

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: P647230

Luminaire Tested: **GALN-SA1D-835-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647230  
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-SA1D-835-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 1200mA 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: 4401.2 lumens  
Efficiency: N/A  
Efficacy: 67.7 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

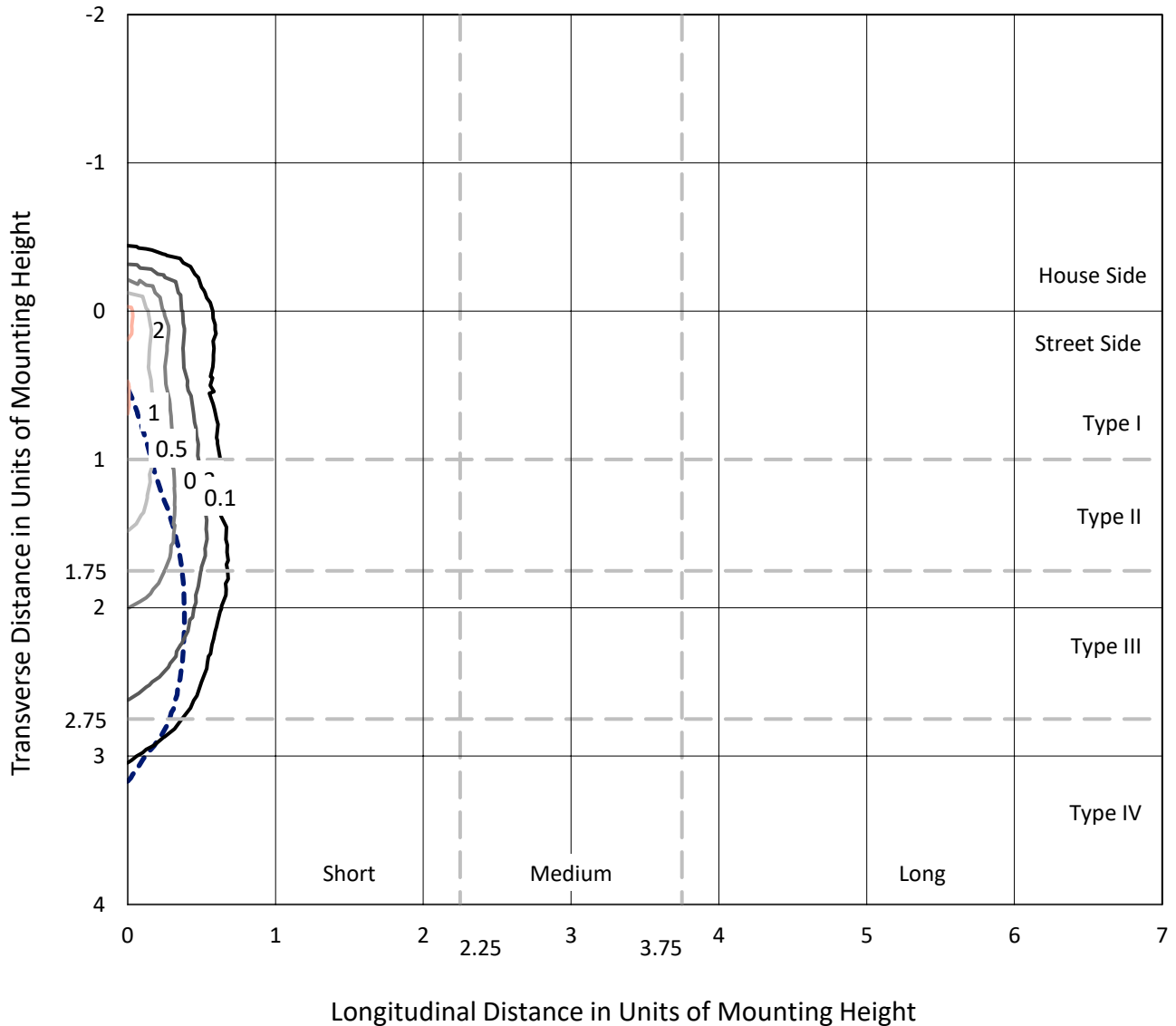
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P647230  
 CATALOG NUMBER: GALN-SA1D-835-U-SLR-HSS

### Iso-Footcandle Lines of Horizontal Illumination

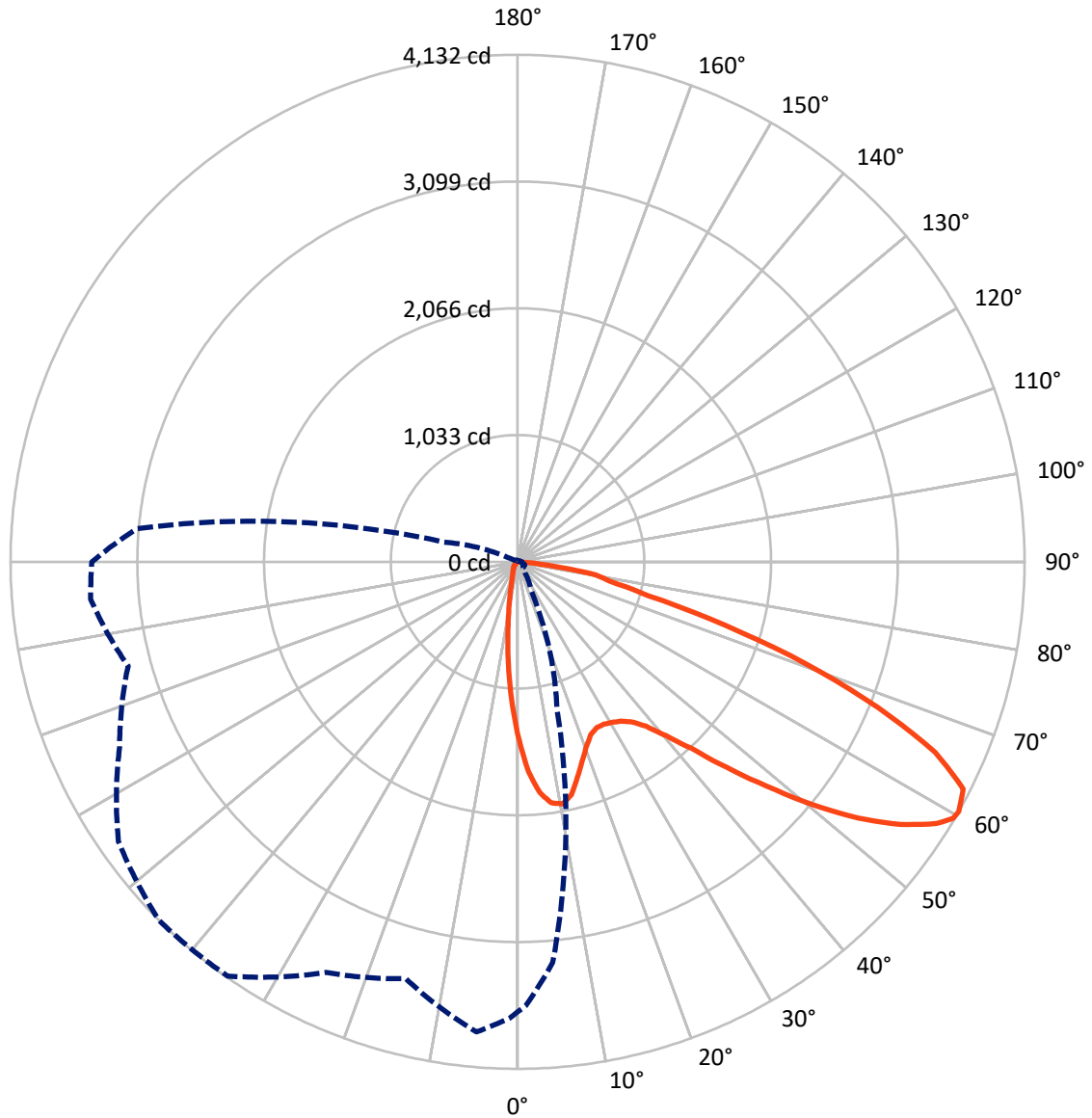
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P647230  
CATALOG NUMBER: GALN-SA1D-835-U-SLR-HSS

### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA1D-835-U-SLR-HSS

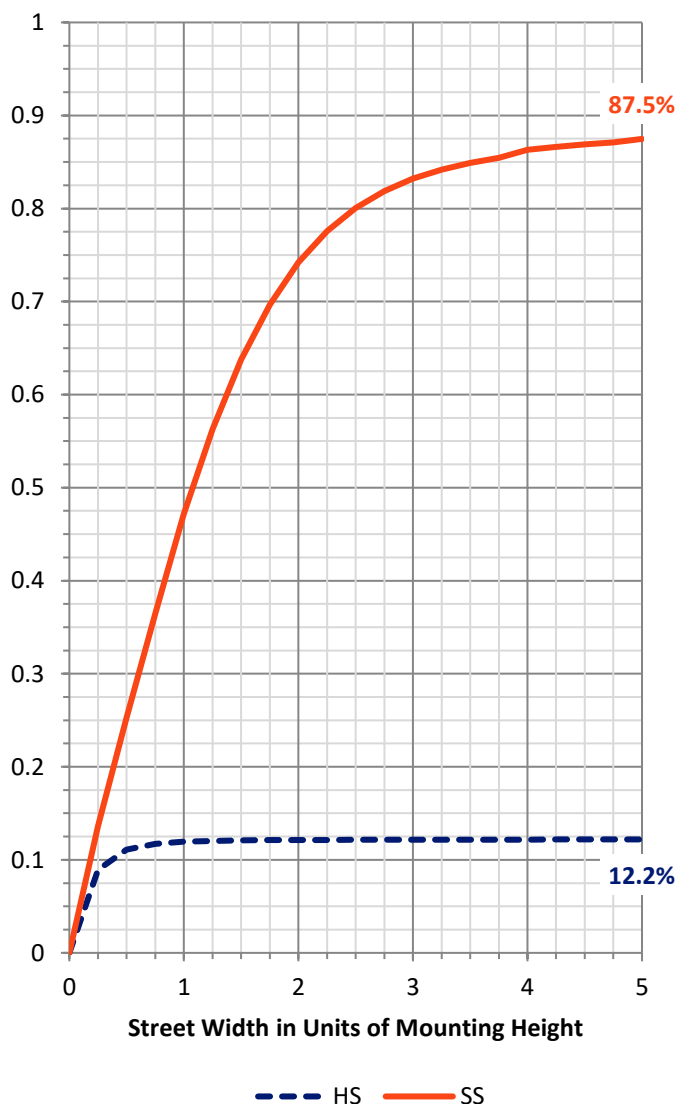
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	542.8	0.0	542.8
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	3858.4	0.0	3858.4
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	4401.2	0.0	4401.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.2	2.5
10°-20°	214.9	4.9
20°-30°	315.1	7.2
30°-40°	468.6	10.6
40°-50°	681.9	15.5
50°-60°	983.3	22.3
60°-70°	1081.6	24.6
70°-80°	484.5	11.0
80°-90°	63.3	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°	4401.2	100.0
0°-180°	4401.2	100.0

**Coefficient of Utilization**



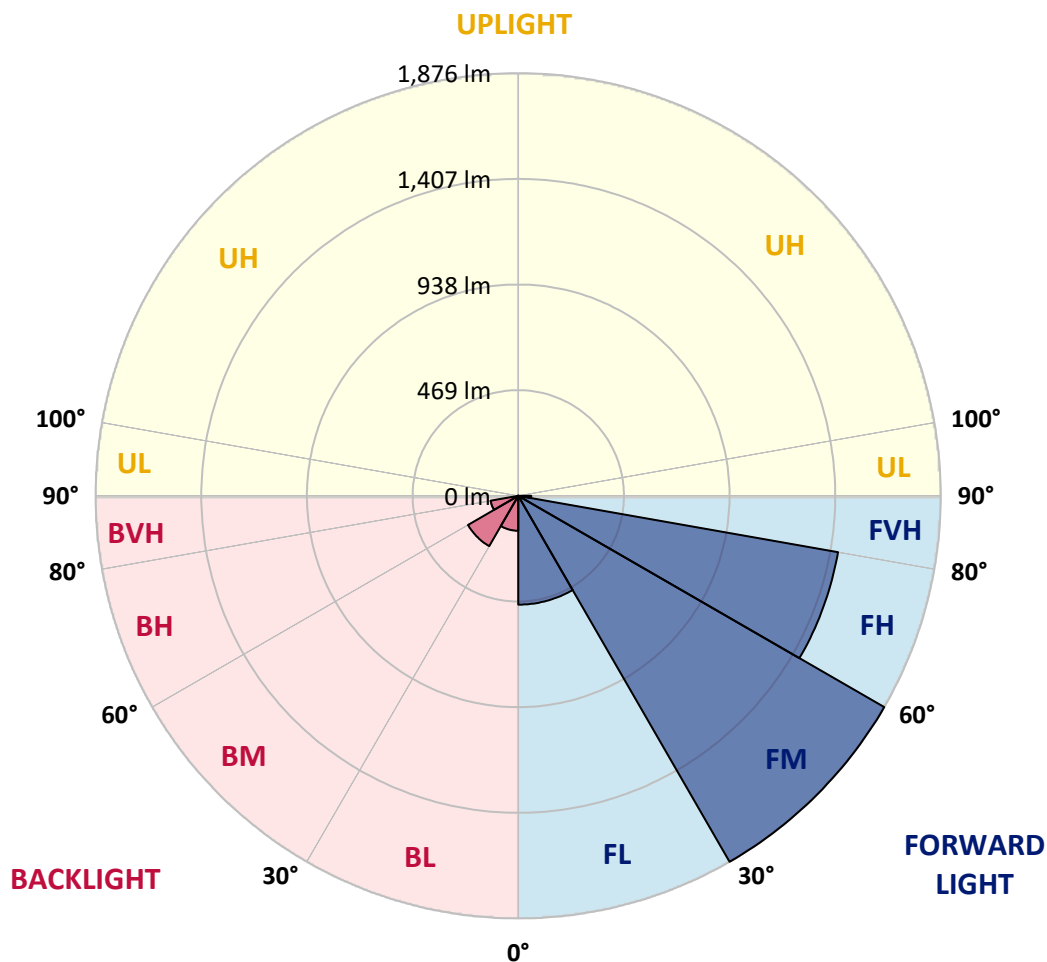
REPORT NUMBER: P647230  
