

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: P646846

Luminaire Tested: **GALN-SA3C-835-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646846  
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-SA3C-835-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 1050mA 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: 14165.2 lumens  
Efficiency: N/A  
Efficacy: 88.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

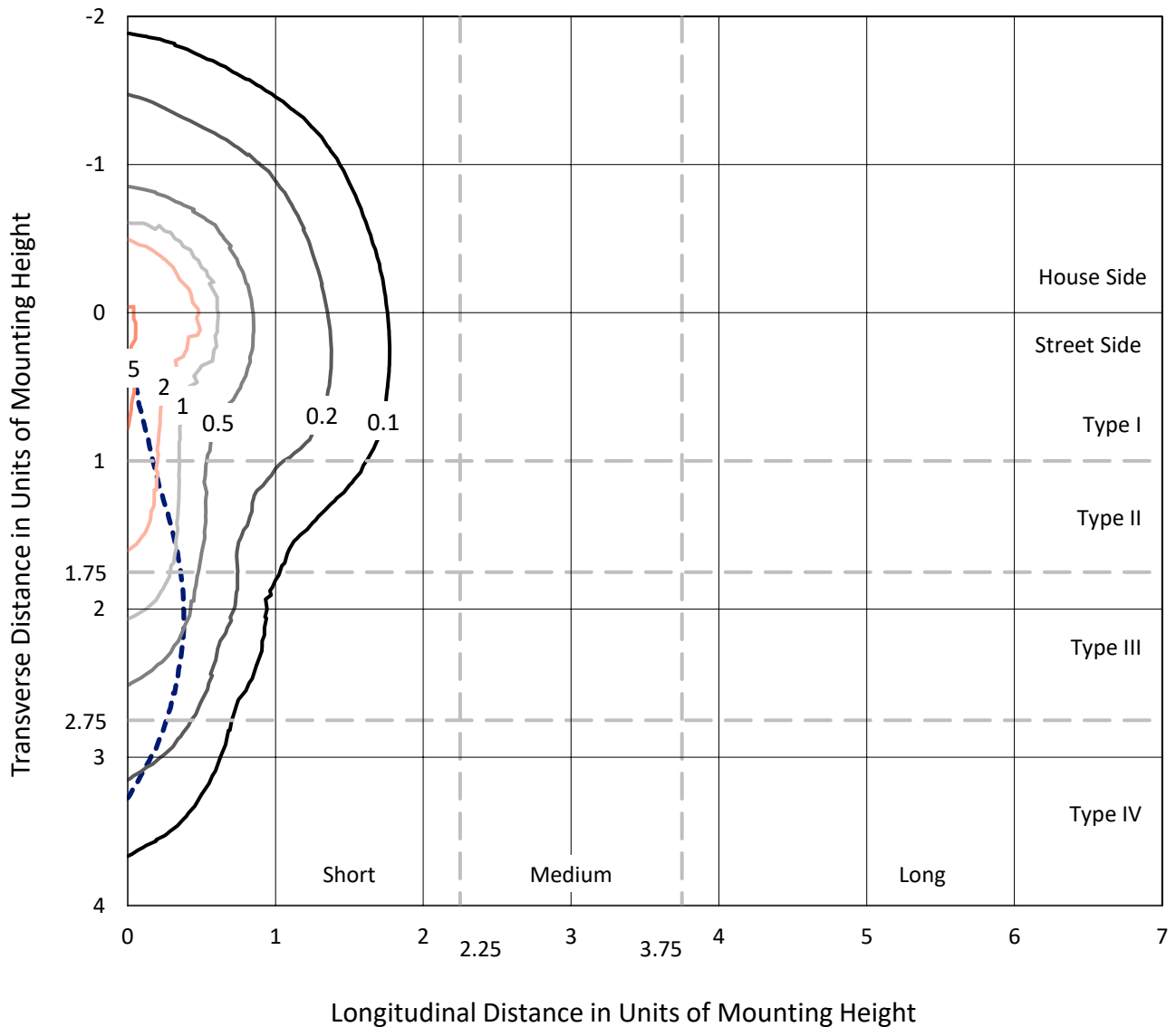
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

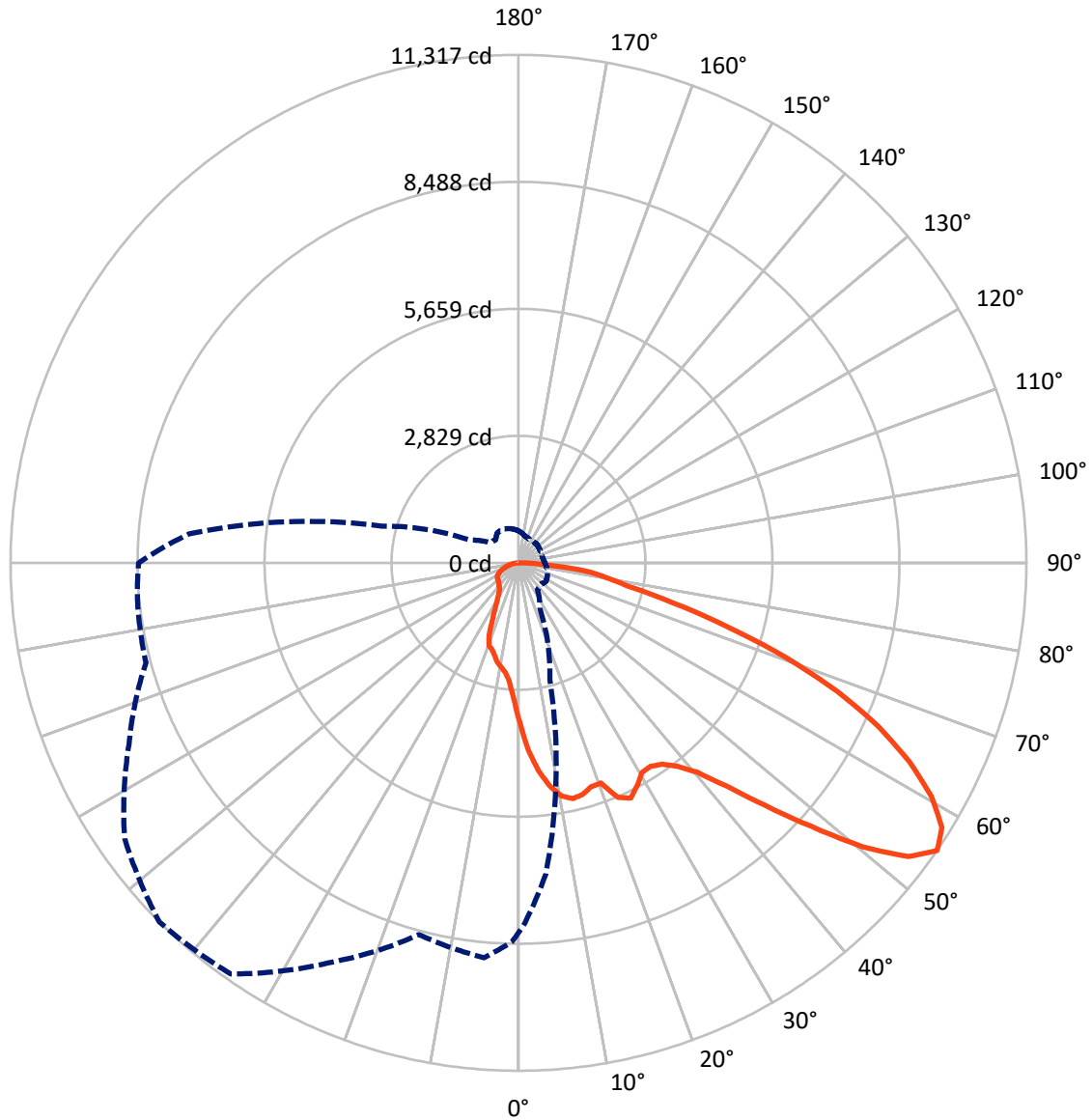
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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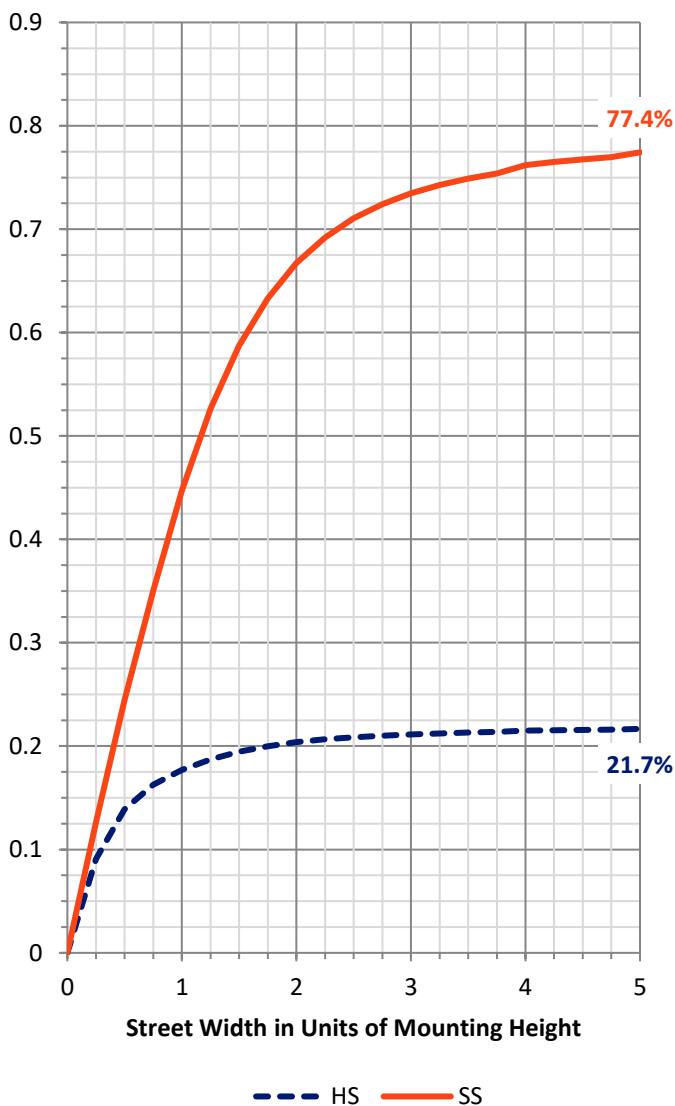
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3098.6	0.0	3098.6
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	11066.7	0.0	11066.7
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	14165.2	0.0	14165.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	301.3	2.1
10°-20°	799.3	5.6
20°-30°	1380.9	9.7
30°-40°	1604.8	11.3
40°-50°	2239.0	15.8
50°-60°	3038.1	21.4
60°-70°	2890.4	20.4
70°-80°	1561.5	11.0
80°-90°	350.0	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°	14165.2	100.0
0°-180°	14165.2	100.0

**Coefficient of Utilization**



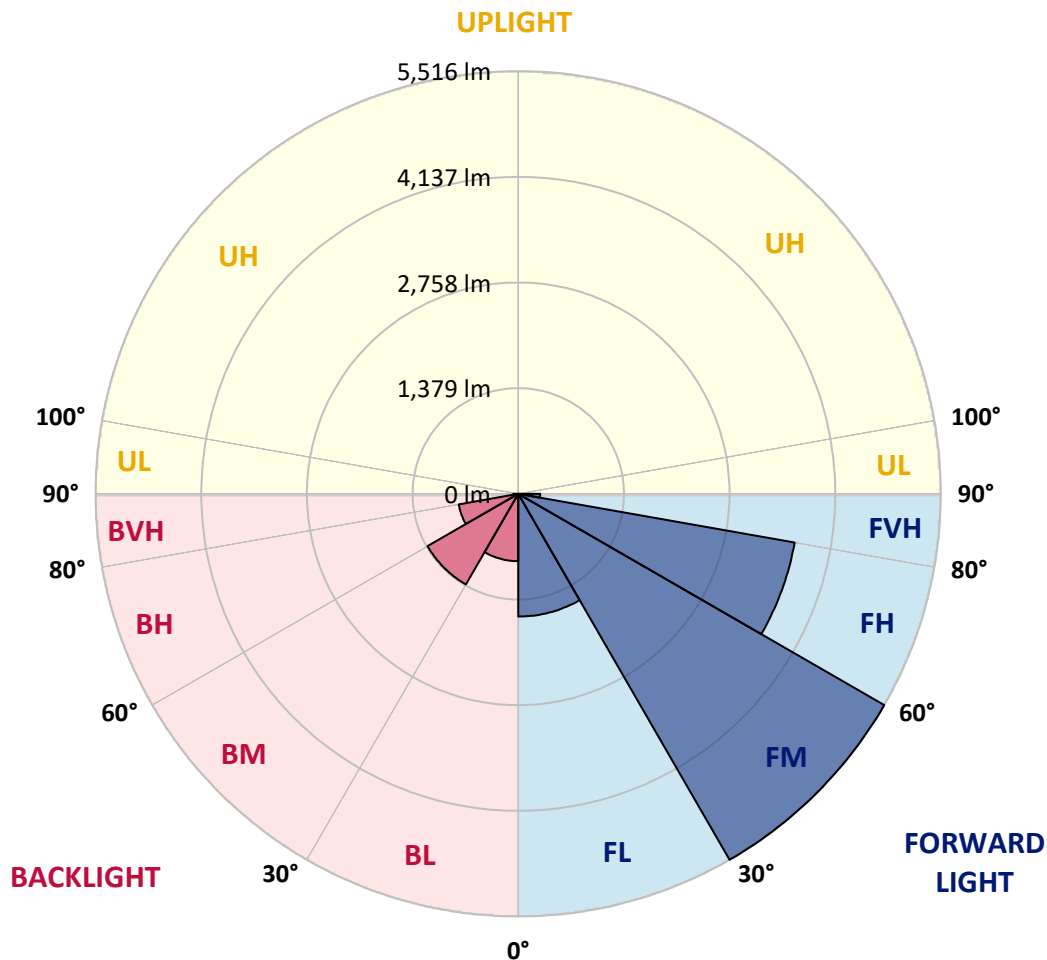
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1602.1	11.3			
FM (30°-60°)	5515.6	38.9			
FH (60°-80°)	3662.9	25.9			G2/5000
FVH (80°-90°)	286.0	2.0			G3/500
BL (0°-30°)	879.4	6.2	B2/1000		
BM (30°-60°)	1366.3	9.6	B2/2500		
BH (60°-80°)	789.0	5.6	B2/1000		G2/1000
