

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: P647225

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-835-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4564.1 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

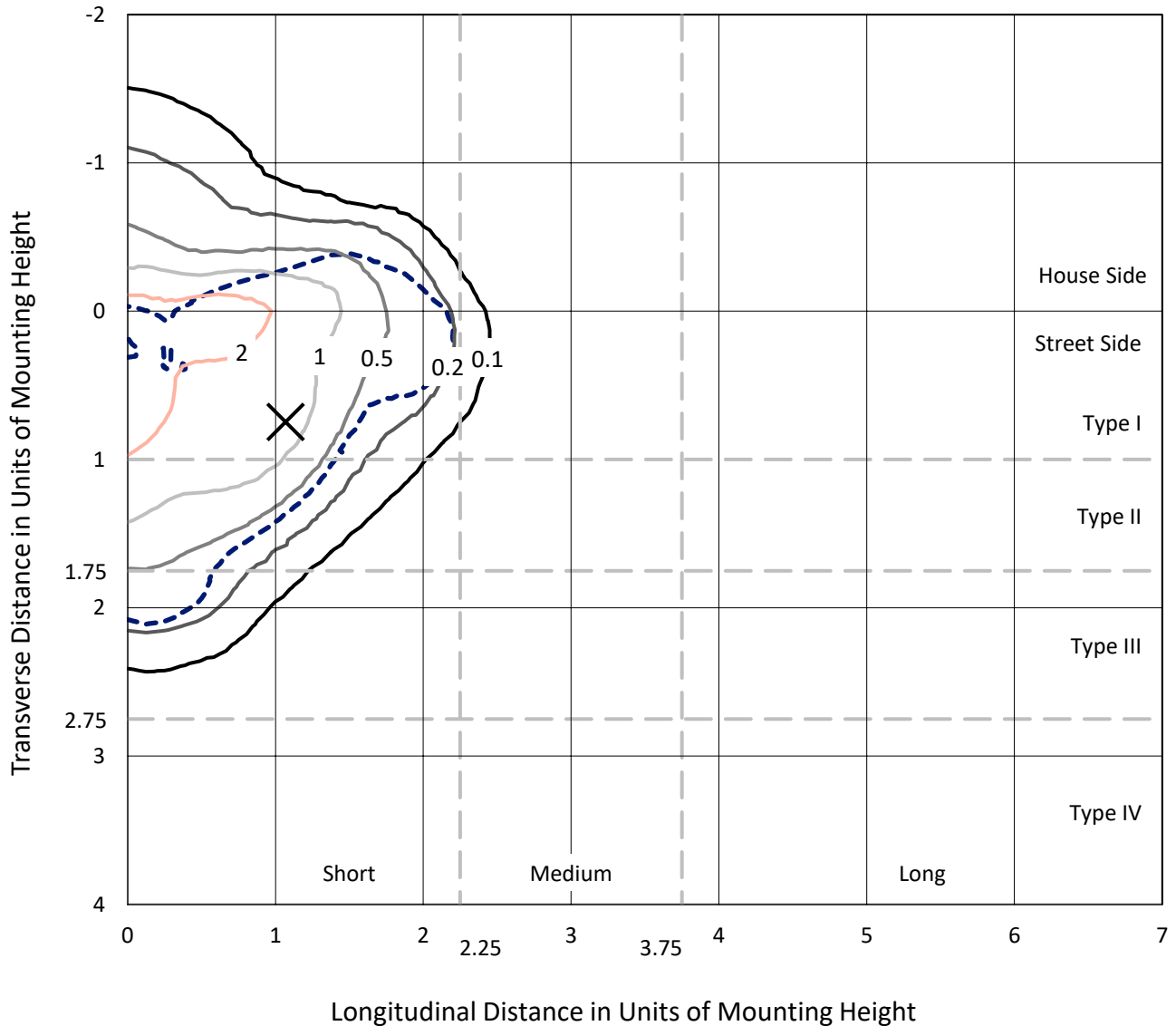
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647225
 CATALOG NUMBER: GALN-SA1D-835-U-SLL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

