

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: P647889

Luminaire Tested: **GALN-SA4A-835-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647889
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-SA4A-835-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 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: 10549.4 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

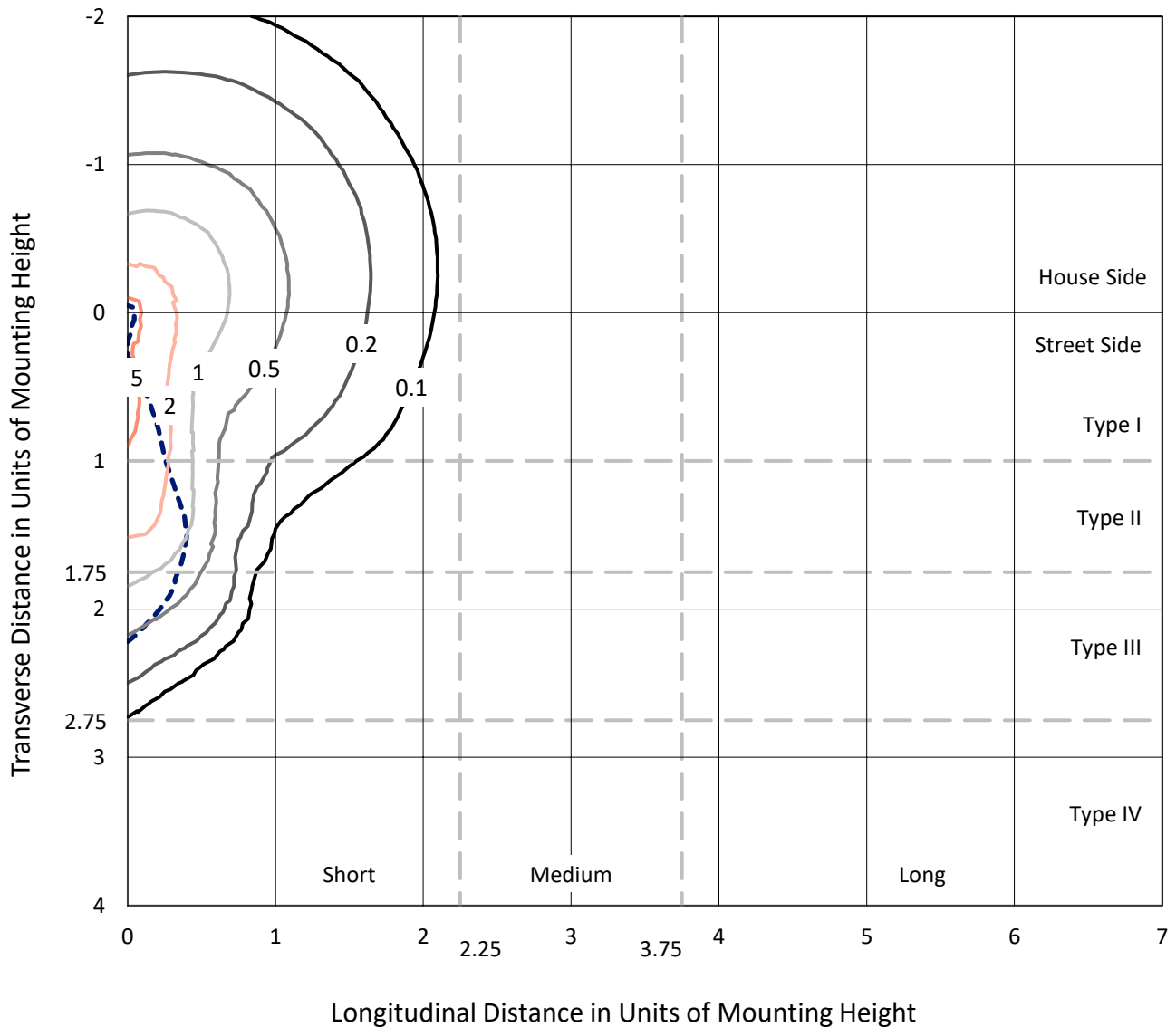
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

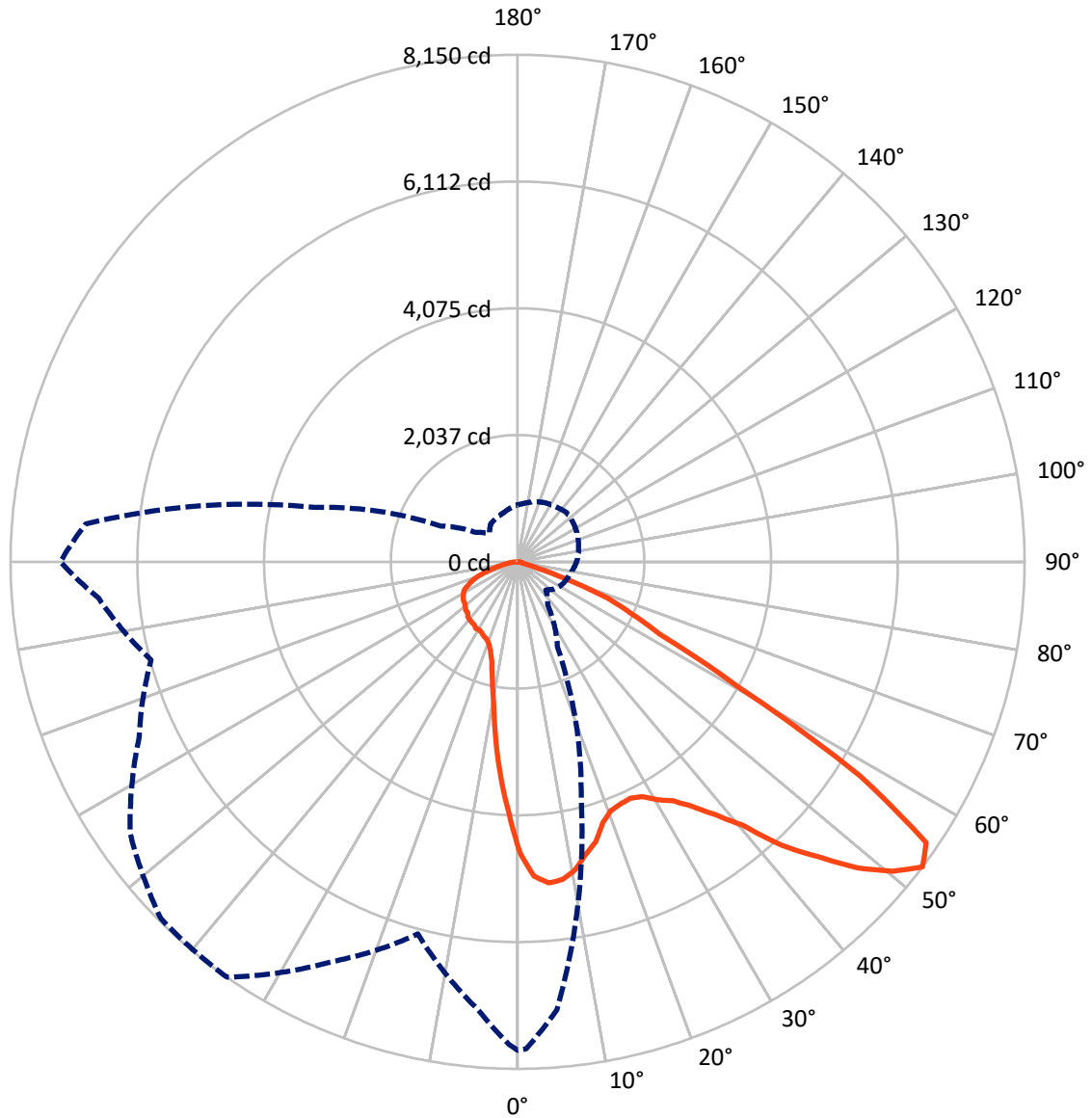
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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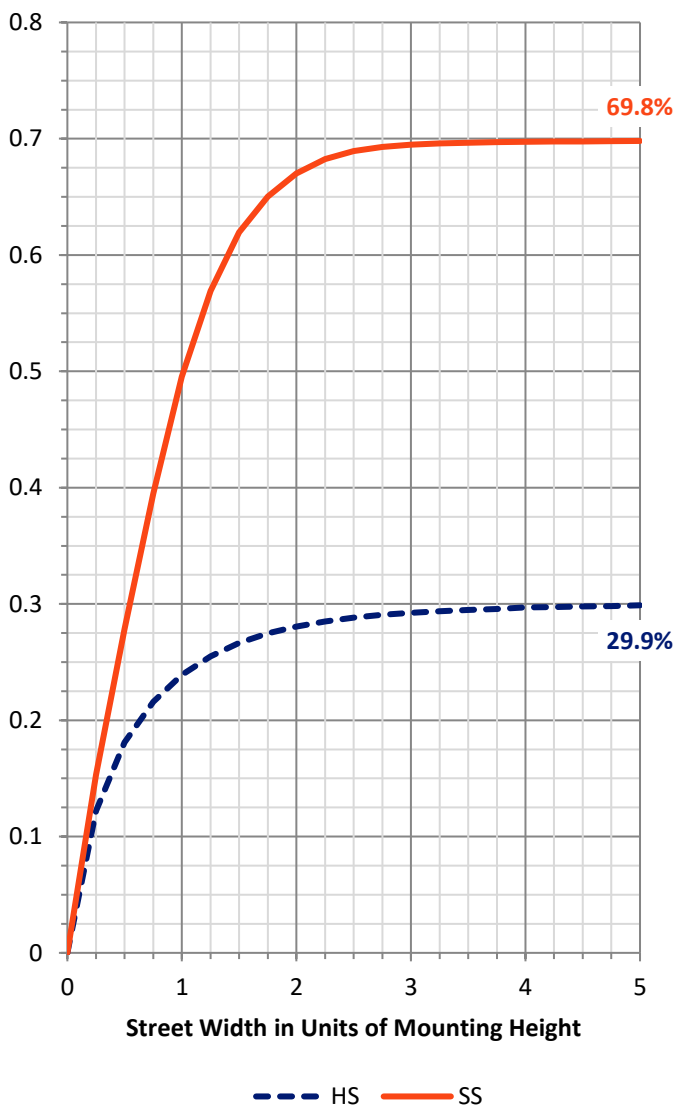
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3180.2	0.0	3180.2
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	7369.2	0.0	7369.2
	% Fixture	69.9	0.0	69.9
Total	Lumens	10549.4	0.0	10549.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.2	3.4
10°-20°	774.3	7.3
20°-30°	1169.9	11.1
30°-40°	1690.6	16.0
40°-50°	2249.9	21.3
50°-60°	2516.6	23.9
60°-70°	1418.3	13.4
70°-80°	316.2	3.0
80°-90°	56.3	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°	10549.4	100.0
0°-180°	10549.4	100.0

Coefficient of Utilization



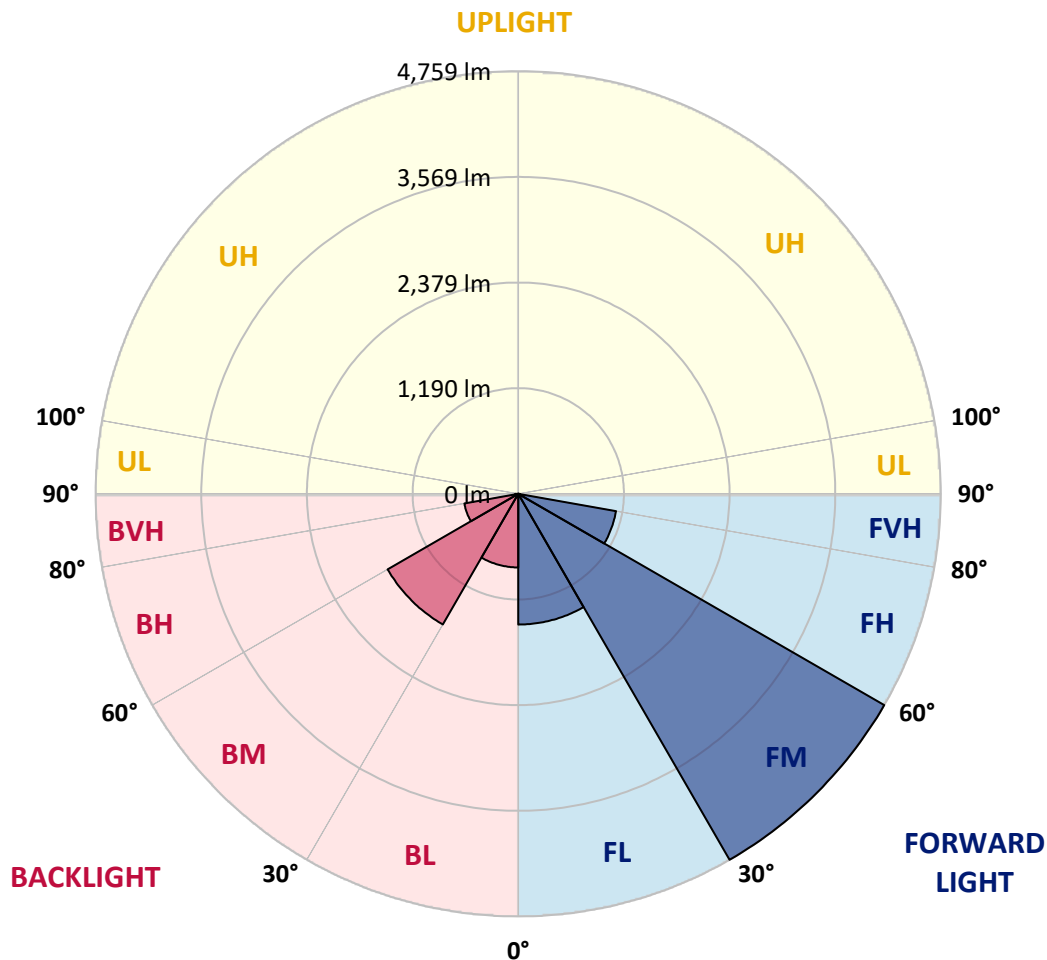
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1472.1	14.0			
FM (30°-60°)	4758.6	45.1			
FH (60°-80°)	1118.1	10.6			G1/1800
FVH (80°-90°)	20.4	0.2			G1/100
BL (0°-30°)	829.3	7.9	B2/1000		
BM (30°-60°)	1698.5	16.1	B2/2500		
BH (60°-80°)	616.4	5.8	B2/1000		G2/1000
