

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: P459311

Luminaire Tested: **GALN-SA7D-735-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459311
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-SA7D-735-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 43266 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

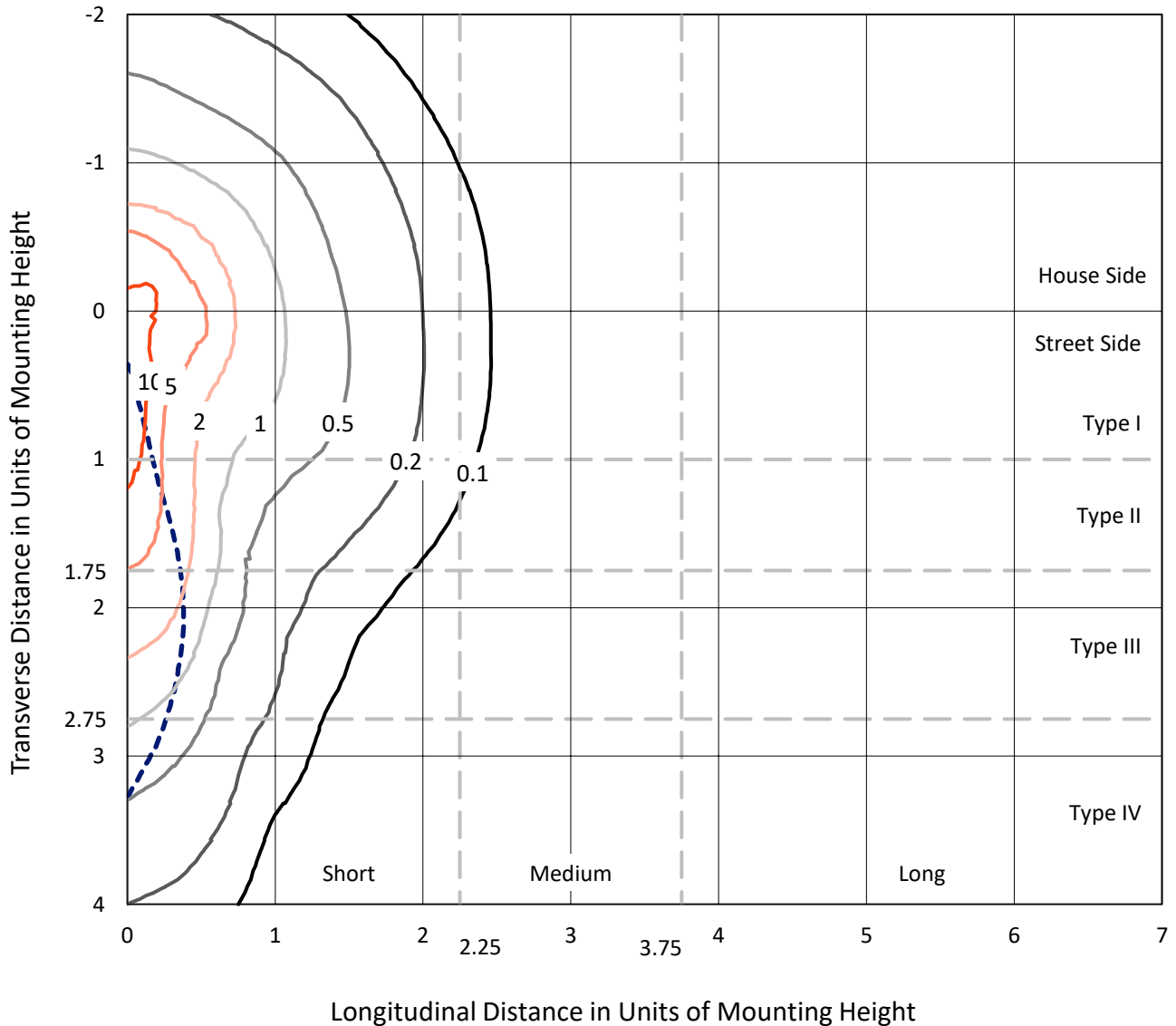
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459311
 CATALOG NUMBER: GALN-SA7D-735-U-SLR