BVH (80°-90°)	64.0	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°	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9
2.5°	3949.3	3934.3	3892.3	3782.0	3670.8	3557.7	3470.8	3362.4	3249.4	3188.6	3111.0
5°	4003.5	3986.6	3887.6	3639.1	3413.8	3177.4	2988.6	2823.2	2755.9	2656.9	2577.4
7.5°	3876.4	3869.0	3720.3	3363.4	3055.0	2745.6	2531.6	2399.0	2278.4	2233.5	2242.8
10°	3760.5	3730.6	3544.6	3078.3	2718.5	2467.2	2313.8	2183.9	2098.9	2076.5	2081.2
12.5°	3664.3	3624.1	3404.5	2886.8	2571.8	2370.8	2175.6	2040.0	1962.5	1984.0	2056.9
15°	3644.6	3590.4	3345.6	2821.3	2491.4	2232.6	2018.6	1862.5	1804.6	1851.3	1968.1
17.5°	3771.7	3703.5	3446.5	2842.8	2414.8	2091.5	1828.9	1650.3	1601.8	1676.6	1828.9
20°	4180.1	4079.2	3761.5	2967.1	2407.3	2021.4	1718.6	1539.1	1559.7	1701.8	1860.6
22.5°	4935.2	4783.8	4312.8	3148.4	2446.6	2003.6	1696.1	1602.7	1715.8	1836.4	1941.0
25°	5084.7	4966.0	4411.9	3189.6	2438.2	1991.5	1759.7	1806.5	1932.6	1992.4	1955.9
27.5°	5168.8	5033.4	4405.3	2985.8	2180.3	1806.5	1682.1	1759.7	1791.5	1733.6	1634.5
30°	5365.1	5224.0	4516.6	2771.8	1795.2	1340.1	1174.7	1142.9	1164.4	1175.6	1140.1
32.5°	5635.2	5496.0	4725.9	2631.6	1552.2	1108.3	945.7	900.8	890.6	878.4	864.4
35°	5984.7	5770.7	4931.5	2541.9	1452.2	1025.2	875.6	841.1	827.1	810.2	795.3
37.5°	6339.8	6115.5	5191.3	2447.5	1385.9	967.2	828.9	813.1	788.7	771.0	749.5
40°	6717.4	6465.9	5427.7	2365.3	1321.4	929.8	795.3	793.4	761.6	741.1	715.8
42.5°	7044.4	6785.6	5638.9	2314.8	1271.9	890.6	774.7	780.3	747.6	716.8	684.1
45°	7304.2	7050.1	5834.2	2314.8	1231.7	851.4	771.0	767.3	734.5	696.2	658.8
47.5°	7532.2	7269.7	6024.9	2373.7	1206.4	818.6	750.4	756.9	723.3	674.7	638.3
