

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: P529044

Luminaire Tested: **GALN-SA4A-830-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529044
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-830-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 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: 10707 lumens
Efficiency: N/A
Efficacy: 88.5 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



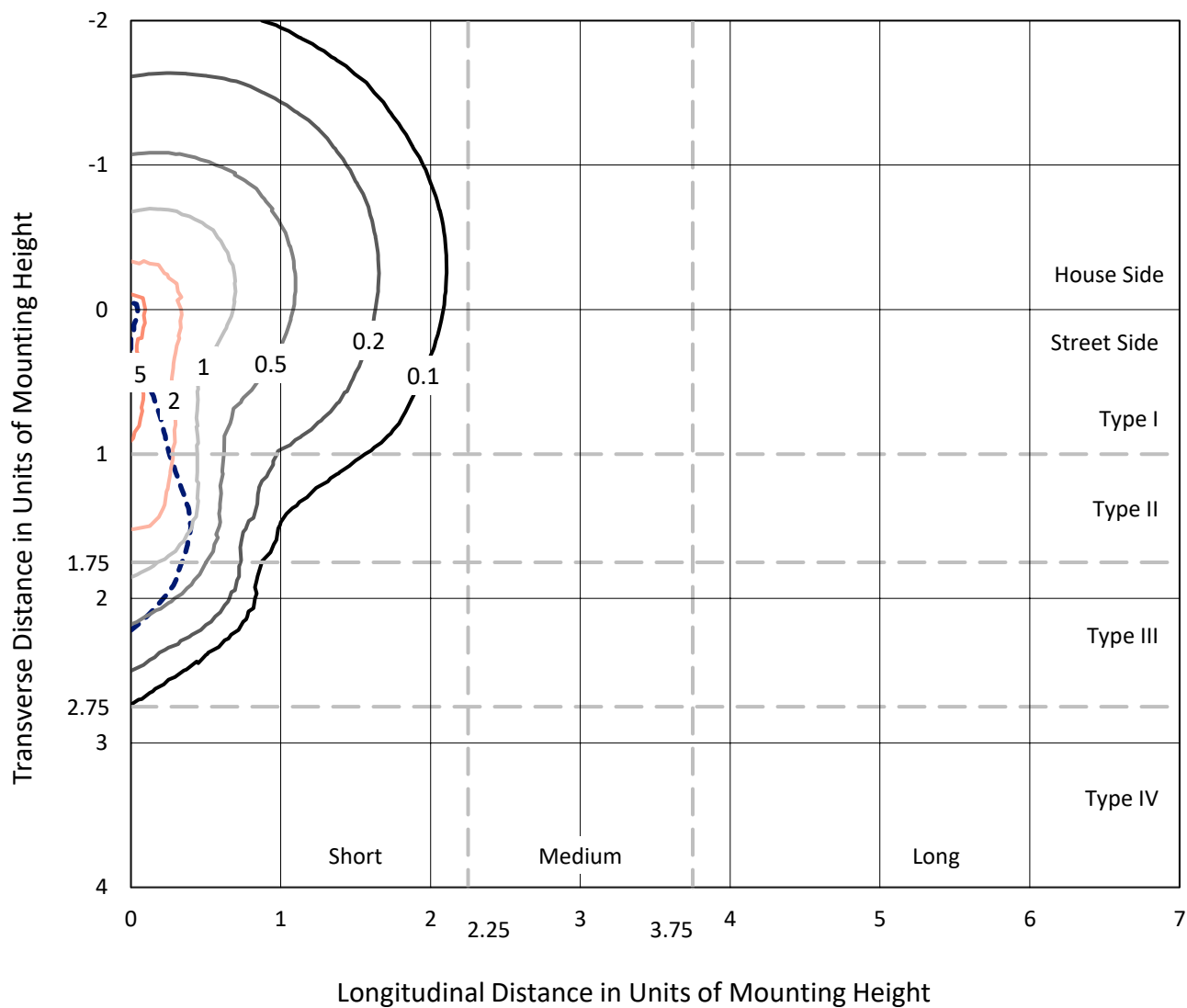
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

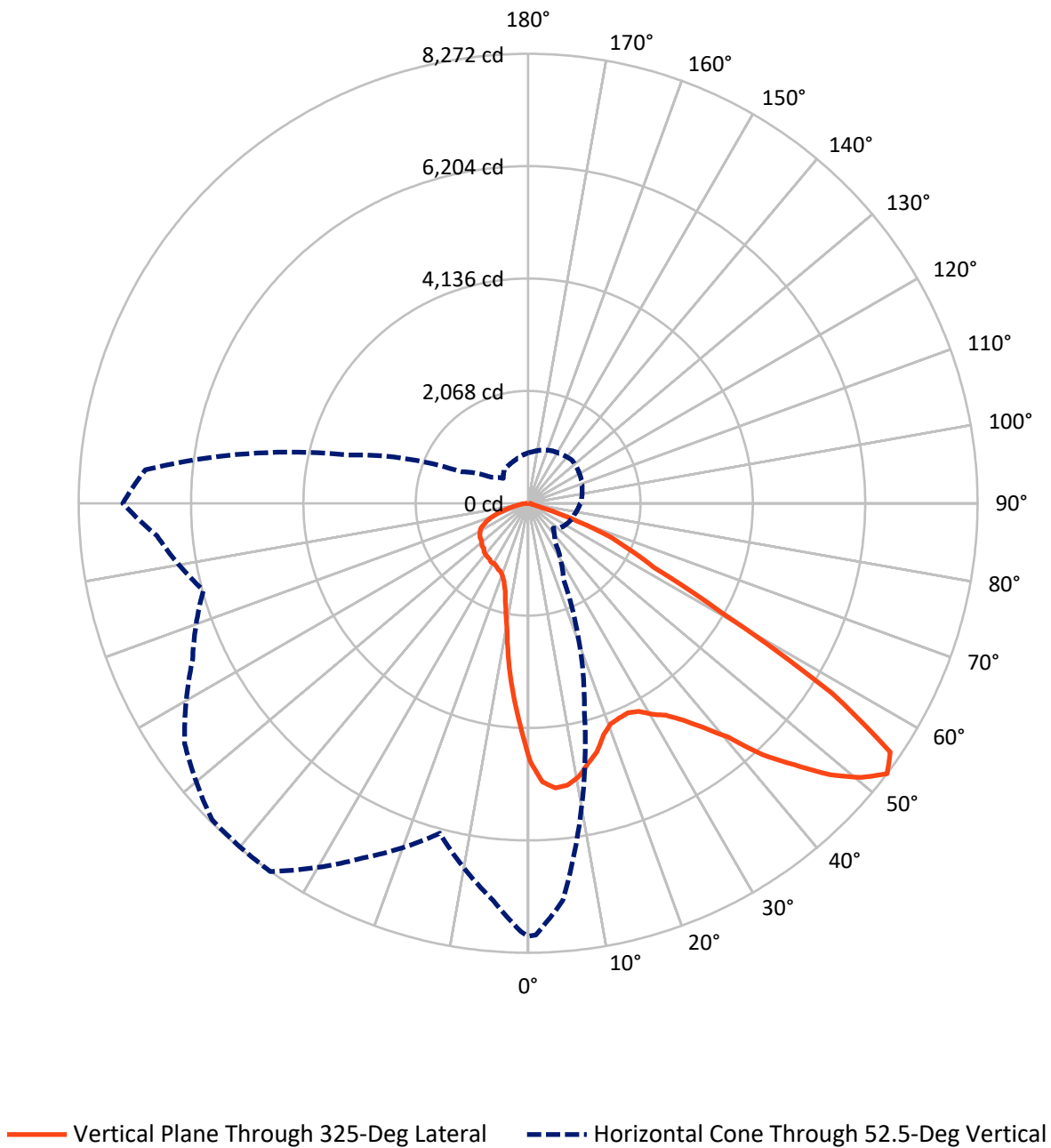


Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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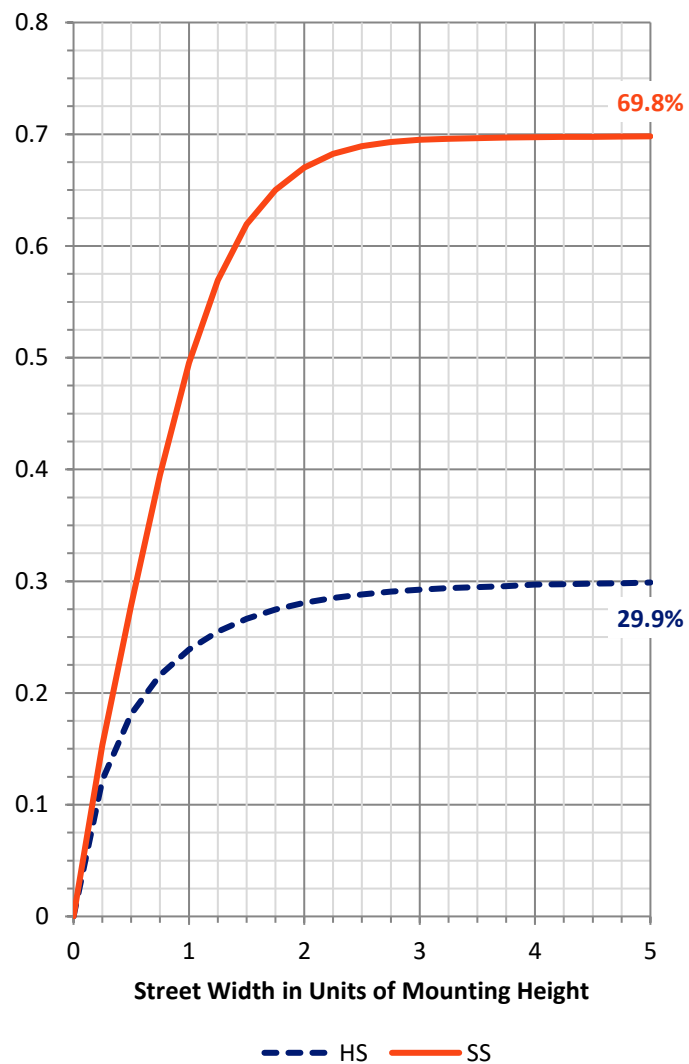
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3227.7	0.0	3227.7
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	7479.3	0.0	7479.3
	% Fixture	69.9	0.0	69.9
Total	Lumens	10707.0	0.0	10707.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.5	3.4
10°-20°	785.9	7.3
20°-30°	1187.4	11.1
30°-40°	1715.9	16.0
40°-50°	2283.5	21.3
50°-60°	2554.2	23.9
60°-70°	1439.5	13.4
70°-80°	320.9	3.0
80°-90°	57.1	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°	10707.0	100.0
0°-180°	10707.0	100.0

Coefficient of Utilization



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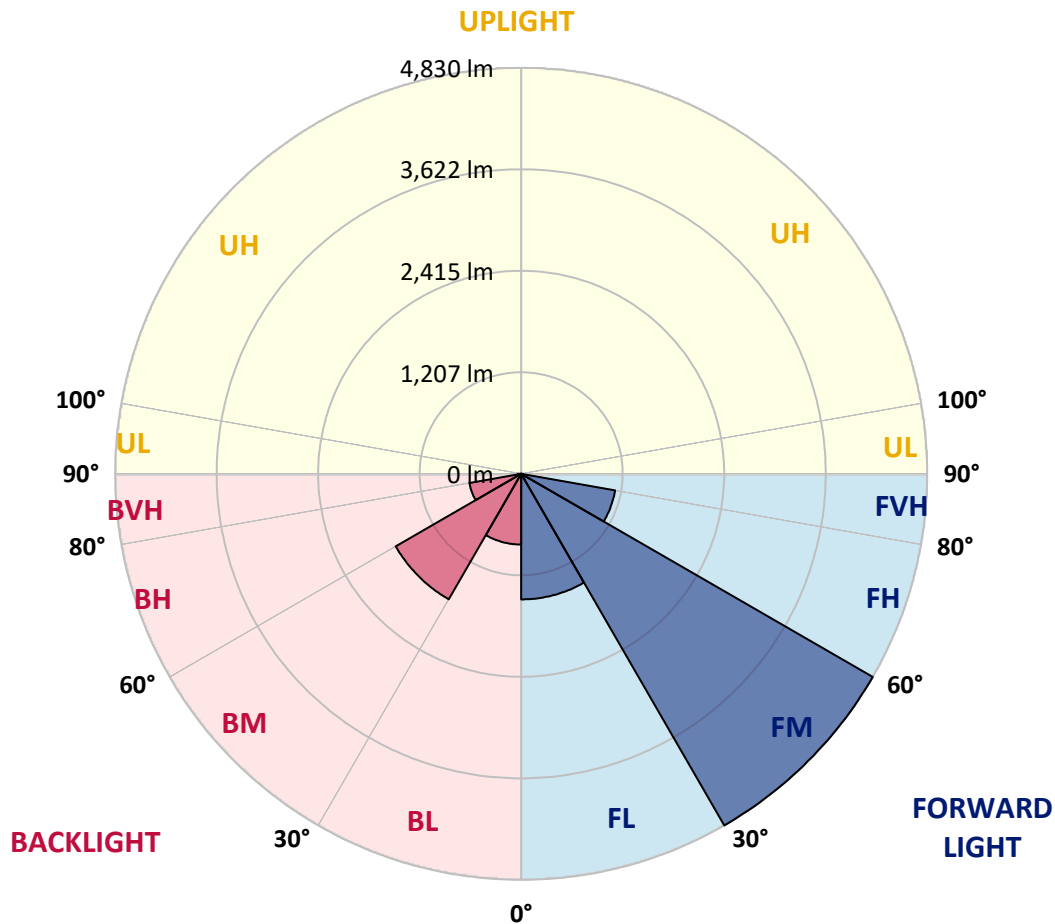
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1494.1	14.0			
FM	(30°-60°)	4829.7	45.1			
FH	(60°-80°)	1134.8	10.6			G1/1800
FVH	(80°-90°)	20.7	0.2			G1/100
BL	(0°-30°)	841.7	7.9	B2/1000		
BM	(30°-60°)	1723.9	16.1	B2/2500		
