

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: P647226

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647226  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)  
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-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR LEFT 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 III - Short  
BUG Rating: B1 - U0 - G1

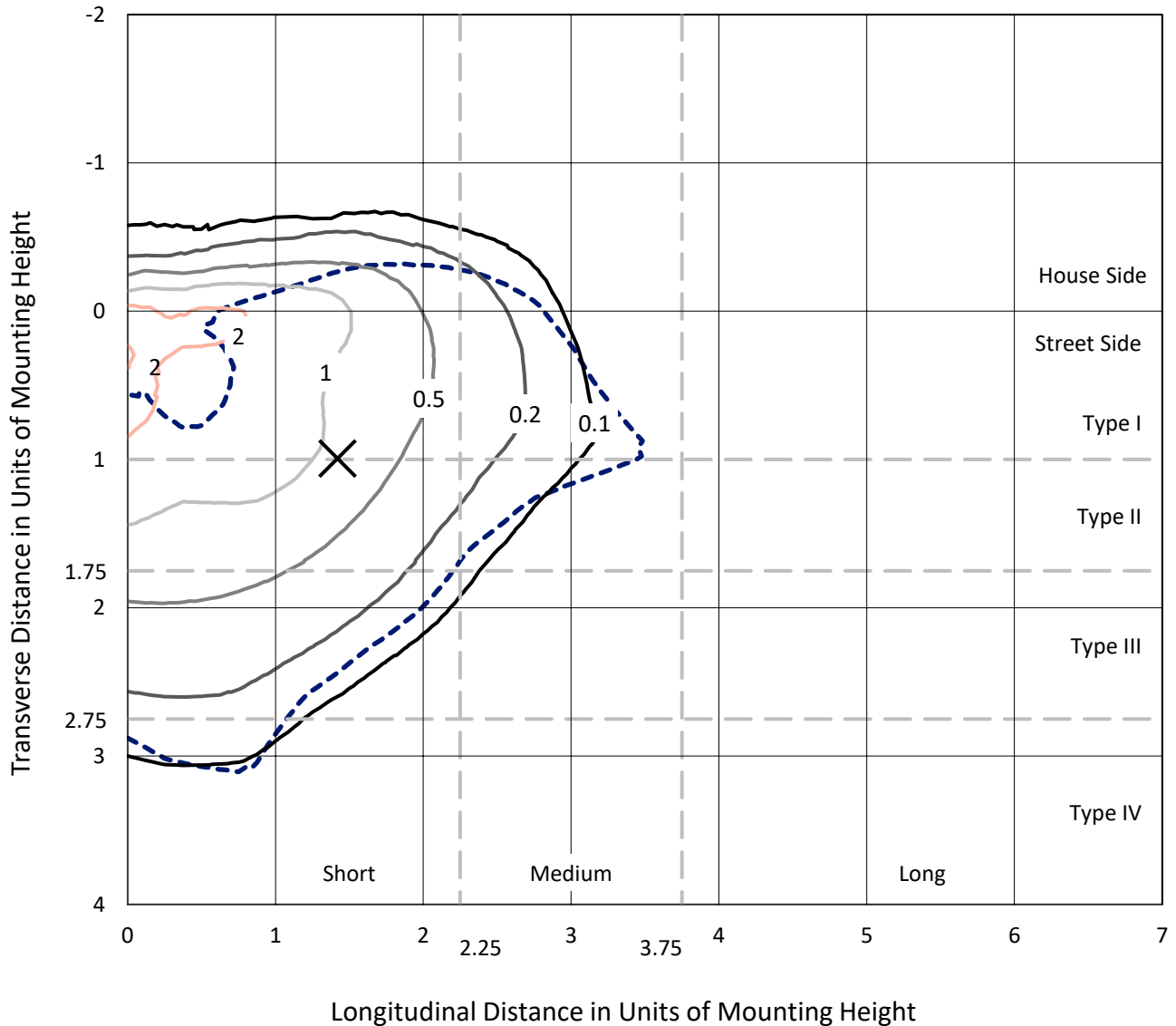
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P647226  
 CATALOG NUMBER: GALN-SA1D-835-U-SLL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