BVH (80°-90°)	35.9	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°	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9
2.5°	4759.9	4836.3	4753.7	4606.9	4503.0	4408.2	4308.8	4288.9	4159.0	4136.0	4041.2
5°	4489.3	4472.4	4371.5	4178.8	3966.3	3773.7	3631.4	3493.8	3400.6	3292.0	3284.4
7.5°	4160.5	4062.6	4004.5	3712.4	3449.5	3146.7	3016.7	2807.3	2741.5	2643.6	2593.2
10°	3866.9	3795.0	3659.0	3366.9	2999.9	2799.6	2660.5	2547.3	2470.9	2370.0	2243.1
12.5°	3721.7	3692.6	3539.7	3087.1	2815.0	2600.9	2503.0	2392.9	2262.9	2100.9	2038.2
15°	3747.7	3649.8	3533.6	3033.6	2657.4	2451.0	2295.1	2157.5	1990.8	1836.4	1746.2
17.5°	3941.9	3866.9	3634.5	3067.2	2597.8	2299.7	2016.8	1813.4	1663.6	1524.4	1461.8
20°	4324.1	4215.5	3954.1	3110.0	2469.3	2088.7	1764.5	1513.7	1353.2	1279.8	1258.4
22.5°	4747.6	4683.4	4265.9	3206.4	2366.9	1892.9	1496.9	1246.1	1186.6	1166.7	1206.4
25°	5262.9	5096.2	4750.7	3363.8	2287.5	1726.3	1270.7	1131.5	1100.9	1120.8	1166.7
27.5°	5654.4	5610.0	5090.1	3512.1	2178.9	1526.0	1143.7	1052.0	1061.1	1081.0	1123.8
30°	6119.1	5894.4	5418.8	3614.6	2081.0	1388.3	1055.0	1030.6	1039.7	1073.3	1094.8
32.5°	6399.0	6314.9	5625.3	3769.0	1967.8	1269.1	986.2	963.2	977.0	1027.5	1078.0
35°	6755.3	6588.6	5880.6	3808.8	1888.4	1221.7	937.3	920.5	952.6	987.8	1044.3
37.5°	7171.1	7056.5	6233.9	3781.3	1845.5	1172.8	896.0	888.4	911.3	960.2	1026.0
40°	7417.3	7382.1	6418.9	3798.1	1778.3	1129.9	848.6	857.8	905.1	943.4	1007.6
42.5°	7654.3	7425.0	6692.5	3792.0	1735.4	1071.8	853.2	842.5	879.2	923.5	984.7
45°	7706.3	7478.4	6756.7	3749.2	1683.4	1015.2	818.0	822.6	866.9	922.0	961.8
47.5°	7672.6	7504.4	6876.0	3736.9	1634.5	975.5	766.0	821.1	847.0	891.4	948.0
