

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: P650694

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650694  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-840-U-SLR-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4455.6 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

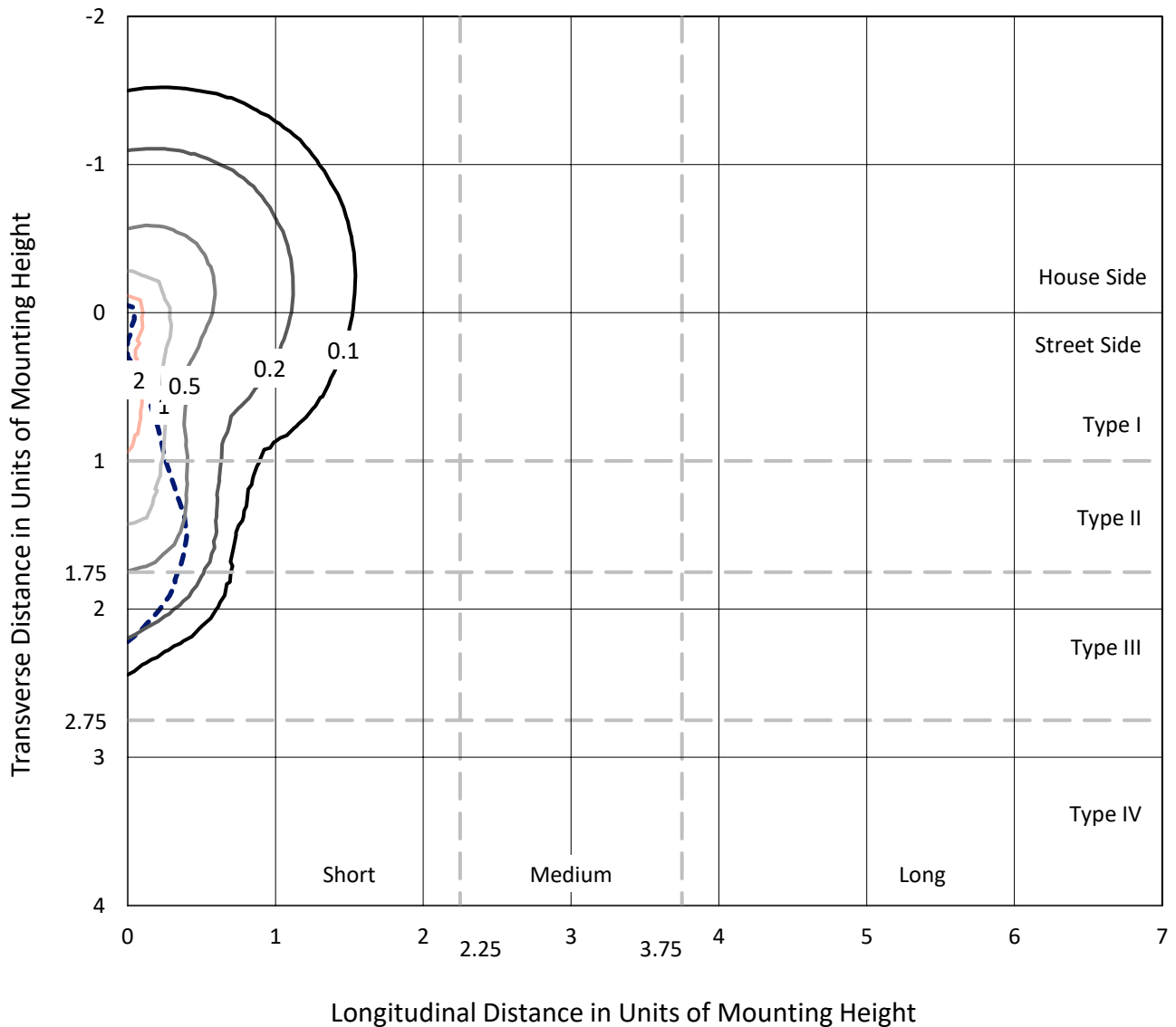
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P650694  
 CATALOG NUMBER: GALN-SA1C-840-U-SLR-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

