

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: P651185

Luminaire Tested: **GALN-SA1D-840-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651185
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-840-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 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: 4902.2 lumens
Efficiency: N/A
Efficacy: 75.4 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

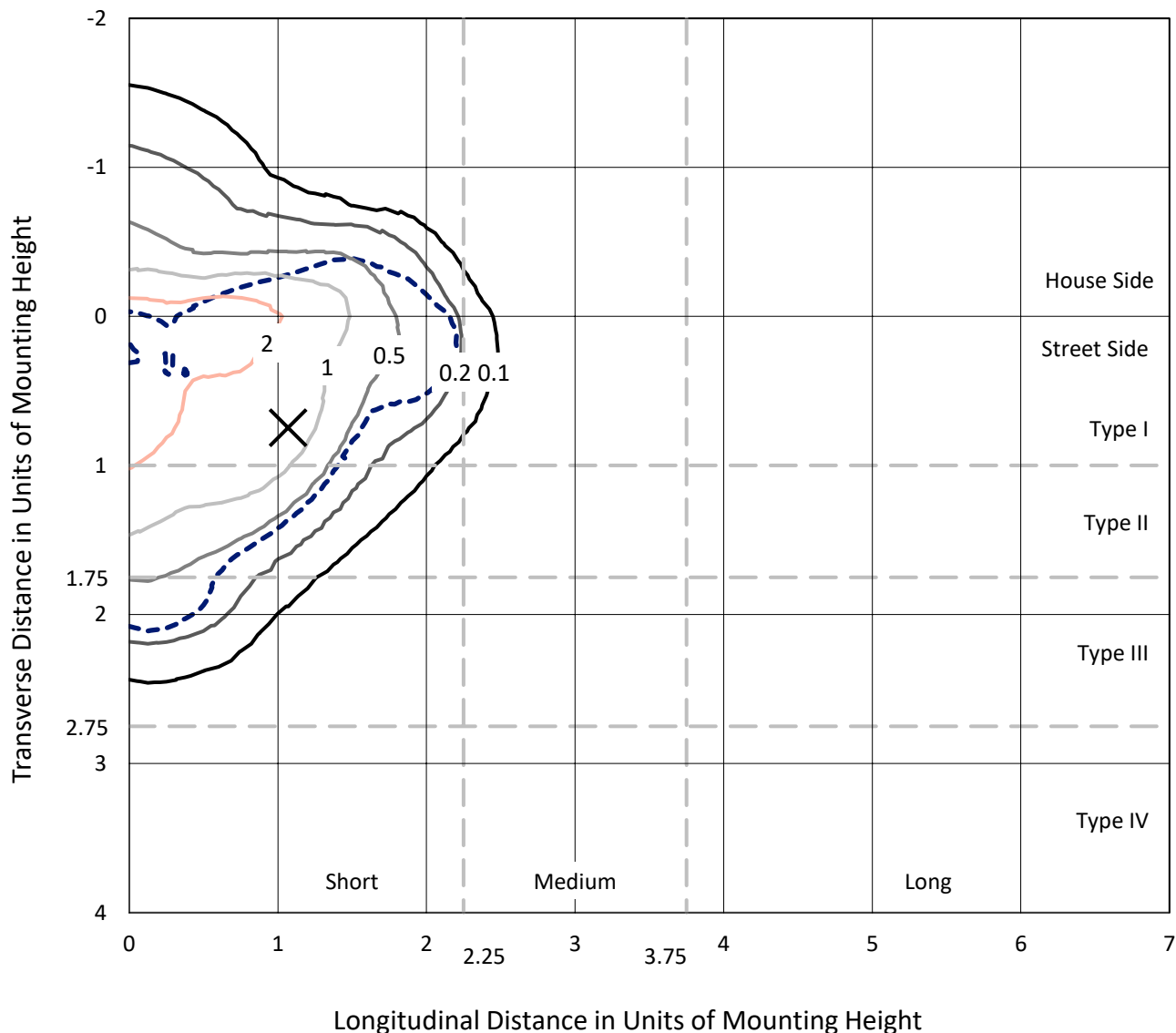
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

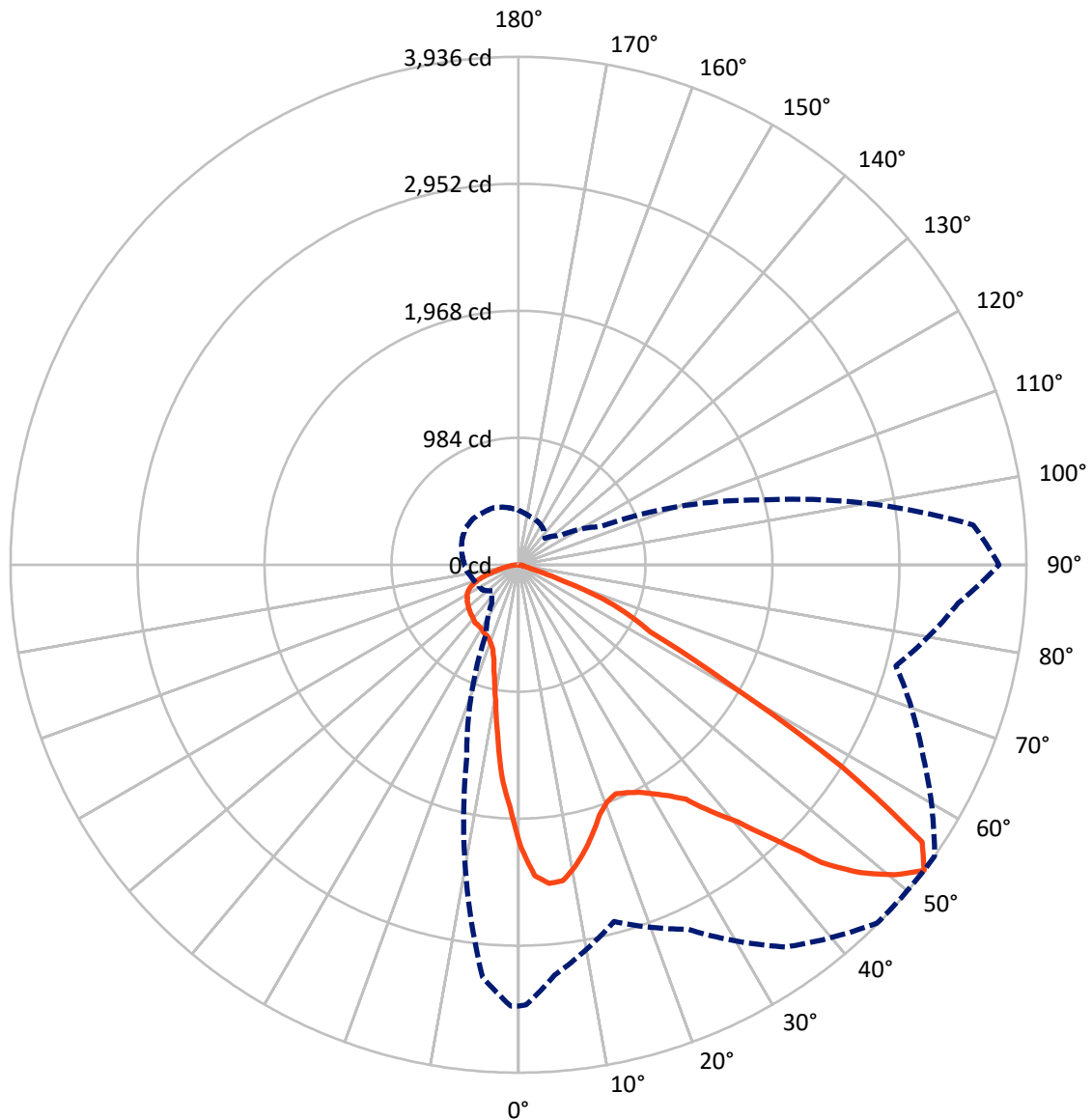
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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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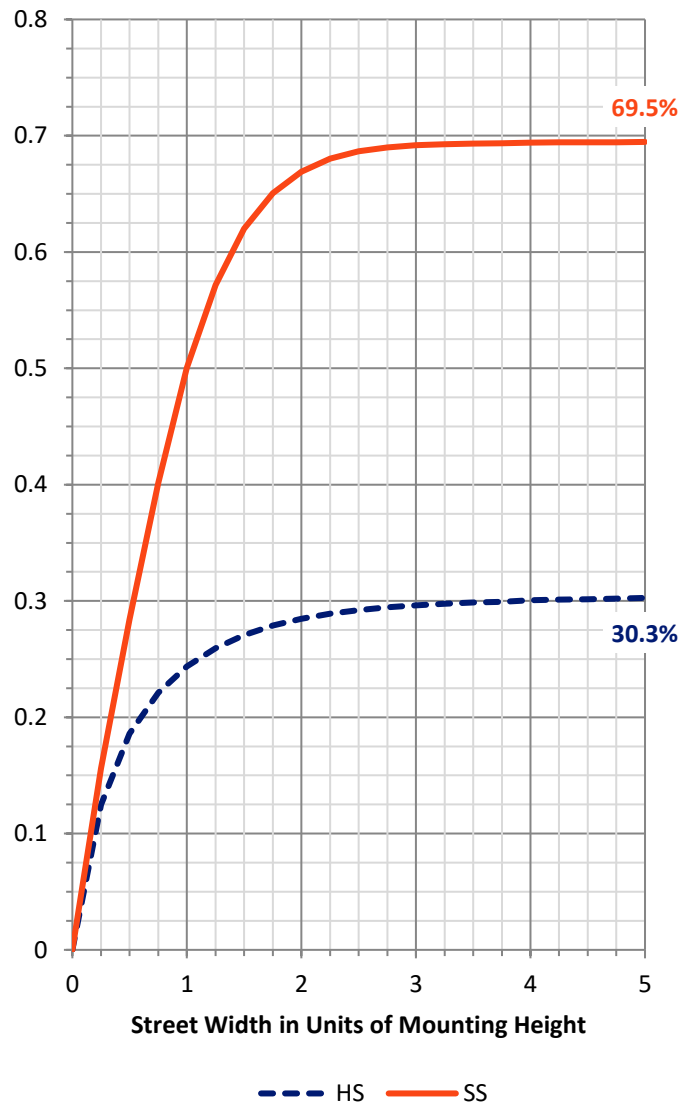
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1495.4	0.0	1495.4
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	3406.8	0.0	3406.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	4902.2	0.0	4902.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.1	3.4
10°-20°	360.2	7.3
20°-30°	546.2	11.1
30°-40°	789.2	16.1
40°-50°	1054.5	21.5
50°-60°	1177.1	24.0
60°-70°	645.7	13.2
70°-80°	139.6	2.8
80°-90°	22.6	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°	4902.2	100.0
0°-180°	4902.2	100.0

Coefficient of Utilization

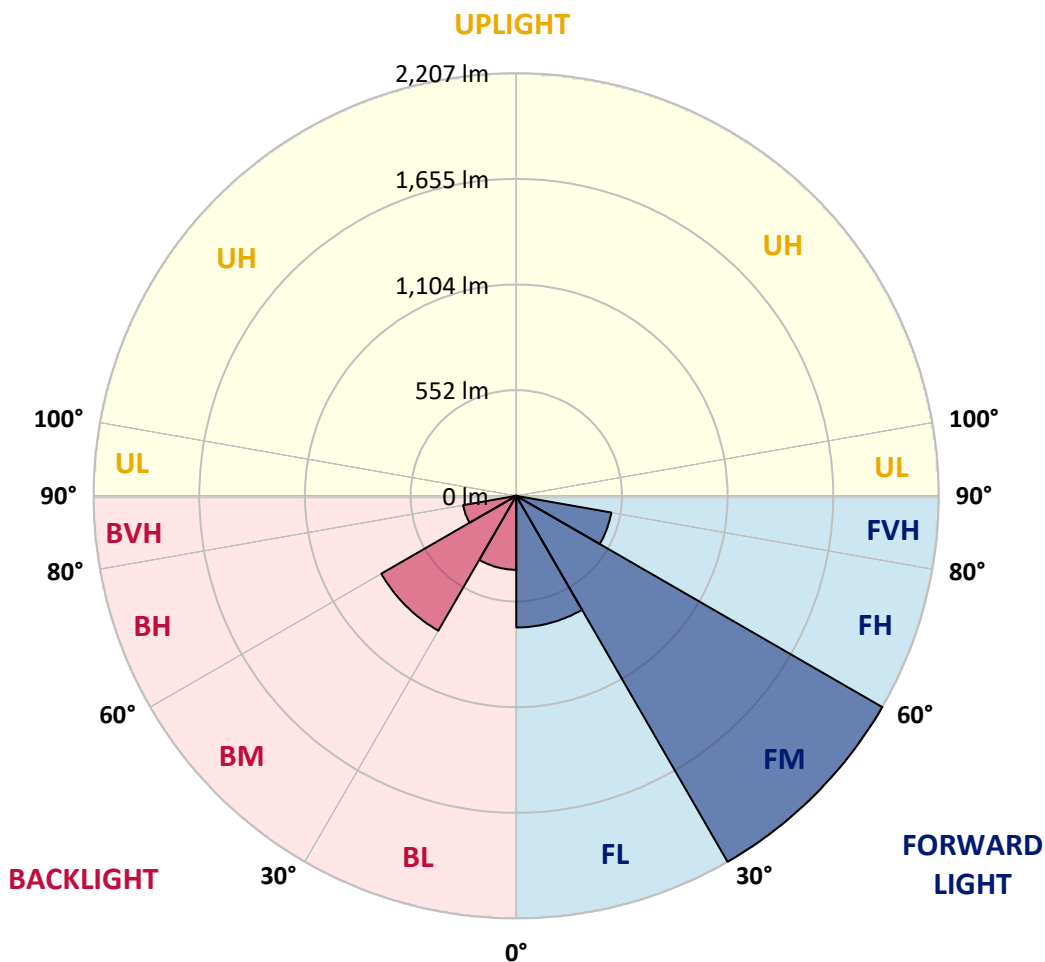


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	687.4	14.0			
FM (30°-60°)	2207.2	45.0			
FH (60°-80°)	503.8	10.3			G0/660
FVH (80°-90°)	8.4	0.2			G0/10
BL (0°-30°)	386.1	7.9	B1/500		
