

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: P529174

Luminaire Tested: **GALN-SA4B-740-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529174
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-SA4B-740-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA 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: 16764 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

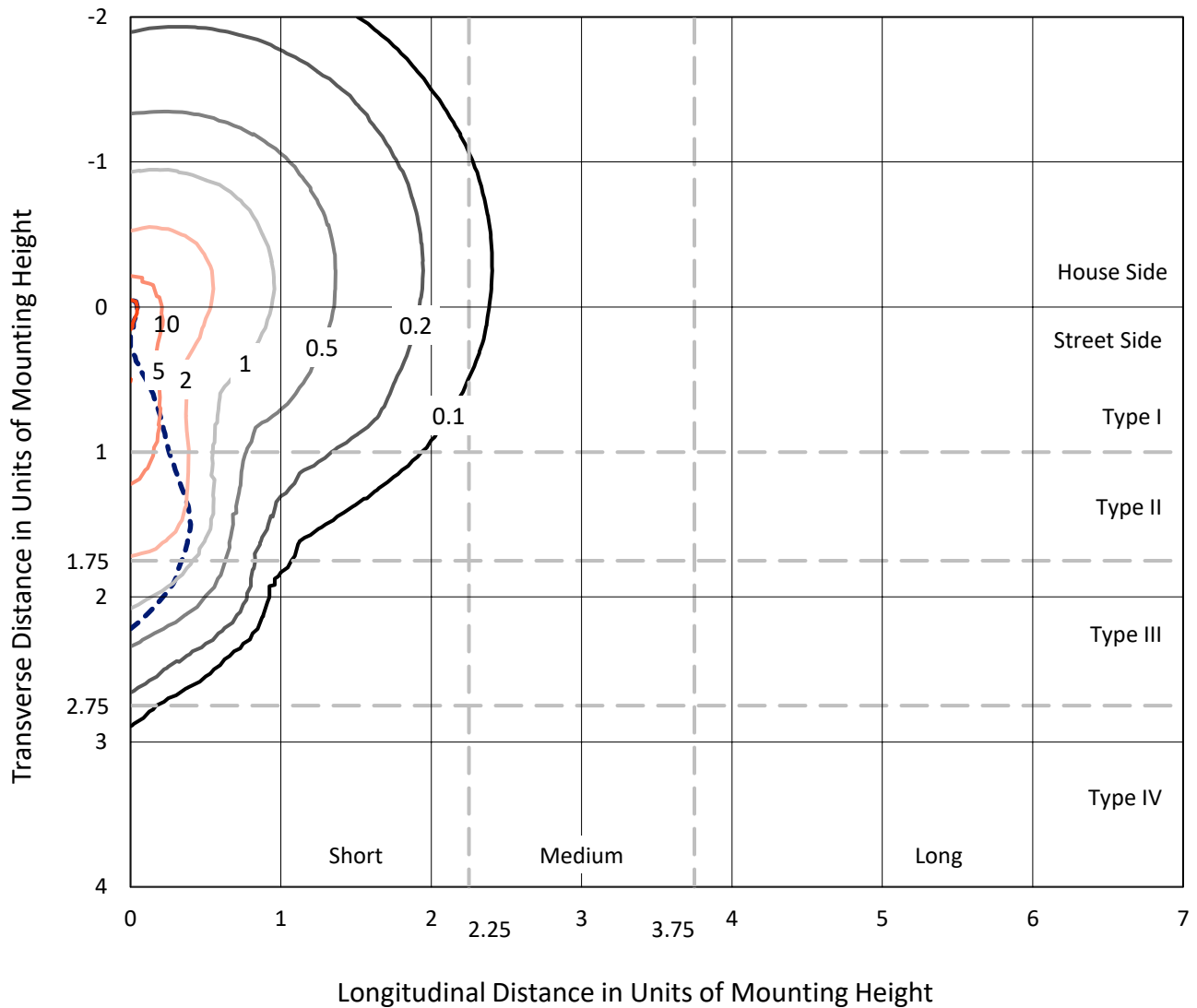
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

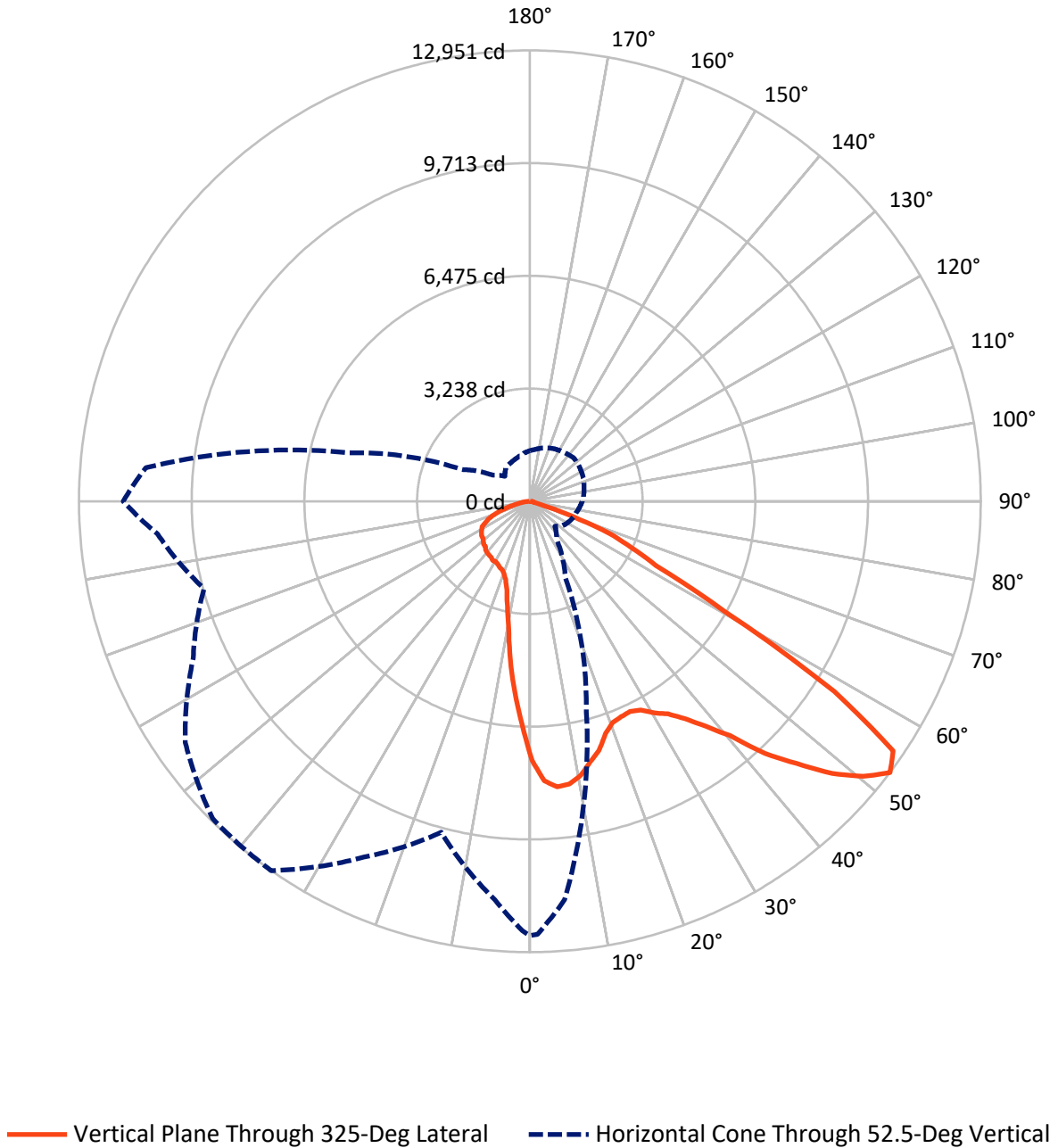
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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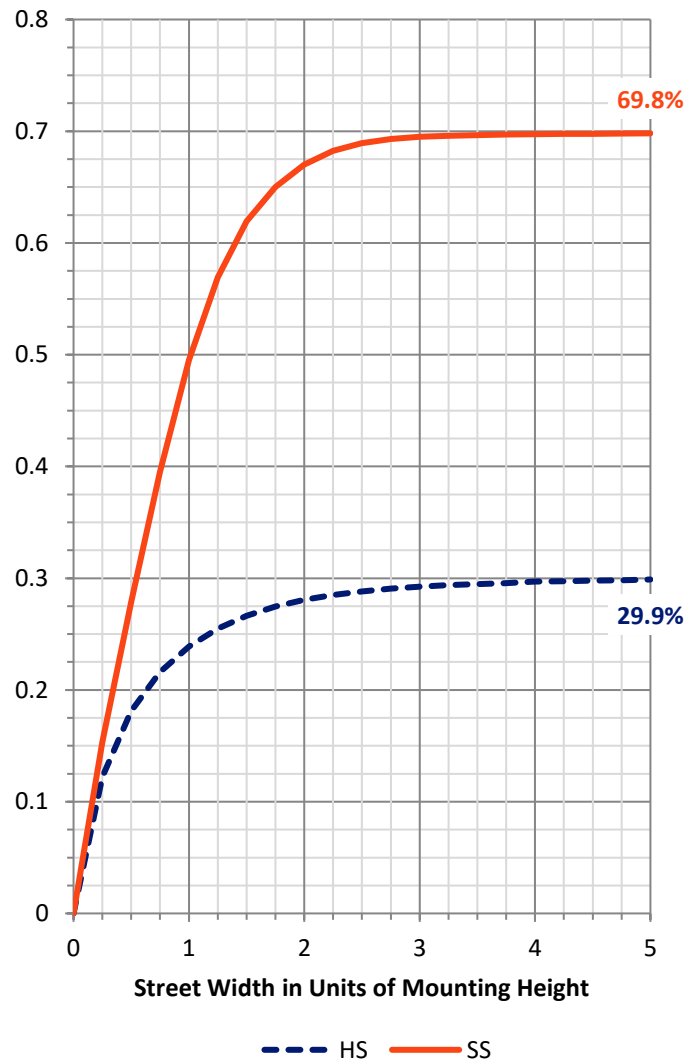
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5053.6	0.0	5053.6
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	11710.4	0.0	11710.4
	% Fixture	69.9	0.0	69.9
Total	Lumens	16764.0	0.0	16764.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.6	3.4
10°-20°	1230.5	7.3
20°-30°	1859.2	11.1
30°-40°	2686.6	16.0
40°-50°	3575.3	21.3
50°-60°	3999.1	23.9
60°-70°	2253.9	13.4
70°-80°	502.4	3.0
80°-90°	89.5	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°	16764.0	100.0
0°-180°	16764.0	100.0



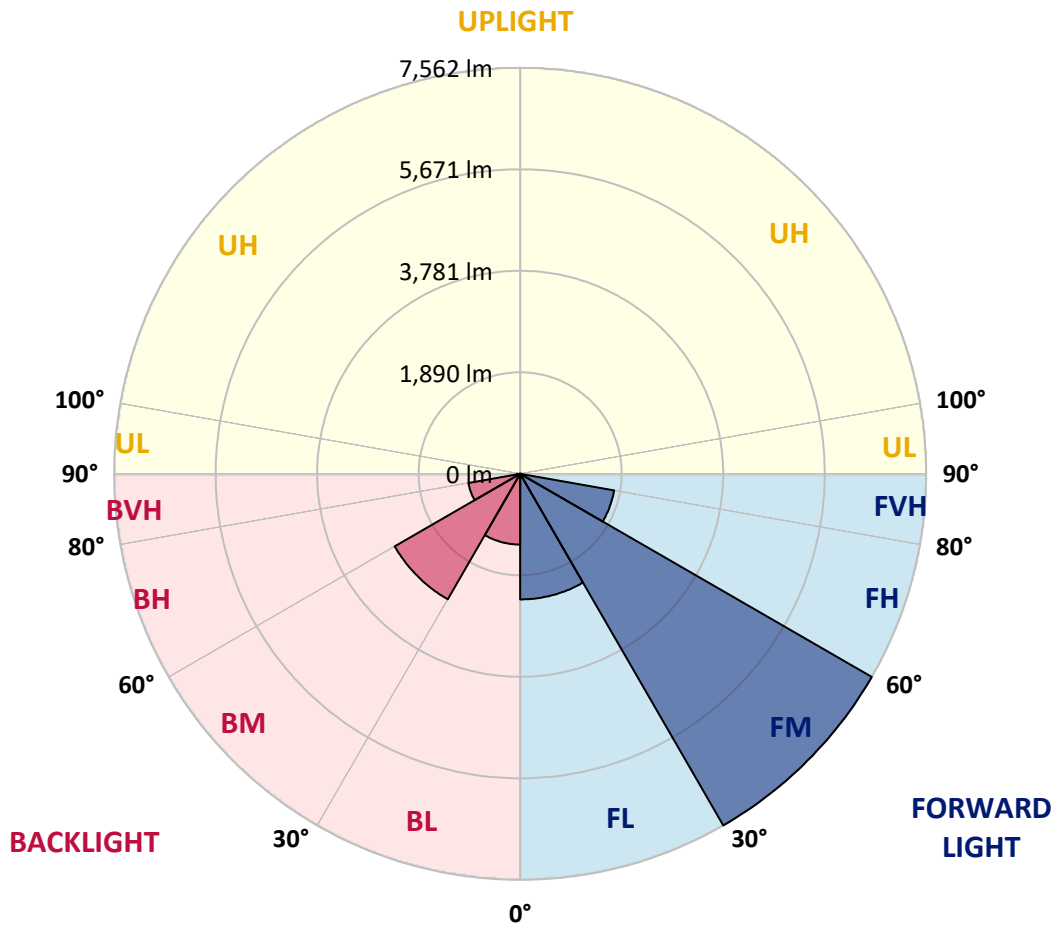
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2339.4	14.0			
FM (30°-60°)	7561.8	45.1			
FH (60°-80°)	1776.7	10.6			G1/1800
FVH (80°-90°)	32.4	0.2			G1/100
BL (0°-30°)	1317.9	7.9	B3/2500		
BM (30°-60°)	2699.2	16.1	B3/5000		
BH (60°-80°)	979.6	5.8	B2/1000		G2/1000
BVH (80°-90°)	57.1	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7440.0	7440.0	7440.0	7440.0	7440.0	7440.0	7440.0	7440.0	7440.0	7440.0	7440.0
