

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: P650695

Luminaire Tested: **GALN-SA1C-840-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650695  
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-SA1C-840-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4296.7 lumens  
Efficiency: N/A  
Efficacy: 75.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

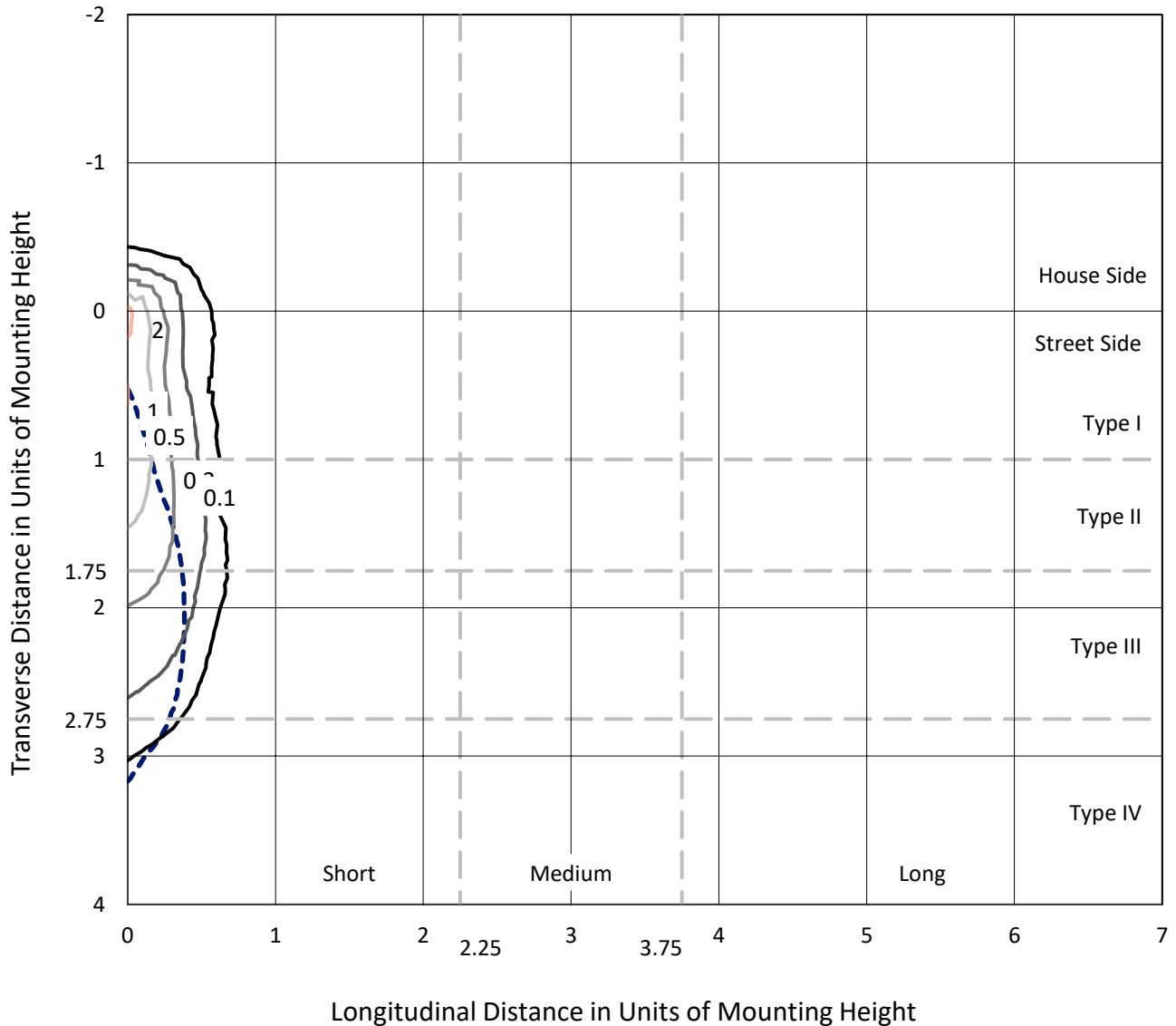
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P650695  
 CATALOG NUMBER: GALN-SA1C-840-U-SLR-HSS

### Iso-Footcandle Lines of Horizontal Illumination

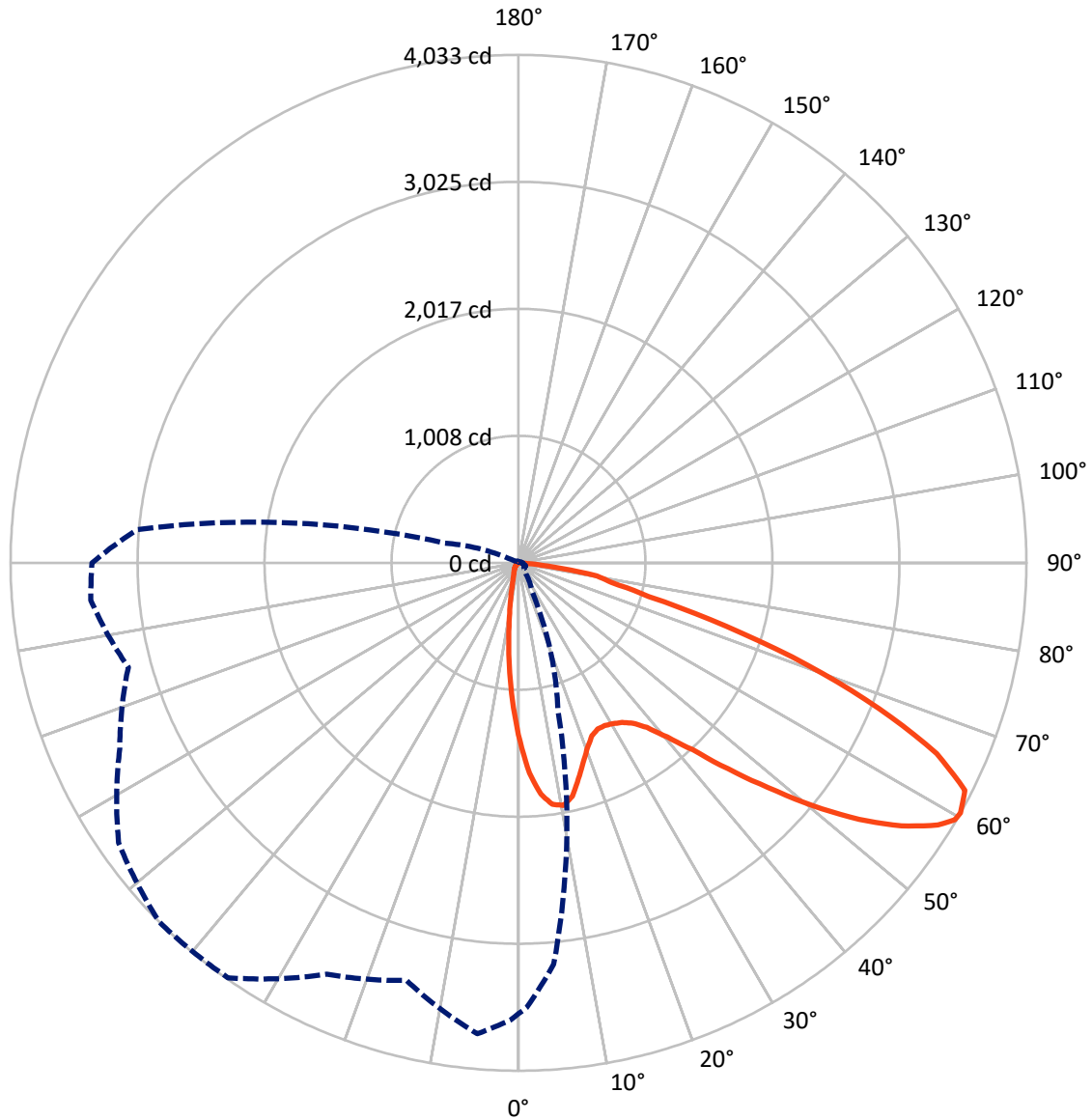
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type IV - Short - N/A

REPORT NUMBER: P650695  
CATALOG NUMBER: GALN-SA1C-840-U-SLR-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P650695  
 CATALOG NUMBER: GALN-SA1C-840-U-SLR-HSS

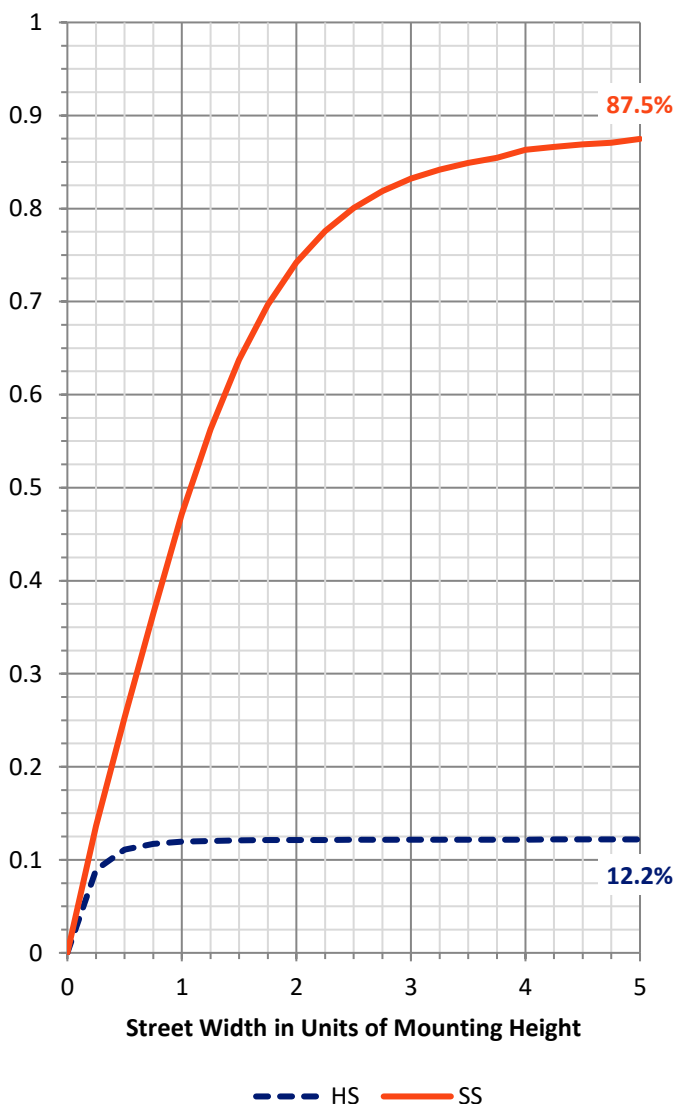
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	530.0	0.0	530.0
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	3766.7	0.0	3766.7
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	4296.7	0.0	4296.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.6	2.5
10°-20°	209.8	4.9
20°-30°	307.6	7.2
30°-40°	457.4	10.6
40°-50°	665.7	15.5
50°-60°	960.0	22.3
60°-70°	1055.9	24.6
70°-80°	472.9	11.0
80°-90°	61.8	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°	4296.7	100.0
0°-180°	4296.7	100.0

**Coefficient of Utilization**



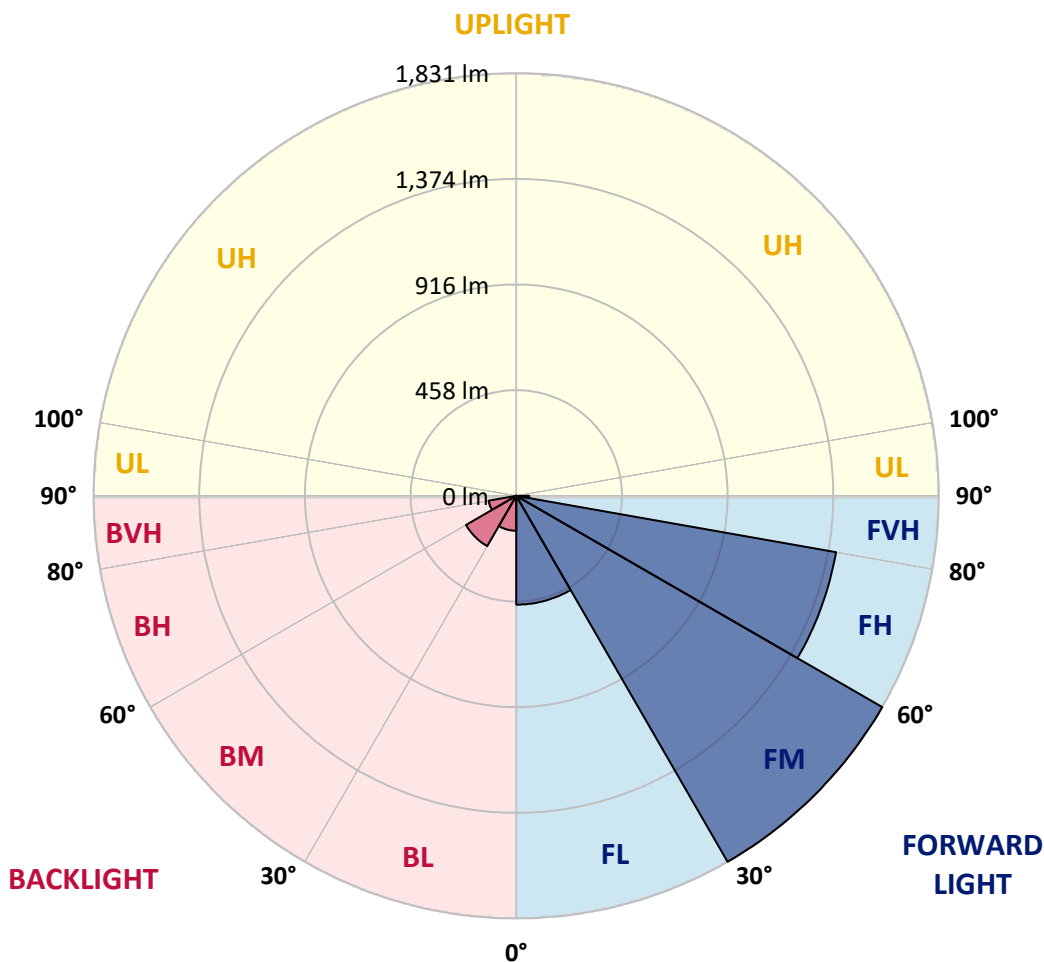
REPORT NUMBER: P650695  