 CATALOG NUMBER: GALN-SA1D-835-U-SLR-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	483.0	11.0			
FM (30°-60°)	1875.9	42.6			
FH (60°-80°)	1441.5	32.8			G1/1800
FVH (80°-90°)	57.9	1.3			G1/100
BL (0°-30°)	155.1	3.5	B1/500		
BM (30°-60°)	257.8	5.9	B1/1000		
BH (60°-80°)	124.5	2.8	B1/500		G1/500
BVH (80°-90°)	5.4	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: P647230

CATALOG NUMBER: GALN-SA1D-835-U-SLR-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1454.7	1454.7	1454.7	1454.7	1454.7	1454.7	1454.7	1454.7	1454.7	1454.7	1454.7
2.5°	1599.2	1592.2	1576.1	1527.2	1484.8	1429.2	1373.1	1328.9	1301.8	1251.9	1229.2
5°	1549.3	1552.7	1506.2	1405.8	1294.1	1217.8	1134.5	1068.2	995.3	949.2	900.6
7.5°	1419.2	1412.5	1362.0	1222.2	1086.3	975.9	870.5	784.9	731.0	687.9	651.7
10°	1307.8	1302.8	1238.2	1058.2	912.4	829.7	758.4	683.5	625.6	562.4	511.8
12.5°	1237.8	1226.5	1152.3	964.2	845.4	768.5	690.8	612.9	533.0	469.0	407.9
15°	1214.4	1198.1	1115.5	931.8	802.6	704.9	607.5	517.9	425.9	355.3	309.1
17.5°	1256.9	1229.9	1141.8	926.1	751.4	621.9	502.1	385.4	289.7	235.8	207.4
20°	1354.3	1323.2	1208.8	920.4	694.5	528.9	381.7	272.3	200.4	170.9	155.3
22.5°	1498.8	1456.0	1307.8	929.4	642.1	438.2	275.7	192.4	159.3	140.9	129.8
25°	1672.5	1636.7	1433.3	961.5	600.6	367.0	213.1	157.2	134.1	122.8	114.4
27.5°	1862.8	1805.6	1595.5	1000.0	562.7	311.8	187.1	140.5	119.4	109.1	104.7
30°	1998.4	1953.8	1731.4	1026.7	515.5	270.3	170.9	138.5	119.8	107.4	99.4
32.5°	2132.2	2075.3	1845.1	1039.1	481.1	241.6	147.9	120.7	105.1	98.7	90.7
35°	2275.3	2215.8	1958.5	1032.5	455.3	222.5	134.1	107.7	90.0	79.3	71.3