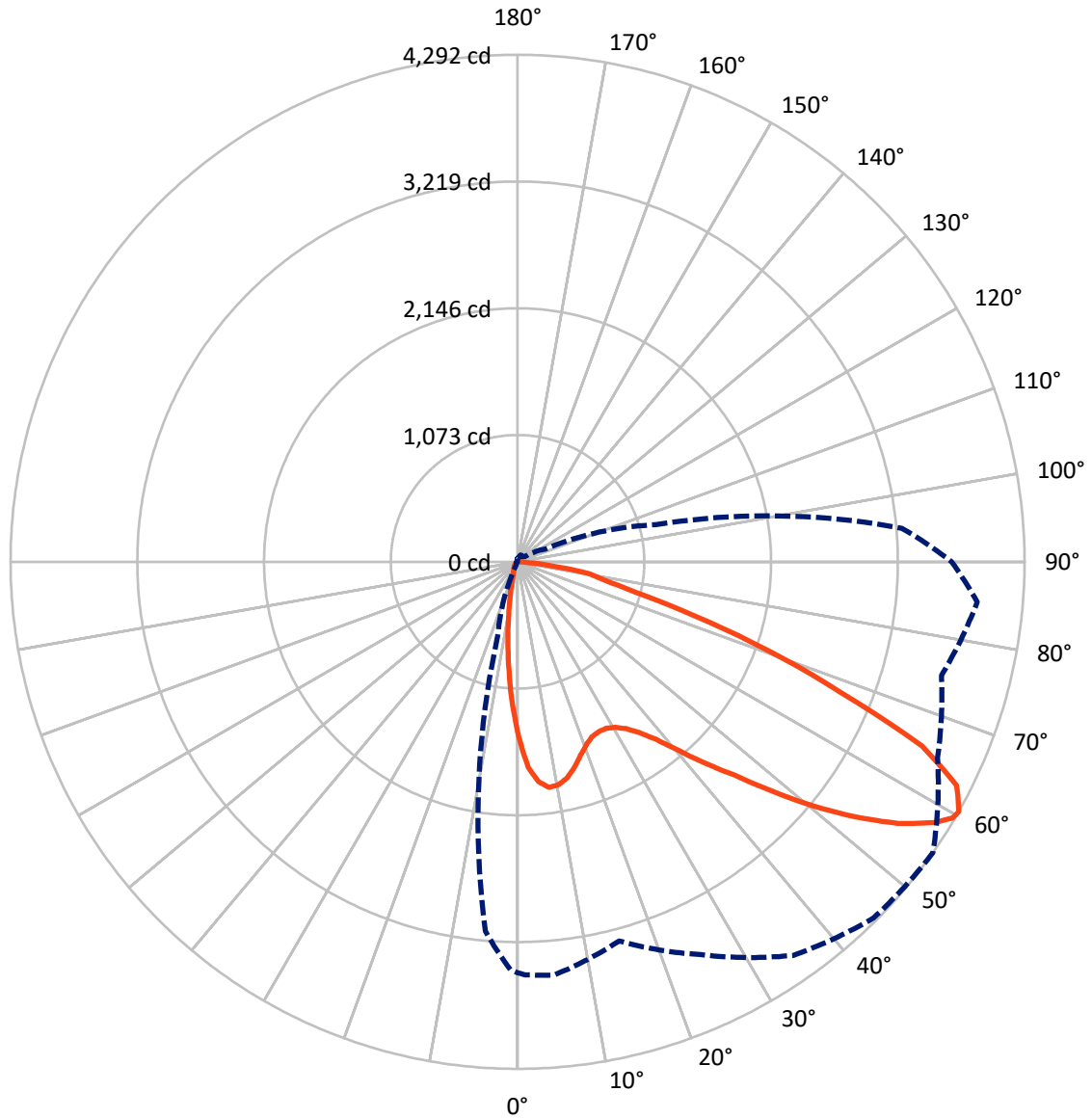
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type III - Short - N/A

REPORT NUMBER: P647226  
CATALOG NUMBER: GALN-SA1D-835-U-SLL-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P647226  
 CATALOG NUMBER: GALN-SA1D-835-U-SLL-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	653.2	0.0	653.2
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	3748.1	0.0	3748.1
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	4401.2	0.0	4401.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.4	2.5
10°-20°	217.3	4.9
20°-30°	321.7	7.3
30°-40°	479.5	10.9
40°-50°	702.2	16.0
50°-60°	1013.8	23.0
60°-70°	1066.4	24.2
70°-80°	438.7	10.0
80°-90°	51.4	1.2
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**