2.5°	7563.9	7685.4	7554.2	7320.9	7155.7	7005.0	6847.1	6815.5	6609.0	6572.5	6421.9
5°	7133.8	7107.1	6946.7	6640.6	6302.8	5996.7	5770.7	5552.0	5403.8	5231.3	5219.2
7.5°	6611.4	6455.9	6363.6	5899.5	5481.6	5000.5	4793.9	4461.1	4356.6	4201.1	4120.9
10°	6144.9	6030.7	5814.4	5350.4	4767.2	4448.9	4227.8	4048.0	3926.5	3766.1	3564.5
12.5°	5914.1	5867.9	5624.9	4905.7	4473.2	4133.0	3977.5	3802.6	3596.1	3338.5	3238.9
15°	5955.4	5799.9	5615.2	4820.7	4222.9	3894.9	3647.1	3428.4	3163.6	2918.2	2774.8
17.5°	6264.0	6144.9	5775.6	4874.1	4128.2	3654.4	3204.9	2881.7	2643.6	2422.5	2322.9
20°	6871.4	6698.9	6283.4	4942.2	3924.1	3319.1	2804.0	2405.5	2150.3	2033.7	1999.7
22.5°	7544.4	7442.4	6779.1	5095.2	3761.3	3008.1	2378.7	1980.3	1885.5	1853.9	1917.1
25°	8363.3	8098.4	7549.3	5345.5	3634.9	2743.2	2019.1	1798.0	1749.4	1781.0	1853.9
27.5°	8985.3	8914.8	8088.7	5581.2	3462.4	2424.9	1817.5	1671.7	1686.3	1717.8	1785.9
30°	9724.0	9366.8	8611.1	5744.0	3306.9	2206.2	1676.5	1637.7	1652.2	1705.7	1739.7
32.5°	10168.6	10035.0	8939.1	5989.4	3127.1	2016.7	1567.2	1530.8	1552.6	1632.8	1713.0
35°	10734.7	10469.9	9344.9	6052.6	3000.8	1941.4	1489.5	1462.7	1513.7	1569.6	1659.5
37.5°	11395.6	11213.4	9906.2	6008.8	2932.7	1863.6	1423.8	1411.7	1448.1	1525.9	1630.4
40°	11786.8	11730.9	10200.2	6035.6	2825.8	1795.6	1348.5	1363.1	1438.4	1499.2	1601.2
42.5°	12163.4	11799.0	10635.1	6025.8	2757.8	1703.3	1355.8	1338.8	1397.1	1467.6	1564.8
45°	12246.1	11884.0	10737.2	5957.8	2675.2	1613.4	1299.9	1307.2	1377.7	1465.2	1528.3
47.5°	12192.6	11925.3	10926.7	5938.4	2597.4	1550.2	1217.3	1304.8	1346.1	1416.6	1506.5
