

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: P455366

Luminaire Tested: **GALN-SA6C-740-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455366  
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-740-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 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: 29940 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

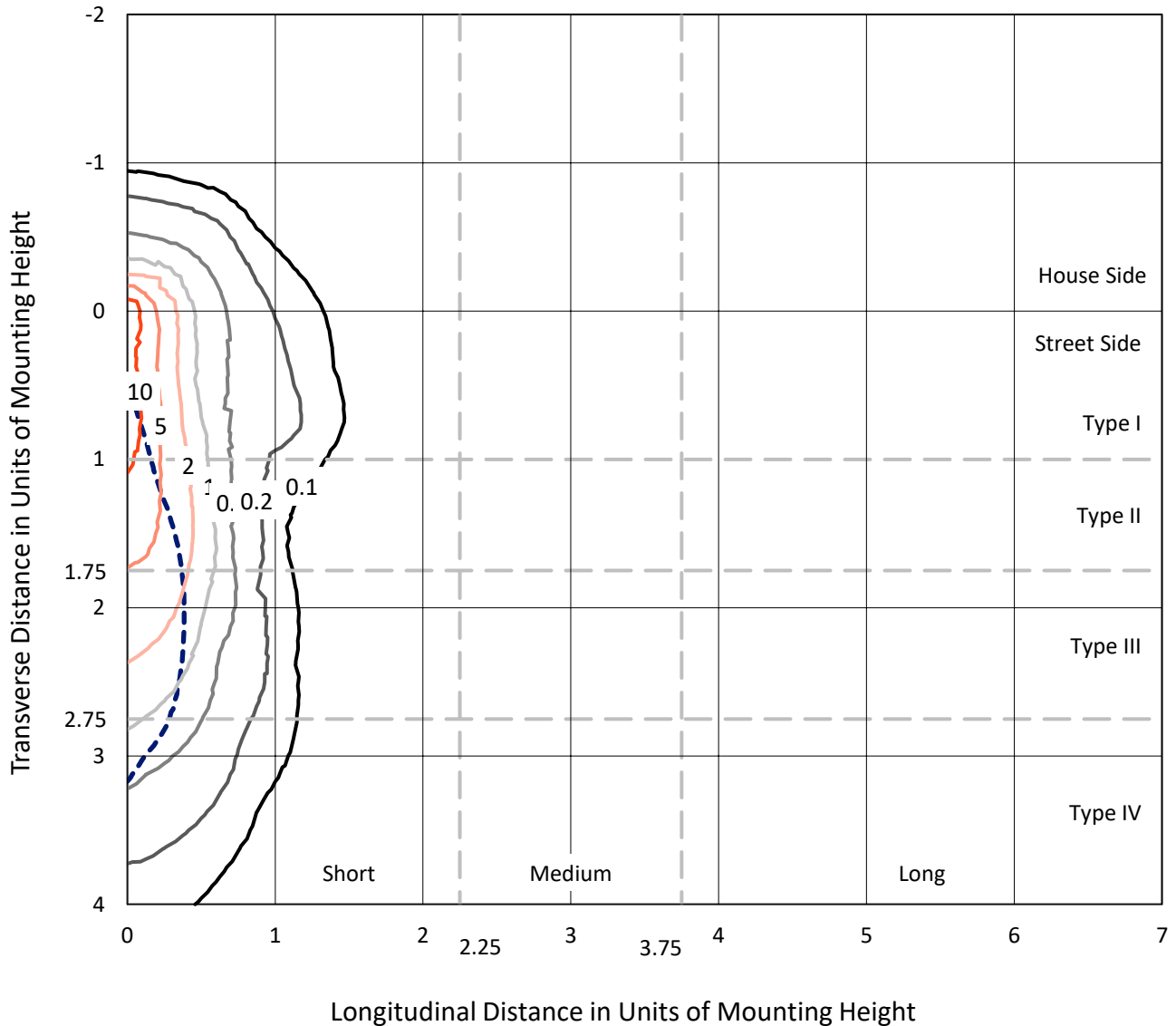
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P455366  
 CATALOG NUMBER: GALN-SA6C-740-U-SLR-HSS

### Iso-Footcandle Lines of Horizontal Illumination

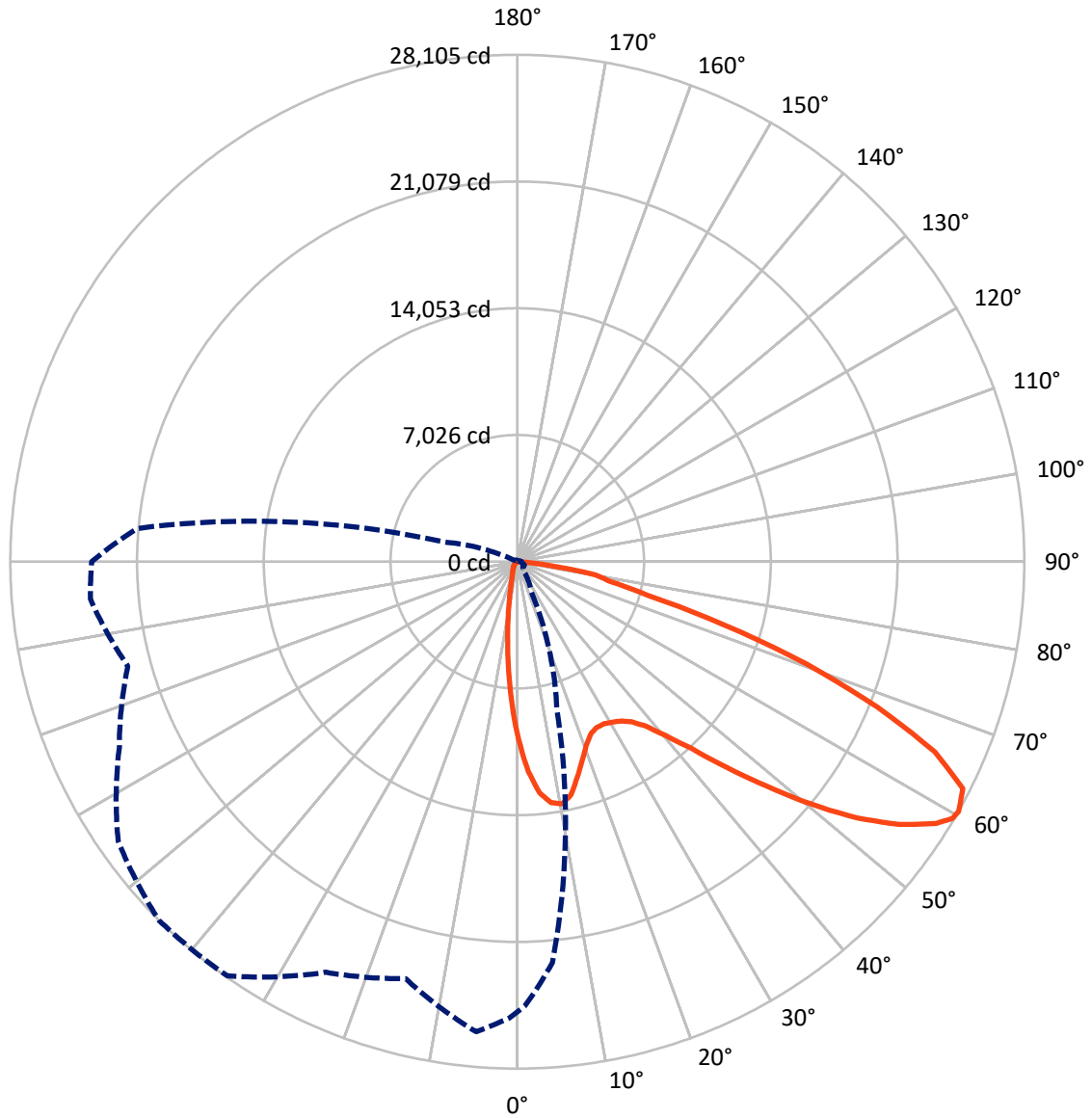
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc  
 Type IV - Short - N/A

REPORT NUMBER: P455366  
CATALOG NUMBER: GALN-SA6C-740-U-SLR-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P455366  
 CATALOG NUMBER: GALN-SA6C-740-U-SLR-HSS

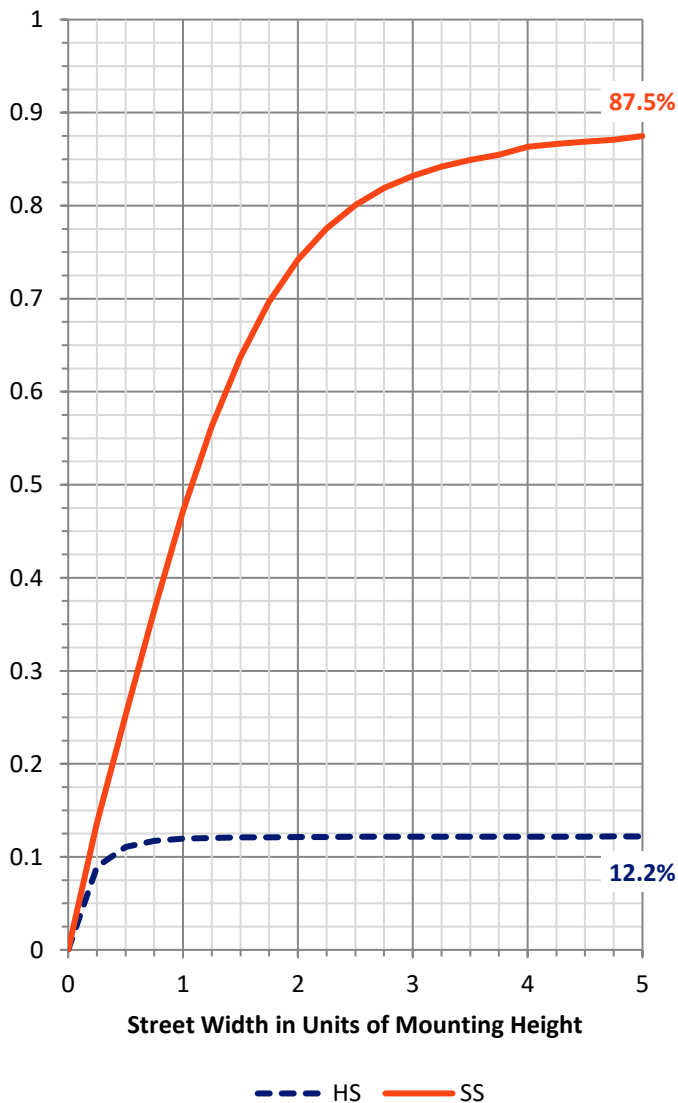
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3692.8	0.0	3692.8
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	26247.2	0.0	26247.2
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	29940.0	0.0	29940.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	736.0	2.5
10°-20°	1461.7	4.9
20°-30°	2143.3	7.2
30°-40°	3187.4	10.6
40°-50°	4638.6	15.5
50°-60°	6689.3	22.3
60°-70°	7357.5	24.6
70°-80°	3295.6	11.0
80°-90°	430.6	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°	29940.0	100.0
0°-180°	29940.0	100.0



REPORT NUMBER: P455366

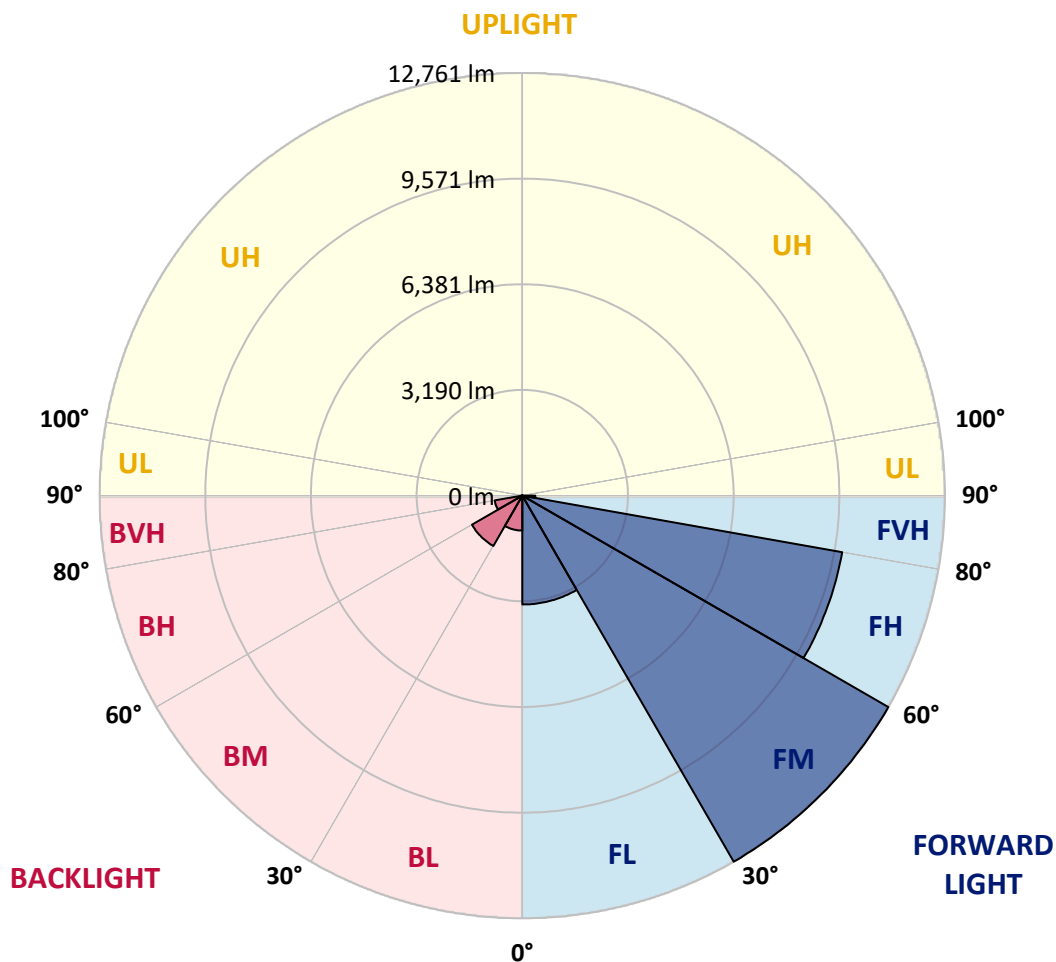
CATALOG NUMBER: GALN-SA6C-740-U-SLR-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3285.8	11.0			
FM	(30°-60°)	12761.3	42.6			
FH	(60°-80°)	9806.2	32.8			G4/12000
FVH	(80°-90°)	393.8	1.3			G3/500
