

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: P527873

Luminaire Tested: **GALN-SA2D-830-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-830-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6834 lumens
Efficiency: N/A
Efficacy: 54.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 125
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



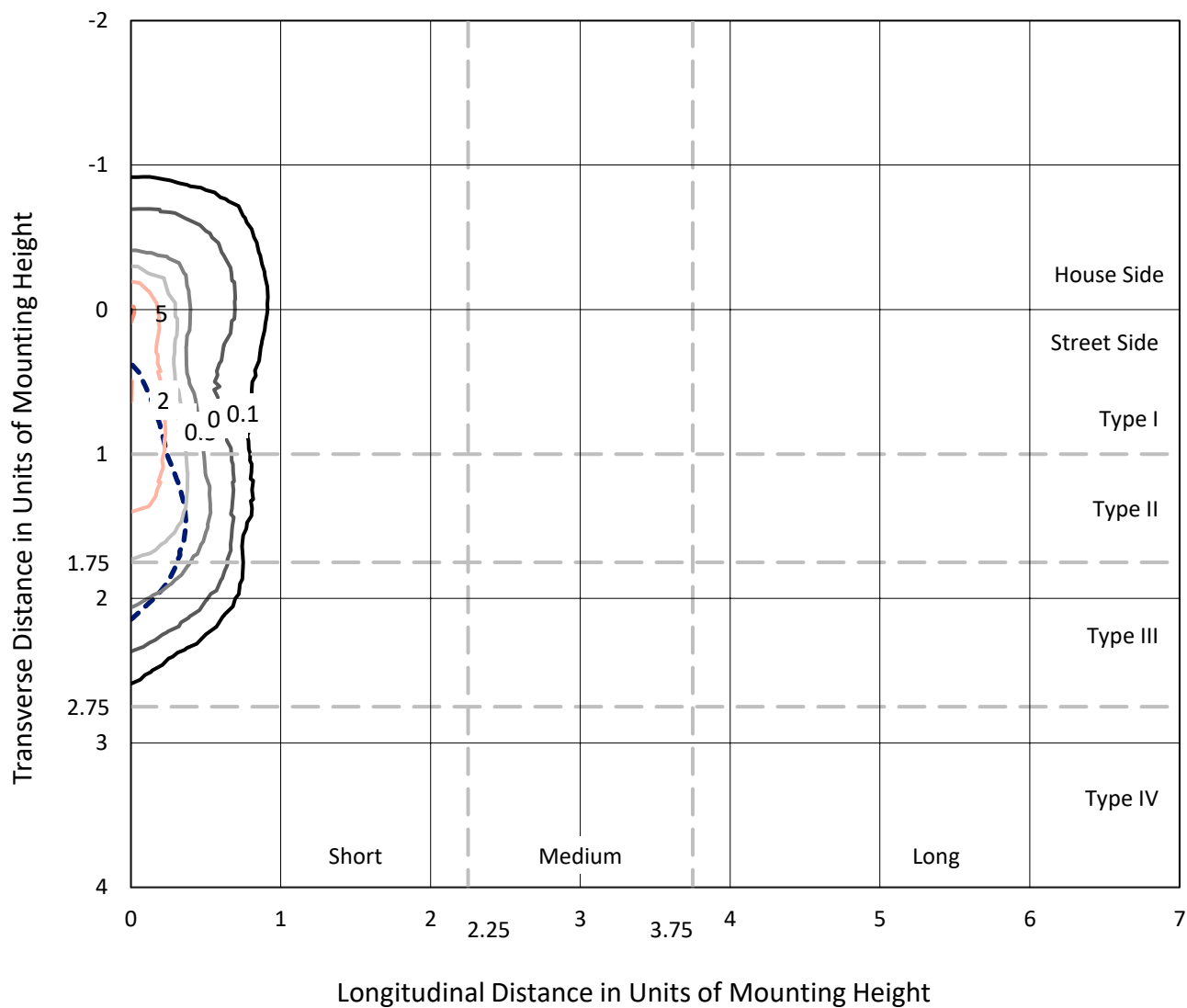
REPORT NUMBER: P527873

CATALOG NUMBER: GALN-SA2D-830-U-SLR-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