BM (30°-60°)	813.6	16.6	B1/1000		
BH (60°-80°)	281.5	5.7	B1/500		G1/500
BVH (80°-90°)	14.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8
2.5°	2294.8	2282.0	2293.4	2347.8	2379.3	2400.8	2414.3	2412.2	2360.7	2310.6	2310.6
5°	2227.6	2211.1	2234.7	2357.8	2481.6	2492.4	2510.3	2481.0	2405.1	2313.4	2199.0
7.5°	2032.9	2045.1	2084.4	2246.1	2407.2	2488.1	2509.5	2472.4	2349.2	2178.2	2010.0
10°	1864.7	1893.3	1984.2	2158.8	2307.0	2412.2	2435.9	2383.6	2286.3	2076.5	1926.2
12.5°	1806.6	1788.8	1889.7	2064.3	2206.1	2262.6	2273.4	2276.9	2211.1	2025.0	1841.7
15°	1799.5	1810.9	1889.7	2022.1	2109.5	2112.3	2130.2	2158.1	2166.8	2060.0	1881.1
17.5°	1902.6	1889.0	1969.9	2075.1	2033.5	1992.1	1996.4	2036.4	2107.3	2090.1	2004.9
20°	2055.1	2085.8	2149.5	2138.8	2027.1	1921.9	1922.6	1960.5	2100.1	2214.7	2177.4
22.5°	2308.5	2338.5	2385.7	2256.2	2027.1	1901.2	1876.8	1928.3	2146.0	2362.9	2372.1
25°	2539.7	2594.7	2607.6	2455.2	2128.7	1920.5	1904.7	1955.6	2191.7	2507.4	2595.5
27.5°	2750.1	2770.2	2826.7	2583.3	2185.3	1933.4	1931.9	1997.0	2249.8	2579.8	2795.1
30°	2916.2	2914.0	2946.2	2664.2	2275.5	2005.7	1936.2	2059.4	2325.6	2699.3	2979.8
32.5°	3029.3	3053.6	3121.6	2776.6	2313.4	2074.4	2020.0	2132.4	2418.0	2755.8	3110.1
35°	3228.3	3270.5	3184.6	2838.9	2433.7	2142.4	2078.7	2231.8	2463.8	2817.4	3269.7
37.5°	3415.8	3383.6	3296.2	2872.5	2511.7	2268.3	2209.0	2424.4	2606.2	2951.2	3375.7
40°	3536.1	3535.3	3380.0	2899.7	2566.8	2460.9	2457.3	2619.8	2780.9	3035.7	3494.5
42.5°	3588.3	3638.4	3414.4	2896.8	2682.8	2694.2	2766.6	2911.9	2904.7	3052.8	3491.7
