

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: P533020

Luminaire Tested: **GALN-SA8B-830-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533020
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-SA8B-830-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA 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: 27193 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 325
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

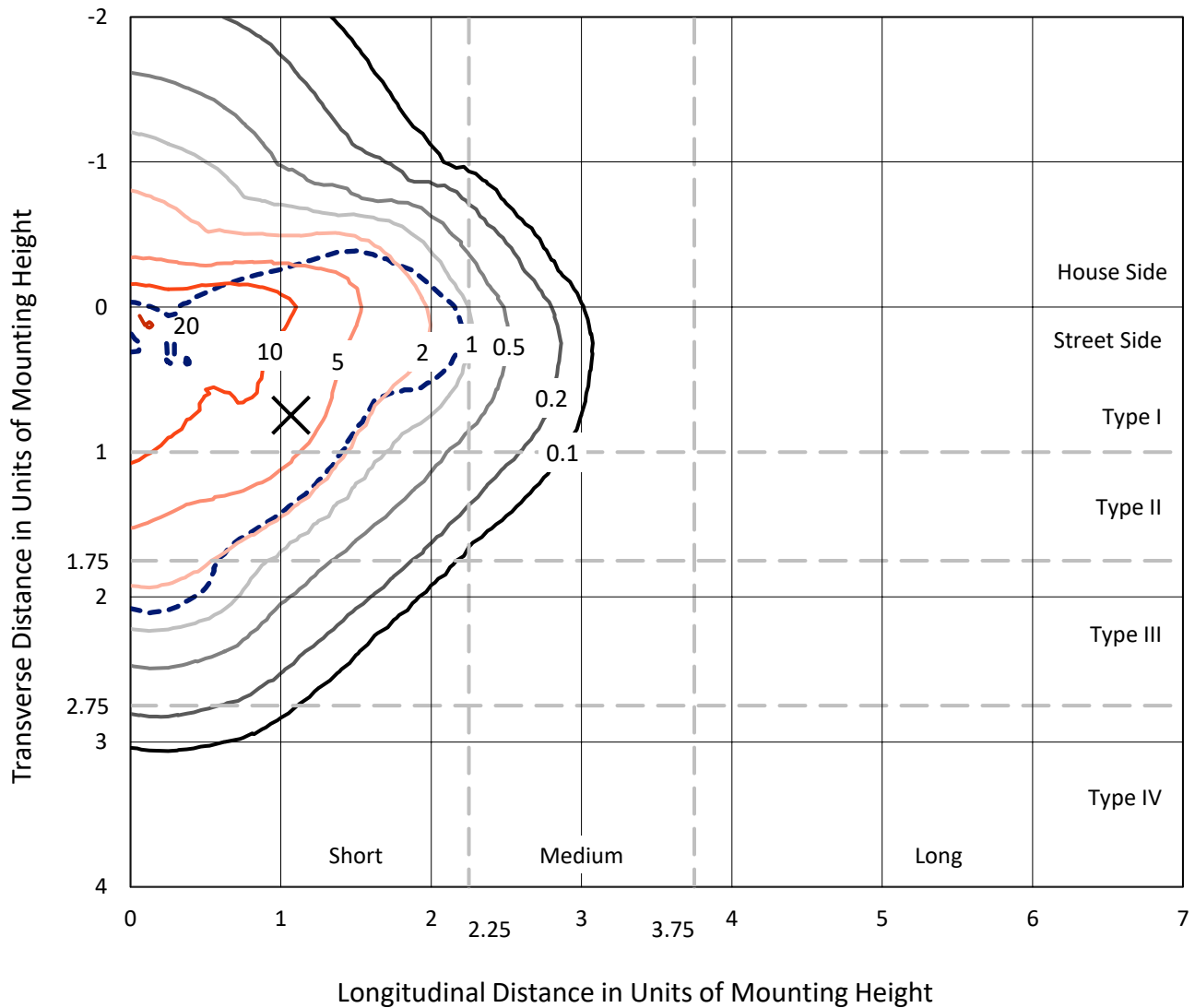


REPORT NUMBER: P533020

CATALOG NUMBER: GALN-SA8B-830-U-SLL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

