

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: P458731

Luminaire Tested: **GALN-SA2D-735-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-735-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12492 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

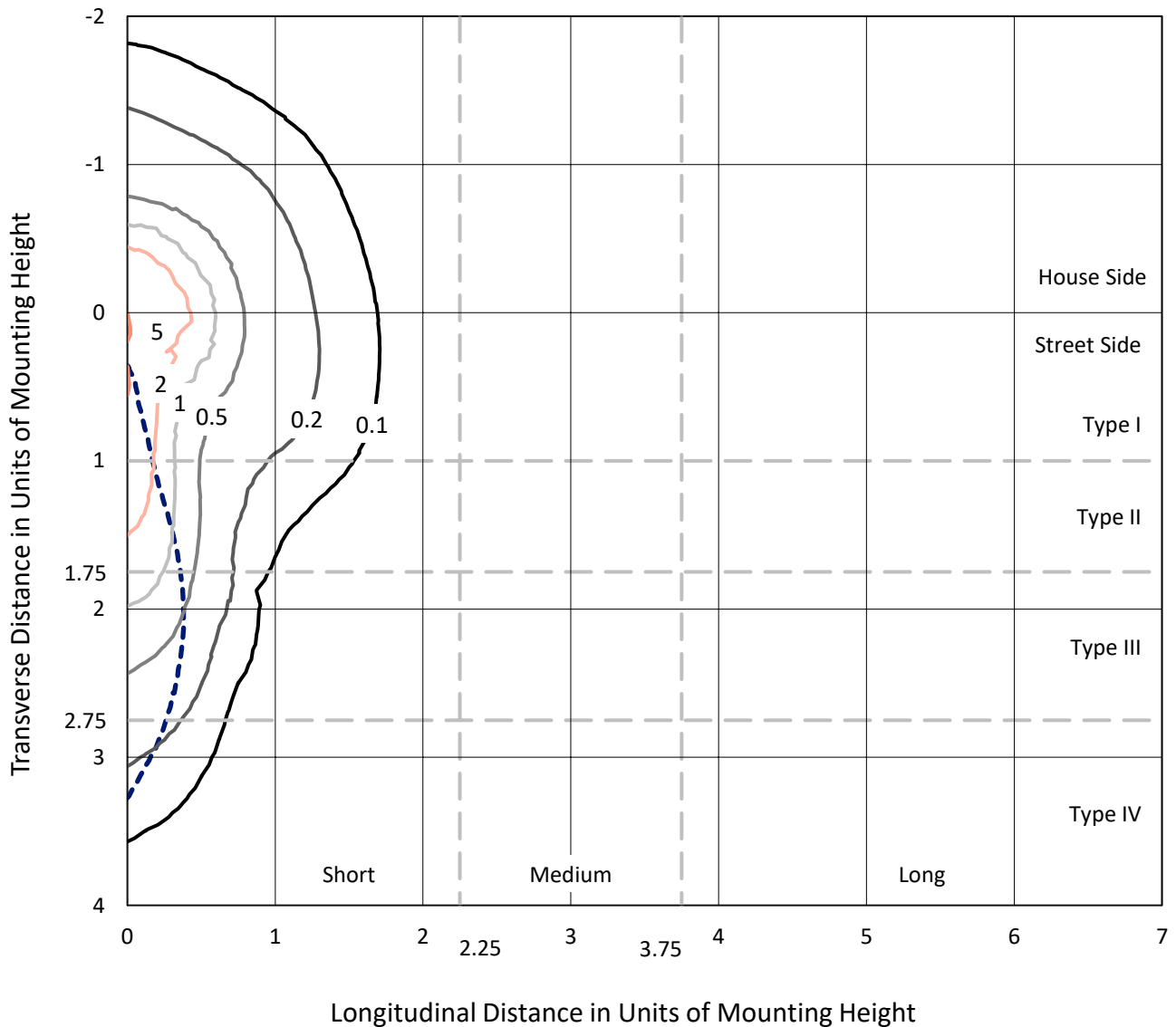
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

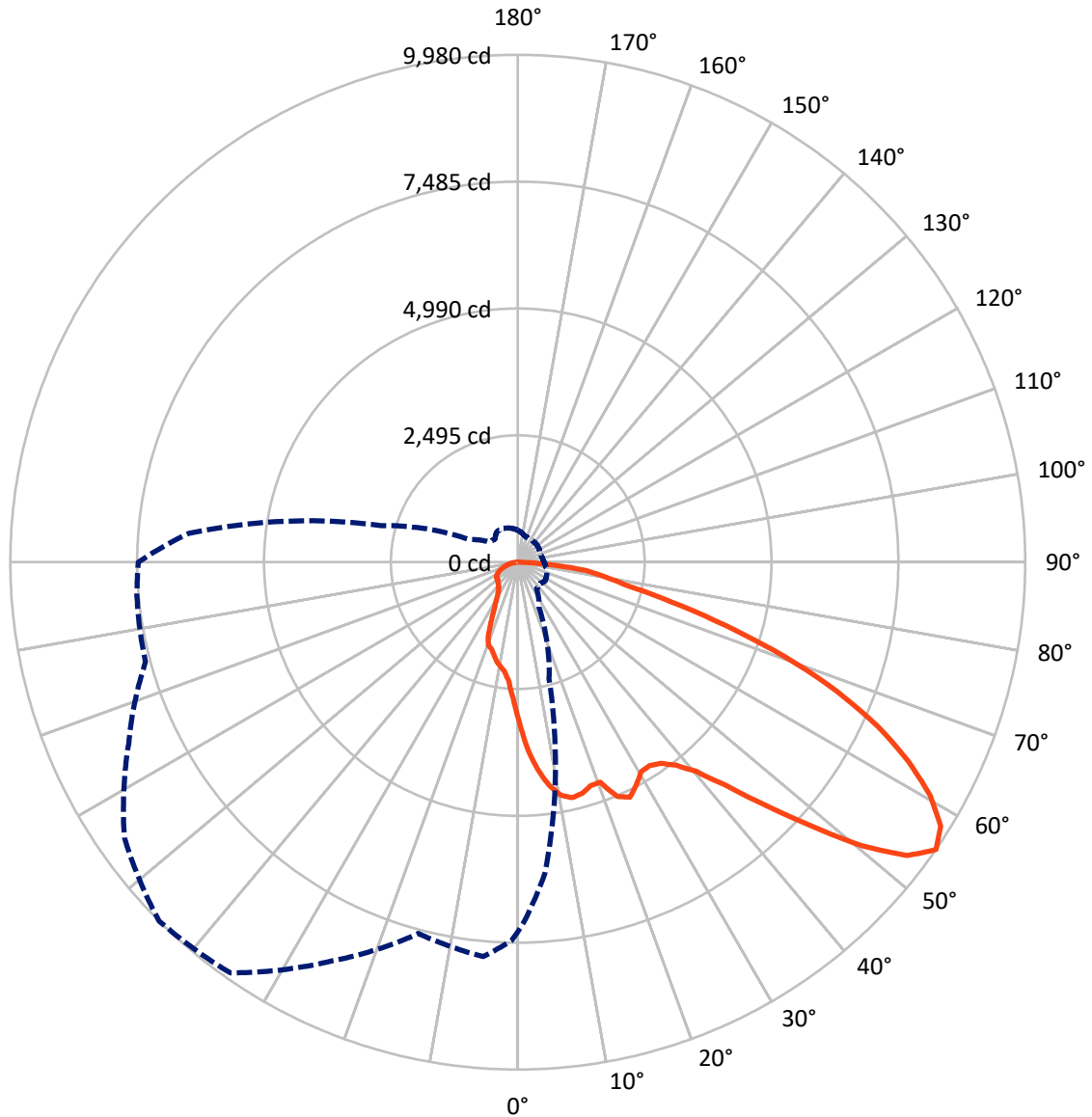
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2732.6	0.0	2732.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	9759.4	0.0	9759.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	12492.0	0.0	12492.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.7	2.1
10°-20°	704.9	5.6
20°-30°	1217.8	9.7
30°-40°	1415.2	11.3
40°-50°	1974.5	15.8
50°-60°	2679.2	21.4
60°-70°	2549.0	20.4
70°-80°	1377.0	11.0
80°-90°	308.6	2.5
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°	12492.0	100.0
0°-180°	12492.0	100.0

Coefficient of Utilization



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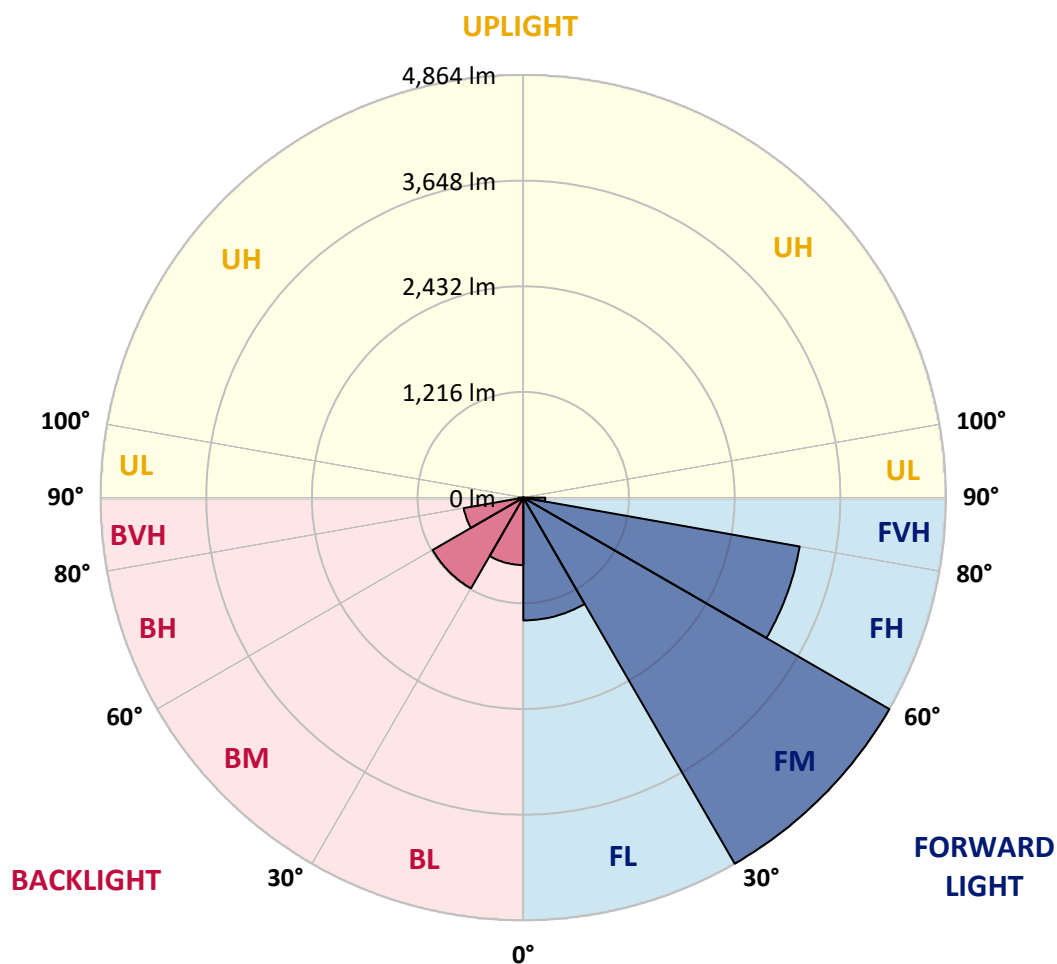
CATALOG NUMBER: GALN-SA2D-735-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1412.9	11.3			
FM	(30°-60°)	4864.1	38.9			
FH	(60°-80°)	3230.2	25.9			G2/5000
FVH	(80°-90°)	252.2	2.0			G3/500
BL	(0°-30°)	775.5	6.2	B2/1000		
BM	(30°-60°)	1204.9	9.6	B2/2500		
BH	(60°-80°)	695.8	5.6	B2/1000		G2/1000
BVH	(80°-90°)	56.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3135.0	3135.0	3135.0	3135.0	3135.0	3135.0	3135.0	3135.0	3135.0	3135.0	3135.0
2.5°	3482.8	3469.6	3432.5	3335.3	3237.2	3137.5	3060.8	2965.2	2865.5	2811.9	2743.5