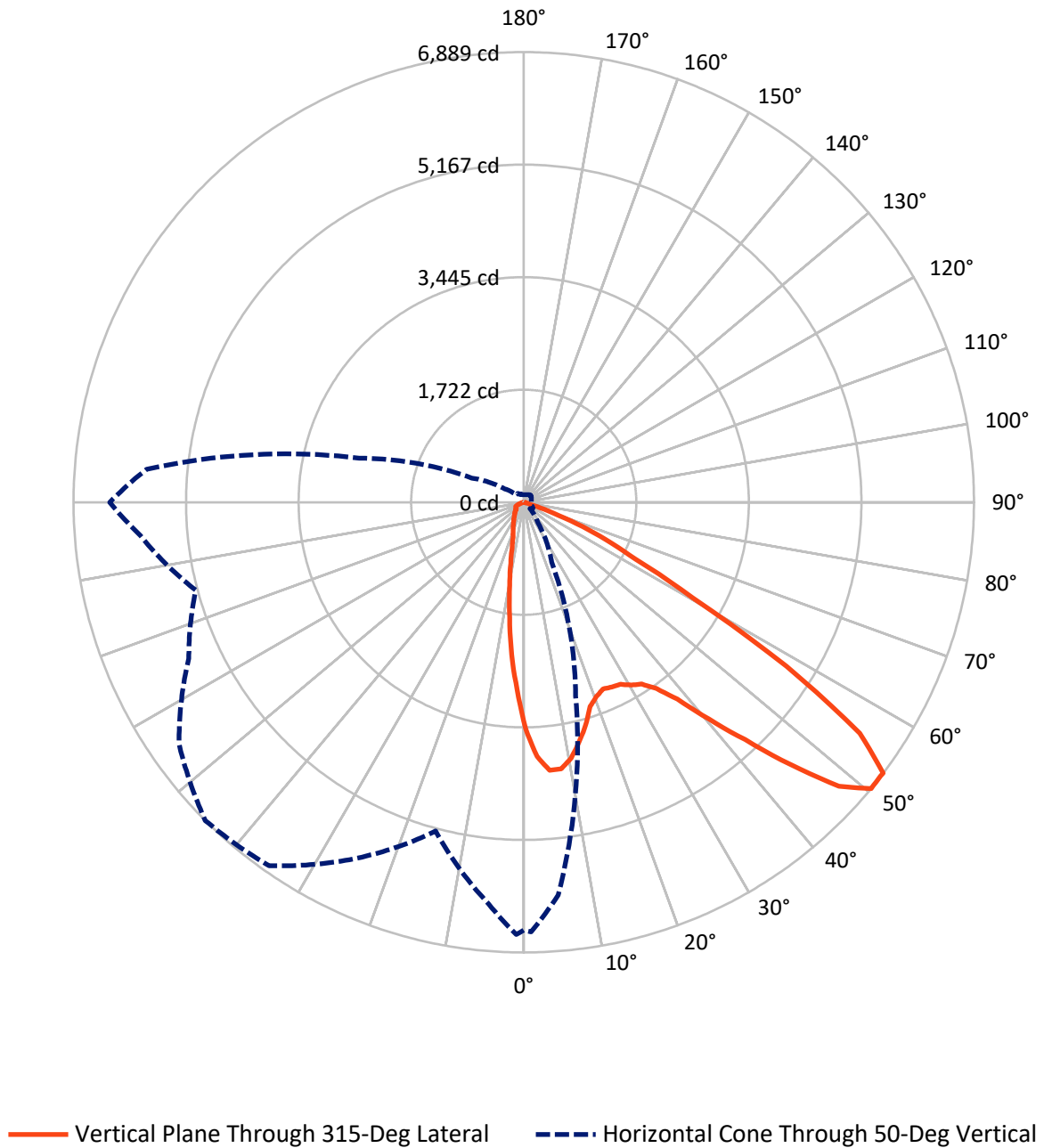
Based on 25 foot mounting height. Maximum calculated value = 5.5 fc

Type III - Short - N/A

REPORT NUMBER: P527873

CATALOG NUMBER: GALN-SA2D-830-U-SLR-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P527873

