

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: P527406

Luminaire Tested: **GALN-SA2B-830-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527406
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-SA2B-830-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 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: 6772 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 82
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



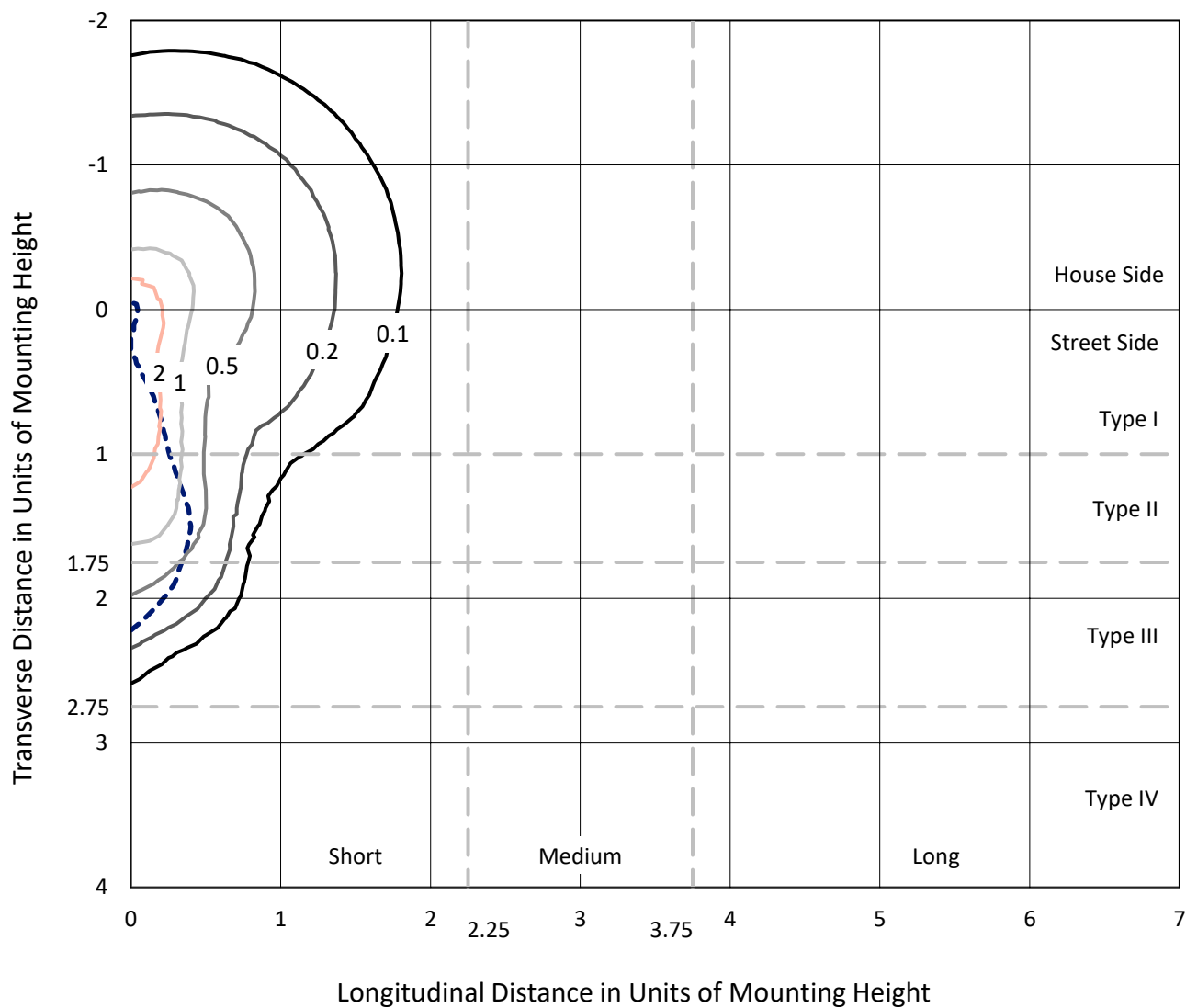
REPORT NUMBER: P527406

CATALOG NUMBER: GALN-SA2B-830-U-SLR-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