BH	(60°-80°)	625.6	5.8	B2/1000		G2/1000
BVH	(80°-90°)	36.5	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°	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8
2.5°	4831.0	4908.6	4824.8	4675.8	4570.3	4474.0	4373.2	4353.0	4221.1	4197.8	4101.6
5°	4556.3	4539.2	4436.8	4241.3	4025.6	3830.0	3685.7	3546.0	3451.4	3341.2	3333.4
7.5°	4222.6	4123.3	4064.4	3767.9	3501.0	3193.8	3061.8	2849.2	2782.5	2683.2	2632.0
10°	3924.7	3851.7	3713.6	3417.2	3044.8	2841.5	2700.3	2585.4	2507.8	2405.4	2276.6
12.5°	3777.3	3747.8	3592.6	3133.2	2857.0	2639.7	2540.4	2428.7	2296.8	2132.3	2068.6
15°	3803.6	3704.3	3586.4	3078.9	2697.2	2487.7	2329.4	2189.7	2020.5	1863.8	1772.2
17.5°	4000.7	3924.7	3688.8	3113.1	2636.6	2334.0	2046.9	1840.5	1688.4	1547.2	1483.6
20°	4388.7	4278.5	4013.1	3156.5	2506.3	2119.9	1790.9	1536.4	1373.4	1298.9	1277.2
22.5°	4818.6	4753.4	4329.7	3254.3	2402.3	1921.2	1519.3	1264.8	1204.3	1184.1	1224.4
25°	5341.5	5172.4	4821.7	3414.1	2321.6	1752.1	1289.6	1148.4	1117.3	1137.5	1184.1
27.5°	5738.8	5693.8	5166.2	3564.7	2211.4	1548.8	1160.8	1067.7	1077.0	1097.2	1140.6
30°	6210.6	5982.5	5499.8	3668.6	2112.1	1409.1	1070.8	1046.0	1055.3	1089.4	1111.1
32.5°	6494.6	6409.2	5709.3	3825.4	1997.3	1288.1	1001.0	977.7	991.6	1042.9	1094.1
35°	6856.2	6687.0	5968.5	3865.7	1916.6	1239.9	951.3	934.2	966.8	1002.5	1059.9
37.5°	7278.3	7161.9	6327.0	3837.8	1873.1	1190.3	909.4	901.6	924.9	974.6	1041.3
40°	7528.1	7492.4	6514.8	3854.9	1804.8	1146.8	861.3	870.6	918.7	957.5	1022.7
42.5°	7768.7	7535.9	6792.5	3848.6	1761.4	1087.9	865.9	855.1	892.3	937.3	999.4
45°	7821.4	7590.2	6857.7	3805.2	1708.6	1030.4	830.3	834.9	879.9	935.8	976.1