50°	7708.9	7477.1	6281.9	2465.3	1181.2	792.5	724.3	759.7	713.9	663.5	621.5
52.5°	7934.1	7726.6	6591.2	2590.5	1159.8	763.5	700.9	759.7	713.1	664.5	618.6
55°	8246.2	8027.6	6964.1	2694.2	1125.2	736.4	680.3	738.3	710.3	659.8	611.2
57.5°	8464.9	8301.4	7227.6	2763.4	1075.6	701.8	661.6	717.7	698.1	642.0	588.7
58°	8475.2	8315.4	7265.9	2779.3	1063.5	695.3	656.9	708.4	692.5	634.5	581.3
60°	8357.4	8220.1	7273.4	2756.9	994.3	662.6	632.7	670.1	662.6	590.6	541.1
62.5°	7929.4	7782.7	6971.5	2574.6	902.7	622.4	595.3	618.6	601.8	528.9	483.1
65°	7321.0	7051.0	6351.0	2288.6	837.3	579.4	544.8	546.7	528.9	476.6	436.4
67.5°	6510.8	6209.0	5377.3	1928.8	787.8	531.7	485.0	480.4	458.8	425.2	392.5
70°	5513.7	5307.2	4369.8	1569.1	732.7	479.4	417.7	414.9	401.8	376.6	347.7
72.5°	4468.9	4206.3	3528.7	1256.0	665.4	428.9	355.1	360.7	343.9	326.1	300.0
75°	3297.9	3126.0	2727.9	1007.4	574.7	373.8	296.2	298.1	290.6	271.9	251.4
77.5°	2171.8	2120.4	1951.3	661.6	442.0	297.1	242.0	243.9	238.3	221.5	200.0
80°	1461.6	1427.0	1322.3	426.1	295.3	214.9	186.9	188.8	187.8	170.1	141.1
82.5°	900.8	886.0	852.3	287.8	204.7	154.2	123.3	129.0	139.2	119.6	96.2
85°	425.2	426.1	514.9	157.0	120.6	99.0	67.3	72.0	72.0	72.0	54.2
87.5°	55.1	57.9	71.0	66.3	43.9	37.3	24.3	20.6	17.8	23.3	16.8
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°	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9
2.5°	3083.9	3065.2	3025.0	3015.7	3010.1	3026.0	2983.9	2995.1	2976.4	3028.8	3020.3
5°	2582.1	2584.0	2616.6	2638.2	2645.6	2638.2	2610.1	2561.5	2524.2	2509.2	2513.0
7.5°	2225.1	2257.8	2313.8	2376.5	2433.5	2450.3	2434.4	2342.0	2241.0	2177.4	2156.9
10°	2106.4	2150.4	2214.8	2264.4	2314.8	2355.0	2363.4	2291.4	2171.8	2021.4	1962.5
