

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: P452640

Luminaire Tested: **GALN-SA3C-760-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452640  
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-SA3C-760-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5700K, 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: 15072 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

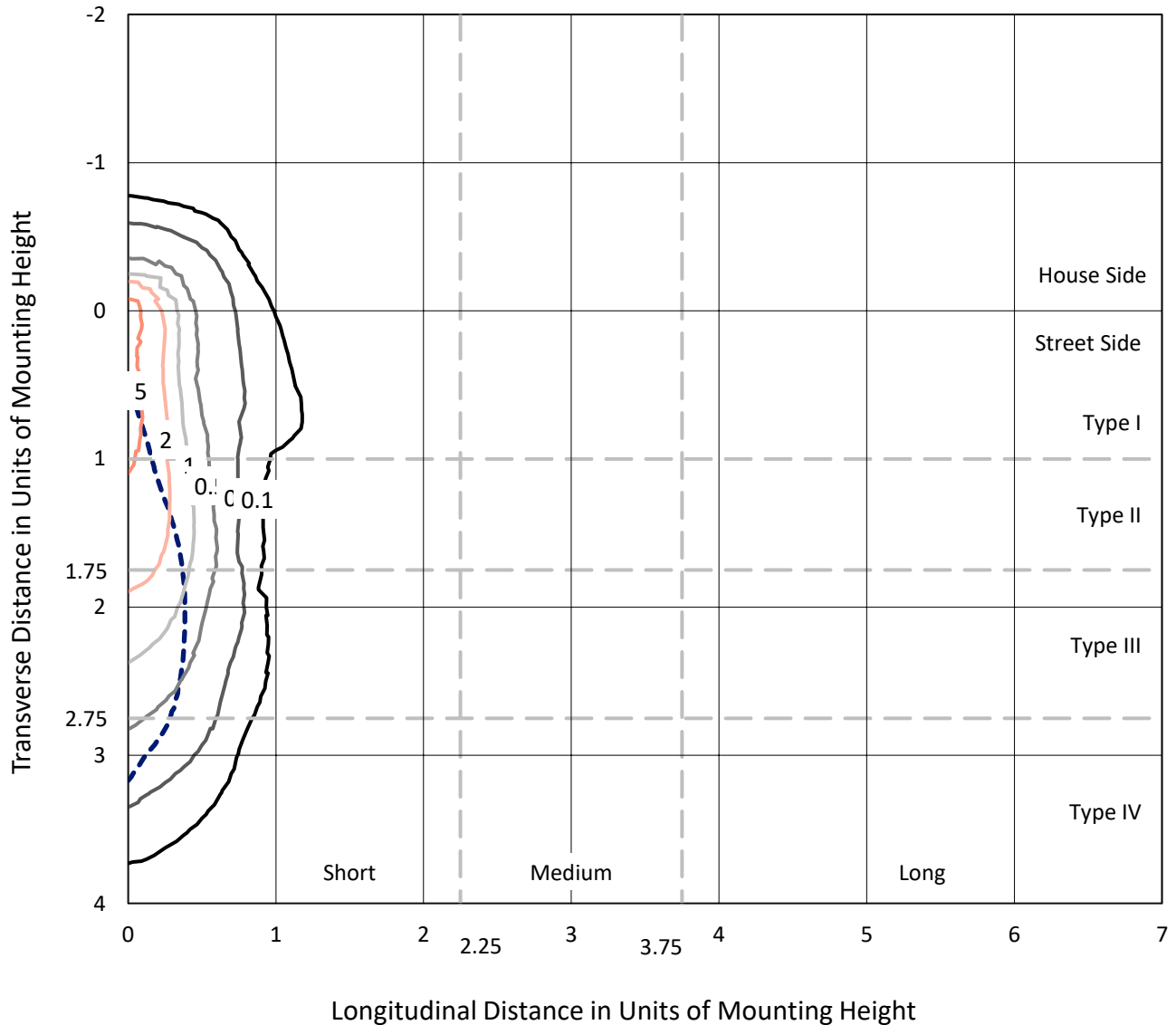
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

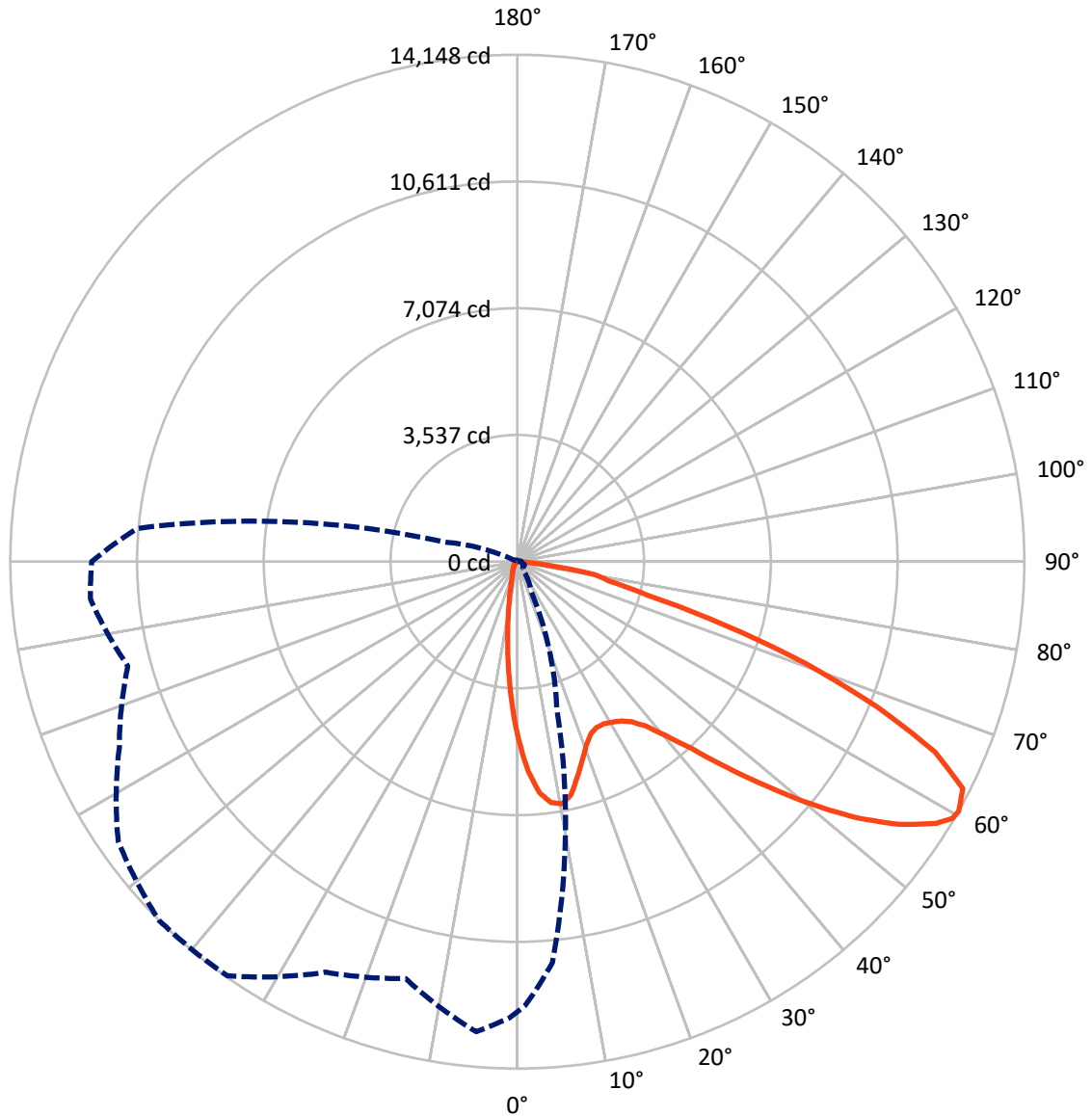
× Max cd  
 - - - 1/2 Max cd



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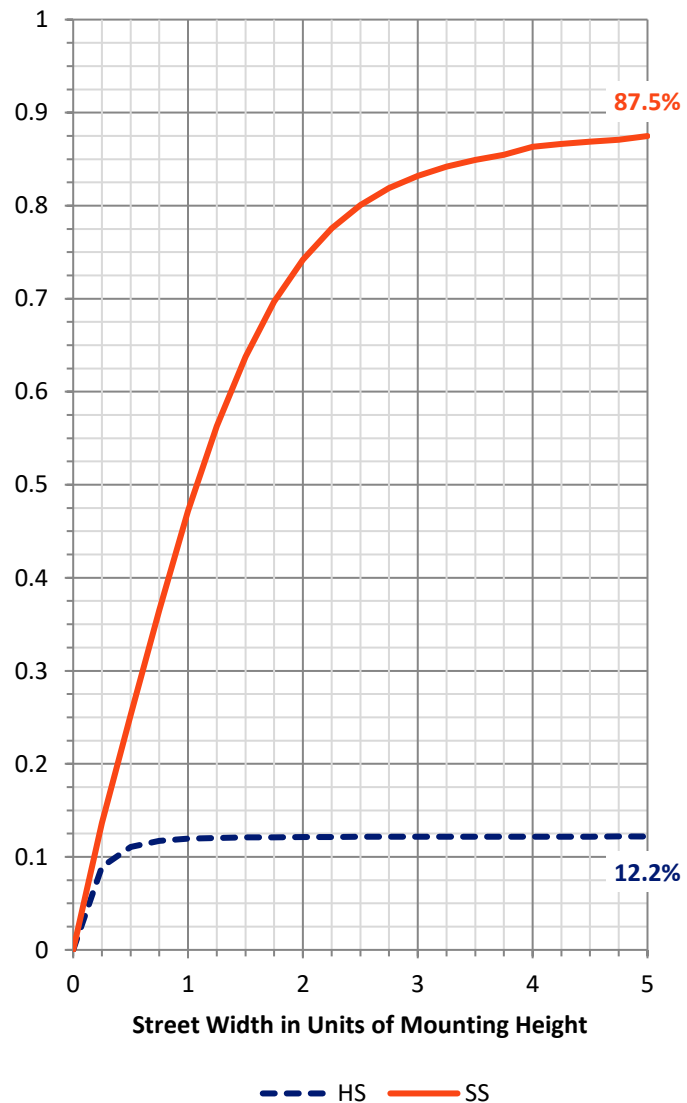
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1859.0	0.0	1859.0
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	13213.0	0.0	13213.0
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	15072.0	0.0	15072.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	370.5	2.5
10°-20°	735.8	4.9
20°-30°	1078.9	7.2
30°-40°	1604.6	10.6
40°-50°	2335.1	15.5
50°-60°	3367.4	22.3
60°-70°	3703.8	24.6
70°-80°	1659.0	11.0
80°-90°	216.8	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°	15072.0	100.0
0°-180°	15072.0	100.0

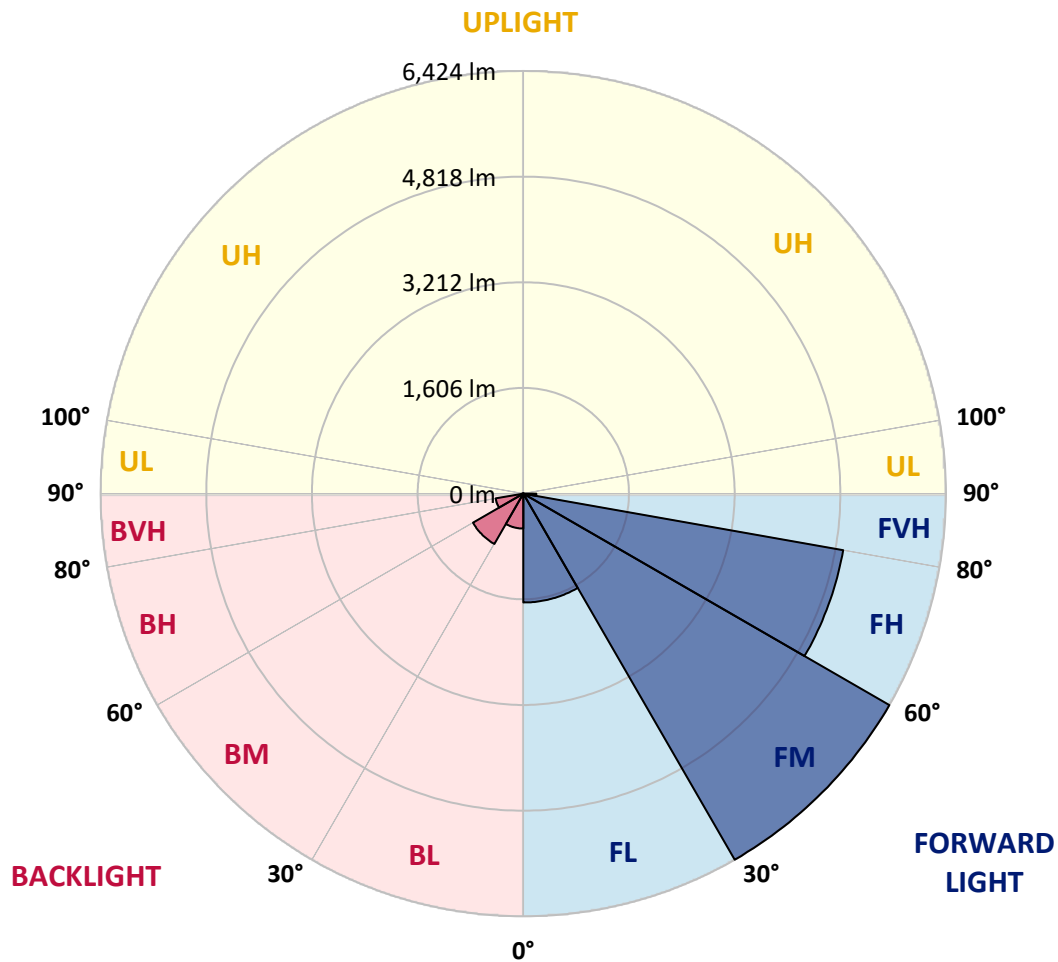


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1654.1	11.0			
FM (30°-60°)	6424.1	42.6			
FH (60°-80°)	4936.5	32.8			G2/5000
FVH (80°-90°)	198.2	1.3			G2/225
BL (0°-30°)	531.2	3.5	B2/1000		
BM (30°-60°)	883.0	5.9	B1/1000		
BH (60°-80°)	426.3	2.8	B1/500		G1/500