CATALOG NUMBER: GALN-SA2D-830-U-SLR-GRSBK

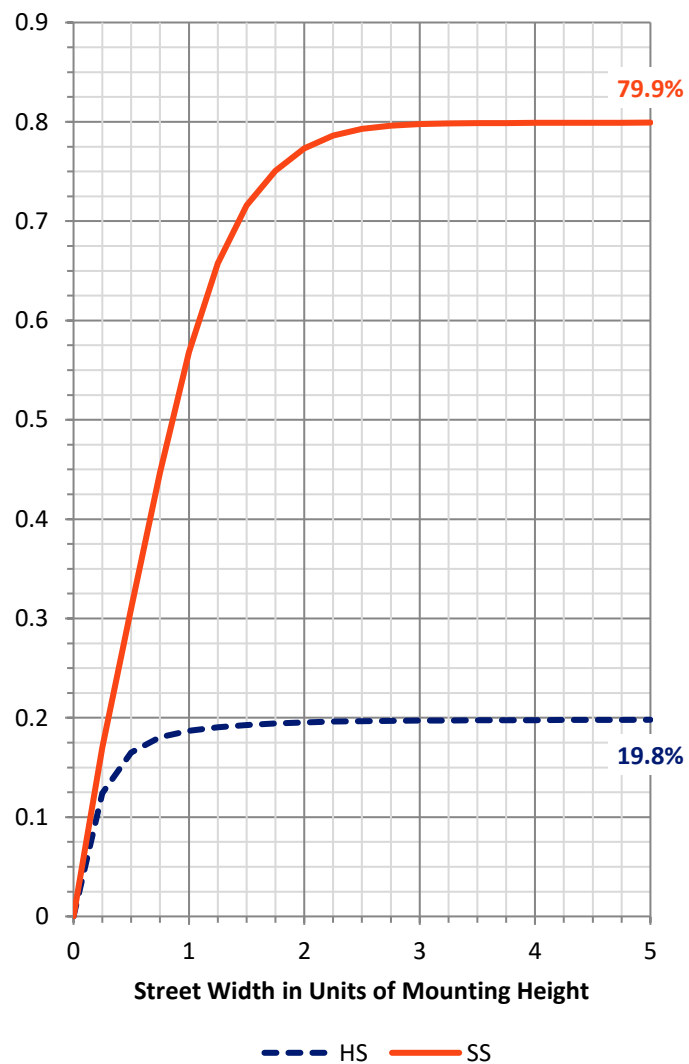
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1368.9	0.0	1368.9
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	5465.2	0.0	5465.2
	% Fixture	80.0	0.0	80.0
Total	Lumens	6834.0	0.0	6834.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.6	3.7
10°-20°	502.1	7.3
20°-30°	754.2	11.0
30°-40°	1132.1	16.6
40°-50°	1591.1	23.3
50°-60°	1716.3	25.1
60°-70°	796.9	11.7
70°-80°	75.0	1.1
80°-90°	13.8	0.2
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°	6834.0	100.0
0°-180°	6834.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527873