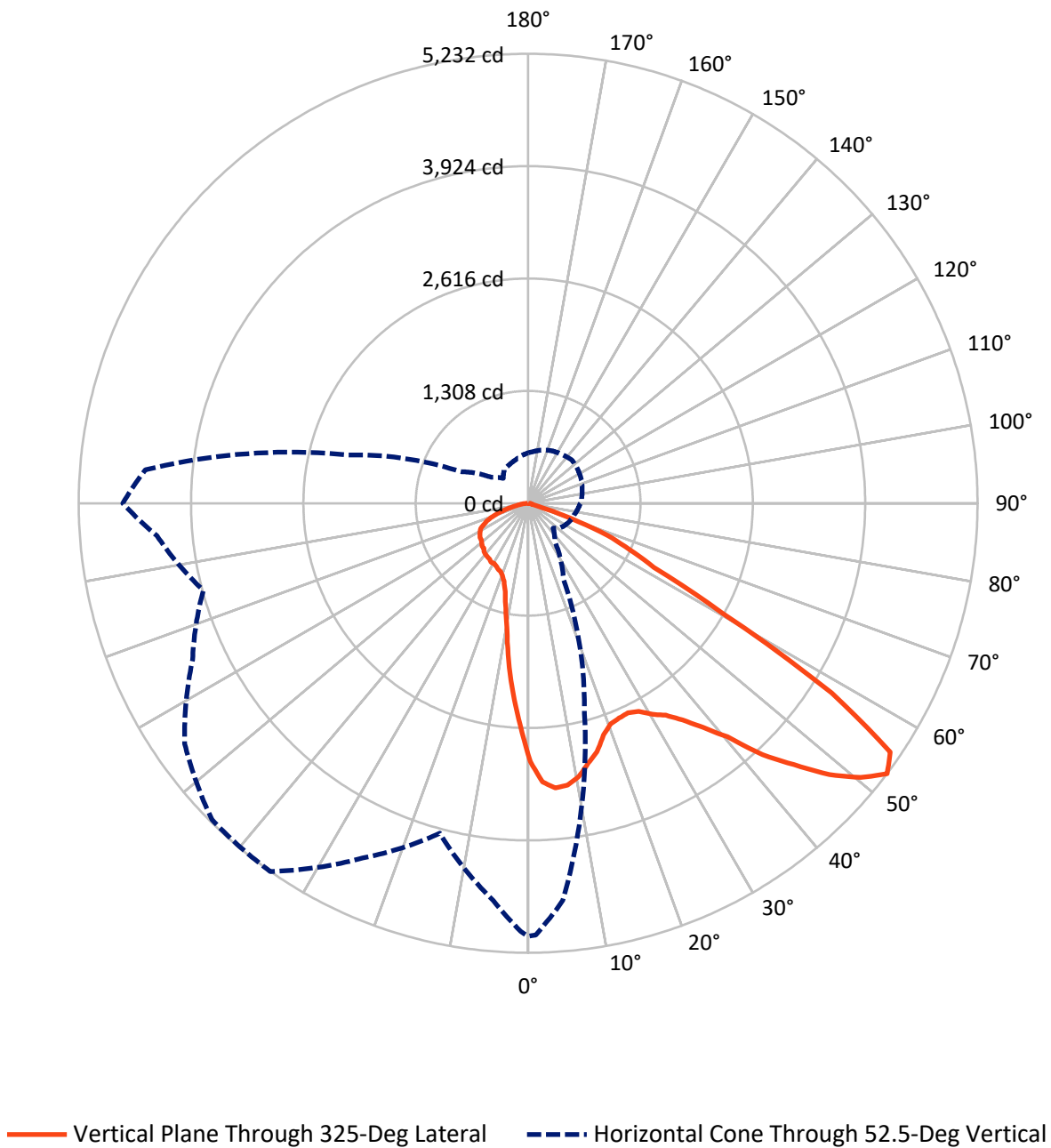
Based on 25 foot mounting height. Maximum calculated value = 4.8 fc

Type III - Short - N/A

REPORT NUMBER: P527406

CATALOG NUMBER: GALN-SA2B-830-U-SLR-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P527406