5°	3530.6	3515.8	3428.4	3209.2	3010.6	2802.1	2635.6	2489.7	2430.4	2343.0	2273.0
7.5°	3418.5	3411.9	3280.9	2966.1	2694.1	2421.3	2232.6	2115.6	2009.2	1969.7	1977.9
10°	3316.3	3289.9	3125.9	2714.7	2397.4	2175.7	2040.6	1926.0	1851.0	1831.2	1835.3
12.5°	3231.4	3196.0	3002.3	2545.7	2268.0	2090.8	1918.6	1799.1	1730.7	1749.6	1813.9
15°	3214.1	3166.3	2950.4	2488.1	2197.1	1968.9	1780.1	1642.5	1591.4	1632.6	1735.6
17.5°	3326.2	3266.0	3039.4	2507.0	2129.6	1844.4	1612.8	1455.4	1412.6	1478.5	1612.8
20°	3686.3	3597.3	3317.1	2616.6	2123.0	1782.6	1515.6	1357.3	1375.5	1500.7	1640.8
22.5°	4352.2	4218.7	3803.4	2776.5	2157.6	1766.9	1495.8	1413.4	1513.1	1619.4	1711.7
25°	4484.1	4379.4	3890.7	2812.8	2150.2	1756.2	1551.8	1593.1	1704.3	1757.1	1724.9
27.5°	4558.3	4438.8	3885.0	2633.1	1922.7	1593.1	1483.4	1551.8	1579.9	1528.8	1441.4
30°	4731.4	4606.9	3983.0	2444.4	1583.2	1181.8	1035.9	1007.9	1026.9	1036.8	1005.4
32.5°	4969.5	4846.7	4167.6	2320.8	1368.9	977.4	834.0	794.5	785.4	774.7	762.3
35°	5277.8	5089.0	4349.0	2241.6	1280.7	904.1	772.2	741.7	729.4	714.5	701.3
37.5°	5590.9	5393.1	4578.1	2158.4	1222.2	853.0	731.0	717.0	695.6	679.9	661.0
40°	5923.9	5702.2	4786.6	2085.9	1165.3	820.0	701.3	699.7	671.7	653.5	631.3
42.5°	6212.3	5984.0	4972.8	2041.4	1121.6	785.4	683.2	688.2	659.3	632.1	603.3
45°	6441.4	6217.3	5145.1	2041.4	1086.2	750.8	679.9	676.6	647.8	614.0	581.0
47.5°	6642.5	6410.9	5313.2	2093.3	1064.0	721.9	661.8	667.5	637.9	595.0	562.9
50°	6798.3	6593.9	5539.8	2174.1	1041.7	698.9	638.7	670.0	629.6	585.1	548.0
52.5°	6996.9	6813.9	5812.6	2284.5	1022.7	673.3	618.1	670.0	628.8	586.0	545.6
55°	7272.2	7079.3	6141.4	2376.0	992.3	649.4	600.0	651.1	626.3	581.8	539.0
