

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: P526910

Luminaire Tested: **GALN-SA1D-827-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526910
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-827-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 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: 4285 lumens
Efficiency: N/A
Efficacy: 65.9 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

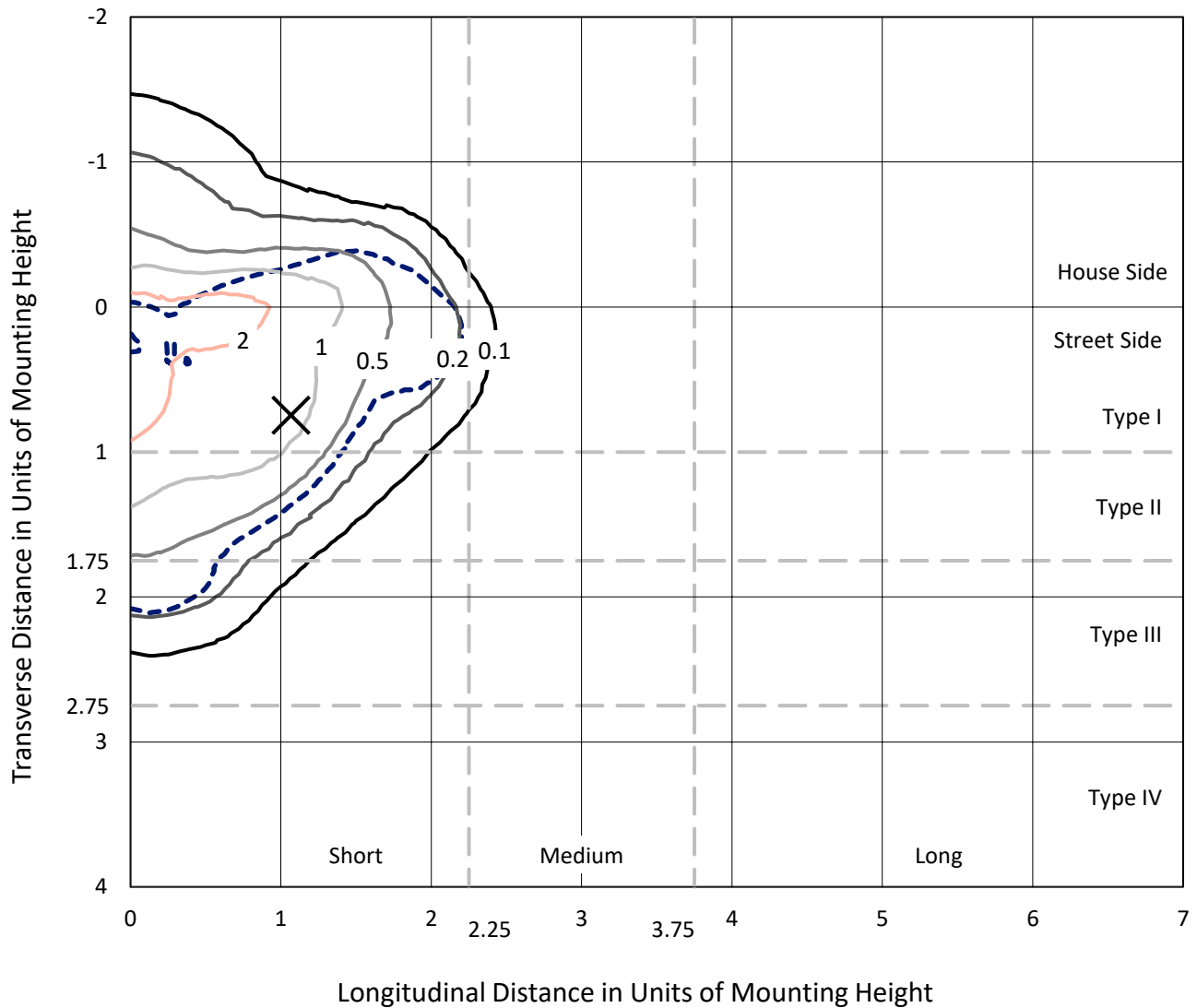
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

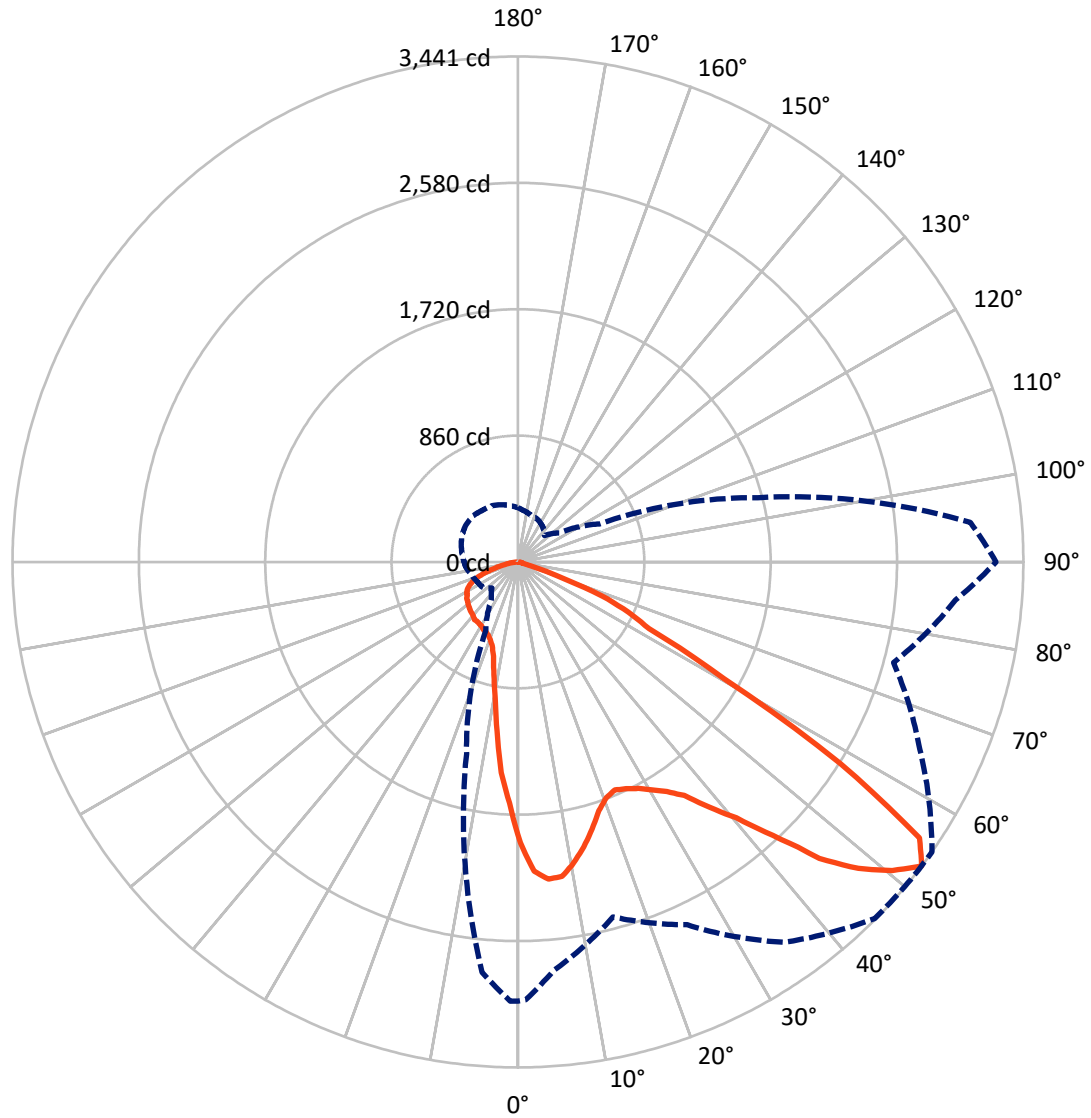
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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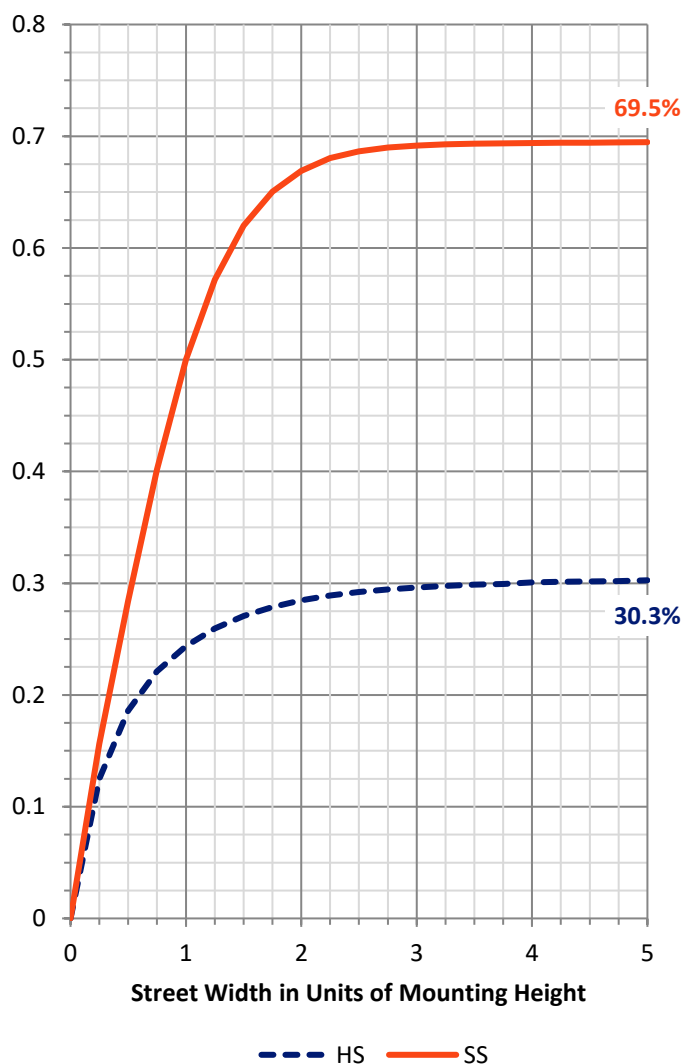
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1307.2	0.0	1307.2
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	2977.8	0.0	2977.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	4285.0	0.0	4285.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.0	3.4
10°-20°	314.9	7.3
20°-30°	477.4	11.1
30°-40°	689.8	16.1
40°-50°	921.8	21.5
50°-60°	1028.9	24.0
60°-70°	564.4	13.2
70°-80°	122.0	2.8
80°-90°	19.7	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°	4285.0	100.0
0°-180°	4285.0	100.0

Coefficient of Utilization



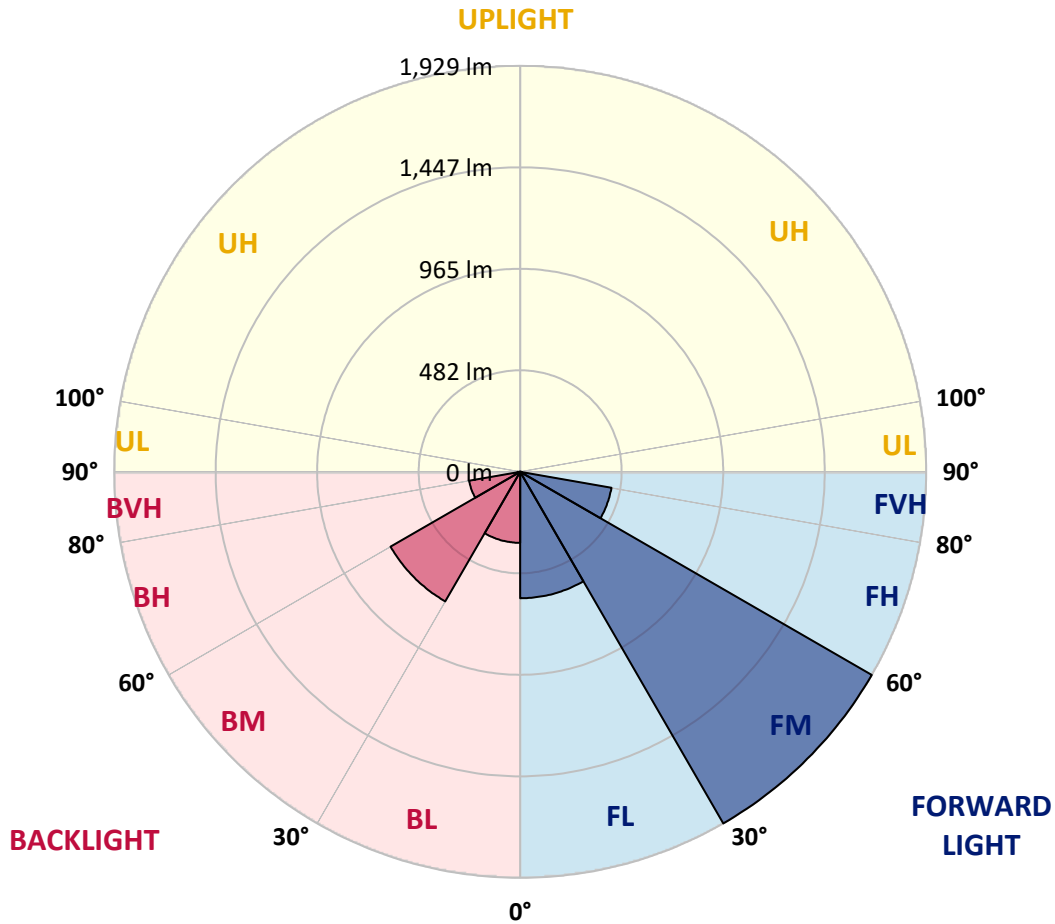
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	600.8	14.0			
FM (30°-60°)	1929.3	45.0			
FH (60°-80°)	440.4	10.3			G0/660
FVH (80°-90°)	7.3	0.2			G0/10
BL (0°-30°)	337.5	7.9	B1/500		
BM (30°-60°)	711.2	16.6	B1/1000		
