

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: P531826

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
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-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

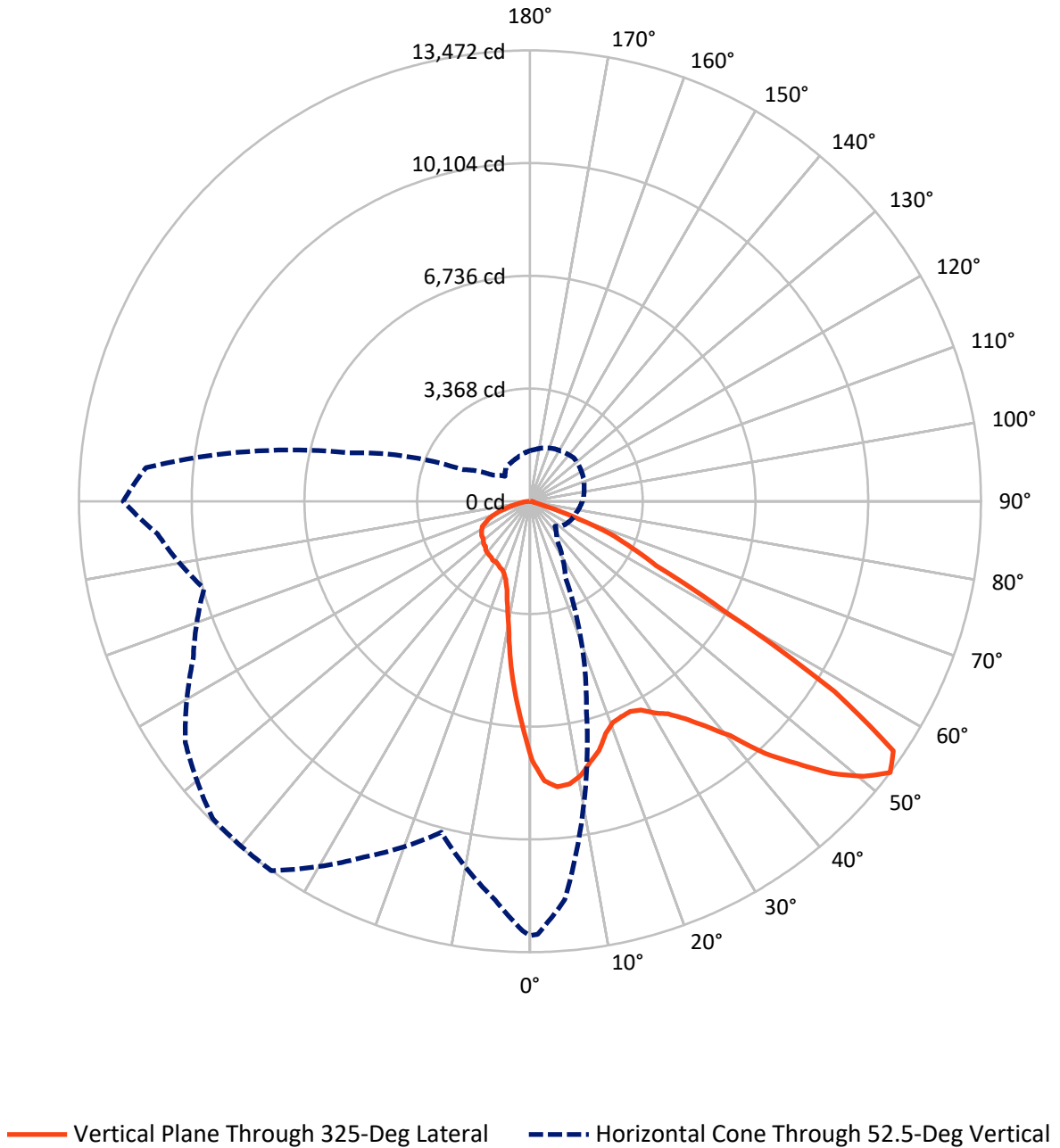
Lumens per Lamp: N/A
Luminaire Lumens: 17439 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

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



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Luminous Intensity Polar Plot



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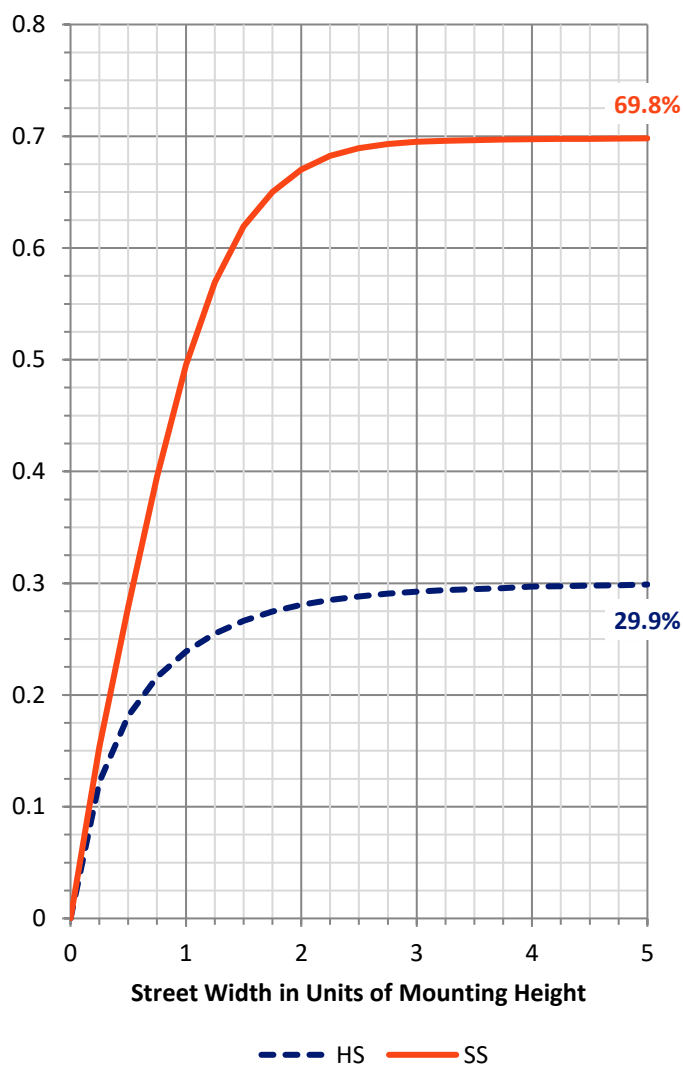
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5257.1	0.0	5257.1
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	12181.9	0.0	12181.9
	% Fixture	69.9	0.0	69.9
Total	Lumens	17439.0	0.0	17439.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	590.5	3.4
10°-20°	1280.0	7.3
20°-30°	1934.0	11.1
30°-40°	2794.7	16.0
40°-50°	3719.3	21.3
50°-60°	4160.1	23.9
60°-70°	2344.6	13.4
70°-80°	522.6	3.0
80°-90°	93.1	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



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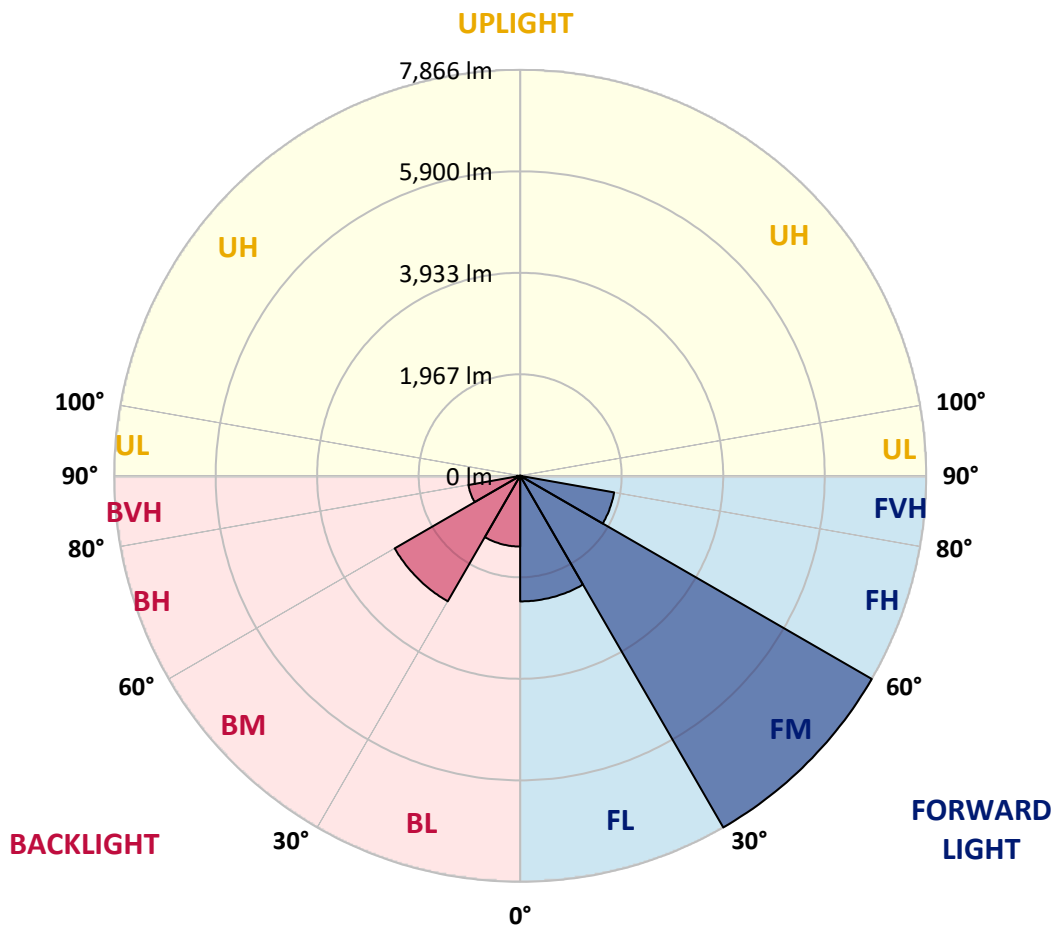
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2433.6	14.0			
FM (30°-60°)	7866.3	45.1			
FH (60°-80°)	1848.3	10.6			G2/5000
FVH (80°-90°)	33.7	0.2			G1/100
BL (0°-30°)	1370.9	7.9	B3/2500		
BM (30°-60°)	2807.8	16.1	B3/5000		
BH (60°-80°)	1019.0	5.8	B3/2500		G3/2500
BVH (80°-90°)	59.4	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7739.5	7739.5	7739.5	7739.5	7739.5	7739.5	7739.5	7739.5	7739.5	7739.5	7739.5
2.5°	7868.4	7994.8	7858.3	7615.7	7443.8	7287.1	7122.8	7089.9	6875.1	6837.2	6680.5
5°	7421.1	7393.3	7226.4	6908.0	6556.6	6238.1	6003.1	5775.6	5621.4	5441.9	5429.3
7.5°	6877.6	6715.9	6619.8	6137.0	5702.3	5201.8	4987.0	4640.7	4532.0	4370.2	4286.8