50°	7649.7	7640.5	6976.9	3795.0	1568.7	912.8	703.4	801.2	827.2	871.6	932.7
52.5°	7851.5	7831.6	7229.2	3948.0	1516.8	845.6	639.2	750.7	813.5	856.3	915.9
55°	7973.8	7886.7	7662.0	4136.0	1429.6	756.8	594.8	688.0	779.8	818.0	879.2
57.5°	7172.7	7113.0	6931.0	3860.8	1282.9	640.7	539.7	623.8	733.9	793.6	856.3
60°	5967.8	5874.5	5408.2	3281.3	946.5	498.5	506.1	573.4	721.7	744.6	818.0
62.5°	5626.8	5395.9	4761.3	2640.6	726.3	428.1	454.1	527.5	657.5	695.7	769.1
65°	4464.7	4293.5	3406.7	1906.7	486.2	371.5	414.4	475.5	567.3	642.2	709.5
67.5°	2795.1	2631.4	1818.0	902.1	339.4	318.1	370.0	434.3	509.2	576.4	651.4
70°	1460.2	1281.3	839.5	325.6	234.0	260.0	308.9	370.0	443.4	498.5	556.6
72.5°	544.3	441.9	273.7	140.7	162.1	198.8	250.8	295.1	347.1	414.4	446.5
75°	84.1	71.9	70.3	85.7	110.1	143.8	178.9	223.2	269.1	311.9	333.3
77.5°	39.8	38.2	42.8	56.6	73.4	102.4	130.0	172.8	209.5	237.0	249.2
80°	26.0	24.4	27.5	38.2	55.0	76.4	104.0	133.0	166.7	189.6	186.5
82.5°	15.3	16.8	16.8	26.0	38.2	55.0	74.9	100.9	123.9	143.8	131.5
85°	9.2	7.7	7.7	15.3	26.0	44.3	62.7	42.8	44.3	44.3	50.4
87.5°	3.1	3.1	3.1	1.6	3.1	3.1	4.6	7.7	9.2	10.7	13.8
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°	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9
2.5°	4038.2	4085.5	4068.7	4009.1	4055.0	4062.6	4032.1	4137.5	4157.4	4125.3	4134.5
5°	3273.6	3285.9	3313.4	3371.5	3412.8	3461.7	3461.7	3464.8	3423.5	3527.5	3496.9
7.5°	2550.4	2558.1	2590.2	2714.0	2749.2	2842.4	2882.2	2854.7	2772.1	2737.0	2766.0
10°	2201.8	2157.5	2146.8	2162.0	2241.6	2281.3	2314.9	2305.8	2292.0	2264.5	2233.9
