

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: P458673

Luminaire Tested: **GALN-SA2B-735-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458673  
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-SA2B-735-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 800mA 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: 9188 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

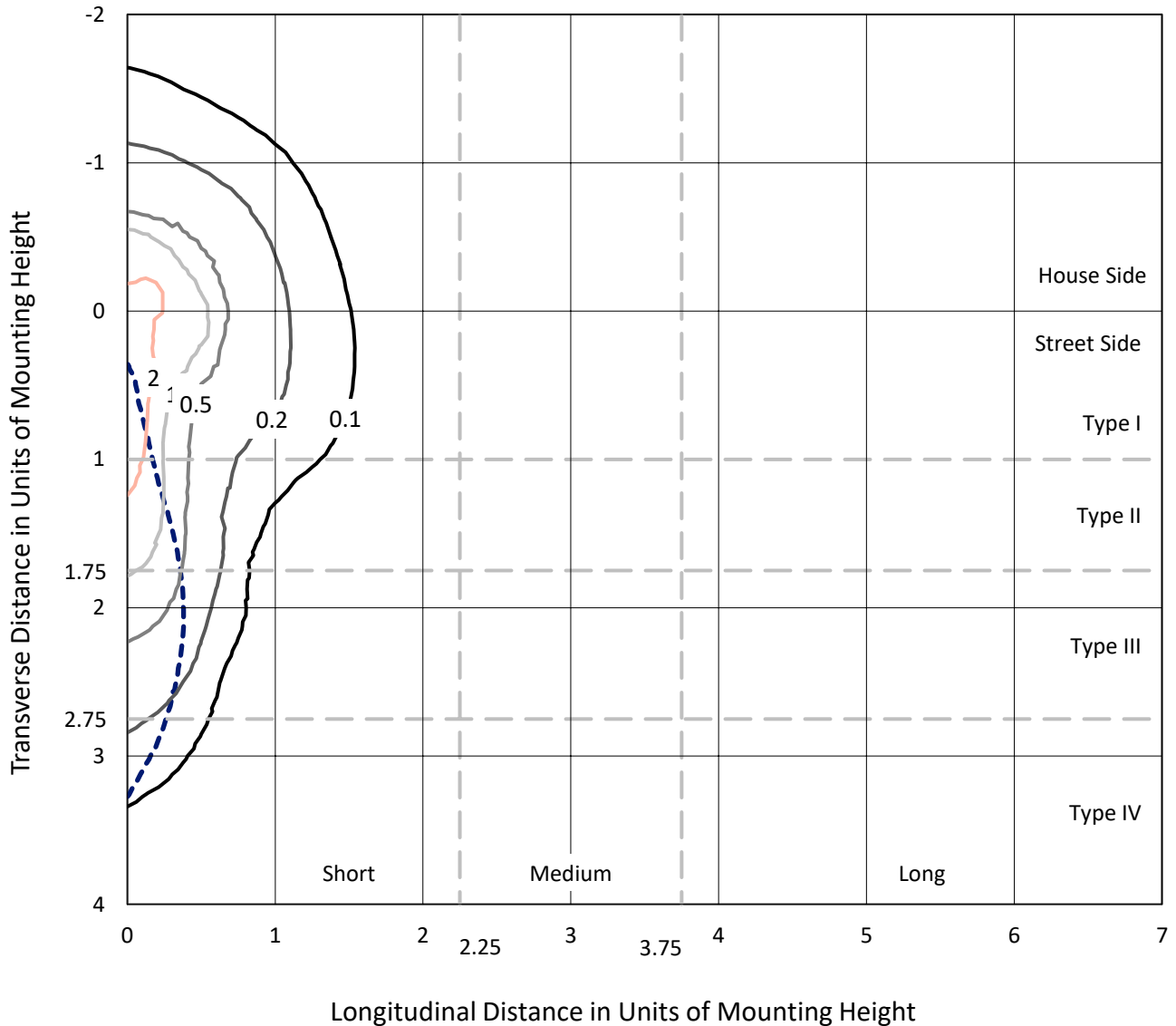
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

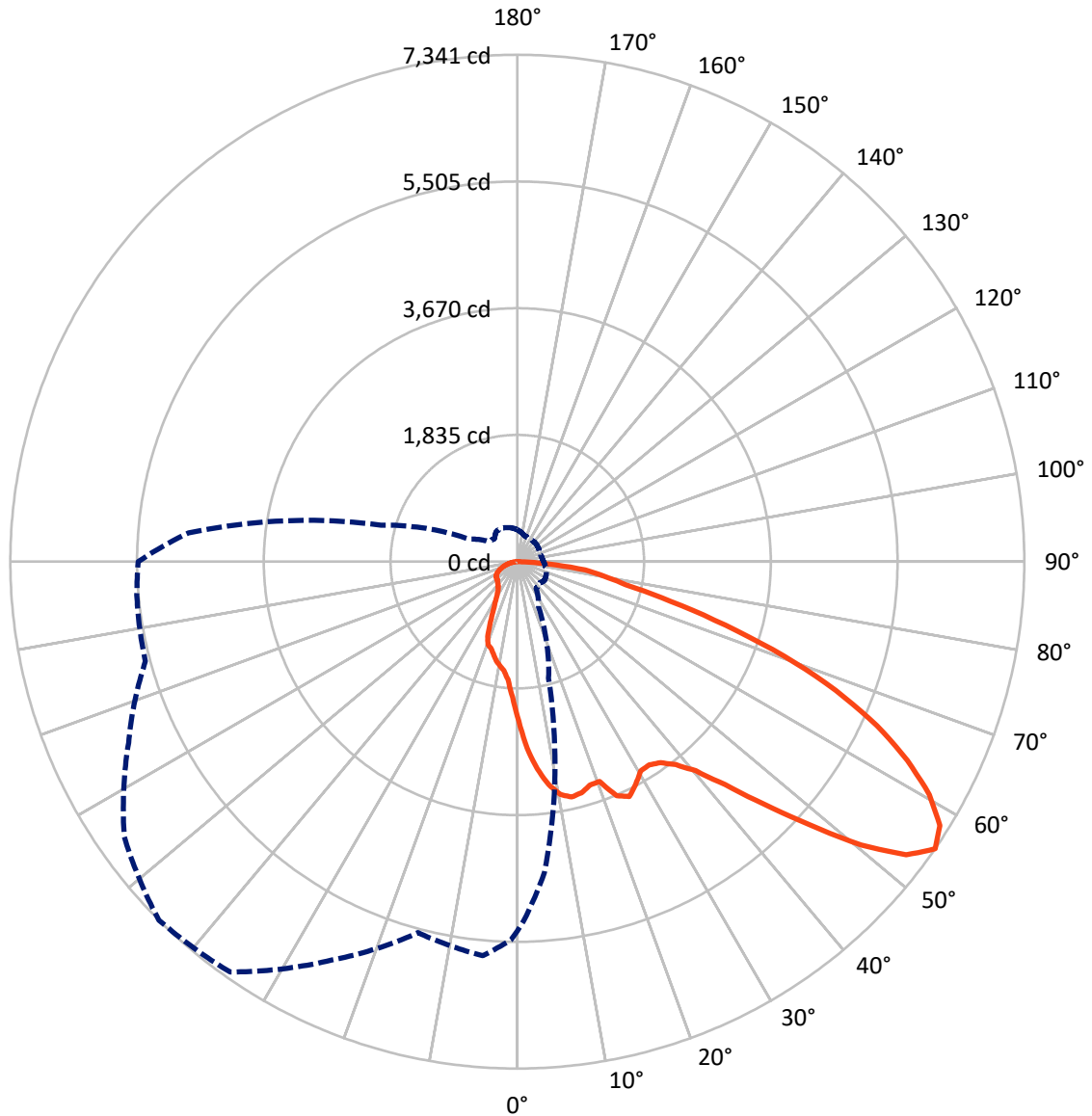
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	2009.8	0.0	2009.8
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	7178.2	0.0	7178.2
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	9188.0	0.0	9188.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.4	2.1
10°-20°	518.5	5.6
20°-30°	895.7	9.7
30°-40°	1040.9	11.3
40°-50°	1452.3	15.8
50°-60°	1970.6	21.4
60°-70°	1874.8	20.4
70°-80°	1012.8	11.0
80°-90°	227.0	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°	9188.0	100.0
0°-180°	9188.0	100.0

**Coefficient of Utilization**



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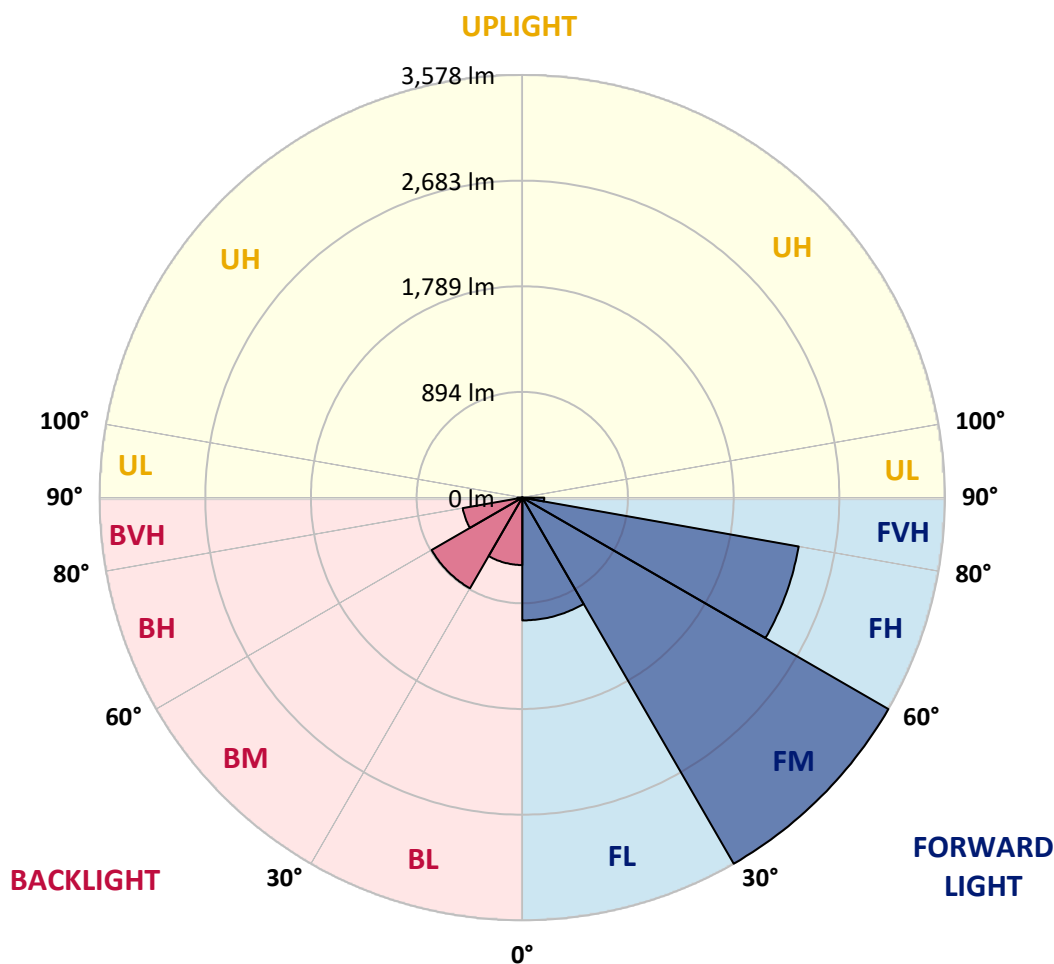
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1039.2	11.3			
FM	(30°-60°)	3577.6	38.9			
FH	(60°-80°)	2375.9	25.9			G2/5000
FVH	(80°-90°)	185.5	2.0			G2/225
BL	(0°-30°)	570.4	6.2	B2/1000		
BM	(30°-60°)	886.2	9.6	B1/1000		
BH	(60°-80°)	511.8	5.6	B2/1000		G2/1000
BVH	(80°-90°)	41.5	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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2305.8	2305.8	2305.8	2305.8	2305.8	2305.8	2305.8	2305.8	2305.8	2305.8	2305.8