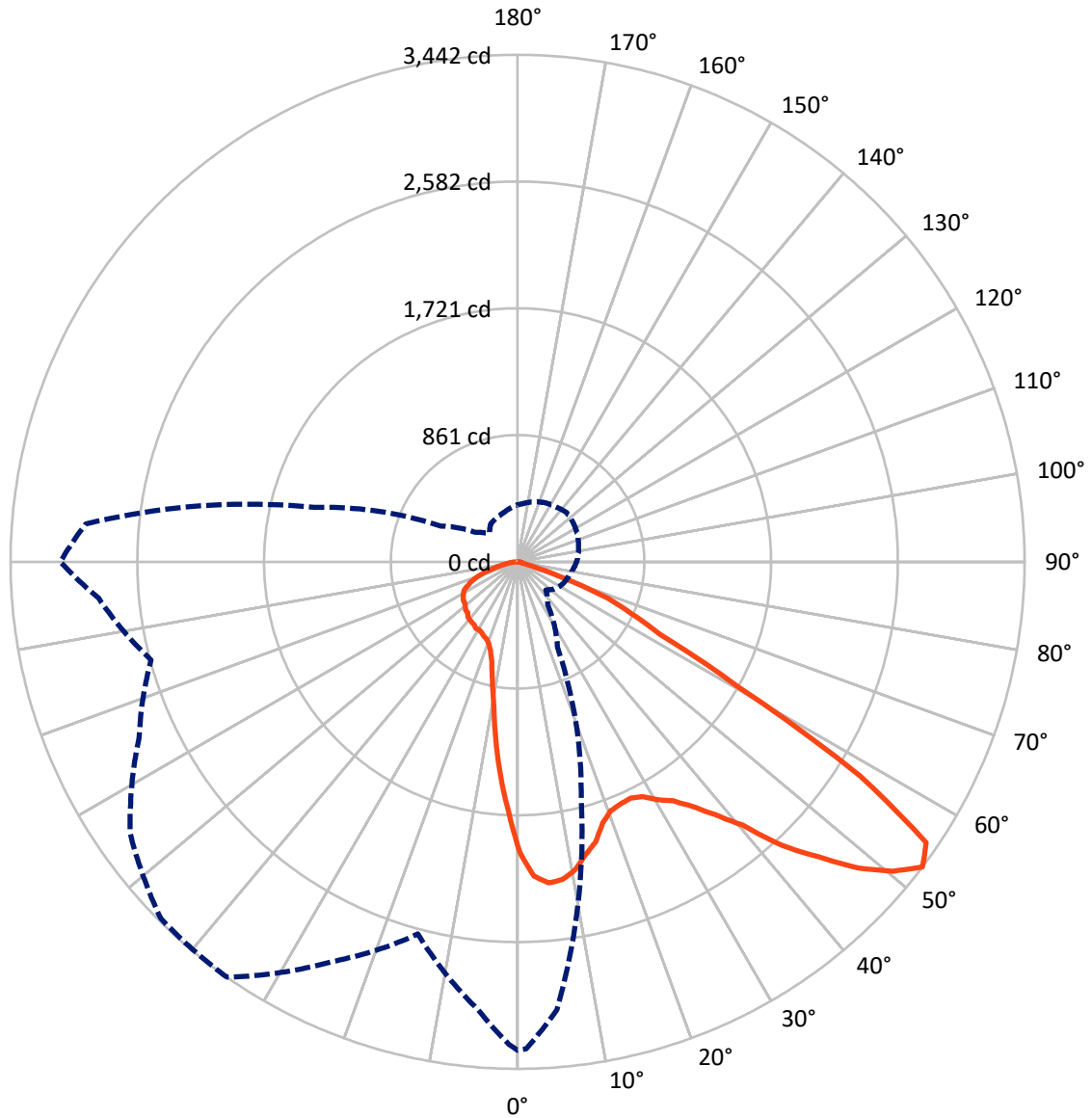
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type III - Short - N/A

