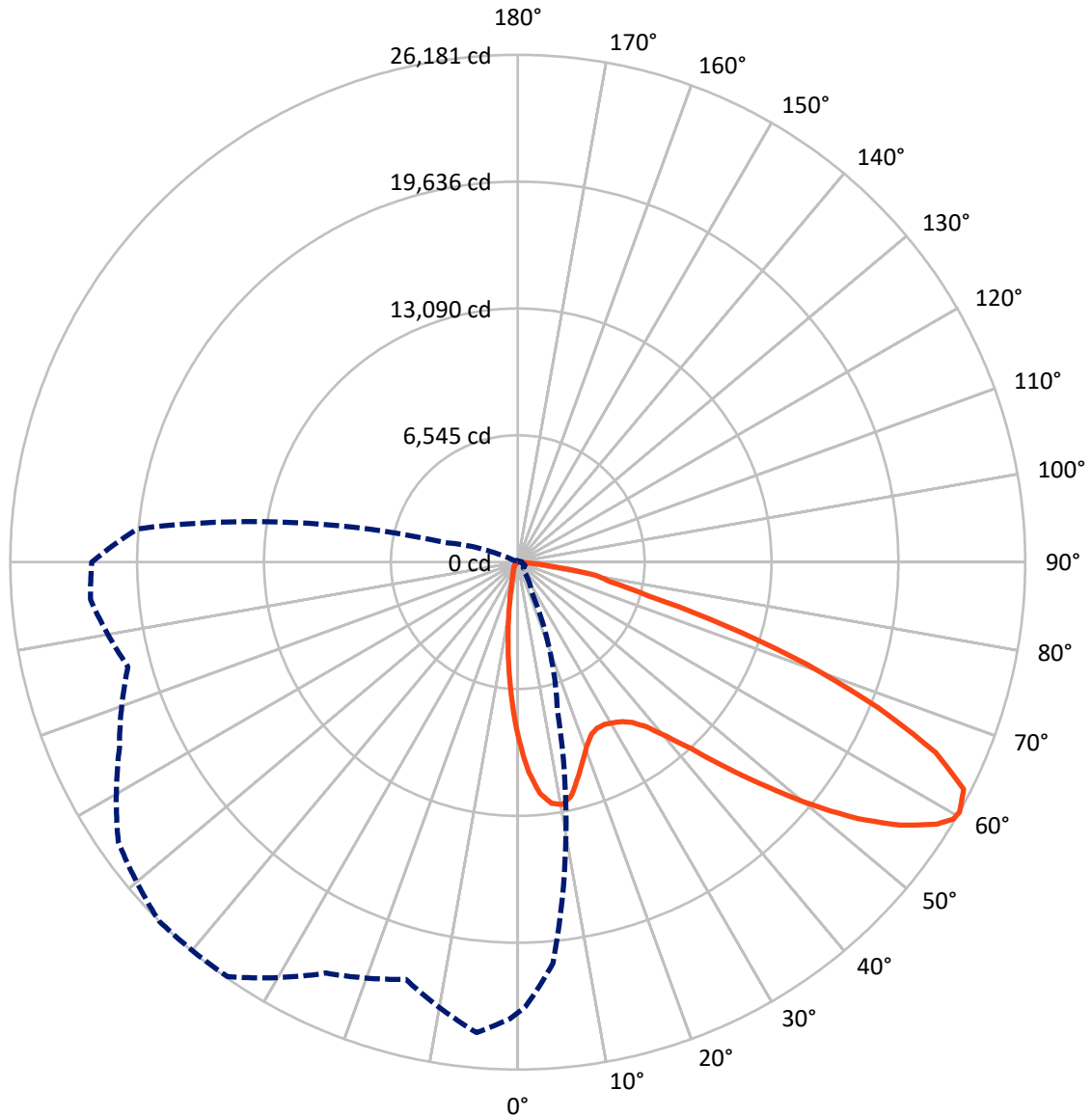
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 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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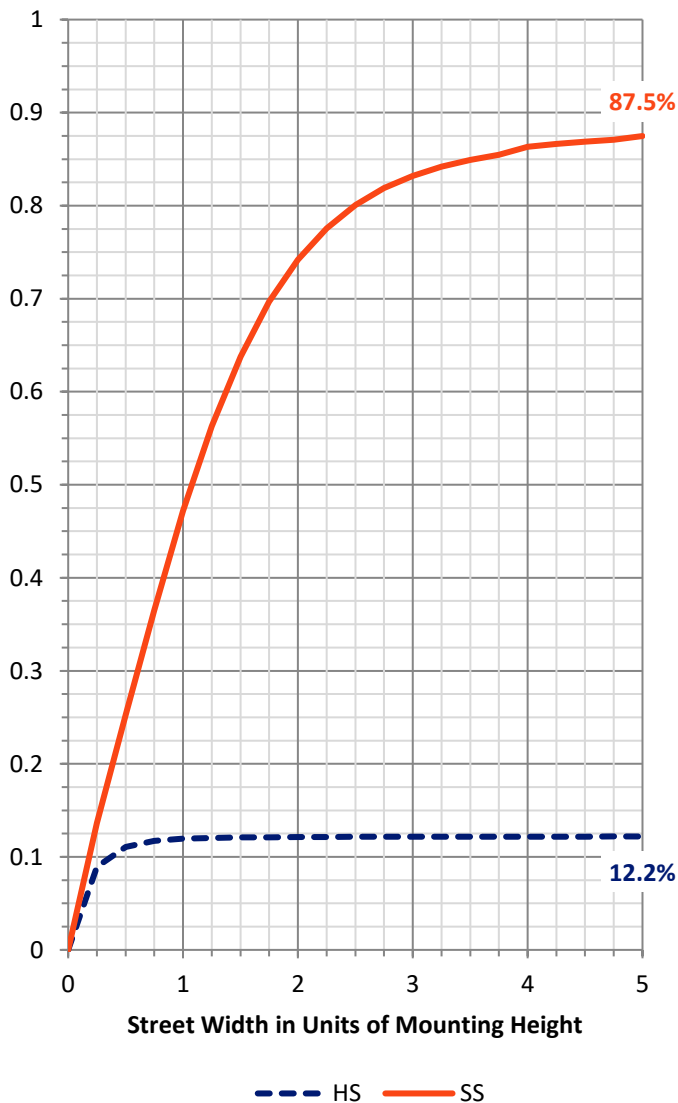
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3440.0	0.0	3440.0
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	24450.0	0.0	24450.0
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	27890.0	0.0	27890.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	685.6	2.5
10°-20°	1361.6	4.9
20°-30°	1996.5	7.2
30°-40°	2969.2	10.6
40°-50°	4321.0	15.5
50°-60°	6231.3	22.3
60°-70°	6853.7	24.6
70°-80°	3069.9	11.0
80°-90°	401.1	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°	27890.0	100.0
0°-180°	27890.0	100.0



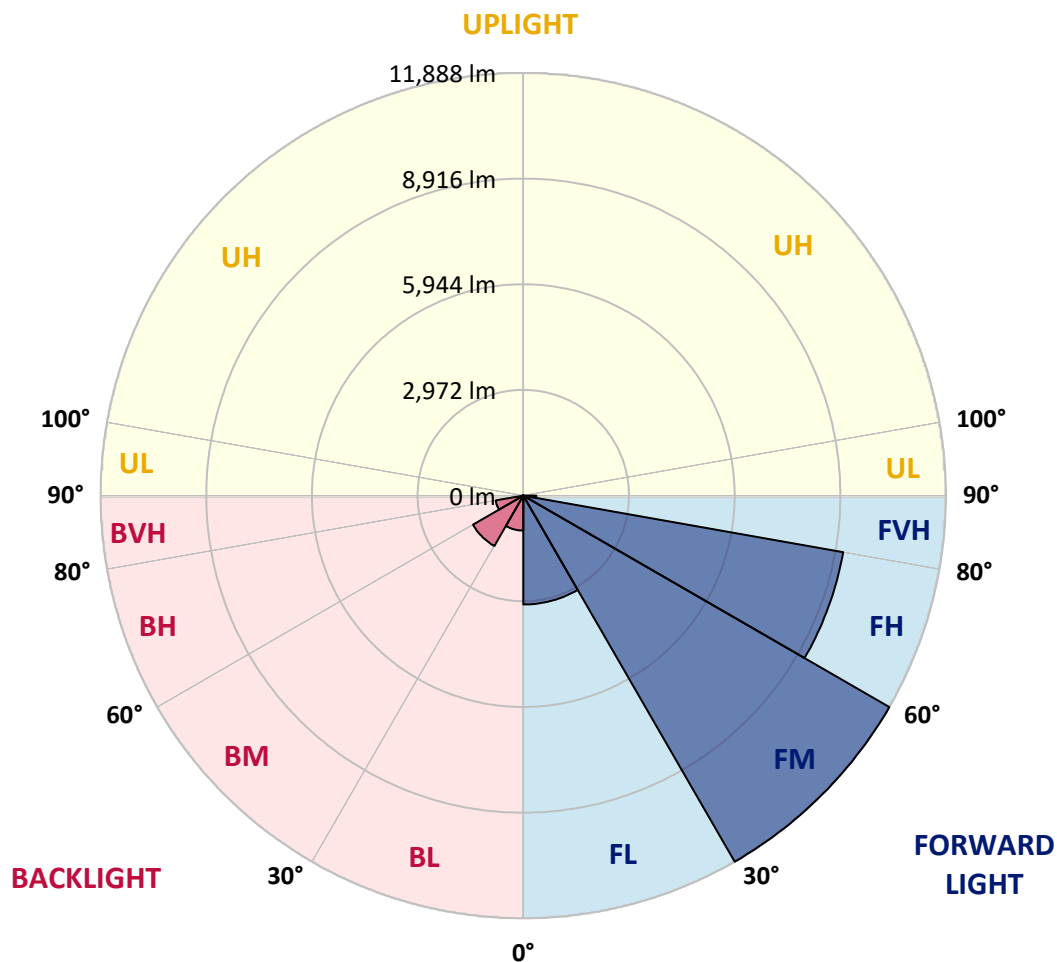
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3060.8	11.0			
FM (30°-60°)	11887.6	42.6			
FH (60°-80°)	9134.8	32.8			G4/12000
FVH (80°-90°)	366.8	1.3			G3/500
BL (0°-30°)	982.9	3.5	B2/1000		
BM (30°-60°)	1633.9	5.9	B2/2500		
BH (60°-80°)	788.9	2.8	B2/1000		G2/1000
BVH (80°-90°)	34.3	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°	9218.0	9218.0	9218.0	9218.0	9218.0	9218.0	9218.0	9218.0	9218.0	9218.0	9218.0
2.5°	10133.9	10089.4	9987.6	9678.1	9408.8	9056.9	8700.7	8420.9	8249.2	7933.3	7789.1
5°	9818.0	9839.2	9544.5	8908.5	8200.4	7717.0	7189.1	6769.4	6307.2	6014.6	5707.2
7.5°	8993.3	8950.9	8630.8	7744.6	6883.9	6184.2	5516.4	4973.7	4632.3	4358.9	4129.9
10°	8287.3	8255.5	7846.4	6705.8	5781.4	5257.8	4806.2	4331.3	3964.5	3563.8	3243.7
12.5°	7844.2	7772.2	7301.5	6110.0	5357.4	4869.8	4377.9	3884.0	3377.3	2972.3	2584.4
15°	7695.8	7592.0	7068.3	5904.4	5086.0	4467.0	3850.0	3281.9	2698.8	2251.5	1958.9
17.5°	7965.1	7793.4	7235.8	5868.3	4761.7	3941.2	3182.2	2442.3	1836.0	1494.6	1314.4