 CATALOG NUMBER: GALN-SA1C-840-U-SLR-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	471.5	11.0			
FM (30°-60°)	1831.4	42.6			
FH (60°-80°)	1407.3	32.8			G1/1800
FVH (80°-90°)	56.5	1.3			G1/100
BL (0°-30°)	151.4	3.5	B1/500		
BM (30°-60°)	251.7	5.9	B1/1000		
BH (60°-80°)	121.5	2.8	B1/500		G1/500
BVH (80°-90°)	5.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Short





REPORT NUMBER: P650695

CATALOG NUMBER: GALN-SA1C-840-U-SLR-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1420.1	1420.1	1420.1	1420.1	1420.1	1420.1	1420.1	1420.1	1420.1	1420.1	1420.1
2.5°	1561.2	1554.3	1538.7	1491.0	1449.5	1395.3	1340.4	1297.3	1270.8	1222.2	1199.9
5°	1512.5	1515.8	1470.4	1372.4	1263.4	1188.8	1107.5	1042.8	971.7	926.6	879.3
7.5°	1385.5	1379.0	1329.6	1193.1	1060.5	952.8	849.8	766.2	713.7	671.5	636.2
10°	1276.7	1271.8	1208.8	1033.1	890.7	810.0	740.4	667.2	610.7	549.0	499.7
12.5°	1208.4	1197.3	1124.8	941.3	825.4	750.3	674.5	598.4	520.3	457.9	398.1
15°	1185.6	1169.6	1088.9	909.6	783.6	688.2	593.2	505.6	415.8	346.8	301.8
17.5°	1227.1	1200.6	1114.7	904.1	733.6	607.2	490.2	376.3	282.8	230.3	202.5
20°	1322.1	1291.8	1180.1	898.5	678.0	516.4	372.6	265.8	195.6	166.9	151.5
22.5°	1463.3	1421.5	1276.7	907.4	626.8	427.9	269.1	187.8	155.5	137.5	126.7
25°	1632.7	1597.8	1399.2	938.7	586.3	358.3	208.1	153.5	130.9	119.8	111.7
27.5°	1818.6	1762.7	1557.6	976.2	549.3	304.4	182.6	137.2	116.6	106.5	102.3
30°	1950.9	1907.4	1690.2	1002.4	503.3	263.9	166.9	135.2	116.9	104.9	97.0
32.5°	2081.5	2026.0	1801.3	1014.5	469.7	235.8	144.4	117.9	102.5	96.4	88.5
35°	2221.2	2163.1	1912.0	1007.9	444.6	217.2	130.9	105.2	87.9	77.4	69.6