BL	(0°-30°)	1055.2	3.5	B3/2500		
BM	(30°-60°)	1754.0	5.9	B2/2500		
BH	(60°-80°)	846.9	2.8	B2/1000		G2/1000
BVH	(80°-90°)	36.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





REPORT NUMBER: P455366

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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9895.6	9895.6	9895.6	9895.6	9895.6	9895.6	9895.6	9895.6	9895.6	9895.6	9895.6
2.5°	10878.8	10831.0	10721.7	10389.5	10100.4	9722.6	9340.3	9039.9	8855.5	8516.4	8361.6
5°	10539.7	10562.4	10246.1	9563.3	8803.2	8284.3	7717.6	7266.9	6770.8	6456.7	6126.7
7.5°	9654.4	9608.8	9265.2	8313.8	7389.8	6638.8	5921.9	5339.3	4972.8	4679.2	4433.4
10°	8896.5	8862.3	8423.1	7198.7	6206.4	5644.2	5159.5	4649.7	4255.9	3825.8	3482.1
12.5°	8420.8	8343.4	7838.2	6559.1	5751.2	5227.7	4699.7	4169.4	3625.5	3190.8	2774.3
15°	8261.5	8150.0	7587.8	6338.4	5459.9	4795.3	4133.0	3523.1	2897.2	2417.0	2102.9
17.5°	8550.5	8366.2	7767.6	6299.7	5111.7	4230.9	3416.1	2621.8	1970.9	1604.5	1411.1
20°	9212.8	9001.2	8222.8	6261.0	4724.8	3598.2	2596.8	1852.6	1363.3	1163.0	1056.0
22.5°	10196.0	9904.7	8896.5	6322.4	4367.4	2981.4	1875.3	1308.6	1083.3	958.2	883.0
25°	11377.2	11133.7	9749.9	6540.9	4085.2	2496.7	1449.7	1069.7	912.6	835.3	778.4
27.5°	12672.2	12283.0	10853.8	6802.7	3828.1	2121.1	1272.2	955.9	812.5	741.9	712.4
30°	13593.9	13291.2	11777.8	6984.7	3507.2	1838.9	1163.0	942.2	814.8	730.6	675.9
32.5°	14504.3	14117.4	12551.6	7068.9	3272.7	1643.2	1005.9	821.6	714.6	671.4	616.8
35°	15478.4	15073.3	13323.1	7023.4	3097.5	1513.5	912.6	732.8	612.2	539.4	484.8
37.5°	16463.8	16036.0	14090.1	6859.6	2988.3	1461.1	839.8	696.4	578.1	503.0	443.8
40°	17633.6	17062.4	14809.3	6725.3	2874.5	1433.8	792.0	673.7	553.0	473.4	414.2