47.5°	7787.3	7616.6	6978.8	3792.8	1659.0	990.1	777.5	833.4	859.7	904.7	962.2
50°	7764.0	7754.7	7081.2	3851.7	1592.2	926.5	713.9	813.2	839.6	884.6	946.6
52.5°	7968.9	7948.7	7337.3	4006.9	1539.5	858.2	648.7	762.0	825.6	869.0	929.6
55°	8093.0	8004.6	7776.4	4197.8	1451.0	768.2	603.7	698.3	791.5	830.3	892.3
57.5°	7279.8	7219.3	7034.6	3918.5	1302.0	650.2	547.8	633.2	744.9	805.4	869.0
60°	6057.0	5962.3	5489.0	3330.3	960.6	505.9	513.7	582.0	732.5	755.8	830.3
62.5°	5710.9	5476.6	4832.5	2680.1	737.1	434.5	460.9	535.4	667.3	706.1	780.6
65°	4531.5	4357.7	3457.6	1935.2	493.5	377.1	420.6	482.6	575.7	651.8	720.1
67.5°	2836.8	2670.8	1845.2	915.6	344.5	322.8	375.6	440.7	516.8	585.1	661.1
70°	1482.0	1300.5	852.0	330.5	237.4	263.8	313.5	375.6	450.0	505.9	564.9
72.5°	552.5	448.5	277.8	142.8	164.5	201.7	254.5	299.5	352.3	420.6	453.1
75°	85.4	72.9	71.4	86.9	111.7	145.9	181.6	226.6	273.1	316.6	338.3
77.5°	40.3	38.8	43.5	57.4	74.5	104.0	131.9	175.4	212.6	240.5	253.0
80°	26.4	24.8	27.9	38.8	55.9	77.6	105.5	135.0	169.2	192.4	189.3
82.5°	15.5	17.1	17.1	26.4	38.8	55.9	76.0	102.4	125.7	145.9	133.5
85°	9.3	7.8	7.8	15.5	26.4	45.0	63.6	43.5	45.0	45.0	51.2
87.5°	3.1	3.1	3.1	1.6	3.1	3.1	4.7	7.8	9.3	10.9	14.0
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°	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8
2.5°	4098.5	4146.6	4129.5	4069.0	4115.6	4123.3	4092.3	4199.4	4219.5	4187.0	4196.3
5°	3322.6	3335.0	3362.9	3421.9	3463.8	3513.4	3513.4	3516.5	3474.6	3580.2	3549.1
7.5°	2588.5	2596.3	2628.9	2754.6	2790.3	2884.9	2925.3	2897.3	2813.5	2777.9	2807.3