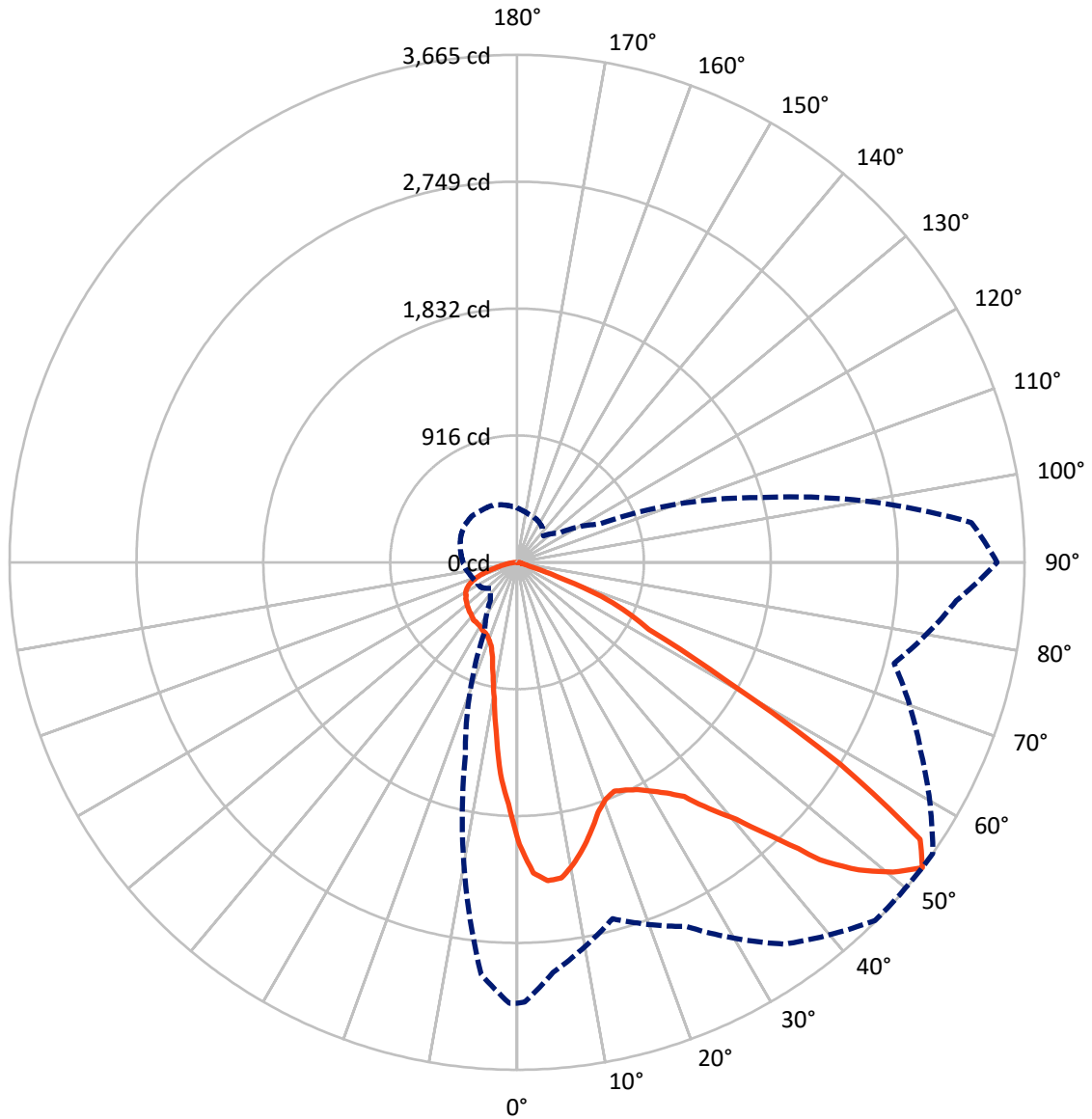
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - N/A