12.5°	1969.4	1937.3	1911.3	1874.6	1879.2	1917.4	1943.4	1922.0	1928.1	1934.2	1943.4
15°	1717.1	1694.2	1680.4	1625.4	1619.2	1645.2	1654.4	1666.6	1689.6	1691.1	1680.4
17.5°	1449.5	1429.6	1460.2	1490.8	1469.4	1470.9	1487.8	1498.4	1492.3	1464.8	1451.1
20°	1266.0	1287.4	1318.0	1347.1	1370.0	1383.8	1389.9	1373.1	1353.2	1296.6	1295.1
22.5°	1212.6	1240.0	1266.0	1310.4	1331.8	1367.0	1334.9	1296.6	1269.1	1241.6	1209.4
25°	1172.8	1195.7	1247.7	1264.5	1305.8	1334.9	1311.9	1273.7	1226.3	1186.6	1162.1
27.5°	1143.7	1169.7	1203.3	1249.2	1281.3	1298.1	1275.2	1259.9	1211.0	1163.6	1128.4
30°	1125.3	1152.9	1214.0	1252.3	1279.8	1293.5	1253.8	1235.4	1200.3	1160.6	1129.9
32.5°	1113.1	1137.6	1189.6	1238.5	1256.9	1256.9	1263.0	1241.6	1192.7	1125.3	1099.3
35°	1073.3	1107.0	1149.8	1206.4	1240.0	1259.9	1229.3	1204.9	1172.8	1104.0	1056.6
37.5°	1050.5	1073.3	1128.4	1181.9	1211.0	1232.4	1220.1	1177.3	1134.6	1078.0	1039.7
40°	1026.0	1062.7	1111.6	1162.1	1194.2	1215.6	1206.4	1155.9	1104.0	1050.5	1024.5
42.5°	1009.1	1033.6	1084.1	1140.7	1178.9	1220.1	1192.7	1129.9	1093.2	1019.9	990.8
45°	995.4	1035.1	1088.7	1111.6	1151.3	1194.2	1145.2	1107.0	1064.2	1010.7	986.2
47.5°	978.6	1015.2	1050.5	1111.6	1129.9	1149.8	1140.7	1079.5	1042.8	984.7	967.9
50°	972.5	986.2	1050.5	1084.1	1110.1	1129.9	1105.5	1059.6	1024.5	964.8	928.1
52.5°	948.0	974.0	1015.2	1059.6	1091.7	1116.2	1076.5	1047.4	1000.0	937.3	914.4
55°	917.4	932.7	1006.1	1052.0	1068.8	1085.6	1070.3	1022.9	974.0	909.8	886.8
57.5°	877.7	912.8	972.5	1036.7	1058.1	1067.2	1042.8	1004.6	943.4	886.8	850.1