BH (60°-80°)	246.0	5.7	B1/500		G1/500
BVH (80°-90°)	12.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4
2.5°	2005.9	1994.7	2004.7	2052.2	2079.7	2098.5	2110.4	2108.5	2063.5	2019.7	2019.7
5°	1947.1	1932.7	1953.4	2061.0	2169.2	2178.6	2194.2	2168.6	2102.3	2022.2	1922.1
7.5°	1776.9	1787.6	1822.0	1963.4	2104.1	2174.9	2193.6	2161.1	2053.5	1903.9	1756.9
10°	1629.9	1654.9	1734.4	1887.0	2016.6	2108.5	2129.2	2083.5	1998.4	1815.1	1683.7
12.5°	1579.2	1563.6	1651.8	1804.5	1928.3	1977.8	1987.1	1990.3	1932.7	1770.0	1609.9
15°	1573.0	1583.0	1651.8	1767.5	1843.9	1846.4	1862.0	1886.4	1893.9	1800.7	1644.3
17.5°	1663.0	1651.2	1721.9	1813.8	1777.5	1741.3	1745.0	1780.0	1842.0	1827.0	1752.5
20°	1796.3	1823.2	1878.9	1869.5	1771.9	1679.9	1680.6	1713.7	1835.7	1935.8	1903.3
22.5°	2017.8	2044.1	2085.4	1972.1	1771.9	1661.8	1640.5	1685.6	1875.8	2065.4	2073.5
25°	2219.9	2268.1	2279.3	2146.1	1860.8	1678.7	1664.9	1709.3	1915.8	2191.7	2268.7
27.5°	2403.8	2421.4	2470.8	2258.1	1910.2	1690.0	1688.7	1745.6	1966.5	2254.9	2443.3
30°	2549.0	2547.1	2575.3	2328.8	1989.0	1753.1	1692.5	1800.1	2032.8	2359.4	2604.7
32.5°	2647.9	2669.1	2728.6	2427.0	2022.2	1813.2	1765.7	1863.9	2113.5	2408.9	2718.6
35°	2821.8	2858.7	2783.6	2481.4	2127.3	1872.6	1817.0	1950.9	2153.6	2462.7	2858.1
37.5°	2985.7	2957.6	2881.2	2510.8	2195.5	1982.8	1930.8	2119.2	2278.1	2579.7	2950.7
40°	3090.8	3090.2	2954.4	2534.6	2243.7	2151.1	2147.9	2290.0	2430.8	2653.5	3054.6
42.5°	3136.5	3180.3	2984.5	2532.1	2345.0	2355.0	2418.2	2545.3	2539.0	2668.5	3052.0