BVH (80°-90°)	18.5	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-G2**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5
2.5°	5476.5	5452.4	5397.4	5230.1	5084.6	4894.4	4702.0	4550.7	4457.9	4287.2	4209.3
5°	5305.7	5317.2	5157.9	4814.2	4431.6	4170.4	3885.1	3658.2	3408.5	3250.4	3084.2
7.5°	4860.1	4837.2	4664.2	4185.2	3720.1	3342.0	2981.1	2687.8	2503.4	2355.6	2231.8
10°	4478.5	4461.4	4240.2	3623.9	3124.3	2841.3	2597.3	2340.7	2142.5	1925.9	1752.9
12.5°	4239.1	4200.1	3945.8	3301.9	2895.2	2631.7	2365.9	2098.9	1825.1	1606.3	1396.6
15°	4158.9	4102.8	3819.8	3190.8	2748.5	2414.0	2080.6	1773.5	1458.5	1216.7	1058.6
17.5°	4304.4	4211.6	3910.3	3171.3	2573.2	2129.9	1719.7	1319.8	992.2	807.7	710.3
20°	4637.8	4531.3	4139.4	3151.8	2378.5	1811.4	1307.2	932.6	686.3	585.5	531.6
22.5°	5132.7	4986.1	4478.5	3182.8	2198.6	1500.9	944.1	658.8	545.4	482.3	444.5
25°	5727.4	5604.8	4908.2	3292.7	2056.5	1256.8	729.8	538.5	459.4	420.5	391.8
27.5°	6379.3	6183.4	5463.9	3424.5	1927.1	1067.8	640.4	481.2	409.0	373.5	358.6
30°	6843.3	6690.9	5929.0	3516.2	1765.5	925.7	585.5	474.3	410.2	367.8	340.3
32.5°	7301.6	7106.8	6318.5	3558.5	1647.5	827.2	506.4	413.6	359.8	338.0	310.5
35°	7791.9	7588.0	6706.9	3535.6	1559.3	761.9	459.4	368.9	308.2	271.5	244.0
37.5°	8288.0	8072.6	7093.0	3453.1	1504.3	735.5	422.8	350.6	291.0	253.2	223.4
40°	8876.9	8589.3	7455.1	3385.5	1447.0	721.8	398.7	339.1	278.4	238.3	208.5
42.5°	9358.1	9084.3	7797.6	3350.0	1408.1	689.7	398.7	330.0	270.4	225.7	194.8
45°	9814.1	9529.9	8167.7	3378.7	1392.0	649.6	403.3	328.8	264.7	216.5	185.6
47.5°	10195.6	9949.3	8548.1	3486.4	1371.4	606.1	379.2	344.9	261.2	208.5	176.4