37.5°	2420.3	2357.3	2071.3	1008.3	439.3	214.8	123.5	102.3	85.0	73.9	65.2
40°	2592.2	2508.2	2177.0	988.6	422.6	210.8	116.4	99.0	81.3	69.6	60.9
42.5°	2732.7	2652.7	2277.0	978.3	411.2	201.4	116.4	96.4	78.9	65.9	56.8
45°	2865.9	2782.9	2385.1	986.7	406.5	189.7	117.8	96.0	77.3	63.3	54.2
47.5°	2977.3	2905.3	2496.1	1018.1	400.5	177.0	110.7	100.7	76.3	60.9	51.5
50°	3108.7	3039.1	2643.0	1081.6	389.8	164.3	102.0	108.4	76.0	58.9	49.2
52.5°	3294.1	3218.8	2845.8	1153.9	372.7	144.9	94.0	107.4	74.6	55.5	46.8
55°	3520.6	3459.7	3080.6	1240.6	349.3	123.1	81.3	95.4	70.6	49.9	42.8
57.5°	3665.8	3613.9	3256.7	1278.0	313.5	100.7	71.6	79.9	64.6	44.5	38.1
59°	3682.8	3636.0	3293.5	1265.6	290.1	92.0	66.9	68.6	62.9	41.5	35.5
60°	3668.4	3620.0	3278.7	1241.5	268.3	86.0	62.9	60.9	63.3	39.8	33.4
62.5°	3576.1	3493.1	3135.8	1119.5	234.5	78.9	55.9	49.9	55.9	35.8	29.8
65°	3397.8	3273.3	2853.2	947.5	221.1	74.9	47.5	41.8	42.5	31.5	25.8
67.5°	3086.4	2929.4	2476.8	769.8	215.5	75.2	40.2	37.5	32.8	26.8	22.8
70°	2593.8	2437.2	1987.3	633.3	212.8	75.2	34.1	32.1	27.4	22.4	19.7
72.5°	1838.1	1669.4	1340.6	497.5	191.7	74.9	29.1	29.1	22.4	18.7	16.1
75°	1038.5	1039.8	842.7	352.0	159.3	61.9	23.4	23.1	16.4	14.4	12.1
77.5°	605.3	594.5	568.1	151.2	73.9	28.1	16.4	14.0	11.4	10.3	8.7
80°	311.2	256.0	249.2	54.9	26.5	17.7	11.4	8.1	7.4	6.7	6.0
82.5°	92.0	92.3	82.3	22.1	14.7	11.7	5.7	4.4	4.0	3.7	3.7
85°	6.3	4.0	4.7	6.7	9.0	4.7	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: P647230

CATALOG NUMBER: GALN-SA1D-835-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1454.7	1454.7	1454.7	1454.7	1454.7	1454.7	1454.7	1454.7	1454.7	1454.7	1454.7