42.5°	18589.5	18045.6	15489.8	6654.7	2797.1	1370.1	792.0	655.5	537.1	448.4	386.9
45°	19495.3	18930.9	16224.9	6711.6	2765.2	1290.4	801.1	653.2	525.7	430.1	368.7
47.5°	20253.2	19763.9	16980.5	6925.6	2724.2	1203.9	753.3	685.0	518.9	414.2	350.5
50°	21147.6	20674.2	17979.6	7358.0	2651.4	1117.5	694.1	737.4	516.6	400.6	334.6
52.5°	22408.5	21896.4	19358.8	7849.6	2535.3	985.5	639.5	730.6	507.5	377.8	318.6
55°	23949.3	23535.0	20956.5	8439.0	2376.0	837.5	553.0	648.6	480.2	339.1	291.3
57.5°	24937.0	24584.2	22153.6	8693.9	2132.5	685.0	487.0	543.9	439.2	302.7	259.5
59°	25053.1	24734.4	22403.9	8609.7	1973.2	625.9	455.2	466.6	427.9	282.2	241.2
60°	24955.2	24625.2	22303.8	8445.9	1825.3	584.9	427.9	414.2	430.1	270.8	227.6
62.5°	24327.1	23762.6	21332.0	7615.1	1595.4	537.1	380.1	339.1	380.1	243.5	202.6
65°	23114.0	22267.4	19408.8	6445.3	1504.4	509.8	323.2	284.5	289.0	213.9	175.2
67.5°	20995.1	19927.7	16848.5	5236.8	1465.7	512.1	273.1	254.9	223.0	182.1	154.8
70°	17645.0	16579.9	13518.8	4308.3	1447.5	512.1	232.1	218.5	186.6	152.5	134.3
72.5°	12503.8	11356.7	9119.5	3384.3	1304.1	509.8	198.0	198.0	152.5	127.5	109.2
75°	7064.4	7073.5	5733.0	2394.2	1083.3	421.0	159.3	157.0	111.5	97.9	81.9
77.5°	4117.1	4044.3	3864.5	1028.7	503.0	191.2	111.5	95.6	77.4	70.6	59.2
80°	2116.6	1741.1	1695.5	373.2	179.8	120.6	77.4	54.6	50.1	45.5	41.0
82.5°	625.9	628.1	559.9	150.2	100.1	79.7	38.7	29.6	27.3	25.0	25.0
85°	43.2	27.3	31.9	45.5	61.4	31.9	2.3	6.8	6.8	9.1	11.4
87.5°	4.6	2.3	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



REPORT NUMBER: P455366

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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9895.6	9895.6	9895.6	9895.6	9895.6	9895.6	9895.6	9895.6	9895.6	9895.6	9895.6