50°	10645.9	10407.6	9051.0	3704.1	1334.7	562.5	349.4	371.2	260.1	201.6	168.4
52.5°	11280.6	11022.8	9745.3	3951.5	1276.3	496.1	321.9	367.8	255.5	190.2	160.4
55°	12056.2	11847.7	10549.6	4248.3	1196.1	421.6	278.4	326.5	241.7	170.7	146.6
57.5°	12553.5	12375.9	11152.3	4376.6	1073.5	344.9	245.2	273.8	221.1	152.4	130.6
59°	12611.9	12451.5	11278.3	4334.2	993.3	315.1	229.1	234.9	215.4	142.1	121.4
60°	12562.6	12396.5	11227.9	4251.7	918.9	294.4	215.4	208.5	216.5	136.3	114.6
62.5°	12246.4	11962.3	10738.7	3833.5	803.1	270.4	191.3	170.7	191.3	122.6	102.0
65°	11635.7	11209.5	9770.5	3244.6	757.3	256.6	162.7	143.2	145.5	107.7	88.2
67.5°	10569.1	10031.8	8481.6	2636.3	737.8	257.8	137.5	128.3	112.3	91.7	77.9
70°	8882.6	8346.4	6805.5	2168.8	728.7	257.8	116.9	110.0	93.9	76.8	67.6
72.5°	6294.5	5717.1	4590.8	1703.7	656.5	256.6	99.7	99.7	76.8	64.2	55.0
75°	3556.3	3560.8	2886.0	1205.3	545.4	212.0	80.2	79.1	56.1	49.3	41.2
77.5°	2072.6	2035.9	1945.4	517.9	253.2	96.2	56.1	48.1	39.0	35.5	29.8
80°	1065.5	876.5	853.5	187.9	90.5	60.7	39.0	27.5	25.2	22.9	20.6
82.5°	315.1	316.2	281.8	75.6	50.4	40.1	19.5	14.9	13.7	12.6	12.6
85°	21.8	13.7	16.0	22.9	30.9	16.0	1.1	3.4	3.4	4.6	5.7
87.5°	2.3	1.1	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°	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5
2.5°	4123.4	4173.8	4079.8	4082.1	4004.2	4029.4	3937.8	3967.6	3913.7	3955.0	4076.4
5°	3102.6	3114.0	3038.4	3014.3	3025.8	3072.8	3091.1	3007.5	3043.0	2973.1	2968.5
7.5°	2186.0	2199.7	2156.2	2150.5	2233.0	2213.5	2249.0	2163.1	2081.7	2117.3	2052.0