20°	8582.0	8384.9	7659.8	5832.3	4401.3	3351.8	2419.0	1725.7	1269.9	1083.4	983.7
22.5°	9497.9	9226.5	8287.3	5889.5	4068.4	2777.3	1746.9	1219.0	1009.2	892.5	822.6
25°	10598.2	10371.4	9082.4	6093.1	3805.5	2325.7	1350.5	996.4	850.1	778.1	725.1
27.5°	11804.5	11442.0	10110.6	6336.9	3565.9	1975.9	1185.1	890.4	756.9	691.1	663.6
30°	12663.1	12381.2	10971.3	6506.5	3267.0	1713.0	1083.4	877.7	759.0	680.5	629.7
32.5°	13511.2	13150.8	11692.2	6584.9	3048.7	1530.7	937.1	765.3	665.7	625.4	574.5
35°	14418.6	14041.2	12410.9	6542.5	2885.4	1409.8	850.1	682.7	570.3	502.5	451.6
37.5°	15336.6	14938.0	13125.3	6389.9	2783.6	1361.1	782.3	648.7	538.5	468.5	413.4
40°	16426.3	15894.1	13795.3	6264.8	2677.6	1335.6	737.8	627.5	515.2	441.0	385.9
42.5°	17316.7	16810.0	14429.2	6199.1	2605.6	1276.3	737.8	610.6	500.3	417.7	360.4
45°	18160.5	17634.7	15113.9	6252.1	2575.9	1202.1	746.3	608.5	489.7	400.7	343.5
47.5°	18866.5	18410.6	15817.8	6451.4	2537.7	1121.5	701.7	638.1	483.4	385.9	326.5
50°	19699.6	19258.7	16748.5	6854.2	2469.9	1041.0	646.6	686.9	481.3	373.1	311.6
52.5°	20874.2	20397.1	18033.3	7312.1	2361.8	918.0	595.7	680.5	472.8	351.9	296.8
55°	22309.4	21923.6	19521.6	7861.2	2213.3	780.2	515.2	604.2	447.3	315.9	271.4
57.5°	23229.6	22900.9	20636.7	8098.6	1986.5	638.1	453.7	506.7	409.2	282.0	241.7
59°	23337.7	23040.9	20869.9	8020.2	1838.1	583.0	424.0	434.6	398.6	262.9	224.7
60°	23246.5	22939.1	20776.6	7867.6	1700.3	544.9	398.6	385.9	400.7	252.3	212.0
62.5°	22661.4	22135.6	19871.4	7093.7	1486.2	500.3	354.1	315.9	354.1	226.8	188.7
65°	21531.4	20742.7	18079.9	6004.0	1401.4	474.9	301.0	265.0	269.2	199.3	163.2
67.5°	19557.6	18563.3	15694.8	4878.3	1365.3	477.0	254.4	237.4	207.8	169.6	144.2
70°	16436.9	15444.7	12593.2	4013.3	1348.4	477.0	216.2	203.5	173.8	142.0	125.1