2.5°	8191.0	8291.1	8104.5	8109.0	7954.3	8004.3	7822.3	7881.4	7774.5	7856.4	8097.6
5°	6163.1	6185.9	6035.7	5987.9	6010.6	6104.0	6140.4	5974.2	6044.8	5906.0	5896.8
7.5°	4342.4	4369.7	4283.2	4271.9	4435.7	4397.0	4467.6	4296.9	4135.3	4205.9	4076.1
10°	3372.9	3259.1	3081.6	3031.5	2999.6	3020.1	3020.1	2865.4	2842.6	2781.1	2874.5
12.5°	2662.8	2524.0	2355.6	2128.0	2071.1	2066.5	1982.3	1845.8	1802.5	1750.2	1827.5
15°	1934.5	1877.6	1736.5	1609.1	1479.3	1454.3	1317.7	1206.2	1058.3	1037.8	1031.0
17.5°	1361.0	1276.8	1274.5	1201.7	1126.6	1076.5	949.0	821.6	764.7	757.9	757.9
20°	1019.6	990.0	942.2	933.1	910.4	853.5	739.7	671.4	644.1	646.4	655.5
22.5°	858.0	837.5	794.3	773.8	764.7	714.6	630.4	584.9	571.3	571.3	573.5
25°	767.0	748.8	701.0	669.1	657.7	621.3	555.3	521.2	509.8	509.8	509.8
27.5°	698.7	675.9	625.9	598.6	578.1	537.1	496.1	462.0	450.6	450.6	452.9
30°	650.9	625.9	580.4	543.9	512.1	475.7	441.5	411.9	398.3	396.0	398.3
32.5°	587.2	564.4	518.9	496.1	459.7	416.5	389.2	361.9	348.2	350.5	348.2
35°	457.5	450.6	418.8	425.6	405.1	368.7	343.7	314.1	298.1	295.9	300.4
37.5°	416.5	389.2	352.8	355.0	348.2	334.6	293.6	261.7	250.3	250.3	252.6
40°	384.6	357.3	316.3	295.9	298.1	298.1	254.9	220.8	209.4	207.1	211.7
42.5°	357.3	330.0	284.5	250.3	241.2	252.6	216.2	182.1	170.7	166.1	170.7
45°	339.1	309.5	257.2	218.5	191.2	204.8	177.5	150.2	136.6	136.6	134.3
47.5°	320.9	293.6	236.7	188.9	159.3	152.5	145.7	120.6	107.0	104.7	107.0
50°	305.0	277.7	213.9	163.9	134.3	118.3	118.3	95.6	86.5	81.9	84.2
52.5°	289.0	259.5	193.5	145.7	116.1	95.6	84.2	77.4	70.6	68.3	70.6
55°	266.3	236.7	173.0	125.2	100.1	79.7	66.0	63.7	59.2	54.6	59.2
57.5°	239.0	211.7	152.5	107.0	79.7	61.4	54.6	52.3	47.8	45.5	45.5
