

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: P527170

Luminaire Tested: **GALN-SA2A-830-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-830-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5442 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 63
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

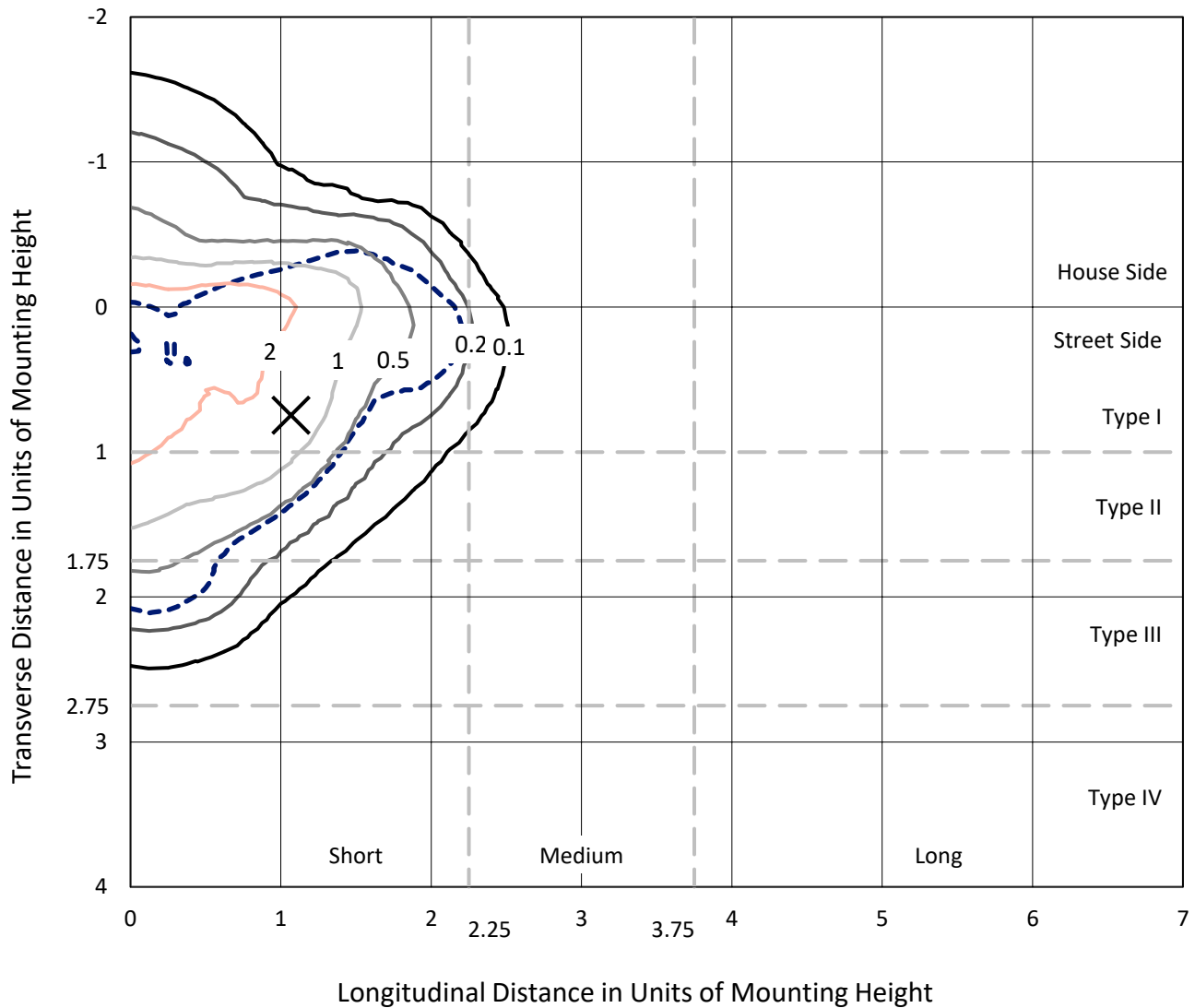


REPORT NUMBER: P527170

CATALOG NUMBER: GALN-SA2A-830-U-SLL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