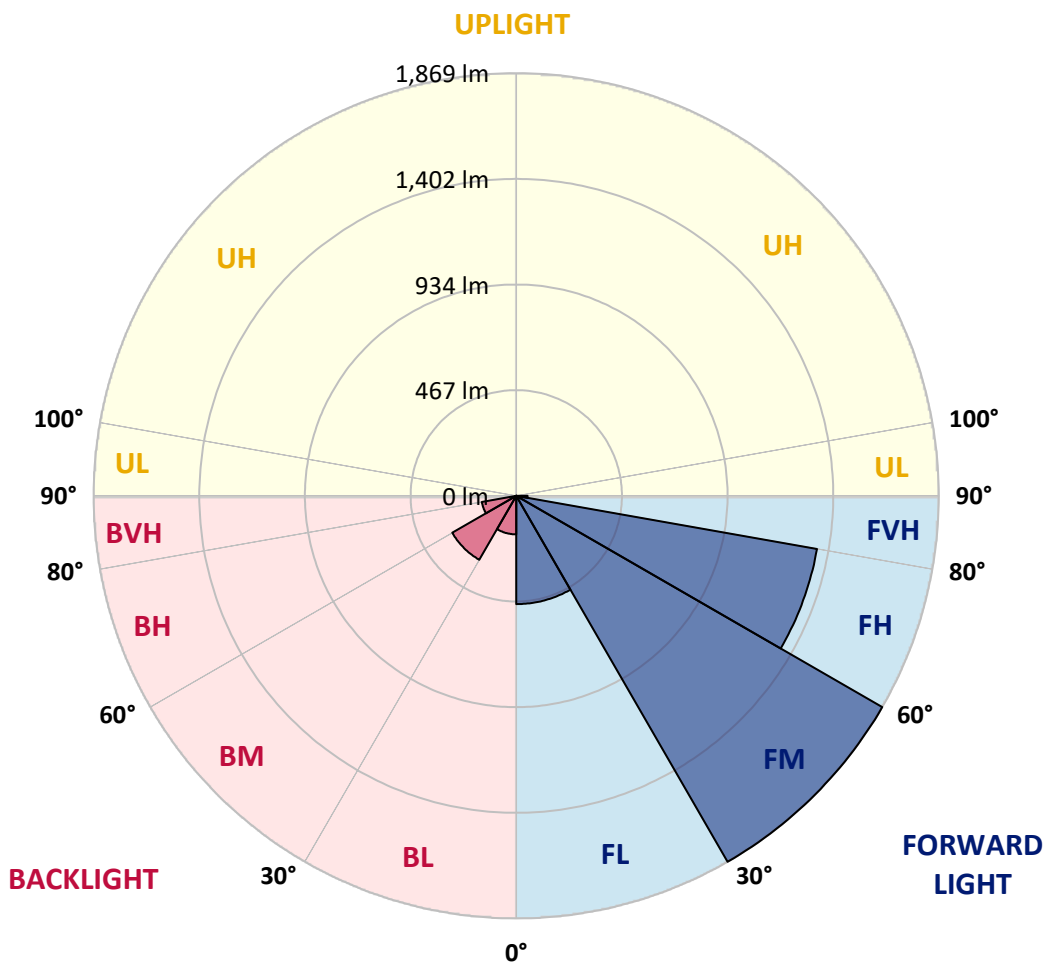


REPORT NUMBER: P647226  
 CATALOG NUMBER: GALN-SA1D-835-U-SLL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	478.9	10.9			
FM (30°-60°)	1868.8	42.5			
FH (60°-80°)	1350.5	30.7			G1/1800
FVH (80°-90°)	49.9	1.1			G1/100
BL (0°-30°)	170.4	3.9	B1/500		
BM (30°-60°)	326.7	7.4	B1/1000		
BH (60°-80°)	154.6	3.5	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			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 III Short