72.5°	11647.6	10579.1	8495.1	3152.5	1214.8	474.9	184.4	184.4	142.0	118.7	101.8
75°	6580.7	6589.2	5340.4	2230.3	1009.2	392.2	148.4	146.3	103.9	91.2	76.3
77.5°	3835.2	3767.4	3599.9	958.3	468.5	178.1	103.9	89.0	72.1	65.7	55.1
80°	1971.7	1621.8	1579.4	347.7	167.5	112.4	72.1	50.9	46.6	42.4	38.2
82.5°	583.0	585.1	521.5	139.9	93.3	74.2	36.0	27.6	25.4	23.3	23.3
85°	40.3	25.4	29.7	42.4	57.2	29.7	2.1	6.4	6.4	8.5	10.6
87.5°	4.2	2.1	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°	9218.0	9218.0	9218.0	9218.0	9218.0	9218.0	9218.0	9218.0	9218.0	9218.0	9218.0
2.5°	7630.1	7723.4	7549.6	7553.8	7409.6	7456.3	7286.7	7341.8	7242.1	7318.5	7543.2
5°	5741.1	5762.3	5622.4	5577.9	5599.1	5686.0	5719.9	5565.2	5630.9	5501.6	5493.1
7.5°	4045.1	4070.5	3990.0	3979.4	4132.0	4096.0	4161.7	4002.7	3852.2	3917.9	3797.0
10°	3141.9	3035.9	2870.6	2823.9	2794.2	2813.3	2813.3	2669.2	2648.0	2590.7	2677.6
12.5°	2480.5	2351.2	2194.3	1982.3	1929.3	1925.0	1846.6	1719.4	1679.1	1630.3	1702.4
15°	1802.1	1749.1	1617.6	1498.9	1378.0	1354.7	1227.5	1123.6	985.8	966.7	960.4
17.5°	1267.8	1189.4	1187.2	1119.4	1049.4	1002.8	884.1	765.3	712.3	706.0	706.0
20°	949.8	922.2	877.7	869.2	848.0	795.0	689.0	625.4	600.0	602.1	610.6
22.5°	799.3	780.2	739.9	720.8	712.3	665.7	587.3	544.9	532.1	532.1	534.3
25°	714.5	697.5	653.0	623.3	612.7	578.8	517.3	485.5	474.9	474.9	474.9
27.5°	650.9	629.7	583.0	557.6	538.5	500.3	462.2	430.4	419.8	419.8	421.9
30°	606.3	583.0	540.6	506.7	477.0	443.1	411.3	383.7	371.0	368.9	371.0
32.5°	547.0	525.8	483.4	462.2	428.3	388.0	362.5	337.1	324.4	326.5	324.4
35°	426.1	419.8	390.1	396.5	377.4	343.5	320.1	292.6	277.7	275.6	279.8
37.5°	388.0	362.5	328.6	330.7	324.4	311.6	273.5	243.8	233.2	233.2	235.3
40°	358.3	332.9	294.7	275.6	277.7	277.7	237.4	205.6	195.0	192.9	197.2
42.5°	332.9	307.4	265.0	233.2	224.7	235.3	201.4	169.6	159.0	154.8	159.0