CATALOG NUMBER: GALN-SA2B-830-U-SLR-GRSWH

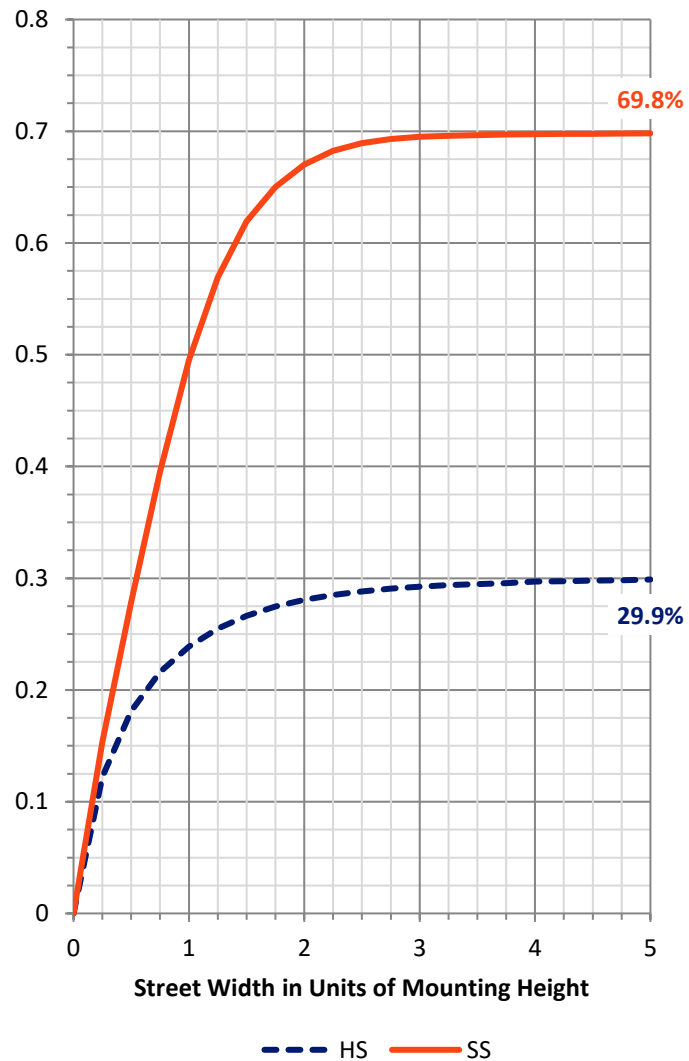
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2041.5	0.0	2041.5
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	4730.5	0.0	4730.5
	% Fixture	69.9	0.0	69.9
Total	Lumens	6772.0	0.0	6772.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.3	3.4
10°-20°	497.1	7.3
20°-30°	751.0	11.1
30°-40°	1085.3	16.0
40°-50°	1444.3	21.3
50°-60°	1615.5	23.9
60°-70°	910.5	13.4
70°-80°	203.0	3.0
80°-90°	36.1	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°	6772.0	100.0
0°-180°	6772.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527406