44°	3659.9	3689.9	3473.8	2903.3	2760.1	2851.7	3022.0	3114.4	3012.8	3043.6	3488.0
45°	3657.0	3659.1	3389.3	2911.9	2825.9	2983.4	3135.9	3291.9	3108.0	3023.5	3535.3
47.5°	3573.2	3548.9	3317.7	2848.1	3031.4	3331.3	3472.3	3566.8	3225.4	2980.6	3476.6
50°	3407.9	3380.0	3143.7	2821.0	3074.4	3547.5	3742.2	3776.5	3332.0	2938.4	3418.7
52.5°	3419.3	3411.5	3193.2	2861.8	3117.3	3615.5	3927.6	3936.1	3453.0	3027.1	3419.3
55°	3624.0	3596.9	3334.9	2912.6	3085.8	3536.1	3809.5	3794.4	3412.2	2973.4	3482.3
57.5°	3316.3	3334.1	3138.8	2711.5	2700.7	2874.6	2994.9	2957.6	2847.5	2683.5	3239.7
60°	2675.6	2726.4	2745.1	2267.7	2037.9	1948.4	1912.6	1846.8	1865.3	2204.7	2846.0
62.5°	2294.8	2292.0	2408.6	2055.7	1334.9	1148.1	1131.0	1146.0	1360.7	2170.3	2787.3
65°	1819.6	1868.2	1904.0	1742.2	1056.5	852.5	851.8	947.0	1177.5	1813.8	2250.4
67.5°	1155.3	1219.0	1263.4	1114.5	706.5	607.0	590.6	705.1	816.0	1189.7	1355.0
70°	651.4	681.5	701.5	642.8	449.5	315.0	296.4	323.5	493.2	770.2	803.2
72.5°	251.2	264.8	292.1	294.2	169.6	101.7	82.3	98.8	207.6	304.9	290.6
75°	38.7	41.5	58.7	70.1	48.7	37.3	39.4	40.8	57.9	78.7	65.9
77.5°	18.6	18.6	17.9	20.8	24.3	26.5	28.6	31.5	34.4	37.9	36.5
80°	12.2	12.2	12.2	14.3	17.9	21.4	24.3	25.7	27.2	30.0	28.6
82.5°	7.9	7.9	7.9	10.8	14.3	17.9	19.3	22.9	25.7	30.0	27.9
85°	4.3	4.3	4.3	7.1	10.8	15.1	14.3	11.4	6.5	0.8	1.4
87.5°	1.4	1.4	1.4	1.4	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°	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8
2.5°	2250.4	2217.5	2214.7	2147.4	2087.3	2057.9	2034.3	1968.4	1982.7	1944.8	1944.1
5°	2141.7	2074.4	1965.6	1876.1	1786.6	1768.7	1690.7	1622.7	1624.9	1576.2	1584.8