2.5°	2561.6	2551.9	2524.7	2453.1	2381.0	2307.6	2251.3	2181.0	2107.6	2068.2	2017.9
5°	2596.8	2585.9	2521.6	2360.4	2214.3	2060.9	1938.5	1831.2	1787.6	1723.3	1671.8
7.5°	2514.3	2509.5	2413.1	2181.6	1981.5	1780.9	1642.1	1556.0	1477.8	1448.7	1454.8
10°	2439.2	2419.8	2299.2	1996.7	1763.3	1600.3	1500.8	1416.6	1361.4	1346.9	1349.9
12.5°	2376.7	2350.7	2208.2	1872.4	1668.1	1537.8	1411.1	1323.2	1272.9	1286.9	1334.2
15°	2364.0	2328.9	2170.0	1830.0	1616.0	1448.1	1309.3	1208.1	1170.5	1200.8	1276.6
17.5°	2446.5	2402.2	2235.5	1843.9	1566.3	1356.6	1186.3	1070.5	1039.0	1087.4	1186.3
20°	2711.3	2645.9	2439.8	1924.6	1561.5	1311.1	1114.7	998.3	1011.7	1103.8	1206.9
22.5°	3201.1	3102.9	2797.4	2042.1	1586.9	1299.6	1100.2	1039.6	1112.9	1191.1	1259.0
25°	3298.1	3221.1	2861.7	2068.8	1581.5	1291.7	1141.4	1171.7	1253.5	1292.3	1268.7
27.5°	3352.7	3264.8	2857.4	1936.7	1414.2	1171.7	1091.1	1141.4	1162.0	1124.4	1060.2
30°	3480.0	3388.4	2929.6	1797.9	1164.4	869.2	761.9	741.3	755.3	762.5	739.5
32.5°	3655.1	3564.8	3065.3	1706.9	1006.8	718.9	613.4	584.3	577.7	569.8	560.7
35°	3881.8	3743.0	3198.7	1648.8	942.0	665.0	568.0	545.5	536.5	525.5	515.8
37.5°	4112.2	3966.7	3367.2	1587.5	898.9	627.4	537.7	527.4	511.6	500.1	486.1
40°	4357.1	4194.0	3520.6	1534.2	857.1	603.1	515.8	514.6	494.0	480.7	464.3
42.5°	4569.2	4401.3	3657.6	1501.5	825.0	577.7	502.5	506.1	484.9	464.9	443.7
45°	4737.7	4572.9	3784.3	1501.5	798.9	552.2	500.1	497.7	476.4	451.6	427.3
47.5°	4885.6	4715.3	3907.9	1539.6	782.6	531.0	486.7	491.0	469.2	437.6	414.0
50°	5000.2	4849.9	4074.6	1599.0	766.2	514.0	469.8	492.8	463.1	430.4	403.1