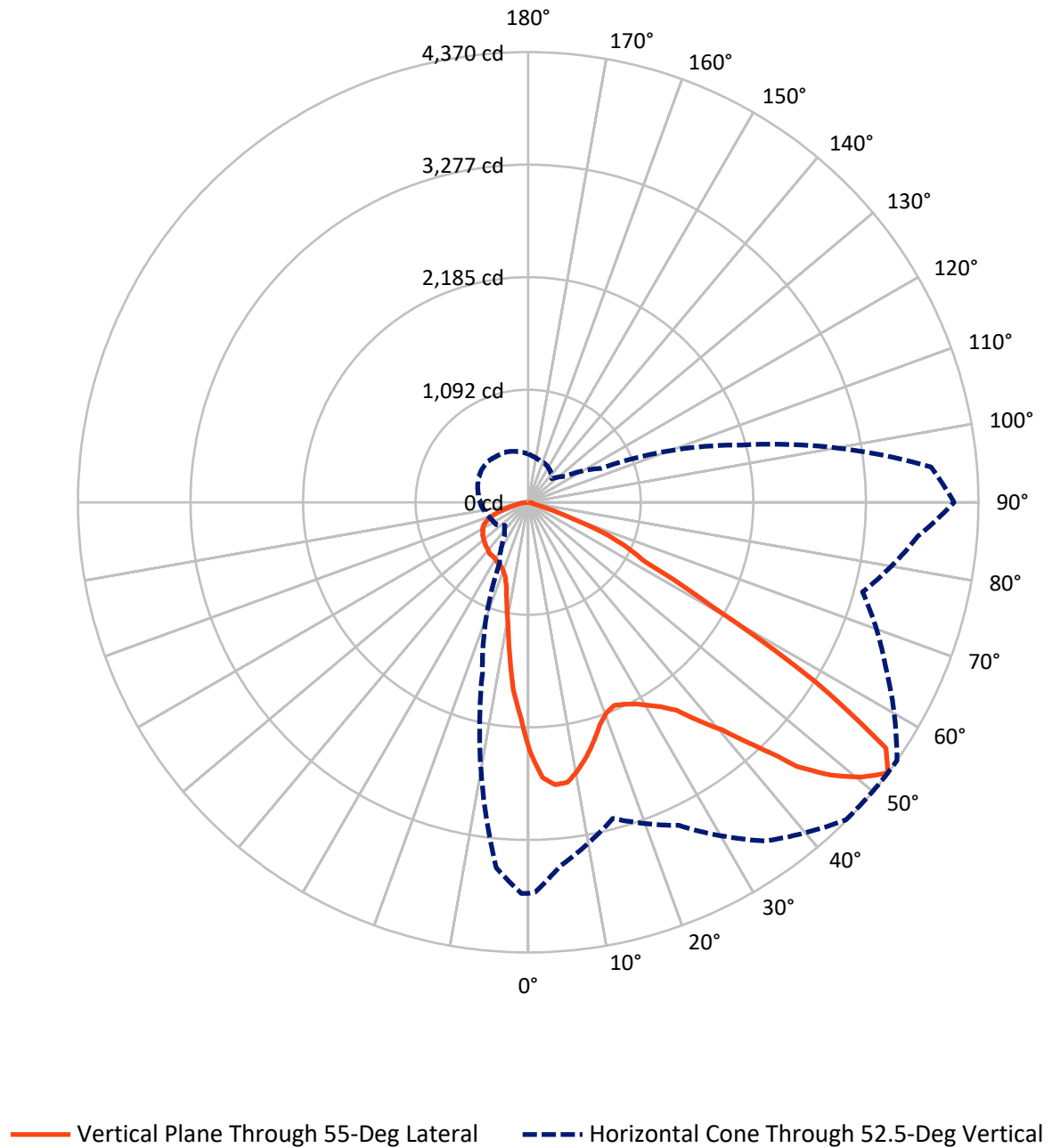


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

REPORT NUMBER: P527170

CATALOG NUMBER: GALN-SA2A-830-U-SLL-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P527170