57.5°	7465.0	7320.8	6373.8	2437.0	948.6	618.9	583.5	632.9	615.6	566.2	519.2
58°	7474.1	7333.1	6407.6	2451.0	937.9	613.2	579.4	624.7	610.7	559.6	512.6
60°	7370.2	7249.1	6414.2	2431.2	876.9	584.3	557.9	590.9	584.3	520.9	477.2
62.5°	6992.8	6863.4	6148.0	2270.5	796.1	548.9	525.0	545.6	530.7	466.5	426.1
65°	6456.3	6218.1	5600.8	2018.3	738.4	511.0	480.5	482.1	466.5	420.3	384.9
67.5°	5741.7	5475.5	4742.1	1701.0	694.7	468.9	427.7	423.6	404.6	375.0	346.1
70°	4862.4	4680.3	3853.6	1383.7	646.1	422.8	368.4	365.9	354.4	332.1	306.6
72.5°	3941.0	3709.4	3111.9	1107.6	586.8	378.3	313.2	318.1	303.3	287.6	264.5
75°	2908.4	2756.7	2405.6	888.4	506.8	329.7	261.3	262.9	256.3	239.8	221.7
77.5°	1915.3	1870.0	1720.8	583.5	389.8	262.1	213.5	215.1	210.2	195.3	176.4
80°	1288.9	1258.5	1166.1	375.8	260.4	189.6	164.8	166.5	165.7	150.0	124.4
82.5°	794.5	781.3	751.6	253.8	180.5	136.0	108.8	113.7	122.8	105.5	84.9
85°	375.0	375.8	454.1	138.5	106.3	87.4	59.3	63.5	63.5	63.5	47.8
87.5°	48.6	51.1	62.6	58.5	38.7	33.0	21.4	18.1	15.7	20.6	14.8
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°	3135.0	3135.0	3135.0	3135.0	3135.0	3135.0	3135.0	3135.0	3135.0	3135.0	3135.0
2.5°	2719.6	2703.2	2667.7	2659.5	2654.5	2668.5	2631.5	2641.3	2624.9	2671.0	2663.6
5°	2277.1	2278.7	2307.6	2326.5	2333.1	2326.5	2301.8	2259.0	2226.0	2212.8	2216.1
7.5°	1962.3	1991.1	2040.6	2095.8	2146.0	2160.9	2146.9	2065.3	1976.3	1920.2	1902.1
10°	1857.6	1896.3	1953.2	1996.9	2041.4	2076.8	2084.2	2020.8	1915.3	1782.6	1730.7
12.5°	1863.4	1916.1	1970.5	1984.5	1980.4	1994.4	1987.8	1977.1	1907.9	1738.9	1652.4