10°	2234.7	2189.7	2178.8	2194.3	2275.0	2315.4	2349.5	2340.2	2326.3	2298.3	2267.3
12.5°	1998.8	1966.2	1939.8	1902.6	1907.3	1946.0	1972.4	1950.7	1956.9	1963.1	1972.4
15°	1742.8	1719.5	1705.5	1649.6	1643.4	1669.8	1679.1	1691.5	1714.8	1716.4	1705.5
17.5°	1471.2	1451.0	1482.0	1513.1	1491.3	1492.9	1510.0	1520.8	1514.6	1486.7	1472.7
20°	1285.0	1306.7	1337.7	1367.2	1390.5	1404.4	1410.7	1393.6	1373.4	1316.0	1314.4
22.5°	1230.6	1258.6	1285.0	1330.0	1351.7	1387.4	1354.8	1316.0	1288.1	1260.1	1227.5
25°	1190.3	1213.6	1266.3	1283.4	1325.3	1354.8	1331.5	1292.7	1244.6	1204.3	1179.4
27.5°	1160.8	1187.2	1221.3	1267.9	1300.5	1317.5	1294.3	1278.7	1229.1	1181.0	1145.3
30°	1142.2	1170.1	1232.2	1271.0	1298.9	1312.9	1272.5	1253.9	1218.2	1177.9	1146.8
32.5°	1129.8	1154.6	1207.4	1257.0	1275.6	1275.6	1281.8	1260.1	1210.5	1142.2	1115.8
35°	1089.4	1123.6	1167.0	1224.4	1258.6	1278.7	1247.7	1222.9	1190.3	1120.5	1072.3
37.5°	1066.1	1089.4	1145.3	1199.6	1229.1	1250.8	1238.4	1194.9	1151.5	1094.1	1055.3
40°	1041.3	1078.6	1128.2	1179.4	1212.0	1233.7	1224.4	1173.2	1120.5	1066.1	1039.8
42.5°	1024.2	1049.1	1100.3	1157.7	1196.5	1238.4	1210.5	1146.8	1109.6	1035.1	1005.6
45°	1010.3	1050.6	1104.9	1128.2	1168.6	1212.0	1162.4	1123.6	1080.1	1025.8	1001.0
47.5°	993.2	1030.4	1066.1	1128.2	1146.8	1167.0	1157.7	1095.6	1058.4	999.4	982.3
50°	987.0	1001.0	1066.1	1100.3	1126.7	1146.8	1122.0	1075.4	1039.8	979.2	942.0
52.5°	962.2	988.5	1030.4	1075.4	1108.0	1132.9	1092.5	1063.0	1014.9	951.3	928.0
55°	931.1	946.6	1021.1	1067.7	1084.8	1101.8	1086.3	1038.2	988.5	923.4	900.1
57.5°	890.8	926.5	987.0	1052.2	1073.9	1083.2	1058.4	1019.6	957.5	900.1	862.8