REPORT NUMBER: P647225
CATALOG NUMBER: GALN-SA1D-835-U-SLL-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

REPORT NUMBER: P647225
 CATALOG NUMBER: GALN-SA1D-835-U-SLL-GRSWH

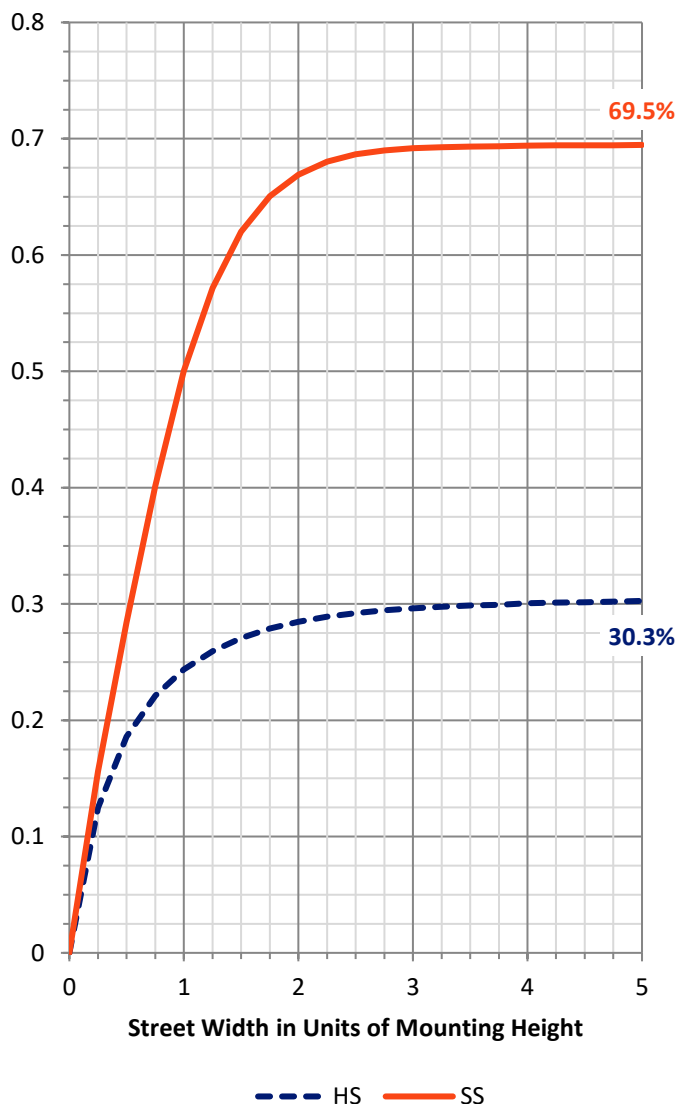
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1392.3	0.0	1392.3
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	3171.8	0.0	3171.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	4564.1	0.0	4564.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	3.4
10°-20°	335.4	7.3
20°-30°	508.5	11.1
30°-40°	734.7	16.1
40°-50°	981.8	21.5
50°-60°	1095.9	24.0
60°-70°	601.2	13.2
70°-80°	130.0	2.8
80°-90°	21.0	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°	4564.1	100.0
0°-180°	4564.1	100.0