15°	1809.0	1871.6	1909.5	1902.1	1888.9	1876.6	1859.2	1832.0	1807.3	1688.6	1593.1
17.5°	1683.7	1748.0	1779.3	1781.8	1781.8	1778.5	1736.4	1726.6	1723.3	1665.6	1607.1
20°	1706.8	1742.2	1728.2	1705.1	1711.7	1734.0	1709.3	1704.3	1723.3	1748.8	1738.1
22.5°	1720.0	1707.6	1602.1	1499.9	1476.8	1546.1	1560.1	1615.3	1691.9	1784.2	1844.4
25°	1638.4	1538.7	1349.9	1234.6	1169.4	1233.7	1317.8	1420.0	1534.5	1653.2	1723.3
27.5°	1369.7	1293.9	1158.7	1054.9	998.0	1007.9	1079.6	1172.7	1279.1	1359.0	1410.1
30°	1031.8	998.0	928.0	892.5	857.9	849.7	880.2	915.6	962.6	972.5	985.7
32.5°	759.9	754.9	759.0	747.5	740.9	740.1	731.0	739.2	744.2	750.0	738.4
35°	687.3	680.7	669.2	665.9	661.8	663.4	659.3	655.2	658.5	663.4	666.7
37.5°	650.2	640.4	623.9	618.1	618.1	620.6	614.0	612.3	618.1	633.8	642.0
40°	621.4	609.9	590.9	583.5	588.4	595.0	586.0	582.7	596.7	613.2	626.3
42.5°	594.2	585.1	567.0	558.8	562.9	575.2	562.1	559.6	577.7	595.8	611.5
45°	571.1	562.1	545.6	541.5	543.1	554.6	545.6	545.6	562.9	582.7	596.7
47.5°	553.0	541.5	530.7	527.4	529.1	535.7	534.0	534.0	550.5	571.1	585.1
50°	534.9	525.0	511.0	512.6	516.7	525.8	525.0	527.4	543.9	569.5	584.3
52.5°	526.6	511.8	496.1	497.8	510.1	520.9	517.6	520.0	539.0	586.8	608.2
55°	517.6	497.8	479.6	482.1	496.1	511.8	507.7	511.0	533.2	598.3	628.0
57.5°	500.2	477.2	457.4	459.0	479.6	496.1	489.5	493.7	520.0	586.0	617.3
58°	492.8	473.1	454.1	454.9	474.7	492.8	485.4	488.7	515.9	582.7	612.3
60°	461.5	450.0	433.5	434.3	453.3	468.9	464.8	468.1	494.5	558.8	581.0
62.5°	418.7	412.1	407.9	407.9	419.5	434.3	438.4	442.6	466.5	505.2	525.0
65°	372.5	372.5	373.3	373.3	380.7	399.7	402.2	412.9	435.1	454.1	468.9