CATALOG NUMBER: GALN-SA2A-830-U-SLL-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1660.1	0.0	1660.1
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	3781.9	0.0	3781.9
	% Fixture	69.5	0.0	69.5
Total	Lumens	5442.0	0.0	5442.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.5	3.4
10°-20°	399.9	7.3
20°-30°	606.3	11.1
30°-40°	876.1	16.1
40°-50°	1170.7	21.5
50°-60°	1306.7	24.0
60°-70°	716.8	13.2
70°-80°	155.0	2.8
80°-90°	25.1	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°	5442.0	100.0
0°-180°	5442.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527170

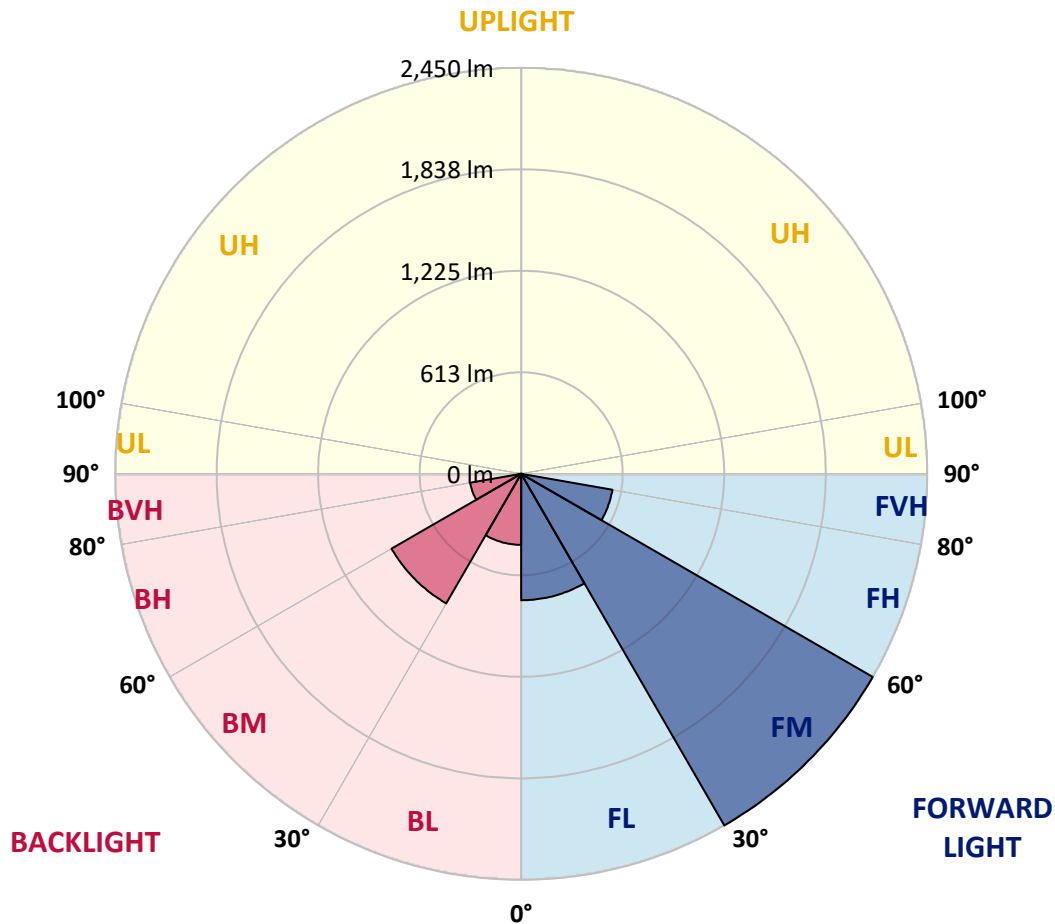
CATALOG NUMBER: GALN-SA2A-830-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	763.1	14.0			
FM	(30°-60°)	2450.2	45.0			
FH	(60°-80°)	559.3	10.3			G0/660
FVH	(80°-90°)	9.3	0.2			G0/10
BL	(0°-30°)	428.6	7.9	B1/500		
BM	(30°-60°)	903.2	16.6	B1/1000		
BH	(60°-80°)	312.5	5.7	B1/500		G1/500
BVH	(80°-90°)	15.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