10°	6392.3	6273.5	6048.6	5565.8	4959.2	4628.1	4398.0	4211.0	4084.6	3917.8	3708.0
12.5°	6152.2	6104.2	5851.4	5103.2	4653.3	4299.5	4137.7	3955.7	3740.9	3472.9	3369.3
15°	6195.2	6033.4	5841.3	5014.8	4393.0	4051.8	3793.9	3566.5	3290.9	3035.7	2886.5
17.5°	6516.2	6392.3	6008.1	5070.4	4294.4	3801.5	3333.9	2997.7	2750.0	2520.0	2416.4
20°	7148.1	6968.6	6536.4	5141.2	4082.1	3452.7	2916.9	2502.3	2236.9	2115.6	2080.2
22.5°	7848.2	7742.1	7052.0	5300.4	3912.7	3129.2	2474.5	2060.0	1961.4	1928.6	1994.3
25°	8700.0	8424.5	7853.3	5560.7	3781.3	2853.7	2100.4	1870.4	1819.9	1852.7	1928.6
27.5°	9347.1	9273.8	8414.4	5805.9	3601.8	2522.6	1890.7	1739.0	1754.2	1787.0	1857.8
30°	10115.5	9743.9	8957.8	5975.3	3440.1	2295.1	1744.0	1703.6	1718.8	1774.4	1809.8
32.5°	10578.0	10439.0	9299.1	6230.6	3253.0	2097.9	1630.3	1592.4	1615.1	1698.6	1782.0
35°	11167.0	10891.5	9721.2	6296.3	3121.6	2019.6	1549.4	1521.6	1574.7	1632.8	1726.4
37.5°	11854.5	11664.9	10305.1	6250.8	3050.8	1938.7	1481.2	1468.5	1506.5	1587.3	1696.0
40°	12261.4	12203.3	10610.9	6278.6	2939.6	1867.9	1402.8	1418.0	1496.3	1559.5	1665.7
42.5°	12653.2	12274.1	11063.3	6268.5	2868.8	1771.9	1410.4	1392.7	1453.4	1526.7	1627.8
45°	12739.1	12362.5	11169.5	6197.7	2782.9	1678.3	1352.3	1359.9	1433.2	1524.1	1589.9
47.5°	12683.5	12405.5	11366.7	6177.5	2702.0	1612.6	1266.3	1357.3	1400.3	1473.6	1567.1
50°	12645.6	12630.5	11533.5	6273.5	2593.3	1509.0	1162.7	1324.5	1367.4	1440.7	1541.8
52.5°	12979.3	12946.4	11950.5	6526.3	2507.4	1397.8	1056.5	1241.1	1344.7	1415.5	1514.0
55°	13181.5	13037.4	12665.8	6837.2	2363.3	1251.2	983.2	1137.4	1289.1	1352.3	1453.4
57.5°	11857.0	11758.4	11457.6	6382.2	2120.7	1059.1	892.2	1031.3	1213.3	1311.8	1415.5
60°	9865.3	9711.1	8940.1	5424.2	1564.6	824.0	836.6	947.9	1193.0	1230.9	1352.3
62.5°	9301.6	8919.9	7871.0	4365.2	1200.6	707.7	750.7	872.0	1086.9	1150.1	1271.4
65°	7380.6	7097.5	5631.5	3151.9	803.8	614.2	685.0	786.1	937.7	1061.6	1172.8