2.5°	1204.1	1218.8	1191.4	1192.0	1169.3	1176.6	1149.9	1158.6	1142.9	1154.9	1190.4
5°	906.0	909.4	887.3	880.2	883.6	897.3	902.6	878.2	888.6	868.2	866.9
7.5°	638.4	642.4	629.6	628.0	652.1	646.4	656.8	631.6	607.9	618.3	599.2
10°	495.8	479.1	453.0	445.6	441.0	444.0	444.0	421.2	417.9	408.8	422.6
12.5°	391.4	371.1	346.2	312.8	304.4	303.8	291.4	271.3	265.0	257.3	268.6
15°	284.4	276.0	255.3	236.5	217.4	213.8	193.7	177.3	155.6	152.5	151.6
17.5°	200.1	187.7	187.4	176.6	165.6	158.2	139.5	120.7	112.4	111.4	111.4
20°	149.9	145.6	138.5	137.2	133.8	125.4	108.8	98.7	94.7	95.0	96.4
22.5°	126.1	123.1	116.7	113.8	112.4	105.1	92.7	86.0	83.9	83.9	84.3
25°	112.8	110.1	103.0	98.3	96.7	91.3	81.7	76.6	74.9	74.9	74.9
27.5°	102.7	99.4	92.0	88.0	85.0	78.9	72.9	67.9	66.2	66.2	66.6
30°	95.7	92.0	85.3	79.9	75.2	69.9	64.9	60.5	58.6	58.2	58.6
32.5°	86.3	83.0	76.3	72.9	67.6	61.2	57.2	53.2	51.2	51.5	51.2
35°	67.3	66.2	61.5	62.6	59.6	54.2	50.5	46.2	43.8	43.5	44.2
37.5°	61.2	57.2	51.8	52.2	51.2	49.2	43.1	38.4	36.8	36.8	37.1
40°	56.5	52.5	46.5	43.5	43.8	43.8	37.5	32.4	30.8	30.5	31.1
42.5°	52.5	48.5	41.8	36.8	35.5	37.1	31.8	26.8	25.1	24.4	25.1
45°	49.9	45.5	37.8	32.1	28.1	30.1	26.1	22.1	20.0	20.0	19.7
47.5°	47.1	43.1	34.8	27.8	23.4	22.4	21.4	17.7	15.7	15.4	15.7
50°	44.9	40.8	31.5	24.1	19.7	17.4	17.4	14.0	12.7	12.1	12.4
52.5°	42.5	38.1	28.4	21.4	17.1	14.0	12.4	11.4	10.3	10.0	10.3
55°	39.2	34.8	25.4	18.4	14.7	11.7	9.7	9.4	8.7	8.1	8.7
57.5°	35.2	31.1	22.4	15.7	11.7	9.0	8.1	7.7	7.0	6.7	6.7
