

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: P531824

Luminaire Tested: **GALN-SA7A-827-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-827-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17439 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

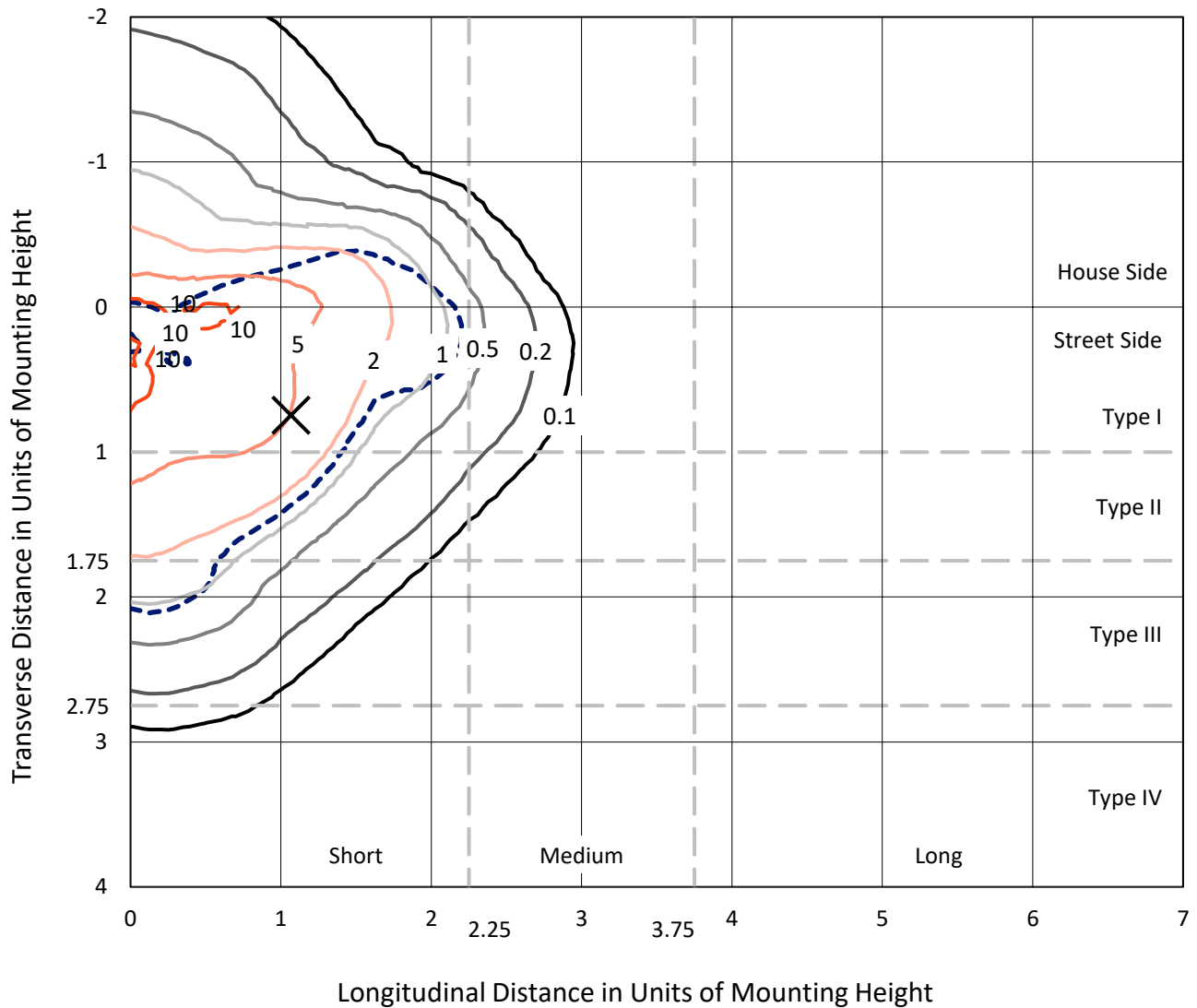
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531824
 CATALOG NUMBER: GALN-SA7A-827-U-SLL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

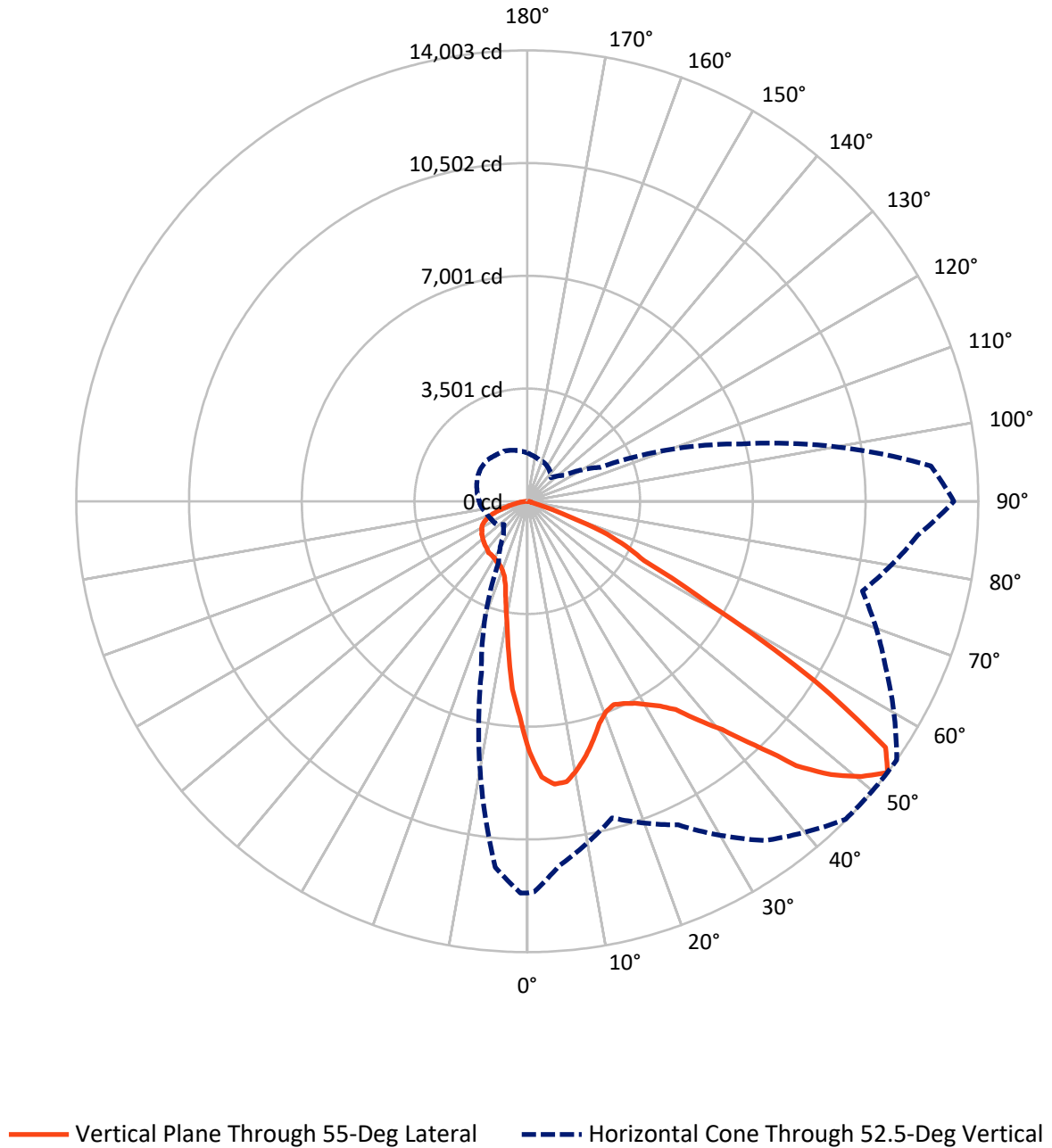
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA7A-827-U-SLL-GRSWH

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5319.8	0.0	5319.8
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	12119.2	0.0	12119.2
	% Fixture	69.5	0.0	69.5
Total	Lumens	17439.0	0.0	17439.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.3	3.4
10°-20°	1281.4	7.3
20°-30°	1943.0	11.1
30°-40°	2807.4	16.1
40°-50°	3751.4	21.5
50°-60°	4187.4	24.0
60°-70°	2297.0	13.2
70°-80°	496.6	2.8
80°-90°	80.3	0.5
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°	17439.0	100.0
0°-180°	17439.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531824

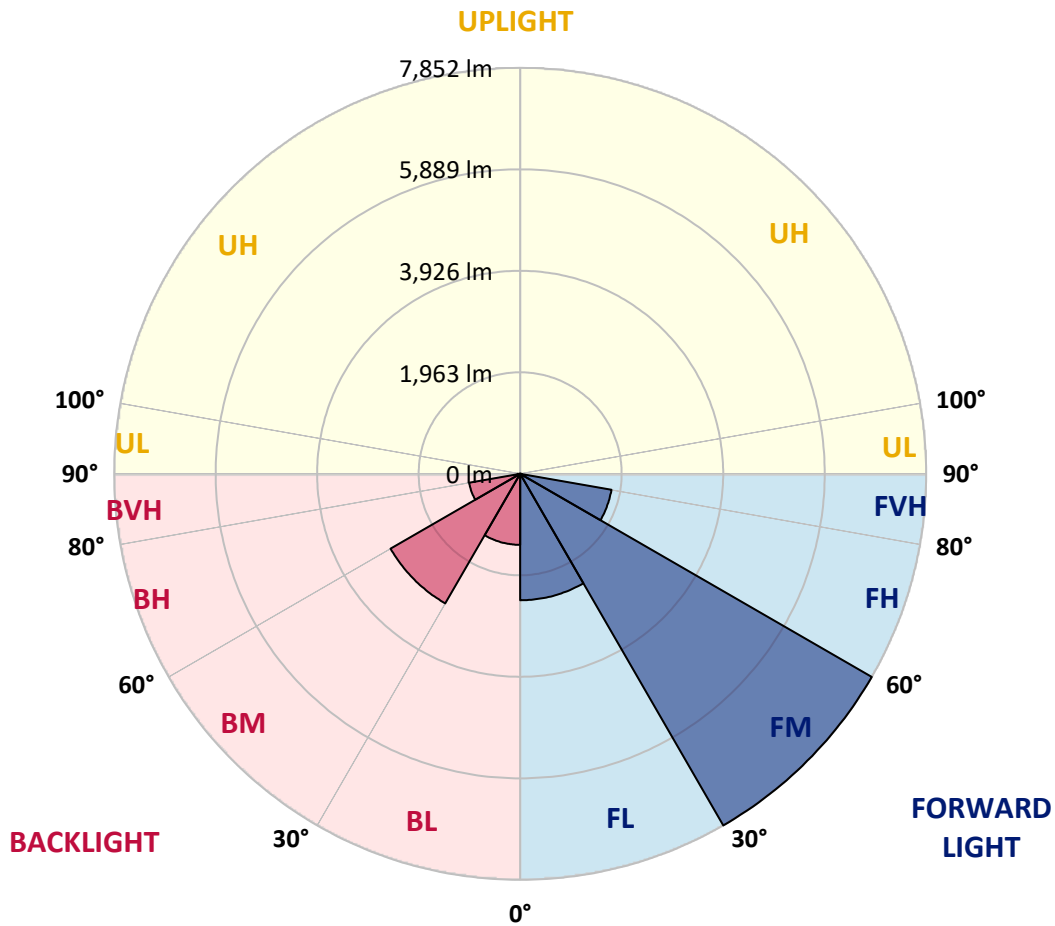
CATALOG NUMBER: GALN-SA7A-827-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2445.3	14.0			
FM (30°-60°)	7851.9	45.0			
FH (60°-80°)	1792.3	10.3			G1/1800
FVH (80°-90°)	29.7	0.2			G1/100
BL (0°-30°)	1373.5	7.9	B3/2500		
BM (30°-60°)	2894.4	16.6	B3/5000		
BH (60°-80°)	1001.3	5.7	B3/2500		G3/2500
BVH (80°-90°)	50.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P531824

CATALOG NUMBER: GALN-SA7A-827-U-SLL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7779.1	7779.1	7779.1	7779.1	7779.1	7779.1	7779.1	7779.1	7779.1	7779.1	7779.1