REPORT NUMBER: P527170

CATALOG NUMBER: GALN-SA2A-830-U-SLL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6
2.5°	2547.5	2533.2	2546.0	2606.3	2641.3	2665.1	2680.2	2677.9	2620.6	2565.0	2565.0
5°	2472.8	2454.6	2480.8	2617.5	2754.9	2766.9	2786.7	2754.1	2669.9	2568.2	2441.1
7.5°	2256.7	2270.2	2313.9	2493.5	2672.3	2762.1	2785.9	2744.6	2607.9	2418.0	2231.3
10°	2070.0	2101.8	2202.7	2396.6	2561.0	2677.9	2704.1	2646.1	2538.0	2305.2	2138.3
12.5°	2005.6	1985.7	2097.8	2291.7	2449.0	2511.8	2523.7	2527.7	2454.6	2248.0	2044.5
15°	1997.7	2010.4	2097.8	2244.8	2341.7	2344.9	2364.8	2395.8	2405.3	2286.9	2088.3
17.5°	2112.1	2097.0	2186.8	2303.6	2257.5	2211.4	2216.2	2260.7	2339.4	2320.3	2225.7
20°	2281.3	2315.5	2386.2	2374.3	2250.4	2133.5	2134.3	2176.5	2331.4	2458.5	2417.2
22.5°	2562.6	2596.0	2648.5	2504.6	2250.4	2110.5	2083.5	2140.7	2382.3	2623.0	2633.4
25°	2819.3	2880.5	2894.8	2725.5	2363.2	2132.0	2114.5	2170.9	2433.1	2783.5	2881.3
27.5°	3052.9	3075.2	3137.9	2867.8	2426.0	2146.3	2144.7	2217.0	2497.5	2863.8	3103.0
30°	3237.3	3234.9	3270.6	2957.6	2526.1	2226.5	2149.4	2286.1	2581.7	2996.5	3308.0
32.5°	3362.8	3389.8	3465.3	3082.3	2568.2	2302.8	2242.4	2367.2	2684.2	3059.3	3452.6
35°	3583.7	3630.6	3535.2	3151.4	2701.7	2378.3	2307.6	2477.6	2735.1	3127.6	3629.8
37.5°	3791.9	3756.2	3659.2	3188.8	2788.3	2518.1	2452.2	2691.4	2893.2	3276.2	3747.4
40°	3925.4	3924.6	3752.2	3219.0	2849.5	2731.9	2727.9	2908.3	3087.1	3370.0	3879.3