44°	3199.1	3225.4	3036.4	2537.7	2412.6	2492.7	2641.6	2722.3	2633.5	2660.4	3048.9
45°	3196.6	3198.5	2962.6	2545.3	2470.2	2607.8	2741.1	2877.5	2716.7	2642.9	3090.2
47.5°	3123.4	3102.1	2900.0	2489.6	2649.7	2911.9	3035.2	3117.7	2819.3	2605.3	3038.9
50°	2978.8	2954.4	2748.0	2465.8	2687.3	3100.9	3271.0	3301.1	2912.5	2568.4	2988.2
52.5°	2988.9	2982.0	2791.1	2501.5	2724.8	3160.3	3433.1	3440.6	3018.3	2646.0	2988.9
55°	3167.8	3144.0	2915.0	2545.9	2697.3	3090.8	3329.8	3316.7	2982.6	2599.1	3043.9
57.5°	2898.8	2914.4	2743.6	2370.1	2360.7	2512.7	2617.8	2585.3	2488.9	2345.7	2831.8
60°	2338.8	2383.2	2399.5	1982.1	1781.3	1703.1	1671.8	1614.2	1630.5	1927.1	2487.7
62.5°	2005.9	2003.4	2105.4	1796.9	1166.9	1003.6	988.6	1001.7	1189.4	1897.1	2436.4
65°	1590.5	1633.0	1664.3	1522.9	923.5	745.2	744.6	827.8	1029.2	1585.5	1967.1
67.5°	1009.8	1065.5	1104.3	974.2	617.5	530.6	516.2	616.3	713.3	1039.9	1184.4
70°	569.4	595.6	613.2	561.9	392.9	275.3	259.0	282.8	431.1	673.2	702.0
72.5°	219.6	231.5	255.3	257.2	148.3	88.8	72.0	86.3	181.4	266.5	254.0
75°	33.8	36.3	51.3	61.3	42.5	32.5	34.4	35.7	50.7	68.8	57.6
77.5°	16.3	16.3	15.6	18.1	21.3	23.2	25.0	27.5	30.0	33.2	31.9
80°	10.6	10.6	10.6	12.5	15.6	18.8	21.3	22.5	23.8	26.3	25.0
82.5°	6.9	6.9	6.9	9.4	12.5	15.6	16.9	20.0	22.5	26.3	24.4
85°	3.8	3.8	3.8	6.3	9.4	13.1	12.5	10.0	5.6	0.6	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4
2.5°	1967.1	1938.3	1935.8	1877.0	1824.5	1798.8	1778.2	1720.6	1733.1	1700.0	1699.3
5°	1872.0	1813.2	1718.1	1639.9	1561.7	1546.0	1477.8	1418.4	1420.3	1377.7	1385.2