2.5°	8163.6	8117.8	8158.6	8352.1	8464.1	8540.5	8588.9	8581.2	8397.9	8219.7	8219.7
5°	7924.3	7865.7	7949.7	8387.7	8828.2	8866.4	8930.1	8825.7	8555.8	8229.8	7822.4
7.5°	7231.7	7275.0	7415.0	7990.5	8563.4	8851.2	8927.6	8795.1	8357.2	7748.6	7150.2
10°	6633.3	6735.1	7058.5	7679.8	8206.9	8581.2	8665.3	8479.4	8133.1	7387.0	6852.3
12.5°	6427.0	6363.4	6722.4	7343.7	7847.9	8049.1	8087.3	8100.0	7865.7	7203.7	6551.8
15°	6401.6	6442.3	6722.4	7193.5	7504.1	7514.3	7578.0	7677.3	7707.8	7328.4	6691.8
17.5°	6768.2	6719.9	7007.6	7381.9	7234.2	7086.5	7101.8	7244.4	7496.5	7435.4	7132.4
20°	7310.6	7420.1	7646.7	7608.5	7211.3	6837.0	6839.5	6974.5	7471.0	7878.5	7746.0
22.5°	8212.0	8319.0	8487.0	8026.1	7211.3	6763.1	6676.6	6859.9	7634.0	8405.5	8438.7
25°	9034.5	9230.6	9276.4	8734.0	7572.9	6831.9	6775.9	6956.7	7797.0	8919.9	9233.1
27.5°	9783.1	9854.4	10055.6	9189.8	7774.1	6877.7	6872.6	7104.4	8003.2	9177.1	9943.6
30°	10373.9	10366.2	10480.8	9477.6	8094.9	7134.9	6887.9	7325.9	8273.1	9602.3	10600.5
32.5°	10776.2	10862.8	11104.7	9877.3	8229.8	7379.4	7185.8	7585.6	8601.6	9803.5	11064.0
35°	11484.1	11634.3	11328.8	10098.9	8657.6	7621.3	7394.6	7939.6	8764.6	10022.5	11631.8
37.5°	12151.3	12036.7	11726.0	10218.6	8935.2	8069.4	7858.1	8624.5	9271.3	10498.7	12008.7
40°	12579.0	12576.5	12023.9	10315.3	9131.3	8754.4	8741.7	9319.7	9892.6	10799.1	12431.4
42.5°	12764.9	12943.2	12146.2	10305.1	9543.8	9584.5	9841.7	10358.6	10333.1	10860.2	12421.2
44°	13019.6	13126.5	12357.5	10328.1	9818.8	10144.7	10750.8	11079.2	10717.6	10827.1	12408.4
45°	13009.4	13017.0	12057.0	10358.6	10053.0	10613.2	11155.6	11710.7	11056.3	10755.8	12576.5
47.5°	12711.5	12624.9	11802.4	10132.0	10783.9	11850.8	12352.4	12688.5	11473.9	10603.1	12367.7