52.5°	5146.3	5011.7	4275.2	1680.3	752.2	495.2	454.6	492.8	462.5	431.0	401.3
55°	5348.7	5206.9	4517.1	1747.6	729.8	477.7	441.3	478.9	460.7	427.9	396.4
57.5°	5490.6	5384.5	4688.0	1792.4	697.7	455.2	429.2	465.5	452.8	416.4	381.9
58°	5497.3	5393.6	4712.9	1802.7	689.8	451.0	426.1	459.5	449.2	411.6	377.0
60°	5420.9	5331.8	4717.7	1788.2	645.0	429.8	410.4	434.6	429.8	383.1	351.0
62.5°	5143.3	5048.1	4521.9	1670.0	585.5	403.7	386.1	401.3	390.4	343.1	313.4
65°	4748.7	4573.5	4119.5	1484.5	543.1	375.8	353.4	354.6	343.1	309.1	283.1
67.5°	4223.1	4027.3	3487.8	1251.1	511.0	344.9	314.6	311.6	297.6	275.8	254.6
70°	3576.3	3442.4	2834.4	1017.7	475.2	311.0	271.0	269.1	260.6	244.3	225.5
72.5°	2898.7	2728.3	2288.9	814.7	431.6	278.2	230.3	234.0	223.1	211.5	194.6
75°	2139.1	2027.6	1769.4	653.4	372.8	242.5	192.2	193.4	188.5	176.4	163.1
77.5°	1408.7	1375.4	1265.7	429.2	286.7	192.8	157.0	158.2	154.6	143.7	129.7
80°	948.0	925.6	857.7	276.4	191.5	139.4	121.2	122.4	121.8	110.3	91.5
82.5°	584.3	574.6	552.8	186.7	132.7	100.0	80.0	83.6	90.3	77.6	62.4
85°	275.8	276.4	334.0	101.8	78.2	64.3	43.6	46.7	46.7	46.7	35.2
87.5°	35.8	37.6	46.1	43.0	28.5	24.2	15.8	13.3	11.5	15.2	10.9
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2305.8	2305.8	2305.8	2305.8	2305.8	2305.8	2305.8	2305.8	2305.8	2305.8	2305.8
2.5°	2000.3	1988.2	1962.1	1956.1	1952.4	1962.7	1935.5	1942.7	1930.6	1964.6	1959.1
5°	1674.8	1676.0	1697.2	1711.2	1716.0	1711.2	1693.0	1661.5	1637.2	1627.5	1630.0
7.5°	1443.3	1464.5	1500.8	1541.5	1578.4	1589.3	1579.0	1519.0	1453.6	1412.4	1399.0
10°	1366.3	1394.8	1436.6	1468.7	1501.5	1527.5	1533.0	1486.3	1408.7	1311.1	1272.9