67.5°	4620.5	4350.0	3005.3	1491.3	561.1	525.7	611.7	717.8	841.7	952.9	1076.8
70°	2413.9	2118.1	1387.7	538.4	386.7	429.7	510.6	611.7	733.0	824.0	920.0
72.5°	899.8	730.5	452.4	232.5	267.9	328.6	414.5	487.8	573.8	685.0	738.1
75°	139.0	118.8	116.3	141.5	182.0	237.6	295.7	369.0	444.9	515.6	551.0
77.5°	65.7	63.2	70.8	93.5	121.3	169.3	214.8	285.6	346.3	391.8	412.0
80°	43.0	40.4	45.5	63.2	91.0	126.4	171.9	219.9	275.5	313.4	308.4
82.5°	25.3	27.8	27.8	43.0	63.2	91.0	123.9	166.8	204.7	237.6	217.4
85°	15.2	12.6	12.6	25.3	43.0	73.3	103.6	70.8	73.3	73.3	83.4
87.5°	5.1	5.1	5.1	2.5	5.1	5.1	7.6	12.6	15.2	17.7	22.7
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°	7739.5	7739.5	7739.5	7739.5	7739.5	7739.5	7739.5	7739.5	7739.5	7739.5	7739.5
2.5°	6675.4	6753.8	6726.0	6627.4	6703.2	6715.9	6665.3	6839.7	6872.6	6819.5	6834.7
5°	5411.6	5431.8	5477.3	5573.4	5641.6	5722.5	5722.5	5727.6	5659.3	5831.2	5780.6
7.5°	4216.0	4228.7	4281.8	4486.5	4544.6	4698.8	4764.5	4719.0	4582.6	4524.4	4572.4
10°	3639.8	3566.5	3548.8	3574.0	3705.5	3771.2	3826.8	3811.6	3788.9	3743.4	3692.8
12.5°	3255.6	3202.5	3159.5	3098.8	3106.4	3169.6	3212.6	3177.2	3187.3	3197.4	3212.6
15°	2838.5	2800.6	2777.8	2686.8	2676.7	2719.7	2734.9	2755.1	2793.0	2795.5	2777.8
17.5°	2396.2	2363.3	2413.9	2464.4	2429.0	2431.6	2459.4	2477.1	2466.9	2421.4	2398.7
20°	2092.9	2128.2	2178.8	2226.8	2264.7	2287.5	2297.6	2269.8	2236.9	2143.4	2140.9
22.5°	2004.4	2049.9	2092.9	2166.2	2201.5	2259.7	2206.6	2143.4	2097.9	2052.4	1999.3
25°	1938.7	1976.6	2062.5	2090.3	2158.6	2206.6	2168.7	2105.5	2027.1	1961.4	1921.0
27.5°	1890.7	1933.6	1989.2	2065.1	2118.1	2145.9	2108.0	2082.7	2001.9	1923.5	1865.4
30°	1860.3	1905.8	2006.9	2070.1	2115.6	2138.4	2072.6	2042.3	1984.2	1918.5	1867.9
32.5°	1840.1	1880.5	1966.5	2047.4	2077.7	2077.7	2087.8	2052.4	1971.5	1860.3	1817.4