50°	12123.2	12023.9	11183.6	10035.2	10936.6	12619.8	13312.4	13434.6	11853.3	10452.8	12161.4
52.5°	12164.0	12136.0	11359.3	10180.4	11089.4	12861.7	13971.9	14002.5	12283.7	10768.6	12164.0
55°	12892.2	12795.5	11863.5	10361.2	10977.4	12579.0	13551.8	13498.3	12138.5	10577.6	12388.1
57.5°	11797.3	11861.0	11165.8	9645.6	9607.4	10226.2	10654.0	10521.6	10129.4	9546.3	11524.8
60°	9518.3	9699.1	9765.3	8066.9	7249.5	6931.2	6803.9	6569.6	6635.8	7842.8	10124.3
62.5°	8163.6	8153.5	8568.5	7313.2	4749.0	4084.4	4023.3	4076.7	4840.6	7720.6	9915.5
65°	6472.9	6646.0	6773.3	6197.9	3758.4	3032.7	3030.2	3368.8	4188.8	6452.5	8005.8
67.5°	4109.8	4336.5	4494.3	3964.7	2513.3	2159.3	2100.8	2508.2	2902.9	4232.1	4820.3
70°	2317.2	2424.1	2495.4	2286.6	1599.1	1120.4	1054.2	1151.0	1754.4	2739.9	2857.0
72.5°	893.8	942.2	1038.9	1046.6	603.5	361.6	292.8	351.4	738.4	1084.8	1033.8
75°	137.5	147.7	208.8	249.5	173.2	132.4	140.1	145.1	206.3	280.1	234.3
77.5°	66.2	66.2	63.7	73.8	86.6	94.2	101.9	112.0	122.2	135.0	129.9
80°	43.3	43.3	43.3	50.9	63.7	76.4	86.6	91.7	96.8	106.9	101.9
82.5°	28.0	28.0	28.0	38.2	50.9	63.7	68.8	81.5	91.7	106.9	99.3
85°	15.3	15.3	15.3	25.5	38.2	53.5	50.9	40.7	22.9	2.5	5.1
87.5°	5.1	5.1	5.1	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P531824

CATALOG NUMBER: GALN-SA7A-827-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7779.1	7779.1	7779.1	7779.1	7779.1	7779.1	7779.1	7779.1	7779.1	7779.1	7779.1
2.5°	8005.8	7888.6	7878.5	7639.1	7425.2	7320.8	7236.8	7002.5	7053.4	6918.5	6915.9
5°	7618.7	7379.4	6992.3	6674.0	6355.7	6292.1	6014.5	5772.6	5780.2	5607.1	5637.7
7.5°	6923.6	6758.1	6287.0	5787.9	5365.2	5064.7	4802.4	4644.6	4443.4	4374.7	4339.0
10°	6483.0	6279.3	5749.7	5123.3	4649.7	4489.2	4237.2	4097.1	3890.8	3789.0	3717.7