42.5°	3983.4	4039.0	3790.3	3215.8	2978.2	2990.9	3071.2	3232.5	3224.6	3389.0	3876.1
44°	4062.9	4096.2	3856.3	3223.0	3064.0	3165.8	3354.9	3457.4	3344.5	3378.7	3872.2
45°	4059.7	4062.1	3762.5	3232.5	3137.1	3312.0	3481.2	3654.4	3450.2	3356.5	3924.6
47.5°	3966.7	3939.7	3683.0	3161.8	3365.2	3698.1	3854.7	3959.6	3580.5	3308.8	3859.5
50°	3783.2	3752.2	3490.0	3131.6	3412.9	3938.1	4154.3	4192.4	3698.9	3261.9	3795.1
52.5°	3795.9	3787.1	3544.8	3176.9	3460.6	4013.6	4360.1	4369.6	3833.2	3360.4	3795.9
55°	4023.1	3992.9	3702.1	3233.3	3425.6	3925.4	4228.9	4212.3	3787.9	3300.8	3865.8
57.5°	3681.5	3701.3	3484.4	3010.0	2998.1	3191.2	3324.7	3283.4	3161.0	2979.0	3596.4
60°	2970.3	3026.7	3047.4	2517.3	2262.3	2162.9	2123.2	2050.1	2070.8	2447.4	3159.4
62.5°	2547.5	2544.4	2673.9	2282.1	1482.0	1274.6	1255.5	1272.2	1510.6	2409.3	3094.2
65°	2019.9	2073.9	2113.7	1934.1	1172.9	946.4	945.6	1051.3	1307.1	2013.6	2498.3
67.5°	1282.5	1353.2	1402.5	1237.2	784.3	673.8	655.6	782.7	905.9	1320.7	1504.2
70°	723.1	756.5	778.7	713.6	499.0	349.6	329.0	359.2	547.5	855.0	891.6
72.5°	278.9	294.0	324.2	326.6	188.3	112.8	91.4	109.7	230.4	338.5	322.6
75°	42.9	46.1	65.2	77.9	54.0	41.3	43.7	45.3	64.4	87.4	73.1
77.5°	20.7	20.7	19.9	23.0	27.0	29.4	31.8	35.0	38.1	42.1	40.5
80°	13.5	13.5	13.5	15.9	19.9	23.8	27.0	28.6	30.2	33.4	31.8
82.5°	8.7	8.7	8.7	11.9	15.9	19.9	21.5	25.4	28.6	33.4	31.0
85°	4.8	4.8	4.8	7.9	11.9	16.7	15.9	12.7	7.2	0.8	1.6
87.5°	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P527170