10°	1697.9	1640.6	1551.3	1526.1	1510.0	1520.3	1520.3	1442.4	1431.0	1400.0	1447.0
12.5°	1340.5	1270.6	1185.8	1071.2	1042.6	1040.3	997.9	929.2	907.4	881.0	920.0
15°	973.8	945.2	874.2	810.0	744.7	732.1	663.4	607.2	532.8	522.4	519.0
17.5°	685.1	642.7	641.6	604.9	567.1	541.9	477.8	413.6	385.0	381.5	381.5
20°	513.3	498.4	474.3	469.7	458.3	429.6	372.4	338.0	324.2	325.4	330.0
22.5°	431.9	421.6	399.8	389.5	385.0	359.8	317.4	294.4	287.6	287.6	288.7
25°	386.1	376.9	352.9	336.8	331.1	312.8	279.6	262.4	256.6	256.6	256.6
27.5°	351.7	340.3	315.1	301.3	291.0	270.4	249.8	232.6	226.8	226.8	228.0
30°	327.7	315.1	292.2	273.8	257.8	239.5	222.3	207.4	200.5	199.4	200.5
32.5°	295.6	284.1	261.2	249.8	231.4	209.7	195.9	182.2	175.3	176.4	175.3
35°	230.3	226.8	210.8	214.2	203.9	185.6	173.0	158.1	150.1	148.9	151.2
37.5°	209.7	195.9	177.6	178.7	175.3	168.4	147.8	131.8	126.0	126.0	127.2
40°	193.6	179.9	159.3	148.9	150.1	150.1	128.3	111.1	105.4	104.3	106.6
42.5°	179.9	166.1	143.2	126.0	121.4	127.2	108.8	91.7	85.9	83.6	85.9
45°	170.7	155.8	129.5	110.0	96.2	103.1	89.4	75.6	68.7	68.7	67.6
47.5°	161.5	147.8	119.2	95.1	80.2	76.8	73.3	60.7	53.8	52.7	53.8
50°	153.5	139.8	107.7	82.5	67.6	59.6	59.6	48.1	43.5	41.2	42.4
52.5°	145.5	130.6	97.4	73.3	58.4	48.1	42.4	39.0	35.5	34.4	35.5
55°	134.0	119.2	87.1	63.0	50.4	40.1	33.2	32.1	29.8	27.5	29.8
57.5°	120.3	106.6	76.8	53.8	40.1	30.9	27.5	26.4	24.1	22.9	22.9
59°	112.3	99.7	71.0	47.0	35.5	27.5	25.2	24.1	21.8	19.5	20.6
60°	107.7	97.4	67.6	43.5	32.1	25.2	22.9	21.8	19.5	18.3	19.5
62.5°	95.1	87.1	59.6	35.5	25.2	18.3	16.0	17.2	16.0	14.9	16.0
