

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: P529484

Luminaire Tested: **GALN-SA4C-827-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529484
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-SA4C-827-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA 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: 15226 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

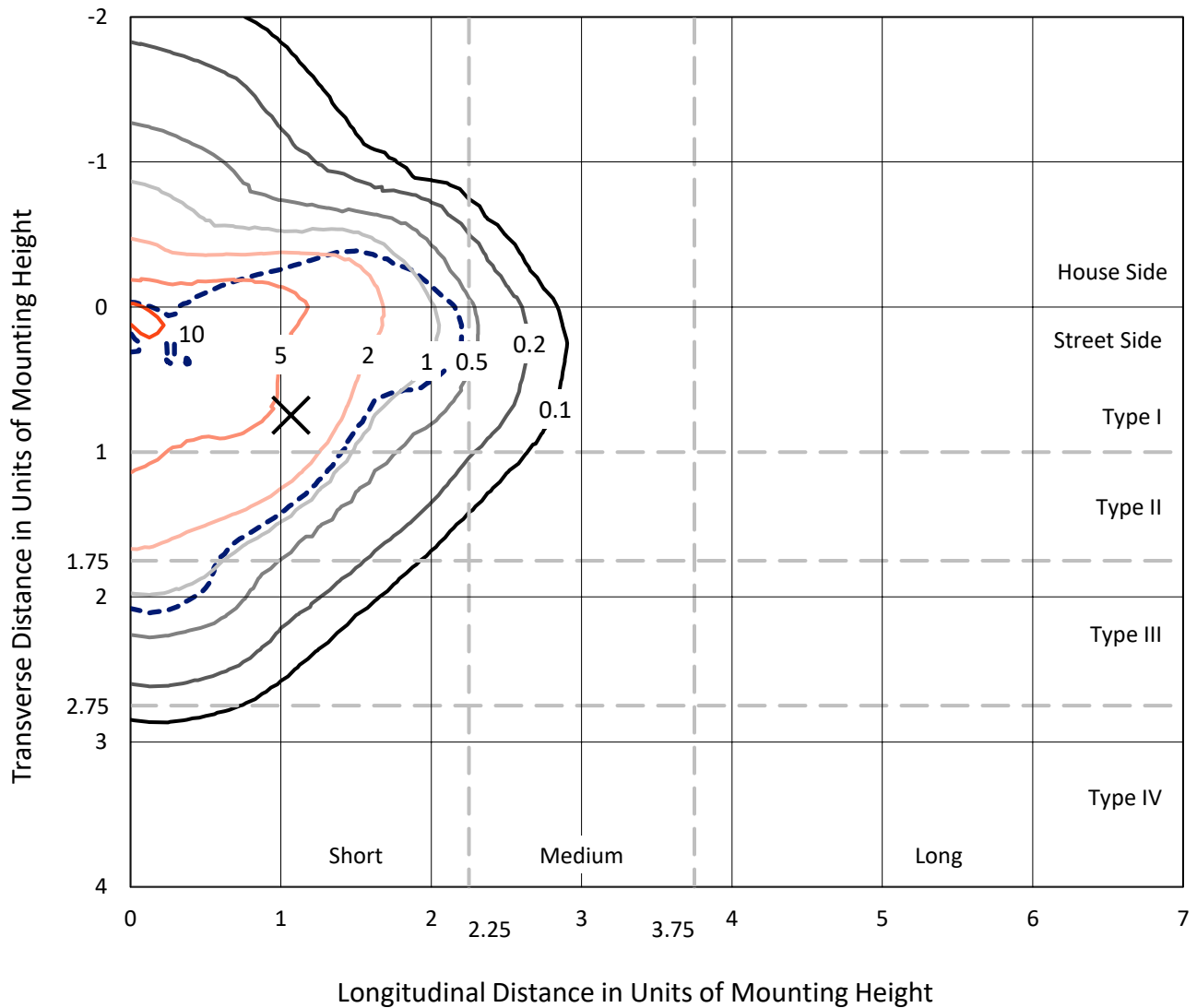
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

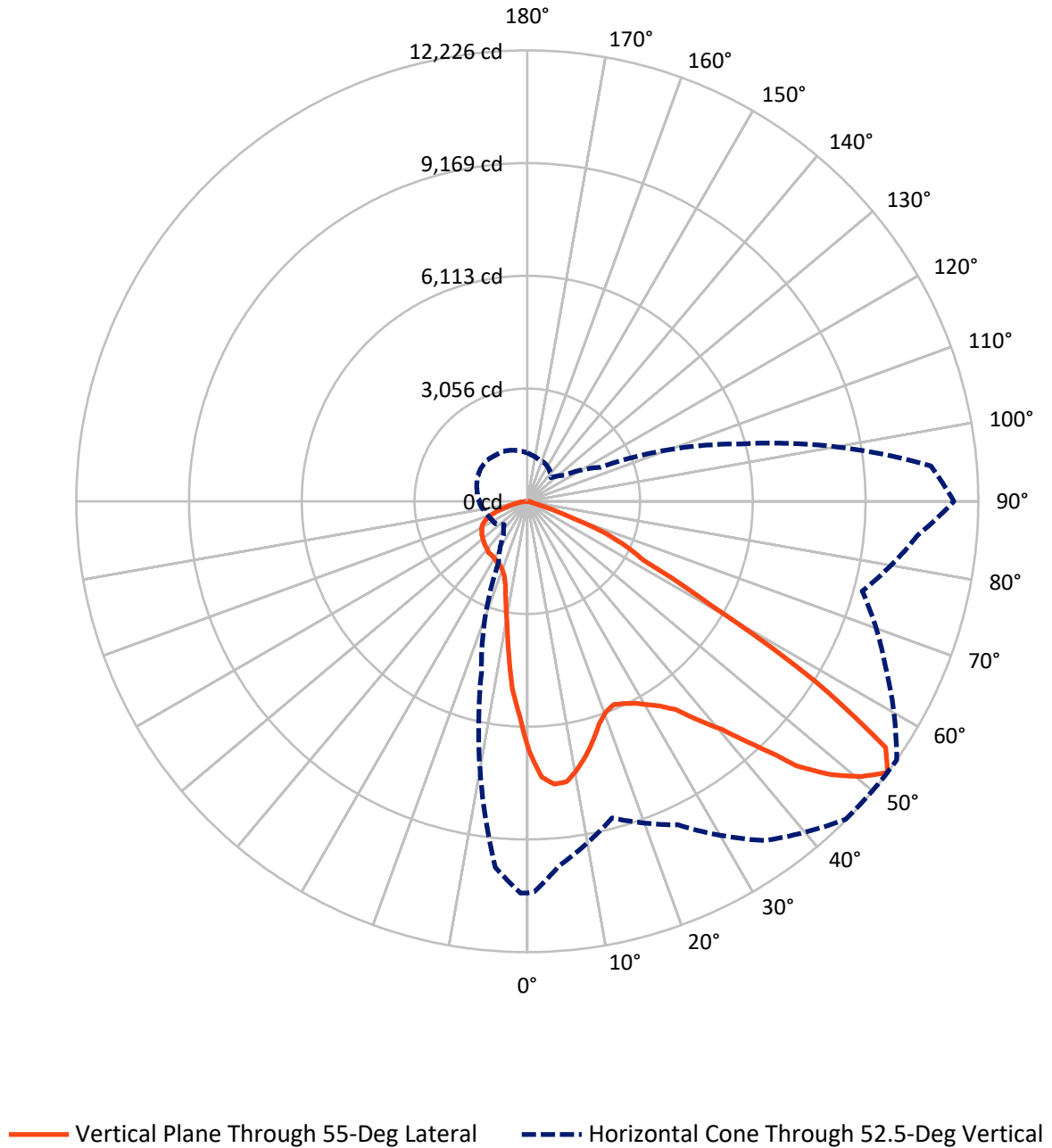
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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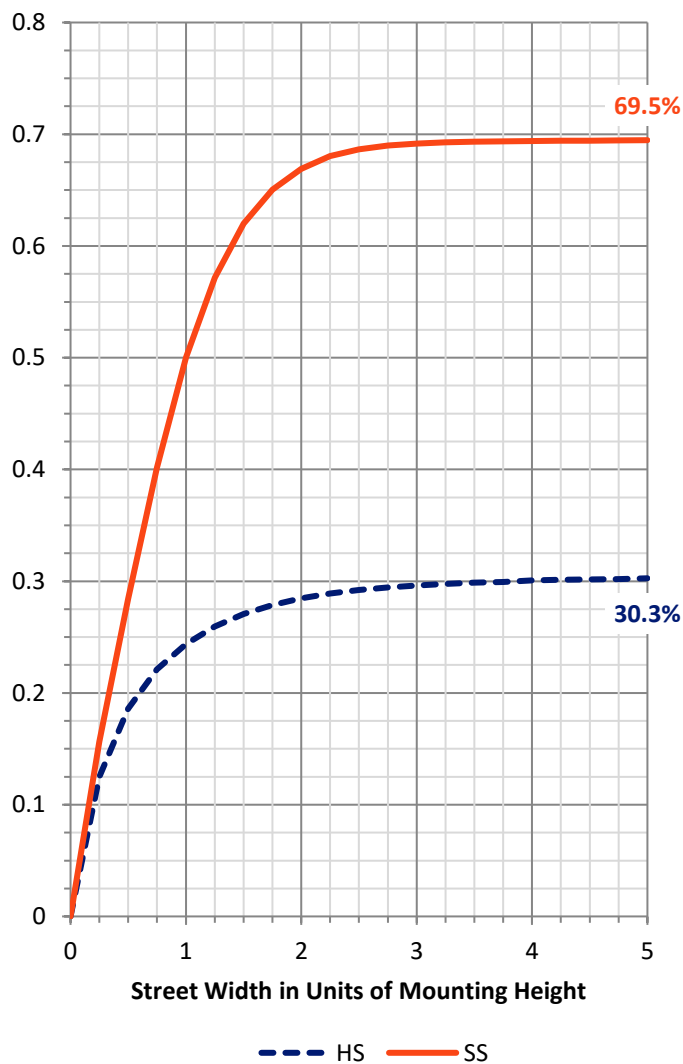
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4644.8	0.0	4644.8
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	10581.2	0.0	10581.2
	% Fixture	69.5	0.0	69.5
Total	Lumens	15226.0	0.0	15226.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.9	3.4
10°-20°	1118.8	7.3
20°-30°	1696.5	11.1
30°-40°	2451.1	16.1
40°-50°	3275.4	21.5
50°-60°	3656.1	24.0
60°-70°	2005.5	13.2
70°-80°	433.6	2.8
80°-90°	70.1	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°	15226.0	100.0
0°-180°	15226.0	100.0

Coefficient of Utilization

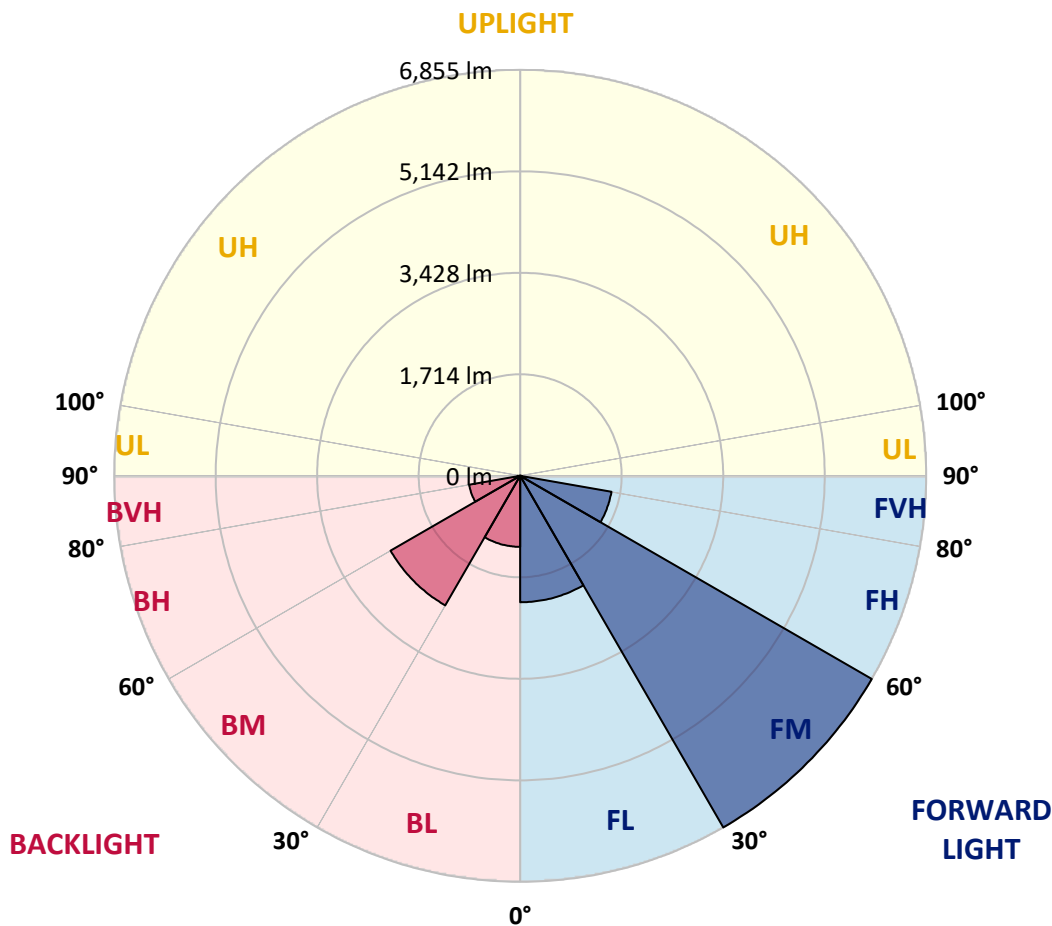


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2135.0	14.0			
FM (30°-60°)	6855.5	45.0			
FH (60°-80°)	1564.9	10.3			G1/1800
FVH (80°-90°)	26.0	0.2			G1/100
BL (0°-30°)	1199.2	7.9	B3/2500		
BM (30°-60°)	2527.1	16.6	B3/5000		
BH (60°-80°)	874.2	5.7	B2/1000		G2/1000
BVH (80°-90°)	44.2	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6792.0	6792.0	6792.0	6792.0	6792.0	6792.0	6792.0	6792.0	6792.0	6792.0	6792.0