67.5°	341.2	339.5	341.2	337.1	340.4	351.9	364.3	374.2	397.2	410.4	415.4
70°	300.8	300.0	300.8	295.0	299.2	309.1	317.3	333.8	357.7	367.6	370.0
72.5°	261.3	261.3	262.9	258.8	258.8	269.5	275.3	293.4	315.6	321.4	322.2
75°	220.0	222.5	222.5	216.7	218.4	225.0	232.4	247.2	267.8	272.0	272.0
77.5°	174.7	183.8	183.8	178.0	180.5	181.3	191.2	198.6	214.3	215.9	209.3
80°	126.9	136.0	143.4	138.5	142.6	137.6	143.4	148.3	164.0	156.6	145.9
82.5°	90.7	97.2	103.0	103.8	99.7	90.7	98.1	98.9	106.3	96.4	90.7
85°	50.3	56.0	63.5	60.2	53.6	47.8	50.3	51.9	51.1	48.6	45.3
87.5°	13.2	14.0	15.7	11.5	10.7	9.1	12.4	12.4	14.0	14.8	14.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3135.0	3135.0	3135.0	3135.0	3135.0	3135.0	3135.0	3135.0	3135.0	3135.0	3135.0
2.5°	2669.4	2705.6	2783.9	2843.3	2915.8	3004.0	3107.8	3212.5	3325.4	3360.8	3410.3
5°	2208.7	2299.3	2337.2	2445.2	2552.3	2713.0	2884.5	3083.1	3300.7	3405.3	3505.9
7.5°	1887.3	1935.9	1975.4	2054.6	2183.1	2378.4	2593.5	2841.6	3149.8	3302.3	3449.8
10°	1714.2	1719.1	1767.8	1865.8	1977.9	2150.2	2353.7	2631.5	2975.1	3160.6	3333.6
12.5°	1599.6	1578.2	1631.0	1733.2	1860.1	2019.1	2206.2	2470.8	2849.0	3039.4	3248.7
15°	1499.1	1465.3	1504.9	1609.5	1734.8	1921.9	2123.0	2403.2	2799.6	3021.3	3253.7
17.5°	1501.6	1408.4	1422.5	1510.6	1635.1	1825.5	2069.4	2400.7	2874.6	3130.1	3405.3
20°	1687.0	1537.8	1474.4	1490.9	1611.2	1818.9	2094.1	2516.1	3121.0	3493.5	3787.7
22.5°	1869.1	1779.3	1677.1	1643.3	1709.3	1926.8	2251.5	2788.9	3656.7	4217.9	4749.5
25°	1805.7	1882.3	1856.8	1809.0	1823.8	2004.3	2358.7	3013.0	4072.9	4705.0	5204.4
27.5°	1444.7	1584.0	1612.0	1611.2	1617.0	1765.3	2121.3	2862.2	4124.8	4798.1	5275.3
