

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: P456469

Luminaire Tested: **GALN-SA7D-727-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456469
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-727-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 38843 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

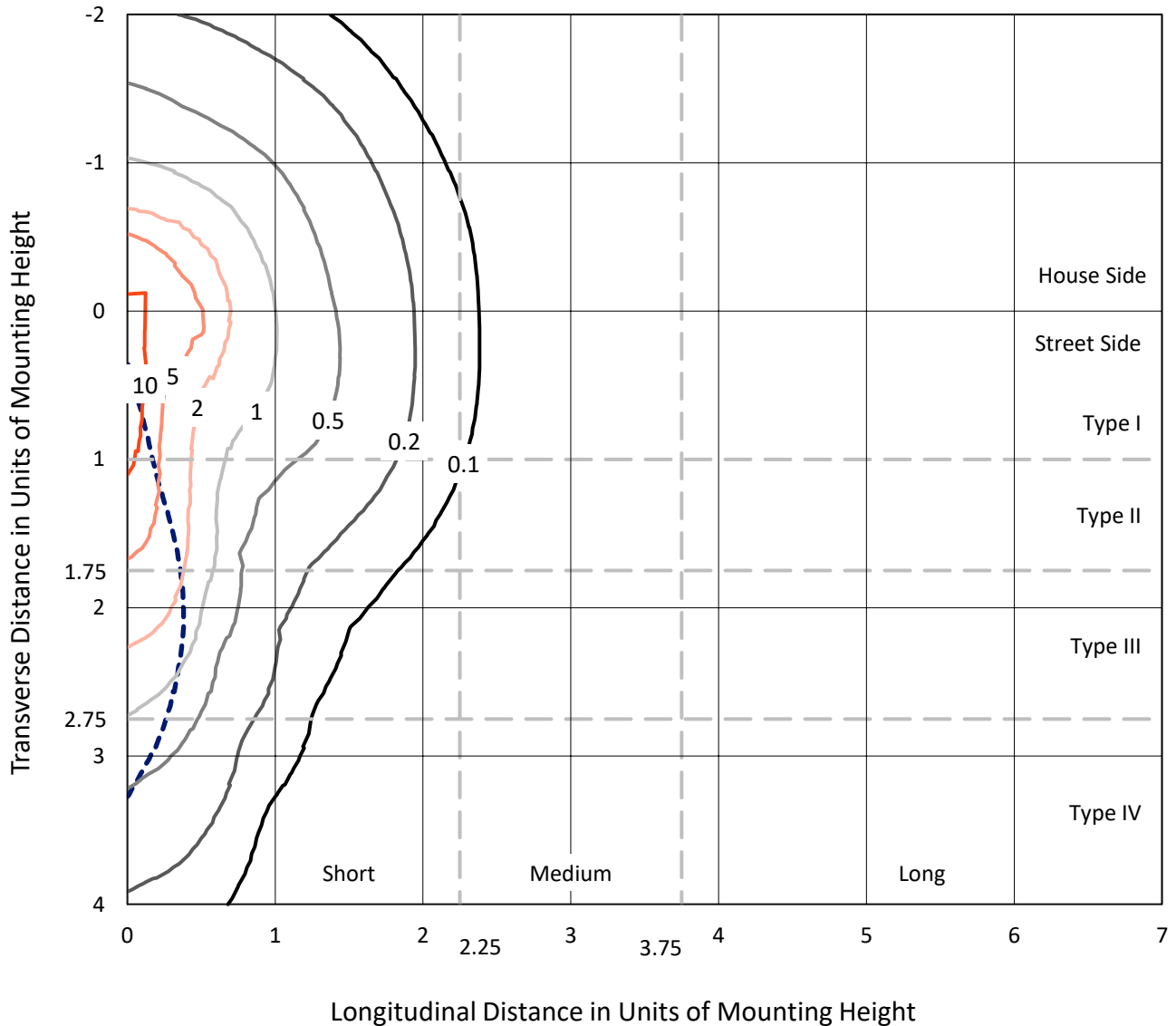
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456469
 CATALOG NUMBER: GALN-SA7D-727-U-SLR