2.5°	7127.7	7087.7	7123.2	7292.2	7390.0	7456.7	7499.0	7492.3	7332.2	7176.6	7176.6
5°	6918.7	6867.6	6940.9	7323.3	7707.9	7741.3	7796.9	7705.7	7470.1	7185.5	6829.8
7.5°	6314.0	6351.8	6474.1	6976.5	7476.7	7728.0	7794.7	7679.0	7296.6	6765.3	6242.8
10°	5791.5	5880.4	6162.8	6705.3	7165.5	7492.3	7565.7	7403.4	7101.0	6449.6	5982.7
12.5°	5611.4	5555.9	5869.3	6411.8	6852.0	7027.6	7061.0	7072.1	6867.6	6289.5	5720.4
15°	5589.2	5624.8	5869.3	6280.6	6551.9	6560.8	6616.3	6703.0	6729.7	6398.5	5842.7
17.5°	5909.4	5867.1	6118.3	6445.1	6316.2	6187.3	6200.6	6325.1	6545.2	6491.8	6227.3
20°	6382.9	6478.5	6676.4	6643.0	6296.2	5969.4	5971.6	6089.4	6523.0	6878.7	6763.1
22.5°	7169.9	7263.3	7410.0	7007.6	6296.2	5904.9	5829.3	5989.4	6665.2	7338.9	7367.8
25°	7888.0	8059.2	8099.2	7625.7	6611.9	5964.9	5916.0	6073.9	6807.5	7788.0	8061.4
27.5°	8541.7	8603.9	8779.5	8023.6	6787.5	6004.9	6000.5	6202.8	6987.6	8012.5	8681.7
30°	9057.4	9050.8	9150.8	8274.9	7067.7	6229.5	6013.8	6396.2	7223.3	8383.8	9255.3
32.5°	9408.7	9484.3	9695.5	8623.9	7185.5	6442.9	6274.0	6623.0	7510.1	8559.4	9659.9
35°	10026.8	10157.9	9891.2	8817.3	7559.0	6654.1	6456.3	6932.0	7652.4	8750.6	10155.7
37.5°	10609.3	10509.2	10238.0	8921.8	7801.3	7045.4	6860.9	7530.1	8094.8	9166.4	10484.8
40°	10982.8	10980.5	10498.1	9006.3	7972.5	7643.5	7632.4	8137.0	8637.3	9428.7	10853.8
42.5°	11145.1	11300.7	10604.8	8997.4	8332.7	8368.2	8592.8	9044.1	9021.9	9482.1	10844.9
44°	11367.4	11460.8	10789.3	9017.4	8572.8	8857.4	9386.5	9673.3	9357.6	9453.2	10833.8
45°	11358.5	11365.2	10527.0	9044.1	8777.3	9266.4	9740.0	10224.6	9653.3	9390.9	10980.5
47.5°	11098.4	11022.8	10304.7	8846.2	9415.4	10346.9	10784.9	11078.4	10017.9	9257.5	10798.2
