

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: P529330

Luminaire Tested: **GALN-SA4C-727-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529330
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-SA4C-727-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA 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: 17323 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

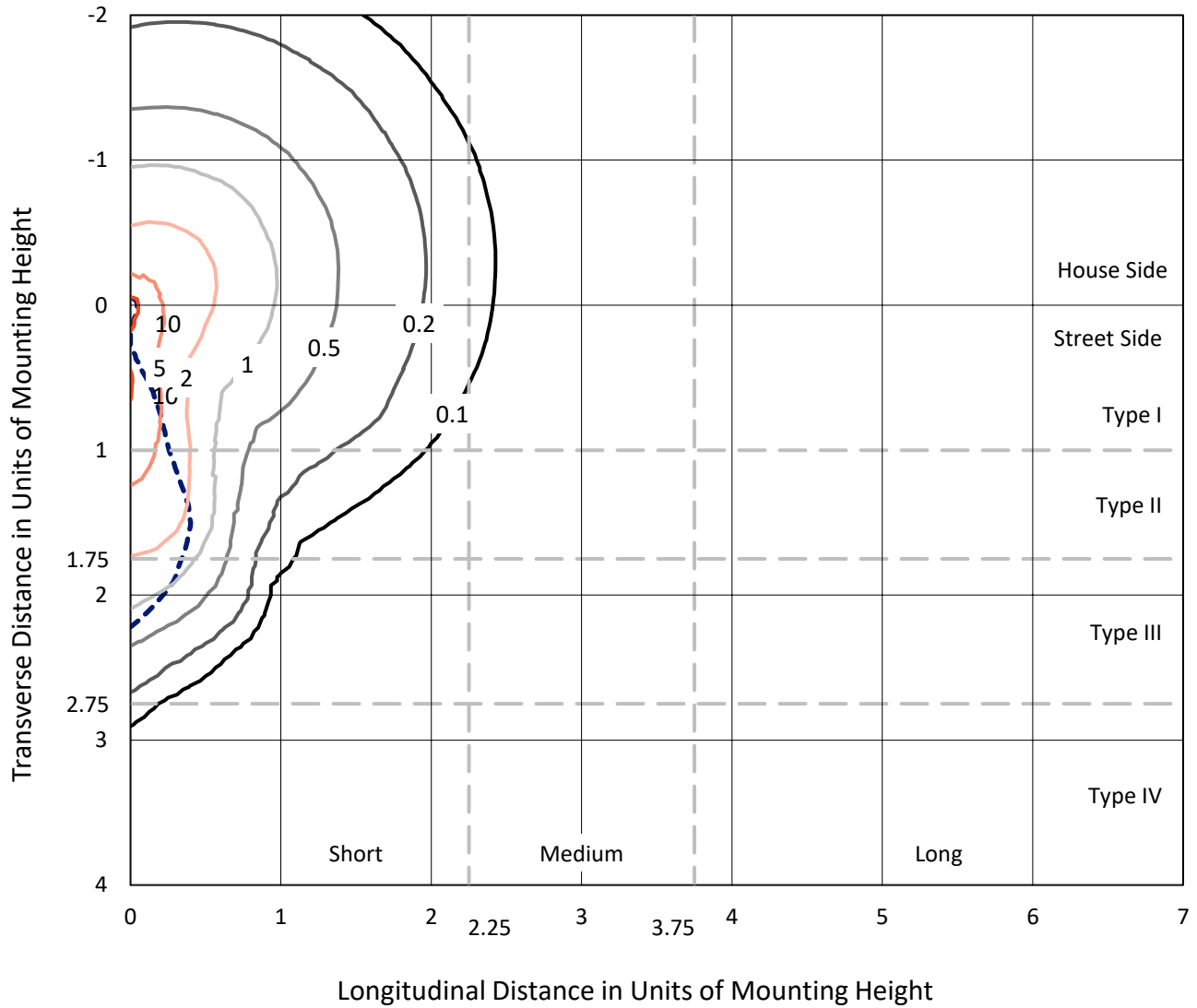
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

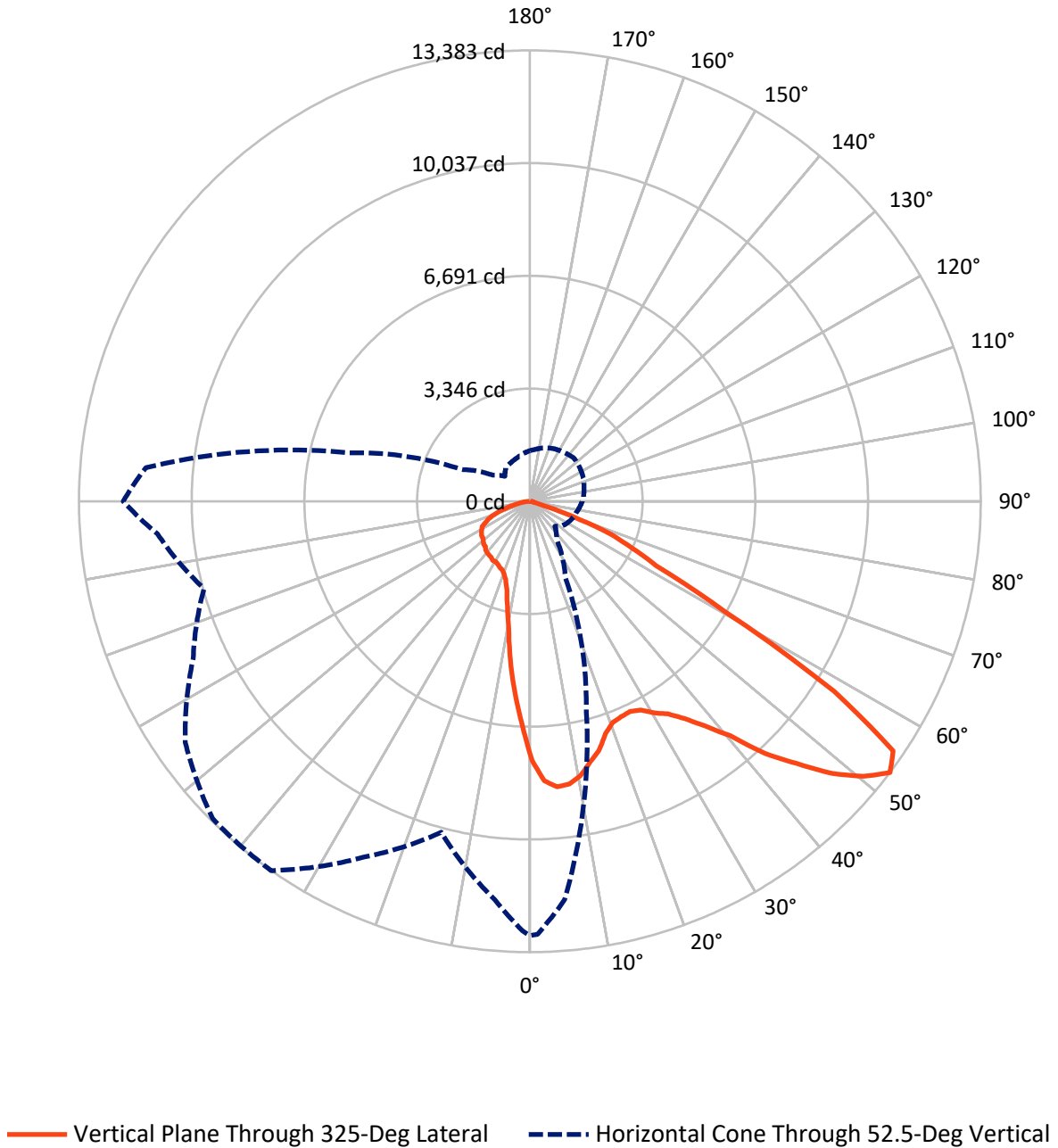
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5222.2	0.0	5222.2
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	12100.8	0.0	12100.8
	% Fixture	69.9	0.0	69.9
Total	Lumens	17323.0	0.0	17323.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.5	3.4
10°-20°	1271.5	7.3
20°-30°	1921.2	11.1
30°-40°	2776.1	16.0
40°-50°	3694.6	21.3
50°-60°	4132.5	23.9
60°-70°	2329.0	13.4
70°-80°	519.2	3.0
80°-90°	92.4	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°	17323.0	100.0
0°-180°	17323.0	100.0

Coefficient of Utilization



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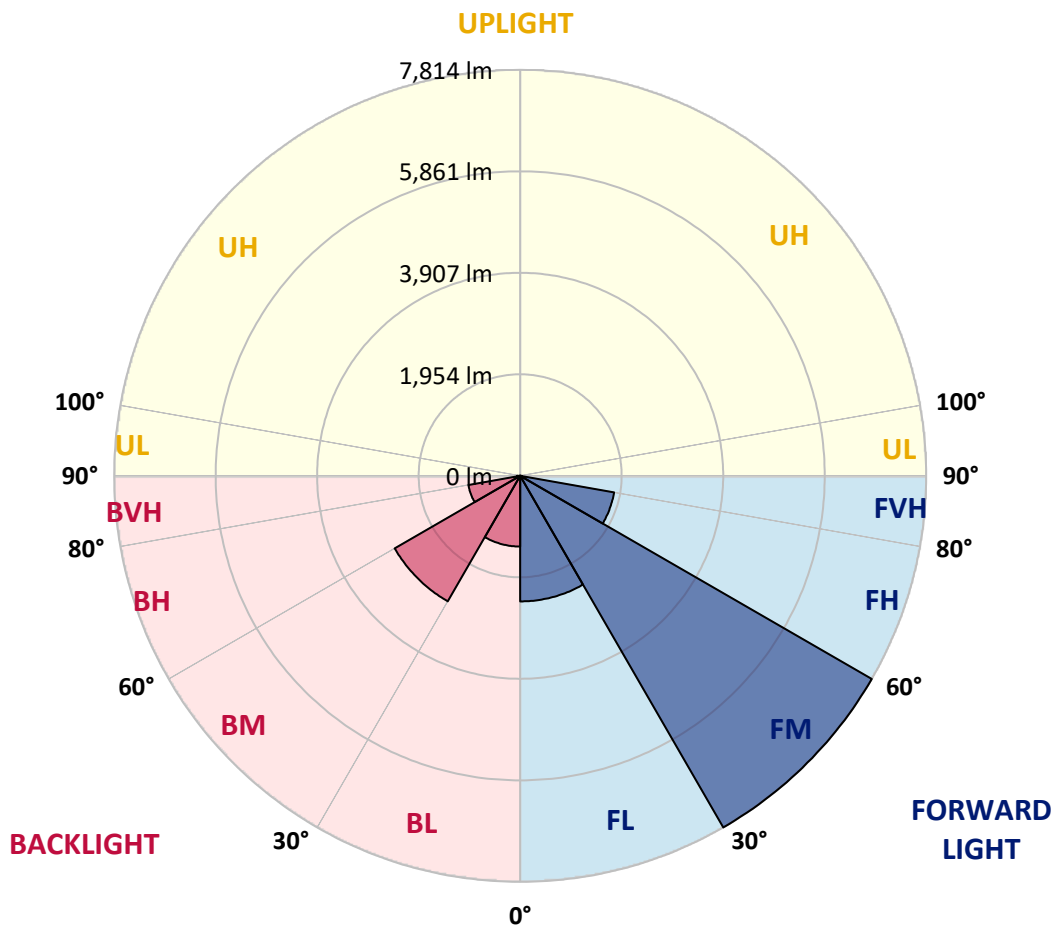
CATALOG NUMBER: GALN-SA4C-727-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2417.4	14.0			
FM (30°-60°)	7814.0	45.1			
FH (60°-80°)	1836.0	10.6			G2/5000
FVH (80°-90°)	33.5	0.2			G1/100
BL (0°-30°)	1361.8	7.9	B3/2500		
BM (30°-60°)	2789.2	16.1	B3/5000		
BH (60°-80°)	1012.2	5.8	B3/2500		G3/2500
BVH (80°-90°)	59.0	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°	7688.1	7688.1	7688.1	7688.1	7688.1	7688.1	7688.1	7688.1	7688.1	7688.1	7688.1