Iso-Footcandle Lines of Horizontal Illumination

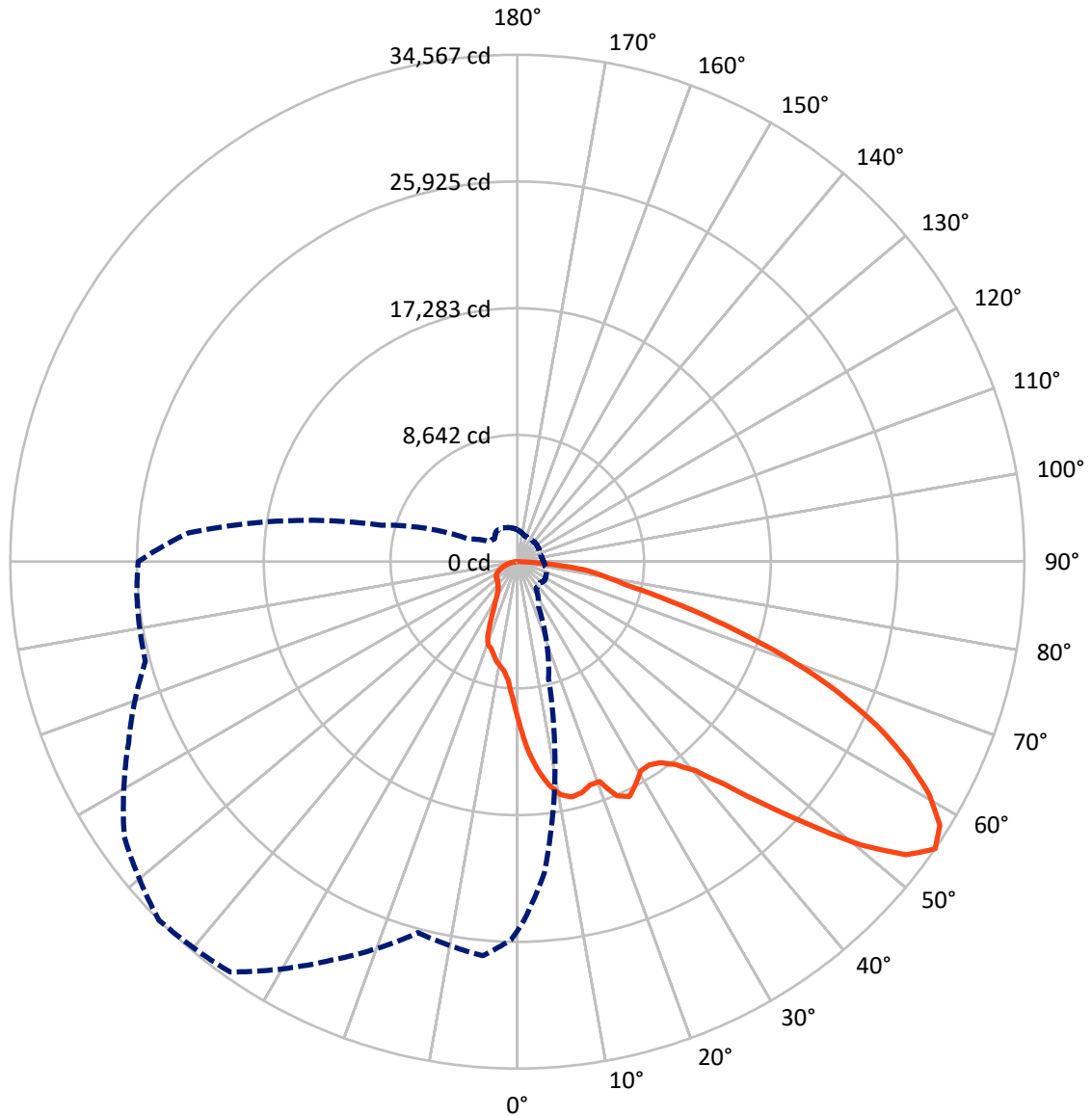
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P459311
CATALOG NUMBER: GALN-SA7D-735-U-SLR

Luminous Intensity Polar Plot



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

REPORT NUMBER: P459311

CATALOG NUMBER: GALN-SA7D-735-U-SLR

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9464.2	0.0	9464.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	33801.8	0.0	33801.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	43266.0	0.0	43266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	920.3	2.1
10°-20°	2441.5	5.6
20°-30°	4217.7	9.7
30°-40°	4901.7	11.3
40°-50°	6838.8	15.8
50°-60°	9279.5	21.4
60°-70°	8828.4	20.4
70°-80°	4769.3	11.0
80°-90°	1068.9	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°	43266.0	100.0
0°-180°	43266.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459311