50°	10584.8	10498.1	9764.4	8761.8	9548.8	11018.3	11623.1	11729.8	10349.1	9126.4	10618.2
52.5°	10620.4	10595.9	9917.8	8888.5	9682.2	11229.5	12198.9	12225.6	10724.9	9402.0	10620.4
55°	11256.2	11171.7	10358.0	9046.3	9584.4	10982.8	11832.0	11785.4	10598.1	9235.3	10816.0
57.5°	10300.2	10355.8	9748.9	8421.6	8388.3	8928.5	9302.0	9186.4	8844.0	8334.9	10062.3
60°	8310.4	8468.3	8526.1	7043.2	6329.5	6051.6	5940.5	5735.9	5793.7	6847.6	8839.6
62.5°	7127.7	7118.8	7481.2	6385.1	4146.3	3566.1	3512.7	3559.4	4226.4	6740.8	8657.3
65°	5651.5	5802.6	5913.8	5411.3	3281.5	2647.9	2645.6	2941.3	3657.2	5633.7	6989.8
67.5°	3588.3	3786.2	3924.0	3461.6	2194.3	1885.3	1834.2	2189.9	2534.5	3695.0	4208.6
70°	2023.1	2116.5	2178.8	1996.5	1396.2	978.2	920.4	1004.9	1531.8	2392.2	2494.5
72.5°	780.4	822.6	907.1	913.7	526.9	315.7	255.7	306.8	644.7	947.1	902.6
75°	120.1	128.9	182.3	217.9	151.2	115.6	122.3	126.7	180.1	244.6	204.5
77.5°	57.8	57.8	55.6	64.5	75.6	82.3	88.9	97.8	106.7	117.8	113.4
80°	37.8	37.8	37.8	44.5	55.6	66.7	75.6	80.0	84.5	93.4	88.9
82.5°	24.5	24.5	24.5	33.3	44.5	55.6	60.0	71.1	80.0	93.4	86.7
85°	13.3	13.3	13.3	22.2	33.3	46.7	44.5	35.6	20.0	2.2	4.4
87.5°	4.4	4.4	4.4	4.4	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6792.0	6792.0	6792.0	6792.0	6792.0	6792.0	6792.0	6792.0	6792.0	6792.0	6792.0
2.5°	6989.8	6887.6	6878.7	6669.7	6482.9	6391.8	6318.4	6113.9	6158.4	6040.5	6038.3
5°	6651.9	6442.9	6105.0	5827.1	5549.2	5493.6	5251.3	5040.1	5046.7	4895.6	4922.2
7.5°	6045.0	5900.5	5489.2	5053.4	4684.3	4422.0	4193.0	4055.2	3879.5	3819.5	3788.4
10°	5660.3	5482.5	5020.1	4473.1	4059.6	3919.6	3699.5	3577.2	3397.1	3308.2	3245.9