7.5°	1701.2	1660.5	1544.8	1422.2	1318.3	1244.5	1180.0	1141.2	1091.8	1074.9	1066.2
10°	1593.0	1542.9	1412.8	1258.9	1142.5	1103.1	1041.1	1006.7	956.0	931.0	913.5
12.5°	1545.4	1472.2	1309.5	1153.1	1075.5	1034.9	982.3	919.7	859.7	836.5	804.6
15°	1550.4	1462.8	1279.5	1110.6	1017.3	938.5	891.6	822.1	760.8	720.2	697.0
17.5°	1626.1	1519.8	1293.3	1078.0	944.1	845.3	753.3	678.2	629.4	598.8	591.3
20°	1805.1	1660.5	1316.4	1025.5	870.9	747.7	634.4	556.2	518.7	518.1	518.7
22.5°	1954.0	1810.7	1363.3	994.2	797.7	622.5	509.9	484.9	477.4	493.0	494.9
25°	2154.8	1979.6	1444.1	977.9	730.2	530.6	461.1	451.7	451.1	471.1	471.8
27.5°	2360.7	2127.3	1492.2	930.4	661.3	483.0	431.7	429.8	439.9	461.1	459.2
30°	2500.8	2251.2	1579.2	873.4	580.0	441.1	419.8	422.3	436.1	452.4	454.9
32.5°	2664.1	2373.2	1601.7	842.2	529.9	406.1	391.0	396.7	414.2	439.9	453.6
35°	2851.2	2459.5	1636.1	799.6	511.2	379.2	371.7	377.9	399.2	416.1	431.1
37.5°	2989.5	2612.2	1642.4	766.5	490.5	364.1	352.3	372.9	385.4	409.2	416.7
40°	3092.1	2722.9	1658.7	745.8	474.3	344.7	344.7	358.5	375.4	397.3	412.3
42.5°	3157.8	2803.7	1670.6	727.0	443.0	339.1	336.0	349.8	372.3	393.6	400.4
44°	3197.8	2838.1	1658.7	709.5	434.2	332.2	332.2	344.1	361.6	386.7	394.8
45°	3207.8	2881.2	1632.4	708.9	423.6	324.1	322.8	345.4	357.3	387.9	392.9
47.5°	3246.6	2934.4	1635.5	688.9	397.9	304.7	326.6	336.6	347.3	374.2	391.0
50°	3245.4	2967.6	1628.6	659.5	379.2	282.8	319.1	330.4	341.0	368.5	375.4
52.5°	3254.1	3091.5	1691.8	612.5	345.4	254.7	294.1	319.1	332.2	355.4	369.8