12.5°	1370.5	1409.3	1449.3	1459.6	1456.6	1466.9	1462.1	1454.2	1403.3	1279.0	1215.3
15°	1330.5	1376.6	1404.5	1399.0	1389.3	1380.2	1367.5	1347.5	1329.3	1242.0	1171.7
17.5°	1238.4	1285.7	1308.7	1310.5	1310.5	1308.1	1277.2	1269.9	1267.5	1225.0	1182.0
20°	1255.4	1281.4	1271.1	1254.1	1259.0	1275.4	1257.2	1253.5	1267.5	1286.3	1278.4
22.5°	1265.1	1256.0	1178.4	1103.2	1086.2	1137.2	1147.5	1188.1	1244.4	1312.3	1356.6
25°	1205.0	1131.7	992.9	908.0	860.1	907.4	969.2	1044.4	1128.7	1216.0	1267.5
27.5°	1007.4	951.7	852.3	775.9	734.1	741.3	794.1	862.6	940.8	999.6	1037.1
30°	758.9	734.1	682.5	656.5	631.0	624.9	647.4	673.4	708.0	715.3	725.0
32.5°	558.9	555.2	558.3	549.8	544.9	544.3	537.7	543.7	547.4	551.6	543.1
35°	505.5	500.7	492.2	489.8	486.7	488.0	484.9	481.9	484.3	488.0	490.4
37.5°	478.3	471.0	458.9	454.6	454.6	456.4	451.6	450.4	454.6	466.1	472.2
40°	457.0	448.6	434.6	429.2	432.8	437.6	431.0	428.6	438.9	451.0	460.7
42.5°	437.0	430.4	417.0	411.0	414.0	423.1	413.4	411.6	424.9	438.3	449.8
45°	420.1	413.4	401.3	398.2	399.5	407.9	401.3	401.3	414.0	428.6	438.9
47.5°	406.7	398.2	390.4	387.9	389.2	394.0	392.8	392.8	404.9	420.1	430.4
50°	393.4	386.1	375.8	377.0	380.1	386.7	386.1	387.9	400.1	418.9	429.8
52.5°	387.3	376.4	364.9	366.1	375.2	383.1	380.7	382.5	396.4	431.6	447.3
55°	380.7	366.1	352.8	354.6	364.9	376.4	373.4	375.8	392.2	440.1	461.9
57.5°	367.9	351.0	336.4	337.6	352.8	364.9	360.1	363.1	382.5	431.0	454.0
58°	362.5	347.9	334.0	334.6	349.1	362.5	357.0	359.5	379.5	428.6	450.4
60°	339.4	331.0	318.8	319.4	333.4	344.9	341.9	344.3	363.7	411.0	427.3
62.5°	307.9	303.1	300.0	300.0	308.5	319.4	322.5	325.5	343.1	371.6	386.1