REPORT NUMBER: P650694  
CATALOG NUMBER: GALN-SA1C-840-U-SLR-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

REPORT NUMBER: P650694  
 CATALOG NUMBER: GALN-SA1C-840-U-SLR-GRSWH

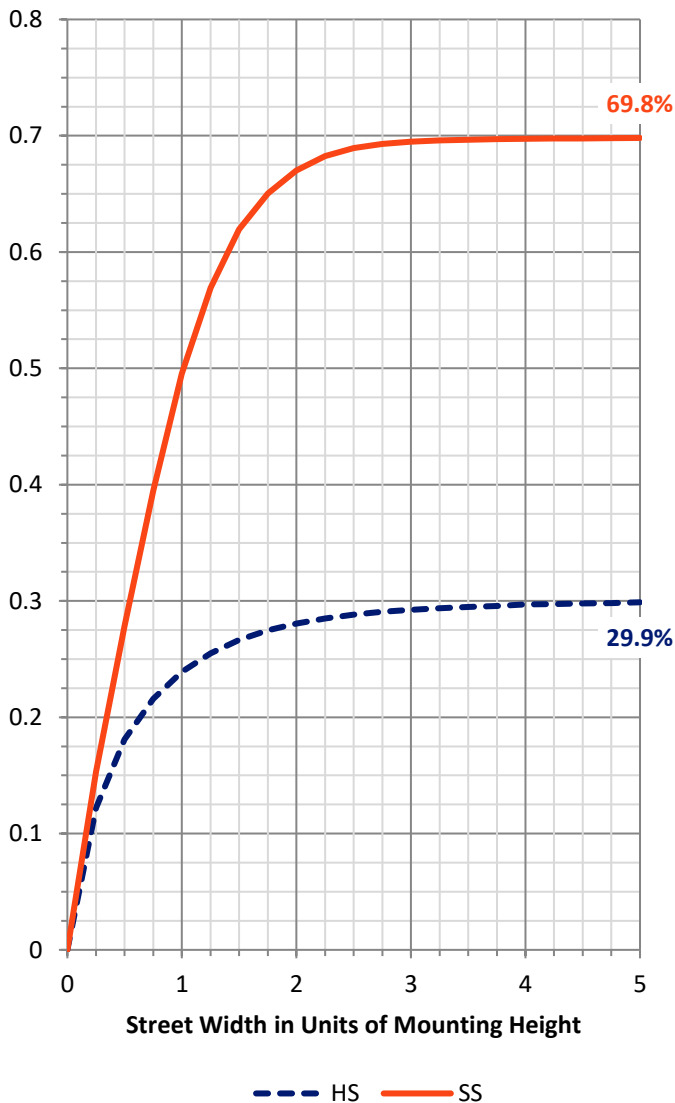
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1343.2	0.0	1343.2
	% Fixture	30.1	0.0	30.1
<b>Street Side</b>	Lumens	3112.4	0.0	3112.4
	% Fixture	69.9	0.0	69.9
<b>Total</b>	Lumens	4455.6	0.0	4455.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.9	3.4
10°-20°	327.0	7.3
20°-30°	494.1	11.1
30°-40°	714.0	16.0
40°-50°	950.3	21.3
50°-60°	1062.9	23.9
60°-70°	599.0	13.4
70°-80°	133.5	3.0
80°-90°	23.8	0.5
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°	4455.6	100.0
0°-180°	4455.6	100.0