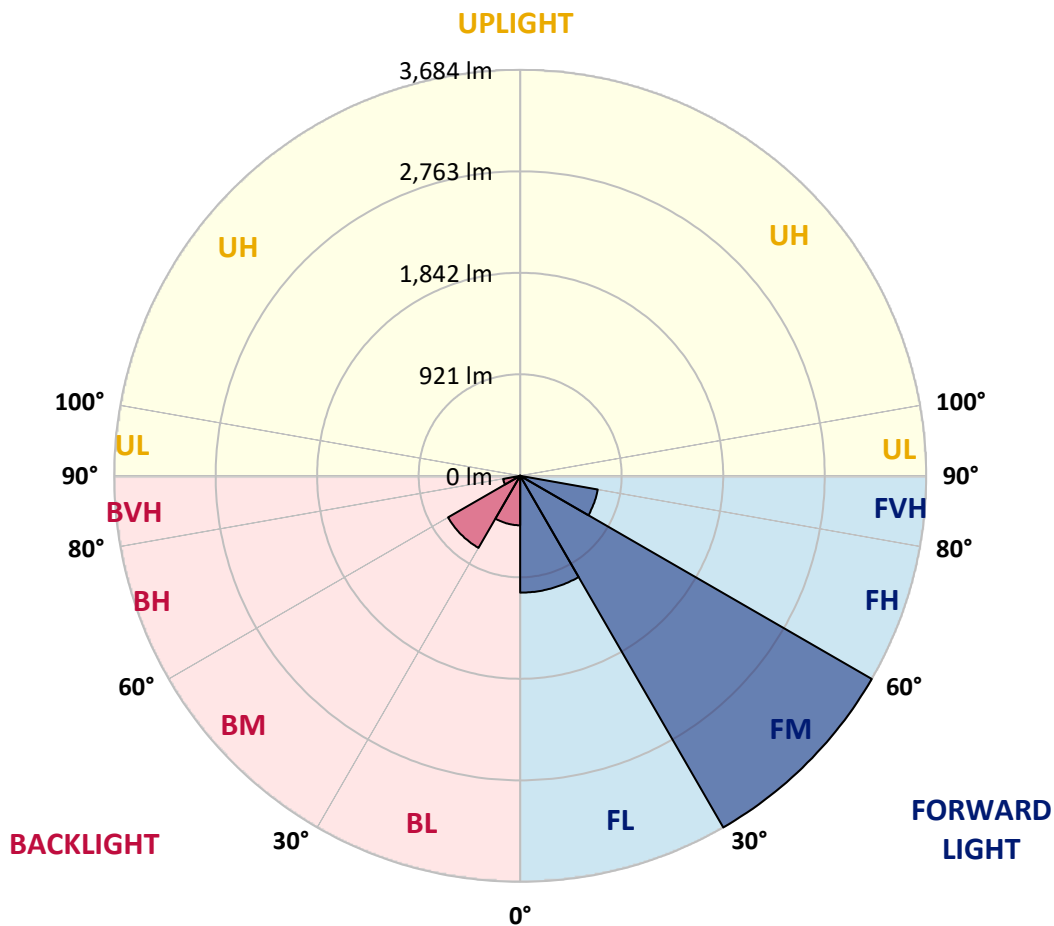
CATALOG NUMBER: GALN-SA2D-830-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1060.2	15.5			
FM	(30°-60°)	3684.0	53.9			
FH	(60°-80°)	714.7	10.5			G1/1800
FVH	(80°-90°)	6.2	0.1			G0/10
BL	(0°-30°)	448.7	6.6	B1/500		
BM	(30°-60°)	755.4	11.1	B1/1000		
BH	(60°-80°)	157.2	2.3	B1/500		G1/500
BVH	(80°-90°)	7.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short