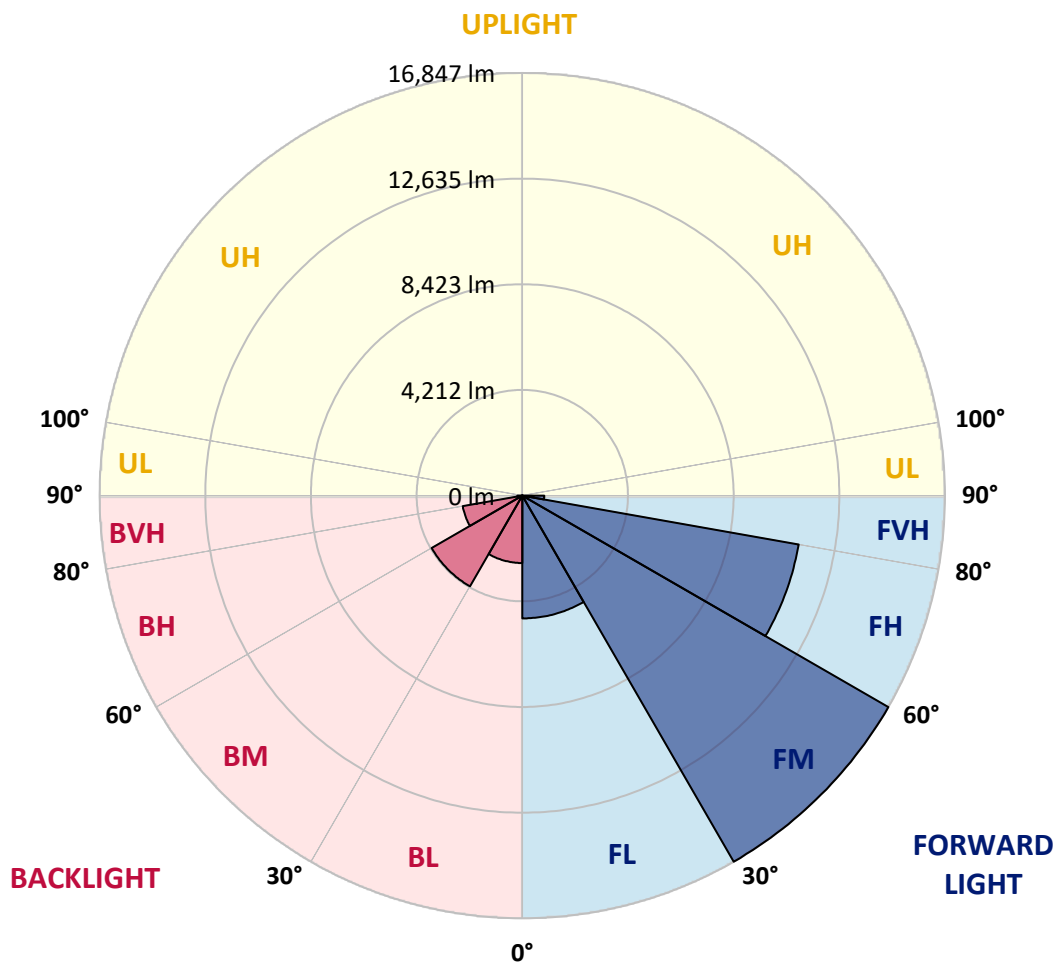
CATALOG NUMBER: GALN-SA7D-735-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4893.5	11.3			
FM	(30°-60°)	16846.9	38.9			
FH	(60°-80°)	11187.9	25.9			G4/12000
FVH	(80°-90°)	873.6	2.0			G5
BL	(0°-30°)	2686.0	6.2	B4/5000		
BM	(30°-60°)	4173.1	9.6	B3/5000		
BH	(60°-80°)	2409.8	5.6	B3/2500		G3/2500
BVH	(80°-90°)	195.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