Iso-Footcandle Lines of Horizontal Illumination

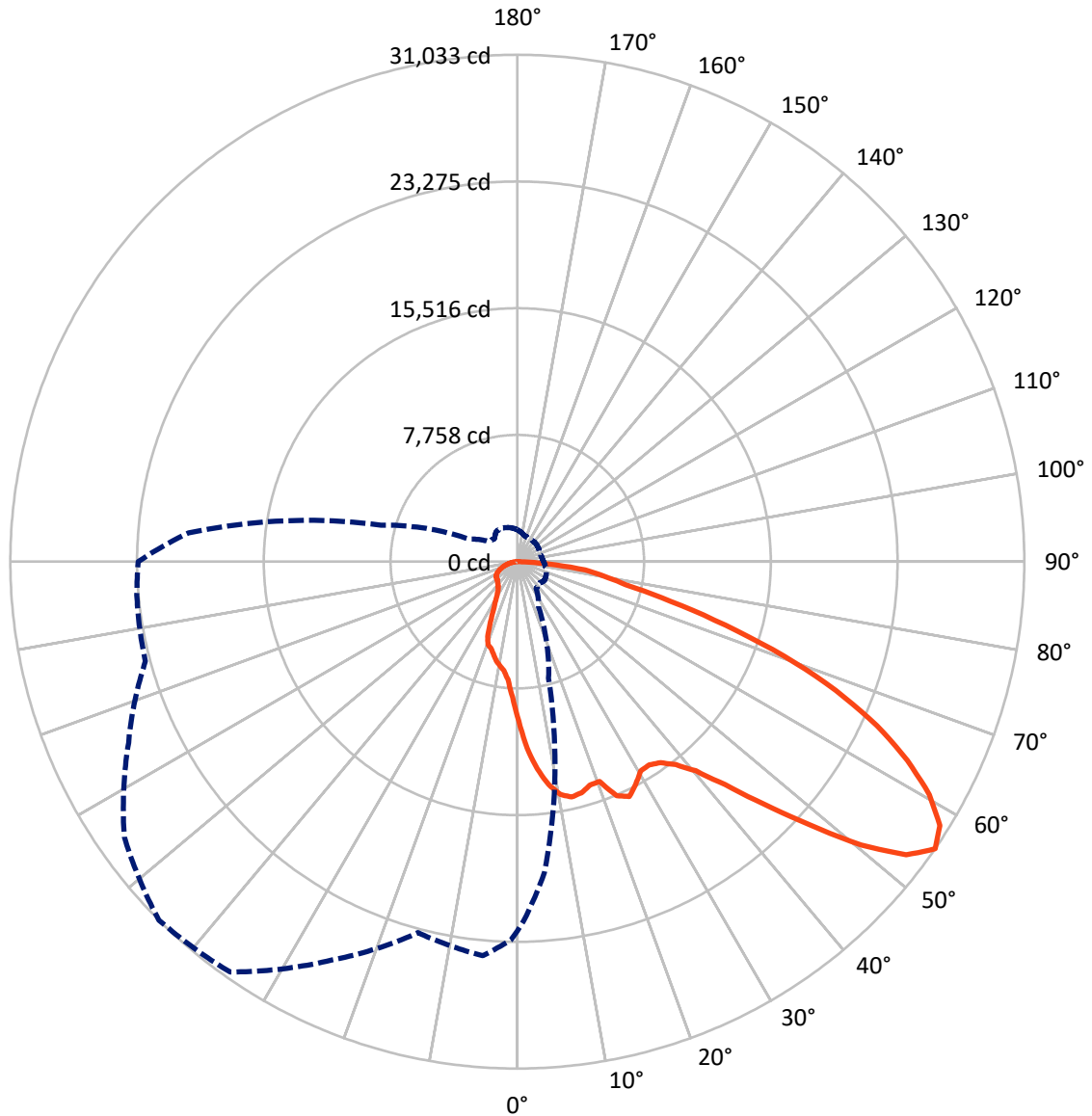
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P456469
CATALOG NUMBER: GALN-SA7D-727-U-SLR

Luminous Intensity Polar Plot



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

REPORT NUMBER: P456469

CATALOG NUMBER: GALN-SA7D-727-U-SLR

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8496.7	0.0	8496.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	30346.3	0.0	30346.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	38843.0	0.0	38843.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	826.2	2.1
10°-20°	2191.9	5.6
20°-30°	3786.6	9.7
30°-40°	4400.6	11.3
40°-50°	6139.7	15.8
50°-60°	8330.9	21.4
60°-70°	7925.9	20.4
70°-80°	4281.8	11.0
80°-90°	959.6	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°	38843.0	100.0
0°-180°	38843.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456469