7.5°	1946.2	1899.7	1767.3	1627.0	1508.2	1423.7	1350.0	1305.7	1249.1	1229.7	1219.7
10°	1822.4	1765.2	1616.2	1440.2	1307.1	1261.9	1191.1	1151.7	1093.7	1065.1	1045.0
12.5°	1768.0	1684.3	1498.2	1319.2	1230.5	1184.0	1123.8	1052.3	983.5	957.1	920.5
15°	1773.8	1673.5	1463.8	1270.5	1163.9	1073.7	1020.0	940.6	870.4	823.8	797.4
17.5°	1860.4	1738.7	1479.6	1233.3	1080.1	967.1	861.9	775.9	720.1	685.0	676.4
20°	2065.1	1899.7	1506.1	1173.2	996.4	855.4	725.8	636.3	593.4	592.7	593.4
22.5°	2235.5	2071.6	1559.7	1137.4	912.7	712.2	583.4	554.7	546.1	564.1	566.2
25°	2465.2	2264.8	1652.1	1118.8	835.4	607.0	527.6	516.8	516.1	539.0	539.7
27.5°	2700.7	2433.7	1707.1	1064.4	756.6	552.6	493.9	491.7	503.2	527.6	525.4
30°	2861.0	2575.4	1806.6	999.3	663.5	504.6	480.3	483.2	498.9	517.6	520.4
32.5°	3047.9	2715.0	1832.5	963.4	606.3	464.6	447.4	453.8	473.8	503.2	519.0
35°	3261.9	2813.8	1871.8	914.8	584.8	433.8	425.2	432.4	456.7	476.0	493.2
37.5°	3420.1	2988.4	1879.0	876.8	561.2	416.6	403.0	426.6	440.9	468.1	476.7
40°	3537.5	3115.1	1897.5	853.2	542.6	394.4	394.4	410.2	429.5	454.6	471.7
42.5°	3612.6	3207.5	1911.2	831.7	506.8	388.0	384.4	400.1	425.9	450.3	458.1
44°	3658.4	3246.8	1897.5	811.7	496.8	380.0	380.0	393.7	413.7	442.4	451.7
45°	3669.9	3296.2	1867.5	811.0	484.6	370.8	369.4	395.1	408.7	443.8	449.5
47.5°	3714.3	3357.1	1871.1	788.1	455.2	348.6	373.7	385.1	397.3	428.1	447.4
50°	3712.8	3395.0	1863.2	754.5	433.8	323.5	365.1	377.9	390.1	421.6	429.5
52.5°	3722.9	3536.7	1935.5	700.8	395.1	291.3	336.4	365.1	380.0	406.5	423.0