12.5°	6289.5	5991.6	5329.5	4692.9	4377.2	4211.7	3997.8	3743.2	3498.7	3404.5	3274.6
15°	6309.9	5953.4	5207.3	4519.8	4140.4	3819.5	3628.6	3345.9	3096.4	2930.9	2836.6
17.5°	6618.0	6185.1	5263.3	4387.4	3842.5	3440.1	3065.8	2760.3	2561.6	2436.9	2406.3
20°	7346.3	6758.1	5357.6	4173.5	3544.5	3042.9	2582.0	2263.7	2110.9	2108.4	2110.9
22.5°	7952.3	7369.2	5548.5	4046.2	3246.6	2533.6	2075.3	1973.4	1942.9	2006.5	2014.2
25°	8769.7	8056.7	5877.0	3980.0	2971.6	2159.3	1876.7	1838.5	1835.9	1917.4	1920.0
27.5°	9607.4	8657.6	6073.1	3786.4	2691.5	1965.8	1757.0	1749.4	1790.1	1876.7	1869.0
30°	10177.8	9161.8	6427.0	3554.7	2360.5	1795.2	1708.6	1718.8	1774.8	1841.0	1851.2
32.5°	10842.4	9658.4	6518.7	3427.4	2156.8	1652.6	1591.5	1614.4	1685.7	1790.1	1846.1
35°	11603.8	10009.8	6658.7	3254.3	2080.4	1543.1	1512.5	1538.0	1624.6	1693.3	1754.4
37.5°	12166.5	10631.1	6684.2	3119.3	1996.3	1482.0	1433.6	1517.6	1568.6	1665.3	1695.9
40°	12584.1	11081.8	6750.4	3035.3	1930.1	1403.0	1403.0	1459.1	1527.8	1616.9	1678.1
42.5°	12851.5	11410.3	6798.8	2958.9	1802.8	1380.1	1367.4	1423.4	1515.1	1601.7	1629.7
44°	13014.5	11550.3	6750.4	2887.6	1767.2	1352.1	1352.1	1400.5	1471.8	1573.7	1606.8
45°	13055.2	11726.0	6643.5	2885.0	1723.9	1319.0	1313.9	1405.6	1454.0	1578.7	1599.1
47.5°	13213.1	11942.4	6656.2	2803.5	1619.5	1240.1	1329.2	1369.9	1413.2	1522.7	1591.5
50°	13208.0	12077.4	6628.2	2683.9	1543.1	1151.0	1298.6	1344.5	1387.8	1499.8	1527.8
52.5°	13243.6	12581.6	6885.4	2492.9	1405.6	1036.4	1196.8	1298.6	1352.1	1446.3	1504.9
55°	13225.8	12869.3	7140.0	2350.3	1212.1	967.6	1110.2	1229.9	1306.3	1405.6	1433.6
57.5°	12080.0	11374.6	6607.8	2082.9	1003.3	886.1	988.0	1158.6	1255.4	1357.2	1392.9