REPORT NUMBER: P647226

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

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3
2.5°	1628.1	1625.4	1649.5	1688.8	1728.4	1749.1	1745.0	1743.3	1710.5	1686.4	1635.9
5°	1624.7	1638.7	1681.6	1788.1	1868.6	1907.6	1919.1	1870.7	1806.7	1713.8	1599.4
7.5°	1527.5	1544.8	1614.9	1781.2	1924.5	2009.3	2006.2	1928.6	1796.5	1652.8	1489.6
10°	1406.9	1427.3	1509.5	1711.5	1897.4	2009.3	2015.4	1917.1	1752.8	1568.5	1396.7
12.5°	1321.9	1345.9	1437.0	1646.4	1827.7	1937.8	1944.9	1873.7	1719.9	1536.0	1346.3
15°	1293.0	1315.8	1408.3	1613.5	1753.5	1812.7	1811.1	1803.6	1707.1	1543.8	1349.0
17.5°	1342.5	1361.2	1465.5	1628.5	1684.0	1677.9	1686.7	1722.7	1709.8	1609.1	1434.4
20°	1470.2	1489.3	1601.4	1674.2	1630.8	1592.2	1596.3	1656.3	1734.8	1732.2	1567.8
22.5°	1646.1	1678.3	1779.9	1762.9	1623.7	1539.1	1530.5	1608.5	1777.5	1873.7	1748.0
25°	1868.6	1901.2	1980.4	1904.6	1658.6	1526.5	1518.7	1593.9	1829.3	2011.9	1951.0
27.5°	2055.7	2080.4	2159.4	2042.5	1710.1	1531.9	1519.0	1595.9	1871.4	2129.5	2122.1
30°	2205.4	2223.7	2270.1	2106.8	1754.5	1555.7	1540.7	1625.7	1890.0	2186.8	2260.6
32.5°	2326.0	2356.8	2371.4	2175.6	1818.2	1600.4	1574.9	1683.0	1935.4	2257.5	2405.9
35°	2463.9	2499.4	2480.8	2241.3	1902.2	1670.1	1639.0	1775.8	2004.2	2322.9	2574.7
37.5°	2638.7	2679.7	2606.8	2310.4	1990.9	1775.1	1760.6	1906.3	2108.5	2416.4	2755.5
40°	2819.6	2843.3	2729.1	2394.4	2100.0	1927.9	1941.8	2100.0	2245.0	2528.5	2948.0
42.5°	2960.8	2983.2	2854.8	2464.9	2211.5	2109.2	2167.1	2333.8	2401.5	2643.4	3091.6
45°	3068.9	3087.9	2941.9	2541.8	2361.9	2371.7	2481.2	2574.7	2558.4	2713.6	3202.4
47.5°	3152.9	3169.2	3009.0	2624.5	2587.2	2692.9	2860.2	2899.8	2721.0	2789.4	3302.7
50°	3187.5	3192.2	3030.0	2729.8	2843.0	3102.1	3276.6	3252.5	2907.4	2873.8	3409.4
52.5°	3232.5	3231.5	3090.0	2830.1	3083.5	3468.0	3642.1	3587.5	3118.1	3000.1	3529.3
55°	3350.8	3352.1	3218.3	2972.3	3288.4	3763.4	3949.7	3910.1	3340.3	3213.6	3669.2
57.5°	3494.4	3499.5	3400.9	3138.7	3484.3	3977.5	4179.4	4164.2	3640.8	3451.1	3801.3
59°	3513.0	3523.2	3487.3	3255.9	3600.5	4043.3	4258.0	4272.9	3801.7	3607.6	3872.8
60°	3479.2	3496.1	3512.4	3322.3	3668.5	4066.9	4262.7	4291.9	3922.6	3713.9	3905.4
62.5°	3331.4	3358.2	3439.9	3526.6	3753.5	3993.1	4111.3	4172.3	4072.4	3993.5	3908.4
65°	3138.0	3151.9	3269.8	3562.8	3588.6	3648.2	3684.8	3763.0	3892.4	4101.1	3768.5
67.5°	2820.9	2861.9	3006.3	3352.5	3101.8	3031.3	3022.1	2944.2	3280.3	3844.4	3423.6
70°	2330.4	2348.7	2526.6	2748.4	2340.9	2232.5	2275.9	2246.7	2542.8	3309.4	2755.5
72.5°	1762.3	1803.6	1977.4	2190.8	1592.9	1452.3	1571.9	1561.1	1910.0	2659.7	1893.1
75°	1253.8	1280.5	1502.1	1714.5	1115.5	945.2	988.2	1028.5	1333.4	2100.0	1118.6
77.5°	861.5	884.6	1050.9	1133.9	813.7	779.5	713.1	752.1	873.7	1246.0	608.8
80°	519.7	518.7	628.0	648.4	566.7	658.3	552.2	620.0	528.1	533.2	235.8
82.5°	337.4	334.0	384.1	418.7	315.4	331.7	222.6	320.8	344.2	148.7	74.5
85°	151.1	157.5	184.6	243.6	138.2	73.5	45.4	98.6	146.7	74.9	0.0
87.5°	15.6	12.2	32.5	59.3	18.9	2.0	6.8	3.4	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: P647226