55°	3717.8	3617.6	2007.1	660.7	340.7	272.0	312.1	345.7	367.2	395.1	403.0
57.5°	3395.7	3197.5	1857.5	585.5	282.0	249.1	277.7	325.7	352.9	381.5	391.6
60°	2774.5	2464.5	1531.8	430.9	231.9	229.1	258.4	319.2	330.7	355.7	372.9
62.5°	2564.0	2161.7	1214.7	329.3	198.3	209.7	238.3	288.5	306.4	337.2	352.9
65°	2006.4	1435.9	752.3	222.6	174.7	188.2	215.5	252.6	282.0	310.7	329.3
67.5°	1188.2	784.5	372.2	156.0	152.5	166.8	194.7	222.6	256.3	287.8	297.0
70°	647.1	385.9	158.9	118.8	129.6	142.5	169.6	189.0	221.2	245.5	261.3
72.5°	207.6	117.4	79.5	88.1	98.8	113.8	130.3	153.9	176.8	191.2	204.0
75°	50.1	49.4	56.5	61.6	71.6	83.0	96.6	108.8	126.7	140.3	151.7
77.5°	35.1	37.9	43.6	50.8	54.4	58.7	67.3	76.6	84.4	94.4	101.7
80°	27.2	29.4	33.6	37.3	40.8	44.4	48.7	52.2	57.3	63.7	67.3
82.5°	25.7	27.2	31.5	33.6	32.2	31.5	34.4	35.8	36.5	38.7	40.8
85°	2.2	0.0	1.4	5.0	12.2	17.9	19.3	19.3	18.6	20.0	20.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.9	2.2
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°	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8
2.5°	1935.5	1911.2	1920.5	1931.9	1915.5	1877.5	1887.5	1883.3	1921.9	1919.1	1957.7
5°	1622.7	1584.8	1589.1	1644.9	1627.0	1646.3	1607.7	1602.7	1609.8	1613.4	1619.9
7.5°	1241.9	1236.9	1279.8	1327.1	1349.3	1326.3	1288.4	1279.8	1271.9	1256.2	1292.0
10°	1013.6	1015.0	1012.1	1047.9	1072.9	1068.0	1045.0	1042.2	1027.2	1021.5	1041.5
12.5°	904.7	885.4	876.2	864.7	884.0	896.9	886.8	879.7	880.4	887.6	890.5
15°	799.5	787.3	767.3	754.5	763.7	757.3	753.7	768.1	764.5	763.0	780.2