50°	12156.2	12141.6	11087.1	6030.7	2492.9	1450.6	1117.7	1273.2	1314.5	1385.0	1482.2
52.5°	12476.9	12445.3	11488.0	6273.7	2410.3	1343.7	1015.6	1193.0	1292.6	1360.7	1455.4
55°	12671.3	12532.8	12175.6	6572.5	2271.8	1202.7	945.2	1093.4	1239.2	1299.9	1397.1
57.5°	11398.1	11303.3	11014.2	6135.2	2038.6	1018.1	857.7	991.3	1166.3	1261.1	1360.7
60°	9483.4	9335.2	8594.1	5214.3	1504.0	792.1	804.3	911.2	1146.9	1183.3	1299.9
62.5°	8941.6	8574.7	7566.3	4196.2	1154.1	680.3	721.6	838.3	1044.8	1105.5	1222.2
65°	7094.9	6822.8	5413.5	3029.9	772.7	590.4	658.5	755.7	901.4	1020.5	1127.4
67.5°	4441.6	4181.6	2889.0	1433.6	539.4	505.4	588.0	690.1	809.1	916.0	1035.1
70°	2320.4	2036.2	1333.9	517.5	371.8	413.1	490.8	588.0	704.6	792.1	884.4
72.5°	865.0	702.2	434.9	223.5	257.6	315.9	398.5	468.9	551.6	658.5	709.5
75°	133.6	114.2	111.8	136.1	174.9	228.4	284.3	354.7	427.6	495.7	529.7
77.5°	63.2	60.7	68.0	89.9	116.6	162.8	206.5	274.6	332.9	376.6	396.1
80°	41.3	38.9	43.7	60.7	87.5	121.5	165.2	211.4	264.8	301.3	296.4
82.5°	24.3	26.7	26.7	41.3	60.7	87.5	119.1	160.4	196.8	228.4	209.0
85°	14.6	12.1	12.1	24.3	41.3	70.5	99.6	68.0	70.5	70.5	80.2
87.5°	4.9	4.9	4.9	2.4	4.9	4.9	7.3	12.1	14.6	17.0	21.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7440.0	7440.0	7440.0	7440.0	7440.0	7440.0	7440.0	7440.0	7440.0	7440.0	7440.0
2.5°	6417.0	6492.4	6465.6	6370.9	6443.8	6455.9	6407.3	6575.0	6606.6	6555.5	6570.1
5°	5202.1	5221.6	5265.3	5357.7	5423.3	5501.0	5501.0	5505.9	5440.3	5605.5	5556.9
7.5°	4052.9	4065.0	4116.0	4312.8	4368.7	4516.9	4580.1	4536.4	4405.2	4349.3	4395.5
10°	3498.9	3428.4	3411.4	3435.7	3562.0	3625.2	3678.7	3664.1	3642.2	3598.5	3549.9
12.5°	3129.5	3078.5	3037.2	2978.9	2986.2	3046.9	3088.2	3054.2	3063.9	3073.7	3088.2