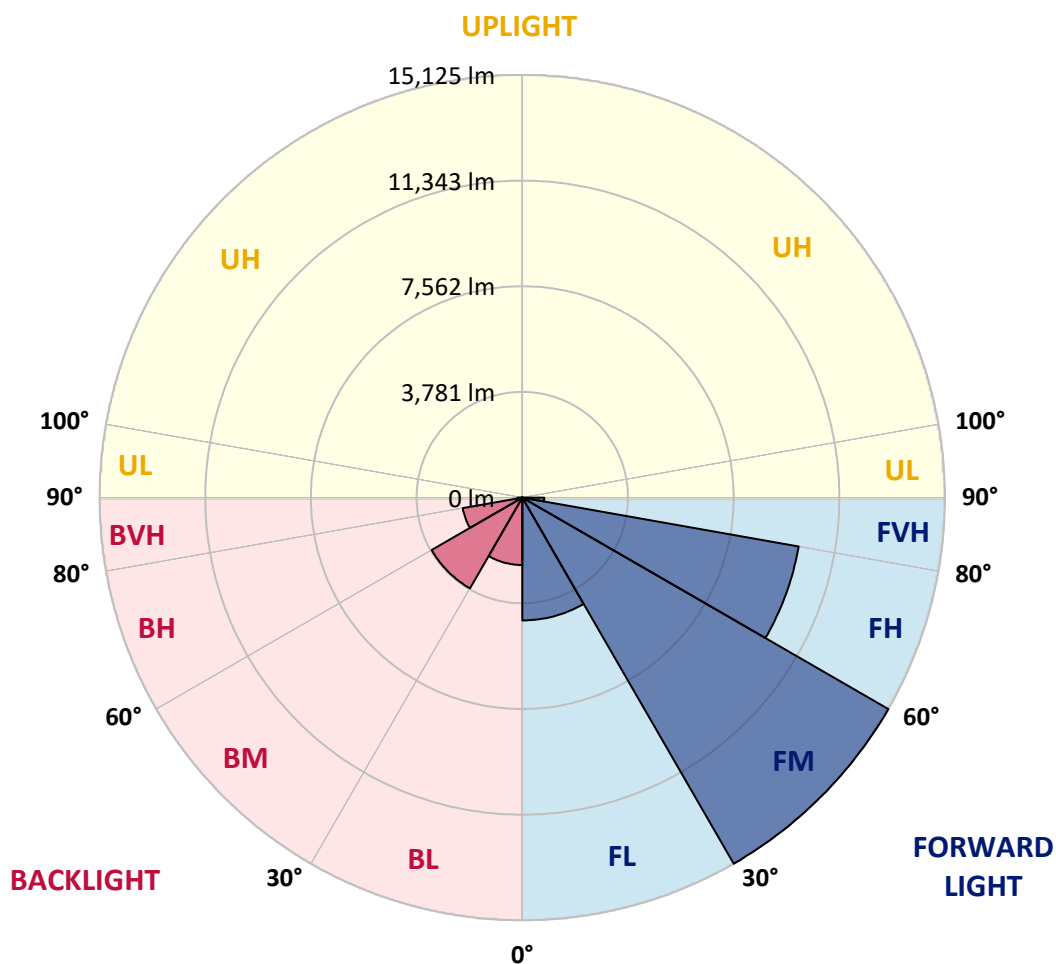
CATALOG NUMBER: GALN-SA7D-727-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4393.2	11.3			
FM	(30°-60°)	15124.6	38.9			
FH	(60°-80°)	10044.1	25.9			G4/12000
FVH	(80°-90°)	784.2	2.0			G5
BL	(0°-30°)	2411.4	6.2	B3/2500		
BM	(30°-60°)	3746.5	9.6	B3/5000		
BH	(60°-80°)	2163.5	5.6	B3/2500		G3/2500
BVH	(80°-90°)	175.4	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P456469