12.5°	2112.9	2172.7	2234.4	2250.3	2245.6	2261.5	2254.1	2241.9	2163.4	1971.8	1873.7
15°	2051.3	2122.3	2165.3	2156.9	2141.9	2127.9	2108.3	2077.5	2049.4	1914.8	1806.5
17.5°	1909.3	1982.1	2017.6	2020.5	2020.5	2016.7	1969.0	1957.8	1954.1	1888.7	1822.4
20°	1935.4	1975.6	1959.7	1933.5	1941.0	1966.3	1938.2	1932.6	1954.1	1983.0	1970.9
22.5°	1950.4	1936.4	1816.7	1700.8	1674.7	1753.1	1769.0	1831.7	1918.6	2023.3	2091.5
25°	1857.8	1744.8	1530.8	1399.9	1326.1	1399.0	1494.3	1610.2	1740.1	1874.7	1954.1
27.5°	1553.2	1467.2	1314.0	1196.2	1131.7	1142.9	1224.2	1329.8	1450.4	1541.0	1599.0
30°	1170.0	1131.7	1052.3	1012.1	972.9	963.5	998.1	1038.3	1091.5	1102.7	1117.7
32.5°	861.6	856.1	860.7	847.6	840.2	839.2	828.9	838.3	843.8	850.4	837.3
35°	779.4	771.9	758.8	755.1	750.4	752.3	747.6	742.9	746.7	752.3	756.1
37.5°	737.4	726.2	707.4	700.9	700.9	703.7	696.2	694.4	700.9	718.6	728.0
40°	704.6	691.5	670.1	661.6	667.3	674.7	664.5	660.7	676.6	695.3	710.3
42.5°	673.8	663.5	642.9	633.6	638.3	652.3	637.4	634.5	655.1	675.7	693.4
45°	647.6	637.4	618.6	614.0	615.8	628.9	618.6	618.6	638.3	660.7	676.6
47.5°	627.0	614.0	601.8	598.1	599.9	607.5	605.6	605.6	624.3	647.6	663.5
50°	606.5	595.3	579.4	581.3	585.9	596.3	595.3	598.1	616.8	645.7	662.6
52.5°	597.2	580.4	562.6	564.5	578.5	590.6	586.9	589.7	611.2	665.4	689.7
55°	586.9	564.5	543.9	546.7	562.6	580.4	575.7	579.4	604.6	678.5	712.1
57.5°	567.3	541.1	518.7	520.5	543.9	562.6	555.1	559.8	589.7	664.5	699.9
58°	558.8	536.4	514.9	515.8	538.3	558.8	550.4	554.2	585.0	660.7	694.4
60°	523.4	510.3	491.6	492.5	514.0	531.7	527.0	530.8	560.7	633.6	658.8