45°	315.9	288.3	239.6	203.5	178.1	190.8	165.4	139.9	127.2	127.2	125.1
47.5°	298.9	273.5	220.5	176.0	148.4	142.0	135.7	112.4	99.6	97.5	99.6
50°	284.1	258.6	199.3	152.6	125.1	110.2	110.2	89.0	80.6	76.3	78.4
52.5°	269.2	241.7	180.2	135.7	108.1	89.0	78.4	72.1	65.7	63.6	65.7
55°	248.0	220.5	161.1	116.6	93.3	74.2	61.5	59.4	55.1	50.9	55.1
57.5°	222.6	197.2	142.0	99.6	74.2	57.2	50.9	48.8	44.5	42.4	42.4
59°	207.8	184.4	131.4	86.9	65.7	50.9	46.6	44.5	40.3	36.0	38.2
60°	199.3	180.2	125.1	80.6	59.4	46.6	42.4	40.3	36.0	33.9	36.0
62.5°	176.0	161.1	110.2	65.7	46.6	33.9	29.7	31.8	29.7	27.6	29.7
65°	154.8	142.0	93.3	50.9	36.0	23.3	21.2	27.6	25.4	23.3	25.4
67.5°	137.8	123.0	78.4	38.2	25.4	12.7	14.8	23.3	23.3	21.2	23.3
70°	118.7	106.0	63.6	27.6	12.7	6.4	10.6	17.0	21.2	19.1	21.2
72.5°	97.5	82.7	48.8	19.1	6.4	0.0	6.4	14.8	21.2	19.1	21.2
75°	76.3	61.5	36.0	10.6	0.0	0.0	2.1	12.7	21.2	19.1	21.2
77.5°	55.1	44.5	21.2	2.1	0.0	0.0	2.1	12.7	21.2	19.1	21.2
80°	36.0	31.8	8.5	0.0	0.0	0.0	2.1	12.7	21.2	21.2	23.3
82.5°	23.3	17.0	0.0	0.0	0.0	0.0	4.2	17.0	23.3	25.4	25.4
85°	10.6	0.0	0.0	0.0	0.0	0.0	8.5	21.2	27.6	27.6	27.6
87.5°	0.0	0.0	0.0	0.0	0.0	4.2	14.8	25.4	31.8	31.8	31.8
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°	9218.0	9218.0	9218.0	9218.0	9218.0	9218.0	9218.0	9218.0	9218.0	9218.0	9218.0
2.5°	7581.4	7714.9	7903.6	8194.1	8429.4	8800.4	9084.5	9472.5	9864.7	9983.4	10167.8
5°	5580.0	5751.7	6180.0	6570.1	6816.0	7600.4	8096.5	8878.8	9580.6	9917.7	10284.4
7.5°	3875.5	4079.0	4405.5	4950.4	5467.6	6105.8	6907.2	7801.8	8830.1	9311.3	9828.6
10°	2720.0	2974.5	3434.5	3881.8	4532.7	5139.0	5929.8	6917.8	8052.0	8620.2	9268.9
12.5°	1717.3	1944.1	2552.6	3055.0	3867.0	4570.9	5300.2	6194.8	7509.3	8092.3	8772.8
15°	981.6	1172.4	1456.5	2101.0	3002.0	3932.7	4842.2	5881.1	7231.5	7950.2	8685.9
