

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: P529070

Luminaire Tested: **GALN-SA4B-722-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529070
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-722-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 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: 12324 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

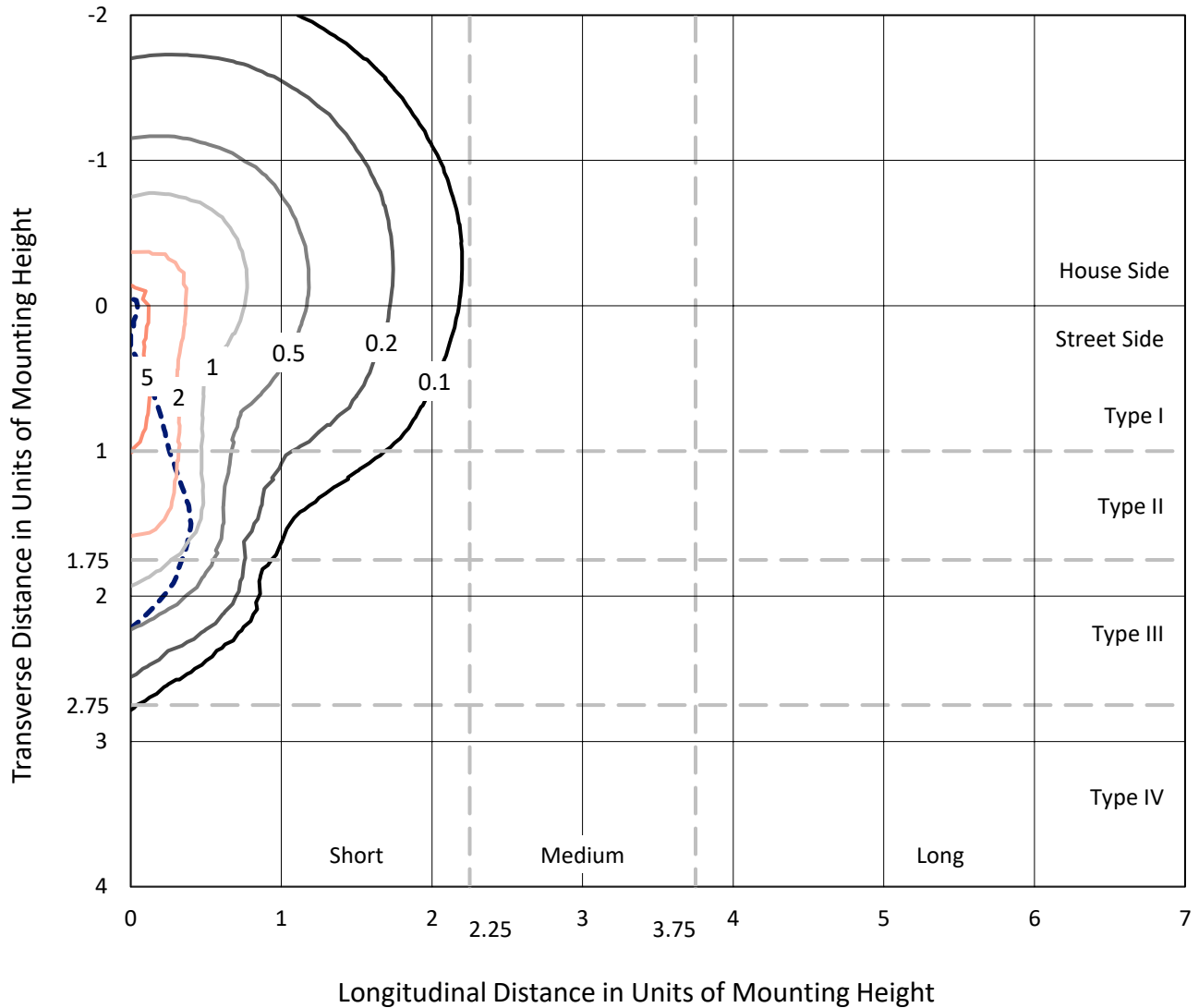
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

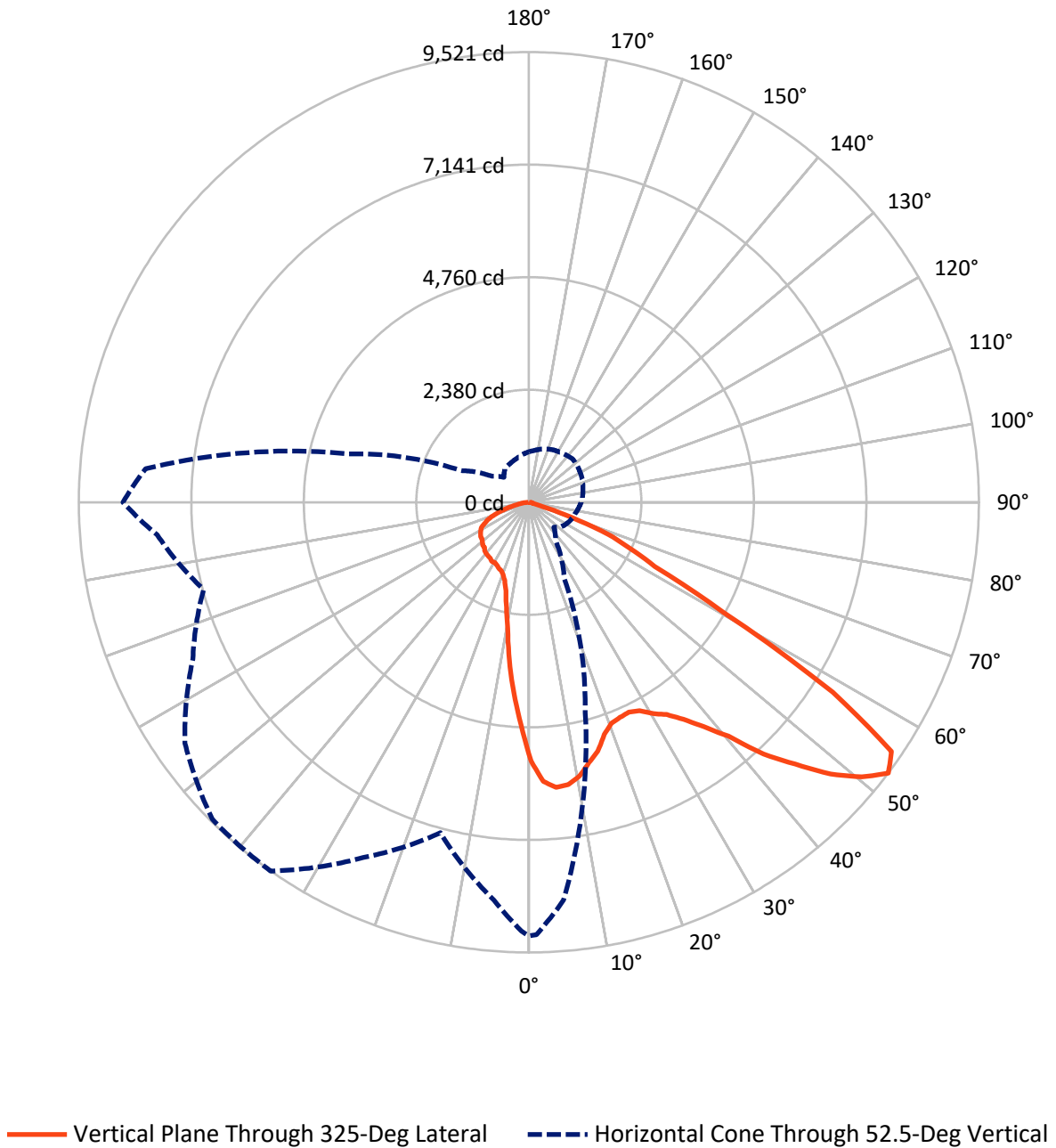
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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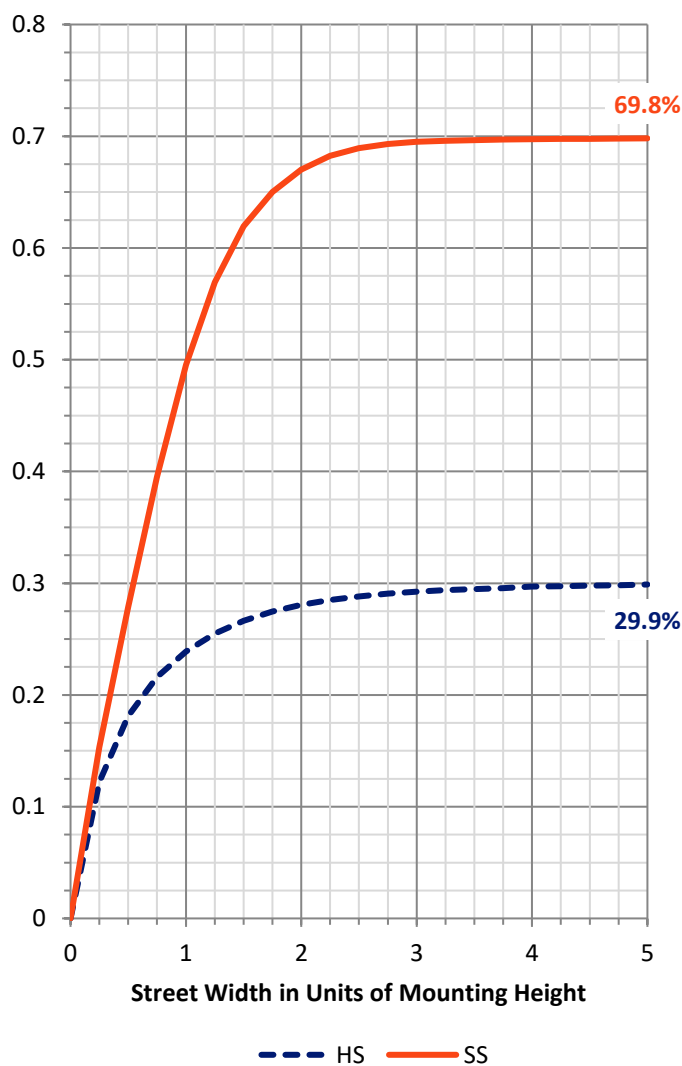
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3715.2	0.0	3715.2
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	8608.8	0.0	8608.8
	% Fixture	69.9	0.0	69.9
Total	Lumens	12324.0	0.0	12324.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.3	3.4
10°-20°	904.6	7.3
20°-30°	1366.8	11.1
30°-40°	1975.0	16.0
40°-50°	2628.4	21.3
50°-60°	2939.9	23.9
60°-70°	1656.9	13.4
70°-80°	369.4	3.0
80°-90°	65.8	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°	12324.0	100.0
0°-180°	12324.0	100.0

Coefficient of Utilization



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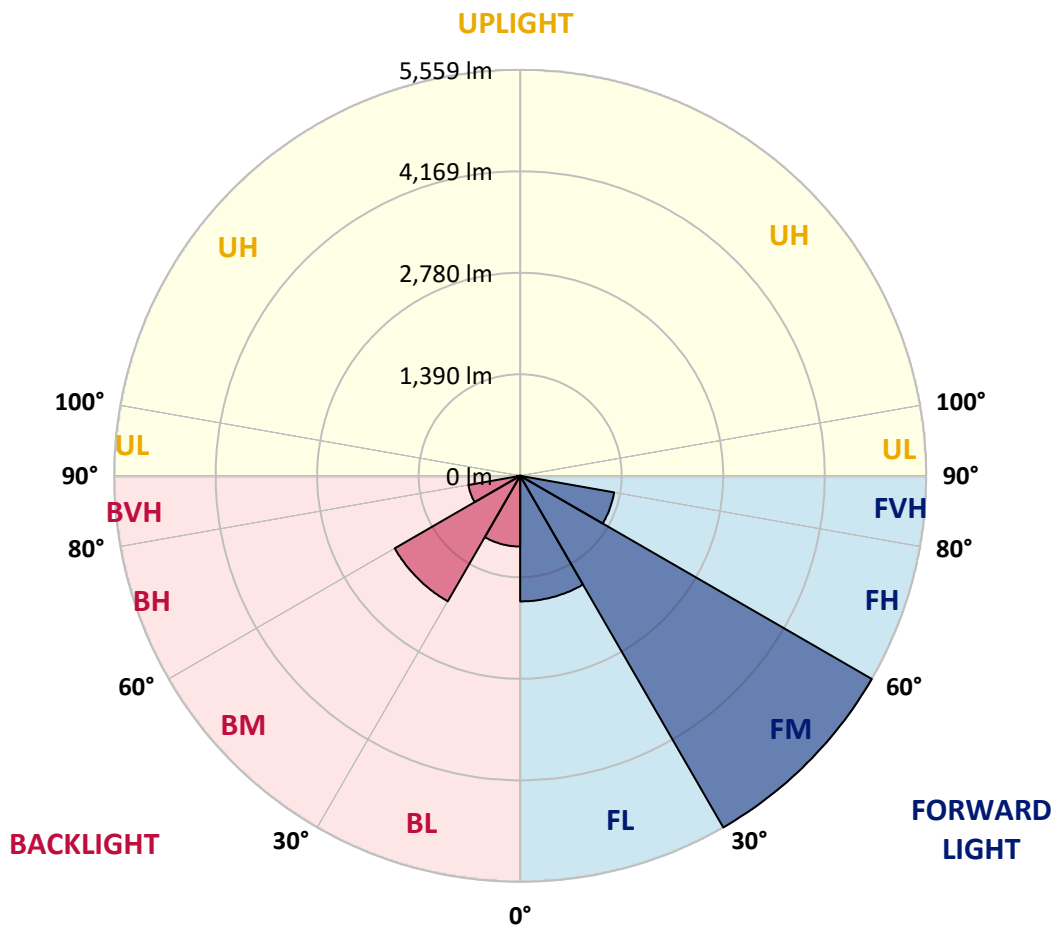
CATALOG NUMBER: GALN-SA4B-722-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1719.8	14.0			
FM (30°-60°)	5559.1	45.1			
FH (60°-80°)	1306.2	10.6			G1/1800
FVH (80°-90°)	23.8	0.2			G1/100
BL (0°-30°)	968.8	7.9	B2/1000		
BM (30°-60°)	1984.3	16.1	B2/2500		
BH (60°-80°)	720.1	5.8	B2/1000		G2/1000