62.5°	474.7	467.3	462.6	462.6	475.7	492.5	497.2	501.8	528.9	572.8	595.3
65°	422.4	422.4	423.4	423.4	431.7	453.3	456.0	468.2	493.4	514.9	531.7
67.5°	386.9	385.0	386.9	382.2	385.9	399.0	413.0	424.3	450.5	465.4	471.0
70°	341.1	340.1	341.1	334.6	339.2	350.5	359.8	378.5	405.6	416.8	419.6
72.5°	296.2	296.2	298.1	293.5	293.5	305.6	312.1	332.7	357.9	364.5	365.4
75°	249.5	252.3	252.3	245.8	247.7	255.1	263.6	280.4	303.7	308.4	308.4
77.5°	198.1	208.4	208.4	201.9	204.7	205.6	216.8	225.2	243.0	244.8	237.4
80°	143.9	154.2	162.6	157.0	161.7	156.1	162.6	168.2	186.0	177.6	165.4
82.5°	102.8	110.2	116.8	117.8	113.1	102.8	111.2	112.1	120.6	109.3	102.8
85°	57.0	63.6	72.0	68.2	60.8	54.2	57.0	58.9	57.9	55.1	51.4
87.5°	15.0	15.9	17.8	13.1	12.1	10.3	14.0	14.0	15.9	16.8	15.9
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°	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9
2.5°	3026.9	3068.0	3156.8	3224.1	3306.4	3406.4	3524.0	3642.8	3770.8	3811.0	3867.1
5°	2504.5	2607.3	2650.3	2772.8	2894.2	3076.5	3270.8	3496.0	3742.7	3861.4	3975.4
7.5°	2140.1	2195.2	2240.1	2329.7	2475.5	2697.0	2940.9	3222.2	3571.7	3744.6	3911.9
10°	1943.8	1949.4	2004.6	2115.7	2242.8	2438.2	2669.0	2983.9	3373.6	3583.9	3780.2
12.5°	1813.9	1789.6	1849.4	1965.3	2109.2	2289.6	2501.7	2801.7	3230.7	3446.5	3683.9
15°	1699.9	1661.6	1706.5	1825.1	1967.2	2179.3	2407.3	2725.1	3174.6	3425.9	3689.5
17.5°	1702.7	1597.1	1613.0	1713.0	1854.1	2069.9	2346.6	2722.3	3259.6	3549.3	3861.4
20°	1912.9	1743.8	1671.9	1690.6	1827.0	2062.5	2374.6	2853.1	3539.0	3961.4	4295.1
22.5°	2119.5	2017.6	1901.8	1863.5	1938.2	2184.9	2553.1	3162.5	4146.5	4782.9	5385.6
25°	2047.5	2134.5	2105.5	2051.3	2068.1	2272.7	2674.6	3416.6	4618.4	5335.2	5901.5