2.5°	7816.1	7941.6	7806.1	7565.0	7394.3	7238.6	7075.4	7042.8	6829.4	6791.7	6636.0
5°	7371.7	7344.1	7178.4	6862.0	6513.0	6196.6	5963.1	5737.2	5584.0	5405.7	5393.2
7.5°	6831.9	6671.2	6575.8	6096.2	5664.4	5167.2	4953.8	4609.8	4501.9	4341.2	4258.3
10°	6349.8	6231.8	6008.3	5528.8	4926.2	4597.3	4368.8	4183.0	4057.4	3891.7	3683.3
12.5°	6111.3	6063.6	5812.5	5069.3	4622.4	4270.9	4110.2	3929.4	3716.0	3449.8	3346.9
15°	6154.0	5993.3	5802.4	4981.4	4363.8	4024.8	3768.7	3542.7	3269.1	3015.5	2867.3
17.5°	6472.8	6349.8	5968.2	5036.7	4265.8	3776.2	3311.7	2977.8	2731.7	2503.3	2400.3
20°	7100.5	6922.3	6492.9	5107.0	4054.9	3429.7	2897.5	2485.7	2222.1	2101.5	2066.4
22.5°	7796.0	7690.6	7005.1	5265.1	3886.7	3108.4	2458.1	2046.3	1948.4	1915.7	1981.0
25°	8642.2	8368.5	7801.0	5523.7	3756.1	2834.7	2086.5	1858.0	1807.8	1840.4	1915.7
27.5°	9284.9	9212.1	8358.4	5767.3	3577.9	2505.8	1878.1	1727.4	1742.5	1775.1	1845.4
30°	10048.2	9679.1	8898.3	5935.5	3417.2	2279.8	1732.4	1692.3	1707.3	1762.6	1797.7
32.5°	10507.7	10369.6	9237.2	6189.1	3231.4	2084.0	1619.5	1581.8	1604.4	1687.3	1770.1
35°	11092.7	10819.0	9656.5	6254.4	3100.8	2006.1	1539.1	1511.5	1564.2	1622.0	1714.9
37.5°	11775.6	11587.3	10236.5	6209.2	3030.5	1925.8	1471.3	1458.8	1496.4	1576.8	1684.7
40°	12179.9	12122.1	10540.3	6236.8	2920.1	1855.5	1393.5	1408.6	1486.4	1549.2	1654.6
42.5°	12569.0	12192.4	10989.7	6226.8	2849.8	1760.1	1401.0	1383.4	1443.7	1516.5	1617.0
45°	12654.4	12280.3	11095.2	6156.5	2764.4	1667.2	1343.3	1350.8	1423.6	1514.0	1579.3
47.5°	12599.2	12323.0	11291.0	6136.4	2684.0	1601.9	1257.9	1348.3	1391.0	1463.8	1556.7
50°	12561.5	12546.4	11456.8	6231.8	2576.1	1498.9	1155.0	1315.7	1358.3	1431.2	1531.6