REPORT NUMBER: P527873

CATALOG NUMBER: GALN-SA2D-830-U-SLR-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3465.7	3465.7	3465.7	3465.7	3465.7	3465.7	3465.7	3465.7	3465.7	3465.7	3465.7
2.5°	3602.6	3547.1	3476.5	3418.2	3331.5	3156.6	3109.1	3052.1	3004.7	2941.0	2851.5
5°	3275.9	3258.2	3225.7	3006.0	2847.4	2635.9	2462.3	2389.1	2292.8	2214.2	2157.2
7.5°	3026.4	2955.9	2852.8	2631.8	2378.3	2151.8	1959.3	1846.7	1719.3	1675.9	1598.6
10°	2759.3	2775.5	2623.7	2313.2	2006.7	1823.7	1704.4	1595.9	1480.7	1404.7	1294.9
12.5°	2673.8	2621.0	2504.4	2120.6	1858.9	1688.1	1543.0	1408.8	1286.8	1164.7	1059.0
15°	2729.4	2648.1	2485.4	2080.0	1745.1	1532.2	1350.5	1168.8	1056.3	900.3	790.5
17.5°	2928.8	2863.7	2645.4	2123.4	1686.7	1383.0	1113.2	926.1	753.9	612.9	557.3
20°	3261.0	3168.8	2894.9	2178.9	1600.0	1202.7	903.0	672.5	509.8	450.2	419.0
22.5°	3586.4	3536.2	3190.5	2286.1	1522.7	1042.7	678.0	452.9	381.0	370.2	349.8
25°	4206.0	4055.5	3642.0	2480.0	1463.0	892.2	511.2	364.7	322.7	314.6	317.3
27.5°	4574.8	4448.7	4059.6	2608.8	1396.6	776.9	432.5	334.9	306.4	288.8	282.0
30°	4928.7	4782.3	4267.0	2684.7	1254.2	654.9	383.7	321.4	314.6	288.8	280.7
32.5°	5201.3	5057.5	4566.7	2798.6	1195.9	576.3	315.9	250.8	233.2	230.5	254.9
35°	5618.9	5465.7	4823.0	2861.0	1151.2	535.6	273.9	223.7	203.4	195.3	196.6
37.5°	6008.0	5903.6	5060.2	2885.4	1103.7	523.4	245.4	200.7	183.0	177.6	176.3
40°	6333.4	6100.2	5285.3	2911.1	1083.4	500.3	227.8	183.0	170.8	162.7	162.7
42.5°	6482.6	6245.3	5537.5	2896.2	1077.9	463.7	227.8	168.1	158.6	150.5	149.1
45°	6450.1	6353.8	5650.1	2889.4	1077.9	427.1	207.5	164.1	150.5	139.7	136.9
47.5°	6534.1	6408.0	5791.1	2917.9	1056.3	401.3	174.9	172.2	142.4	128.8	126.1
50°	6549.0	6573.4	6036.5	3065.7	1008.8	368.8	136.9	169.5	136.9	116.6	113.9
52°	6646.7	6494.8	6111.1	3144.3	958.6	344.4	115.3	145.1	131.5	108.5	105.8
52.5°	6512.4	6611.4	6128.7	3172.8	964.1	328.1	111.2	142.4	128.8	108.5	101.7
55°	6361.9	6456.8	6056.8	3233.8	884.1	257.6	86.8	103.0	116.6	94.9	90.8
57.5°	5529.4	5625.7	5263.6	2961.3	720.0	181.7	71.9	77.3	103.0	88.1	84.1
60°	4915.2	4846.0	4417.5	2470.5	511.2	101.7	56.9	59.7	112.5	81.4	80.0
62.5°	4492.1	4344.3	3692.1	1907.8	311.9	67.8	44.7	46.1	86.8	75.9	75.9
65°	3323.3	3157.9	2452.8	1153.9	153.2	47.5	33.9	36.6	54.2	65.1	65.1
67.5°	1896.9	1833.2	1185.1	520.7	63.7	29.8	25.8	28.5	42.0	52.9	50.2
70°	871.8	782.4	455.6	109.8	29.8	20.3	20.3	23.1	33.9	39.3	36.6
72.5°	254.9	241.4	111.2	17.6	12.2	12.2	13.6	17.6	25.8	29.8	27.1
75°	19.0	12.2	8.1	5.4	5.4	8.1	10.8	17.6	25.8	28.5	23.1
77.5°	1.4	2.7	1.4	1.4	4.1	8.1	12.2	21.7	33.9	35.3	25.8
80°	1.4	1.4	0.0	1.4	4.1	8.1	13.6	24.4	38.0	40.7	21.7
82.5°	0.0	0.0	0.0	1.4	5.4	10.8	16.3	25.8	35.3	43.4	23.1
85°	0.0	0.0	0.0	1.4	8.1	14.9	19.0	6.8	4.1	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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: P527873