35°	1774.4	1830.0	1900.8	1994.3	2049.9	2082.7	2032.2	1991.8	1938.7	1824.9	1746.6
37.5°	1736.5	1774.4	1865.4	1953.8	2001.9	2037.3	2017.0	1946.3	1875.5	1782.0	1718.8
40°	1696.0	1756.7	1837.6	1921.0	1974.1	2009.4	1994.3	1910.9	1824.9	1736.5	1693.5
42.5°	1668.2	1708.7	1792.1	1885.6	1948.8	2017.0	1971.5	1867.9	1807.2	1685.9	1637.9
45°	1645.5	1711.2	1799.7	1837.6	1903.3	1974.1	1893.2	1830.0	1759.2	1670.7	1630.3
47.5°	1617.7	1678.3	1736.5	1837.6	1867.9	1900.8	1885.6	1784.5	1723.8	1627.8	1600.0
50°	1607.6	1630.3	1736.5	1792.1	1835.0	1867.9	1827.5	1751.6	1693.5	1594.9	1534.3
52.5°	1567.1	1610.1	1678.3	1751.6	1804.7	1845.2	1779.4	1731.4	1653.1	1549.4	1511.5
55°	1516.6	1541.8	1663.2	1739.0	1766.8	1794.6	1769.3	1691.0	1610.1	1503.9	1466.0
57.5°	1450.8	1509.0	1607.6	1713.7	1749.1	1764.3	1723.8	1660.6	1559.5	1466.0	1405.3
60°	1382.6	1443.3	1552.0	1637.9	1673.3	1728.9	1668.2	1630.3	1514.0	1410.4	1344.7
62.5°	1314.4	1382.6	1463.5	1572.2	1602.5	1625.3	1610.1	1557.0	1463.5	1347.2	1266.3
65°	1233.5	1284.0	1385.1	1440.7	1461.0	1514.0	1461.0	1440.7	1357.3	1246.1	1177.9
67.5°	1112.1	1155.1	1243.6	1296.7	1311.8	1334.6	1332.0	1309.3	1215.8	1140.0	1079.3
70°	973.1	1011.0	1066.7	1129.8	1137.4	1165.2	1140.0	1134.9	1074.2	970.6	937.7
72.5°	781.0	816.4	889.7	917.5	920.0	930.2	917.5	899.8	884.7	776.0	743.1
75°	599.0	619.3	654.7	679.9	679.9	692.6	685.0	667.3	626.8	558.6	525.7
77.5°	417.1	437.3	482.8	497.9	495.4	500.5	477.7	460.0	399.4	364.0	336.2
80°	303.3	316.0	338.7	348.8	351.3	358.9	331.1	316.0	280.6	240.1	227.5
82.5°	219.9	227.5	230.0	242.7	242.7	230.0	222.4	207.3	182.0	156.7	146.6
85°	91.0	93.5	96.0	111.2	113.7	136.5	126.4	118.8	103.6	88.5	80.9
87.5°	22.7	25.3	32.9	27.8	32.9	32.9	35.4	40.4	40.4	32.9	32.9
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°	7739.5	7739.5	7739.5	7739.5	7739.5	7739.5	7739.5	7739.5	7739.5	7739.5	7739.5
2.5°	6892.8	6913.0	7170.8	7203.7	7330.1	7459.0	7719.3	7906.4	8058.0	8156.6	8184.4