52.5°	12892.9	12860.3	11871.0	6482.9	2490.7	1388.5	1049.5	1232.8	1335.7	1406.0	1504.0
55°	13093.8	12950.7	12581.6	6791.7	2347.6	1242.8	976.7	1129.9	1280.5	1343.3	1443.7
57.5°	11778.1	11680.2	11381.4	6339.8	2106.6	1052.0	886.3	1024.4	1205.2	1303.1	1406.0
60°	9799.6	9646.5	8880.7	5388.2	1554.2	818.5	831.1	941.5	1185.1	1222.8	1343.3
62.5°	9239.7	8860.6	7818.6	4336.1	1192.6	703.0	745.7	866.2	1079.6	1142.4	1262.9
65°	7331.5	7050.3	5594.1	3131.0	798.4	610.1	680.4	780.9	931.5	1054.5	1165.0
67.5°	4589.7	4321.1	2985.3	1481.4	557.4	522.2	607.6	713.1	836.1	946.6	1069.6
70°	2397.8	2104.0	1378.4	534.8	384.2	426.8	507.2	607.6	728.1	818.5	913.9
72.5°	893.8	725.6	449.4	231.0	266.1	326.4	411.8	484.6	570.0	680.4	733.2
75°	138.1	118.0	115.5	140.6	180.8	236.0	293.8	366.6	441.9	512.2	547.4
77.5°	65.3	62.8	70.3	92.9	120.5	168.2	213.4	283.7	344.0	389.2	409.3
80°	42.7	40.2	45.2	62.8	90.4	125.5	170.7	218.4	273.7	311.3	306.3
82.5°	25.1	27.6	27.6	42.7	62.8	90.4	123.0	165.7	203.4	236.0	215.9
85°	15.1	12.6	12.6	25.1	42.7	72.8	102.9	70.3	72.8	72.8	82.9
87.5°	5.0	5.0	5.0	2.5	5.0	5.0	7.5	12.6	15.1	17.6	22.6
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°	7688.1	7688.1	7688.1	7688.1	7688.1	7688.1	7688.1	7688.1	7688.1	7688.1	7688.1
2.5°	6631.0	6708.8	6681.2	6583.3	6658.6	6671.2	6621.0	6794.2	6826.9	6774.1	6789.2
5°	5375.6	5395.7	5440.9	5536.3	5604.1	5684.4	5684.4	5689.5	5621.7	5792.4	5742.2
7.5°	4188.0	4200.6	4253.3	4456.7	4514.4	4667.6	4732.8	4687.7	4552.1	4494.3	4542.0
10°	3615.5	3542.7	3525.2	3550.3	3680.8	3746.1	3801.3	3786.3	3763.7	3718.5	3668.3
12.5°	3233.9	3181.2	3138.5	3078.2	3085.8	3148.5	3191.2	3156.1	3166.1	3176.2	3191.2