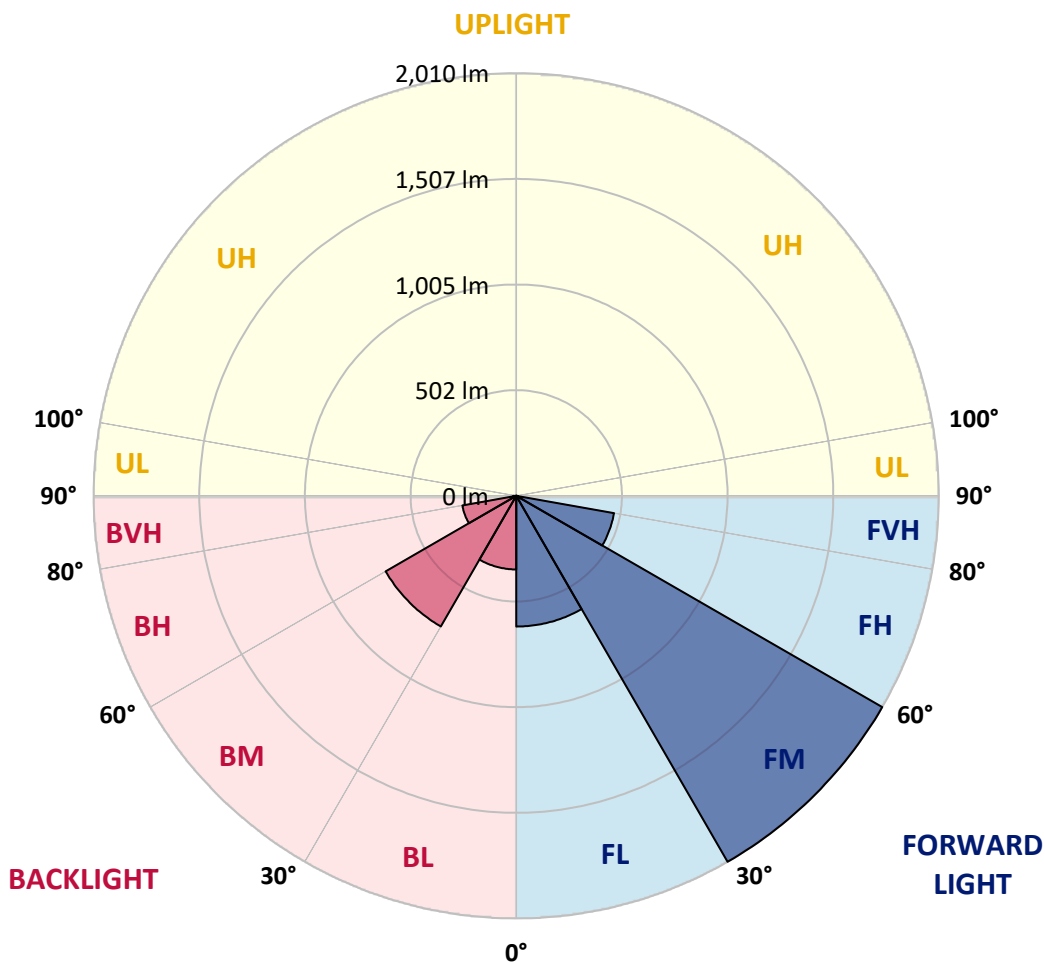


REPORT NUMBER: P650694  
 CATALOG NUMBER: GALN-SA1C-840-U-SLR-GRSWH

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	621.8	14.0			
FM	(30°-60°)	2009.8	45.1			
FH	(60°-80°)	472.2	10.6			G0/660
FVH	(80°-90°)	8.6	0.2			G0/10
BL	(0°-30°)	350.3	7.9	B1/500		
BM	(30°-60°)	717.4	16.1	B1/1000		
BH	(60°-80°)	260.4	5.8	B1/500		G1/500
BVH	(80°-90°)	15.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type III Short