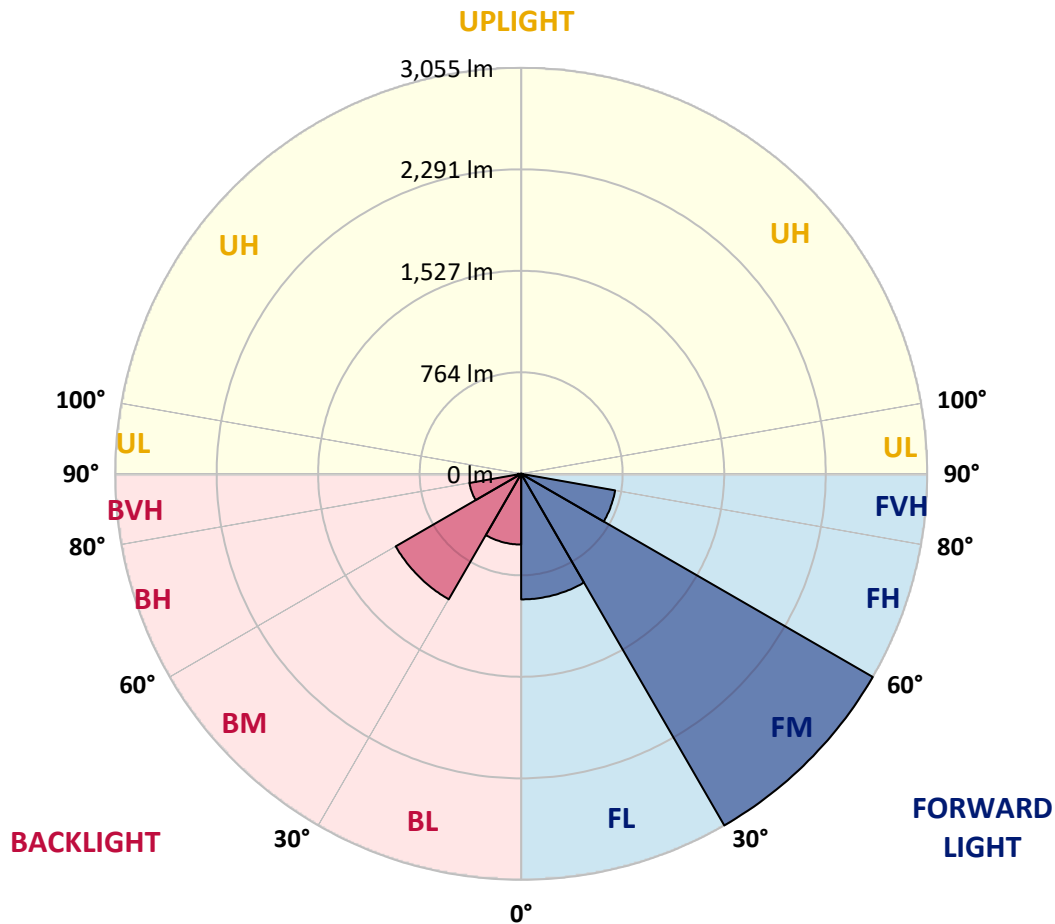
CATALOG NUMBER: GALN-SA2B-830-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	945.0	14.0			
FM	(30°-60°)	3054.7	45.1			
FH	(60°-80°)	717.7	10.6			G1/1800
FVH	(80°-90°)	13.1	0.2			G1/100
BL	(0°-30°)	532.4	7.9	B2/1000		
BM	(30°-60°)	1090.4	16.1	B2/2500		
BH	(60°-80°)	395.7	5.8	B1/500		G1/500
BVH	(80°-90°)	23.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type III Short