17.5°	681.5	691.5	690.0	675.7	687.9	682.9	682.1	672.1	658.5	648.5	654.2
20°	603.4	622.0	636.3	637.1	643.5	642.8	632.0	601.2	591.2	589.1	590.6
22.5°	575.5	585.5	602.7	627.0	627.0	615.6	602.7	566.9	557.6	547.6	543.3
25°	553.3	572.6	594.8	597.7	609.1	598.4	577.7	559.8	540.4	526.8	526.8
27.5°	541.9	563.3	579.8	584.8	600.6	592.0	570.5	547.6	524.7	523.9	511.8
30°	536.8	556.9	567.6	579.8	586.9	573.4	566.9	542.6	519.7	513.9	493.9
32.5°	521.8	550.4	570.5	567.6	573.4	567.6	558.3	538.2	512.5	499.6	497.5
35°	504.6	533.3	554.7	569.8	573.4	561.2	555.5	528.2	493.2	486.8	464.6
37.5°	495.3	512.5	539.0	563.3	568.3	561.9	542.6	514.7	479.6	472.4	453.1
40°	483.9	506.0	526.8	546.9	561.9	546.1	523.9	496.8	481.1	459.5	453.8
42.5°	475.2	500.3	517.6	539.7	556.9	536.1	510.4	491.7	469.5	455.2	438.7
44°	472.4	495.3	506.8	534.0	548.3	532.5	511.1	491.7	466.0	453.1	438.7
45°	462.4	493.9	506.0	530.4	542.6	529.7	502.5	483.2	464.6	448.8	433.8
47.5°	452.4	473.8	494.6	513.9	522.5	518.2	495.3	471.7	449.5	440.2	425.9
50°	449.5	471.0	490.3	508.2	518.2	509.6	488.9	466.0	440.2	425.2	413.0
52.5°	435.2	461.7	483.2	488.9	501.7	496.8	481.1	456.0	431.6	418.7	408.7
55°	414.4	442.4	471.7	478.9	497.5	489.6	466.0	442.4	421.6	402.3	389.4
57.5°	406.5	433.8	462.4	471.7	483.2	470.3	464.6	439.5	406.5	396.5	376.5
60°	386.5	420.9	444.5	466.0	466.7	463.1	453.1	424.5	397.3	378.6	364.3
62.5°	370.8	403.0	421.6	441.6	453.8	443.8	433.8	407.3	377.9	357.2	340.7
65°	347.8	377.2	393.0	405.1	418.7	417.3	400.1	380.8	350.0	333.5	317.8
67.5°	312.8	338.6	360.0	371.5	380.0	377.9	365.1	351.5	320.0	303.5	292.1