59°	223.0	198.0	141.1	93.3	70.6	54.6	50.1	47.8	43.2	38.7	41.0
60°	213.9	193.5	134.3	86.5	63.7	50.1	45.5	43.2	38.7	36.4	38.7
62.5°	188.9	173.0	118.3	70.6	50.1	36.4	31.9	34.1	31.9	29.6	31.9
65°	166.1	152.5	100.1	54.6	38.7	25.0	22.8	29.6	27.3	25.0	27.3
67.5°	147.9	132.0	84.2	41.0	27.3	13.7	15.9	25.0	25.0	22.8	25.0
70°	127.5	113.8	68.3	29.6	13.7	6.8	11.4	18.2	22.8	20.5	22.8
72.5°	104.7	88.8	52.3	20.5	6.8	0.0	6.8	15.9	22.8	20.5	22.8
75°	81.9	66.0	38.7	11.4	0.0	0.0	2.3	13.7	22.8	20.5	22.8
77.5°	59.2	47.8	22.8	2.3	0.0	0.0	2.3	13.7	22.8	20.5	22.8
80°	38.7	34.1	9.1	0.0	0.0	0.0	2.3	13.7	22.8	22.8	25.0
82.5°	25.0	18.2	0.0	0.0	0.0	0.0	4.6	18.2	25.0	27.3	27.3
85°	11.4	0.0	0.0	0.0	0.0	0.0	9.1	22.8	29.6	29.6	29.6
87.5°	0.0	0.0	0.0	0.0	0.0	4.6	15.9	27.3	34.1	34.1	34.1
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°	9895.6	9895.6	9895.6	9895.6	9895.6	9895.6	9895.6	9895.6	9895.6	9895.6	9895.6
2.5°	8138.6	8282.0	8484.5	8796.3	9049.0	9447.2	9752.2	10168.7	10589.7	10717.2	10915.2
5°	5990.2	6174.5	6634.2	7053.0	7317.0	8159.1	8691.6	9531.5	10284.8	10646.6	11040.4
7.5°	4160.3	4378.8	4729.3	5314.2	5869.5	6554.6	7414.9	8375.3	9479.1	9995.7	10551.1
10°	2920.0	3193.1	3687.0	4167.2	4865.9	5516.8	6365.7	7426.3	8643.9	9253.8	9950.2
12.5°	1843.5	2087.0	2740.2	3279.6	4151.2	4906.8	5689.7	6650.2	8061.2	8687.1	9417.7
15°	1053.7	1258.6	1563.5	2255.4	3222.7	4221.8	5198.1	6313.3	7763.1	8534.6	9324.3
17.5°	785.2	839.8	976.4	1367.8	2248.6	3416.1	4745.2	6210.9	7965.6	8871.4	9772.7
20°	660.0	696.4	760.1	914.9	1433.8	2630.9	4303.7	6229.1	8621.1	9759.0	10614.8
22.5°	591.7	614.5	666.8	767.0	978.6	1916.3	3787.1	6336.1	9415.4	10849.2	11836.9
25°	518.9	548.5	594.0	680.5	814.8	1329.1	3277.3	6575.1	10528.3	12232.9	13161.5