15°	2728.6	2692.2	2670.3	2582.8	2573.1	2614.4	2629.0	2648.5	2684.9	2687.3	2670.3
17.5°	2303.4	2271.8	2320.4	2369.0	2335.0	2337.4	2364.2	2381.2	2371.5	2327.7	2305.9
20°	2011.9	2045.9	2094.5	2140.6	2177.1	2198.9	2208.7	2181.9	2150.3	2060.4	2058.0
22.5°	1926.8	1970.5	2011.9	2082.3	2116.3	2172.2	2121.2	2060.4	2016.7	1973.0	1922.0
25°	1863.6	1900.1	1982.7	2009.4	2075.0	2121.2	2084.7	2024.0	1948.7	1885.5	1846.6
27.5°	1817.5	1858.8	1912.2	1985.1	2036.2	2062.9	2026.4	2002.1	1924.4	1849.1	1793.2
30°	1788.3	1832.0	1929.2	1990.0	2033.7	2055.6	1992.4	1963.3	1907.4	1844.2	1795.6
32.5°	1768.9	1807.8	1890.4	1968.1	1997.3	1997.3	2007.0	1973.0	1895.2	1788.3	1747.0
35°	1705.7	1759.2	1827.2	1917.1	1970.5	2002.1	1953.5	1914.7	1863.6	1754.3	1679.0
37.5°	1669.3	1705.7	1793.2	1878.2	1924.4	1958.4	1939.0	1870.9	1802.9	1713.0	1652.2
40°	1630.4	1688.7	1766.4	1846.6	1897.7	1931.7	1917.1	1836.9	1754.3	1669.3	1627.9
42.5°	1603.7	1642.5	1722.7	1812.6	1873.4	1939.0	1895.2	1795.6	1737.3	1620.7	1574.5
45°	1581.8	1645.0	1730.0	1766.4	1829.6	1897.7	1819.9	1759.2	1691.1	1606.1	1567.2
47.5°	1555.1	1613.4	1669.3	1766.4	1795.6	1827.2	1812.6	1715.4	1657.1	1564.8	1538.0
50°	1545.3	1567.2	1669.3	1722.7	1764.0	1795.6	1756.7	1683.8	1627.9	1533.2	1474.9
52.5°	1506.5	1547.8	1613.4	1683.8	1734.9	1773.7	1710.6	1664.4	1589.1	1489.5	1453.0
55°	1457.9	1482.2	1598.8	1671.7	1698.4	1725.1	1700.8	1625.5	1547.8	1445.7	1409.3
57.5°	1394.7	1450.6	1545.3	1647.4	1681.4	1696.0	1657.1	1596.4	1499.2	1409.3	1351.0
60°	1329.1	1387.4	1491.9	1574.5	1608.5	1662.0	1603.7	1567.2	1455.4	1355.8	1292.6