5°	5833.7	5962.6	6081.4	6273.5	6447.9	6695.6	6981.3	7335.1	7780.0	8007.5	8098.5
7.5°	4567.4	4719.0	4890.9	5078.0	5333.3	5778.1	6159.8	6569.3	7138.0	7373.0	7729.4
10°	3728.2	3897.6	4125.1	4269.1	4577.5	5002.1	5447.0	5919.7	6463.1	6801.8	7213.8
12.5°	3296.0	3435.0	3644.8	3948.1	4178.1	4453.6	4784.8	5381.3	6159.8	6480.8	6763.9
15°	2818.3	2972.5	3215.1	3551.3	3826.8	4155.4	4526.9	5176.5	6005.6	6501.0	6741.1
17.5°	2424.0	2535.2	2790.5	3081.2	3397.1	3756.0	4289.4	5166.4	6167.4	6801.8	7193.6
20°	2151.0	2166.2	2305.2	2552.9	2982.6	3450.2	4142.7	5115.9	6685.5	7320.0	7815.4
22.5°	1979.1	1964.0	1966.5	2176.3	2477.1	3149.4	3912.7	5287.8	7274.5	8144.0	8477.6
25°	1893.2	1852.7	1827.5	1873.0	2145.9	2793.0	3738.3	5515.2	7908.9	8823.9	9233.4
27.5°	1847.7	1776.9	1726.4	1733.9	1933.6	2613.5	3629.6	5613.8	8538.3	9771.7	9915.8
30°	1830.0	1741.5	1668.2	1642.9	1774.4	2363.3	3397.1	5783.2	9101.9	10292.4	10416.3
32.5°	1766.8	1658.1	1587.3	1564.6	1617.7	2143.4	3230.3	5904.5	9599.9	10858.6	10815.6
35°	1693.5	1602.5	1514.0	1471.1	1509.0	2001.9	3096.3	5846.4	10186.3	11298.4	11275.7
37.5°	1685.9	1567.1	1493.8	1423.0	1420.5	1827.5	2914.3	5902.0	10560.3	12087.0	11776.1
40°	1620.2	1544.4	1448.3	1390.2	1357.3	1739.0	2737.4	5770.5	11108.8	12405.5	12099.7
42.5°	1622.7	1509.0	1425.6	1357.3	1324.5	1610.1	2616.1	5735.1	11300.9	12923.7	12251.3
45°	1582.3	1471.1	1400.3	1319.4	1301.7	1511.5	2499.8	5570.8	11639.6	12948.9	12061.7
47.5°	1541.8	1443.3	1367.4	1271.4	1230.9	1476.1	2408.8	5434.4	11462.7	12711.3	11798.9
50°	1514.0	1400.3	1329.5	1261.3	1147.5	1415.5	2290.0	5401.5	11215.0	12390.3	11311.0
52.5°	1466.0	1364.9	1291.6	1238.5	1056.5	1359.9	2244.5	5593.6	11518.3	12150.2	11169.5
55°	1420.5	1316.9	1223.4	1119.7	980.7	1213.3	2118.1	5773.1	11960.6	12703.8	11811.5
57.5°	1372.5	1273.9	1172.8	1049.0	907.4	1061.6	1986.7	5805.9	11131.6	11740.7	11212.5