REPORT NUMBER: P650694

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

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1977.4	1977.4	1977.4	1977.4	1977.4	1977.4	1977.4	1977.4	1977.4	1977.4	1977.4
2.5°	2010.3	2042.6	2007.8	1945.8	1901.8	1861.8	1819.8	1811.4	1756.6	1746.8	1706.8
5°	1896.0	1889.0	1846.3	1764.9	1675.2	1593.9	1533.7	1475.6	1436.3	1390.4	1387.1
7.5°	1757.2	1715.9	1691.3	1568.0	1456.9	1329.0	1274.2	1185.6	1157.9	1116.6	1095.2
10°	1633.2	1602.9	1545.4	1422.0	1267.1	1182.4	1123.7	1075.9	1043.6	1001.0	947.4
12.5°	1571.8	1559.6	1495.0	1303.9	1188.9	1098.5	1057.1	1010.7	955.8	887.3	860.8
15°	1582.8	1541.6	1492.4	1281.3	1122.4	1035.2	969.3	911.2	840.8	775.6	737.5
17.5°	1664.8	1633.2	1535.1	1295.5	1097.2	971.3	851.8	765.9	702.7	643.9	617.4
20°	1826.3	1780.5	1670.1	1313.6	1042.9	882.1	745.2	639.3	571.5	540.5	531.5
22.5°	2005.2	1978.1	1801.8	1354.3	999.7	799.5	632.3	526.3	501.2	492.7	509.6
25°	2222.8	2152.5	2006.5	1420.8	966.1	729.1	536.6	477.9	465.0	473.4	492.7
27.5°	2388.2	2369.4	2149.8	1483.4	920.2	644.5	483.1	444.3	448.2	456.6	474.7
30°	2584.5	2489.5	2288.7	1526.7	878.9	586.3	445.6	435.3	439.2	453.4	462.4
32.5°	2702.6	2667.1	2375.9	1591.9	831.2	536.1	416.5	406.9	412.7	434.0	455.3
35°	2853.1	2782.7	2483.7	1608.7	797.5	516.0	395.9	388.8	402.3	417.2	441.1
37.5°	3028.8	2980.3	2632.9	1597.1	779.4	495.3	378.4	375.2	384.9	405.5	433.4
40°	3132.7	3117.9	2711.0	1604.1	751.1	477.3	358.4	362.3	382.3	398.5	425.5
42.5°	3232.9	3136.0	2826.7	1601.6	733.0	452.7	360.4	355.8	371.3	390.1	415.9
45°	3254.8	3158.6	2853.8	1583.5	711.0	428.8	345.5	347.4	366.2	389.4	406.2
47.5°	3240.6	3169.6	2904.1	1578.3	690.4	412.0	323.5	346.8	357.8	376.5	400.4
50°	3231.0	3227.1	2946.8	1602.9	662.6	385.5	297.0	338.4	349.4	368.1	393.9
52.5°	3316.1	3307.7	3053.3	1667.5	640.6	357.1	270.0	317.1	343.5	361.6	386.9
55°	3367.9	3331.0	3236.1	1746.8	603.8	319.7	251.2	290.6	329.3	345.5	371.3
57.5°	3029.5	3004.2	2927.4	1630.6	541.9	270.5	228.0	263.5	310.0	335.1	361.6
60°	2520.6	2481.1	2284.2	1385.9	399.7	210.5	213.8	242.2	304.8	314.5	345.5
62.5°	2376.5	2279.0	2011.0	1115.3	306.7	180.8	191.8	222.8	277.7	293.8	324.8
65°	1885.7	1813.4	1438.9	805.3	205.4	156.9	175.0	200.8	239.6	271.2	299.6
67.5°	1180.5	1111.4	767.8	381.1	143.4	134.3	156.3	183.4	215.0	243.5	275.1
70°	616.7	541.2	354.6	137.6	98.8	109.8	130.4	156.3	187.3	210.5	235.1
72.5°	229.9	186.6	115.6	59.4	68.5	83.9	105.9	124.6	146.6	175.0	188.6
75°	35.5	30.4	29.7	36.2	46.5	60.7	75.5	94.3	113.6	131.7	140.8
77.5°	16.8	16.1	18.1	23.9	31.0	43.2	54.9	73.0	88.5	100.1	105.3
80°	11.0	10.3	11.6	16.1	23.2	32.3	43.9	56.2	70.4	80.1	78.8
82.5°	6.5	7.1	7.1	11.0	16.1	23.2	31.6	42.6	52.3	60.7	55.5
85°	3.9	3.2	3.2	6.5	11.0	18.8	26.5	18.1	18.8	18.8	21.3
87.5°	1.3	1.3	1.3	0.7	1.3	1.3	1.9	3.2	3.9	4.5	5.8
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: P650694