60°	9869.7	8767.1	5449.2	1532.9	825.0	814.8	919.2	1135.7	1176.4	1265.5	1326.7
62.5°	9121.1	7690.0	4321.2	1171.3	705.3	746.1	847.9	1026.2	1089.8	1199.3	1255.4
65°	7137.5	5108.0	2676.2	791.9	621.3	669.7	766.5	898.9	1003.3	1105.1	1171.3
67.5°	4227.0	2790.8	1324.1	555.1	542.4	593.3	692.6	791.9	911.6	1023.6	1056.7
70°	2301.9	1372.5	565.3	422.7	460.9	506.7	603.5	672.2	786.8	873.4	929.4
72.5°	738.4	417.6	282.6	313.2	351.4	404.9	463.4	547.5	629.0	679.9	725.7
75°	178.2	175.7	201.2	219.0	254.6	295.4	343.8	387.0	450.7	499.1	539.8
77.5°	124.8	135.0	155.3	180.8	193.5	208.8	239.4	272.5	300.5	336.1	361.6
80°	96.8	104.4	119.7	132.4	145.1	157.9	173.2	185.9	203.7	226.6	239.4
82.5°	91.7	96.8	112.0	119.7	114.6	112.0	122.2	127.3	129.9	137.5	145.1
85°	7.6	0.0	5.1	17.8	43.3	63.7	68.8	68.8	66.2	71.3	71.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	10.2	7.6
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: P531824

CATALOG NUMBER: GALN-SA7A-827-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7779.1	7779.1	7779.1	7779.1	7779.1	7779.1	7779.1	7779.1	7779.1	7779.1	7779.1
2.5°	6885.4	6798.8	6831.9	6872.6	6814.1	6679.1	6714.8	6699.5	6837.0	6826.8	6964.3
5°	5772.6	5637.7	5652.9	5851.5	5787.9	5856.6	5719.1	5701.3	5726.8	5739.5	5762.4
7.5°	4417.9	4400.1	4552.9	4721.0	4799.9	4718.4	4583.5	4552.9	4524.9	4468.9	4596.2
10°	3605.7	3610.7	3600.6	3727.9	3817.0	3799.2	3717.7	3707.5	3654.0	3633.7	3705.0
12.5°	3218.6	3149.9	3116.7	3076.0	3144.8	3190.6	3154.9	3129.5	3132.0	3157.5	3167.7
15°	2844.3	2801.0	2729.7	2683.9	2717.0	2694.1	2681.3	2732.2	2719.5	2714.4	2775.5
17.5°	2424.1	2459.8	2454.7	2403.8	2447.1	2429.2	2426.7	2391.0	2342.7	2307.0	2327.4
20°	2146.6	2212.8	2263.7	2266.3	2289.2	2286.6	2248.4	2138.9	2103.3	2095.7	2100.8