CATALOG NUMBER: GALN-SA7D-727-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9748.1	9748.1	9748.1	9748.1	9748.1	9748.1	9748.1	9748.1	9748.1	9748.1	9748.1
2.5°	10829.5	10788.5	10673.2	10370.8	10065.8	9755.8	9517.4	9220.2	8910.1	8743.5	8530.8
5°	10978.1	10932.0	10660.4	9978.7	9361.1	8712.8	8195.1	7741.6	7557.1	7285.4	7067.6
7.5°	10629.6	10609.1	10201.7	9222.7	8377.1	7528.9	6942.0	6578.2	6247.6	6124.6	6150.2
10°	10311.8	10229.8	9719.9	8441.2	7454.6	6765.2	6345.0	5988.8	5755.6	5694.1	5706.9
12.5°	10047.9	9937.7	9335.5	7915.8	7052.2	6501.3	5965.7	5594.1	5381.4	5440.4	5640.3
15°	9994.1	9845.5	9174.1	7736.4	6831.9	6122.0	5535.2	5107.2	4948.4	5076.5	5396.8
17.5°	10342.6	10155.5	9450.8	7795.4	6621.7	5735.1	5015.0	4525.5	4392.3	4597.3	5015.0
20°	11462.4	11185.7	10314.4	8136.2	6601.2	5542.9	4712.6	4220.6	4277.0	4666.5	5102.1
22.5°	13533.0	13117.9	11826.3	8633.4	6708.8	5494.2	4651.1	4394.8	4704.9	5035.5	5322.5
25°	13943.0	13617.6	12098.0	8746.1	6685.8	5460.9	4825.3	4953.5	5299.4	5463.4	5363.5
27.5°	14173.7	13802.1	12080.0	8187.5	5978.5	4953.5	4612.7	4825.3	4912.5	4753.6	4482.0
30°	14711.8	14324.9	12385.0	7600.6	4922.7	3674.7	3221.2	3134.0	3193.0	3223.7	3126.4
32.5°	15452.4	15070.6	12959.0	7216.2	4256.5	3039.2	2593.3	2470.3	2442.1	2408.8	2370.4
35°	16410.8	15824.0	13522.8	6970.2	3982.3	2811.2	2401.1	2306.3	2267.9	2221.8	2180.8
37.5°	17384.6	16769.6	14235.2	6711.4	3800.3	2652.3	2273.0	2229.4	2162.8	2114.1	2055.2
40°	18419.9	17730.5	14883.5	6485.9	3623.5	2549.8	2180.8	2175.6	2088.5	2032.1	1962.9
42.5°	19316.8	18606.9	15462.6	6347.5	3487.7	2442.1	2124.4	2139.8	2050.1	1965.5	1875.8
45°	20029.2	19332.1	15998.2	6347.5	3377.5	2334.5	2114.1	2103.9	2014.2	1909.1	1806.6
47.5°	20654.4	19934.4	16521.0	6509.0	3308.3	2244.8	2057.8	2075.7	1983.4	1850.2	1750.2
50°	21138.8	20503.2	17225.7	6760.1	3239.1	2173.1	1986.0	2083.4	1957.8	1819.4	1704.1
52.5°	21756.4	21187.5	18073.9	7103.5	3180.2	2093.6	1921.9	2083.4	1955.3	1822.0	1696.4
55°	22612.3	22012.6	19096.4	7387.9	3085.4	2019.3	1865.6	2024.4	1947.6	1809.2	1675.9
57.5°	23211.9	22763.4	19819.0	7577.6	2949.5	1924.5	1814.3	1968.1	1914.3	1760.5	1614.4