CATALOG NUMBER: GALN-SA2D-830-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3465.7	3465.7	3465.7	3465.7	3465.7	3465.7	3465.7	3465.7	3465.7	3465.7	3465.7
2.5°	2915.2	2879.9	2866.4	2878.6	2874.5	2870.5	2945.0	2928.8	2926.0	2950.5	2945.0
5°	2188.4	2126.1	2296.9	2227.8	2299.6	2343.0	2351.1	2355.2	2405.4	2352.5	2421.7
7.5°	1559.3	1575.6	1574.2	1620.3	1703.0	1776.2	1819.6	1785.7	1783.0	1776.2	1746.4
10°	1246.1	1217.6	1212.2	1201.3	1227.1	1289.5	1342.3	1300.3	1270.5	1311.2	1299.0
12.5°	1018.3	979.0	957.3	913.9	915.2	957.3	957.3	957.3	987.1	1010.2	1027.8
15°	781.0	748.5	748.5	705.1	695.6	696.9	718.6	721.3	768.8	782.4	789.1
17.5°	546.4	528.8	549.1	566.8	555.9	558.6	566.8	569.5	576.3	570.8	584.4
20°	420.3	417.6	423.0	454.2	477.3	490.8	481.3	467.8	459.7	440.7	440.7
22.5°	356.6	362.0	371.5	397.3	427.1	435.2	424.4	393.2	368.8	366.1	367.5
25°	317.3	322.7	337.6	353.9	370.2	383.7	372.9	349.8	336.3	324.1	324.1
27.5°	292.9	295.6	303.7	315.9	329.5	340.3	336.3	324.1	309.1	303.7	291.5
30°	273.9	278.0	287.5	290.2	302.4	307.8	301.0	298.3	288.8	282.0	278.0
32.5°	264.4	263.0	269.8	272.5	273.9	278.0	269.8	273.9	272.5	261.7	257.6
35°	199.3	210.2	227.8	242.7	246.8	252.2	250.8	245.4	230.5	218.3	203.4
37.5°	179.0	185.8	195.3	207.5	223.7	230.5	227.8	214.2	196.6	188.5	185.8
40°	165.4	169.5	177.6	185.8	202.0	214.2	204.7	192.5	179.0	172.2	168.1
42.5°	153.2	154.6	158.6	166.8	179.0	198.0	181.7	165.4	160.0	155.9	153.2
45°	139.7	139.7	145.1	149.1	162.7	180.3	164.1	149.1	146.4	143.7	142.4
47.5°	128.8	130.2	132.9	138.3	149.1	161.4	150.5	138.3	131.5	130.2	127.5
50°	115.3	116.6	122.0	127.5	141.0	147.8	141.0	127.5	120.7	116.6	116.6
52°	104.4	108.5	113.9	124.7	134.2	145.1	136.9	122.0	113.9	109.8	107.1
52.5°	103.0	105.8	111.2	123.4	134.2	143.7	135.6	120.7	111.2	108.5	105.8
55°	92.2	96.3	105.8	120.7	132.9	143.7	132.9	119.3	105.8	99.0	96.3
57.5°	88.1	90.8	103.0	122.0	131.5	143.7	132.9	119.3	105.8	93.6	90.8
60°	84.1	89.5	103.0	118.0	130.2	145.1	134.2	118.0	103.0	88.1	88.1
62.5°	80.0	84.1	101.7	115.3	124.7	139.7	128.8	115.3	99.0	84.1	82.7
65°	69.2	75.9	89.5	96.3	107.1	120.7	109.8	100.3	86.8	74.6	73.2
67.5°	52.9	55.6	66.4	74.6	81.4	93.6	88.1	75.9	66.4	56.9	56.9
70°	36.6	39.3	47.5	51.5	58.3	65.1	61.0	51.5	44.7	39.3	38.0
72.5°	25.8	27.1	29.8	32.5	35.3	38.0	36.6	29.8	25.8	24.4	23.1
75°	20.3	23.1	24.4	23.1	21.7	20.3	20.3	17.6	14.9	13.6	13.6
77.5°	20.3	21.7	20.3	17.6	14.9	13.6	12.2	10.8	8.1	6.8	8.1
80°	17.6	17.6	17.6	14.9	13.6	12.2	10.8	9.5	8.1	6.8	6.8
82.5°	19.0	19.0	17.6	14.9	14.9	12.2	12.2	10.8	9.5	6.8	6.8
85°	0.0	0.0	0.0	2.7	6.8	12.2	12.2	10.8	9.5	8.1	8.1
87.5°	0.0	0.0	0.0	0.0	1.4	2.7	5.4	6.8	8.1	8.1	8.1
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: P527873