17.5°	731.4	782.3	909.5	1274.2	2094.6	3182.2	4420.3	5785.7	7420.2	8264.0	9103.6
20°	614.8	648.7	708.1	852.3	1335.6	2450.8	4009.0	5802.6	8030.8	9090.8	9888.0
22.5°	551.2	572.4	621.2	714.5	911.6	1785.1	3527.8	5902.3	8770.7	10106.4	11026.5
25°	483.4	510.9	553.3	633.9	759.0	1238.1	3052.9	6124.9	9807.4	11395.4	12260.3
27.5°	430.4	455.8	498.2	572.4	665.7	945.5	2499.6	6315.7	10901.4	12692.8	13400.9
30°	377.4	402.8	445.2	504.6	589.4	765.3	1903.8	6428.0	11963.5	13665.9	14210.8
32.5°	332.9	354.1	394.3	447.3	517.3	648.7	1501.0	6311.4	12775.5	14550.0	14914.7
35°	288.3	313.8	347.7	396.5	457.9	553.3	1248.7	5908.6	13473.0	15459.5	15591.0
37.5°	241.7	271.4	307.4	351.9	400.7	508.8	1002.8	5463.4	14219.3	16593.8	16377.5
40°	203.5	231.1	265.0	313.8	358.3	466.4	771.7	4988.5	15024.9	17658.0	17236.1
42.5°	165.4	195.0	235.3	279.8	354.1	407.1	597.9	4496.7	15747.8	18584.5	18012.1
45°	131.4	156.9	199.3	256.5	351.9	349.8	462.2	4011.2	16292.7	19246.0	18590.9
47.5°	103.9	125.1	167.5	250.2	324.4	296.8	371.0	3710.1	16865.1	19841.7	19033.9
50°	82.7	103.9	144.2	260.8	284.1	254.4	311.6	3758.9	17418.5	20144.9	19216.3
52.5°	70.0	91.2	125.1	205.6	218.4	222.6	273.5	3983.6	18132.9	20469.2	19578.8
55°	61.5	80.6	106.0	144.2	169.6	199.3	250.2	4146.8	19089.1	21164.6	20378.1
57.5°	48.8	70.0	95.4	123.0	139.9	173.8	231.1	4159.6	19954.1	22057.2	21440.2
59°	44.5	63.6	89.0	116.6	125.1	156.9	218.4	4051.4	19985.9	22190.7	21927.8
60°	40.3	61.5	84.8	108.1	118.7	148.4	207.8	3926.4	19697.5	21978.7	22129.2
62.5°	33.9	53.0	74.2	86.9	101.8	123.0	180.2	3472.7	18300.4	21018.3	21756.1
65°	29.7	46.6	63.6	72.1	84.8	106.0	159.0	2779.4	16757.0	19716.6	20687.6
67.5°	27.6	42.4	55.1	61.5	74.2	97.5	142.0	1963.2	14757.8	18065.1	19082.7
70°	25.4	40.3	48.8	57.2	65.7	82.7	120.8	1144.8	11367.8	15169.1	16243.9
72.5°	25.4	38.2	42.4	48.8	57.2	74.2	112.4	619.1	7772.2	11571.3	12960.0