60°	1309.3	1182.9	1107.1	945.3	829.1	879.6	1574.7	5118.4	8634.3	9804.6	9822.3
62.5°	1238.5	1102.0	1036.3	846.7	748.2	758.3	1284.0	4302.0	7004.0	8116.1	8598.9
65°	1145.0	1013.6	935.2	783.6	690.0	657.2	940.3	3151.9	5320.6	6584.4	7132.9
67.5°	1023.7	899.8	801.3	682.5	616.7	563.7	642.0	1774.4	3141.8	4420.8	4587.6
70°	894.8	788.6	685.0	586.4	513.1	475.2	470.1	786.1	1501.4	2378.5	2707.1
72.5°	705.2	629.4	546.0	472.7	424.6	369.0	336.2	326.1	508.0	968.1	1337.1
75°	505.5	442.3	394.3	346.3	310.9	280.6	255.3	232.5	212.3	242.7	333.6
77.5°	318.5	295.7	257.8	245.2	225.0	217.4	207.3	194.6	179.5	169.3	169.3
80°	214.8	199.7	187.0	184.5	176.9	174.4	176.9	164.3	149.1	136.5	141.5
82.5°	144.1	141.5	139.0	136.5	139.0	141.5	146.6	144.1	131.4	123.9	126.4
85°	85.9	91.0	96.0	101.1	111.2	98.6	80.9	68.2	60.7	55.6	53.1
87.5°	32.9	45.5	40.4	37.9	40.4	37.9	35.4	32.9	27.8	25.3	25.3
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: P531826

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7739.5	7739.5	7739.5	7739.5	7739.5	7739.5	7739.5	7739.5	7739.5	7739.5
2.5°	8368.9	8419.5	8462.4	8452.3	8363.9	8245.1	8197.0	7951.9	7901.3	7868.4
5°	8482.7	8775.9	8839.0	8801.1	8571.1	8280.4	7997.4	7638.4	7428.6	7421.1
7.5°	8272.9	8634.3	8748.1	8834.0	8528.1	8022.6	7537.3	6998.9	6867.5	6877.6
10°	7739.5	8315.8	8596.4	8684.9	8333.5	7896.2	7223.9	6677.9	6397.4	6392.3
12.5°	7443.8	7896.2	7974.6	8098.5	7994.8	7552.5	7041.9	6430.2	6157.3	6152.2
15°	7180.9	7479.2	7501.9	7676.3	7732.0	7433.7	7089.9	6437.8	6217.9	6195.2
17.5°	7410.9	7203.7	7117.7	7140.5	7304.8	7413.5	7368.0	6867.5	6642.6	6516.2
20°	7565.1	7102.6	6842.2	6867.5	7062.1	7459.0	7782.5	7489.3	7132.9	7148.1
22.5°	7977.1	7117.7	6710.8	6683.0	6991.4	7696.6	8250.1	8275.4	7931.6	7848.2
25°	8593.9	7292.1	6670.4	6662.8	6958.5	7951.9	8796.1	9205.5	8854.2	8700.0
27.5°	9089.3	7565.1	6796.7	6822.0	7062.1	8159.1	9261.2	9804.6	9536.7	9347.1