REPORT NUMBER: P459311

CATALOG NUMBER: GALN-SA7D-735-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10858.1	10858.1	10858.1	10858.1	10858.1	10858.1	10858.1	10858.1	10858.1	10858.1	10858.1
2.5°	12062.6	12017.0	11888.5	11551.7	11212.0	10866.6	10601.2	10270.1	9924.7	9739.2	9502.2
5°	12228.2	12176.8	11874.2	11115.0	10427.1	9704.9	9128.3	8623.1	8417.6	8115.0	7872.4
7.5°	11840.0	11817.1	11363.3	10272.9	9331.0	8386.2	7732.5	7327.2	6959.0	6822.0	6850.5
10°	11486.0	11394.7	10826.7	9402.3	8303.4	7535.6	7067.5	6670.7	6410.9	6342.4	6356.7
12.5°	11192.0	11069.3	10398.5	8817.2	7855.3	7241.6	6645.0	6231.1	5994.2	6059.9	6282.5
15°	11132.1	10966.5	10218.7	8617.4	7609.8	6819.1	6165.5	5688.8	5511.8	5654.5	6011.3
17.5°	11520.3	11311.9	10527.0	8683.0	7375.7	6388.1	5586.0	5040.8	4892.4	5120.8	5586.0
20°	12767.7	12459.4	11488.9	9062.7	7352.9	6174.0	5249.2	4701.2	4764.0	5197.8	5683.1
22.5°	15074.0	14611.6	13173.0	9616.4	7472.8	6119.8	5180.7	4895.3	5240.6	5608.9	5928.6
25°	15530.7	15168.2	13475.5	9742.0	7447.1	6082.7	5374.8	5517.5	5902.9	6085.5	5974.2
27.5°	15787.6	15373.7	13455.6	9119.8	6659.3	5517.5	5137.9	5374.8	5471.9	5294.9	4992.3
30°	16387.0	15956.0	13795.2	8466.1	5483.3	4093.2	3588.0	3490.9	3556.6	3590.8	3482.3
32.5°	17211.9	16786.6	14434.6	8037.9	4741.1	3385.3	2888.6	2751.6	2720.2	2683.1	2640.3
35°	18279.5	17625.8	15062.6	7763.9	4435.7	3131.3	2674.6	2568.9	2526.1	2474.8	2429.1
37.5°	19364.1	18679.1	15856.1	7475.6	4233.1	2954.3	2531.8	2483.3	2409.1	2354.9	2289.2
40°	20517.3	19749.5	16578.3	7224.4	4036.1	2840.1	2429.1	2423.4	2326.3	2263.5	2186.5
42.5°	21516.3	20725.7	17223.4	7070.3	3884.8	2720.2	2366.3	2383.4	2283.5	2189.3	2089.4
45°	22309.9	21533.5	17819.9	7070.3	3762.1	2600.3	2354.9	2343.4	2243.5	2126.5	2012.3
47.5°	23006.3	22204.3	18402.2	7250.1	3685.0	2500.4	2292.1	2312.1	2209.3	2060.9	1949.5
50°	23545.8	22837.9	19187.2	7529.9	3607.9	2420.5	2212.1	2320.6	2180.7	2026.6	1898.2
52.5°	24233.7	23600.0	20132.0	7912.4	3542.3	2332.0	2140.8	2320.6	2177.9	2029.5	1889.6
55°	25187.1	24519.2	21270.9	8229.2	3436.7	2249.3	2078.0	2255.0	2169.3	2015.2	1866.8
57.5°	25855.0	25355.5	22075.8	8440.4	3285.4	2143.6	2020.9	2192.2	2132.2	1961.0	1798.3
58°	25886.4	25398.3	22192.8	8488.9	3248.3	2123.7	2006.6	2163.6	2115.1	1938.1	1775.4
60°	25526.8	25107.2	22215.7	8420.4	3037.1	2023.8	1932.4	2046.6	2023.8	1804.0	1652.7
62.5°	24219.4	23771.3	21293.7	7863.8	2757.3	1901.0	1818.2	1889.6	1838.2	1615.6	1475.7
65°	22361.2	21536.3	19398.4	6990.4	2557.5	1769.7	1664.1	1669.8	1615.6	1455.7	1333.0
67.5°	19886.5	18964.5	16424.1	5891.4	2406.2	1624.1	1481.4	1467.2	1401.5	1298.7	1198.8
70°	16840.9	16210.0	13347.1	4792.5	2237.8	1464.3	1275.9	1267.3	1227.4	1150.3	1061.8
72.5°	13649.7	12847.6	10778.2	3836.3	2032.3	1310.2	1084.7	1101.8	1050.4	996.2	916.3
75°	10073.1	9547.9	8331.9	3077.0	1755.4	1141.8	904.8	910.5	887.7	830.6	767.8
77.5°	6633.6	6476.6	5960.0	2020.9	1350.1	907.7	739.3	745.0	727.9	676.5	610.8
80°	4464.3	4358.6	4039.0	1301.6	902.0	656.5	570.9	576.6	573.7	519.5	431.0
82.5°	2751.6	2706.0	2603.2	879.2	625.1	471.0	376.8	393.9	425.3	365.4	294.0
85°	1298.7	1301.6	1572.8	479.5	368.2	302.6	205.5	219.8	219.8	219.8	165.6
87.5°	168.4	177.0	216.9	202.7	134.2	114.2	74.2	62.8	54.2	71.4	51.4
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: P459311