60°	836.4	873.0	938.8	990.8	1012.2	1045.9	1009.1	986.2	915.9	853.2	813.5
62.5°	795.1	836.4	885.3	951.0	969.4	983.1	974.0	941.9	885.3	814.9	766.0
65°	746.2	776.7	837.9	871.6	883.8	915.9	883.8	871.6	821.1	753.8	712.5
67.5°	672.8	698.7	752.3	784.4	793.6	807.4	805.8	792.0	735.5	689.6	652.9
70°	588.7	611.6	645.3	683.5	688.0	704.9	689.6	686.5	649.8	587.2	567.3
72.5°	472.5	493.8	538.2	555.1	556.6	562.7	555.1	544.3	535.2	469.4	449.5
75°	362.4	374.6	396.0	411.3	411.3	419.0	414.4	403.6	379.2	337.9	318.1
77.5°	252.3	264.5	292.1	301.2	299.7	302.7	289.0	278.3	241.6	220.2	203.3
80°	183.5	191.1	204.9	211.0	212.5	217.1	200.3	191.1	169.8	145.2	137.6
82.5°	133.0	137.6	139.1	146.8	146.8	139.1	134.5	125.4	110.1	94.8	88.7
85°	55.0	56.6	58.1	67.3	68.8	82.5	76.4	71.9	62.7	53.5	48.9
87.5°	13.8	15.3	19.9	16.8	19.9	19.9	21.4	24.4	24.4	19.9	19.9
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°	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9
2.5°	4169.6	4181.8	4337.8	4357.7	4434.2	4512.1	4669.7	4782.8	4874.5	4934.2	4951.0
5°	3529.0	3607.0	3678.8	3795.0	3900.5	4050.4	4223.2	4437.3	4706.3	4844.0	4899.0
7.5°	2763.0	2854.7	2958.6	3071.8	3226.3	3495.3	3726.2	3974.0	4317.9	4460.1	4675.8
10°	2255.3	2357.8	2495.3	2582.5	2769.1	3025.9	3295.0	3581.0	3909.7	4114.6	4363.8
12.5°	1993.8	2077.9	2204.8	2388.3	2527.4	2694.1	2894.4	3255.3	3726.2	3920.4	4091.6
15°	1704.8	1798.2	1944.9	2148.3	2314.9	2513.7	2738.5	3131.5	3633.0	3932.6	4077.9
17.5°	1466.3	1533.6	1688.1	1863.9	2055.0	2272.1	2594.8	3125.3	3730.8	4114.6	4351.6
20°	1301.2	1310.4	1394.4	1544.3	1804.3	2087.1	2506.1	3094.7	4044.3	4428.0	4727.8