27.5°	1638.2	1796.1	1827.9	1827.0	1833.6	2001.7	2405.5	3245.6	4677.3	5440.8	5981.9
30°	1151.3	1165.3	1182.2	1214.9	1244.8	1395.2	1882.1	2849.3	4651.1	5488.4	6030.5
32.5°	830.8	849.5	872.8	917.7	988.7	1180.3	1646.6	2723.2	4789.5	5685.7	6172.5
35°	759.7	781.3	803.7	855.1	922.4	1100.0	1553.2	2670.9	5016.5	6005.2	6427.6
37.5°	737.4	761.6	781.3	818.6	872.8	1042.0	1468.1	2635.3	5249.2	6343.6	6769.7
40°	721.5	749.5	765.4	795.3	832.6	988.7	1392.4	2607.3	5474.4	6652.8	7044.4
42.5°	707.4	736.4	756.9	778.5	809.3	941.1	1325.1	2579.3	5669.8	6952.9	7318.2
45°	690.6	727.1	753.2	770.1	797.2	900.8	1273.8	2556.9	5892.2	7219.2	7594.9
47.5°	676.6	716.8	749.5	769.1	779.4	872.8	1232.6	2587.7	6159.5	7497.7	7851.8
50°	677.5	715.8	756.9	787.8	760.7	849.5	1207.4	2710.1	6507.1	7828.5	8054.6
52.5°	707.4	754.2	786.8	794.4	734.5	821.4	1194.3	2924.1	6918.3	8121.0	8259.3
55°	741.1	789.7	825.2	820.5	720.5	785.9	1191.5	3152.1	7368.7	8462.1	8525.6
57.5°	728.9	799.9	854.2	829.8	721.5	751.4	1179.4	3336.3	7745.4	8717.2	8789.2
58°	725.2	796.2	857.9	828.0	718.6	741.1	1176.5	3352.1	7797.7	8735.0	8826.6
60°	688.7	763.5	855.1	814.0	702.7	713.1	1145.8	3403.5	7783.6	8643.4	8849.0
62.5°	622.4	684.1	790.6	745.7	654.2	675.7	1076.5	3340.0	7404.2	8202.3	8521.0
65°	547.6	593.4	664.5	656.0	585.0	637.4	982.2	3088.6	6644.5	7486.5	7821.9
67.5°	491.6	528.9	573.8	561.6	526.1	585.9	880.3	2663.4	5792.2	6626.7	7049.1
70°	434.6	463.5	485.9	477.6	466.4	535.5	789.7	2161.5	4975.4	5809.9	6219.2
72.5°	376.6	403.7	422.4	410.3	403.7	482.2	715.8	1677.5	3929.6	4793.1	5319.3
75°	314.9	342.0	355.1	341.1	337.4	425.2	606.5	1253.2	2948.4	3695.1	4149.3