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

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3
2.5°	1612.5	1592.9	1534.3	1479.4	1432.3	1374.7	1337.4	1278.9	1243.2	1232.4	1234.2
5°	1547.8	1491.3	1379.8	1290.7	1191.5	1134.9	1048.8	966.1	921.4	904.8	897.4
7.5°	1412.3	1351.7	1217.2	1077.3	970.9	871.6	807.7	734.8	685.0	644.0	636.9
10°	1311.7	1232.1	1065.4	915.0	831.0	756.5	692.4	619.6	561.0	514.3	501.4
12.5°	1251.4	1162.3	976.3	850.3	770.7	694.1	610.8	526.4	466.5	416.0	392.6
15°	1240.6	1137.2	951.3	803.9	705.6	613.2	502.4	411.2	349.6	301.8	287.3
17.5°	1306.0	1182.3	947.5	755.4	620.6	489.5	374.4	298.8	229.3	202.6	192.1
20°	1422.5	1261.9	947.2	699.2	533.2	377.0	262.9	194.8	166.7	153.8	147.7
22.5°	1581.3	1370.3	965.1	650.8	442.4	278.1	187.7	155.2	138.9	128.4	126.0
25°	1775.5	1530.9	1009.2	617.9	373.0	218.1	154.8	132.8	119.3	114.5	112.4
27.5°	1947.9	1684.7	1057.7	584.0	323.2	193.1	143.6	121.6	110.8	107.0	104.0
30°	2096.6	1824.3	1081.0	539.3	283.2	176.8	145.6	130.1	115.9	104.7	99.6
32.5°	2220.7	1931.3	1096.3	498.7	249.3	144.6	115.2	100.6	94.2	90.1	86.8
35°	2375.8	2047.2	1087.1	475.6	232.1	131.8	105.0	86.8	75.9	67.7	64.4
37.5°	2538.4	2163.0	1071.2	456.6	224.3	122.3	99.9	82.3	70.5	62.0	57.6
40°	2706.8	2270.5	1052.6	439.0	217.1	116.2	96.9	78.6	66.7	57.6	52.9
42.5°	2860.9	2375.2	1045.1	427.5	205.6	117.2	94.5	76.9	63.0	53.6	49.5
45°	2985.6	2474.4	1055.2	421.4	193.1	115.5	95.2	74.9	60.0	50.8	46.7
47.5°	3118.7	2614.6	1088.1	415.3	180.9	107.4	100.3	74.5	58.6	49.1	44.7
50°	3273.6	2794.1	1163.3	400.4	166.0	98.6	106.7	74.2	56.9	47.1	42.7
52.5°	3479.8	2998.1	1240.9	374.4	144.3	90.1	101.9	73.2	53.6	44.7	40.3
55°	3665.1	3212.9	1306.7	343.5	116.9	77.9	91.8	68.7	47.8	40.6	36.6
57.5°	3741.7	3334.2	1304.6	300.8	93.5	68.4	75.6	63.0	41.7	35.9	32.5
59°	3713.6	3318.9	1260.9	269.4	85.3	63.3	62.6	62.3	39.0	32.5	29.8
60°	3674.0	3263.4	1213.8	253.8	80.3	60.0	57.6	61.6	36.6	30.5	27.8
62.5°	3522.2	3033.0	1057.7	227.3	73.5	50.8	46.0	52.1	32.5	26.4	24.0
65°	3302.3	2679.0	895.4	219.9	71.5	42.0	38.3	37.3	27.8	22.4	20.4
67.5°	2873.5	2267.0	725.3	214.8	72.2	35.2	33.5	28.1	23.0	18.6	17.3
70°	2300.6	1767.7	593.8	209.0	72.8	28.8	28.1	22.4	18.6	15.6	14.3
72.5°	1397.7	1047.8	467.5	181.6	70.8	23.0	25.1	16.9	13.5	11.2	10.5
75°	864.2	717.1	290.0	141.3	46.7	16.9	17.6	10.5	9.2	7.1	7.1
77.5°	500.7	453.0	103.7	50.8	20.7	10.2	7.8	5.4	5.1	3.1	3.1
80°	207.7	166.3	35.9	17.3	11.2	4.8	1.7	0.3	0.0	0.0	0.0
82.5°	60.6	53.9	9.8	7.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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: P647226