58°	23240.1	22801.9	19924.1	7621.1	2916.2	1906.6	1801.5	1942.4	1898.9	1740.0	1593.9
60°	22917.2	22540.5	19944.6	7559.6	2726.6	1816.9	1734.9	1837.4	1816.9	1619.6	1483.7
62.5°	21743.5	21341.2	19116.9	7059.9	2475.5	1706.7	1632.4	1696.4	1650.3	1450.4	1324.9
65°	20075.3	19334.7	17415.3	6275.8	2296.1	1588.8	1494.0	1499.1	1450.4	1306.9	1196.7
67.5°	17853.5	17025.8	14745.1	5289.2	2160.3	1458.1	1330.0	1317.2	1258.2	1166.0	1076.3
70°	15119.3	14552.9	11982.7	4302.6	2009.1	1314.6	1145.5	1137.8	1101.9	1032.7	953.3
72.5°	12254.3	11534.2	9676.3	3444.1	1824.6	1176.2	973.8	989.2	943.0	894.3	822.6
75°	9043.4	8571.8	7480.2	2762.5	1576.0	1025.0	812.3	817.5	797.0	745.7	689.3
77.5°	5955.4	5814.5	5350.7	1814.3	1212.1	814.9	663.7	668.8	653.5	607.3	548.4
80°	4007.9	3913.1	3626.1	1168.5	809.8	589.4	512.5	517.6	515.1	466.4	387.0
82.5°	2470.3	2429.3	2337.1	789.3	561.2	422.8	338.3	353.6	381.8	328.0	263.9
85°	1166.0	1168.5	1412.0	430.5	330.6	271.6	184.5	197.3	197.3	197.3	148.6
87.5°	151.2	158.9	194.8	181.9	120.4	102.5	66.6	56.4	48.7	64.1	46.1
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: P456469
 CATALOG NUMBER: GALN-SA7D-727-U-SLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9748.1	9748.1	9748.1	9748.1	9748.1	9748.1	9748.1	9748.1	9748.1	9748.1	9748.1
2.5°	8456.5	8405.3	8295.1	8269.5	8254.1	8297.7	8182.3	8213.1	8161.8	8305.3	8282.3
5°	7080.4	7085.5	7175.2	7234.2	7254.7	7234.2	7157.3	7024.0	6921.5	6880.5	6890.8
7.5°	6101.5	6191.2	6345.0	6516.7	6673.0	6719.1	6675.5	6421.8	6145.1	5970.8	5914.4
10°	5776.1	5896.5	6073.3	6209.1	6347.5	6457.7	6480.8	6283.5	5955.4	5542.9	5381.4
12.5°	5794.0	5958.0	6127.1	6170.7	6157.9	6201.5	6181.0	6147.6	5932.4	5407.1	5138.0
15°	5624.9	5819.6	5937.5	5914.4	5873.4	5835.0	5781.2	5696.6	5619.8	5250.7	4953.5
17.5°	5235.4	5435.2	5532.6	5540.3	5540.3	5530.1	5399.4	5368.6	5358.4	5179.0	4997.0
20°	5307.1	5417.3	5373.7	5302.0	5322.5	5391.7	5314.8	5299.4	5358.4	5437.8	5404.5
22.5°	5348.1	5309.7	4981.7	4663.9	4592.2	4807.4	4851.0	5022.7	5261.0	5548.0	5735.1
25°	5094.4	4784.3	4197.5	3838.8	3636.3	3836.2	4097.6	4415.3	4771.5	5140.5	5358.4