65°	274.0	274.0	274.6	274.6	280.0	294.0	295.8	303.7	320.1	334.0	344.9
67.5°	250.9	249.7	250.9	247.9	250.3	258.8	267.9	275.2	292.2	301.9	305.5
70°	221.2	220.6	221.2	217.0	220.0	227.3	233.4	245.5	263.1	270.3	272.2
72.5°	192.2	192.2	193.4	190.3	190.3	198.2	202.5	215.8	232.2	236.4	237.0
75°	161.8	163.7	163.7	159.4	160.6	165.5	170.9	181.8	197.0	200.0	200.0
77.5°	128.5	135.2	135.2	130.9	132.7	133.4	140.6	146.1	157.6	158.8	154.0
80°	93.3	100.0	105.5	101.8	104.9	101.2	105.5	109.1	120.6	115.2	107.3
82.5°	66.7	71.5	75.8	76.4	73.3	66.7	72.1	72.7	78.2	70.9	66.7
85°	37.0	41.2	46.7	44.2	39.4	35.2	37.0	38.2	37.6	35.8	33.3
87.5°	9.7	10.3	11.5	8.5	7.9	6.7	9.1	9.1	10.3	10.9	10.3
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°	2305.8	2305.8	2305.8	2305.8	2305.8	2305.8	2305.8	2305.8	2305.8	2305.8	2305.8
2.5°	1963.3	1990.0	2047.6	2091.2	2144.6	2209.4	2285.8	2362.8	2445.9	2471.9	2508.3
5°	1624.5	1691.2	1719.1	1798.5	1877.3	1995.5	2121.6	2267.6	2427.7	2504.6	2578.6
7.5°	1388.1	1423.9	1453.0	1511.2	1605.7	1749.4	1907.6	2090.0	2316.7	2428.9	2537.4
10°	1260.8	1264.4	1300.2	1372.3	1454.8	1581.5	1731.2	1935.5	2188.2	2324.6	2451.9
12.5°	1176.6	1160.8	1199.6	1274.8	1368.1	1485.1	1622.7	1817.3	2095.5	2235.5	2389.5
15°	1102.6	1077.8	1106.8	1183.8	1276.0	1413.6	1561.5	1767.6	2059.1	2222.2	2393.1
17.5°	1104.4	1035.9	1046.2	1111.1	1202.6	1342.6	1522.1	1765.7	2114.3	2302.2	2504.6
20°	1240.8	1131.1	1084.4	1096.5	1185.0	1337.8	1540.3	1850.6	2295.5	2569.5	2785.9
22.5°	1374.8	1308.7	1233.5	1208.7	1257.2	1417.2	1656.0	2051.2	2689.5	3102.3	3493.3
25°	1328.1	1384.5	1365.7	1330.5	1341.4	1474.2	1734.8	2216.1	2995.6	3460.6	3827.9