22.5°	2047.3	2082.9	2144.0	2230.6	2230.6	2189.9	2144.0	2016.7	1983.6	1948.0	1932.7
25°	1968.3	2037.1	2116.0	2126.2	2167.0	2128.8	2054.9	1991.3	1922.5	1874.1	1874.1
27.5°	1927.6	2004.0	2062.6	2080.4	2136.4	2105.8	2029.5	1948.0	1866.5	1863.9	1820.7
30°	1909.8	1981.1	2019.3	2062.6	2088.0	2039.6	2016.7	1930.1	1848.7	1828.3	1757.0
32.5°	1856.3	1958.2	2029.5	2019.3	2039.6	2019.3	1986.2	1914.9	1823.2	1777.4	1769.7
35°	1795.2	1897.0	1973.4	2026.9	2039.6	1996.3	1976.0	1879.2	1754.4	1731.5	1652.6
37.5°	1762.1	1823.2	1917.4	2004.0	2021.8	1998.9	1930.1	1830.8	1706.1	1680.6	1611.8
40°	1721.3	1800.3	1874.1	1945.4	1998.9	1942.9	1863.9	1767.2	1711.2	1634.8	1614.4
42.5°	1690.8	1779.9	1841.0	1920.0	1981.1	1907.2	1815.6	1749.4	1670.4	1619.5	1560.9
44°	1680.6	1762.1	1802.8	1899.6	1950.5	1894.5	1818.1	1749.4	1657.7	1611.8	1560.9
45°	1645.0	1757.0	1800.3	1886.9	1930.1	1884.3	1787.5	1718.8	1652.6	1596.6	1543.1
47.5°	1609.3	1685.7	1759.5	1828.3	1858.8	1843.6	1762.1	1678.1	1599.1	1566.0	1515.1
50°	1599.1	1675.5	1744.3	1807.9	1843.6	1813.0	1739.2	1657.7	1566.0	1512.5	1469.3
52.5°	1548.2	1642.4	1718.8	1739.2	1785.0	1767.2	1711.2	1622.0	1535.5	1489.6	1454.0
55°	1474.3	1573.7	1678.1	1703.5	1769.7	1741.7	1657.7	1573.7	1499.8	1431.1	1385.2
57.5°	1446.3	1543.1	1645.0	1678.1	1718.8	1673.0	1652.6	1563.5	1446.3	1410.7	1339.4
60°	1375.0	1497.3	1581.3	1657.7	1660.2	1647.5	1611.8	1510.0	1413.2	1347.0	1296.1
62.5°	1319.0	1433.6	1499.8	1571.1	1614.4	1578.7	1543.1	1448.9	1344.5	1270.6	1212.1
65°	1237.5	1341.9	1398.0	1441.2	1489.6	1484.5	1423.4	1354.7	1245.2	1186.6	1130.6
67.5°	1112.8	1204.4	1280.8	1321.6	1352.1	1344.5	1298.6	1250.3	1138.2	1079.7	1038.9
70°	962.5	1056.7	1105.1	1128.0	1158.6	1173.9	1138.2	1115.3	1016.0	939.6	901.4