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

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3
2.5°	1205.4	1194.2	1189.1	1206.4	1190.5	1210.8	1195.2	1202.0	1221.9	1230.7	1253.4
5°	902.2	890.7	885.2	911.3	909.9	922.8	921.4	933.3	943.4	920.8	944.1
7.5°	628.4	620.6	633.5	653.8	675.5	668.4	668.4	652.5	657.9	654.5	653.5
10°	478.0	451.2	444.4	443.8	451.9	453.6	444.4	422.4	430.6	432.9	447.2
12.5°	376.0	355.4	323.8	309.6	305.9	309.0	278.8	259.5	268.6	263.2	277.1
15°	269.7	252.8	234.1	218.1	213.8	207.7	174.8	151.7	149.1	150.1	152.5
17.5°	192.4	180.9	180.9	164.0	154.8	136.6	120.0	109.8	108.8	109.8	111.4
20°	142.0	135.9	135.1	130.8	120.6	108.4	96.9	94.8	94.2	95.8	96.5
22.5°	122.3	115.9	110.4	110.1	100.6	90.4	85.0	82.3	82.7	83.3	85.0
25°	109.4	102.7	96.9	93.5	86.8	79.6	74.5	73.2	73.2	74.2	74.5
27.5°	100.3	91.8	86.8	82.0	75.9	69.8	65.4	64.4	63.7	64.4	66.1
30°	93.8	85.3	78.9	71.8	67.1	61.3	57.6	56.2	55.9	56.2	57.6
32.5°	80.3	75.2	70.2	63.7	57.9	54.2	50.1	47.8	47.8	48.5	49.8
35°	60.6	57.9	57.6	55.9	51.1	47.1	42.4	40.0	40.0	41.3	42.0
37.5°	53.6	48.5	47.8	47.1	45.0	39.6	35.2	33.2	32.9	33.9	35.2
40°	48.8	43.0	40.0	39.3	39.6	33.5	28.8	26.8	26.8	27.1	28.4
42.5°	45.0	38.3	32.9	32.2	33.5	28.1	23.4	21.4	21.4	21.4	23.0
45°	42.0	34.2	27.8	24.4	26.4	23.0	18.9	16.9	16.3	16.9	17.6
47.5°	40.0	31.2	24.4	19.7	19.7	18.3	15.3	12.8	12.2	12.5	13.5
50°	38.3	28.4	20.7	15.9	14.3	14.6	11.5	9.8	9.2	9.2	10.2
52.5°	35.5	25.8	17.9	13.5	10.8	9.8	8.5	7.1	6.8	7.1	7.8
55°	32.2	23.4	15.6	11.2	8.5	6.8	6.1	5.1	4.8	5.1	6.1
57.5°	28.4	19.7	12.5	8.8	5.8	4.4	4.1	3.4	2.7	3.1	3.8
59°	26.1	17.6	10.8	7.1	4.4	3.1	3.1	2.3	1.7	2.0	3.1
60°	25.1	16.3	9.2	6.1	3.8	2.3	2.3	1.7	1.0	1.3	2.3
62.5°	21.4	13.5	7.1	3.8	1.7	0.3	1.0	0.3	0.0	0.3	1.0
65°	17.9	10.8	4.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.3
67.5°	14.9	8.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	11.8	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	5.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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: P647226  
 CATALOG NUMBER: GALN-SA1D-835-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3
2.5°	1254.8	1303.2	1333.1	1389.3	1446.9	1491.3	1546.8	1596.6	1617.3	1628.1