30°	1015.3	1027.7	1042.5	1071.4	1097.7	1230.4	1659.8	2512.8	4101.7	4840.1	5318.1
32.5°	732.7	749.1	769.7	809.3	871.9	1040.9	1452.1	2401.5	4223.7	5014.0	5443.4
35°	670.0	689.0	708.8	754.1	813.4	970.0	1369.7	2355.4	4423.9	5295.9	5668.4
37.5°	650.2	671.7	689.0	721.9	769.7	918.9	1294.7	2324.1	4629.2	5594.2	5970.0
40°	636.2	661.0	675.0	701.3	734.3	871.9	1228.0	2299.3	4827.8	5867.0	6212.3
42.5°	623.9	649.4	667.5	686.5	713.7	829.9	1168.6	2274.6	5000.0	6131.6	6453.8
45°	609.0	641.2	664.3	679.1	703.0	794.5	1123.3	2254.8	5196.2	6366.4	6697.7
47.5°	596.7	632.1	661.0	678.3	687.3	769.7	1087.0	2282.0	5431.9	6612.0	6924.4
50°	597.5	631.3	667.5	694.7	670.8	749.1	1064.8	2390.0	5738.4	6903.8	7103.2
52.5°	623.9	665.1	693.9	700.5	647.8	724.4	1053.2	2578.7	6101.1	7161.7	7283.7
55°	653.5	696.4	727.7	723.6	635.4	693.1	1050.8	2779.8	6498.3	7462.5	7518.6
57.5°	642.8	705.5	753.3	731.8	636.2	662.6	1040.1	2942.2	6830.4	7687.5	7751.0
58°	639.5	702.2	756.6	730.2	633.8	653.5	1037.6	2956.2	6876.6	7703.2	7783.9
60°	607.4	673.3	754.1	717.8	619.7	628.8	1010.4	3001.5	6864.2	7622.4	7803.7
62.5°	548.9	603.3	697.2	657.7	576.9	595.8	949.4	2945.5	6529.6	7233.4	7514.4
65°	482.9	523.3	586.0	578.5	515.9	562.1	866.2	2723.8	5859.6	6602.1	6898.0
67.5°	433.5	466.5	506.0	495.3	464.0	516.7	776.3	2348.8	5108.0	5843.9	6216.4
70°	383.2	408.8	428.5	421.1	411.2	472.2	696.4	1906.2	4387.7	5123.6	5484.6
72.5°	332.1	356.0	372.5	361.8	356.0	425.3	631.3	1479.3	3465.5	4227.0	4691.0
75°	277.7	301.6	313.2	300.8	297.5	375.0	534.9	1105.2	2600.1	3258.6	3659.2
77.5°	215.1	240.6	255.5	251.4	253.0	308.2	431.8	756.6	1859.2	2221.0	2643.0