15°	2819.6	2782.0	2759.4	2669.0	2658.9	2701.6	2716.7	2736.8	2774.4	2776.9	2759.4
17.5°	2380.2	2347.6	2397.8	2448.0	2412.9	2415.4	2443.0	2460.6	2450.5	2405.3	2382.7
20°	2078.9	2114.1	2164.3	2212.0	2249.7	2272.3	2282.3	2254.7	2222.1	2129.2	2126.6
22.5°	1991.1	2036.3	2078.9	2151.8	2186.9	2244.7	2191.9	2129.2	2084.0	2038.8	1986.0
25°	1925.8	1963.4	2048.8	2076.4	2144.2	2191.9	2154.3	2091.5	2013.7	1948.4	1908.2
27.5°	1878.1	1920.8	1976.0	2051.3	2104.0	2131.7	2094.0	2068.9	1988.5	1910.7	1853.0
30°	1847.9	1893.1	1993.6	2056.3	2101.5	2124.1	2058.9	2028.7	1971.0	1905.7	1855.5
32.5°	1827.9	1868.0	1953.4	2033.7	2063.9	2063.9	2073.9	2038.8	1958.4	1847.9	1805.3
35°	1762.6	1817.8	1888.1	1981.0	2036.3	2068.9	2018.7	1978.5	1925.8	1812.8	1735.0
37.5°	1724.9	1762.6	1853.0	1940.8	1988.5	2023.7	2003.6	1933.3	1863.0	1770.1	1707.3
40°	1684.7	1745.0	1825.3	1908.2	1960.9	1996.1	1981.0	1898.2	1812.8	1724.9	1682.2
42.5°	1657.1	1697.3	1780.2	1873.1	1935.8	2003.6	1958.4	1855.5	1795.2	1674.7	1627.0
45°	1634.5	1699.8	1787.7	1825.3	1890.6	1960.9	1880.6	1817.8	1747.5	1659.6	1619.5
47.5°	1606.9	1667.2	1724.9	1825.3	1855.5	1888.1	1873.1	1772.6	1712.4	1617.0	1589.3
50°	1596.9	1619.5	1724.9	1780.2	1822.8	1855.5	1815.3	1740.0	1682.2	1584.3	1524.1
52.5°	1556.7	1599.4	1667.2	1740.0	1792.7	1832.9	1767.6	1719.9	1642.1	1539.1	1501.5
55°	1506.5	1531.6	1652.1	1727.4	1755.0	1782.7	1757.6	1679.7	1599.4	1493.9	1456.3
57.5°	1441.2	1498.9	1596.9	1702.3	1737.5	1752.5	1712.4	1649.6	1549.2	1456.3	1396.0
60°	1373.4	1433.7	1541.6	1627.0	1662.1	1717.4	1657.1	1619.5	1504.0	1401.0	1335.7
62.5°	1305.6	1373.4	1453.8	1561.7	1591.8	1614.4	1599.4	1546.6	1453.8	1338.3	1257.9