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

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1977.4	1977.4	1977.4	1977.4	1977.4	1977.4	1977.4	1977.4	1977.4	1977.4	1977.4
2.5°	1705.5	1725.6	1718.5	1693.3	1712.6	1715.9	1702.9	1747.5	1755.9	1742.4	1746.3
5°	1382.7	1387.8	1399.4	1424.0	1441.4	1462.1	1462.1	1463.3	1445.9	1489.8	1477.0
7.5°	1077.2	1080.4	1094.0	1146.3	1161.2	1200.5	1217.3	1205.7	1170.8	1156.0	1168.2
10°	930.0	911.2	906.7	913.2	946.7	963.5	977.7	973.9	968.1	956.4	943.5
12.5°	831.7	818.2	807.3	791.7	793.7	809.8	820.8	811.7	814.3	816.9	820.8
15°	725.2	715.5	709.7	686.5	683.9	694.9	698.8	703.9	713.6	714.3	709.7
17.5°	612.2	603.8	616.7	629.7	620.6	621.2	628.4	632.9	630.3	618.6	612.8
20°	534.7	543.8	556.7	568.9	578.6	584.4	587.0	580.0	571.5	547.7	547.0
22.5°	512.1	523.8	534.7	553.5	562.5	577.3	563.8	547.7	536.1	524.4	510.8
25°	495.3	505.0	527.0	534.0	551.5	563.8	554.1	538.0	517.9	501.2	490.8
27.5°	483.1	494.0	508.2	527.6	541.2	548.2	538.6	532.1	511.5	491.5	476.6
30°	475.3	486.9	512.8	528.9	540.5	546.3	529.6	521.8	507.0	490.1	477.3
32.5°	470.1	480.5	502.4	523.1	530.8	530.8	533.4	524.4	503.8	475.3	464.3
35°	453.4	467.6	485.7	509.6	523.8	532.1	519.2	508.9	495.3	466.3	446.2
37.5°	443.6	453.4	476.6	499.2	511.5	520.5	515.4	497.3	479.2	455.3	439.2
40°	433.4	448.8	469.5	490.8	504.3	513.4	509.6	488.2	466.3	443.6	432.7
42.5°	426.2	436.6	457.8	481.7	497.9	515.4	503.8	477.3	461.7	430.8	418.5
45°	420.4	437.2	459.8	469.5	486.3	504.3	483.7	467.6	449.5	426.9	416.5
47.5°	413.4	428.8	443.6	469.5	477.3	485.7	481.7	455.9	440.4	415.9	408.8
50°	410.7	416.5	443.6	457.8	468.9	477.3	466.9	447.5	432.7	407.5	392.0
52.5°	400.4	411.3	428.8	447.5	461.1	471.5	454.6	442.4	422.4	395.9	386.2
55°	387.4	393.9	425.0	444.3	451.4	458.5	452.0	432.0	411.3	384.3	374.6
57.5°	370.7	385.5	410.7	437.8	446.9	450.8	440.4	424.3	398.5	374.6	359.0
60°	353.2	368.8	396.5	418.5	427.5	441.7	426.2	416.5	386.9	360.4	343.5
62.5°	335.8	353.2	373.9	401.7	409.4	415.3	411.3	397.8	373.9	344.2	323.5
65°	315.1	328.1	353.9	368.1	373.2	386.9	373.2	368.1	346.8	318.4	300.9
67.5°	284.2	295.1	317.7	331.3	335.1	340.9	340.4	334.5	310.7	291.2	275.8
70°	248.6	258.4	272.6	288.6	290.6	297.7	291.2	290.0	274.5	248.0	239.6
72.5°	199.6	208.6	227.3	234.4	235.1	237.7	234.4	229.9	226.1	198.2	189.9
75°	153.1	158.2	167.3	173.8	173.8	176.9	175.0	170.5	160.1	142.7	134.3
77.5°	106.6	111.7	123.4	127.2	126.6	127.8	122.0	117.6	102.0	93.0	85.9
80°	77.5	80.7	86.5	89.1	89.7	91.7	84.6	80.7	71.7	61.3	58.1
82.5°	56.2	58.1	58.8	62.0	62.0	58.8	56.9	53.0	46.5	40.0	37.4
85°	23.2	23.9	24.6	28.4	29.1	34.9	32.3	30.4	26.5	22.6	20.7
87.5°	5.8	6.5	8.4	7.1	8.4	8.4	9.1	10.3	10.3	8.4	8.4
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: P650694