80°	150.8	178.8	188.7	184.6	196.1	234.9	304.9	480.5	1282.4	1441.4	1738.9
82.5°	93.1	119.5	121.1	125.3	133.5	173.9	229.9	292.6	805.2	832.4	1048.3
85°	47.0	56.9	61.0	67.6	75.0	106.3	131.0	181.3	518.4	392.3	586.0
87.5°	15.7	16.5	19.8	24.7	30.5	43.7	56.0	74.2	128.6	70.9	181.3
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: P458731

CATALOG NUMBER: GALN-SA2D-735-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3135.0	3135.0	3135.0	3135.0	3135.0	3135.0	3135.0	3135.0	3135.0	3135.0
2.5°	3510.0	3580.0	3631.1	3678.1	3632.8	3628.7	3584.2	3512.5	3482.8	3482.8
5°	3716.8	3880.8	4013.5	4098.4	4062.2	3974.8	3830.6	3646.8	3547.9	3530.6
7.5°	3773.7	4097.6	4344.0	4431.4	4370.4	4177.5	3901.4	3591.6	3449.8	3418.5
10°	3739.1	4160.2	4522.0	4660.5	4575.6	4283.8	3907.2	3527.3	3352.6	3316.3
12.5°	3702.8	4168.5	4555.0	4755.3	4700.0	4369.6	3949.2	3485.3	3283.3	3231.4
15°	3729.2	4171.8	4514.6	4721.5	4756.9	4472.6	4018.5	3515.8	3269.3	3214.1
17.5°	3895.7	4234.4	4456.9	4624.2	4748.7	4612.7	4215.4	3661.6	3394.6	3326.2
20°	4243.5	4384.4	4489.9	4619.3	4819.5	4898.6	4618.4	4062.2	3746.5	3686.3
22.5°	5250.6	5225.0	5009.1	5006.6	5296.7	5614.0	5595.0	4876.4	4401.7	4352.2
25°	5628.0	5509.3	5197.0	5121.2	5248.9	5738.4	5667.6	5042.9	4604.4	4484.1
27.5°	5480.5	5186.3	4981.1	4963.8	4921.7	5384.1	5554.7	5110.5	4675.3	4558.3
30°	5471.4	5038.8	4745.4	4780.0	4820.4	5262.1	5617.3	5322.3	4856.6	4731.4
32.5°	5493.7	5059.4	4762.7	4769.3	4889.6	5280.2	5686.5	5553.0	5094.8	4969.5
35°	5583.5	5176.4	4873.1	4857.4	5045.3	5398.9	5804.4	5915.6	5420.3	5277.8
37.5°	5728.6	5409.6	5075.0	5070.9	5343.7	5613.2	5951.1	6281.5	5744.2	5590.9