CATALOG NUMBER: GALN-SA2A-830-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6
2.5°	2498.3	2461.7	2458.5	2383.8	2317.1	2284.5	2258.3	2185.2	2201.1	2159.0	2158.2
5°	2377.5	2302.8	2182.0	2082.7	1983.4	1963.5	1876.9	1801.4	1803.8	1749.7	1759.3
7.5°	2160.6	2108.9	1961.9	1806.2	1674.3	1580.5	1498.6	1449.4	1386.6	1365.2	1354.0
10°	2023.1	1959.5	1794.2	1598.8	1451.0	1400.9	1322.2	1278.5	1214.2	1182.4	1160.1
12.5°	1962.7	1869.7	1663.1	1464.5	1365.9	1314.3	1247.5	1168.1	1091.8	1062.4	1021.9
15°	1969.1	1857.8	1625.0	1410.4	1292.0	1191.9	1132.3	1044.1	966.3	914.6	885.2
17.5°	2065.2	1930.1	1642.5	1369.1	1199.1	1073.5	956.7	861.4	799.4	760.4	750.9
20°	2292.5	2108.9	1671.9	1302.4	1106.1	949.6	805.7	706.4	658.7	657.9	658.7
22.5°	2481.6	2299.6	1731.5	1262.6	1013.1	790.6	647.6	615.8	606.3	626.2	628.5
25°	2736.7	2514.2	1834.0	1242.0	927.3	673.8	585.6	573.7	572.9	598.3	599.1
27.5°	2998.1	2701.7	1895.2	1181.6	839.9	613.4	548.3	545.9	558.6	585.6	583.2
30°	3176.1	2859.0	2005.6	1109.3	736.6	560.2	533.2	536.4	553.8	574.5	577.7
32.5°	3383.5	3014.0	2034.2	1069.6	673.0	515.7	496.6	503.8	526.0	558.6	576.1
35°	3621.1	3123.6	2077.9	1015.5	649.2	481.5	472.0	479.9	507.0	528.4	547.5
37.5°	3796.7	3317.5	2085.9	973.4	623.0	462.5	447.4	473.6	489.5	519.7	529.2
40°	3927.0	3458.2	2106.5	947.2	602.3	437.8	437.8	455.3	476.8	504.6	523.7
42.5°	4010.4	3560.7	2121.6	923.3	562.6	430.7	426.7	444.2	472.8	499.8	508.6
44°	4061.3	3604.4	2106.5	901.1	551.5	421.9	421.9	437.0	459.3	491.1	501.4
45°	4074.0	3659.2	2073.2	900.3	538.0	411.6	410.0	438.6	453.7	492.7	499.0
47.5°	4123.3	3726.8	2077.1	874.9	505.4	387.0	414.8	427.5	441.0	475.2	496.6
50°	4121.7	3768.9	2068.4	837.5	481.5	359.2	405.3	419.6	433.1	468.0	476.8
52.5°	4132.8	3926.2	2148.6	777.9	438.6	323.4	373.5	405.3	421.9	451.3	469.6
55°	4127.2	4016.0	2228.1	733.4	378.2	302.0	346.5	383.8	407.6	438.6	447.4
57.5°	3769.7	3549.6	2062.0	650.0	313.1	276.5	308.3	361.6	391.7	423.5	434.7
60°	3079.9	2735.9	1700.5	478.4	257.5	254.3	286.9	354.4	367.1	394.9	414.0
62.5°	2846.3	2399.7	1348.5	365.5	220.1	232.8	264.6	320.2	340.1	374.3	391.7
65°	2227.3	1594.0	835.1	247.1	193.9	209.0	239.2	280.5	313.1	344.9	365.5
67.5°	1319.1	870.9	413.2	173.2	169.3	185.1	216.1	247.1	284.5	319.4	329.8
70°	718.3	428.3	176.4	131.9	143.8	158.1	188.3	209.8	245.5	272.6	290.0
72.5°	230.4	130.3	88.2	97.7	109.7	126.3	144.6	170.8	196.3	212.2	226.5
75°	55.6	54.8	62.8	68.3	79.5	92.2	107.3	120.8	140.6	155.7	168.5
77.5°	38.9	42.1	48.5	56.4	60.4	65.2	74.7	85.0	93.8	104.9	112.8
80°	30.2	32.6	37.3	41.3	45.3	49.3	54.0	58.0	63.6	70.7	74.7
82.5°	28.6	30.2	35.0	37.3	35.8	35.0	38.1	39.7	40.5	42.9	45.3
85°	2.4	0.0	1.6	5.6	13.5	19.9	21.5	21.5	20.7	22.2	22.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.2	2.4
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: P527170