70°	270.5	297.0	310.7	317.1	325.7	330.0	320.0	313.5	285.6	264.2	253.4
72.5°	217.6	234.8	254.8	260.5	264.2	267.0	267.0	261.3	232.6	224.0	205.5
75°	160.4	173.9	189.0	189.0	195.4	196.1	197.6	194.0	172.5	161.1	156.8
77.5°	108.8	118.8	131.0	136.0	140.3	139.6	138.8	128.8	117.4	112.4	108.1
80°	70.9	80.9	86.6	93.0	97.4	96.6	98.1	90.9	85.9	77.3	78.7
82.5°	42.2	50.1	55.8	63.7	63.7	65.9	65.9	63.7	58.7	54.4	54.4
85°	20.0	26.5	30.0	35.1	37.9	38.7	34.4	29.4	24.3	22.2	24.3
87.5°	3.6	5.0	7.1	6.5	7.9	7.1	7.1	7.1	7.1	5.7	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: P651185

CATALOG NUMBER: GALN-SA1D-840-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8	2186.8
2.5°	1943.4	1979.2	2004.2	2045.7	2117.3	2174.6	2233.3	2276.9	2282.0	2294.8
5°	1643.5	1662.8	1726.5	1809.5	1868.2	1964.8	2027.1	2140.3	2182.5	2227.6
7.5°	1283.5	1314.9	1400.1	1455.9	1584.8	1705.7	1831.0	1970.5	2026.4	2032.9
10°	1082.3	1128.1	1186.1	1275.5	1345.7	1480.2	1636.3	1791.7	1853.9	1864.7
12.5°	950.6	1009.3	1086.6	1151.0	1218.3	1335.7	1485.3	1677.1	1758.0	1806.6
15°	823.8	884.7	969.9	1059.4	1118.8	1259.1	1435.2	1651.3	1756.6	1799.5
17.5°	693.6	750.2	820.3	916.9	1036.4	1194.0	1427.3	1737.3	1852.5	1902.6
20°	582.0	613.4	695.0	794.5	944.1	1127.4	1430.1	1863.9	2032.9	2055.1
22.5°	538.2	545.5	577.7	669.3	833.2	1059.4	1481.0	2043.6	2235.5	2308.5
25°	504.6	503.2	511.8	573.4	752.3	1032.9	1531.1	2209.0	2460.2	2539.7
27.5°	486.0	471.7	472.4	530.4	695.0	989.9	1595.5	2398.6	2715.0	2750.1
30°	476.7	473.8	465.2	488.9	632.8	925.5	1606.2	2585.5	2865.4	2916.2
32.5°	471.0	443.0	432.4	440.9	574.1	855.4	1646.3	2708.6	3051.4	3029.3