27.5°	4259.0	4023.3	3603.0	3280.1	3103.3	3134.0	3357.0	3646.6	3977.1	4225.7	4384.6
30°	3208.4	3103.3	2885.5	2775.3	2667.7	2642.0	2736.8	2847.0	2993.1	3023.9	3064.9
32.5°	2362.7	2347.3	2360.1	2324.3	2303.8	2301.2	2273.0	2298.6	2314.0	2332.0	2296.1
35°	2137.2	2116.7	2080.8	2070.6	2057.8	2062.9	2050.1	2037.3	2047.5	2062.9	2073.1
37.5°	2021.9	1991.1	1939.9	1921.9	1921.9	1929.6	1909.1	1904.0	1921.9	1970.6	1996.3
40°	1932.2	1896.3	1837.4	1814.3	1829.7	1850.2	1822.0	1811.7	1855.3	1906.6	1947.6
42.5°	1847.6	1819.4	1763.1	1737.4	1750.2	1788.7	1747.7	1740.0	1796.4	1852.7	1901.4
45°	1775.9	1747.7	1696.4	1683.6	1688.7	1724.6	1696.4	1696.4	1750.2	1811.7	1855.3
47.5°	1719.5	1683.6	1650.3	1640.1	1645.2	1665.7	1660.6	1660.6	1711.8	1775.9	1819.4
50°	1663.1	1632.4	1588.8	1593.9	1606.7	1634.9	1632.4	1640.1	1691.3	1770.7	1816.9
52.5°	1637.5	1591.4	1542.7	1547.8	1586.2	1619.6	1609.3	1617.0	1675.9	1824.6	1891.2
55°	1609.3	1547.8	1491.4	1499.1	1542.7	1591.4	1578.6	1588.8	1658.0	1860.4	1952.7
57.5°	1555.5	1483.7	1422.2	1427.4	1491.4	1542.7	1522.2	1535.0	1617.0	1822.0	1919.4
58°	1532.4	1470.9	1412.0	1414.5	1476.0	1532.4	1509.4	1519.6	1604.2	1811.7	1904.0
60°	1435.0	1399.2	1347.9	1350.5	1409.4	1458.1	1445.3	1455.5	1537.6	1737.4	1806.6
62.5°	1301.8	1281.3	1268.5	1268.5	1304.4	1350.5	1363.3	1376.1	1450.4	1570.9	1632.4
65°	1158.3	1158.3	1160.9	1160.9	1183.9	1242.9	1250.5	1283.9	1353.0	1412.0	1458.1
67.5°	1060.9	1055.8	1060.9	1048.1	1058.3	1094.2	1132.7	1163.4	1235.2	1276.2	1291.5
70°	935.3	932.8	935.3	917.4	930.2	961.0	986.6	1037.8	1112.2	1142.9	1150.6
72.5°	812.3	812.3	817.5	804.7	804.7	838.0	855.9	912.3	981.5	999.4	1002.0
75°	684.2	691.9	691.9	674.0	679.1	699.6	722.6	768.8	832.8	845.7	845.7
77.5°	543.3	571.5	571.5	553.5	561.2	563.8	594.5	617.6	666.3	671.4	650.9
80°	394.6	422.8	445.9	430.5	443.3	428.0	445.9	461.3	510.0	486.9	453.6
82.5°	281.9	302.4	320.3	322.9	310.1	281.9	304.9	307.5	330.6	299.8	281.9
85°	156.3	174.3	197.3	187.1	166.6	148.6	156.3	161.4	158.9	151.2	140.9
87.5°	41.0	43.6	48.7	35.9	33.3	28.2	38.4	38.4	43.6	46.1	43.6
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: P456469