12.5°	5491.4	5231.3	4653.2	4097.4	3821.7	3677.2	3490.5	3268.2	3054.7	2972.5	2859.1
15°	5509.2	5197.9	4546.5	3946.2	3615.0	3334.8	3168.1	2921.3	2703.5	2558.9	2476.7
17.5°	5778.2	5400.2	4595.4	3830.6	3354.9	3003.6	2676.8	2410.0	2236.6	2127.6	2101.0
20°	6414.0	5900.5	4677.7	3643.9	3094.7	2656.8	2254.4	1976.5	1843.1	1840.8	1843.1
22.5°	6943.2	6434.0	4844.4	3532.7	2834.6	2212.1	1811.9	1723.0	1696.3	1751.9	1758.6
25°	7656.8	7034.3	5131.2	3474.9	2594.5	1885.3	1638.5	1605.2	1603.0	1674.1	1676.3
27.5°	8388.3	7559.0	5302.4	3305.9	2350.0	1716.3	1534.0	1527.4	1562.9	1638.5	1631.9
30°	8886.3	7999.2	5611.4	3103.6	2060.9	1567.4	1491.8	1500.7	1549.6	1607.4	1616.3
32.5°	9466.5	8432.7	5691.5	2992.5	1883.1	1442.9	1389.5	1409.5	1471.8	1562.9	1611.8
35°	10131.3	8739.5	5813.8	2841.3	1816.4	1347.3	1320.6	1342.8	1418.4	1478.4	1531.8
37.5°	10622.6	9282.0	5836.0	2723.5	1743.0	1293.9	1251.7	1325.0	1369.5	1454.0	1480.7
40°	10987.2	9675.5	5893.8	2650.1	1685.2	1225.0	1225.0	1273.9	1333.9	1411.8	1465.1
42.5°	11220.7	9962.3	5936.0	2583.4	1574.0	1205.0	1193.9	1242.8	1322.8	1398.4	1422.9
44°	11362.9	10084.6	5893.8	2521.1	1542.9	1180.5	1180.5	1222.8	1285.0	1374.0	1402.9
45°	11398.5	10238.0	5800.4	2518.9	1505.1	1151.6	1147.2	1227.2	1269.5	1378.4	1396.2
47.5°	11536.4	10427.0	5811.5	2447.8	1414.0	1082.7	1160.5	1196.1	1233.9	1329.5	1389.5
50°	11531.9	10544.8	5787.1	2343.3	1347.3	1004.9	1133.8	1173.9	1211.7	1309.5	1333.9
52.5°	11563.0	10985.0	6011.6	2176.5	1227.2	904.9	1044.9	1133.8	1180.5	1262.8	1313.9
55°	11547.5	11236.2	6233.9	2052.0	1058.3	844.8	969.3	1073.8	1140.5	1227.2	1251.7
57.5°	10547.0	9931.2	5769.3	1818.6	876.0	773.7	862.6	1011.6	1096.1	1185.0	1216.1