62.5°	1263.5	1329.1	1406.8	1511.3	1540.5	1562.3	1547.8	1496.7	1406.8	1295.1	1217.3
65°	1185.7	1234.3	1331.5	1385.0	1404.4	1455.4	1404.4	1385.0	1304.8	1197.9	1132.3
67.5°	1069.1	1110.4	1195.4	1246.5	1261.1	1282.9	1280.5	1258.6	1168.7	1095.8	1037.5
70°	935.5	971.9	1025.4	1086.1	1093.4	1120.1	1095.8	1091.0	1032.7	933.0	901.4
72.5°	750.8	784.8	855.3	882.0	884.4	894.2	882.0	865.0	850.4	745.9	714.4
75°	575.9	595.3	629.3	653.6	653.6	665.8	658.5	641.5	602.6	537.0	505.4
77.5°	400.9	420.4	464.1	478.7	476.2	481.1	459.2	442.2	383.9	349.9	323.2
80°	291.6	303.7	325.6	335.3	337.7	345.0	318.3	303.7	269.7	230.8	218.7
82.5°	211.4	218.7	221.1	233.3	233.3	221.1	213.8	199.2	174.9	150.6	140.9
85°	87.5	89.9	92.3	106.9	109.3	131.2	121.5	114.2	99.6	85.0	77.8
87.5°	21.9	24.3	31.6	26.7	31.6	31.6	34.0	38.9	38.9	31.6	31.6
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°	7440.0	7440.0	7440.0	7440.0	7440.0	7440.0	7440.0	7440.0	7440.0	7440.0	7440.0
2.5°	6626.0	6645.4	6893.3	6924.9	7046.3	7170.3	7420.5	7600.3	7746.1	7840.9	7867.6
5°	5607.9	5731.8	5846.0	6030.7	6198.4	6436.5	6711.0	7051.2	7478.8	7697.5	7785.0
7.5°	4390.6	4536.4	4701.6	4881.4	5126.8	5554.5	5921.4	6315.0	6861.7	7087.6	7430.2
10°	3583.9	3746.7	3965.4	4103.9	4400.3	4808.5	5236.2	5690.5	6212.9	6538.5	6934.6
12.5°	3168.4	3302.1	3503.7	3795.3	4016.4	4281.3	4599.6	5173.0	5921.4	6229.9	6502.1
15°	2709.2	2857.4	3090.7	3413.8	3678.7	3994.5	4351.7	4976.2	5773.1	6249.4	6480.2
17.5°	2330.2	2437.1	2682.5	2961.9	3265.6	3610.6	4123.3	4966.5	5928.6	6538.5	6915.1
20°	2067.7	2082.3	2216.0	2454.1	2867.1	3316.6	3982.4	4917.9	6426.8	7036.6	7512.9
22.5°	1902.5	1887.9	1890.4	2092.0	2381.2	3027.5	3761.3	5083.1	6992.9	7828.7	8149.5