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

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1977.4	1977.4	1977.4	1977.4	1977.4	1977.4	1977.4	1977.4	1977.4	1977.4	1977.4
2.5°	1761.1	1766.3	1832.1	1840.5	1872.8	1905.7	1972.2	2020.1	2058.8	2084.0	2091.1
5°	1490.5	1523.5	1553.7	1602.9	1647.4	1710.7	1783.7	1874.1	1987.8	2045.9	2069.1
7.5°	1167.0	1205.7	1249.6	1297.4	1362.7	1476.3	1573.8	1678.5	1823.7	1883.8	1974.8
10°	952.5	995.8	1053.9	1090.8	1169.6	1278.1	1391.7	1512.5	1651.3	1737.8	1843.1
12.5°	842.1	877.7	931.2	1008.7	1067.5	1137.9	1222.5	1374.9	1573.8	1655.8	1728.2
15°	720.1	759.4	821.5	907.4	977.7	1061.7	1156.6	1322.6	1534.4	1661.0	1722.4
17.5°	619.3	647.7	713.0	787.3	867.9	959.7	1095.9	1320.0	1575.8	1737.8	1837.9
20°	549.6	553.5	589.0	652.3	762.0	881.5	1058.5	1307.1	1708.2	1870.2	1996.8
22.5°	505.7	501.8	502.4	556.1	632.9	804.7	999.7	1351.0	1858.6	2080.7	2166.0
25°	483.7	473.4	466.9	478.5	548.2	713.6	955.1	1409.1	2020.7	2254.5	2359.1
27.5°	472.1	454.0	441.1	443.0	494.0	667.8	927.4	1434.3	2181.5	2496.7	2533.4
30°	467.6	445.0	426.2	419.7	453.4	603.8	867.9	1477.6	2325.5	2629.7	2661.3
32.5°	451.4	423.6	405.5	399.7	413.4	547.7	825.4	1508.6	2452.8	2774.4	2763.4
35°	432.7	409.4	386.9	375.8	385.5	511.5	791.1	1493.7	2602.6	2886.7	2880.9
37.5°	430.8	400.4	381.6	363.6	363.0	466.9	744.6	1507.9	2698.2	3088.2	3008.8
40°	413.9	394.6	370.0	355.2	346.8	444.3	699.4	1474.4	2838.3	3169.6	3091.4
42.5°	414.6	385.5	364.2	346.8	338.4	411.3	668.4	1465.3	2887.3	3301.9	3130.2
45°	404.3	375.8	357.8	337.1	332.6	386.2	638.7	1423.3	2973.9	3308.4	3081.8
47.5°	393.9	368.8	349.4	324.8	314.5	377.1	615.4	1388.5	2928.7	3247.7	3014.6
50°	386.9	357.8	339.7	322.3	293.2	361.6	585.1	1380.1	2865.4	3165.7	2889.9
52.5°	374.6	348.8	330.0	316.5	270.0	347.4	573.5	1429.1	2942.9	3104.4	2853.8
55°	363.0	336.5	312.6	286.1	250.5	310.0	541.2	1475.0	3055.9	3245.8	3017.8
57.5°	350.7	325.5	299.6	268.0	231.9	271.2	507.6	1483.4	2844.1	2999.8	2864.8
60°	334.5	302.3	282.8	241.5	211.8	224.7	402.3	1307.8	2206.0	2505.1	2509.5
62.5°	316.5	281.6	264.7	216.3	191.2	193.8	328.1	1099.2	1789.5	2073.7	2197.0
65°	292.6	258.9	238.9	200.2	176.3	167.9	240.3	805.3	1359.4	1682.3	1822.4
67.5°	261.6	229.9	204.7	174.3	157.6	144.0	164.0	453.4	802.7	1129.5	1172.1
70°	228.6	201.5	175.0	149.9	131.1	121.4	120.1	200.8	383.6	607.7	691.6
72.5°	180.1	160.8	139.5	120.8	108.5	94.3	85.9	83.3	129.8	247.3	341.6
75°	129.2	113.0	100.8	88.5	79.5	71.7	65.3	59.4	54.2	62.0	85.3
77.5°	81.4	75.5	65.9	62.7	57.4	55.5	53.0	49.7	45.8	43.2	43.2
80°	54.9	51.0	47.8	47.2	45.2	44.6	45.2	42.0	38.1	34.9	36.2
82.5°	36.8	36.2	35.5	34.9	35.5	36.2	37.4	36.8	33.6	31.6	32.3
85°	22.0	23.2	24.6	25.8	28.4	25.1	20.7	17.4	15.5	14.2	13.5
87.5°	8.4	11.6	10.3	9.7	10.3	9.7	9.1	8.4	7.1	6.5	6.5
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: P650694