22.5°	1197.2	1188.0	1189.6	1316.5	1498.4	1905.2	2366.9	3198.7	4400.5	4926.5	5128.3
25°	1145.2	1120.8	1105.5	1133.0	1298.1	1689.6	2261.5	3336.4	4784.3	5337.8	5585.5
27.5°	1117.7	1074.9	1044.3	1048.9	1169.7	1581.0	2195.7	3395.9	5165.1	5911.2	5998.3
30°	1107.0	1053.5	1009.1	993.9	1073.3	1429.6	2055.0	3498.4	5506.0	6226.2	6301.1
32.5°	1068.8	1003.0	960.2	946.5	978.6	1296.6	1954.1	3571.8	5807.2	6568.7	6542.7
35°	1024.5	969.4	915.9	889.9	912.8	1211.0	1873.1	3536.7	6162.0	6834.7	6820.9
37.5°	1019.9	948.0	903.7	860.8	859.3	1105.5	1763.0	3570.2	6388.3	7311.8	7123.7
40°	980.1	934.2	876.1	840.9	821.1	1052.0	1656.0	3490.8	6720.1	7504.4	7319.4
42.5°	981.6	912.8	862.4	821.1	801.2	974.0	1582.5	3469.3	6836.3	7817.9	7411.2
45°	957.1	889.9	847.0	798.1	787.5	914.4	1512.2	3370.0	7041.1	7833.2	7296.5
47.5°	932.7	873.0	827.2	769.1	744.6	892.9	1457.2	3287.4	6934.1	7689.5	7137.5
50°	915.9	847.0	804.3	763.0	694.2	856.3	1385.3	3267.5	6784.3	7495.3	6842.4
52.5°	886.8	825.7	781.4	749.3	639.2	822.6	1357.8	3383.7	6967.8	7350.0	6756.7
55°	859.3	796.6	740.0	677.4	593.3	733.9	1281.3	3492.3	7235.3	7684.9	7145.1
57.5°	830.3	770.6	709.5	634.5	548.9	642.2	1201.8	3512.1	6733.8	7102.3	6782.7
60°	792.0	715.6	669.7	571.8	501.5	532.1	952.6	3096.3	5223.2	5931.1	5941.8
62.5°	749.3	666.6	626.9	512.2	452.6	458.7	776.7	2602.4	4236.9	4909.7	5201.7
65°	692.6	613.2	565.7	474.0	417.4	397.5	568.8	1906.7	3218.6	3983.1	4314.9
67.5°	619.3	544.3	484.7	412.8	373.1	341.0	388.4	1073.3	1900.6	2674.3	2775.2
70°	541.3	477.1	414.4	354.7	310.4	287.4	284.4	475.5	908.2	1438.8	1637.6