25°	1819.9	1781.0	1756.7	1800.5	2062.9	2684.9	3593.6	5301.8	7602.8	8482.3	8876.0
27.5°	1776.2	1708.1	1659.5	1666.8	1858.8	2512.4	3489.2	5396.5	8207.8	9393.5	9532.0
30°	1759.2	1674.1	1603.7	1579.4	1705.7	2271.8	3265.6	5559.3	8749.6	9894.0	10013.1
32.5°	1698.4	1593.9	1525.9	1504.0	1555.1	2060.4	3105.3	5676.0	9228.3	10438.3	10397.0
35°	1627.9	1540.5	1455.4	1414.1	1450.6	1924.4	2976.5	5620.1	9792.0	10861.1	10839.2
37.5°	1620.7	1506.5	1436.0	1368.0	1365.5	1756.7	2801.5	5673.5	10151.6	11619.2	11320.3
40°	1557.5	1484.6	1392.3	1336.4	1304.8	1671.7	2631.4	5547.2	10678.9	11925.3	11631.3
42.5°	1559.9	1450.6	1370.4	1304.8	1273.2	1547.8	2514.8	5513.2	10863.5	12423.4	11777.1
45°	1521.0	1414.1	1346.1	1268.3	1251.3	1453.0	2403.0	5355.2	11189.1	12447.7	11594.9
47.5°	1482.2	1387.4	1314.5	1222.2	1183.3	1419.0	2315.6	5224.0	11019.0	12219.3	11342.2
50°	1455.4	1346.1	1278.1	1212.5	1103.1	1360.7	2201.4	5192.4	10780.9	11910.7	10873.2
52.5°	1409.3	1312.1	1241.6	1190.6	1015.6	1307.2	2157.6	5377.1	11072.5	11679.9	10737.2
55°	1365.5	1265.9	1176.0	1076.4	942.8	1166.3	2036.2	5549.6	11497.7	12212.0	11354.3
57.5°	1319.4	1224.6	1127.4	1008.4	872.3	1020.5	1909.8	5581.2	10700.7	11286.3	10778.5
60°	1258.6	1137.1	1064.2	908.7	797.0	845.6	1513.7	4920.3	8300.1	9425.1	9442.1
62.5°	1190.6	1059.4	996.2	814.0	719.2	728.9	1234.3	4135.5	6732.9	7802.0	8266.1
65°	1100.7	974.3	899.0	753.2	663.3	631.7	903.9	3029.9	5114.7	6329.6	6856.8
67.5°	984.1	865.0	770.2	656.0	592.9	541.8	617.2	1705.7	3020.2	4249.7	4410.0
70°	860.1	758.1	658.5	563.7	493.2	456.8	451.9	755.7	1443.3	2286.4	2602.3
72.5°	677.9	605.0	524.8	454.4	408.2	354.7	323.2	313.4	488.4	930.6	1285.4