60°	848.9	886.1	952.8	1005.6	1027.3	1061.5	1024.2	1001.0	929.6	865.9	825.6
62.5°	807.0	848.9	898.5	965.3	983.9	997.9	988.5	956.0	898.5	827.1	777.5
65°	757.3	788.4	850.4	884.6	897.0	929.6	897.0	884.6	833.4	765.1	723.2
67.5°	682.8	709.2	763.5	796.1	805.4	819.4	817.8	803.9	746.5	699.9	662.6
70°	597.5	620.7	654.9	693.7	698.3	715.4	699.9	696.8	659.5	595.9	575.7
72.5°	479.5	501.3	546.3	563.3	564.9	571.1	563.3	552.5	543.2	476.4	456.3
75°	367.8	380.2	401.9	417.5	417.5	425.2	420.6	409.7	384.9	343.0	322.8
77.5°	256.1	268.5	296.4	305.7	304.2	307.3	293.3	282.4	245.2	223.5	206.4
80°	186.2	194.0	208.0	214.2	215.7	220.4	203.3	194.0	172.3	147.4	139.7
82.5°	135.0	139.7	141.2	149.0	149.0	141.2	136.6	127.3	111.7	96.2	90.0
85°	55.9	57.4	59.0	68.3	69.8	83.8	77.6	72.9	63.6	54.3	49.7
87.5°	14.0	15.5	20.2	17.1	20.2	20.2	21.7	24.8	24.8	20.2	20.2
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°	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8
2.5°	4232.0	4244.4	4402.7	4422.8	4500.4	4579.6	4739.4	4854.3	4947.4	5007.9	5025.0
5°	3581.7	3660.9	3733.8	3851.7	3958.8	4110.9	4286.3	4503.5	4776.7	4916.3	4972.2
7.5°	2804.2	2897.3	3002.9	3117.7	3274.5	3547.6	3781.9	4033.3	4382.5	4526.8	4745.6
10°	2289.0	2393.0	2532.7	2621.1	2810.4	3071.2	3344.3	3634.5	3968.1	4176.1	4429.0
12.5°	2023.6	2109.0	2237.8	2424.0	2565.2	2734.4	2937.7	3303.9	3781.9	3979.0	4152.8
15°	1730.3	1825.0	1974.0	2180.4	2349.5	2551.3	2779.4	3178.2	3687.2	3991.4	4138.8
17.5°	1488.2	1556.5	1713.3	1891.7	2085.7	2306.1	2633.5	3172.0	3786.6	4176.1	4416.6