77.5°	243.9	272.9	289.7	285.0	286.9	349.5	489.7	857.9	2108.3	2518.5	2997.0
80°	171.0	202.8	214.0	209.3	222.5	266.4	345.8	544.8	1454.1	1634.5	1971.8
82.5°	105.6	135.5	137.3	142.0	151.4	197.2	260.7	331.8	913.1	943.9	1188.8
85°	53.2	64.5	69.1	76.7	85.0	120.6	148.6	205.6	587.8	444.8	664.5
87.5°	17.8	18.7	22.4	28.0	34.6	49.6	63.6	84.1	145.8	80.3	205.6
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: P646846

CATALOG NUMBER: GALN-SA3C-835-U-SLR

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9	3554.9
2.5°	3980.1	4059.5	4117.5	4170.8	4119.4	4114.7	4064.2	3983.0	3949.3	3949.3
5°	4214.7	4400.7	4551.1	4647.4	4606.2	4507.2	4343.7	4135.3	4023.1	4003.5
7.5°	4279.2	4646.5	4925.9	5024.9	4955.8	4737.1	4424.0	4072.6	3911.9	3876.4
10°	4239.9	4717.5	5127.7	5284.7	5188.5	4857.7	4430.6	3999.7	3801.6	3760.5
12.5°	4198.8	4726.8	5165.1	5392.2	5329.6	4954.8	4478.2	3952.1	3723.2	3664.3
15°	4228.7	4730.6	5119.3	5353.9	5394.1	5071.6	4556.7	3986.6	3707.3	3644.6
17.5°	4417.5	4801.6	5053.9	5243.6	5384.7	5230.5	4780.1	4152.1	3849.3	3771.7
20°	4811.8	4971.7	5091.3	5238.0	5465.1	5554.8	5237.1	4606.2	4248.3	4180.1
22.5°	5953.9	5924.9	5680.0	5677.2	6006.2	6365.9	6344.5	5529.5	4991.3	4935.2
25°	6381.8	6247.3	5893.1	5807.1	5952.0	6507.1	6426.7	5718.3	5221.2	5084.7
27.5°	6214.6	5881.0	5648.2	5628.6	5581.0	6105.2	6298.7	5795.0	5301.5	5168.8
30°	6204.3	5713.7	5381.0	5420.2	5466.0	5966.9	6369.7	6035.1	5507.2	5365.1
32.5°	6229.5	5737.0	5400.6	5408.1	5544.5	5987.5	6448.2	6296.8	5777.2	5635.2
35°	6331.4	5869.8	5525.9	5508.1	5721.1	6122.0	6581.8	6708.0	6146.4	5984.7
37.5°	6495.8	6134.2	5754.8	5750.1	6059.5	6365.0	6748.2	7123.0	6513.6	6339.8