CATALOG NUMBER: GALN-SA7D-735-U-SLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10858.1	10858.1	10858.1	10858.1	10858.1	10858.1	10858.1	10858.1	10858.1	10858.1	10858.1
2.5°	9419.5	9362.4	9239.6	9211.1	9194.0	9242.5	9114.0	9148.3	9091.2	9251.1	9225.4
5°	7886.7	7892.4	7992.3	8057.9	8080.8	8057.9	7972.3	7823.9	7709.7	7664.0	7675.4
7.5°	6796.3	6896.2	7067.5	7258.7	7432.8	7484.2	7435.7	7153.1	6844.8	6650.7	6587.9
10°	6433.8	6567.9	6764.9	6916.2	7070.3	7193.0	7218.7	6998.9	6633.6	6174.0	5994.2
12.5°	6453.8	6636.4	6824.8	6873.4	6859.1	6907.6	6884.8	6847.7	6607.9	6022.7	5723.0
15°	6265.4	6482.3	6613.6	6587.9	6542.2	6499.4	6439.5	6345.3	6259.7	5848.6	5517.5
17.5°	5831.5	6054.1	6162.6	6171.2	6171.2	6159.8	6014.2	5979.9	5968.5	5768.7	5566.0
20°	5911.4	6034.2	5985.6	5905.7	5928.6	6005.6	5920.0	5902.9	5968.5	6057.0	6019.9
22.5°	5957.1	5914.3	5548.9	5195.0	5115.1	5354.8	5403.3	5594.6	5860.0	6179.7	6388.1
25°	5674.5	5329.1	4675.5	4275.9	4050.4	4273.0	4564.2	4918.1	5314.9	5725.9	5968.5
27.5°	4744.0	4481.4	4013.3	3653.6	3456.7	3490.9	3739.2	4061.8	4430.0	4706.9	4883.9
30°	3573.7	3456.7	3214.0	3091.3	2971.4	2942.9	3048.5	3171.2	3333.9	3368.2	3413.8
32.5°	2631.7	2614.6	2628.9	2588.9	2566.1	2563.2	2531.8	2560.4	2577.5	2597.5	2557.5
35°	2380.6	2357.7	2317.8	2306.3	2292.1	2297.8	2283.5	2269.2	2280.7	2297.8	2309.2
37.5°	2252.1	2217.9	2160.8	2140.8	2140.8	2149.4	2126.5	2120.8	2140.8	2195.0	2223.6
40°	2152.2	2112.2	2046.6	2020.9	2038.0	2060.9	2029.5	2018.0	2066.6	2123.7	2169.3
42.5°	2058.0	2026.6	1963.8	1935.3	1949.5	1992.4	1946.7	1938.1	2000.9	2063.7	2118.0
45°	1978.1	1946.7	1889.6	1875.3	1881.0	1921.0	1889.6	1889.6	1949.5	2018.0	2066.6
47.5°	1915.3	1875.3	1838.2	1826.8	1832.5	1855.3	1849.6	1849.6	1906.7	1978.1	2026.6
50°	1852.5	1818.2	1769.7	1775.4	1789.7	1821.1	1818.2	1826.8	1883.9	1972.4	2023.8
52.5°	1824.0	1772.6	1718.3	1724.0	1766.9	1804.0	1792.6	1801.1	1866.8	2032.3	2106.5
55°	1792.6	1724.0	1661.3	1669.8	1718.3	1772.6	1758.3	1769.7	1846.8	2072.3	2175.0
57.5°	1732.6	1652.7	1584.2	1589.9	1661.3	1718.3	1695.5	1709.8	1801.1	2029.5	2137.9
58°	1706.9	1638.4	1572.8	1575.6	1644.1	1706.9	1681.2	1692.6	1786.8	2018.0	2120.8
60°	1598.5	1558.5	1501.4	1504.3	1569.9	1624.1	1609.9	1621.3	1712.6	1935.3	2012.3
62.5°	1450.0	1427.2	1412.9	1412.9	1452.9	1504.3	1518.5	1532.8	1615.6	1749.7	1818.2
65°	1290.2	1290.2	1293.0	1293.0	1318.7	1384.4	1392.9	1430.0	1507.1	1572.8	1624.1
67.5°	1181.7	1176.0	1181.7	1167.4	1178.9	1218.8	1261.6	1295.9	1375.8	1421.5	1438.6
70°	1041.9	1039.0	1041.9	1021.9	1036.1	1070.4	1098.9	1156.0	1238.8	1273.1	1281.6
72.5°	904.8	904.8	910.5	896.3	896.3	933.4	953.4	1016.2	1093.2	1113.2	1116.1
75°	762.1	770.7	770.7	750.7	756.4	779.2	804.9	856.3	927.7	941.9	941.9
77.5°	605.1	636.5	636.5	616.5	625.1	628.0	662.2	687.9	742.1	747.8	725.0
80°	439.6	471.0	496.7	479.5	493.8	476.7	496.7	513.8	568.0	542.3	505.2
82.5°	314.0	336.8	356.8	359.7	345.4	314.0	339.7	342.5	368.2	334.0	314.0
85°	174.1	194.1	219.8	208.4	185.5	165.6	174.1	179.8	177.0	168.4	157.0
87.5°	45.7	48.5	54.2	40.0	37.1	31.4	42.8	42.8	48.5	51.4	48.5
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: P459311