65°	83.6	76.8	50.4	27.5	19.5	12.6	11.5	14.9	13.7	12.6	13.7
67.5°	74.5	66.5	42.4	20.6	13.7	6.9	8.0	12.6	12.6	11.5	12.6
70°	64.2	57.3	34.4	14.9	6.9	3.4	5.7	9.2	11.5	10.3	11.5
72.5°	52.7	44.7	26.4	10.3	3.4	0.0	3.4	8.0	11.5	10.3	11.5
75°	41.2	33.2	19.5	5.7	0.0	0.0	1.1	6.9	11.5	10.3	11.5
77.5°	29.8	24.1	11.5	1.1	0.0	0.0	1.1	6.9	11.5	10.3	11.5
80°	19.5	17.2	4.6	0.0	0.0	0.0	1.1	6.9	11.5	11.5	12.6
82.5°	12.6	9.2	0.0	0.0	0.0	0.0	2.3	9.2	12.6	13.7	13.7
85°	5.7	0.0	0.0	0.0	0.0	0.0	4.6	11.5	14.9	14.9	14.9
87.5°	0.0	0.0	0.0	0.0	0.0	2.3	8.0	13.7	17.2	17.2	17.2
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°	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5
2.5°	4097.0	4169.2	4271.2	4428.1	4555.3	4755.8	4909.3	5119.0	5331.0	5395.1	5494.8
5°	3015.5	3108.3	3339.7	3550.5	3683.4	4107.3	4375.4	4798.2	5177.4	5359.6	5557.8
7.5°	2094.3	2204.3	2380.8	2675.2	2954.8	3299.6	3732.7	4216.2	4771.8	5031.9	5311.5
10°	1469.9	1607.4	1856.0	2097.8	2449.5	2777.2	3204.5	3738.4	4351.4	4658.4	5009.0
12.5°	928.0	1050.6	1379.4	1651.0	2089.8	2470.1	2864.3	3347.7	4058.1	4373.1	4740.9
15°	530.5	633.6	787.1	1135.4	1622.3	2125.3	2616.8	3178.2	3908.0	4296.4	4693.9
17.5°	395.3	422.8	491.5	688.6	1132.0	1719.7	2388.8	3126.6	4010.0	4465.9	4919.6
20°	332.3	350.6	382.7	460.6	721.8	1324.4	2166.5	3135.8	4339.9	4912.8	5343.6
22.5°	297.9	309.3	335.7	386.1	492.7	964.7	1906.4	3189.6	4739.8	5461.6	5958.8
25°	261.2	276.1	299.0	342.6	410.2	669.1	1649.8	3309.9	5300.0	6158.1	6625.6
27.5°	232.6	246.3	269.2	309.3	359.8	511.0	1350.8	3413.0	5891.2	6859.3	7242.0
30°	203.9	217.7	240.6	272.7	318.5	413.6	1028.8	3473.8	6465.2	7385.2	7679.6