60°	8617.2	7654.6	4757.7	1338.4	720.3	711.4	802.6	991.6	1027.1	1104.9	1158.3
62.5°	7963.6	6714.2	3772.8	1022.7	615.8	651.4	740.3	896.0	951.5	1047.1	1096.1
65°	6231.7	4459.8	2336.6	691.4	542.5	584.7	669.2	784.8	876.0	964.9	1022.7
67.5°	3690.6	2436.7	1156.1	484.7	473.5	518.0	604.7	691.4	795.9	893.7	922.6
70°	2009.8	1198.3	493.6	369.1	402.4	442.4	526.9	586.9	687.0	762.6	811.5
72.5°	644.7	364.6	246.8	273.5	306.8	353.5	404.6	478.0	549.1	593.6	633.6
75°	155.6	153.4	175.6	191.2	222.3	257.9	300.1	337.9	393.5	435.8	471.3
77.5°	108.9	117.8	135.6	157.8	169.0	182.3	209.0	237.9	262.3	293.5	315.7
80°	84.5	91.2	104.5	115.6	126.7	137.8	151.2	162.3	177.9	197.9	209.0
82.5°	80.0	84.5	97.8	104.5	100.0	97.8	106.7	111.2	113.4	120.1	126.7
85°	6.7	0.0	4.4	15.6	37.8	55.6	60.0	60.0	57.8	62.3	62.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	8.9	6.7
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6792.0	6792.0	6792.0	6792.0	6792.0	6792.0	6792.0	6792.0	6792.0	6792.0	6792.0
2.5°	6011.6	5936.0	5964.9	6000.5	5949.4	5831.5	5862.7	5849.3	5969.4	5960.5	6080.5
5°	5040.1	4922.2	4935.6	5109.0	5053.4	5113.4	4993.4	4977.8	5000.0	5011.2	5031.2
7.5°	3857.3	3841.7	3975.1	4121.9	4190.8	4119.6	4001.8	3975.1	3950.7	3901.8	4012.9
10°	3148.1	3152.5	3143.7	3254.8	3332.6	3317.1	3245.9	3237.0	3190.3	3172.6	3234.8
12.5°	2810.2	2750.1	2721.2	2685.7	2745.7	2785.7	2754.6	2732.4	2734.6	2756.8	2765.7
15°	2483.4	2445.6	2383.3	2343.3	2372.2	2352.2	2341.1	2385.5	2374.4	2370.0	2423.3
17.5°	2116.5	2147.6	2143.2	2098.7	2136.5	2121.0	2118.7	2087.6	2045.4	2014.2	2032.0
20°	1874.2	1932.0	1976.5	1978.7	1998.7	1996.5	1963.1	1867.5	1836.4	1829.7	1834.2
22.5°	1787.5	1818.6	1872.0	1947.6	1947.6	1912.0	1872.0	1760.8	1731.9	1700.8	1687.4