Coefficient of Utilization

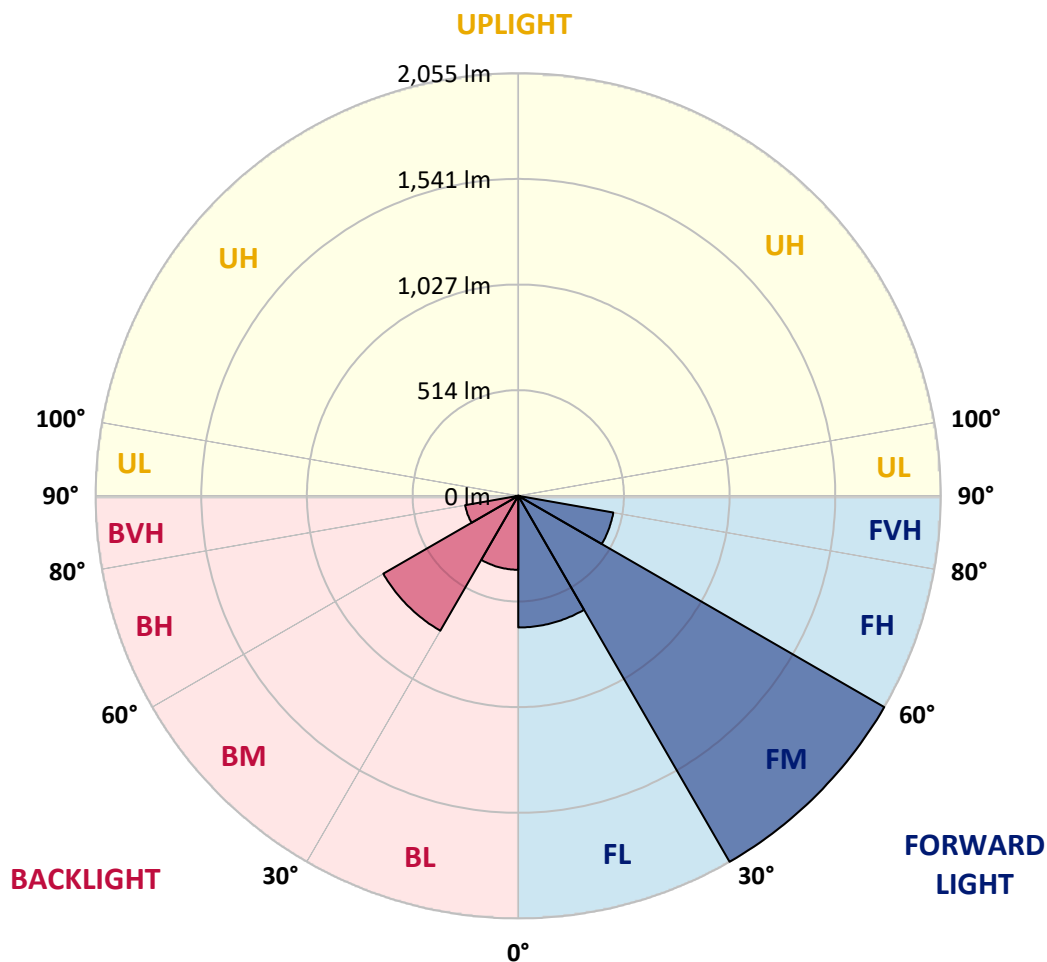


REPORT NUMBER: P647225
 CATALOG NUMBER: GALN-SA1D-835-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	640.0	14.0			
FM (30°-60°)	2055.0	45.0			
FH (60°-80°)	469.1	10.3			G0/660
FVH (80°-90°)	7.8	0.2			G0/10
BL (0°-30°)	359.5	7.9	B1/500		
BM (30°-60°)	757.5	16.6	B1/1000		
BH (60°-80°)	262.1	5.7	B1/500		G1/500
BVH (80°-90°)	13.2	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 II Short