37.5°	2362.7	2301.3	2022.0	984.4	428.8	209.7	120.5	99.9	82.9	72.2	63.7
40°	2530.6	2448.6	2125.3	965.1	412.5	205.8	113.6	96.7	79.4	68.0	59.5
42.5°	2667.7	2589.7	2222.9	955.0	401.4	196.6	113.6	94.0	77.1	64.3	55.5
45°	2797.8	2716.8	2328.4	963.2	396.9	185.2	115.0	93.8	75.4	61.7	52.9
47.5°	2906.5	2836.3	2436.9	993.9	391.0	172.7	108.1	98.3	74.4	59.5	50.3
50°	3034.9	2967.0	2580.3	1056.0	380.5	160.4	99.7	105.8	74.2	57.5	48.0
52.5°	3215.8	3142.3	2778.2	1126.5	363.8	141.5	91.8	104.9	72.8	54.2	45.8
55°	3436.9	3377.5	3007.4	1211.0	340.9	120.2	79.4	93.1	68.9	48.7	41.8
57.5°	3578.7	3528.1	3179.2	1247.6	306.0	98.3	69.9	78.0	63.1	43.5	37.3
59°	3595.4	3549.6	3215.1	1235.6	283.2	89.8	65.3	66.9	61.4	40.5	34.6
60°	3581.3	3534.0	3200.8	1212.0	262.0	83.9	61.4	59.5	61.7	38.9	32.6
62.5°	3491.2	3410.2	3061.3	1092.9	228.9	77.1	54.6	48.7	54.6	35.0	29.1
65°	3317.1	3195.5	2785.4	924.9	215.9	73.2	46.3	40.8	41.5	30.7	25.1
67.5°	3013.0	2859.8	2417.9	751.5	210.3	73.5	39.2	36.6	32.0	26.2	22.2
70°	2532.3	2379.4	1940.1	618.3	207.7	73.5	33.3	31.4	26.7	21.9	19.3
72.5°	1794.4	1629.8	1308.8	485.7	187.1	73.2	28.4	28.4	21.9	18.2	15.6
75°	1013.8	1015.1	822.8	343.6	155.5	60.4	22.9	22.5	16.0	14.0	11.8
77.5°	590.8	580.4	554.6	147.6	72.2	27.4	16.0	13.7	11.1	10.1	8.5
80°	303.8	249.9	243.3	53.6	25.8	17.3	11.1	7.8	7.1	6.6	5.9
82.5°	89.8	90.2	80.3	21.5	14.4	11.4	5.6	4.2	4.0	3.6	3.6
85°	6.2	4.0	4.5	6.6	8.8	4.5	0.3	1.0	1.0	1.3	1.6
87.5°	0.7	0.3	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: P650695  