BVH (80°-90°)	42.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5469.5	5469.5	5469.5	5469.5	5469.5	5469.5	5469.5	5469.5	5469.5	5469.5	5469.5
2.5°	5560.6	5649.9	5553.4	5381.9	5260.5	5149.7	5033.6	5010.4	4858.6	4831.8	4721.0
5°	5244.4	5224.8	5106.9	4881.8	4633.5	4408.4	4242.3	4081.6	3972.6	3845.8	3836.8
7.5°	4860.4	4746.0	4678.2	4337.0	4029.8	3676.1	3524.3	3279.5	3202.7	3088.4	3029.5
10°	4517.4	4433.4	4274.5	3933.3	3504.6	3270.6	3108.1	2975.9	2886.6	2768.7	2620.4
12.5°	4347.7	4313.8	4135.1	3606.4	3288.5	3038.4	2924.1	2795.5	2643.6	2454.3	2381.1
15°	4378.1	4263.8	4128.0	3543.9	3104.5	2863.3	2681.1	2520.4	2325.7	2145.3	2039.9
17.5°	4604.9	4517.4	4245.9	3583.2	3034.8	2686.5	2356.1	2118.5	1943.4	1780.9	1707.6
20°	5051.5	4924.7	4619.2	3633.2	2884.8	2440.0	2061.3	1768.4	1580.8	1495.1	1470.1
22.5°	5546.3	5471.3	4983.6	3745.7	2765.1	2211.4	1748.7	1455.8	1386.1	1362.9	1409.3
25°	6148.2	5953.5	5549.8	3929.7	2672.2	2016.7	1484.4	1321.8	1286.1	1309.3	1362.9
27.5°	6605.5	6553.7	5946.4	4103.0	2545.4	1782.7	1336.1	1228.9	1239.7	1262.9	1312.9
30°	7148.5	6886.0	6330.4	4222.7	2431.1	1621.9	1232.5	1203.9	1214.6	1253.9	1278.9
32.5°	7475.4	7377.2	6571.6	4403.1	2298.9	1482.6	1152.1	1125.3	1141.4	1200.4	1259.3
35°	7891.6	7696.9	6869.9	4449.5	2206.0	1427.2	1095.0	1075.3	1112.8	1153.9	1220.0
37.5°	8377.5	8243.5	7282.5	4417.4	2156.0	1370.0	1046.7	1037.8	1064.6	1121.8	1198.6
40°	8665.1	8624.0	7498.6	4437.0	2077.4	1320.0	991.4	1002.1	1057.5	1102.1	1177.1
42.5°	8941.9	8674.0	7818.4	4429.9	2027.4	1252.2	996.7	984.2	1027.1	1078.9	1150.3
45°	9002.6	8736.5	7893.4	4379.9	1966.7	1186.1	955.6	961.0	1012.8	1077.1	1123.5