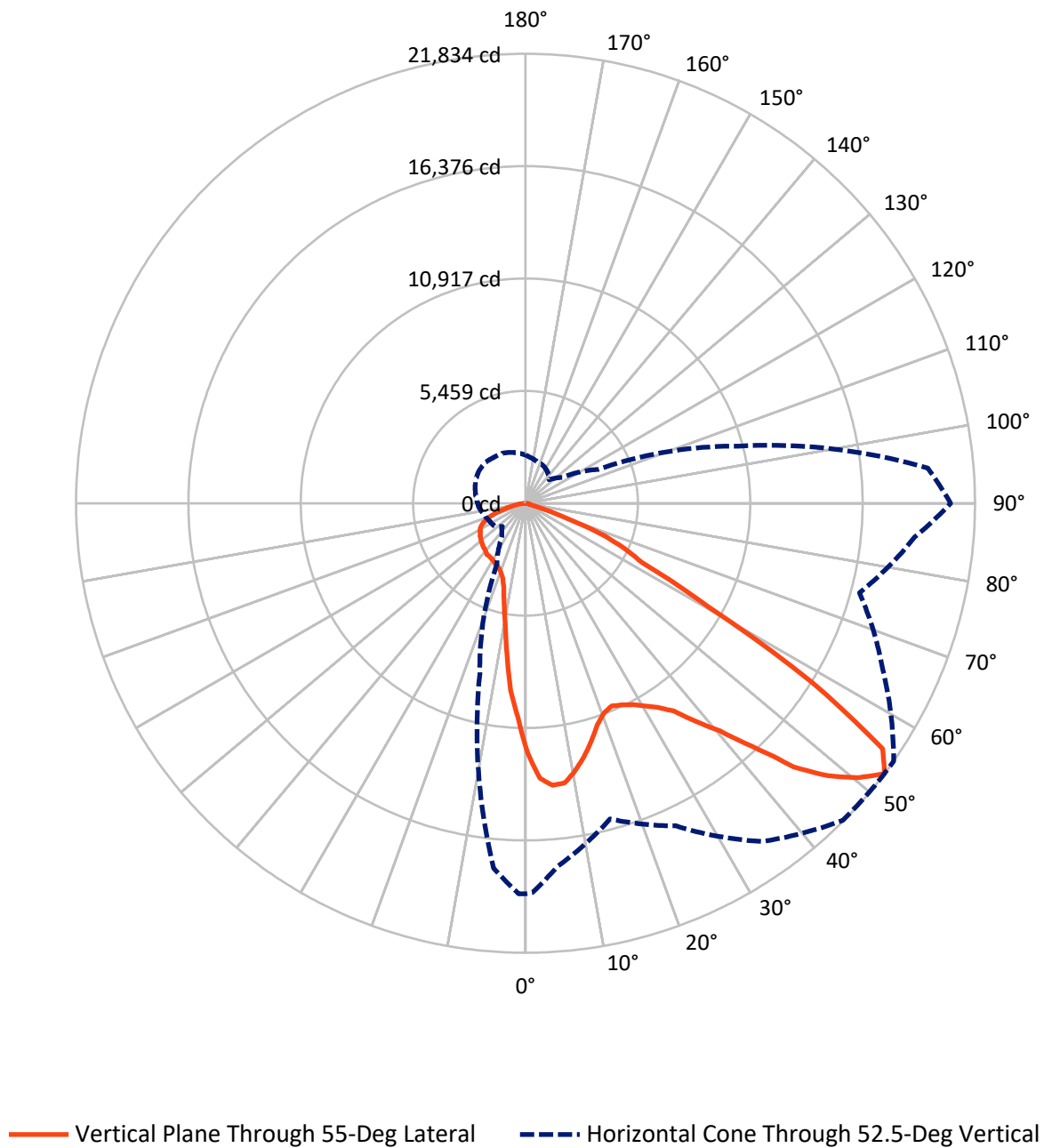


Based on 25 foot mounting height. Maximum calculated value = 20.6 fc
Type II - Short - N/A

REPORT NUMBER: P533020

CATALOG NUMBER: GALN-SA8B-830-U-SLL-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P533020

CATALOG NUMBER: GALN-SA8B-830-U-SLL-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8295.3	0.0	8295.3
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	18897.7	0.0	18897.7
	% Fixture	69.5	0.0	69.5
Total	Lumens	27193.0	0.0	27193.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	926.7	3.4
10°-20°	1998.1	7.3
20°-30°	3029.8	11.1
30°-40°	4377.6	16.1
40°-50°	5849.7	21.5
50°-60°	6529.6	24.0
60°-70°	3581.8	13.2
70°-80°	774.4	2.8
80°-90°	125.3	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°	27193.0	100.0
0°-180°	27193.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533020