CATALOG NUMBER: GALN-SA7D-727-U-SLR

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9748.1	9748.1	9748.1	9748.1	9748.1	9748.1	9748.1	9748.1	9748.1	9748.1	9748.1
2.5°	8300.2	8413.0	8656.4	8840.9	9066.4	9340.6	9663.5	9989.0	10340.0	10450.2	10604.0
5°	6867.7	7149.6	7267.5	7603.2	7936.3	8436.0	8969.0	9586.6	10263.2	10588.6	10901.2
7.5°	5868.3	6019.5	6142.5	6388.5	6788.3	7395.6	8064.5	8835.8	9794.2	10268.3	10727.0
10°	5330.2	5345.6	5496.7	5801.7	6150.2	6685.8	7318.7	8182.3	9250.9	9827.5	10365.7
12.5°	4974.0	4907.4	5071.4	5389.1	5783.8	6278.3	6860.0	7682.6	8858.9	9450.8	10101.7
15°	4661.3	4556.3	4679.3	5004.7	5394.2	5975.9	6601.2	7472.5	8705.1	9394.4	10117.1
17.5°	4669.0	4379.5	4423.0	4697.2	5084.2	5676.1	6434.7	7464.8	8938.3	9732.7	10588.6
20°	5245.6	4781.8	4584.5	4635.7	5009.9	5655.6	6511.5	7823.6	9704.5	10862.8	11777.6
22.5°	5811.9	5532.6	5214.9	5109.8	5314.8	5991.3	7001.0	8671.8	11370.2	13115.3	14768.2
25°	5614.6	5852.9	5773.5	5624.9	5671.0	6232.2	7334.1	9368.8	12664.3	14629.8	16182.7
27.5°	4492.2	4925.3	5012.4	5009.9	5027.8	5489.1	6596.1	8899.9	12825.7	14919.4	16403.1
30°	3157.1	3195.5	3241.7	3331.4	3413.4	3825.9	5161.0	7813.3	12754.0	15050.1	16536.4
32.5°	2278.1	2329.4	2393.5	2516.5	2711.2	3236.5	4515.3	7467.4	13133.3	15590.8	16925.9
35°	2083.4	2142.3	2203.8	2344.8	2529.3	3016.2	4259.0	7323.9	13756.0	16467.2	17625.5
37.5°	2021.9	2088.5	2142.3	2244.8	2393.5	2857.3	4025.8	7226.5	14394.0	17394.8	18563.4
40°	1978.3	2055.2	2098.8	2180.8	2283.3	2711.2	3818.3	7149.6	15011.6	18243.0	19316.8
42.5°	1939.9	2019.3	2075.7	2134.6	2219.2	2580.5	3633.7	7072.7	15547.2	19065.6	20067.6
45°	1893.8	1993.7	2065.4	2111.6	2185.9	2470.3	3492.8	7011.2	16157.1	19796.0	20826.1
47.5°	1855.3	1965.5	2055.2	2109.0	2137.2	2393.5	3380.1	7095.8	16890.0	20559.6	21530.8
50°	1857.9	1962.9	2075.7	2160.3	2085.9	2329.4	3310.9	7431.5	17843.3	21466.8	22086.9
52.5°	1939.9	2068.0	2157.7	2178.2	2014.2	2252.5	3275.0	8018.3	18970.8	22268.9	22648.1
55°	2032.1	2165.4	2262.8	2250.0	1975.8	2155.1	3267.3	8643.6	20206.0	23204.2	23378.5
57.5°	1998.8	2193.6	2342.2	2275.6	1978.3	2060.3	3234.0	9148.4	21238.7	23903.8	24101.1
58°	1988.6	2183.3	2352.5	2270.5	1970.6	2032.1	3226.3	9192.0	21382.2	23952.5	24203.6
60°	1888.6	2093.6	2344.8	2232.0	1927.1	1955.3	3141.7	9332.9	21343.8	23701.4	24265.1
62.5°	1706.7	1875.8	2167.9	2044.9	1793.8	1852.7	2952.1	9158.7	20303.4	22491.8	23365.7
65°	1501.7	1627.2	1822.0	1798.9	1604.2	1747.7	2693.3	8469.3	18220.0	20528.9	21448.8
67.5°	1347.9	1450.4	1573.4	1540.1	1442.7	1606.7	2414.0	7303.4	15882.9	18171.3	19329.6
70°	1191.6	1271.0	1332.5	1309.5	1278.7	1468.4	2165.4	5927.3	13643.2	15931.6	17054.0
72.5°	1032.7	1107.0	1158.3	1125.0	1107.0	1322.3	1962.9	4599.8	10775.7	13143.5	14586.2
75°	863.6	937.9	973.8	935.3	925.1	1166.0	1663.1	3436.4	8085.0	10132.5	11377.9
77.5°	668.8	748.3	794.4	781.6	786.7	958.4	1342.8	2352.5	5781.2	6906.2	8218.2
80°	469.0	556.1	586.8	574.0	609.9	730.3	948.2	1494.0	3987.4	4482.0	5407.1
82.5°	289.6	371.6	376.7	389.5	415.1	540.7	715.0	909.7	2503.6	2588.2	3259.6
85°	146.1	176.8	189.6	210.1	233.2	330.6	407.5	563.8	1611.9	1219.8	1822.0
87.5°	48.7	51.3	61.5	76.9	94.8	135.8	174.3	230.6	399.8	220.4	563.8
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: P456469