47.5°	8963.4	8766.9	8032.7	4365.6	1909.5	1139.6	894.9	959.2	989.6	1041.4	1107.5
50°	8936.6	8925.8	8150.6	4433.4	1832.7	1066.4	821.7	936.0	966.4	1018.2	1089.6
52.5°	9172.3	9149.1	8445.3	4612.1	1772.0	987.8	746.6	877.0	950.3	1000.3	1070.0
55°	9315.2	9213.4	8950.8	4831.8	1670.1	884.2	694.8	803.8	911.0	955.6	1027.1
57.5°	8379.3	8309.6	8097.0	4510.3	1498.7	748.4	630.5	728.8	857.4	927.1	1000.3
60°	6971.7	6862.7	6317.9	3833.3	1105.7	582.3	591.2	669.8	843.1	869.9	955.6
62.5°	6573.4	6303.6	5562.4	3084.8	848.5	500.1	530.5	616.3	768.1	812.7	898.5
65°	5215.8	5015.8	3979.7	2227.4	568.0	434.1	484.1	555.5	662.7	750.2	828.8
67.5°	3265.2	3074.1	2123.8	1053.9	396.5	371.5	432.3	507.3	594.8	673.4	760.9
70°	1705.9	1496.9	980.6	380.5	273.3	303.7	360.8	432.3	518.0	582.3	650.2
72.5°	635.9	516.2	319.7	164.3	189.3	232.2	292.9	344.7	405.5	484.1	521.6
75°	98.2	84.0	82.2	100.0	128.6	167.9	209.0	260.8	314.4	364.4	389.4
77.5°	46.4	44.7	50.0	66.1	85.7	119.7	151.8	201.8	244.7	276.9	291.2
80°	30.4	28.6	32.2	44.7	64.3	89.3	121.5	155.4	194.7	221.5	217.9
82.5°	17.9	19.6	19.6	30.4	44.7	64.3	87.5	117.9	144.7	167.9	153.6
85°	10.7	8.9	8.9	17.9	30.4	51.8	73.2	50.0	51.8	51.8	58.9
87.5°	3.6	3.6	3.6	1.8	3.6	3.6	5.4	8.9	10.7	12.5	16.1
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°	5469.5	5469.5	5469.5	5469.5	5469.5	5469.5	5469.5	5469.5	5469.5	5469.5	5469.5
2.5°	4717.5	4772.8	4753.2	4683.5	4737.1	4746.0	4710.3	4833.6	4856.8	4819.3	4830.0
5°	3824.3	3838.6	3870.8	3938.7	3986.9	4044.0	4044.0	4047.6	3999.4	4120.9	4085.1
7.5°	2979.4	2988.4	3025.9	3170.6	3211.7	3320.6	3367.1	3334.9	3238.5	3197.4	3231.3