27.5°	1062.6	1165.0	1185.6	1185.0	1189.3	1298.4	1560.3	2105.2	3033.8	3529.1	3880.0
30°	746.8	755.9	766.8	788.0	807.4	905.0	1220.8	1848.2	3016.9	3560.0	3911.5
32.5°	538.9	551.0	566.2	595.2	641.3	765.6	1068.1	1766.3	3106.6	3687.9	4003.7
35°	492.8	506.7	521.3	554.6	598.3	713.4	1007.4	1732.4	3253.9	3895.2	4169.2
37.5°	478.3	494.0	506.7	531.0	566.2	675.9	952.3	1709.4	3404.8	4114.6	4391.0
40°	468.0	486.1	496.4	515.8	540.1	641.3	903.2	1691.2	3550.9	4315.2	4569.2
42.5°	458.9	477.7	491.0	504.9	524.9	610.4	859.5	1673.0	3677.6	4509.8	4746.8
45°	448.0	471.6	488.6	499.5	517.1	584.3	826.2	1658.5	3821.8	4682.6	4926.3
47.5°	438.9	464.9	486.1	498.9	505.5	566.2	799.5	1678.5	3995.2	4863.2	5092.9
50°	439.5	464.3	491.0	511.0	493.4	551.0	783.2	1757.9	4220.7	5077.8	5224.5
52.5°	458.9	489.2	510.4	515.2	476.4	532.8	774.7	1896.7	4487.4	5267.5	5357.2
55°	480.7	512.2	535.2	532.2	467.3	509.8	772.9	2044.6	4779.6	5488.8	5530.0
57.5°	472.8	518.9	554.0	538.3	468.0	487.4	765.0	2164.0	5023.8	5654.3	5700.9
58°	470.4	516.4	556.5	537.1	466.1	480.7	763.2	2174.3	5057.8	5665.8	5725.2
60°	446.7	495.2	554.6	528.0	455.8	462.5	743.2	2207.6	5048.7	5606.4	5739.7
62.5°	403.7	443.7	512.8	483.7	424.3	438.3	698.3	2166.4	4802.6	5320.3	5527.0
65°	355.2	384.9	431.0	425.5	379.5	413.4	637.1	2003.4	4309.8	4855.9	5073.6
67.5°	318.8	343.1	372.2	364.3	341.3	380.1	571.0	1727.6	3757.0	4298.3	4572.3
70°	281.9	300.7	315.2	309.7	302.5	347.3	512.2	1402.0	3227.2	3768.5	4034.0
72.5°	244.3	261.9	274.0	266.1	261.9	312.8	464.3	1088.1	2548.9	3109.0	3450.3
75°	204.3	221.9	230.3	221.2	218.8	275.8	393.4	812.9	1912.4	2396.8	2691.3
77.5°	158.2	177.0	187.9	184.9	186.1	226.7	317.6	556.5	1367.5	1633.6	1944.0