25°	1718.6	1778.6	1847.5	1856.4	1892.0	1858.6	1794.1	1738.6	1678.5	1636.3	1636.3
27.5°	1683.0	1749.7	1800.8	1816.4	1865.3	1838.6	1771.9	1700.8	1629.6	1627.4	1589.6
30°	1667.4	1729.7	1763.0	1800.8	1823.1	1780.8	1760.8	1685.2	1614.1	1596.3	1534.0
32.5°	1620.7	1709.7	1771.9	1763.0	1780.8	1763.0	1734.1	1671.9	1591.8	1551.8	1545.1
35°	1567.4	1656.3	1723.0	1769.7	1780.8	1743.0	1725.2	1640.7	1531.8	1511.8	1442.9
37.5°	1538.5	1591.8	1674.1	1749.7	1765.2	1745.2	1685.2	1598.5	1489.6	1467.3	1407.3
40°	1502.9	1571.8	1636.3	1698.5	1745.2	1696.3	1627.4	1542.9	1494.0	1427.3	1409.5
42.5°	1476.2	1554.0	1607.4	1676.3	1729.7	1665.2	1585.2	1527.4	1458.4	1414.0	1362.8
44°	1467.3	1538.5	1574.0	1658.5	1703.0	1654.1	1587.4	1527.4	1447.3	1407.3	1362.8
45°	1436.2	1534.0	1571.8	1647.4	1685.2	1645.2	1560.7	1500.7	1442.9	1394.0	1347.3
47.5°	1405.1	1471.8	1536.3	1596.3	1623.0	1609.6	1538.5	1465.1	1396.2	1367.3	1322.8
50°	1396.2	1462.9	1522.9	1578.5	1609.6	1582.9	1518.5	1447.3	1367.3	1320.6	1282.8
52.5°	1351.7	1434.0	1500.7	1518.5	1558.5	1542.9	1494.0	1416.2	1340.6	1300.6	1269.5
55°	1287.3	1374.0	1465.1	1487.3	1545.1	1520.7	1447.3	1374.0	1309.5	1249.5	1209.4
57.5°	1262.8	1347.3	1436.2	1465.1	1500.7	1460.7	1442.9	1365.1	1262.8	1231.7	1169.4
60°	1200.5	1307.3	1380.6	1447.3	1449.5	1438.4	1407.3	1318.4	1233.9	1176.1	1131.6
62.5°	1151.6	1251.7	1309.5	1371.7	1409.5	1378.4	1347.3	1265.0	1173.9	1109.4	1058.3
65°	1080.5	1171.6	1220.6	1258.3	1300.6	1296.1	1242.8	1182.8	1087.2	1036.0	987.1
67.5°	971.6	1051.6	1118.3	1153.9	1180.5	1173.9	1133.8	1091.6	993.8	942.7	907.1
70°	840.4	922.6	964.9	984.9	1011.6	1024.9	993.8	973.8	887.1	820.4	787.0