CATALOG NUMBER: GALN-SA2A-830-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6
2.5°	2148.6	2121.6	2132.0	2144.7	2126.4	2084.3	2095.4	2090.6	2133.5	2130.4	2173.3
5°	1801.4	1759.3	1764.0	1826.0	1806.2	1827.6	1784.7	1779.1	1787.1	1791.1	1798.2
7.5°	1378.7	1373.1	1420.8	1473.2	1497.9	1472.4	1430.3	1420.8	1412.0	1394.6	1434.3
10°	1125.2	1126.8	1123.6	1163.3	1191.1	1185.6	1160.1	1157.0	1140.3	1133.9	1156.2
12.5°	1004.4	982.9	972.6	959.9	981.4	995.7	984.5	976.6	977.4	985.3	988.5
15°	887.6	874.1	851.8	837.5	847.9	840.7	836.7	852.6	848.7	847.1	866.1
17.5°	756.5	767.6	766.0	750.1	763.6	758.1	757.3	746.1	731.0	719.9	726.3
20°	669.9	690.5	706.4	707.2	714.4	713.6	701.6	667.5	656.4	654.0	655.6
22.5°	638.9	650.0	669.1	696.1	696.1	683.4	669.1	629.3	619.0	607.9	603.1
25°	614.2	635.7	660.3	663.5	676.2	664.3	641.3	621.4	599.9	584.8	584.8
27.5°	601.5	625.4	643.6	649.2	666.7	657.1	633.3	607.9	582.5	581.7	568.2
30°	596.0	618.2	630.1	643.6	651.6	636.5	629.3	602.3	576.9	570.5	548.3
32.5°	579.3	611.1	633.3	630.1	636.5	630.1	619.8	597.6	568.9	554.6	552.3
35°	560.2	592.0	615.8	632.5	636.5	623.0	616.6	586.4	547.5	540.3	515.7
37.5°	549.9	568.9	598.3	625.4	630.9	623.8	602.3	571.3	532.4	524.4	503.0
40°	537.2	561.8	584.8	607.1	623.8	606.3	581.7	551.5	534.0	510.1	503.8
42.5°	527.6	555.4	574.5	599.1	618.2	595.2	566.6	545.9	521.3	505.4	487.1
44°	524.4	549.9	562.6	592.8	608.7	591.2	567.4	545.9	517.3	503.0	487.1
45°	513.3	548.3	561.8	588.8	602.3	588.0	557.8	536.4	515.7	498.2	481.5
47.5°	502.2	526.0	549.1	570.5	580.1	575.3	549.9	523.7	499.0	488.7	472.8
50°	499.0	522.9	544.3	564.2	575.3	565.8	542.7	517.3	488.7	472.0	458.5
52.5°	483.1	512.5	536.4	542.7	557.0	551.5	534.0	506.2	479.2	464.9	453.7
55°	460.1	491.1	523.7	531.6	552.3	543.5	517.3	491.1	468.0	446.6	432.3
57.5°	451.3	481.5	513.3	523.7	536.4	522.1	515.7	487.9	451.3	440.2	418.0
60°	429.1	467.2	493.5	517.3	518.1	514.1	503.0	471.2	441.0	420.4	404.5
62.5°	411.6	447.4	468.0	490.3	503.8	492.7	481.5	452.1	419.6	396.5	378.2
65°	386.2	418.8	436.2	449.8	464.9	463.3	444.2	422.7	388.6	370.3	352.8
67.5°	347.2	375.9	399.7	412.4	421.9	419.6	405.3	390.2	355.2	336.9	324.2
70°	300.4	329.8	344.9	352.0	361.6	366.3	355.2	348.0	317.1	293.2	281.3
72.5°	241.6	260.6	282.9	289.2	293.2	296.4	296.4	290.0	258.3	248.7	228.1
75°	178.0	193.1	209.8	209.8	216.9	217.7	219.3	215.3	191.5	178.8	174.0
77.5°	120.8	131.9	145.4	151.0	155.7	155.0	154.2	143.0	130.3	124.8	120.0
80°	78.7	89.8	96.1	103.3	108.1	107.3	108.9	100.9	95.4	85.8	87.4
82.5°	46.9	55.6	62.0	70.7	70.7	73.1	73.1	70.7	65.2	60.4	60.4
85°	22.2	29.4	33.4	38.9	42.1	42.9	38.1	32.6	27.0	24.6	27.0
87.5°	4.0	5.6	7.9	7.2	8.7	7.9	7.9	7.9	7.9	6.4	7.2
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: P527170