72.5°	426.6	380.7	330.3	286.0	256.9	223.2	203.3	197.2	307.3	585.6	808.8
75°	305.8	267.6	238.5	209.5	188.1	169.8	154.4	140.7	128.4	146.8	201.9
77.5°	192.6	178.9	156.0	148.3	136.1	131.5	125.4	117.8	108.5	102.4	102.4
80°	130.0	120.8	113.1	111.7	107.0	105.5	107.0	99.4	90.2	82.5	85.7
82.5°	87.1	85.7	84.1	82.5	84.1	85.7	88.7	87.1	79.5	74.9	76.4
85°	52.0	55.0	58.1	61.2	67.3	59.7	48.9	41.3	36.7	33.7	32.1
87.5°	19.9	27.5	24.4	22.9	24.4	22.9	21.4	19.9	16.8	15.3	15.3
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: P647889

CATALOG NUMBER: GALN-SA4A-835-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9
2.5°	5062.6	5093.2	5119.2	5113.1	5059.5	4987.7	4958.7	4810.3	4779.7	4759.9
5°	5131.4	5308.7	5347.0	5324.1	5184.9	5009.1	4837.8	4620.7	4493.8	4489.3
7.5°	5004.5	5223.2	5292.0	5344.0	5159.0	4853.1	4559.6	4233.8	4154.4	4160.5
10°	4681.9	5030.5	5200.2	5253.7	5041.2	4776.7	4369.9	4039.7	3870.0	3866.9
12.5°	4503.0	4776.7	4824.1	4899.0	4836.3	4568.7	4259.8	3889.9	3724.7	3721.7
15°	4343.9	4524.4	4538.1	4643.7	4677.3	4496.8	4288.9	3894.4	3761.4	3747.7
17.5°	4483.1	4357.7	4305.7	4319.5	4418.9	4484.6	4457.1	4154.4	4018.3	3941.9
20°	4576.4	4296.6	4139.1	4154.4	4272.1	4512.1	4707.9	4530.5	4314.9	4324.1
22.5°	4825.6	4305.7	4059.5	4042.7	4229.3	4655.9	4990.8	5006.0	4798.1	4747.6
25°	5198.7	4411.3	4035.1	4030.5	4209.4	4810.3	5321.0	5568.7	5356.2	5262.9
27.5°	5498.4	4576.4	4111.5	4126.8	4272.1	4935.7	5602.4	5931.1	5769.0	5654.4
30°	5761.4	4747.6	4218.6	4148.3	4440.3	5001.4	5723.1	6343.9	6214.0	6119.1
32.5°	5869.9	4990.8	4388.3	4272.1	4579.5	5081.0	5973.9	6744.5	6632.9	6399.0