5°	967.9	1035.3	1092.5	1178.3	1257.9	1354.7	1453.0	1568.8	1613.2	1624.7
7.5°	679.3	748.0	808.0	907.3	1020.7	1150.5	1297.5	1444.5	1509.2	1527.5
10°	490.5	564.1	637.2	736.5	842.5	983.1	1136.2	1318.2	1392.7	1406.9
12.5°	309.6	388.6	507.5	630.1	742.2	855.4	1015.6	1213.5	1295.8	1321.9
15°	179.5	238.5	328.2	488.2	630.8	780.5	955.3	1174.2	1266.3	1293.0
17.5°	120.3	140.6	202.2	324.6	512.9	711.4	940.1	1206.4	1308.3	1342.5
20°	101.3	110.4	132.1	197.9	395.0	649.7	944.1	1293.8	1427.6	1470.2
22.5°	89.1	97.6	111.4	142.3	275.8	573.2	963.5	1418.8	1591.5	1646.1
25°	78.6	87.1	99.3	117.9	185.3	484.8	1005.8	1601.7	1808.7	1868.6
27.5°	69.8	77.6	88.1	104.0	142.6	386.2	1043.4	1779.9	2006.9	2055.7
30°	61.6	68.1	78.2	90.4	118.5	297.8	1062.4	1935.7	2151.2	2205.4
32.5°	53.6	59.6	69.5	79.2	97.6	227.0	1049.1	2050.2	2291.4	2326.0
35°	45.7	52.1	60.3	69.5	84.3	183.3	983.1	2178.9	2436.8	2463.9
37.5°	39.3	44.7	53.2	60.3	76.2	146.7	903.2	2294.8	2599.7	2638.7
40°	33.2	38.6	47.1	53.6	70.2	115.5	831.0	2423.5	2771.5	2819.6
42.5°	27.1	33.5	41.0	51.5	60.3	88.1	743.6	2527.9	2900.5	2960.8
45°	21.7	28.8	37.0	51.1	52.5	67.1	659.2	2609.2	3014.7	3068.9
47.5°	17.3	24.4	35.5	47.8	43.0	53.2	611.1	2694.2	3109.6	3152.9
50°	13.9	20.4	37.3	42.0	35.9	45.0	609.8	2789.1	3158.7	3187.5
52.5°	11.2	16.6	31.5	32.2	30.5	39.6	646.4	2895.8	3208.8	3232.5
55°	9.5	13.9	20.7	23.7	27.4	35.9	673.8	3060.1	3328.4	3350.8
57.5°	7.4	11.8	15.9	18.9	24.4	32.9	677.5	3186.8	3479.8	3494.4
59°	6.4	10.2	14.3	16.9	22.4	30.9	662.3	3194.6	3489.7	3513.0
60°	5.4	9.2	12.5	15.9	20.7	29.1	645.7	3138.0	3453.1	3479.2
62.5°	4.1	7.1	9.2	12.8	16.9	25.1	567.1	2940.6	3313.2	3331.4
65°	2.7	5.1	6.8	9.5	13.2	21.7	462.0	2684.4	3097.0	3138.0
67.5°	1.7	3.8	5.4	7.1	10.8	18.3	329.3	2301.9	2794.5	2820.9
70°	1.0	2.3	4.1	5.8	8.5	14.6	195.4	1819.5	2325.0	2330.4
72.5°	0.7	1.7	2.7	4.1	6.8	13.2	94.8	1186.0	1697.5	1762.3
75°	0.3	1.0	1.7	3.1	5.4	10.8	45.4	792.4	1235.2	1253.8
77.5°	0.0	0.3	1.0	2.0	4.1	8.5	26.4	520.4	842.2	861.5
80°	0.0	0.0	0.7	1.7	3.1	5.4	15.9	306.9	510.2	519.7
82.5°	0.0	0.0	0.3	1.3	2.0	4.1	8.1	134.8	334.0	337.4
85°	0.0	0.0	0.3	1.3	1.7	2.7	3.1	18.3	148.4	151.1
87.5°	0.0	0.0	0.3	1.7	1.7	1.7	1.7	1.0	12.5	15.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)