40°	5942.0	5682.4	5434.3	5412.1	5749.2	5961.8	6141.4	6671.4	6120.8	5923.9
42.5°	6200.0	6009.6	5908.2	5996.4	6320.3	6353.2	6438.1	7031.5	6441.4	6212.3
45°	6439.0	6429.9	6570.8	6804.9	6993.6	6795.8	6748.0	7273.0	6690.3	6441.4
47.5°	6723.3	6968.9	7394.1	7737.0	7934.8	7310.9	7012.6	7430.4	6871.6	6642.5
50°	7011.7	7614.2	8293.3	8771.3	8813.3	7870.5	7194.7	7578.7	7036.5	6798.3
52.5°	7315.0	8129.3	9033.3	9588.8	9507.2	8357.5	7371.1	7679.3	7206.2	6996.9
55°	7578.7	8444.9	9447.0	9980.3	9860.8	8654.2	7561.4	7788.1	7448.5	7272.2
57.5°	7726.3	8471.3	9344.0	9809.7	9680.3	8596.5	7648.8	7868.8	7603.5	7465.0
58°	7747.7	8435.8	9252.5	9710.8	9578.9	8547.9	7648.0	7865.5	7613.3	7474.1
60°	7728.7	8205.9	8912.2	9320.1	9181.7	8243.0	7616.6	7803.7	7488.1	7370.2
62.5°	7553.2	7807.0	8324.6	8621.3	8581.7	7766.6	7488.1	7570.5	7106.5	6992.8
65°	7322.4	7263.1	7572.1	7782.3	7812.0	7409.8	7360.3	7066.1	6617.0	6456.3
67.5°	7042.2	6646.6	6645.8	6765.3	6814.8	6860.9	7094.1	6518.1	5911.5	5741.7
70°	6566.7	5696.4	5434.3	5575.3	5534.1	5923.9	6618.6	5748.3	5061.0	4862.4
72.5°	5694.8	4520.4	4100.9	4282.2	4178.4	4645.6	5791.2	4730.5	4185.0	3941.0
75°	4616.0	3381.4	2948.7	3115.2	3050.9	3524.0	4818.7	3435.8	3001.5	2908.4
77.5°	3584.2	2450.1	2198.8	2175.7	2223.5	2622.4	3534.7	2319.9	1978.7	1915.3
80°	2302.6	1753.8	1768.6	1738.9	1763.6	1653.2	2146.0	1480.1	1340.0	1288.9
82.5°	1515.6	1222.2	1457.1	1345.0	1277.4	1111.8	1407.6	969.2	822.5	794.5
85°	1032.6	900.0	819.2	626.3	737.6	856.3	1055.7	521.7	413.7	375.0
87.5°	466.5	313.2	229.9	141.8	224.2	258.8	512.6	61.0	47.0	48.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)