27.5°	462.0	489.3	534.8	614.5	714.6	1015.0	2683.3	6779.9	11702.7	13625.8	14385.9
30°	405.1	432.4	477.9	541.7	632.7	821.6	2043.8	6900.5	12842.9	14670.4	15255.3
32.5°	357.3	380.1	423.3	480.2	555.3	696.4	1611.3	6775.3	13714.6	15619.5	16010.9
35°	309.5	336.8	373.2	425.6	491.6	594.0	1340.5	6342.9	14463.3	16595.8	16736.9
37.5°	259.5	291.3	330.0	377.8	430.1	546.2	1076.5	5865.0	15264.4	17813.4	17581.3
40°	218.5	248.1	284.5	336.8	384.6	500.7	828.4	5355.2	16129.3	18955.9	18503.0
42.5°	177.5	209.4	252.6	300.4	380.1	437.0	641.8	4827.2	16905.4	19950.5	19336.0
45°	141.1	168.4	213.9	275.4	377.8	375.5	496.1	4306.0	17490.3	20660.6	19957.3
47.5°	111.5	134.3	179.8	268.6	348.2	318.6	398.3	3982.8	18104.8	21300.1	20433.0
50°	88.8	111.5	154.8	279.9	305.0	273.1	334.6	4035.2	18698.8	21625.6	20628.7
52.5°	75.1	97.9	134.3	220.8	234.4	239.0	293.6	4276.4	19465.7	21973.8	21017.9
55°	66.0	86.5	113.8	154.8	182.1	213.9	268.6	4451.7	20492.2	22720.3	21875.9
57.5°	52.3	75.1	102.4	132.0	150.2	186.6	248.1	4465.3	21420.7	23678.4	23016.1
59°	47.8	68.3	95.6	125.2	134.3	168.4	234.4	4349.2	21454.9	23821.8	23539.6
60°	43.2	66.0	91.0	116.1	127.5	159.3	223.0	4215.0	21145.4	23594.2	23755.8
62.5°	36.4	56.9	79.7	93.3	109.2	132.0	193.5	3727.9	19645.5	22563.2	23355.2
65°	31.9	50.1	68.3	77.4	91.0	113.8	170.7	2983.7	17988.7	21165.8	22208.2
67.5°	29.6	45.5	59.2	66.0	79.7	104.7	152.5	2107.5	15842.5	19392.9	20485.3
70°	27.3	43.2	52.3	61.4	70.6	88.8	129.7	1229.0	12203.4	16284.0	17437.9
72.5°	27.3	41.0	45.5	52.3	61.4	79.7	120.6	664.6	8343.4	12421.8	13912.6
75°	27.3	38.7	41.0	45.5	54.6	72.8	107.0	348.2	5393.9	8630.2	10651.2
77.5°	27.3	36.4	41.0	43.2	52.3	63.7	93.3	218.5	3593.6	6044.8	7198.7
80°	29.6	36.4	38.7	43.2	50.1	59.2	77.4	145.7	2112.0	3636.9	4381.1