 CATALOG NUMBER: GALN-SA1C-840-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1420.1	1420.1	1420.1	1420.1	1420.1	1420.1	1420.1	1420.1	1420.1	1420.1	1420.1
2.5°	1175.5	1189.8	1163.1	1163.7	1141.5	1148.7	1122.6	1131.1	1115.7	1127.4	1162.1
5°	884.5	887.8	866.1	859.3	862.6	876.0	881.2	857.3	867.5	847.6	846.2
7.5°	623.2	627.1	614.7	613.1	636.6	631.0	641.2	616.6	593.5	603.6	585.0
10°	484.1	467.7	442.2	435.0	430.5	433.5	433.5	411.2	408.0	399.1	412.5
12.5°	382.2	362.2	338.1	305.4	297.2	296.5	284.5	264.9	258.7	251.2	262.3
15°	277.6	269.5	249.2	230.9	212.3	208.7	189.1	173.1	151.9	148.9	147.9
17.5°	195.3	183.3	182.9	172.5	161.6	154.5	136.2	117.9	109.8	108.7	108.7
20°	146.3	142.0	135.2	133.9	130.6	122.4	106.1	96.4	92.4	92.8	94.0
22.5°	123.1	120.2	114.0	111.0	109.8	102.5	90.5	83.9	82.0	82.0	82.3
25°	110.1	107.5	100.6	96.0	94.4	89.1	79.7	74.8	73.2	73.2	73.2
27.5°	100.2	97.0	89.8	85.9	82.9	77.1	71.2	66.3	64.7	64.7	65.0
30°	93.4	89.8	83.3	78.0	73.5	68.3	63.3	59.1	57.2	56.9	57.2
32.5°	84.3	81.0	74.4	71.2	65.9	59.8	55.8	51.9	50.0	50.3	50.0
35°	65.7	64.7	60.1	61.1	58.1	52.9	49.3	45.1	42.8	42.5	43.1
37.5°	59.8	55.8	50.6	51.0	50.0	48.0	42.1	37.6	35.9	35.9	36.2
40°	55.2	51.3	45.4	42.5	42.8	42.8	36.6	31.7	30.0	29.7	30.4
42.5°	51.3	47.3	40.8	35.9	34.6	36.2	31.0	26.2	24.5	23.9	24.5
45°	48.7	44.4	36.9	31.4	27.4	29.4	25.5	21.5	19.6	19.6	19.3
47.5°	46.1	42.1	34.0	27.1	22.9	21.9	20.9	17.3	15.4	15.1	15.4
50°	43.7	39.9	30.7	23.5	19.3	17.0	17.0	13.7	12.4	11.8	12.1
52.5°	41.5	37.3	27.8	20.9	16.7	13.7	12.1	11.1	10.1	9.8	10.1
55°	38.2	34.0	24.8	18.0	14.4	11.4	9.5	9.2	8.5	7.8	8.5
57.5°	34.3	30.4	21.9	15.4	11.4	8.8	7.8	7.5	6.9	6.6	6.6