59°	32.8	29.1	20.7	13.7	10.3	8.1	7.4	7.0	6.3	5.7	6.0
60°	31.5	28.4	19.7	12.7	9.4	7.4	6.7	6.3	5.7	5.3	5.7
62.5°	27.8	25.4	17.4	10.3	7.4	5.3	4.7	5.0	4.7	4.4	4.7
65°	24.4	22.4	14.7	8.1	5.7	3.7	3.4	4.4	4.0	3.7	4.0
67.5°	21.8	19.4	12.4	6.0	4.0	2.0	2.3	3.7	3.7	3.4	3.7
70°	18.7	16.8	10.0	4.4	2.0	1.0	1.6	2.7	3.4	3.0	3.4
72.5°	15.4	13.1	7.7	3.0	1.0	0.0	1.0	2.3	3.4	3.0	3.4
75°	12.1	9.7	5.7	1.6	0.0	0.0	0.3	2.0	3.4	3.0	3.4
77.5°	8.7	7.0	3.4	0.3	0.0	0.0	0.3	2.0	3.4	3.0	3.4
80°	5.7	5.0	1.3	0.0	0.0	0.0	0.3	2.0	3.4	3.4	3.7
82.5°	3.7	2.7	0.0	0.0	0.0	0.0	0.7	2.7	3.7	4.0	4.0
85°	1.6	0.0	0.0	0.0	0.0	0.0	1.3	3.4	4.4	4.4	4.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.3	4.0	5.0	5.0
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: P647230  
 CATALOG NUMBER: GALN-SA1D-835-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1454.7	1454.7	1454.7	1454.7	1454.7	1454.7	1454.7	1454.7	1454.7	1454.7	1454.7
2.5°	1196.4	1217.5	1247.2	1293.0	1330.2	1388.7	1433.6	1494.8	1556.7	1575.5	1604.5
5°	880.6	907.7	975.2	1036.8	1075.6	1199.4	1277.7	1401.2	1511.9	1565.1	1622.9
7.5°	611.6	643.7	695.2	781.2	862.9	963.6	1090.0	1231.2	1393.4	1469.4	1551.0
10°	429.2	469.4	542.0	612.6	715.3	811.0	935.8	1091.7	1270.7	1360.3	1462.7
12.5°	271.0	306.8	402.8	482.1	610.3	721.3	836.4	977.6	1185.0	1277.0	1384.4
15°	154.9	185.0	229.8	331.5	473.7	620.6	764.1	928.1	1141.2	1254.6	1370.7
17.5°	115.4	123.5	143.5	201.1	330.6	502.1	697.6	913.1	1171.0	1304.1	1436.6
20°	97.0	102.3	111.7	134.5	210.8	386.7	632.7	915.7	1267.3	1434.6	1560.4
22.5°	87.0	90.4	98.0	112.8	143.8	281.7	556.7	931.5	1384.1	1594.9	1740.1