75°	25.4	36.0	38.2	42.4	50.9	67.8	99.6	324.4	5024.6	8039.3	9921.9
77.5°	25.4	33.9	38.2	40.3	48.8	59.4	86.9	203.5	3347.6	5630.9	6705.8
80°	27.6	33.9	36.0	40.3	46.6	55.1	72.1	135.7	1967.4	3387.9	4081.1
82.5°	29.7	33.9	38.2	42.4	48.8	53.0	63.6	84.8	907.4	2240.9	2535.6
85°	31.8	36.0	40.3	44.5	50.9	53.0	59.4	61.5	148.4	1011.3	1367.4
87.5°	33.9	38.2	42.4	46.6	55.1	55.1	55.1	55.1	50.9	108.1	275.6
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: P459165

CATALOG NUMBER: GALN-SA6C-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9218.0	9218.0	9218.0	9218.0	9218.0	9218.0	9218.0	9218.0	9218.0	9218.0
2.5°	10401.0	10640.6	10808.1	10850.5	10729.7	10674.5	10521.9	10284.4	10140.3	10133.9
5°	10960.7	11522.6	11912.6	11978.4	11745.2	11350.8	10882.3	10278.1	9924.0	9818.0
7.5°	10865.3	11849.0	12476.6	12567.7	12175.5	11422.9	10515.5	9542.4	9156.6	8993.3
10°	10473.1	11673.1	12569.9	12714.0	12190.4	11130.3	9977.0	8891.6	8412.4	8287.3
12.5°	10138.2	11350.8	12148.0	12347.3	11950.8	10892.9	9654.8	8473.9	7960.8	7844.2
15°	9991.9	10969.2	11456.8	11558.6	11492.9	10744.5	9620.9	8410.3	7823.0	7695.8
17.5°	10138.2	10644.8	10706.3	10810.2	10956.5	10729.7	9947.3	8755.9	8122.0	7965.1
20°	10521.9	10362.9	10108.5	10153.0	10488.0	10791.1	10528.2	9521.2	8749.5	8582.0
22.5°	11174.9	10292.9	9716.3	9678.1	10102.1	10996.8	11380.5	10557.9	9663.3	9497.9
25°	11976.2	10468.9	9572.1	9489.4	9951.6	11297.8	12307.0	11827.8	10850.5	10598.2
27.5°	12849.7	10833.5	9572.1	9491.5	9938.9	11565.0	13099.9	12951.5	12080.1	11804.5
30°	13328.9	11134.6	9709.9	9618.7	10095.8	11719.7	13523.9	13950.0	13004.5	12663.1
32.5°	13757.1	11552.2	9979.1	9807.4	10424.4	11948.7	13903.4	14798.1	13740.1	13511.2
35°	14151.4	11999.6	10350.2	10150.9	10856.9	12262.5	14323.2	15688.5	14764.1	14418.6