32.5°	179.9	191.3	213.1	241.7	279.6	350.6	811.2	3410.8	6904.0	7863.0	8060.0
35°	155.8	169.6	187.9	214.2	247.5	299.0	674.8	3193.1	7280.9	8354.5	8425.5
37.5°	130.6	146.6	166.1	190.2	216.5	275.0	541.9	2952.5	7684.2	8967.4	8850.5
40°	110.0	124.9	143.2	169.6	193.6	252.1	417.0	2695.8	8119.6	9542.6	9314.6
42.5°	89.4	105.4	127.2	151.2	191.3	220.0	323.1	2430.0	8510.3	10043.2	9733.9
45°	71.0	84.8	107.7	138.6	190.2	189.0	249.8	2167.7	8804.7	10400.7	10046.7
47.5°	56.1	67.6	90.5	135.2	175.3	160.4	200.5	2005.0	9114.1	10722.6	10286.1
50°	44.7	56.1	77.9	140.9	153.5	137.5	168.4	2031.3	9413.1	10886.5	10384.6
52.5°	37.8	49.3	67.6	111.1	118.0	120.3	147.8	2152.8	9799.2	11061.8	10580.6
55°	33.2	43.5	57.3	77.9	91.7	107.7	135.2	2241.0	10315.9	11437.5	11012.5
57.5°	26.4	37.8	51.6	66.5	75.6	93.9	124.9	2247.9	10783.3	11919.9	11586.5
59°	24.1	34.4	48.1	63.0	67.6	84.8	118.0	2189.4	10800.5	11992.1	11850.0
60°	21.8	33.2	45.8	58.4	64.2	80.2	112.3	2121.8	10644.7	11877.5	11958.8
62.5°	18.3	28.6	40.1	47.0	55.0	66.5	97.4	1876.7	9889.7	11358.5	11757.2
65°	16.0	25.2	34.4	39.0	45.8	57.3	85.9	1502.0	9055.6	10655.0	11179.8
67.5°	14.9	22.9	29.8	33.2	40.1	52.7	76.8	1060.9	7975.2	9762.5	10312.5
70°	13.7	21.8	26.4	30.9	35.5	44.7	65.3	618.7	6143.3	8197.5	8778.4
72.5°	13.7	20.6	22.9	26.4	30.9	40.1	60.7	334.5	4200.1	6253.2	7003.7
75°	13.7	19.5	20.6	22.9	27.5	36.7	53.8	175.3	2715.3	4344.5	5361.9
77.5°	13.7	18.3	20.6	21.8	26.4	32.1	47.0	110.0	1809.1	3043.0	3623.9
80°	14.9	18.3	19.5	21.8	25.2	29.8	39.0	73.3	1063.2	1830.8	2205.5