80°	110.9	131.5	138.8	135.8	144.3	172.8	224.3	353.4	943.2	1060.2	1279.0
82.5°	68.5	87.9	89.1	92.1	98.2	127.9	169.1	215.2	592.2	612.2	771.0
85°	34.6	41.8	44.9	49.7	55.2	78.2	96.4	133.4	381.3	288.5	431.0
87.5°	11.5	12.1	14.5	18.2	22.4	32.1	41.2	54.6	94.6	52.1	133.4
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: P458673

CATALOG NUMBER: GALN-SA2B-735-U-SLR

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2305.8	2305.8	2305.8	2305.8	2305.8	2305.8	2305.8	2305.8	2305.8	2305.8
2.5°	2581.6	2633.2	2670.7	2705.3	2671.9	2668.9	2636.2	2583.4	2561.6	2561.6
5°	2733.8	2854.4	2952.0	3014.4	2987.8	2923.5	2817.4	2682.3	2609.5	2596.8
7.5°	2775.6	3013.8	3195.1	3259.3	3214.5	3072.6	2869.6	2641.6	2537.4	2514.3
10°	2750.1	3059.9	3326.0	3427.8	3365.4	3150.8	2873.8	2594.4	2465.9	2439.2
12.5°	2723.5	3066.0	3350.2	3497.5	3456.9	3213.9	2904.7	2563.4	2414.9	2376.7
15°	2742.9	3068.4	3320.5	3472.7	3498.8	3289.6	2955.6	2585.9	2404.6	2364.0
17.5°	2865.3	3114.4	3278.1	3401.2	3492.7	3392.7	3100.5	2693.2	2496.8	2446.5
20°	3121.1	3224.8	3302.4	3397.5	3544.8	3603.0	3396.9	2987.8	2755.6	2711.3
22.5°	3861.8	3843.0	3684.2	3682.4	3895.8	4129.2	4115.2	3586.6	3237.5	3201.1
25°	4139.5	4052.2	3822.4	3766.7	3860.6	4220.7	4168.6	3709.1	3386.6	3298.1
27.5°	4031.0	3814.6	3663.6	3650.9	3620.0	3960.0	4085.5	3758.8	3438.7	3352.7
30°	4024.3	3706.1	3490.3	3515.7	3545.4	3870.3	4131.6	3914.6	3572.1	3480.0
32.5°	4040.7	3721.2	3503.0	3507.8	3596.3	3883.7	4182.5	4084.3	3747.3	3655.1
35°	4106.7	3807.3	3584.2	3572.7	3710.9	3970.9	4269.2	4351.0	3986.7	3881.8
37.5°	4213.4	3978.8	3732.7	3729.7	3930.3	4128.5	4377.1	4620.1	4224.9	4112.2