37.5°	14586.0	12519.0	10928.9	10759.3	11579.8	12873.0	14821.4	16858.8	15771.2	15336.6
40°	15058.8	13121.1	11880.8	11808.8	12728.9	13564.2	15451.0	18107.5	16920.2	16426.3
42.5°	15540.1	13814.3	13046.9	13165.6	14030.6	14533.0	16097.7	19067.9	17861.5	17316.7
45°	15976.8	14700.5	14562.7	15150.0	15548.6	15478.6	16576.8	19744.2	18682.0	18160.5
47.5°	16528.0	15991.7	16396.6	17301.9	17312.5	16506.8	16939.3	20297.5	19388.0	18866.5
50°	17145.0	17516.0	18764.7	19686.9	19438.9	17518.1	17363.3	20952.6	20117.3	19699.6
52.5°	17859.4	19222.6	20952.6	21976.6	21397.8	18620.5	18069.3	21660.7	21274.9	20874.2
55°	18690.5	20386.5	23134.2	23950.4	23367.4	19990.1	19142.1	22621.1	22582.9	22309.4
57.5°	19629.7	21616.2	24397.7	25502.3	24982.8	21597.1	20641.0	23526.4	23382.2	23229.6
59°	20371.7	22248.0	24955.3	26100.1	25786.4	22722.9	21648.0	24090.3	23566.6	23337.7
60°	20821.2	22676.2	25160.9	26180.7	26108.6	23392.8	22286.1	24365.9	23564.5	23246.5
62.5°	22154.7	23424.6	25082.5	25822.4	26104.4	24677.6	24158.1	24669.1	23127.8	22661.4
65°	22629.6	23176.6	23782.9	23691.7	23933.4	24611.8	25353.9	24336.2	22195.0	21531.4
67.5°	21705.2	20456.5	20670.6	20062.2	19943.5	21881.2	24868.4	22708.0	20369.6	19557.6
70°	18296.2	15671.5	15563.4	15843.2	15075.8	17715.3	22330.6	19572.4	17357.0	16436.9
72.5°	14401.6	11075.2	10163.6	11193.9	11170.6	13515.4	18550.6	13888.5	11726.1	11647.6
75°	11325.4	7710.7	6767.2	6934.7	7257.0	9784.1	14774.7	8819.5	7220.9	6580.7
77.5°	7602.6	5463.4	5096.6	4891.0	5238.7	6281.8	9347.4	4782.9	4049.3	3835.2
80°	4382.2	3968.8	4507.3	4091.7	4278.3	3958.2	4649.3	2194.3	1821.1	1971.7
82.5°	2851.5	2260.0	2408.4	1789.3	2446.6	2467.8	1492.5	648.7	549.1	583.0
85°	1783.0	1060.0	595.7	424.0	843.8	1551.9	466.4	40.3	46.6	40.3
87.5°	462.2	176.0	74.2	110.2	135.7	120.8	108.1	6.4	2.1	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)