CATALOG NUMBER: GALN-SA7D-727-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9748.1	9748.1	9748.1	9748.1	9748.1	9748.1	9748.1	9748.1	9748.1	9748.1
2.5°	10914.1	11131.9	11290.8	11436.8	11295.9	11283.1	11144.7	10921.7	10829.5	10829.5
5°	11557.3	12067.2	12479.8	12743.7	12631.0	12359.4	11910.9	11339.4	11031.9	10978.1
7.5°	11734.1	12741.2	13507.4	13779.0	13589.4	12989.7	12131.3	11167.7	10727.0	10629.6
10°	11626.5	12935.9	14060.9	14491.4	14227.5	13320.3	12149.2	10967.9	10424.6	10311.8
12.5°	11513.7	12961.6	14163.4	14786.1	14614.4	13586.8	12279.9	10837.2	10209.3	10047.9
15°	11595.7	12971.8	14037.8	14681.1	14791.2	13907.2	12495.2	10932.0	10165.8	9994.1
17.5°	12113.3	13166.6	13858.5	14378.7	14765.6	14342.8	13107.6	11385.6	10555.3	10342.6
20°	13194.8	13633.0	13961.0	14363.3	14986.0	15232.0	14360.7	12631.0	11649.5	11462.4
22.5°	16326.2	16246.8	15575.4	15567.7	16469.7	17456.3	17397.4	15162.8	13686.8	13533.0
25°	17499.9	17130.9	16159.7	15923.9	16321.1	17843.3	17622.9	15680.5	14317.2	13943.0
27.5°	17041.2	16126.4	15488.3	15434.5	15303.8	16741.4	17271.8	15890.6	14537.5	14173.7
30°	17013.0	15667.6	14755.4	14863.0	14988.6	16362.1	17466.6	16549.2	15101.3	14711.8
32.5°	17082.2	15731.7	14809.2	14829.7	15203.8	16418.5	17681.8	17266.7	15841.9	15452.4
35°	17361.5	16095.6	15152.6	15103.9	15688.1	16787.5	18048.3	18394.2	16854.1	16410.8
37.5°	17812.5	16820.8	15780.4	15767.6	16615.8	17453.8	18504.4	19532.0	17861.2	17384.6
40°	18476.2	17669.0	16897.7	16828.5	17876.6	18537.7	19096.4	20744.1	19032.3	18419.9
42.5°	19278.3	18686.4	18371.2	18645.4	19652.5	19755.0	20018.9	21864.0	20029.2	19316.8
45°	20021.5	19993.3	20431.5	21159.3	21746.1	21131.1	20982.5	22614.8	20803.1	20029.2
47.5°	20905.6	21669.2	22991.5	24057.6	24672.6	22732.7	21805.0	23104.3	21366.8	20654.4
50°	21802.5	23675.7	25787.3	27273.6	27404.3	24472.7	22371.4	23565.5	21879.4	21138.8
52.5°	22745.5	25277.3	28088.5	29815.7	29562.0	25987.2	22919.8	23878.2	22407.2	21756.4
55°	23565.5	26258.8	29374.9	31032.9	30661.3	26909.7	23511.7	24216.4	23160.6	22612.3
57.5°	24024.2	26340.8	29054.6	30502.5	30100.1	26730.3	23783.4	24467.6	23642.4	23211.9
58°	24090.9	26230.6	28770.1	30194.9	29784.9	26579.1	23780.8	24457.3	23673.2	23240.1
60°	24031.9	25515.7	27711.8	28980.3	28549.8	25631.0	23683.4	24265.1	23283.7	22917.2
62.5°	23486.1	24275.4	25884.7	26807.2	26684.2	24149.8	23283.7	23539.9	22097.2	21743.5
65°	22768.6	22584.1	23545.0	24198.5	24290.7	23040.2	22886.5	21971.6	20575.0	20075.3
67.5°	21897.3	20667.3	20664.7	21036.3	21190.0	21333.5	22058.7	20267.5	18381.4	17853.5
70°	20418.7	17712.6	16897.7	17335.9	17207.8	18419.9	20580.1	17874.0	15736.8	15119.3
72.5°	17707.5	14055.8	12751.4	13315.2	12992.3	14445.3	18007.3	14709.2	13012.8	12254.3
75°	14353.0	10514.3	9168.9	9686.6	9486.7	10957.6	14983.4	10683.4	9332.9	9043.4
77.5°	11144.7	7618.6	6837.0	6765.2	6913.9	8154.1	10990.9	7213.7	6152.8	5955.4
80°	7159.9	5453.2	5499.3	5407.1	5483.9	5140.5	6673.0	4602.4	4166.8	4007.9
82.5°	4712.6	3800.3	4530.7	4182.1	3972.0	3456.9	4376.9	3013.6	2557.5	2470.3
85°	3210.9	2798.3	2547.2	1947.6	2293.5	2662.5	3282.7	1622.1	1286.4	1166.0
87.5°	1450.4	973.8	715.0	440.8	697.0	804.7	1593.9	189.6	146.1	151.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)