CATALOG NUMBER: GALN-SA2D-830-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3465.7	3465.7	3465.7	3465.7	3465.7	3465.7	3465.7	3465.7	3465.7	3465.7	3465.7
2.5°	2993.8	3045.4	3143.0	3240.6	3300.3	3370.8	3498.2	3566.0	3654.2	3697.6	3783.0
5°	2412.2	2534.2	2577.6	2688.8	2808.1	2927.4	3117.2	3326.0	3499.6	3618.9	3773.5
7.5°	1760.0	1788.4	1956.6	2031.1	2226.4	2443.3	2702.3	2965.4	3185.0	3380.3	3498.2
10°	1319.3	1423.7	1529.5	1671.8	1829.1	2052.8	2301.0	2591.1	2875.9	3071.1	3220.3
12.5°	1060.3	1143.0	1284.0	1437.3	1631.2	1779.0	2028.4	2315.9	2684.7	2875.9	3072.5
15°	802.7	908.5	1068.5	1227.1	1431.8	1587.8	1840.0	2202.0	2676.6	2939.6	3109.1
17.5°	595.2	667.1	810.8	988.5	1197.3	1416.9	1757.3	2189.8	2767.4	3080.6	3255.5
20°	455.6	480.0	570.8	729.5	955.9	1243.4	1623.0	2242.7	3035.9	3423.7	3601.3
22.5°	368.8	379.7	414.9	524.7	744.4	1091.5	1559.3	2279.3	3338.2	3834.5	4071.8
25°	321.4	318.6	341.7	389.1	581.7	949.1	1477.9	2417.6	3708.4	4317.2	4530.1
27.5°	292.9	292.9	303.7	337.6	482.7	856.9	1426.4	2516.6	4081.3	4741.6	4856.9
30°	278.0	280.7	311.9	322.7	401.3	747.1	1341.0	2616.9	4437.9	5012.8	5171.4
32.5°	257.6	246.8	240.0	267.1	337.6	648.1	1255.6	2658.9	4726.7	5345.0	5480.6
35°	198.0	192.5	200.7	221.0	290.2	564.1	1160.7	2706.4	5058.9	5730.1	5757.2
37.5°	179.0	177.6	183.0	200.7	244.1	490.8	1092.9	2694.2	5312.4	6048.7	5975.5
40°	165.4	165.4	169.5	184.4	218.3	439.3	1022.4	2683.3	5557.9	6406.7	6192.4
42.5°	154.6	154.6	161.4	170.8	207.5	405.4	969.5	2668.4	5764.0	6626.3	6319.9
45°	139.7	143.7	154.6	164.1	210.2	382.4	930.2	2611.5	5834.5	6623.6	6258.9
47.5°	128.8	134.2	145.1	158.6	189.8	375.6	903.0	2561.3	5810.1	6460.9	6067.7
50°	116.6	123.4	138.3	161.4	161.4	362.0	874.6	2606.1	5792.4	6334.8	5884.6
52°	108.5	113.9	132.9	157.3	141.0	333.6	856.9	2692.8	5864.3	6318.5	5803.3
52.5°	107.1	111.2	128.8	154.6	134.2	328.1	844.7	2713.2	5887.4	6277.9	5858.9
55°	94.9	100.3	118.0	120.7	109.8	269.8	805.4	2759.3	5773.5	6197.9	5806.0
57.5°	89.5	92.2	104.4	99.0	94.9	203.4	692.9	2687.4	5128.0	5505.0	5401.9
60°	82.7	85.4	97.6	77.3	80.0	142.4	520.7	2333.5	4117.9	4587.0	4772.8
62.5°	80.0	78.6	92.2	62.4	67.8	103.0	367.5	1896.9	3172.8	3776.2	4097.6
65°	70.5	69.2	66.4	52.9	58.3	80.0	219.7	1237.9	2235.9	2856.9	3033.2
67.5°	54.2	56.9	48.8	42.0	48.8	62.4	122.0	554.6	1172.9	1713.9	1856.2
70°	38.0	40.7	39.3	36.6	43.4	51.5	70.5	189.8	485.4	900.3	992.5
72.5°	23.1	28.5	29.8	31.2	38.0	44.7	50.2	61.0	128.8	318.6	395.9
75°	13.6	19.0	23.1	27.1	31.2	38.0	42.0	43.4	44.7	59.7	96.3
77.5°	9.5	13.6	20.3	25.8	31.2	38.0	44.7	47.5	44.7	42.0	44.7
80°	8.1	13.6	19.0	24.4	32.5	39.3	44.7	44.7	43.4	38.0	40.7
82.5°	8.1	13.6	20.3	25.8	31.2	38.0	43.4	44.7	40.7	38.0	39.3
85°	9.5	14.9	21.7	27.1	33.9	31.2	28.5	23.1	21.7	17.6	19.0
87.5°	9.5	13.6	13.6	14.9	16.3	16.3	16.3	14.9	12.2	10.8	10.8
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: P527873