35°	6053.4	5126.8	4480.0	4470.9	4822.6	5272.1	6091.7	7009.0	6963.1	6755.3
37.5°	6200.2	5264.4	4805.7	4704.8	5155.9	5593.2	6281.2	7374.5	7269.0	7171.1
40°	6313.3	5510.6	5110.0	5243.0	5565.6	5885.2	6455.5	7397.4	7701.7	7417.3
42.5°	6209.3	5730.8	5610.0	5928.0	6233.9	6218.5	6475.4	7574.8	7802.6	7654.3
45°	6183.4	6103.9	6400.5	6689.5	6759.8	6495.3	6333.2	7379.1	7772.1	7706.3
47.5°	6120.7	6470.8	6987.6	7458.5	7351.5	6680.3	6163.5	7343.9	7790.4	7672.6
50°	6099.3	6550.3	7421.9	7880.6	7816.4	6840.8	6084.0	7117.6	7660.4	7649.7
52.5°	6097.8	6713.9	7602.3	8109.9	8149.7	7094.7	6192.5	7232.3	7761.3	7851.5
55°	6166.5	6661.9	7579.4	7983.0	7967.7	6981.5	6204.8	7308.8	7885.2	7973.8
57.5°	5816.4	5967.8	6255.2	6574.8	6492.2	5782.8	5541.2	6756.7	7236.9	7172.7
60°	5022.9	4548.8	4224.7	4209.4	4048.9	3827.1	4535.1	6030.4	6030.4	5967.8
62.5°	4399.0	2986.2	2565.7	2446.4	2561.1	2816.5	4374.5	5865.3	5698.7	5626.8
65°	3847.0	2279.8	1854.7	1821.1	2019.8	2405.1	3955.6	4996.9	4703.2	4464.7
67.5°	2475.5	1669.7	1379.2	1319.5	1559.6	1766.1	2633.0	3073.4	2888.3	2795.1
70°	1596.3	1087.1	767.6	720.2	813.5	1088.7	1682.0	1792.1	1522.9	1460.2
72.5°	755.4	469.4	269.1	221.7	249.2	415.9	665.2	715.6	594.8	544.3
75°	240.1	172.8	110.1	94.8	90.2	107.0	152.9	117.8	85.7	84.1
77.5°	107.0	102.4	87.1	73.4	64.2	53.5	44.3	36.7	38.2	39.8
80°	88.7	81.0	71.9	64.2	53.5	41.3	32.1	24.4	24.4	26.0
82.5°	78.0	70.3	62.7	53.5	45.9	33.7	24.4	16.8	15.3	15.3
85°	33.7	39.8	42.8	45.9	36.7	27.5	16.8	10.7	9.2	9.2
87.5°	13.8	12.2	10.7	9.2	7.7	7.7	6.1	4.6	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)