10°	2572.2	2520.4	2507.9	2525.7	2618.6	2665.1	2704.4	2693.6	2677.6	2645.4	2609.7
12.5°	2300.7	2263.2	2232.8	2189.9	2195.3	2239.9	2270.3	2245.3	2252.4	2259.6	2270.3
15°	2005.9	1979.2	1963.1	1898.8	1891.6	1922.0	1932.7	1947.0	1973.8	1975.6	1963.1
17.5°	1693.4	1670.1	1705.9	1741.6	1716.6	1718.4	1738.0	1750.5	1743.4	1711.2	1695.1
20°	1479.0	1504.0	1539.7	1573.7	1600.5	1616.5	1623.7	1604.0	1580.8	1514.7	1512.9
22.5°	1416.5	1448.6	1479.0	1530.8	1555.8	1596.9	1559.4	1514.7	1482.6	1450.4	1412.9
25°	1370.0	1396.8	1457.6	1477.2	1525.4	1559.4	1532.6	1487.9	1432.6	1386.1	1357.5
27.5°	1336.1	1366.5	1405.8	1459.4	1496.9	1516.5	1489.7	1471.9	1414.7	1359.3	1318.2
30°	1314.7	1346.8	1418.3	1462.9	1495.1	1511.2	1464.7	1443.3	1402.2	1355.8	1320.0
32.5°	1300.4	1329.0	1389.7	1446.9	1468.3	1468.3	1475.4	1450.4	1393.3	1314.7	1284.3
35°	1253.9	1293.2	1343.3	1409.3	1448.6	1471.9	1436.1	1407.6	1370.0	1289.7	1234.3
37.5°	1227.1	1253.9	1318.2	1380.8	1414.7	1439.7	1425.4	1375.4	1325.4	1259.3	1214.6
40°	1198.6	1241.4	1298.6	1357.5	1395.1	1420.1	1409.3	1350.4	1289.7	1227.1	1196.8
42.5°	1178.9	1207.5	1266.4	1332.5	1377.2	1425.4	1393.3	1320.0	1277.2	1191.4	1157.5
45°	1162.8	1209.3	1271.8	1298.6	1345.0	1395.1	1337.9	1293.2	1243.2	1180.7	1152.1
47.5°	1143.2	1186.1	1227.1	1298.6	1320.0	1343.3	1332.5	1261.1	1218.2	1150.3	1130.7
50°	1136.0	1152.1	1227.1	1266.4	1296.8	1320.0	1291.5	1237.9	1196.8	1127.1	1084.2
52.5°	1107.5	1137.8	1186.1	1237.9	1275.4	1304.0	1257.5	1223.6	1168.2	1095.0	1068.2
55°	1071.7	1089.6	1175.3	1228.9	1248.6	1268.2	1250.4	1195.0	1137.8	1062.8	1036.0
57.5°	1025.3	1066.4	1136.0	1211.1	1236.1	1246.8	1218.2	1173.6	1102.1	1036.0	993.1