40°	6737.9	6443.5	6162.2	6137.0	6519.3	6760.3	6964.1	7565.0	6940.7	6717.4
42.5°	7030.4	6814.5	6699.6	6799.6	7166.9	7204.2	7300.5	7973.4	7304.2	7044.4
45°	7301.4	7291.1	7450.9	7716.4	7930.4	7706.1	7651.9	8247.2	7586.5	7304.2
47.5°	7623.8	7902.3	8384.5	8773.3	8997.6	8290.2	7951.8	8425.6	7792.0	7532.2
50°	7950.9	8634.1	9404.1	9946.1	9993.8	8924.7	8158.4	8593.9	7978.9	7708.9
52.5°	8294.8	9218.1	10243.3	10873.2	10780.7	9477.0	8358.4	8707.9	8171.5	7934.1
55°	8593.9	9576.1	10712.5	11317.1	11181.6	9813.4	8574.2	8831.2	8446.2	8246.2
57.5°	8761.1	9605.9	10595.6	11123.6	10976.9	9748.0	8673.3	8922.8	8621.9	8464.9
58°	8785.4	9565.8	10491.9	11011.5	10861.9	9692.8	8672.4	8919.1	8633.1	8475.2
60°	8764.0	9305.0	10105.9	10568.5	10411.6	9347.1	8636.9	8849.0	8491.1	8357.4
62.5°	8564.9	8852.8	9439.6	9776.1	9731.2	8806.9	8491.1	8584.5	8058.4	7929.4
65°	8303.2	8236.0	8586.4	8824.7	8858.3	8402.3	8346.2	8012.6	7503.3	7321.0
67.5°	7985.5	7536.9	7536.0	7671.5	7727.6	7779.9	8044.4	7391.1	6703.3	6510.8
70°	7446.3	6459.4	6162.2	6322.0	6275.4	6717.4	7505.1	6518.3	5738.9	5513.7
72.5°	6457.6	5125.8	4650.2	4855.8	4738.0	5267.9	6566.9	5364.2	4745.5	4468.9
75°	5234.3	3834.4	3343.7	3532.5	3459.6	3996.0	5464.2	3896.1	3403.5	3297.9
77.5°	4064.2	2778.3	2493.3	2467.2	2521.3	2973.7	4008.2	2630.6	2243.8	2171.8
80°	2611.1	1988.7	2005.5	1971.8	1999.9	1874.7	2433.5	1678.4	1519.6	1461.6
82.5°	1718.6	1385.9	1652.2	1525.1	1448.5	1260.7	1596.1	1099.0	932.6	900.8
85°	1171.0	1020.5	929.0	710.3	836.4	971.0	1197.1	591.6	469.1	425.2
87.5°	528.9	355.1	260.7	160.7	254.2	293.5	581.3	69.1	53.2	55.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)