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

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1977.4	1977.4	1977.4	1977.4	1977.4	1977.4	1977.4	1977.4	1977.4	1977.4
2.5°	2138.2	2151.1	2162.1	2159.5	2137.0	2106.6	2094.3	2031.7	2018.7	2010.3
5°	2167.3	2242.2	2258.3	2248.7	2189.9	2115.6	2043.3	1951.6	1898.0	1896.0
7.5°	2113.7	2206.0	2235.1	2257.1	2178.9	2049.8	1925.8	1788.2	1754.7	1757.2
10°	1977.4	2124.7	2196.4	2219.0	2129.2	2017.5	1845.7	1706.2	1634.5	1633.2
12.5°	1901.8	2017.5	2037.5	2069.1	2042.6	1929.7	1799.2	1642.9	1573.2	1571.8
15°	1834.7	1910.9	1916.7	1961.3	1975.5	1899.3	1811.4	1644.8	1588.6	1582.8
17.5°	1893.5	1840.5	1818.6	1824.4	1866.3	1894.1	1882.5	1754.7	1697.1	1664.8
20°	1932.9	1814.7	1748.2	1754.7	1804.4	1905.7	1988.4	1913.5	1822.4	1826.3
22.5°	2038.2	1818.6	1714.6	1707.5	1786.3	1966.4	2107.9	2114.4	2026.5	2005.2
25°	2195.7	1863.2	1704.3	1702.4	1777.9	2031.7	2247.4	2352.0	2262.2	2222.8
27.5°	2322.3	1932.9	1736.6	1743.0	1804.4	2084.7	2366.2	2505.1	2436.6	2388.2
30°	2433.3	2005.2	1781.7	1752.1	1875.4	2112.4	2417.2	2679.4	2624.5	2584.5
32.5°	2479.2	2107.9	1853.4	1804.4	1934.1	2146.0	2523.2	2848.6	2801.5	2702.6
35°	2556.7	2165.3	1892.2	1888.3	2036.8	2226.7	2572.9	2960.3	2941.0	2853.1
37.5°	2618.7	2223.5	2029.8	1987.1	2177.6	2362.3	2652.9	3114.6	3070.2	3028.8
40°	2666.5	2327.5	2158.3	2214.4	2350.7	2485.7	2726.5	3124.4	3252.9	3132.7
42.5°	2622.6	2420.5	2369.4	2503.7	2632.9	2626.4	2734.9	3199.2	3295.5	3232.9
45°	2611.6	2578.0	2703.3	2825.3	2855.1	2743.3	2674.9	3116.6	3282.6	3254.8
47.5°	2585.1	2733.0	2951.3	3150.2	3105.0	2821.5	2603.2	3101.8	3290.3	3240.6
50°	2576.1	2766.6	3134.7	3328.4	3301.3	2889.3	2569.6	3006.2	3235.4	3231.0
52.5°	2575.5	2835.7	3210.9	3425.3	3442.1	2996.5	2615.5	3054.6	3278.0	3316.1
55°	2604.5	2813.7	3201.2	3371.7	3365.3	2948.7	2620.6	3086.9	3330.4	3367.9
57.5°	2456.6	2520.6	2641.9	2776.9	2742.1	2442.4	2340.3	2853.8	3056.5	3029.5
60°	2121.4	1921.3	1784.3	1777.9	1710.1	1616.4	1915.5	2547.1	2547.1	2520.6
62.5°	1857.9	1261.2	1083.6	1033.3	1081.7	1189.6	1847.6	2477.2	2406.9	2376.5
65°	1624.8	962.9	783.4	769.2	853.1	1015.8	1670.6	2110.5	1986.4	1885.7
67.5°	1045.5	705.2	582.5	557.3	658.7	745.9	1112.1	1298.1	1219.9	1180.5
70°	674.2	459.2	324.2	304.2	343.5	459.8	710.4	756.9	643.2	616.7
72.5°	319.0	198.2	113.6	93.6	105.3	175.7	280.9	302.3	251.2	229.9
75°	101.4	73.0	46.5	40.0	38.1	45.2	64.6	49.7	36.2	35.5
77.5°	45.2	43.2	36.8	31.0	27.2	22.6	18.8	15.5	16.1	16.8
80°	37.4	34.2	30.4	27.2	22.6	17.4	13.5	10.3	10.3	11.0
82.5°	33.0	29.7	26.5	22.6	19.3	14.2	10.3	7.1	6.5	6.5
85°	14.2	16.8	18.1	19.3	15.5	11.6	7.1	4.5	3.9	3.9
87.5°	5.8	5.1	4.5	3.9	3.2	3.2	2.6	1.9	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)