60°	977.1	1019.9	1096.8	1157.5	1182.5	1221.8	1178.9	1152.1	1070.0	996.7	950.3
62.5°	928.8	977.1	1034.2	1111.0	1132.5	1148.6	1137.8	1100.3	1034.2	952.1	894.9
65°	871.7	907.4	978.9	1018.2	1032.4	1070.0	1032.4	1018.2	959.2	880.6	832.4
67.5°	785.9	816.3	878.8	916.3	927.1	943.1	941.3	925.3	859.2	805.6	762.7
70°	687.7	714.5	753.8	798.4	803.8	823.5	805.6	802.0	759.2	685.9	662.7
72.5°	551.9	577.0	628.8	648.4	650.2	657.3	648.4	635.9	625.2	548.4	525.2
75°	423.3	437.6	462.6	480.5	480.5	489.4	484.1	471.6	443.0	394.8	371.5
77.5°	294.7	309.0	341.2	351.9	350.1	353.7	337.6	325.1	282.2	257.2	237.6
80°	214.3	223.3	239.4	246.5	248.3	253.6	234.0	223.3	198.3	169.7	160.8
82.5°	155.4	160.8	162.5	171.5	171.5	162.5	157.2	146.5	128.6	110.7	103.6
85°	64.3	66.1	67.9	78.6	80.4	96.5	89.3	84.0	73.2	62.5	57.2
87.5°	16.1	17.9	23.2	19.6	23.2	23.2	25.0	28.6	28.6	23.2	23.2
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°	5469.5	5469.5	5469.5	5469.5	5469.5	5469.5	5469.5	5469.5	5469.5	5469.5	5469.5
2.5°	4871.1	4885.4	5067.6	5090.8	5180.1	5271.2	5455.2	5587.4	5694.5	5764.2	5783.8
5°	4122.6	4213.7	4297.7	4433.4	4556.7	4731.7	4933.6	5183.7	5498.0	5658.8	5723.1
7.5°	3227.7	3334.9	3456.4	3588.6	3769.0	4083.3	4353.1	4642.4	5044.3	5210.5	5462.3
10°	2634.7	2754.4	2915.1	3017.0	3234.9	3535.0	3849.3	4183.4	4567.4	4806.8	5097.9
12.5°	2329.3	2427.5	2575.8	2790.1	2952.7	3147.4	3381.4	3802.9	4353.1	4579.9	4780.0
15°	1991.7	2100.6	2272.1	2509.7	2704.4	2936.6	3199.2	3658.2	4244.1	4594.2	4763.9
17.5°	1713.0	1791.6	1972.0	2177.4	2400.7	2654.4	3031.2	3651.1	4358.4	4806.8	5083.6
20°	1520.1	1530.8	1629.1	1804.1	2107.8	2438.2	2927.6	3615.3	4724.6	5173.0	5523.1