72.5°	675.9	729.2	791.5	809.3	820.4	829.3	829.3	811.5	722.6	695.9	638.1
75°	498.0	540.2	586.9	586.9	606.9	609.2	613.6	602.5	535.8	500.2	486.9
77.5°	337.9	369.1	406.9	422.4	435.8	433.5	431.3	400.2	364.6	349.0	335.7
80°	220.1	251.2	269.0	289.0	302.4	300.1	304.6	282.4	266.8	240.1	244.6
82.5°	131.2	155.6	173.4	197.9	197.9	204.5	204.5	197.9	182.3	169.0	169.0
85°	62.3	82.3	93.4	108.9	117.8	120.1	106.7	91.2	75.6	68.9	75.6
87.5°	11.1	15.6	22.2	20.0	24.5	22.2	22.2	22.2	22.2	17.8	20.0
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: P529484

CATALOG NUMBER: GALN-SA4C-827-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6792.0	6792.0	6792.0	6792.0	6792.0	6792.0	6792.0	6792.0	6792.0	6792.0
2.5°	6036.1	6147.2	6225.0	6354.0	6576.3	6754.2	6936.5	7072.1	7087.7	7127.7
5°	5104.5	5164.6	5362.4	5620.3	5802.6	6102.8	6296.2	6647.5	6778.6	6918.7
7.5°	3986.3	4084.1	4348.6	4522.1	4922.2	5298.0	5687.0	6120.6	6294.0	6314.0
10°	3361.5	3503.8	3683.9	3961.8	4179.7	4597.6	5082.3	5564.7	5758.2	5791.5
12.5°	2952.5	3134.8	3374.9	3575.0	3783.9	4148.6	4613.2	5209.0	5460.3	5611.4
15°	2558.9	2747.9	3012.5	3290.4	3474.9	3910.7	4457.6	5129.0	5455.8	5589.2
17.5°	2154.3	2329.9	2547.8	2848.0	3219.2	3708.4	4433.1	5395.8	5753.7	5909.4
20°	1807.5	1905.3	2158.8	2467.8	2932.4	3501.6	4442.0	5789.3	6314.0	6382.9
22.5°	1671.9	1694.1	1794.1	2078.7	2587.8	3290.4	4599.9	6347.3	6943.2	7169.9
25°	1567.4	1562.9	1589.6	1780.8	2336.6	3208.1	4755.5	6860.9	7641.2	7888.0
27.5°	1509.6	1465.1	1467.3	1647.4	2158.8	3074.7	4955.6	7450.1	8432.7	8541.7
30°	1480.7	1471.8	1445.1	1518.5	1965.3	2874.6	4988.9	8030.3	8899.6	9057.4
32.5°	1462.9	1376.2	1342.8	1369.5	1783.0	2656.8	5113.4	8412.7	9477.6	9408.7