25°	76.3	80.6	87.3	100.1	119.8	195.4	481.8	966.5	1547.7	1798.2	1934.8
27.5°	67.9	72.0	78.6	90.4	105.1	149.2	394.5	996.7	1720.3	2003.0	2114.7
30°	59.6	63.6	70.2	79.6	93.0	120.7	300.4	1014.4	1888.0	2156.6	2242.6
32.5°	52.5	55.9	62.2	70.6	81.7	102.3	236.9	996.0	2016.1	2296.1	2353.6
35°	45.5	49.5	54.9	62.6	72.3	87.3	197.1	932.4	2126.2	2439.6	2460.3
37.5°	38.1	42.8	48.5	55.5	63.3	80.3	158.2	862.2	2243.9	2618.6	2584.5
40°	32.1	36.5	41.8	49.5	56.5	73.6	121.8	787.2	2371.0	2786.5	2720.0
42.5°	26.1	30.8	37.1	44.2	55.9	64.2	94.4	709.6	2485.1	2932.8	2842.4
45°	20.7	24.7	31.5	40.5	55.5	55.2	72.9	633.0	2571.1	3037.2	2933.7
47.5°	16.4	19.7	26.5	39.5	51.2	46.8	58.6	585.4	2661.4	3131.1	3003.7
50°	13.1	16.4	22.8	41.2	44.9	40.2	49.2	593.2	2748.7	3179.0	3032.5
52.5°	11.0	14.4	19.7	32.4	34.5	35.2	43.1	628.7	2861.5	3230.2	3089.6
55°	9.7	12.7	16.8	22.8	26.8	31.5	39.5	654.4	3012.4	3340.0	3215.8
57.5°	7.7	11.0	15.0	19.4	22.1	27.4	36.5	656.4	3148.9	3480.7	3383.4
59°	7.0	10.0	14.0	18.4	19.7	24.7	34.5	639.3	3153.9	3501.9	3460.4
60°	6.3	9.7	13.4	17.1	18.7	23.4	32.8	619.6	3108.4	3468.4	3492.2
62.5°	5.3	8.4	11.7	13.7	16.1	19.4	28.4	548.0	2887.9	3316.9	3433.3
65°	4.7	7.4	10.0	11.4	13.4	16.8	25.1	438.6	2644.3	3111.4	3264.6
67.5°	4.4	6.7	8.7	9.7	11.7	15.4	22.4	309.8	2328.9	2850.8	3011.4
70°	4.0	6.3	7.7	9.0	10.3	13.1	19.1	180.6	1793.9	2393.8	2563.4
72.5°	4.0	6.0	6.7	7.7	9.0	11.7	17.7	97.7	1226.5	1826.0	2045.2
75°	4.0	5.7	6.0	6.7	8.1	10.7	15.7	51.2	792.9	1268.7	1565.8
77.5°	4.0	5.3	6.0	6.3	7.7	9.4	13.7	32.1	528.3	888.6	1058.2