82.5°	16.0	18.3	20.6	22.9	26.4	28.6	34.4	45.8	490.4	1211.0	1370.3
85°	17.2	19.5	21.8	24.1	27.5	28.6	32.1	33.2	80.2	546.5	739.0
87.5°	18.3	20.6	22.9	25.2	29.8	29.8	29.8	29.8	27.5	58.4	148.9
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: P452640

CATALOG NUMBER: GALN-SA3C-760-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5	4981.5
2.5°	5620.8	5750.3	5840.8	5863.7	5798.4	5768.6	5686.1	5557.8	5479.9	5476.5
5°	5923.3	6226.9	6437.7	6473.2	6347.2	6134.1	5880.9	5554.4	5363.0	5305.7
7.5°	5871.7	6403.3	6742.5	6791.7	6579.8	6173.0	5682.7	5156.8	4948.3	4860.1
10°	5659.8	6308.2	6792.9	6870.8	6587.8	6014.9	5391.7	4805.1	4546.1	4478.5
12.5°	5478.7	6134.1	6564.9	6672.6	6458.3	5886.6	5217.5	4579.4	4302.1	4239.1
15°	5399.7	5927.9	6191.4	6246.4	6210.8	5806.4	5199.2	4545.0	4227.6	4158.9
17.5°	5478.7	5752.6	5785.8	5841.9	5921.0	5798.4	5375.6	4731.7	4389.2	4304.4
20°	5686.1	5600.2	5462.7	5486.8	5667.8	5831.6	5689.6	5145.3	4728.3	4637.8
22.5°	6039.0	5562.4	5250.8	5230.1	5459.3	5942.8	6150.1	5705.6	5222.1	5132.7
25°	6472.1	5657.5	5172.8	5128.2	5377.9	6105.4	6650.8	6391.9	5863.7	5727.4
27.5°	6944.1	5854.5	5172.8	5129.3	5371.1	6249.8	7079.3	6999.1	6528.2	6379.3
30°	7203.0	6017.2	5247.3	5198.0	5455.8	6333.4	7308.4	7538.7	7027.7	6843.3
32.5°	7434.5	6242.9	5392.8	5300.0	5633.4	6457.2	7513.5	7997.0	7425.3	7301.6
35°	7647.6	6484.7	5593.3	5485.6	5867.1	6626.7	7740.4	8478.2	7978.7	7791.9
37.5°	7882.4	6765.4	5906.1	5814.4	6257.8	6956.7	8009.6	9110.6	8522.9	8288.0
40°	8137.9	7090.7	6420.5	6381.6	6878.8	7330.2	8349.9	9785.4	9143.8	8876.9
42.5°	8398.0	7465.4	7050.6	7114.8	7582.3	7853.8	8699.3	10304.4	9652.5	9358.1