59°	32.0	28.4	20.3	13.4	10.1	7.8	7.1	6.9	6.2	5.6	5.9
60°	30.7	27.8	19.3	12.4	9.2	7.1	6.6	6.2	5.6	5.2	5.6
62.5°	27.1	24.8	17.0	10.1	7.1	5.2	4.5	4.9	4.5	4.2	4.5
65°	23.9	21.9	14.4	7.8	5.6	3.6	3.3	4.2	4.0	3.6	4.0
67.5°	21.2	18.9	12.1	5.9	4.0	1.9	2.3	3.6	3.6	3.3	3.6
70°	18.2	16.3	9.8	4.2	1.9	1.0	1.6	2.6	3.3	2.9	3.3
72.5°	15.1	12.7	7.5	2.9	1.0	0.0	1.0	2.3	3.3	2.9	3.3
75°	11.8	9.5	5.6	1.6	0.0	0.0	0.3	1.9	3.3	2.9	3.3
77.5°	8.5	6.9	3.3	0.3	0.0	0.0	0.3	1.9	3.3	2.9	3.3
80°	5.6	4.9	1.3	0.0	0.0	0.0	0.3	1.9	3.3	3.3	3.6
82.5°	3.6	2.6	0.0	0.0	0.0	0.0	0.7	2.6	3.6	4.0	4.0
85°	1.6	0.0	0.0	0.0	0.0	0.0	1.3	3.3	4.2	4.2	4.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.7	2.3	4.0	4.9	4.9	4.9
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: P650695  
 CATALOG NUMBER: GALN-SA1C-840-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1420.1	1420.1	1420.1	1420.1	1420.1	1420.1	1420.1	1420.1	1420.1	1420.1	1420.1
2.5°	1168.0	1188.5	1217.6	1262.3	1298.6	1355.8	1399.5	1459.3	1519.7	1538.0	1566.4
5°	859.7	886.1	952.1	1012.1	1050.1	1170.9	1247.4	1367.9	1476.0	1527.9	1584.4
7.5°	597.0	628.4	678.7	762.6	842.3	940.7	1064.1	1202.0	1360.3	1434.5	1514.1
10°	419.1	458.3	529.1	598.0	698.3	791.7	913.5	1065.7	1240.5	1328.0	1427.9
12.5°	264.6	299.5	393.3	470.6	595.8	704.2	816.5	954.4	1156.9	1246.7	1351.5
15°	151.2	180.6	224.4	323.7	462.5	605.9	746.0	906.0	1114.1	1224.8	1338.1
17.5°	112.7	120.5	140.1	196.3	322.7	490.2	681.0	891.3	1143.2	1273.1	1402.5
20°	94.7	99.9	109.1	131.3	205.8	377.5	617.6	893.9	1237.2	1400.5	1523.3