80°	4.4	5.3	5.7	6.3	7.4	8.7	11.4	21.4	310.5	534.6	644.0
82.5°	4.7	5.3	6.0	6.7	7.7	8.4	10.0	13.4	143.2	353.6	400.1
85°	5.0	5.7	6.3	7.0	8.1	8.4	9.4	9.7	23.4	159.6	215.8
87.5°	5.3	6.0	6.7	7.4	8.7	8.7	8.7	8.7	8.1	17.1	43.5
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: P647230  
 CATALOG NUMBER: GALN-SA1D-835-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1454.7	1454.7	1454.7	1454.7	1454.7	1454.7	1454.7	1454.7	1454.7	1454.7
2.5°	1641.3	1679.1	1705.6	1712.3	1693.2	1684.5	1660.4	1622.9	1600.2	1599.2
5°	1729.6	1818.4	1879.9	1890.2	1853.4	1791.3	1717.3	1622.0	1566.1	1549.3
7.5°	1714.6	1869.9	1968.9	1983.3	1921.4	1802.6	1659.4	1505.9	1444.9	1419.2
10°	1652.8	1842.1	1983.7	2006.4	1923.8	1756.4	1574.5	1403.1	1327.6	1307.8
12.5°	1599.9	1791.3	1917.0	1948.5	1885.9	1719.0	1523.6	1337.2	1256.2	1237.8
15°	1576.8	1731.1	1807.9	1824.0	1813.7	1695.6	1518.2	1327.2	1234.6	1214.4
17.5°	1599.9	1679.8	1689.6	1705.9	1729.0	1693.2	1569.8	1381.8	1281.7	1256.9
20°	1660.4	1635.4	1595.2	1602.3	1655.1	1702.9	1661.4	1502.5	1380.7	1354.3
22.5°	1763.5	1624.3	1533.3	1527.2	1594.2	1735.4	1795.9	1666.1	1524.9	1498.8
25°	1889.9	1652.1	1510.6	1497.5	1570.5	1782.9	1942.2	1866.5	1712.3	1672.5
27.5°	2027.8	1709.6	1510.6	1497.8	1568.4	1825.0	2067.3	2043.9	1906.4	1862.8
30°	2103.4	1757.1	1532.3	1517.9	1593.2	1849.4	2134.1	2201.4	2052.2	1998.4
32.5°	2170.9	1823.1	1574.8	1547.7	1645.0	1885.6	2194.0	2335.2	2168.3	2132.2
35°	2233.2	1893.6	1633.3	1601.9	1713.3	1935.1	2260.3	2475.8	2329.9	2275.3
37.5°	2301.8	1975.6	1724.6	1697.9	1827.4	2031.5	2338.9	2660.4	2488.8	2420.3