40°	4370.4	4179.5	3997.0	3980.6	4228.6	4385.0	4517.1	4906.9	4501.9	4357.1
42.5°	4560.1	4420.1	4345.6	4410.4	4648.6	4672.9	4735.3	5171.7	4737.7	4569.2
45°	4735.9	4729.3	4832.9	5005.1	5143.9	4998.4	4963.2	5349.4	4920.8	4737.7
47.5°	4945.0	5125.7	5438.5	5690.6	5836.1	5377.2	5157.8	5465.1	5054.2	4885.6
50°	5157.2	5600.3	6099.8	6451.4	6482.3	5788.8	5291.8	5574.2	5175.4	5000.2
52.5°	5380.3	5979.2	6644.1	7052.7	6992.7	6147.1	5421.5	5648.2	5300.3	5146.3
55°	5574.2	6211.3	6948.4	7340.6	7252.7	6365.3	5561.5	5728.2	5478.5	5348.7
57.5°	5682.7	6230.7	6872.6	7215.1	7119.9	6322.8	5625.8	5787.6	5592.4	5490.6
58°	5698.5	6204.6	6805.3	7142.4	7045.4	6287.1	5625.2	5785.2	5599.7	5497.3
60°	5684.6	6035.5	6555.0	6855.1	6753.2	6062.8	5602.1	5739.7	5507.6	5420.9
62.5°	5555.4	5742.1	6122.8	6341.0	6311.9	5712.4	5507.6	5568.2	5226.9	5143.3
65°	5385.7	5342.1	5569.4	5724.0	5745.8	5450.0	5413.6	5197.2	4866.9	4748.7
67.5°	5179.6	4888.7	4888.1	4976.0	5012.3	5046.3	5217.8	4794.1	4348.0	4223.1
70°	4829.9	4189.8	3997.0	4100.7	4070.4	4357.1	4868.1	4228.0	3722.4	3576.3
72.5°	4188.6	3324.8	3016.2	3149.6	3073.2	3416.9	4259.5	3479.4	3078.1	2898.7
75°	3395.1	2487.1	2168.8	2291.3	2244.0	2591.9	3544.2	2527.1	2207.6	2139.1
77.5°	2636.2	1802.1	1617.2	1600.3	1635.4	1928.8	2599.8	1706.3	1455.4	1408.7
80°	1693.6	1289.9	1300.8	1279.0	1297.2	1216.0	1578.4	1088.7	985.6	948.0
82.5°	1114.7	898.9	1071.7	989.3	939.5	817.7	1035.3	712.8	604.9	584.3
85°	759.5	661.9	602.5	460.7	542.5	629.8	776.5	383.7	304.3	275.8
87.5°	343.1	230.3	169.1	104.3	164.9	190.3	377.0	44.9	34.6	35.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)