CATALOG NUMBER: GALN-SA2D-830-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3465.7	3465.7	3465.7	3465.7	3465.7	3465.7	3465.7	3465.7	3465.7	3465.7
2.5°	3787.0	3895.5	3891.5	3894.2	3877.9	3768.1	3715.2	3581.0	3618.9	3602.6
5°	3932.1	4039.2	4131.5	4120.6	3995.9	3846.7	3625.7	3416.9	3359.9	3275.9
7.5°	3787.0	4044.7	4130.1	4117.9	3933.5	3742.3	3389.8	3181.0	3082.0	3026.4
10°	3556.5	3854.8	3960.6	3982.3	3857.6	3567.4	3243.3	2908.4	2855.5	2759.3
12.5°	3425.0	3642.0	3707.1	3765.4	3722.0	3505.0	3132.1	2810.8	2737.6	2673.8
15°	3317.9	3446.7	3473.8	3540.3	3566.0	3449.4	3190.5	2916.6	2736.2	2729.4
17.5°	3416.9	3364.0	3265.0	3285.4	3366.7	3450.8	3341.0	3125.4	2950.5	2928.8
20°	3581.0	3347.7	3124.0	3174.2	3242.0	3499.6	3568.7	3416.9	3316.5	3261.0
22.5°	3769.4	3376.2	3079.3	3103.7	3232.5	3609.4	3937.6	3853.5	3666.4	3586.4
25°	4117.9	3454.9	3114.5	3130.8	3307.1	3762.6	4271.1	4333.5	4222.3	4206.0
27.5°	4458.2	3658.2	3191.8	3155.2	3345.0	3911.8	4473.1	4808.0	4612.8	4574.8
30°	4631.8	3823.7	3307.1	3244.7	3502.3	4002.6	4595.2	5117.2	4946.4	4928.7
32.5°	4897.5	3974.2	3396.5	3316.5	3590.4	4115.2	4823.0	5454.8	5289.4	5201.3
35°	5008.7	4138.2	3593.2	3499.6	3842.6	4272.5	4939.6	5755.8	5704.3	5618.9
37.5°	5223.0	4314.5	3825.0	3819.6	4147.7	4477.2	5149.7	6165.3	6155.8	6008.0
40°	5240.6	4507.0	4191.1	4362.0	4619.6	4833.8	5334.1	6279.2	6433.8	6333.4
42.5°	5267.7	4844.7	4824.3	4965.3	5186.3	5140.2	5340.9	6306.3	6542.3	6482.6
45°	5279.9	5182.3	5468.4	5728.7	5820.9	5541.6	5277.2	6254.8	6599.2	6450.1
47.5°	5182.3	5472.4	5989.0	6492.1	6519.2	5788.4	5250.1	6201.9	6633.1	6534.1
50°	5195.8	5654.1	6439.2	6889.4	6790.4	6006.7	5208.0	6169.4	6615.5	6549.0
52°	5163.3	5658.2	6502.9	6881.2	6812.1	5886.0	5136.2	6044.6	6599.2	6646.7
52.5°	5199.9	5633.8	6436.5	6886.7	6797.2	5945.7	5126.7	6113.8	6608.7	6512.4
55°	5073.8	5343.6	6047.3	6238.5	6225.0	5396.5	4835.2	5884.6	6360.6	6361.9
57.5°	4585.7	4631.8	4743.0	4738.9	4676.5	4242.6	4135.5	5411.4	5670.4	5529.4
60°	4040.6	3391.1	3091.5	2969.4	2900.3	2829.8	3658.2	4950.4	4974.8	4915.2
62.5°	3491.5	2351.1	1952.5	1918.6	1934.9	2192.5	3536.2	4767.4	4620.9	4492.1
65°	2817.6	1713.9	1418.3	1373.5	1532.2	1810.1	2862.3	3655.5	3430.4	3323.3
67.5°	1769.5	1250.1	958.6	874.6	1065.7	1246.1	1880.6	2296.9	2044.7	1896.9
70°	1049.5	698.3	433.9	389.1	438.0	664.4	1053.5	1145.7	947.8	871.8
72.5°	413.6	256.3	120.7	103.0	107.1	233.2	387.8	378.3	286.1	254.9
75°	111.2	77.3	42.0	33.9	28.5	43.4	62.4	40.7	14.9	19.0
77.5°	51.5	46.1	36.6	28.5	21.7	16.3	8.1	2.7	2.7	1.4
80°	44.7	39.3	33.9	28.5	21.7	13.6	6.8	1.4	1.4	1.4
82.5°	42.0	36.6	31.2	25.8	20.3	13.6	6.8	1.4	0.0	0.0
85°	17.6	23.1	25.8	24.4	21.7	13.6	6.8	1.4	0.0	0.0
87.5°	9.5	8.1	6.8	5.4	4.1	2.7	2.7	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

(END OF REPORT)