30°	9524.0	7848.2	6973.7	6857.4	7340.2	8267.8	9460.8	10487.0	10272.2	10115.5
32.5°	9703.5	8250.1	7254.2	7062.1	7570.2	8399.2	9875.4	11149.3	10964.8	10578.0
35°	10006.8	8475.1	7405.9	7390.7	7972.1	8715.2	10070.0	11586.6	11510.7	11167.0
37.5°	10249.5	8702.6	7944.3	7777.4	8523.1	9246.0	10383.4	12190.7	12016.2	11854.5
40°	10436.5	9109.5	8447.3	8667.2	9200.5	9728.8	10671.6	12228.6	12731.6	12261.4
42.5°	10264.6	9473.5	9273.8	9799.5	10305.1	10279.8	10704.4	12521.8	12898.4	12653.2
45°	10221.6	10090.2	10580.6	11058.3	11174.6	10737.3	10469.4	12198.2	12847.8	12739.1
47.5°	10118.0	10696.8	11551.2	12329.7	12152.7	11043.1	10188.8	12140.1	12878.2	12683.5
50°	10082.6	10828.3	12269.0	13027.3	12921.1	11308.5	10057.4	11766.0	12663.3	12645.6
52.5°	10080.1	11098.7	12567.3	13406.4	13472.2	11728.1	10236.8	11955.6	12830.1	12979.3
55°	10193.8	11012.8	12529.4	13196.6	13171.4	11541.1	10257.0	12082.0	13034.9	13181.5
57.5°	9615.0	9865.3	10340.4	10868.7	10732.2	9559.4	9160.1	11169.5	11963.2	11857.0
60°	8303.2	7519.6	6983.8	6958.5	6693.1	6326.6	7496.9	9968.9	9968.9	9865.3
62.5°	7271.9	4936.4	4241.3	4044.2	4233.7	4655.9	7231.5	9695.9	9420.4	9301.6
65°	6359.5	3768.7	3066.0	3010.4	3339.0	3975.9	6538.9	8260.2	7774.9	7380.6
67.5°	4092.2	2760.1	2279.9	2181.3	2578.2	2919.4	4352.5	5080.5	4774.7	4620.5
70°	2638.8	1797.1	1268.9	1190.5	1344.7	1799.7	2780.4	2962.4	2517.5	2413.9
72.5°	1248.6	776.0	444.9	366.5	412.0	687.5	1099.5	1182.9	983.2	899.8
75°	396.8	285.6	182.0	156.7	149.1	176.9	252.8	194.6	141.5	139.0
77.5°	176.9	169.3	144.1	121.3	106.2	88.5	73.3	60.7	63.2	65.7
80°	146.6	134.0	118.8	106.2	88.5	68.2	53.1	40.4	40.4	43.0
82.5°	128.9	116.3	103.6	88.5	75.8	55.6	40.4	27.8	25.3	25.3
85°	55.6	65.7	70.8	75.8	60.7	45.5	27.8	17.7	15.2	15.2
87.5°	22.7	20.2	17.7	15.2	12.6	12.6	10.1	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

(END OF REPORT)