65°	1225.3	1275.5	1375.9	1431.2	1451.2	1504.0	1451.2	1431.2	1348.3	1237.8	1170.0
67.5°	1104.7	1147.4	1235.3	1288.0	1303.1	1325.7	1323.2	1300.6	1207.7	1132.4	1072.1
70°	966.7	1004.3	1059.6	1122.3	1129.9	1157.5	1132.4	1127.3	1067.1	964.1	931.5
72.5°	775.8	811.0	883.8	911.4	913.9	924.0	911.4	893.8	878.8	770.8	738.2
75°	595.1	615.1	650.3	675.4	675.4	688.0	680.4	662.8	622.7	554.9	522.2
77.5°	414.3	434.4	479.6	494.6	492.1	497.1	474.5	457.0	396.7	361.6	333.9
80°	301.3	313.8	336.4	346.5	349.0	356.5	328.9	313.8	278.7	238.5	226.0
82.5°	218.4	226.0	228.5	241.0	241.0	228.5	220.9	205.9	180.8	155.7	145.6
85°	90.4	92.9	95.4	110.5	113.0	135.6	125.5	118.0	102.9	87.9	80.3
87.5°	22.6	25.1	32.6	27.6	32.6	32.6	35.2	40.2	40.2	32.6	32.6
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°	7688.1	7688.1	7688.1	7688.1	7688.1	7688.1	7688.1	7688.1	7688.1	7688.1	7688.1
2.5°	6846.9	6867.0	7123.1	7155.8	7281.3	7409.4	7668.0	7853.8	8004.4	8102.3	8130.0
5°	5794.9	5923.0	6041.0	6231.8	6405.0	6651.1	6934.8	7286.3	7728.2	7954.2	8044.6
7.5°	4537.0	4687.7	4858.4	5044.2	5297.8	5739.7	6118.8	6525.6	7090.5	7324.0	7678.0
10°	3703.4	3871.6	4097.6	4240.7	4547.0	4968.9	5410.8	5880.3	6420.1	6756.5	7165.8
12.5°	3274.1	3412.2	3620.6	3921.9	4150.3	4424.0	4752.9	5345.5	6118.8	6437.7	6718.9
15°	2799.5	2952.7	3193.7	3527.7	3801.3	4127.7	4496.8	5142.1	5965.6	6457.8	6696.3
17.5°	2407.9	2518.3	2771.9	3060.7	3374.5	3731.0	4260.8	5132.1	6126.3	6756.5	7145.7
20°	2136.7	2151.8	2289.8	2535.9	2962.7	3427.2	4115.2	5081.8	6641.1	7271.3	7763.4
22.5°	1966.0	1950.9	1953.4	2161.8	2460.6	3128.5	3886.7	5252.6	7226.1	8089.8	8421.2