REPORT NUMBER: P527406

CATALOG NUMBER: GALN-SA2B-830-U-SLR-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5
2.5°	3055.5	3104.6	3051.6	2957.4	2890.6	2829.8	2766.0	2753.2	2669.8	2655.0	2594.2
5°	2881.8	2871.0	2806.2	2682.5	2546.1	2422.4	2331.1	2242.8	2182.9	2113.2	2108.3
7.5°	2670.8	2607.9	2570.6	2383.2	2214.3	2020.0	1936.6	1802.1	1759.9	1697.1	1664.7
10°	2482.3	2436.2	2348.8	2161.3	1925.8	1797.2	1707.9	1635.2	1586.2	1521.4	1439.9
12.5°	2389.1	2370.4	2272.2	1981.7	1807.0	1669.6	1606.8	1536.1	1452.7	1348.6	1308.4
15°	2405.7	2342.9	2268.3	1947.4	1705.9	1573.4	1473.3	1384.9	1278.0	1178.8	1120.9
17.5°	2530.4	2482.3	2333.1	1969.0	1667.6	1476.2	1294.6	1164.1	1067.9	978.6	938.3
20°	2775.8	2706.1	2538.2	1996.4	1585.2	1340.8	1132.7	971.7	868.7	821.5	807.8
22.5°	3047.7	3006.4	2738.5	2058.3	1519.4	1215.1	960.9	799.9	761.7	748.9	774.4
25°	3378.4	3271.5	3049.6	2159.4	1468.4	1108.2	815.7	726.3	706.7	719.5	748.9
27.5°	3629.7	3601.2	3267.5	2254.6	1398.7	979.6	734.2	675.3	681.2	693.9	721.4
30°	3928.1	3783.8	3478.6	2320.3	1335.9	891.2	677.3	661.6	667.4	689.0	702.8
32.5°	4107.7	4053.7	3611.1	2419.5	1263.2	814.7	633.1	618.4	627.2	659.6	692.0
35°	4336.4	4229.4	3775.0	2445.0	1212.2	784.2	601.7	590.9	611.5	634.1	670.4
37.5°	4603.4	4529.8	4001.7	2427.3	1184.7	752.8	575.2	570.3	585.0	616.4	658.6
40°	4761.4	4738.8	4120.5	2438.1	1141.5	725.4	544.8	550.6	581.1	605.6	646.8
42.5°	4913.6	4766.3	4296.2	2434.2	1114.0	688.1	547.7	540.8	564.4	592.8	632.1
45°	4946.9	4800.7	4337.4	2406.7	1080.7	651.7	525.1	528.1	556.5	591.9	617.4
47.5°	4925.3	4817.4	4414.0	2398.9	1049.3	626.2	491.7	527.1	543.8	572.2	608.6
50°	4910.6	4904.7	4478.7	2436.2	1007.1	586.0	451.5	514.3	531.0	559.5	598.7
52.5°	5040.2	5027.4	4640.7	2534.3	973.7	542.8	410.3	481.9	522.2	549.7	587.9
55°	5118.7	5062.7	4918.5	2655.0	917.7	485.9	381.8	441.7	500.6	525.1	564.4
57.5°	4604.4	4566.1	4449.3	2478.4	823.5	411.3	346.5	400.5	471.1	509.4	549.7
60°	3830.9	3771.1	3471.7	2106.4	607.6	320.0	324.9	368.1	463.3	478.0	525.1
62.5°	3612.0	3463.8	3056.5	1695.1	466.2	274.8	291.5	338.6	422.1	446.6	493.7
65°	2866.1	2756.1	2186.9	1224.0	312.1	238.5	266.0	305.3	364.1	412.2	455.4
67.5°	1794.2	1689.2	1167.0	579.1	217.9	204.2	237.5	278.8	326.9	370.0	418.1
70°	937.4	822.5	538.9	209.1	150.2	166.9	198.3	237.5	284.6	320.0	357.3
72.5°	349.4	283.7	175.7	90.3	104.0	127.6	161.0	189.4	222.8	266.0	286.6
75°	54.0	46.1	45.2	55.0	70.7	92.3	114.8	143.3	172.7	200.2	214.0
77.5°	25.5	24.5	27.5	36.3	47.1	65.8	83.4	110.9	134.5	152.1	160.0
80°	16.7	15.7	17.7	24.5	35.3	49.1	66.7	85.4	107.0	121.7	119.7
82.5°	9.8	10.8	10.8	16.7	24.5	35.3	48.1	64.8	79.5	92.3	84.4
85°	5.9	4.9	4.9	9.8	16.7	28.5	40.2	27.5	28.5	28.5	32.4
87.5°	2.0	2.0	2.0	1.0	2.0	2.0	2.9	4.9	5.9	6.9	8.8
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: P527406