55°	3249.8	3162.2	1754.4	577.5	297.8	237.8	272.8	302.2	321.0	345.4	352.3
57.5°	2968.2	2794.9	1623.6	511.8	246.5	217.7	242.8	284.7	308.5	333.5	342.2
60°	2425.1	2154.2	1338.9	376.7	202.7	200.2	225.9	279.1	289.1	311.0	326.0
62.5°	2241.2	1889.5	1061.8	287.8	173.3	183.3	208.4	252.1	267.8	294.7	308.5
65°	1753.8	1255.1	657.6	194.6	152.7	164.6	188.3	220.9	246.5	271.5	287.8
67.5°	1038.6	685.7	325.4	136.4	133.3	145.8	170.2	194.6	224.0	251.5	259.7
70°	565.6	337.2	138.9	103.9	113.2	124.5	148.3	165.2	193.3	214.6	228.4
72.5°	181.4	102.6	69.5	77.0	86.3	99.5	113.9	134.5	154.5	167.1	178.3
75°	43.8	43.2	49.4	53.8	62.6	72.6	84.5	95.1	110.7	122.6	132.6
77.5°	30.7	33.2	38.2	44.4	47.6	51.3	58.8	66.9	73.8	82.6	88.8
80°	23.8	25.7	29.4	32.5	35.7	38.8	42.5	45.7	50.1	55.7	58.8
82.5°	22.5	23.8	27.5	29.4	28.2	27.5	30.0	31.3	31.9	33.8	35.7
85°	1.9	0.0	1.3	4.4	10.6	15.6	16.9	16.9	16.3	17.5	17.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.5	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4
2.5°	1691.8	1670.6	1678.7	1688.7	1674.3	1641.1	1649.9	1646.2	1679.9	1677.4	1711.2
5°	1418.4	1385.2	1389.0	1437.8	1422.2	1439.1	1405.3	1400.9	1407.1	1410.3	1415.9
7.5°	1085.5	1081.2	1118.7	1160.0	1179.4	1159.4	1126.2	1118.7	1111.8	1098.1	1129.3
10°	886.0	887.2	884.7	916.0	937.9	933.5	913.5	911.0	897.8	892.8	910.4
12.5°	790.9	774.0	765.8	755.8	772.7	784.0	775.2	769.0	769.6	775.8	778.3
15°	698.9	688.2	670.7	659.5	667.6	662.0	658.8	671.4	668.2	667.0	682.0
17.5°	595.6	604.4	603.2	590.6	601.3	596.9	596.3	587.5	575.6	566.9	571.9