22.5°	84.9	88.2	95.7	110.1	140.4	275.0	543.5	909.3	1351.2	1556.9	1698.7
25°	74.4	78.7	85.3	97.6	116.9	190.7	470.3	943.6	1510.9	1755.5	1888.8
27.5°	66.3	70.2	76.8	88.2	102.5	145.7	385.1	973.0	1679.5	1955.4	2064.5
30°	58.1	62.1	68.6	77.7	90.8	117.9	293.3	990.3	1843.1	2105.4	2189.3
32.5°	51.3	54.6	60.7	68.9	79.7	99.9	231.3	972.4	1968.2	2241.5	2297.7
35°	44.4	48.4	53.6	61.1	70.6	85.3	192.3	910.3	2075.6	2381.6	2401.9
37.5°	37.3	41.8	47.3	54.2	61.7	78.4	154.5	841.7	2190.6	2556.4	2523.1
40°	31.4	35.6	40.8	48.4	55.2	71.8	118.9	768.5	2314.7	2720.4	2655.4
42.5°	25.5	30.0	36.2	43.1	54.6	62.7	92.1	692.7	2426.1	2863.1	2774.9
45°	20.3	24.1	30.7	39.5	54.2	53.9	71.2	618.0	2510.0	2964.9	2864.0
47.5°	16.0	19.3	25.8	38.5	50.0	45.8	57.2	571.5	2598.2	3056.8	2932.3
50°	12.7	16.0	22.2	40.2	43.7	39.2	48.0	579.1	2683.5	3103.5	2960.4
52.5°	10.8	14.0	19.3	31.7	33.6	34.3	42.1	613.7	2793.5	3153.4	3016.2
55°	9.5	12.4	16.3	22.2	26.2	30.7	38.5	638.8	2940.8	3260.6	3139.4
57.5°	7.5	10.8	14.7	18.9	21.5	26.7	35.6	640.8	3074.1	3398.1	3303.0
59°	6.9	9.8	13.7	18.0	19.3	24.1	33.6	624.2	3079.0	3418.7	3378.1
60°	6.2	9.5	13.0	16.7	18.2	22.9	32.0	604.8	3034.6	3386.0	3409.2
62.5°	5.2	8.2	11.4	13.4	15.6	18.9	27.8	535.0	2819.3	3238.0	3351.7
65°	4.5	7.1	9.8	11.1	13.0	16.3	24.5	428.2	2581.5	3037.5	3187.1
67.5°	4.2	6.6	8.5	9.5	11.4	15.1	21.9	302.4	2273.6	2783.0	2939.8
70°	4.0	6.2	7.5	8.8	10.1	12.7	18.6	176.4	1751.3	2336.9	2502.5
72.5°	4.0	5.9	6.6	7.5	8.8	11.4	17.3	95.4	1197.3	1782.7	1996.6
75°	4.0	5.6	5.9	6.6	7.8	10.4	15.4	50.0	774.1	1238.5	1528.5
77.5°	4.0	5.2	5.9	6.2	7.5	9.2	13.4	31.4	515.7	867.5	1033.1