82.5°	31.9	36.4	41.0	45.5	52.3	56.9	68.3	91.0	974.1	2405.6	2722.0
85°	34.1	38.7	43.2	47.8	54.6	56.9	63.7	66.0	159.3	1085.6	1468.0
87.5°	36.4	41.0	45.5	50.1	59.2	59.2	59.2	59.2	54.6	116.1	295.9
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: P455366

CATALOG NUMBER: GALN-SA6C-740-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9895.6	9895.6	9895.6	9895.6	9895.6	9895.6	9895.6	9895.6	9895.6	9895.6
2.5°	11165.5	11422.7	11602.5	11648.0	11518.3	11459.1	11295.3	11040.4	10885.6	10878.8
5°	11766.4	12369.5	12788.3	12858.8	12608.5	12185.1	11682.2	11033.5	10653.5	10539.7
7.5°	11664.0	12720.0	13393.7	13491.5	13070.5	12262.5	11288.4	10243.8	9829.6	9654.4
10°	11242.9	12531.1	13493.8	13648.6	13086.4	11948.5	10710.4	9545.1	9030.8	8896.5
12.5°	10883.3	12185.1	13040.9	13254.8	12829.2	11693.6	10364.4	9096.8	8546.0	8420.8
15°	10726.3	11775.5	12298.9	12408.2	12337.6	11534.2	10328.0	9028.5	8398.1	8261.5
17.5°	10883.3	11427.3	11493.3	11604.8	11761.8	11518.3	10678.5	9399.5	8719.0	8550.5
20°	11295.3	11124.6	10851.5	10899.3	11258.9	11584.3	11302.1	10221.1	9392.6	9212.8
22.5°	11996.3	11049.5	10430.4	10389.5	10844.6	11805.1	12217.0	11334.0	10373.5	10196.0
25°	12856.5	11238.4	10275.7	10186.9	10683.1	12128.3	13211.6	12697.2	11648.0	11377.2
27.5°	13794.2	11629.8	10275.7	10189.2	10669.4	12415.0	14062.8	13903.5	12968.1	12672.2
30°	14308.6	11953.0	10423.6	10325.7	10837.8	12581.2	14517.9	14975.4	13960.3	13593.9
32.5°	14768.3	12401.4	10712.6	10528.3	11190.6	12827.0	14925.3	15885.8	14750.1	14504.3
35°	15191.6	12881.6	11110.9	10897.0	11654.9	13163.8	15376.0	16841.6	15849.3	15478.4
37.5°	15658.2	13439.2	11732.2	11550.2	12430.9	13819.2	15910.8	18097.9	16930.4	16463.8