40°	2376.4	2070.6	1874.9	1863.5	2008.7	2140.5	2438.3	2857.5	2670.1	2592.2
42.5°	2452.4	2180.0	2058.9	2077.6	2214.2	2293.4	2540.3	3009.1	2818.6	2732.7
45°	2521.3	2319.9	2298.1	2390.8	2453.7	2442.6	2615.9	3115.8	2948.2	2865.9
47.5°	2608.3	2523.6	2587.5	2730.3	2732.0	2604.9	2673.2	3203.1	3059.6	2977.3
50°	2705.6	2764.1	2961.2	3106.7	3067.6	2764.5	2740.0	3306.5	3174.7	3108.7
52.5°	2818.3	3033.5	3306.5	3468.1	3376.8	2938.4	2851.5	3418.2	3357.3	3294.1
55°	2949.5	3217.1	3650.7	3779.5	3687.5	3154.6	3020.7	3569.8	3563.7	3520.6
57.5°	3097.7	3411.2	3850.2	4024.5	3942.5	3408.2	3257.3	3712.6	3689.9	3665.8
59°	3214.8	3510.9	3938.1	4118.8	4069.3	3585.8	3416.2	3801.6	3719.0	3682.8
60°	3285.7	3578.5	3970.6	4131.5	4120.1	3691.5	3516.9	3845.1	3718.6	3668.4
62.5°	3496.2	3696.5	3958.2	4075.0	4119.4	3894.3	3812.3	3892.9	3649.7	3576.1
65°	3571.1	3657.4	3753.1	3738.7	3776.9	3883.9	4001.1	3840.5	3502.5	3397.8
67.5°	3425.2	3228.2	3262.0	3166.0	3147.2	3453.0	3924.4	3583.5	3214.4	3086.4
70°	2887.2	2473.1	2456.0	2500.2	2379.1	2795.6	3524.0	3088.7	2739.1	2593.8
72.5°	2272.7	1747.7	1603.9	1766.4	1762.8	2132.8	2927.4	2191.7	1850.5	1838.1
75°	1787.2	1216.8	1067.9	1094.3	1145.2	1544.0	2331.5	1391.8	1139.5	1038.5
77.5°	1199.7	862.2	804.3	771.8	826.7	991.3	1475.1	754.7	639.0	605.3
80°	691.5	626.3	711.3	645.7	675.2	624.6	733.7	346.2	287.4	311.2
82.5°	450.0	356.7	380.1	282.3	386.1	389.5	235.5	102.3	86.7	92.0
85°	281.3	167.2	94.0	66.9	133.2	244.9	73.6	6.3	7.4	6.3
87.5°	72.9	27.8	11.7	17.4	21.4	19.1	17.1	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)