CATALOG NUMBER: GALN-SA7D-735-U-SLR

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	10858.1	10858.1	10858.1	10858.1	10858.1	10858.1	10858.1	10858.1	10858.1	10858.1	10858.1
2.5°	9245.3	9370.9	9642.1	9847.6	10098.8	10404.2	10763.9	11126.4	11517.4	11640.2	11811.4
5°	7649.7	7963.7	8095.0	8469.0	8840.0	9396.6	9990.3	10678.2	11431.8	11794.3	12142.5
7.5°	6536.5	6704.9	6842.0	7116.0	7561.3	8237.8	8982.7	9841.9	10909.5	11437.5	11948.5
10°	5937.1	5954.2	6122.7	6462.3	6850.5	7447.1	8152.1	9114.0	10304.3	10946.6	11546.0
12.5°	5540.4	5466.1	5648.8	6002.8	6442.3	6993.2	7641.2	8557.4	9867.6	10527.0	11252.0
15°	5192.1	5075.1	5212.1	5574.6	6008.5	6656.4	7352.9	8323.4	9696.3	10464.2	11269.1
17.5°	5200.7	4878.1	4926.7	5232.1	5663.1	6322.5	7167.4	8314.8	9956.1	10840.9	11794.3
20°	5842.9	5326.3	5106.5	5163.6	5580.3	6299.6	7253.0	8714.4	10809.6	12099.7	13118.7
22.5°	6473.7	6162.6	5808.7	5691.6	5920.0	6673.5	7798.2	9659.2	12664.9	14608.7	16449.8
25°	6254.0	6519.4	6430.9	6265.4	6316.8	6941.9	8169.2	10435.6	14106.4	16295.7	18025.4
27.5°	5003.7	5486.1	5583.2	5580.3	5600.3	6114.1	7347.2	9913.3	14286.2	16618.2	18270.9
30°	3516.6	3559.4	3610.8	3710.7	3802.0	4261.6	5748.7	8703.0	14206.3	16763.8	18419.3
32.5°	2537.5	2594.6	2666.0	2803.0	3019.9	3605.1	5029.4	8317.7	14628.7	17366.1	18853.2
35°	2320.6	2386.3	2454.8	2611.8	2817.3	3359.6	4744.0	8157.8	15322.3	18342.3	19632.5
37.5°	2252.1	2326.3	2386.3	2500.4	2666.0	3182.6	4484.2	8049.4	16033.1	19375.6	20677.2
40°	2203.6	2289.2	2337.7	2429.1	2543.3	3019.9	4253.0	7963.7	16721.0	20320.4	21516.3
42.5°	2160.8	2249.3	2312.1	2377.7	2471.9	2874.4	4047.5	7878.1	17317.5	21236.6	22352.7