22.5°	1398.6	1387.9	1389.7	1538.0	1750.5	2225.7	2765.1	3736.8	5140.8	5755.3	5991.0
25°	1337.9	1309.3	1291.5	1323.6	1516.5	1973.8	2641.8	3897.6	5589.1	6235.8	6525.1
27.5°	1305.7	1255.7	1220.0	1225.4	1366.5	1847.0	2565.0	3967.2	6033.9	6905.6	7007.4
30°	1293.2	1230.7	1178.9	1161.1	1253.9	1670.1	2400.7	4086.9	6432.3	7273.6	7361.1
32.5°	1248.6	1171.8	1121.8	1105.7	1143.2	1514.7	2282.8	4172.7	6784.1	7673.7	7643.3
35°	1196.8	1132.5	1070.0	1039.6	1066.4	1414.7	2188.1	4131.6	7198.5	7984.5	7968.4
37.5°	1191.4	1107.5	1055.7	1005.7	1003.9	1291.5	2059.5	4170.9	7462.9	8541.8	8322.1
40°	1145.0	1091.4	1023.5	982.4	959.2	1228.9	1934.5	4078.0	7850.5	8766.9	8550.7
42.5°	1146.8	1066.4	1007.4	959.2	936.0	1137.8	1848.8	4053.0	7986.3	9133.0	8657.9
45°	1118.2	1039.6	989.6	932.4	919.9	1068.2	1766.6	3936.9	8225.6	9150.9	8523.9
47.5°	1089.6	1019.9	966.4	898.5	869.9	1043.2	1702.3	3840.4	8100.6	8983.0	8338.2
50°	1070.0	989.6	939.6	891.3	811.0	1000.3	1618.3	3817.2	7925.5	8756.1	7993.4
52.5°	1036.0	964.6	912.8	875.3	746.6	961.0	1586.2	3952.9	8139.9	8586.5	7893.4
55°	1003.9	930.6	864.5	791.3	693.1	857.4	1496.9	4079.8	8452.5	8977.6	8347.1
57.5°	969.9	900.3	828.8	741.3	641.3	750.2	1404.0	4103.0	7866.6	8297.1	7923.8
60°	925.3	836.0	782.4	668.1	585.9	621.6	1112.8	3617.1	6101.8	6928.8	6941.3
62.5°	875.3	778.8	732.4	598.4	528.7	535.9	907.4	3040.2	4949.7	5735.6	6076.8
65°	809.2	716.3	660.9	553.7	487.6	464.4	664.5	2227.4	3760.0	4653.2	5040.8
67.5°	723.4	635.9	566.2	482.3	435.8	398.3	453.7	1253.9	2220.3	3124.1	3242.0
70°	632.3	557.3	484.1	414.4	362.6	335.8	332.2	555.5	1061.0	1680.9	1913.1