20°	1320.6	1330.0	1415.3	1567.4	1831.2	2118.3	2543.5	3141.0	4104.7	4494.2	4798.4
22.5°	1215.1	1205.8	1207.4	1336.2	1520.8	1933.6	2402.3	3246.5	4466.3	5000.1	5205.0
25°	1162.4	1137.5	1122.0	1149.9	1317.5	1714.8	2295.2	3386.2	4855.8	5417.6	5669.0
27.5°	1134.4	1091.0	1059.9	1064.6	1187.2	1604.6	2228.5	3446.7	5242.2	5999.5	6088.0
30°	1123.6	1069.2	1024.2	1008.7	1089.4	1451.0	2085.7	3550.7	5588.3	6319.2	6395.3
32.5°	1084.8	1018.0	974.6	960.6	993.2	1316.0	1983.3	3625.2	5894.0	6666.8	6640.5
35°	1039.8	983.9	929.6	903.2	926.5	1229.1	1901.0	3589.5	6254.0	6936.9	6922.9
37.5°	1035.1	962.2	917.2	873.7	872.2	1122.0	1789.3	3623.6	6483.7	7421.1	7230.2
40°	994.8	948.2	889.2	853.5	833.4	1067.7	1680.7	3542.9	6820.5	7616.6	7428.8
42.5°	996.3	926.5	875.3	833.4	813.2	988.5	1606.2	3521.2	6938.4	7934.7	7521.9
45°	971.5	903.2	859.7	810.1	799.2	928.0	1534.8	3420.3	7146.4	7950.2	7405.5
47.5°	946.6	886.1	839.6	780.6	755.8	906.3	1478.9	3336.5	7037.7	7804.4	7244.1
50°	929.6	859.7	816.3	774.4	704.5	869.0	1406.0	3316.4	6885.7	7607.3	6944.6
52.5°	900.1	838.0	793.0	760.4	648.7	834.9	1378.1	3434.3	7071.9	7459.8	6857.7
55°	872.2	808.5	751.1	687.5	602.1	744.9	1300.5	3544.5	7343.5	7799.7	7251.9
57.5°	842.7	782.1	720.1	644.0	557.1	651.8	1219.8	3564.7	6834.4	7208.4	6884.1
60°	803.9	726.3	679.7	580.4	509.0	540.1	966.8	3142.5	5301.2	6019.7	6030.6
62.5°	760.4	676.6	636.3	519.9	459.4	465.6	788.4	2641.3	4300.2	4983.1	5279.5
65°	703.0	622.3	574.2	481.1	423.7	403.5	577.3	1935.2	3266.7	4042.6	4379.4
67.5°	628.5	552.5	491.9	419.0	378.7	346.1	394.2	1089.4	1929.0	2714.2	2816.6
70°	549.4	484.2	420.6	360.0	315.0	291.8	288.6	482.6	921.8	1460.3	1662.1