20°	527.4	543.7	556.2	556.9	562.5	561.9	552.5	525.6	516.8	514.9	516.2
22.5°	503.0	511.8	526.8	548.1	548.1	538.1	526.8	495.5	487.4	478.6	474.9
25°	483.6	500.5	519.9	522.4	532.5	523.1	504.9	489.3	472.4	460.5	460.5
27.5°	473.6	492.4	506.8	511.2	524.9	517.4	498.7	478.6	458.6	458.0	447.4
30°	469.3	486.8	496.2	506.8	513.1	501.2	495.5	474.3	454.2	449.2	431.7
32.5°	456.1	481.1	498.7	496.2	501.2	496.2	488.0	470.5	448.0	436.7	434.8
35°	441.1	466.1	484.9	498.0	501.2	490.5	485.5	461.7	431.1	425.5	406.1
37.5°	433.0	448.0	471.1	492.4	496.8	491.2	474.3	449.9	419.2	412.9	396.1
40°	423.0	442.4	460.5	478.0	491.2	477.4	458.0	434.2	420.5	401.7	396.7
42.5°	415.4	437.3	452.4	471.8	486.8	468.6	446.1	429.8	410.4	397.9	383.5
44°	412.9	433.0	443.0	466.8	479.3	465.5	446.7	429.8	407.3	396.1	383.5
45°	404.2	431.7	442.4	463.6	474.3	463.0	439.2	422.3	406.1	392.3	379.2
47.5°	395.4	414.2	432.3	449.2	456.7	453.0	433.0	412.3	392.9	384.8	372.3
50°	392.9	411.7	428.6	444.2	453.0	445.5	427.3	407.3	384.8	371.7	361.0
52.5°	380.4	403.6	422.3	427.3	438.6	434.2	420.5	398.6	377.3	366.0	357.3
55°	362.3	386.7	412.3	418.6	434.8	428.0	407.3	386.7	368.5	351.6	340.4
57.5°	355.4	379.2	404.2	412.3	422.3	411.1	406.1	384.2	355.4	346.6	329.1
60°	337.9	367.9	388.5	407.3	407.9	404.8	396.1	371.0	347.3	331.0	318.5
62.5°	324.1	352.3	368.5	386.0	396.7	387.9	379.2	356.0	330.4	312.2	297.8
65°	304.1	329.7	343.5	354.1	366.0	364.8	349.8	332.9	306.0	291.6	277.8
67.5°	273.4	295.9	314.7	324.7	332.2	330.4	319.1	307.2	279.7	265.3	255.3
70°	236.5	259.7	271.5	277.2	284.7	288.4	279.7	274.0	249.6	230.9	221.5