REPORT NUMBER: P647225

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

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2036.0	2036.0	2036.0	2036.0	2036.0	2036.0	2036.0	2036.0	2036.0	2036.0	2036.0
2.5°	2136.6	2124.6	2135.2	2185.9	2215.2	2235.2	2247.8	2245.9	2197.9	2151.2	2151.2
5°	2073.9	2058.6	2080.6	2195.2	2310.5	2320.5	2337.2	2309.8	2239.2	2153.9	2047.3
7.5°	1892.7	1904.0	1940.7	2091.2	2241.2	2316.5	2336.5	2301.9	2187.2	2028.0	1871.4
10°	1736.1	1762.7	1847.3	2010.0	2147.9	2245.9	2267.9	2219.2	2128.6	1933.3	1793.4
12.5°	1682.0	1665.4	1759.4	1922.0	2054.0	2106.6	2116.6	2119.9	2058.6	1885.3	1714.7
15°	1675.4	1686.0	1759.4	1882.6	1964.0	1966.7	1983.3	2009.3	2017.3	1918.0	1751.4
17.5°	1771.4	1758.7	1834.0	1932.0	1893.3	1854.7	1858.7	1896.0	1962.0	1946.0	1866.7
20°	1913.3	1942.0	2001.3	1991.3	1887.3	1789.4	1790.0	1825.3	1955.3	2062.0	2027.3
22.5°	2149.3	2177.2	2221.2	2100.6	1887.3	1770.0	1747.3	1795.3	1998.0	2199.9	2208.5
25°	2364.5	2415.8	2427.8	2285.9	1981.9	1788.1	1773.3	1820.7	2040.6	2334.5	2416.5
27.5°	2560.4	2579.1	2631.7	2405.1	2034.6	1800.0	1798.7	1859.3	2094.6	2401.9	2602.4
30°	2715.1	2713.0	2743.0	2480.5	2118.6	1867.4	1802.7	1917.3	2165.2	2513.1	2774.3
32.5°	2820.4	2843.0	2906.3	2585.1	2153.9	1931.3	1880.7	1985.3	2251.2	2565.7	2895.6
35°	3005.6	3044.9	2965.0	2643.1	2265.8	1994.6	1935.3	2077.9	2293.9	2623.0	3044.2
37.5°	3180.2	3150.2	3068.9	2674.4	2338.5	2111.9	2056.6	2257.2	2426.4	2747.7	3142.9
40°	3292.2	3291.5	3146.9	2699.7	2389.8	2291.2	2287.8	2439.1	2589.1	2826.3	3253.5
42.5°	3340.8	3387.5	3178.9	2697.0	2497.8	2508.4	2575.8	2711.1	2704.4	2842.3	3250.9
44°	3407.5	3435.4	3234.2	2703.1	2569.7	2655.1	2813.6	2899.6	2805.0	2833.7	3247.5
45°	3404.8	3406.8	3155.6	2711.1	2631.0	2777.7	2919.7	3064.9	2893.7	2815.0	3291.5
47.5°	3326.8	3304.2	3088.9	2651.7	2822.3	3101.5	3232.9	3320.9	3003.0	2775.0	3236.8
50°	3172.9	3146.9	2926.9	2626.4	2862.3	3302.9	3484.1	3516.1	3102.2	2735.7	3182.9
52.5°	3183.5	3176.2	2973.0	2664.4	2902.3	3366.1	3656.7	3664.7	3214.8	2818.3	3183.5
55°	3374.1	3348.8	3104.9	2711.7	2873.0	3292.2	3546.8	3532.7	3176.9	2768.4	3242.2
57.5°	3087.6	3104.2	2922.3	2524.5	2514.4	2676.4	2788.3	2753.7	2651.1	2498.5	3016.3
60°	2491.1	2538.4	2555.8	2111.3	1897.4	1814.1	1780.7	1719.4	1736.7	2052.6	2649.8
62.5°	2136.6	2133.9	2242.5	1914.0	1242.9	1069.0	1053.0	1067.0	1266.9	2020.6	2595.1
65°	1694.1	1739.4	1772.7	1622.1	983.7	793.7	793.0	881.7	1096.3	1688.7	2095.2
67.5°	1075.6	1135.0	1176.2	1037.6	657.8	565.2	549.8	656.5	759.7	1107.6	1261.6
70°	606.4	634.5	653.1	598.4	418.5	293.2	275.9	301.2	459.2	717.1	747.8
72.5°	233.9	246.6	271.9	273.9	157.9	94.7	76.7	92.0	193.2	283.9	270.6
75°	36.0	38.7	54.7	65.3	45.3	34.7	36.6	38.0	53.9	73.3	61.3
77.5°	17.3	17.3	16.7	19.3	22.6	24.7	26.6	29.3	32.0	35.3	34.0
80°	11.4	11.4	11.4	13.3	16.7	20.0	22.6	24.0	25.3	28.0	26.6
82.5°	7.4	7.4	7.4	10.0	13.3	16.7	18.0	21.3	24.0	28.0	26.0
85°	4.0	4.0	4.0	6.7	10.0	14.0	13.3	10.6	6.0	0.7	1.3
87.5°	1.3	1.3	1.3	1.3	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: P647225