72.5°	774.1	835.2	906.5	926.9	939.6	949.8	949.8	929.4	827.6	797.0	730.8
75°	570.4	618.8	672.2	672.2	695.2	697.7	702.8	690.1	613.7	572.9	557.7
77.5°	387.0	422.7	466.0	483.8	499.1	496.5	494.0	458.3	417.6	399.8	384.5
80°	252.1	287.7	308.1	331.0	346.3	343.8	348.9	323.4	305.6	275.0	280.1
82.5°	150.2	178.2	198.6	226.6	226.6	234.3	234.3	226.6	208.8	193.5	193.5
85°	71.3	94.2	106.9	124.8	135.0	137.5	122.2	104.4	86.6	78.9	86.6
87.5°	12.7	17.8	25.5	22.9	28.0	25.5	25.5	25.5	25.5	20.4	22.9
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: P531824
 CATALOG NUMBER: GALN-SA7A-827-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7779.1	7779.1	7779.1	7779.1	7779.1	7779.1	7779.1	7779.1	7779.1	7779.1
2.5°	6913.4	7040.7	7129.8	7277.5	7532.1	7735.9	7944.7	8100.0	8117.8	8163.6
5°	5846.5	5915.2	6141.8	6437.2	6646.0	6989.8	7211.3	7613.6	7763.9	7924.3
7.5°	4565.6	4677.7	4980.7	5179.3	5637.7	6068.0	6513.6	7010.1	7208.8	7231.7
10°	3850.1	4013.1	4219.3	4537.6	4787.2	5265.9	5821.0	6373.5	6595.1	6633.3
12.5°	3381.6	3590.4	3865.4	4094.6	4333.9	4751.5	5283.7	5966.1	6253.9	6427.0
15°	2930.9	3147.3	3450.3	3768.6	3980.0	4479.1	5105.5	5874.5	6248.8	6401.6
17.5°	2467.4	2668.6	2918.1	3261.9	3687.1	4247.3	5077.5	6180.0	6590.0	6768.2
20°	2070.2	2182.2	2472.5	2826.5	3358.7	4010.5	5087.6	6630.7	7231.7	7310.6
22.5°	1914.9	1940.3	2054.9	2380.9	2964.0	3768.6	5268.4	7269.9	7952.3	8212.0
25°	1795.2	1790.1	1820.7	2039.6	2676.2	3674.4	5446.7	7858.1	8751.9	9034.5
27.5°	1729.0	1678.1	1680.6	1886.9	2472.5	3521.6	5675.8	8532.9	9658.4	9783.1
30°	1695.9	1685.7	1655.1	1739.2	2251.0	3292.4	5714.0	9197.5	10193.1	10373.9
32.5°	1675.5	1576.2	1538.0	1568.6	2042.2	3042.9	5856.6	9635.4	10855.2	10776.2