40°	16165.7	14085.5	12754.1	12676.7	13664.5	14561.2	16586.7	19438.4	18163.9	17633.6
42.5°	16682.3	14829.7	14005.9	14133.3	15061.9	15601.3	17280.9	20469.4	19174.4	18589.5
45°	17151.2	15781.1	15633.1	16263.6	16691.4	16616.3	17795.2	21195.4	20055.2	19495.3
47.5°	17742.9	17167.1	17601.8	18573.6	18585.0	17720.1	18184.4	21789.4	20813.1	20253.2
50°	18405.2	18803.5	20144.0	21134.0	20867.7	18805.7	18639.6	22492.7	21596.0	21147.6
52.5°	19172.2	20635.6	22492.7	23591.9	22970.6	19989.2	19397.5	23252.8	22838.6	22408.5
55°	20064.3	21885.0	24834.6	25710.8	25084.9	21459.4	20549.1	24283.8	24242.8	23949.3
57.5°	21072.5	23205.0	26191.0	27376.8	26819.2	23184.6	22158.1	25255.6	25100.9	24937.0
59°	21869.1	23883.3	26789.6	28018.6	27681.7	24393.1	23239.2	25861.0	25298.9	25053.1
60°	22351.6	24343.0	27010.3	28105.0	28027.7	25112.2	23924.2	26156.9	25296.6	24955.2
62.5°	23783.1	25146.4	26926.1	27720.4	28023.1	26491.4	25933.8	26482.3	24827.8	24327.1
65°	24292.9	24880.1	25531.0	25433.1	25692.6	26420.9	27217.4	26125.0	23826.4	23114.0
67.5°	23300.6	21960.1	22190.0	21536.8	21409.4	23489.5	26696.3	24377.1	21866.8	20995.1
70°	19641.0	16823.4	16707.4	17007.8	16183.9	19017.4	23972.0	21011.1	18632.8	17645.0
72.5°	15460.2	11889.3	10910.6	12016.7	11991.7	14508.8	19914.1	14909.4	12588.0	12503.8
75°	12157.8	8277.4	7264.7	7444.5	7790.4	10503.3	15860.7	9467.7	7751.7	7064.4
77.5°	8161.4	5865.0	5471.3	5250.5	5623.7	6743.5	10034.4	5134.4	4347.0	4117.1
80°	4704.3	4260.5	4838.6	4392.5	4592.8	4249.1	4991.0	2355.6	1955.0	2116.6
82.5°	3061.1	2426.1	2585.4	1920.9	2626.4	2649.1	1602.2	696.4	589.5	625.9
85°	1914.0	1137.9	639.5	455.2	905.8	1666.0	500.7	43.2	50.1	43.2
87.5°	496.1	188.9	79.7	118.3	145.7	129.7	116.1	6.8	2.3	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)