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2036.0	2036.0	2036.0	2036.0	2036.0	2036.0	2036.0	2036.0	2036.0	2036.0	2036.0
2.5°	2095.2	2064.6	2062.0	1999.3	1943.3	1916.0	1894.0	1832.7	1846.0	1810.7	1810.1
5°	1994.0	1931.3	1830.0	1746.7	1663.4	1646.7	1574.1	1510.8	1512.8	1467.5	1475.5
7.5°	1812.0	1768.7	1645.4	1514.8	1404.2	1325.5	1256.9	1215.6	1162.9	1144.9	1135.6
10°	1696.8	1643.4	1504.8	1340.9	1216.9	1174.9	1109.0	1072.3	1018.3	991.7	973.0
12.5°	1646.1	1568.1	1394.8	1228.2	1145.6	1102.3	1046.3	979.7	915.6	891.1	857.0
15°	1651.4	1558.1	1362.8	1182.9	1083.6	999.7	949.7	875.7	810.4	767.0	742.4
17.5°	1732.1	1618.8	1377.5	1148.3	1005.6	900.4	802.4	722.4	670.4	637.8	629.8
20°	1922.7	1768.7	1402.2	1092.3	927.7	796.4	675.7	592.4	552.5	551.8	552.5
22.5°	2081.3	1928.7	1452.2	1058.9	849.7	663.1	543.2	516.5	508.5	525.2	527.1
25°	2295.2	2108.6	1538.1	1041.6	777.8	565.2	491.2	481.2	480.5	501.8	502.5
27.5°	2514.4	2265.8	1589.4	991.0	704.4	514.5	459.9	457.8	468.5	491.2	489.1
30°	2663.7	2397.8	1682.0	930.4	617.8	469.8	447.2	449.8	464.5	481.9	484.5
32.5°	2837.7	2527.8	1706.1	897.0	564.5	432.5	416.6	422.5	441.1	468.5	483.2
35°	3036.9	2619.8	1742.7	851.7	544.5	403.9	395.9	402.5	425.2	443.2	459.2
37.5°	3184.2	2782.3	1749.4	816.4	522.5	387.9	375.2	397.2	410.5	435.8	443.8
40°	3293.5	2900.3	1766.7	794.4	505.2	367.2	367.2	381.9	399.9	423.2	439.2
42.5°	3363.5	2986.3	1779.4	774.4	471.8	361.2	357.9	372.6	396.5	419.2	426.5
44°	3406.1	3022.9	1766.7	755.8	462.5	353.8	353.8	366.5	385.2	411.9	420.5
45°	3416.8	3068.9	1738.7	755.0	451.2	345.2	343.9	367.9	380.5	413.2	418.5
47.5°	3458.1	3125.6	1742.0	733.7	423.8	324.6	347.9	358.5	369.9	398.5	416.6
50°	3456.8	3160.9	1734.7	702.4	403.9	301.2	339.9	351.9	363.2	392.5	399.9
52.5°	3466.1	3292.8	1802.0	652.5	367.9	271.2	313.2	339.9	353.8	378.5	393.8
55°	3461.4	3368.2	1868.7	615.1	317.2	253.2	290.6	321.9	341.9	367.9	375.2
57.5°	3161.5	2977.0	1729.4	545.1	262.5	231.9	258.5	303.3	328.5	355.2	364.6
60°	2583.1	2294.5	1426.2	401.2	216.0	213.3	240.6	297.2	307.9	331.2	347.2
62.5°	2387.1	2012.6	1131.0	306.5	184.6	195.3	221.9	268.6	285.2	313.9	328.5
65°	1868.0	1336.9	700.4	207.3	162.6	175.2	200.6	235.2	262.5	289.2	306.5
67.5°	1106.3	730.4	346.6	145.2	142.0	155.3	181.3	207.3	238.6	267.9	276.6
70°	602.4	359.2	147.9	110.6	120.7	132.6	157.9	175.9	205.9	228.6	243.3
72.5°	193.2	109.3	74.0	82.0	92.0	105.9	121.3	143.3	164.6	178.0	190.0
75°	46.7	46.0	52.6	57.3	66.6	77.3	90.0	101.3	117.9	130.6	141.3
77.5°	32.7	35.3	40.6	47.3	50.7	54.7	62.6	71.3	78.6	87.9	94.7
80°	25.3	27.3	31.3	34.7	38.0	41.3	45.3	48.6	53.3	59.4	62.6
82.5°	24.0	25.3	29.3	31.3	30.0	29.3	32.0	33.4	34.0	36.0	38.0
85°	2.0	0.0	1.3	4.7	11.4	16.7	18.0	18.0	17.3	18.6	18.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.7	2.0
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: P647225