72.5°	498.4	444.8	385.8	334.0	300.1	260.8	237.6	230.4	359.0	684.1	944.9
75°	357.2	312.6	278.7	244.7	219.7	198.3	180.4	164.3	150.0	171.5	235.8
77.5°	225.1	209.0	182.2	173.3	159.0	153.6	146.5	137.5	126.8	119.7	119.7
80°	151.8	141.1	132.2	130.4	125.0	123.3	125.0	116.1	105.4	96.5	100.0
82.5°	101.8	100.0	98.2	96.5	98.2	100.0	103.6	101.8	92.9	87.5	89.3
85°	60.7	64.3	67.9	71.4	78.6	69.7	57.2	48.2	42.9	39.3	37.5
87.5°	23.2	32.2	28.6	26.8	28.6	26.8	25.0	23.2	19.6	17.9	17.9
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: P529070

CATALOG NUMBER: GALN-SA4B-722-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5469.5	5469.5	5469.5	5469.5	5469.5	5469.5	5469.5	5469.5	5469.5	5469.5
2.5°	5914.2	5950.0	5980.3	5973.2	5910.7	5826.7	5792.8	5619.5	5583.8	5560.6
5°	5994.6	6201.8	6246.5	6219.7	6057.1	5851.7	5651.7	5398.0	5249.8	5244.4
7.5°	5846.4	6101.8	6182.2	6242.9	6026.8	5669.5	5326.6	4946.1	4853.2	4860.4
10°	5469.5	5876.7	6075.0	6137.5	5889.2	5580.2	5105.1	4719.2	4521.0	4517.4
12.5°	5260.5	5580.2	5635.6	5723.1	5649.9	5337.3	4976.5	4544.2	4351.3	4347.7
15°	5074.7	5285.5	5301.6	5424.8	5464.1	5253.3	5010.4	4549.6	4394.2	4378.1
17.5°	5237.3	5090.8	5030.1	5046.1	5162.2	5239.0	5206.9	4853.2	4694.2	4604.9
20°	5346.2	5019.3	4835.4	4853.2	4990.8	5271.2	5499.8	5292.6	5040.8	5051.5
22.5°	5637.4	5030.1	4742.5	4722.8	4940.7	5439.1	5830.3	5848.1	5605.2	5546.3
25°	6073.2	5153.3	4713.9	4708.5	4917.5	5619.5	6216.1	6505.5	6257.2	6148.2
27.5°	6423.3	5346.2	4803.2	4821.1	4990.8	5766.0	6544.8	6928.8	6739.5	6605.5
30°	6730.6	5546.3	4928.2	4846.1	5187.2	5842.8	6685.9	7411.1	7259.3	7148.5