35°	442.4	417.3	410.2	418.7	532.5	816.0	1619.9	2815.9	3191.0	3228.3
37.5°	431.6	409.4	395.1	388.0	493.9	783.1	1606.2	2981.3	3326.3	3415.8
40°	421.6	398.0	380.8	373.7	463.8	739.4	1601.9	3108.7	3482.3	3536.1
42.5°	410.2	395.1	375.8	362.9	427.3	695.8	1552.6	3148.0	3530.3	3588.3
44°	406.5	383.7	363.6	359.4	413.0	673.6	1542.6	3183.9	3571.8	3659.9
45°	403.0	381.5	358.6	352.9	408.0	661.4	1528.9	3192.4	3640.5	3657.0
47.5°	393.0	379.4	357.2	341.4	397.3	634.9	1488.1	3143.7	3570.4	3573.2
50°	385.1	369.4	346.4	315.6	383.0	612.8	1506.7	3125.9	3401.4	3407.9
52.5°	376.5	352.9	340.0	287.0	359.4	594.1	1546.1	3206.7	3420.8	3419.3
55°	366.5	340.7	309.2	262.7	320.0	570.5	1641.3	3366.4	3599.7	3624.0
57.5°	350.8	328.6	283.4	241.2	274.8	525.4	1610.5	3060.7	3312.0	3316.3
60°	330.0	309.2	257.0	224.8	225.5	414.4	1440.2	2385.0	2613.4	2675.6
62.5°	309.9	298.5	234.8	201.2	191.8	330.0	1217.6	1982.1	2243.3	2294.8
65°	286.3	258.4	215.5	183.3	164.7	231.2	862.5	1481.0	1750.1	1819.6
67.5°	256.3	226.2	189.6	161.1	141.0	154.6	445.2	841.8	1114.5	1155.3
70°	224.0	196.1	159.6	136.0	113.8	106.6	196.1	401.6	609.1	651.4
72.5°	183.9	158.2	127.4	107.4	85.2	73.8	65.9	107.4	216.1	251.2
75°	133.1	115.2	96.0	76.6	60.1	47.3	38.7	32.2	35.8	38.7
77.5°	98.1	83.8	70.9	54.4	42.2	33.6	26.5	20.0	19.3	18.6
80°	76.6	68.0	56.5	43.6	33.0	25.1	18.6	13.6	12.2	12.2
82.5°	60.1	55.8	46.5	35.8	27.2	20.0	13.6	9.3	7.9	7.9
85°	22.9	22.9	33.6	29.4	20.8	14.3	9.3	5.0	4.3	4.3
87.5°	5.7	5.7	5.7	5.7	5.0	4.3	4.3	2.2	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)