45°	2109.4	2220.7	2300.6	2352.0	2434.8	2751.6	3890.5	7809.6	17996.9	22050.1	23197.6
47.5°	2066.6	2189.3	2289.2	2349.2	2380.6	2666.0	3764.9	7903.8	18813.2	22900.7	23982.5
50°	2069.4	2186.5	2312.1	2406.2	2323.5	2594.6	3687.9	8277.7	19875.1	23911.2	24601.9
52.5°	2160.8	2303.5	2403.4	2426.2	2243.5	2509.0	3647.9	8931.4	21131.0	24804.6	25227.0
55°	2263.5	2412.0	2520.4	2506.1	2200.7	2400.5	3639.3	9627.8	22506.8	25846.4	26040.5
57.5°	2226.4	2443.4	2608.9	2534.7	2203.6	2294.9	3602.2	10190.2	23657.1	26625.7	26845.5
58°	2215.0	2431.9	2620.3	2529.0	2195.0	2263.5	3593.7	10238.7	23817.0	26679.9	26959.7
60°	2103.7	2332.0	2611.8	2486.2	2146.5	2177.9	3499.5	10395.7	23774.2	26400.2	27028.2
62.5°	1901.0	2089.4	2414.8	2277.8	1998.1	2063.7	3288.3	10201.6	22615.3	25052.9	26026.3
65°	1672.7	1812.5	2029.5	2003.8	1786.8	1946.7	3000.0	9433.7	20294.7	22866.5	23891.2
67.5°	1501.4	1615.6	1752.6	1715.5	1607.0	1789.7	2688.8	8135.0	17691.5	20240.4	21530.6
70°	1327.3	1415.8	1484.3	1458.6	1424.3	1635.6	2412.0	6602.2	15196.7	17745.7	18995.9
72.5°	1150.3	1233.1	1290.2	1253.1	1233.1	1472.9	2186.5	5123.6	12002.7	14640.1	16247.2
75°	961.9	1044.7	1084.7	1041.9	1030.4	1298.7	1852.5	3827.7	9005.6	11286.2	12673.5
77.5°	745.0	833.5	884.9	870.6	876.3	1067.5	1495.7	2620.3	6439.5	7692.6	9154.0
80°	522.4	619.4	653.7	639.4	679.3	813.5	1056.1	1664.1	4441.4	4992.3	6022.7
82.5°	322.5	413.9	419.6	433.9	462.4	602.3	796.4	1013.3	2788.7	2882.9	3630.8
85°	162.7	197.0	211.2	234.1	259.7	368.2	453.8	628.0	1795.4	1358.7	2029.5
87.5°	54.2	57.1	68.5	85.6	105.6	151.3	194.1	256.9	445.3	245.5	628.0
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: P459311