80°	4.2	5.2	5.6	6.2	7.1	8.5	11.1	20.9	303.1	521.9	628.7
82.5°	4.5	5.2	5.9	6.6	7.5	8.2	9.8	13.0	139.8	345.2	390.6
85°	4.9	5.6	6.2	6.9	7.8	8.2	9.2	9.5	22.9	155.8	210.7
87.5°	5.2	5.9	6.6	7.1	8.5	8.5	8.5	8.5	7.8	16.7	42.5
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: P650695

CATALOG NUMBER: GALN-SA1C-840-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1420.1	1420.1	1420.1	1420.1	1420.1	1420.1	1420.1	1420.1	1420.1	1420.1
2.5°	1602.4	1639.3	1665.1	1671.6	1653.0	1644.5	1620.9	1584.4	1562.2	1561.2
5°	1688.6	1775.1	1835.2	1845.3	1809.4	1748.7	1676.5	1583.4	1528.9	1512.5
7.5°	1673.9	1825.5	1922.1	1936.2	1875.8	1759.8	1620.0	1470.1	1410.6	1385.5
10°	1613.5	1798.3	1936.5	1958.7	1878.0	1714.7	1537.0	1369.8	1296.0	1276.7
12.5°	1561.8	1748.7	1871.5	1902.2	1841.1	1678.1	1487.4	1305.5	1226.4	1208.4
15°	1539.3	1689.9	1765.0	1780.6	1770.6	1655.3	1482.2	1295.6	1205.2	1185.6
17.5°	1561.8	1640.0	1649.4	1665.4	1688.0	1653.0	1532.5	1348.9	1251.2	1227.1
20°	1620.9	1596.5	1557.3	1564.2	1615.7	1662.5	1622.0	1466.8	1348.0	1322.1
22.5°	1721.6	1585.7	1496.9	1491.0	1556.3	1694.1	1753.2	1626.5	1488.7	1463.3
25°	1845.1	1612.8	1474.7	1461.9	1533.1	1740.5	1896.0	1822.2	1671.6	1632.7
27.5°	1979.6	1669.0	1474.7	1462.2	1531.1	1781.7	2018.1	1995.3	1861.0	1818.6
30°	2053.4	1715.4	1495.9	1481.8	1555.3	1805.5	2083.5	2149.1	2003.4	1950.9
32.5°	2119.4	1779.7	1537.3	1510.9	1606.0	1840.8	2141.9	2279.8	2116.8	2081.5
35°	2180.1	1848.6	1594.5	1563.8	1672.6	1889.1	2206.6	2416.9	2274.6	2221.2
37.5°	2247.1	1928.7	1683.7	1657.5	1783.9	1983.2	2283.3	2597.3	2429.6	2362.7