CATALOG NUMBER: GALN-SA2B-830-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5
2.5°	2592.2	2622.7	2611.9	2573.6	2603.0	2607.9	2588.3	2656.0	2668.8	2648.2	2654.1
5°	2101.5	2109.3	2127.0	2164.3	2190.8	2222.2	2222.2	2224.2	2197.7	2264.4	2244.8
7.5°	1637.2	1642.1	1662.7	1742.2	1764.8	1824.7	1850.2	1832.5	1779.5	1756.9	1775.6
10°	1413.4	1384.9	1378.1	1387.9	1438.9	1464.4	1486.0	1480.2	1471.3	1453.7	1434.0
12.5°	1264.2	1243.6	1226.9	1203.4	1206.3	1230.8	1247.5	1233.8	1237.7	1241.6	1247.5
15°	1102.3	1087.5	1078.7	1043.4	1039.4	1056.1	1062.0	1069.9	1084.6	1085.6	1078.7
17.5°	930.5	917.7	937.4	957.0	943.3	944.2	955.0	961.9	958.0	940.3	931.5
20°	812.7	826.5	846.1	864.7	879.5	888.3	892.2	881.4	868.7	832.3	831.4
22.5°	778.4	796.0	812.7	841.2	854.9	877.5	856.9	832.3	814.7	797.0	776.4
25°	752.8	767.6	800.9	811.7	838.2	856.9	842.2	817.6	787.2	761.7	746.0
27.5°	734.2	750.9	772.5	801.9	822.5	833.3	818.6	808.8	777.4	746.9	724.4
30°	722.4	740.1	779.3	803.9	821.5	830.4	804.9	793.1	770.5	745.0	725.4
32.5°	714.6	730.3	763.6	795.0	806.8	806.8	810.7	797.0	765.6	722.4	705.7
35°	689.0	710.6	738.1	774.4	796.0	808.8	789.2	773.4	752.8	708.7	678.2
37.5°	674.3	689.0	724.4	758.7	777.4	791.1	783.3	755.8	728.3	692.0	667.4
40°	658.6	682.2	713.6	746.0	766.6	780.3	774.4	742.0	708.7	674.3	657.6
42.5°	647.8	663.5	695.9	732.2	756.8	783.3	765.6	725.4	701.8	654.7	636.0
45°	639.0	664.5	698.9	713.6	739.1	766.6	735.2	710.6	683.1	648.8	633.1
47.5°	628.2	651.7	674.3	713.6	725.4	738.1	732.2	693.0	669.4	632.1	621.3
50°	624.3	633.1	674.3	695.9	712.6	725.4	709.6	680.2	657.6	619.3	595.8
52.5°	608.6	625.2	651.7	680.2	700.8	716.5	691.0	672.4	641.9	601.7	587.0
55°	588.9	598.7	645.8	675.3	686.1	696.9	687.1	656.6	625.2	584.0	569.3
57.5°	563.4	586.0	624.3	665.5	679.2	685.1	669.4	644.9	605.6	569.3	545.7
60°	536.9	560.5	602.7	636.0	649.8	671.4	647.8	633.1	587.9	547.7	522.2
62.5°	510.4	536.9	568.3	610.5	622.3	631.1	625.2	604.6	568.3	523.2	491.7
65°	479.0	498.6	537.9	559.5	567.3	587.9	567.3	559.5	527.1	483.9	457.4
67.5°	431.9	448.6	482.9	503.5	509.4	518.2	517.3	508.4	472.1	442.7	419.1
70°	377.9	392.6	414.2	438.7	441.7	452.5	442.7	440.7	417.2	376.9	364.1
72.5°	303.3	317.0	345.5	356.3	357.3	361.2	356.3	349.4	343.5	301.3	288.6
75°	232.6	240.5	254.2	264.0	264.0	268.9	266.0	259.1	243.4	216.9	204.2
77.5°	162.0	169.8	187.5	193.4	192.4	194.3	185.5	178.6	155.1	141.3	130.5
80°	117.8	122.7	131.5	135.5	136.4	139.4	128.6	122.7	109.0	93.2	88.3
82.5°	85.4	88.3	89.3	94.2	94.2	89.3	86.4	80.5	70.7	60.9	56.9
85°	35.3	36.3	37.3	43.2	44.2	53.0	49.1	46.1	40.2	34.4	31.4
87.5°	8.8	9.8	12.8	10.8	12.8	12.8	13.7	15.7	15.7	12.8	12.8
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: P527406