75°	486.0	425.2	379.0	332.9	298.9	269.7	245.4	223.5	204.1	233.3	320.7
77.5°	306.2	284.3	247.8	235.7	216.2	209.0	199.2	187.1	172.5	162.8	162.8
80°	206.5	192.0	179.8	177.4	170.1	167.7	170.1	157.9	143.4	131.2	136.1
82.5°	138.5	136.1	133.6	131.2	133.6	136.1	140.9	138.5	126.3	119.1	121.5
85°	82.6	87.5	92.3	97.2	106.9	94.8	77.8	65.6	58.3	53.5	51.0
87.5°	31.6	43.7	38.9	36.4	38.9	36.4	34.0	31.6	26.7	24.3	24.3
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: P529174

CATALOG NUMBER: GALN-SA4B-740-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7440.0	7440.0	7440.0	7440.0	7440.0	7440.0	7440.0	7440.0	7440.0	7440.0
2.5°	8045.0	8093.6	8134.9	8125.2	8040.1	7925.9	7879.8	7644.1	7595.5	7563.9
5°	8154.3	8436.2	8496.9	8460.5	8239.4	7959.9	7687.8	7342.8	7141.1	7133.8
7.5°	7952.6	8300.1	8409.4	8492.1	8198.1	7712.1	7245.6	6728.0	6601.7	6611.4
10°	7440.0	7994.0	8263.7	8348.7	8011.0	7590.6	6944.3	6419.5	6149.8	6144.9
12.5°	7155.7	7590.6	7665.9	7785.0	7685.4	7260.2	6769.3	6181.3	5918.9	5914.1
15°	6903.0	7189.7	7211.6	7379.2	7432.7	7146.0	6815.5	6188.6	5977.2	5955.4
17.5°	7124.1	6924.9	6842.2	6864.1	7022.0	7126.5	7082.8	6601.7	6385.4	6264.0
20°	7272.3	6827.7	6577.4	6601.7	6788.8	7170.3	7481.3	7199.4	6856.8	6871.4
22.5°	7668.4	6842.2	6451.0	6424.3	6720.8	7398.7	7930.8	7955.1	7624.6	7544.4
25°	8261.2	7009.9	6412.2	6404.9	6689.2	7644.1	8455.6	8849.2	8511.5	8363.3
27.5°	8737.5	7272.3	6533.7	6558.0	6788.8	7843.3	8902.7	9425.1	9167.5	8985.3
30°	9155.4	7544.4	6703.7	6592.0	7056.1	7947.8	9094.6	10081.1	9874.6	9724.0
32.5°	9327.9	7930.8	6973.4	6788.8	7277.2	8074.1	9493.1	10717.7	10540.4	10168.6