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

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2036.0	2036.0	2036.0	2036.0	2036.0	2036.0	2036.0	2036.0	2036.0	2036.0	2036.0
2.5°	1802.0	1779.4	1788.1	1798.7	1783.4	1748.0	1757.4	1753.4	1789.4	1786.7	1822.7
5°	1510.8	1475.5	1479.5	1531.5	1514.8	1532.8	1496.8	1492.2	1498.8	1502.1	1508.1
7.5°	1156.3	1151.6	1191.6	1235.6	1256.2	1234.9	1199.6	1191.6	1184.2	1169.6	1202.9
10°	943.7	945.0	942.3	975.6	999.0	994.3	973.0	970.3	956.4	951.0	969.7
12.5°	842.4	824.3	815.7	805.1	823.0	835.1	825.7	819.0	819.7	826.4	829.0
15°	744.4	733.0	714.4	702.4	711.0	705.1	701.7	715.1	711.7	710.4	726.4
17.5°	634.5	643.8	642.5	629.1	640.4	635.8	635.1	625.8	613.1	603.8	609.1
20°	561.8	579.1	592.4	593.1	599.2	598.4	588.4	559.8	550.4	548.5	549.8
22.5°	535.8	545.1	561.1	583.8	583.8	573.2	561.1	527.8	519.1	509.8	505.8
25°	515.1	533.1	553.8	556.5	567.1	557.1	537.8	521.2	503.2	490.5	490.5
27.5°	504.5	524.5	539.8	544.5	559.1	551.2	531.1	509.8	488.5	487.8	476.5
30°	499.8	518.5	528.4	539.8	546.5	533.8	527.8	505.2	483.8	478.5	459.9
32.5°	485.9	512.5	531.1	528.4	533.8	528.4	519.8	501.1	477.2	465.2	463.1
35°	469.8	496.5	516.5	530.5	533.8	522.5	517.2	491.8	459.2	453.2	432.5
37.5°	461.2	477.2	501.8	524.5	529.2	523.1	505.2	479.2	446.5	439.8	421.9
40°	450.5	471.1	490.5	509.2	523.1	508.5	487.8	462.5	447.9	427.8	422.5
42.5°	442.5	465.8	481.9	502.5	518.5	499.2	475.2	457.8	437.1	423.8	408.5
44°	439.8	461.2	471.8	497.1	510.5	495.8	475.8	457.8	433.9	421.9	408.5
45°	430.5	459.9	471.1	493.8	505.2	493.1	467.8	449.8	432.5	417.9	403.9
47.5°	421.2	441.1	460.5	478.5	486.5	482.5	461.2	439.2	418.5	409.8	396.5
50°	418.5	438.5	456.5	473.2	482.5	474.5	455.2	433.9	409.8	395.9	384.5
52.5°	405.2	429.9	449.8	455.2	467.1	462.5	447.9	424.5	401.8	389.9	380.5
55°	385.9	411.9	439.2	445.8	463.1	455.9	433.9	411.9	392.5	374.5	362.5
57.5°	378.5	403.9	430.5	439.2	449.8	437.9	432.5	409.2	378.5	369.2	350.5
60°	359.9	391.9	413.8	433.9	434.5	431.2	421.9	395.2	369.9	352.5	339.2
62.5°	345.2	375.2	392.5	411.2	422.5	413.2	403.9	379.2	351.9	332.5	317.2
65°	323.8	351.2	365.9	377.2	389.9	388.5	372.6	354.5	325.9	310.5	295.9
67.5°	291.2	315.2	335.2	345.9	353.8	351.9	339.9	327.2	297.9	282.6	271.9
70°	251.9	276.6	289.2	295.2	303.3	307.2	297.9	291.9	265.9	245.9	235.9
72.5°	202.6	218.6	237.2	242.6	245.9	248.6	248.6	243.3	216.6	208.6	191.3
75°	149.3	161.9	175.9	175.9	182.0	182.6	183.9	180.6	160.6	149.9	146.0
77.5°	101.3	110.6	122.0	126.6	130.6	130.0	129.3	120.0	109.3	104.6	100.6
80°	66.0	75.3	80.6	86.6	90.7	90.0	91.3	84.6	79.9	72.0	73.3
82.5°	39.3	46.7	52.0	59.4	59.4	61.3	61.3	59.4	54.7	50.7	50.7
85°	18.6	24.7	28.0	32.7	35.3	36.0	32.0	27.3	22.6	20.7	22.6
87.5°	3.4	4.7	6.7	6.0	7.4	6.7	6.7	6.7	6.7	5.3	6.0
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: P647225