CATALOG NUMBER: GALN-SA2B-830-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5
2.5°	2676.6	2684.5	2784.6	2797.4	2846.4	2896.5	2997.6	3070.2	3129.1	3167.4	3178.2
5°	2265.4	2315.4	2361.6	2436.2	2503.9	2600.1	2711.0	2848.4	3021.2	3109.5	3144.8
7.5°	1773.6	1832.5	1899.3	1971.9	2071.0	2243.8	2392.0	2551.0	2771.9	2863.1	3001.5
10°	1447.8	1513.5	1601.9	1657.8	1777.6	1942.5	2115.2	2298.8	2509.8	2641.3	2801.3
12.5°	1279.9	1333.9	1415.4	1533.2	1622.5	1729.5	1858.0	2089.7	2392.0	2516.7	2626.6
15°	1094.4	1154.3	1248.5	1379.1	1486.0	1613.6	1757.9	2010.2	2332.1	2524.5	2617.7
17.5°	941.3	984.5	1083.6	1196.5	1319.2	1458.6	1665.7	2006.3	2394.9	2641.3	2793.4
20°	835.3	841.2	895.2	991.3	1158.2	1339.8	1608.7	1986.6	2596.2	2842.5	3034.9
22.5°	768.5	762.7	763.6	845.1	961.9	1223.0	1519.4	2053.4	2824.9	3162.5	3292.1
25°	735.2	719.5	709.6	727.3	833.3	1084.6	1451.7	2141.7	3071.2	3426.5	3585.5
27.5°	717.5	690.0	670.4	673.3	750.9	1014.9	1409.5	2180.0	3315.6	3794.6	3850.6
30°	710.6	676.3	647.8	638.0	689.0	917.7	1319.2	2245.7	3534.5	3996.8	4044.9
32.5°	686.1	643.9	616.4	607.6	628.2	832.3	1254.4	2292.9	3727.9	4216.7	4200.0
35°	657.6	622.3	587.9	571.3	586.0	777.4	1202.4	2270.3	3955.6	4387.5	4378.6
37.5°	654.7	608.6	580.1	552.6	551.6	709.6	1131.7	2291.9	4100.8	4693.7	4573.0
40°	629.2	599.7	562.4	539.8	527.1	675.3	1063.0	2240.8	4313.8	4817.4	4698.6
42.5°	630.1	586.0	553.6	527.1	514.3	625.2	1015.9	2227.1	4388.4	5018.6	4757.5
45°	614.4	571.3	543.8	512.4	505.5	587.0	970.7	2163.3	4520.0	5028.4	4683.9
47.5°	598.7	560.5	531.0	493.7	478.0	573.2	935.4	2110.3	4451.3	4936.1	4581.8
50°	587.9	543.8	516.3	489.8	445.6	549.7	889.3	2097.5	4355.1	4811.5	4392.4
52.5°	569.3	530.0	501.6	481.0	410.3	528.1	871.6	2172.1	4472.8	4718.2	4337.4
55°	551.6	511.4	475.1	434.8	380.8	471.1	822.5	2241.8	4644.6	4933.2	4586.7
57.5°	533.0	494.7	455.4	407.3	352.4	412.2	771.5	2254.6	4322.7	4559.2	4354.1
60°	508.4	459.4	429.9	367.1	321.9	341.6	611.5	1987.6	3352.9	3807.4	3814.2
62.5°	481.0	427.9	402.4	328.8	290.5	294.5	498.6	1670.6	2719.8	3151.7	3339.2
65°	444.6	393.6	363.2	304.3	268.0	255.2	365.1	1224.0	2066.1	2556.9	2769.9
67.5°	397.5	349.4	311.1	265.0	239.5	218.9	249.3	689.0	1220.0	1716.7	1781.5
70°	347.5	306.2	266.0	227.7	199.3	184.5	182.6	305.3	583.0	923.6	1051.2
72.5°	273.8	244.4	212.0	183.5	164.9	143.3	130.5	126.6	197.3	375.9	519.2
75°	196.3	171.8	153.1	134.5	120.7	109.0	99.1	90.3	82.4	94.2	129.6
77.5°	123.7	114.8	100.1	95.2	87.4	84.4	80.5	75.6	69.7	65.8	65.8
80°	83.4	77.5	72.6	71.7	68.7	67.7	68.7	63.8	57.9	53.0	55.0
82.5°	55.9	55.0	54.0	53.0	54.0	55.0	56.9	55.9	51.0	48.1	49.1
85°	33.4	35.3	37.3	39.3	43.2	38.3	31.4	26.5	23.6	21.6	20.6
87.5°	12.8	17.7	15.7	14.7	15.7	14.7	13.7	12.8	10.8	9.8	9.8
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: P527406