25°	1880.6	1840.4	1815.3	1860.5	2131.7	2774.4	3713.5	5478.6	7856.3	8765.2	9171.9
27.5°	1835.4	1765.1	1714.9	1722.4	1920.8	2596.2	3605.5	5576.5	8481.5	9706.7	9849.8
30°	1817.8	1729.9	1657.1	1632.0	1762.6	2347.6	3374.5	5744.7	9041.4	10224.0	10347.0
32.5°	1755.0	1647.1	1576.8	1554.2	1606.9	2129.2	3208.8	5865.2	9536.0	10786.4	10743.7
35°	1682.2	1591.8	1504.0	1461.3	1498.9	1988.5	3075.7	5807.5	10118.5	11223.3	11200.7
37.5°	1674.7	1556.7	1483.9	1413.6	1411.1	1815.3	2894.9	5862.7	10490.1	12006.6	11697.8
40°	1609.4	1534.1	1438.7	1380.9	1348.3	1727.4	2719.2	5732.1	11034.9	12323.0	12019.2
42.5°	1611.9	1498.9	1416.1	1348.3	1315.7	1599.4	2598.7	5697.0	11225.8	12837.7	12169.8
45°	1571.8	1461.3	1391.0	1310.6	1293.1	1501.5	2483.2	5533.8	11562.2	12862.8	11981.5
47.5°	1531.6	1433.7	1358.3	1262.9	1222.8	1466.3	2392.8	5398.2	11386.5	12626.8	11720.4
50°	1504.0	1391.0	1320.7	1252.9	1139.9	1406.0	2274.8	5365.6	11140.4	12307.9	11235.8
52.5°	1456.3	1355.8	1283.0	1230.3	1049.5	1350.8	2229.6	5556.4	11441.7	12069.4	11095.2
55°	1411.1	1308.1	1215.2	1112.3	974.2	1205.2	2104.0	5734.7	11881.1	12619.3	11732.9
57.5°	1363.4	1265.4	1165.0	1042.0	901.4	1054.5	1973.5	5767.3	11057.5	11662.6	11137.9
60°	1300.6	1175.1	1099.7	939.0	823.5	873.8	1564.2	5084.4	8576.9	9739.4	9756.9
62.5°	1230.3	1094.7	1029.4	841.1	743.2	753.2	1275.5	4273.4	6957.4	8062.2	8541.7
65°	1137.4	1006.8	929.0	778.3	685.4	652.8	934.0	3131.0	5285.2	6540.6	7085.5
67.5°	1016.9	893.8	795.9	677.9	612.6	559.9	637.7	1762.6	3120.9	4391.4	4557.1
70°	888.8	783.4	680.4	582.5	509.7	472.0	467.0	780.9	1491.4	2362.7	2689.1
72.5°	700.5	625.2	542.3	469.5	421.8	366.6	333.9	323.9	504.7	961.6	1328.2