35°	9619.5	8147.0	7119.2	7104.7	7663.5	8377.9	9680.2	11138.1	11065.2	10734.7
37.5°	9852.7	8365.7	7636.8	7476.4	8193.2	8888.1	9981.5	11718.8	11551.1	11395.6
40°	10032.5	8756.9	8120.3	8331.7	8844.4	9352.2	10258.5	11755.2	12238.8	11786.8
42.5°	9867.3	9106.8	8914.8	9420.2	9906.2	9881.9	10290.1	12037.1	12399.1	12163.4
45°	9826.0	9699.7	10171.0	10630.3	10742.0	10321.7	10064.1	11726.1	12350.5	12246.1
47.5°	9726.4	10282.8	11104.1	11852.4	11682.4	10615.7	9794.4	11670.2	12379.7	12192.6
50°	9692.4	10409.1	11794.1	12523.1	12421.0	10870.8	9668.1	11310.6	12173.2	12156.2
52.5°	9689.9	10669.1	12080.8	12887.5	12950.7	11274.1	9840.6	11492.8	12333.5	12476.9
55°	9799.3	10586.5	12044.4	12685.8	12661.5	11094.3	9860.0	11614.3	12530.3	12671.3
57.5°	9242.9	9483.4	9940.2	10448.0	10316.8	9189.4	8805.5	10737.2	11500.1	11398.1
60°	7981.8	7228.6	6713.5	6689.2	6434.0	6081.7	7206.7	9583.0	9583.0	9483.4
62.5°	6990.5	4745.3	4077.2	3887.6	4069.9	4475.6	6951.6	9320.6	9055.8	8941.6
65°	6113.3	3622.8	2947.3	2893.9	3209.7	3822.0	6285.8	7940.5	7474.0	7094.9
67.5°	3933.8	2653.3	2191.7	2096.9	2478.4	2806.4	4184.1	4883.8	4589.8	4441.6
70°	2536.7	1727.6	1219.7	1144.4	1292.6	1730.0	2672.8	2847.7	2420.1	2320.4
72.5°	1200.3	745.9	427.6	352.3	396.1	660.9	1057.0	1137.1	945.2	865.0
75°	381.5	274.6	174.9	150.6	143.4	170.1	243.0	187.1	136.1	133.6
77.5°	170.1	162.8	138.5	116.6	102.1	85.0	70.5	58.3	60.7	63.2
80°	140.9	128.8	114.2	102.1	85.0	65.6	51.0	38.9	38.9	41.3
82.5°	123.9	111.8	99.6	85.0	72.9	53.5	38.9	26.7	24.3	24.3
85°	53.5	63.2	68.0	72.9	58.3	43.7	26.7	17.0	14.6	14.6
87.5°	21.9	19.4	17.0	14.6	12.1	12.1	9.7	7.3	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)