35°	1374.0	1296.1	1273.9	1300.6	1654.1	2534.5	5031.2	8746.2	9911.2	10026.8
37.5°	1340.6	1271.7	1227.2	1205.0	1534.0	2432.2	4988.9	9259.8	10331.4	10609.3
40°	1309.5	1236.1	1182.8	1160.5	1440.7	2296.6	4975.6	9655.5	10816.0	10982.8
42.5°	1273.9	1227.2	1167.2	1127.2	1327.3	2161.0	4822.2	9777.8	10965.0	11145.1
44°	1262.8	1191.7	1129.4	1116.1	1282.8	2092.1	4791.1	9888.9	11093.9	11367.4
45°	1251.7	1185.0	1113.8	1096.1	1267.2	2054.3	4748.8	9915.6	11307.4	11358.5
47.5°	1220.6	1178.3	1109.4	1060.5	1233.9	1972.0	4622.1	9764.4	11089.5	11098.4
50°	1196.1	1147.2	1076.0	980.4	1189.4	1903.1	4679.9	9708.9	10564.8	10584.8
52.5°	1169.4	1096.1	1056.0	891.5	1116.1	1845.3	4802.2	9960.1	10624.8	10620.4
55°	1138.3	1058.3	960.4	815.9	993.8	1771.9	5097.9	10455.9	11180.6	11256.2
57.5°	1089.4	1020.5	880.4	749.2	853.7	1631.9	5002.3	9506.5	10286.9	10300.2
60°	1024.9	960.4	798.1	698.1	700.3	1287.3	4473.1	7407.8	8117.0	8310.4
62.5°	962.7	927.1	729.2	624.7	595.8	1024.9	3781.7	6156.1	6967.6	7127.7
65°	889.3	802.6	669.2	569.1	511.3	718.1	2679.0	4599.9	5435.8	5651.5
67.5°	795.9	702.5	589.2	500.2	438.0	480.2	1382.9	2614.5	3461.6	3588.3
70°	695.9	609.2	495.8	422.4	353.5	331.3	609.2	1247.2	1892.0	2023.1
72.5°	571.4	491.3	395.7	333.5	264.6	229.0	204.5	333.5	671.4	780.4
75°	413.5	357.9	297.9	237.9	186.8	146.7	120.1	100.0	111.2	120.1
77.5°	304.6	260.1	220.1	169.0	131.2	104.5	82.3	62.3	60.0	57.8
80°	237.9	211.2	175.6	135.6	102.3	77.8	57.8	42.2	37.8	37.8
82.5°	186.8	173.4	144.5	111.2	84.5	62.3	42.2	28.9	24.5	24.5
85°	71.1	71.1	104.5	91.2	64.5	44.5	28.9	15.6	13.3	13.3
87.5°	17.8	17.8	17.8	17.8	15.6	13.3	13.3	6.7	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)