CATALOG NUMBER: GALN-SA7D-735-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10858.1	10858.1	10858.1	10858.1	10858.1	10858.1	10858.1	10858.1	10858.1	10858.1
2.5°	12156.8	12399.4	12576.4	12739.1	12582.1	12567.9	12413.7	12165.4	12062.6	12062.6
5°	12873.3	13441.3	13900.8	14194.9	14069.3	13766.7	13267.2	12630.6	12288.1	12228.2
7.5°	13070.2	14192.0	15045.5	15348.0	15136.8	14468.9	13512.7	12439.4	11948.5	11840.0
10°	12950.3	14408.9	15662.0	16141.5	15847.5	14837.1	13532.6	12216.8	11611.6	11486.0
12.5°	12824.7	14437.5	15776.2	16469.8	16278.6	15133.9	13678.2	12071.2	11371.9	11192.0
15°	12916.1	14448.9	15636.3	16352.8	16475.5	15490.7	13918.0	12176.8	11323.3	11132.1
17.5°	13492.7	14665.8	15436.5	16015.9	16447.0	15976.0	14600.2	12682.0	11757.2	11520.3
20°	14697.2	15185.3	15550.7	15998.8	16692.4	16966.5	15996.0	14069.3	12976.0	12767.7
22.5°	18185.3	18096.8	17348.9	17340.4	18345.1	19444.1	19378.4	16889.4	15245.3	15074.0
25°	19492.6	19081.6	17999.7	17737.1	18179.6	19875.1	19629.6	17466.0	15947.4	15530.7
27.5°	18981.7	17962.6	17251.9	17192.0	17046.4	18647.7	19238.5	17700.0	16192.9	15787.6
30°	18950.3	17451.7	16435.5	16555.4	16695.3	18225.2	19455.5	18433.6	16820.9	16387.0
32.5°	19027.3	17523.1	16495.5	16518.3	16935.1	18288.0	19695.2	19232.8	17645.8	17211.9
35°	19338.5	17928.4	16878.0	16823.7	17474.5	18699.1	20103.4	20488.8	18773.3	18279.5
37.5°	19840.8	18736.2	17577.3	17563.0	18507.8	19441.2	20611.5	21756.1	19895.1	19364.1
40°	20580.1	19681.0	18821.8	18744.7	19912.2	20648.6	21270.9	23106.2	21199.5	20517.3
42.5°	21473.5	20814.2	20463.1	20768.5	21890.3	22004.4	22298.4	24353.6	22309.9	21516.3
45°	22301.3	22269.9	22758.0	23568.6	24222.3	23537.2	23371.7	25189.9	23171.9	22309.9
47.5°	23286.1	24136.7	25609.5	26797.0	27482.0	25321.2	24288.0	25735.1	23799.9	23006.3
50°	24285.1	26371.7	28723.7	30379.2	30524.8	27259.4	24918.8	26248.9	24370.7	23545.8
52.5°	25335.5	28155.6	31286.9	33210.8	32928.2	28946.3	25529.6	26597.1	24958.7	24233.7
55°	26248.9	29248.9	32719.8	34566.6	34152.7	29973.9	26189.0	26973.9	25797.9	25187.1
57.5°	26759.8	29340.2	32363.0	33975.7	33527.6	29774.1	26491.5	27253.7	26334.5	25855.0
58°	26834.1	29217.5	32046.2	33633.2	33176.5	29605.7	26488.7	27242.2	26368.8	25886.4
60°	26768.4	28421.1	30867.3	32280.2	31800.7	28549.5	26380.2	27028.2	25934.9	25526.8
62.5°	26160.4	27039.6	28832.1	29859.7	29722.7	26899.7	25934.9	26220.4	24613.4	24219.4
65°	25361.2	25155.7	26226.1	26953.9	27056.7	25663.8	25492.5	24473.5	22917.8	22361.2
67.5°	24390.7	23020.6	23017.8	23431.6	23602.9	23762.7	24570.5	22575.3	20474.5	19886.5
70°	22743.7	19729.5	18821.8	19309.9	19167.2	20517.3	22923.6	19909.3	17528.8	16840.9
72.5°	19723.8	15656.3	14203.4	14831.4	14471.7	16090.2	20057.8	16384.2	14494.6	13649.7
75°	15987.4	11711.5	10213.0	10789.6	10566.9	12205.3	16689.6	11899.9	10395.7	10073.1
77.5°	12413.7	8486.1	7615.5	7535.6	7701.1	9082.6	12242.5	8035.1	6853.4	6633.6
80°	7975.1	6074.1	6125.5	6022.7	6108.4	5725.9	7432.8	5126.5	4641.2	4464.3
82.5°	5249.2	4233.1	5046.6	4658.4	4424.3	3850.6	4875.3	3356.8	2848.7	2751.6
85°	3576.5	3117.0	2837.3	2169.3	2554.7	2965.7	3656.5	1806.8	1432.9	1298.7
87.5°	1615.6	1084.7	796.4	491.0	776.4	896.3	1775.4	211.2	162.7	168.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)