75°	502.2	439.4	391.7	344.0	308.8	278.7	253.6	231.0	210.9	241.0	331.4
77.5°	316.4	293.8	256.1	243.5	223.5	215.9	205.9	193.3	178.3	168.2	168.2
80°	213.4	198.4	185.8	183.3	175.8	173.2	175.8	163.2	148.1	135.6	140.6
82.5°	143.1	140.6	138.1	135.6	138.1	140.6	145.6	143.1	130.6	123.0	125.5
85°	85.4	90.4	95.4	100.4	110.5	97.9	80.3	67.8	60.3	55.2	52.7
87.5°	32.6	45.2	40.2	37.7	40.2	37.7	35.2	32.6	27.6	25.1	25.1
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: P529330

CATALOG NUMBER: GALN-SA4C-727-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7688.1	7688.1	7688.1	7688.1	7688.1	7688.1	7688.1	7688.1	7688.1	7688.1
2.5°	8313.2	8363.5	8406.1	8396.1	8308.2	8190.2	8142.5	7899.0	7848.7	7816.1
5°	8426.2	8717.5	8780.2	8742.6	8514.1	8225.4	7944.2	7587.6	7379.2	7371.7
7.5°	8217.8	8576.9	8689.9	8775.2	8471.4	7969.3	7487.2	6952.4	6821.8	6831.9
10°	7688.1	8260.5	8539.2	8627.1	8278.1	7843.7	7175.9	6633.5	6354.8	6349.8
12.5°	7394.3	7843.7	7921.6	8044.6	7941.6	7502.3	6995.1	6387.5	6116.3	6111.3
15°	7133.2	7429.4	7452.0	7625.3	7680.5	7384.2	7042.8	6395.0	6176.6	6154.0
17.5°	7361.7	7155.8	7070.4	7093.0	7256.2	7364.2	7319.0	6821.8	6598.4	6472.8
20°	7514.8	7055.3	6796.7	6821.8	7015.2	7409.4	7730.7	7439.5	7085.5	7100.5
22.5°	7924.1	7070.4	6666.2	6638.5	6944.9	7645.4	8195.2	8220.3	7878.9	7796.0
25°	8536.7	7243.6	6626.0	6618.5	6912.2	7899.0	8737.6	9144.3	8795.3	8642.2
27.5°	9028.8	7514.8	6751.5	6776.6	7015.2	8104.8	9199.6	9739.4	9473.2	9284.9
30°	9460.7	7796.0	6927.3	6811.8	7291.3	8212.8	9397.9	10417.3	10203.9	10048.2
32.5°	9638.9	8195.2	7206.0	7015.2	7519.8	8343.4	9809.7	11075.1	10891.8	10507.7