35°	1573.7	1484.5	1459.1	1489.6	1894.5	2902.9	5762.4	10017.4	11351.7	11484.1
37.5°	1535.5	1456.5	1405.6	1380.1	1757.0	2785.7	5714.0	10605.6	11833.0	12151.3
40°	1499.8	1415.8	1354.7	1329.2	1650.0	2630.4	5698.8	11058.9	12388.1	12579.0
42.5°	1459.1	1405.6	1336.8	1291.0	1520.2	2475.1	5523.1	11198.9	12558.7	12764.9
44°	1446.3	1364.9	1293.6	1278.3	1469.3	2396.1	5487.4	11326.2	12706.4	13019.6
45°	1433.6	1357.2	1275.7	1255.4	1451.4	2352.8	5439.0	11356.8	12950.8	13009.4
47.5°	1398.0	1349.6	1270.6	1214.6	1413.2	2258.6	5293.9	11183.6	12701.3	12711.5
50°	1369.9	1313.9	1232.4	1122.9	1362.3	2179.7	5360.1	11120.0	12100.3	12123.2
52.5°	1339.4	1255.4	1209.5	1021.1	1278.3	2113.5	5500.1	11407.7	12169.1	12164.0
55°	1303.7	1212.1	1100.0	934.5	1138.2	2029.5	5838.8	11975.6	12805.7	12892.2
57.5°	1247.7	1168.8	1008.4	858.1	977.8	1869.0	5729.3	10888.3	11782.0	11797.3
60°	1173.9	1100.0	914.1	799.6	802.1	1474.3	5123.3	8484.5	9296.8	9518.3
62.5°	1102.6	1061.8	835.2	715.5	682.4	1173.9	4331.4	7050.9	7980.3	8163.6
65°	1018.5	919.2	766.5	651.9	585.7	822.5	3068.4	5268.4	6225.9	6472.9
67.5°	911.6	804.7	674.8	572.9	501.6	550.0	1583.8	2994.5	3964.7	4109.8
70°	797.0	697.7	567.8	483.8	404.9	379.4	697.7	1428.5	2167.0	2317.2
72.5°	654.4	562.7	453.3	382.0	303.0	262.3	234.3	382.0	769.0	893.8
75°	473.6	410.0	341.2	272.5	213.9	168.1	137.5	114.6	127.3	137.5
77.5°	348.9	297.9	252.1	193.5	150.2	119.7	94.2	71.3	68.8	66.2
80°	272.5	241.9	201.2	155.3	117.1	89.1	66.2	48.4	43.3	43.3
82.5°	213.9	198.6	165.5	127.3	96.8	71.3	48.4	33.1	28.0	28.0
85°	81.5	81.5	119.7	104.4	73.8	50.9	33.1	17.8	15.3	15.3
87.5°	20.4	20.4	20.4	20.4	17.8	15.3	15.3	7.6	5.1	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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