45°	8634.0	7944.3	7869.8	8187.2	8402.6	8364.8	8958.2	10669.9	10095.9	9814.1
47.5°	8931.9	8642.0	8860.9	9350.1	9355.8	8920.4	9154.2	10968.9	10477.4	10195.6
50°	9265.3	9465.8	10140.6	10639.0	10504.9	9466.9	9383.3	11323.0	10871.6	10645.9
52.5°	9651.4	10388.1	11323.0	11876.3	11563.6	10062.7	9764.8	11705.6	11497.1	11280.6
55°	10100.5	11017.1	12501.9	12943.0	12627.9	10802.8	10344.5	12224.6	12204.0	12056.2
57.5°	10608.1	11681.6	13184.7	13781.6	13500.9	11671.3	11154.6	12713.9	12635.9	12553.5
59°	11009.0	12023.0	13486.1	14104.7	13935.2	12279.6	11698.8	13018.6	12735.6	12611.9
60°	11251.9	12254.4	13597.2	14148.3	14109.3	12641.7	12043.6	13167.6	12734.5	12562.6
62.5°	11972.6	12658.9	13554.8	13954.6	14107.0	13336.0	13055.3	13331.4	12498.5	12246.4
65°	12229.2	12524.8	12852.5	12803.2	12933.8	13300.5	13701.4	13151.5	11994.4	11635.7
67.5°	11729.7	11054.9	11170.6	10841.8	10777.6	11824.8	13439.1	12271.6	11007.9	10569.1
70°	9887.4	8469.0	8410.6	8561.8	8147.1	9573.5	12067.7	10577.1	9379.9	8882.6
72.5°	7782.8	5985.1	5492.5	6049.3	6036.7	7303.8	10024.9	7505.5	6336.9	6294.5
75°	6120.3	4166.9	3657.1	3747.6	3921.7	5287.4	7984.4	4766.1	3902.3	3556.3
77.5°	4108.5	2952.5	2754.3	2643.1	2831.0	3394.7	5051.4	2584.7	2188.3	2072.6
80°	2368.2	2144.8	2435.8	2211.2	2312.0	2139.0	2512.5	1185.8	984.2	1065.5
82.5°	1541.0	1221.3	1301.5	967.0	1322.1	1333.6	806.6	350.6	296.7	315.1
85°	963.5	572.9	321.9	229.1	456.0	838.7	252.1	21.8	25.2	21.8
87.5°	249.8	95.1	40.1	59.6	73.3	65.3	58.4	3.4	1.1	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)