CATALOG NUMBER: GALN-SA2B-830-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5
2.5°	3249.9	3269.5	3286.2	3282.2	3247.9	3201.8	3183.1	3087.9	3068.3	3055.5
5°	3294.0	3407.9	3432.4	3417.7	3328.4	3215.5	3105.6	2966.2	2884.7	2881.8
7.5°	3212.6	3352.9	3397.1	3430.5	3311.7	3115.4	2926.9	2717.9	2666.8	2670.8
10°	3005.5	3229.2	3338.2	3372.5	3236.1	3066.3	2805.2	2593.2	2484.3	2482.3
12.5°	2890.6	3066.3	3096.7	3144.8	3104.6	2932.8	2734.6	2497.0	2391.0	2389.1
15°	2788.5	2904.4	2913.2	2980.9	3002.5	2886.7	2753.2	2500.0	2414.6	2405.7
17.5°	2877.9	2797.4	2764.0	2772.8	2836.6	2878.8	2861.2	2666.8	2579.5	2530.4
20°	2937.7	2758.1	2657.0	2666.8	2742.4	2896.5	3022.1	2908.3	2769.9	2775.8
22.5°	3097.7	2764.0	2606.0	2595.2	2714.9	2988.8	3203.7	3213.5	3080.1	3047.7
25°	3337.2	2831.7	2590.3	2587.3	2702.2	3087.9	3415.7	3574.7	3438.3	3378.4
27.5°	3529.6	2937.7	2639.3	2649.2	2742.4	3168.4	3596.3	3807.4	3703.3	3629.7
30°	3698.4	3047.7	2708.1	2662.9	2850.4	3210.6	3673.9	4072.4	3989.0	3928.1
32.5°	3768.1	3203.7	2817.0	2742.4	2939.7	3261.6	3834.9	4329.5	4257.9	4107.7
35°	3885.9	3291.1	2875.9	2870.0	3095.8	3384.3	3910.4	4499.3	4469.9	4336.4
37.5°	3980.1	3379.4	3085.0	3020.2	3309.7	3590.4	4032.1	4733.9	4666.2	4603.4
40°	4052.8	3537.4	3280.3	3365.7	3572.8	3777.9	4144.0	4748.7	4944.0	4761.4
42.5°	3986.0	3678.8	3601.2	3805.4	4001.7	3991.9	4156.8	4862.5	5008.8	4913.6
45°	3969.3	3918.3	4108.7	4294.2	4339.4	4169.6	4065.5	4736.9	4989.1	4946.9
47.5°	3929.1	4153.8	4485.6	4787.9	4719.2	4288.3	3956.6	4714.3	5000.9	4925.3
50°	3915.3	4204.9	4764.4	5058.8	5017.6	4391.4	3905.5	4569.0	4917.5	4910.6
52.5°	3914.4	4309.9	4880.2	5206.1	5231.6	4554.3	3975.2	4642.7	4982.3	5040.2
55°	3958.5	4276.5	4865.5	5124.6	5114.8	4481.7	3983.1	4691.7	5061.8	5118.7
57.5°	3733.8	3830.9	4015.5	4220.6	4167.6	3712.2	3557.1	4337.4	4645.6	4604.4
60°	3224.3	2920.1	2712.0	2702.2	2599.1	2456.8	2911.2	3871.2	3871.2	3830.9
62.5°	2823.9	1916.9	1647.0	1570.5	1644.1	1808.0	2808.2	3765.2	3658.2	3612.0
65°	2469.5	1463.5	1190.6	1169.0	1296.6	1544.0	2539.2	3207.7	3019.2	2866.1
67.5°	1589.1	1071.8	885.3	847.1	1001.2	1133.7	1690.2	1972.9	1854.1	1794.2
70°	1024.7	697.9	492.7	462.3	522.2	698.9	1079.7	1150.4	977.6	937.4
72.5°	484.9	301.3	172.7	142.3	160.0	267.0	427.0	459.4	381.8	349.4
75°	154.1	110.9	70.7	60.9	57.9	68.7	98.2	75.6	55.0	54.0
77.5°	68.7	65.8	55.9	47.1	41.2	34.4	28.5	23.6	24.5	25.5
80°	56.9	52.0	46.1	41.2	34.4	26.5	20.6	15.7	15.7	16.7
82.5°	50.1	45.2	40.2	34.4	29.4	21.6	15.7	10.8	9.8	9.8
85°	21.6	25.5	27.5	29.4	23.6	17.7	10.8	6.9	5.9	5.9
87.5°	8.8	7.9	6.9	5.9	4.9	4.9	3.9	2.9	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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