72.5°	433.0	386.4	335.2	290.2	260.7	226.6	206.4	200.2	311.9	594.4	820.9
75°	310.4	271.6	242.1	212.6	190.9	172.3	156.7	142.8	130.4	149.0	204.8
77.5°	195.5	181.6	158.3	150.5	138.1	133.5	127.3	119.5	110.2	104.0	104.0
80°	131.9	122.6	114.8	113.3	108.6	107.1	108.6	100.9	91.6	83.8	86.9
82.5°	88.5	86.9	85.4	83.8	85.4	86.9	90.0	88.5	80.7	76.0	77.6
85°	52.8	55.9	59.0	62.1	68.3	60.5	49.7	41.9	37.2	34.1	32.6
87.5°	20.2	27.9	24.8	23.3	24.8	23.3	21.7	20.2	17.1	15.5	15.5
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: P529044

CATALOG NUMBER: GALN-SA4A-830-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8
2.5°	5138.2	5169.3	5195.7	5189.5	5135.1	5062.2	5032.7	4882.2	4851.2	4831.0
5°	5208.1	5388.1	5426.9	5403.6	5262.4	5083.9	4910.1	4689.8	4561.0	4556.3
7.5°	5079.3	5301.2	5371.0	5423.8	5236.0	4925.6	4627.7	4297.1	4216.4	4222.6
10°	4751.8	5105.7	5277.9	5332.2	5116.5	4848.0	4435.3	4100.0	3927.8	3924.7
12.5°	4570.3	4848.0	4896.2	4972.2	4908.6	4637.0	4323.5	3948.0	3780.4	3777.3
15°	4408.9	4592.0	4606.0	4713.0	4747.2	4564.1	4353.0	3952.6	3817.6	3803.6
17.5°	4550.1	4422.8	4370.1	4384.0	4484.9	4551.6	4523.7	4216.4	4078.3	4000.7
20°	4644.8	4360.8	4200.9	4216.4	4335.9	4579.6	4778.2	4598.2	4379.4	4388.7
22.5°	4897.7	4370.1	4120.2	4103.1	4292.5	4725.5	5065.3	5080.8	4869.8	4818.6
25°	5276.4	4477.2	4095.4	4090.7	4272.3	4882.2	5400.5	5651.9	5436.2	5341.5
27.5°	5580.5	4644.8	4173.0	4188.5	4335.9	5009.4	5686.1	6019.7	5855.2	5738.8
30°	5847.5	4818.6	4281.6	4210.2	4506.6	5076.2	5808.7	6438.7	6306.8	6210.6
32.5°	5957.6	5065.3	4453.9	4335.9	4647.9	5156.9	6063.2	6845.3	6732.0	6494.6