72.5°	190.2	205.2	222.7	227.7	230.9	233.4	233.4	228.4	203.3	195.8	179.6
75°	140.2	152.0	165.2	165.2	170.8	171.4	172.7	169.6	150.8	140.8	137.0
77.5°	95.1	103.9	114.5	118.9	122.6	122.0	121.4	112.6	102.6	98.2	94.5
80°	61.9	70.7	75.7	81.3	85.1	84.5	85.7	79.5	75.1	67.6	68.8
82.5°	36.9	43.8	48.8	55.7	55.7	57.6	57.6	55.7	51.3	47.6	47.6
85°	17.5	23.2	26.3	30.7	33.2	33.8	30.0	25.7	21.3	19.4	21.3
87.5°	3.1	4.4	6.3	5.6	6.9	6.3	6.3	6.3	6.3	5.0	5.6
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: P526910

CATALOG NUMBER: GALN-SA1D-827-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4
2.5°	1698.7	1730.0	1751.9	1788.2	1850.8	1900.8	1952.1	1990.3	1994.7	2005.9
5°	1436.6	1453.4	1509.1	1581.7	1633.0	1717.5	1771.9	1870.8	1907.7	1947.1
7.5°	1121.8	1149.4	1223.8	1272.6	1385.2	1491.0	1600.5	1722.5	1771.3	1776.9
10°	946.0	986.1	1036.7	1115.0	1176.3	1293.9	1430.3	1566.1	1620.5	1629.9
12.5°	830.9	882.2	949.8	1006.1	1064.9	1167.5	1298.3	1466.0	1536.7	1579.2
15°	720.2	773.3	847.8	926.0	977.9	1100.6	1254.5	1443.4	1535.4	1573.0
17.5°	606.3	655.7	717.0	801.5	906.0	1043.6	1247.6	1518.5	1619.3	1663.0
20°	508.7	536.2	607.5	694.5	825.3	985.4	1250.1	1629.3	1776.9	1796.3
22.5°	470.5	476.8	504.9	585.0	728.3	926.0	1294.5	1786.3	1954.0	2017.8
25°	441.1	439.9	447.4	501.2	657.6	902.9	1338.3	1930.8	2150.4	2219.9
27.5°	424.8	412.3	412.9	463.6	607.5	865.3	1394.6	2096.6	2373.2	2403.8
30°	416.7	414.2	406.7	427.3	553.1	809.0	1404.0	2259.9	2504.6	2549.0
32.5°	411.7	387.3	377.9	385.4	501.8	747.7	1439.1	2367.6	2667.3	2647.9