CATALOG NUMBER: GALN-SA2A-830-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6	2427.6
2.5°	2157.4	2197.1	2224.9	2271.0	2350.5	2414.0	2479.2	2527.7	2533.2	2547.5
5°	1824.4	1845.9	1916.6	2008.8	2073.9	2181.2	2250.4	2375.9	2422.8	2472.8
7.5°	1424.7	1459.7	1554.3	1616.2	1759.3	1893.6	2032.6	2187.6	2249.6	2256.7
10°	1201.5	1252.3	1316.7	1416.0	1493.9	1643.3	1816.5	1988.9	2058.1	2070.0
12.5°	1055.3	1120.4	1206.2	1277.7	1352.4	1482.8	1648.8	1861.8	1951.6	2005.6
15°	914.6	982.1	1076.7	1176.0	1242.0	1397.7	1593.2	1833.2	1950.0	1997.7
17.5°	770.0	832.8	910.6	1017.9	1150.6	1325.4	1584.5	1928.5	2056.5	2112.1
20°	646.0	681.0	771.6	882.0	1048.1	1251.5	1587.6	2069.2	2256.7	2281.3
22.5°	597.6	605.5	641.3	743.0	924.9	1176.0	1644.1	2268.6	2481.6	2562.6
25°	560.2	558.6	568.2	636.5	835.1	1146.6	1699.7	2452.2	2731.1	2819.3
27.5°	539.5	523.7	524.4	588.8	771.6	1099.0	1771.2	2662.8	3014.0	3052.9
30°	529.2	526.0	516.5	542.7	702.4	1027.4	1783.1	2870.2	3180.8	3237.3
32.5°	522.9	491.9	479.9	489.5	637.3	949.6	1827.6	3006.8	3387.4	3362.8
35°	491.1	463.3	455.3	464.9	591.2	905.9	1798.2	3126.0	3542.4	3583.7
37.5°	479.2	454.5	438.6	430.7	548.3	869.3	1783.1	3309.6	3692.6	3791.9
40°	468.0	441.8	422.7	414.8	514.9	820.8	1778.4	3451.0	3865.8	3925.4
42.5°	455.3	438.6	417.2	402.9	474.4	772.4	1723.5	3494.7	3919.0	3983.4
44°	451.3	425.9	403.7	398.9	458.5	747.7	1712.4	3534.5	3965.1	4062.9
45°	447.4	423.5	398.1	391.7	452.9	734.2	1697.3	3544.0	4041.4	4059.7
47.5°	436.2	421.1	396.5	379.0	441.0	704.8	1652.0	3490.0	3963.5	3966.7
50°	427.5	410.0	384.6	350.4	425.1	680.2	1672.7	3470.1	3776.0	3783.2
52.5°	418.0	391.7	377.4	318.6	398.9	659.5	1716.4	3559.9	3797.5	3795.9
55°	406.8	378.2	343.3	291.6	355.2	633.3	1822.1	3737.1	3996.1	4023.1
57.5°	389.4	364.7	314.7	267.8	305.1	583.2	1787.9	3397.8	3676.7	3681.5
60°	366.3	343.3	285.3	249.5	250.3	460.1	1598.8	2647.7	2901.1	2970.3
62.5°	344.1	331.4	260.6	223.3	213.0	366.3	1351.6	2200.3	2490.3	2547.5
65°	317.8	286.9	239.2	203.4	182.8	256.7	957.5	1644.1	1942.8	2019.9
67.5°	284.5	251.1	210.6	178.8	156.5	171.6	494.3	934.5	1237.2	1282.5
70°	248.7	217.7	177.2	151.0	126.3	118.4	217.7	445.8	676.2	723.1
72.5°	204.2	175.6	141.4	119.2	94.6	81.8	73.1	119.2	240.0	278.9
75°	147.8	127.9	106.5	85.0	66.7	52.4	42.9	35.8	39.7	42.9
77.5°	108.9	93.0	78.7	60.4	46.9	37.3	29.4	22.2	21.5	20.7
80°	85.0	75.5	62.8	48.5	36.6	27.8	20.7	15.1	13.5	13.5
82.5°	66.7	62.0	51.7	39.7	30.2	22.2	15.1	10.3	8.7	8.7
85°	25.4	25.4	37.3	32.6	23.0	15.9	10.3	5.6	4.8	4.8
87.5°	6.4	6.4	6.4	6.4	5.6	4.8	4.8	2.4	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)