35°	6143.9	5203.4	4547.0	4537.7	4894.6	5350.9	6182.7	7113.8	7067.2	6856.2
37.5°	6292.8	5343.1	4877.5	4775.1	5232.9	5676.7	6375.1	7484.7	7377.6	7278.3
40°	6407.7	5592.9	5186.4	5321.4	5648.8	5973.2	6552.0	7508.0	7816.8	7528.1
42.5°	6302.2	5816.4	5693.8	6016.6	6327.0	6311.5	6572.2	7688.0	7919.2	7768.7
45°	6275.8	6195.1	6496.1	6789.4	6860.8	6592.4	6427.9	7489.3	7888.2	7821.4
47.5°	6212.1	6567.5	7092.1	7570.0	7461.4	6780.1	6255.6	7453.6	7906.8	7787.3
50°	6190.4	6648.2	7532.8	7998.3	7933.2	6943.1	6174.9	7224.0	7774.9	7764.0
52.5°	6188.9	6814.3	7715.9	8231.1	8271.5	7200.7	6285.1	7340.4	7877.3	7968.9
55°	6258.7	6761.5	7692.6	8102.3	8086.8	7085.8	6297.5	7417.9	8003.0	8093.0
57.5°	5903.3	6057.0	6348.7	6673.1	6589.2	5869.2	5624.0	6857.7	7345.0	7279.8
60°	5097.9	4616.8	4287.8	4272.3	4109.4	3884.3	4602.9	6120.6	6120.6	6057.0
62.5°	4464.7	3030.8	2604.0	2483.0	2599.4	2858.5	4439.9	5953.0	5783.8	5710.9
65°	3904.5	2313.8	1882.4	1848.3	2050.0	2441.1	4014.7	5071.5	4773.6	4531.5
67.5°	2512.5	1694.6	1399.8	1339.3	1582.9	1792.4	2672.3	3119.3	2931.5	2836.8
70°	1620.2	1103.4	779.0	730.9	825.6	1104.9	1707.1	1818.8	1545.7	1482.0
72.5°	766.6	476.4	273.1	225.0	253.0	422.1	675.1	726.3	603.7	552.5
75°	243.6	175.4	111.7	96.2	91.6	108.6	155.2	119.5	86.9	85.4
77.5°	108.6	104.0	88.5	74.5	65.2	54.3	45.0	37.2	38.8	40.3
80°	90.0	82.2	72.9	65.2	54.3	41.9	32.6	24.8	24.8	26.4
82.5°	79.1	71.4	63.6	54.3	46.6	34.1	24.8	17.1	15.5	15.5
85°	34.1	40.3	43.5	46.6	37.2	27.9	17.1	10.9	9.3	9.3
87.5°	14.0	12.4	10.9	9.3	7.8	7.8	6.2	4.7	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)