35°	9940.2	8418.7	7356.6	7341.6	7919.0	8657.2	10003.0	11509.5	11434.2	11092.7
37.5°	10181.3	8644.7	7891.4	7725.7	8466.4	9184.5	10314.3	12109.6	11936.3	11775.6
40°	10367.1	9048.9	8391.1	8609.5	9139.3	9664.0	10600.6	12147.2	12646.9	12179.9
42.5°	10196.3	9410.5	9212.1	9734.4	10236.5	10211.4	10633.2	12438.5	12812.6	12569.0
45°	10153.7	10023.1	10510.2	10984.7	11100.2	10665.9	10399.7	12117.1	12762.4	12654.4
47.5°	10050.7	10625.7	11474.3	12247.7	12071.9	10969.7	10121.0	12059.3	12792.5	12599.2
50°	10015.6	10756.2	12187.4	12940.6	12835.2	11233.3	9990.5	11687.8	12579.1	12561.5
52.5°	10013.0	11024.9	12483.7	13317.3	13382.5	11650.1	10168.7	11876.1	12744.8	12892.9
55°	10126.0	10939.5	12446.0	13108.9	13083.8	11464.3	10188.8	12001.6	12948.2	13093.8
57.5°	9551.1	9799.6	10271.7	10796.4	10660.8	9495.8	9099.1	11095.2	11883.6	11778.1
60°	8248.0	7469.6	6937.3	6912.2	6648.6	6284.5	7447.0	9902.6	9902.6	9799.6
62.5°	7223.6	4903.6	4213.1	4017.3	4205.6	4624.9	7183.4	9631.4	9357.7	9239.7
65°	6317.2	3743.6	3045.6	2990.4	3316.8	3949.5	6495.4	8205.3	7723.2	7331.5
67.5°	4065.0	2741.8	2264.7	2166.8	2561.0	2900.0	4323.6	5046.7	4742.9	4589.7
70°	2621.3	1785.2	1260.4	1182.6	1335.7	1787.7	2761.9	2942.7	2500.8	2397.8
72.5°	1240.3	770.8	441.9	364.1	409.3	682.9	1092.2	1175.1	976.7	893.8
75°	394.2	283.7	180.8	155.7	148.1	175.8	251.1	193.3	140.6	138.1
77.5°	175.8	168.2	143.1	120.5	105.5	87.9	72.8	60.3	62.8	65.3
80°	145.6	133.1	118.0	105.5	87.9	67.8	52.7	40.2	40.2	42.7
82.5°	128.1	115.5	102.9	87.9	75.3	55.2	40.2	27.6	25.1	25.1
85°	55.2	65.3	70.3	75.3	60.3	45.2	27.6	17.6	15.1	15.1
87.5°	22.6	20.1	17.6	15.1	12.6	12.6	10.0	7.5	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)