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2036.0	2036.0	2036.0	2036.0	2036.0	2036.0	2036.0	2036.0	2036.0	2036.0
2.5°	1809.4	1842.7	1866.0	1904.6	1971.3	2024.6	2079.3	2119.9	2124.6	2136.6
5°	1530.1	1548.1	1607.4	1684.7	1739.4	1829.3	1887.3	1992.7	2032.0	2073.9
7.5°	1194.9	1224.2	1303.5	1355.5	1475.5	1588.1	1704.7	1834.6	1886.6	1892.7
10°	1007.6	1050.3	1104.3	1187.6	1252.9	1378.2	1523.5	1668.1	1726.0	1736.1
12.5°	885.0	939.7	1011.6	1071.6	1134.3	1243.6	1382.9	1561.5	1636.8	1682.0
15°	767.0	823.7	903.0	986.3	1041.6	1172.2	1336.2	1537.4	1635.5	1675.4
17.5°	645.7	698.4	763.7	853.7	965.0	1111.6	1328.8	1617.4	1724.7	1771.4
20°	541.8	571.1	647.1	739.7	879.0	1049.6	1331.5	1735.4	1892.7	1913.3
22.5°	501.1	507.9	537.8	623.1	775.7	986.3	1378.9	1902.7	2081.3	2149.3
25°	469.8	468.5	476.5	533.8	700.4	961.7	1425.5	2056.6	2290.5	2364.5
27.5°	452.5	439.2	439.8	493.8	647.1	921.7	1485.5	2233.2	2527.8	2560.4
30°	443.8	441.1	433.2	455.2	589.1	861.7	1495.5	2407.2	2667.8	2715.1
32.5°	438.5	412.5	402.5	410.5	534.5	796.4	1532.8	2521.8	2841.0	2820.4
35°	411.9	388.5	381.9	389.9	495.8	759.7	1508.1	2621.7	2970.9	3005.6
37.5°	401.8	381.2	367.9	361.2	459.9	729.1	1495.5	2775.7	3096.9	3180.2
40°	392.5	370.5	354.5	347.9	431.8	688.4	1491.5	2894.3	3242.2	3292.2
42.5°	381.9	367.9	349.8	337.9	397.8	647.8	1445.5	2930.9	3286.8	3340.8
44°	378.5	357.2	338.6	334.6	384.5	627.1	1436.2	2964.3	3325.5	3407.5
45°	375.2	355.2	333.9	328.5	379.8	615.8	1423.5	2972.3	3389.5	3404.8
47.5°	365.9	353.2	332.5	317.9	369.9	591.1	1385.5	2926.9	3324.1	3326.8
50°	358.5	343.9	322.5	293.9	356.6	570.5	1402.8	2910.3	3166.8	3172.9
52.5°	350.5	328.5	316.6	267.2	334.6	553.1	1439.5	2985.6	3184.9	3183.5
55°	341.2	317.2	287.9	244.6	297.9	531.1	1528.1	3134.2	3351.5	3374.1
57.5°	326.6	305.9	263.9	224.6	255.9	489.1	1499.4	2849.7	3083.6	3087.6
60°	307.2	287.9	239.3	209.3	209.9	385.9	1340.9	2220.5	2433.2	2491.1
62.5°	288.5	277.9	218.6	187.3	178.6	307.2	1133.6	1845.4	2088.6	2136.6
65°	266.5	240.6	200.6	170.6	153.3	215.2	803.0	1378.9	1629.4	1694.1
67.5°	238.6	210.6	176.6	149.9	131.3	143.9	414.5	783.7	1037.6	1075.6
70°	208.6	182.6	148.6	126.6	105.9	99.3	182.6	373.9	567.1	606.4
72.5°	171.2	147.3	118.6	100.0	79.3	68.7	61.3	100.0	201.2	233.9
75°	123.9	107.3	89.3	71.3	56.0	44.0	36.0	30.0	33.4	36.0
77.5°	91.3	78.0	66.0	50.7	39.3	31.3	24.7	18.6	18.0	17.3
80°	71.3	63.3	52.6	40.6	30.7	23.3	17.3	12.7	11.4	11.4
82.5°	56.0	52.0	43.3	33.4	25.3	18.6	12.7	8.7	7.4	7.4
85°	21.3	21.3	31.3	27.3	19.3	13.3	8.7	4.7	4.0	4.0
87.5°	5.3	5.3	5.3	5.3	4.7	4.0	4.0	2.0	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)