35°	386.7	364.8	358.5	366.0	465.5	713.3	1415.9	2461.4	2789.3	2821.8
37.5°	377.3	357.9	345.4	339.1	431.7	684.5	1404.0	2605.9	2907.5	2985.7
40°	368.5	347.9	332.9	326.6	405.4	646.3	1400.3	2717.3	3043.9	3090.8
42.5°	358.5	345.4	328.5	317.2	373.5	608.2	1357.1	2751.7	3085.8	3136.5
44°	355.4	335.4	317.8	314.1	361.0	588.8	1348.3	2783.0	3122.1	3199.1
45°	352.3	333.5	313.5	308.5	356.6	578.1	1336.4	2790.5	3182.2	3196.6
47.5°	343.5	331.6	312.2	298.4	347.3	555.0	1300.8	2748.0	3120.9	3123.4
50°	336.6	322.8	302.8	275.9	334.7	535.6	1317.0	2732.3	2973.2	2978.8
52.5°	329.1	308.5	297.2	250.9	314.1	519.3	1351.5	2803.0	2990.1	2988.9
55°	320.3	297.8	270.3	229.6	279.7	498.7	1434.7	2942.6	3146.5	3167.8
57.5°	306.6	287.2	247.8	210.9	240.3	459.2	1407.8	2675.4	2895.0	2898.8
60°	288.4	270.3	224.6	196.5	197.1	362.3	1258.9	2084.8	2284.3	2338.8
62.5°	270.9	260.9	205.2	175.8	167.7	288.4	1064.3	1732.5	1960.9	2005.9
65°	250.3	225.9	188.3	160.2	143.9	202.1	753.9	1294.5	1529.8	1590.5
67.5°	224.0	197.7	165.8	140.8	123.3	135.1	389.2	735.8	974.2	1009.8
70°	195.8	171.4	139.5	118.9	99.5	93.2	171.4	351.0	532.5	569.4
72.5°	160.8	138.3	111.4	93.9	74.5	64.4	57.6	93.9	189.0	219.6
75°	116.4	100.7	83.8	66.9	52.6	41.3	33.8	28.2	31.3	33.8
77.5°	85.7	73.2	61.9	47.6	36.9	29.4	23.2	17.5	16.9	16.3
80°	66.9	59.4	49.4	38.2	28.8	21.9	16.3	11.9	10.6	10.6
82.5°	52.6	48.8	40.7	31.3	23.8	17.5	11.9	8.1	6.9	6.9
85°	20.0	20.0	29.4	25.7	18.1	12.5	8.1	4.4	3.8	3.8
87.5°	5.0	5.0	5.0	5.0	4.4	3.8	3.8	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)