40°	2319.9	2021.4	1830.4	1819.3	1961.0	2089.6	2380.4	2789.6	2606.7	2530.6
42.5°	2394.1	2128.2	2010.0	2028.2	2161.5	2238.9	2479.9	2937.5	2751.7	2667.7
45°	2461.4	2264.7	2243.5	2333.9	2395.3	2384.6	2553.8	3041.7	2878.1	2797.8
47.5°	2546.3	2463.6	2526.0	2665.5	2667.1	2543.0	2609.6	3127.0	2986.9	2906.5
50°	2641.3	2698.4	2890.9	3032.9	2994.7	2698.8	2675.0	3227.9	3099.3	3034.9
52.5°	2751.4	2961.4	3227.9	3385.7	3296.5	2868.7	2783.7	3337.0	3277.5	3215.8
55°	2879.4	3140.7	3564.0	3689.7	3599.9	3079.7	2949.0	3484.9	3479.0	3436.9
57.5°	3024.1	3330.1	3758.7	3928.8	3848.8	3327.2	3179.9	3624.5	3602.2	3578.7
59°	3138.4	3427.5	3844.5	4020.9	3972.5	3500.7	3335.1	3711.3	3630.6	3595.4
60°	3207.7	3493.4	3876.3	4033.4	4022.3	3603.9	3433.4	3753.7	3630.3	3581.3
62.5°	3413.1	3608.7	3864.1	3978.1	4021.6	3801.7	3721.8	3800.5	3563.0	3491.2
65°	3486.3	3570.5	3663.9	3649.9	3687.1	3791.6	3905.9	3749.2	3419.3	3317.1
67.5°	3343.8	3151.5	3184.4	3090.8	3072.4	3371.0	3831.2	3498.3	3138.1	3013.0
70°	2818.7	2414.3	2397.7	2440.8	2322.5	2729.2	3440.2	3015.3	2674.0	2532.3
72.5°	2218.6	1706.2	1565.8	1724.6	1720.9	2082.1	2857.9	2139.7	1806.5	1794.4
75°	1744.7	1187.9	1042.6	1068.3	1118.0	1507.3	2276.2	1358.7	1112.5	1013.8
77.5°	1171.3	841.7	785.2	753.5	807.0	967.7	1440.0	736.8	623.9	590.8
80°	675.1	611.4	694.4	630.3	659.1	609.8	716.3	338.1	280.6	303.8
82.5°	439.3	348.2	371.0	275.7	376.9	380.2	229.9	99.9	84.6	89.8
85°	274.7	163.3	91.8	65.3	130.0	239.1	71.8	6.2	7.1	6.2
87.5°	71.2	27.1	11.4	17.0	20.9	18.6	16.7	1.0	0.3	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)