32.5°	6857.4	5830.3	5126.5	4990.8	5349.8	5935.7	6978.8	7879.1	7748.7	7475.4
35°	7071.7	5989.3	5233.7	5223.0	5633.8	6159.0	7116.4	8188.1	8134.5	7891.6
37.5°	7243.2	6150.0	5614.2	5496.3	6023.2	6534.1	7337.9	8615.0	8491.8	8377.5
40°	7375.4	6437.6	5969.6	6125.0	6501.9	6875.2	7541.5	8641.8	8997.3	8665.1
42.5°	7253.9	6694.8	6553.7	6925.3	7282.5	7264.6	7564.7	8849.0	9115.2	8941.9
45°	7223.6	7130.7	7477.2	7814.8	7897.0	7587.9	7398.6	8620.4	9079.5	9002.6
47.5°	7150.3	7559.4	8163.1	8713.3	8588.2	7804.1	7200.3	8579.3	9100.9	8963.4
50°	7125.3	7652.3	8670.4	9206.3	9131.3	7991.6	7107.4	8314.9	8949.1	8936.6
52.5°	7123.5	7843.4	8881.2	9474.2	9520.7	8288.2	7234.3	8448.9	9067.0	9172.3
55°	7203.9	7782.6	8854.4	9326.0	9308.1	8156.0	7248.6	8538.2	9211.6	9315.2
57.5°	6794.9	6971.7	7307.5	7680.8	7584.4	6755.6	6473.3	7893.4	8454.3	8379.3
60°	5867.8	5314.1	4935.4	4917.5	4730.0	4471.0	5298.0	7044.9	7044.9	6971.7
62.5°	5139.0	3488.5	2997.3	2858.0	2992.0	3290.3	5110.4	6852.0	6657.3	6573.4
65°	4494.2	2663.3	2166.7	2127.4	2359.6	2809.8	4621.0	5837.4	5494.5	5215.8
67.5°	2891.9	1950.6	1611.2	1541.5	1822.0	2063.1	3075.9	3590.3	3374.2	3265.2
70°	1864.8	1270.0	896.7	841.3	950.3	1271.8	1964.9	2093.5	1779.1	1705.9
72.5°	882.4	548.4	314.4	259.0	291.2	485.9	777.0	836.0	694.8	635.9
75°	280.4	201.8	128.6	110.7	105.4	125.0	178.6	137.5	100.0	98.2
77.5°	125.0	119.7	101.8	85.7	75.0	62.5	51.8	42.9	44.7	46.4
80°	103.6	94.7	84.0	75.0	62.5	48.2	37.5	28.6	28.6	30.4
82.5°	91.1	82.2	73.2	62.5	53.6	39.3	28.6	19.6	17.9	17.9
85°	39.3	46.4	50.0	53.6	42.9	32.2	19.6	12.5	10.7	10.7
87.5°	16.1	14.3	12.5	10.7	8.9	8.9	7.1	5.4	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)