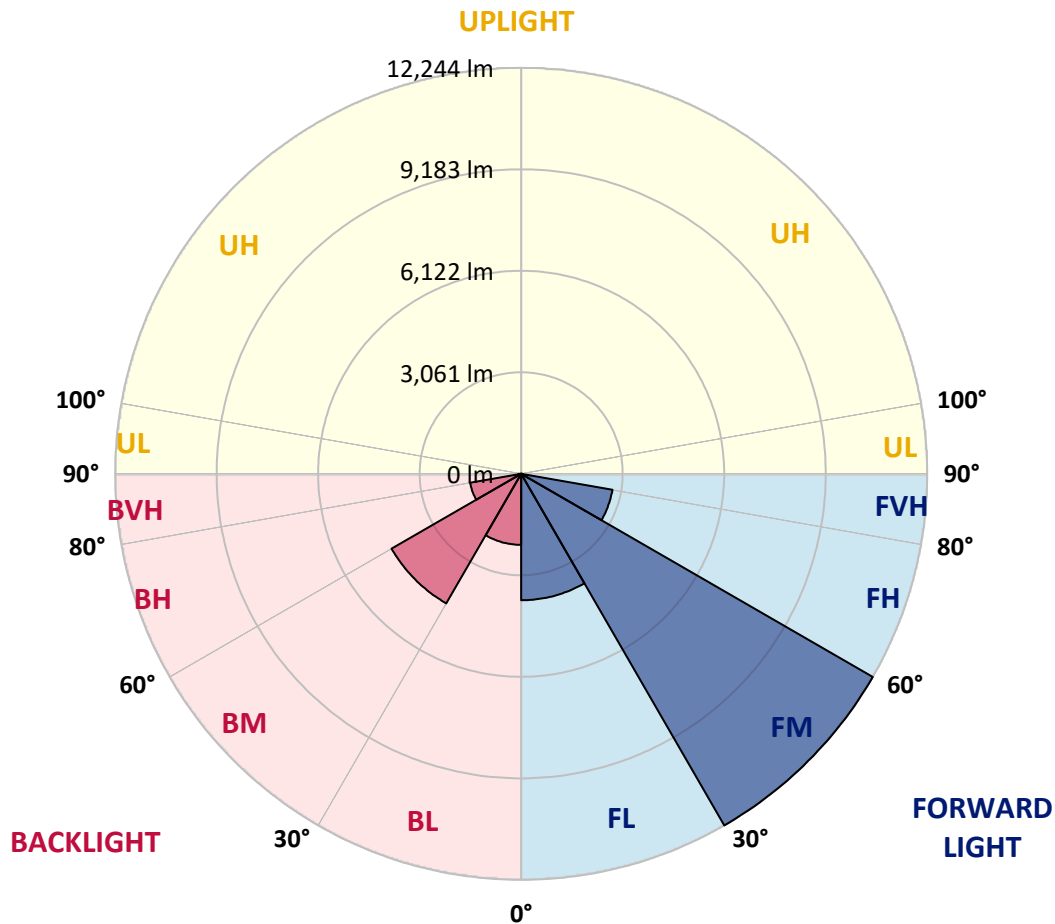
CATALOG NUMBER: GALN-SA8B-830-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3813.0	14.0			
FM	(30°-60°)	12243.6	45.0			
FH	(60°-80°)	2794.8	10.3			G2/5000
FVH	(80°-90°)	46.4	0.2			G1/100
BL	(0°-30°)	2141.7	7.9	B3/2500		
BM	(30°-60°)	4513.3	16.6	B3/5000		
BH	(60°-80°)	1561.4	5.7	B3/2500		G3/2500
BVH	(80°-90°)	78.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



REPORT NUMBER: P533020

CATALOG NUMBER: GALN-SA8B-830-U-SLL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12130.2	12130.2	12130.2	12130.2	12130.2	12130.2	12130.2	12130.2	12130.2	12130.2	12130.2
2.5°	12729.7	12658.3	12721.8	13023.6	13198.3	13317.4	13392.8	13380.9	13095.0	12817.1	12817.1
5°	12356.5	12265.2	12396.2	13079.2	13766.1	13825.6	13924.9	13762.1	13341.2	12833.0	12197.7
7.5°	11276.5	11344.0	11562.4	12459.7	13353.1	13801.8	13920.9	13714.5	13031.5	12082.5	11149.4
10°	10343.4	10502.2	11006.5	11975.3	12797.2	13380.9	13512.0	13222.1	12682.1	11518.7	10684.9
12.5°	10021.8	9922.5	10482.4	11451.2	12237.4	12551.1	12610.6	12630.5	12265.2	11232.8	10216.4
15°	9982.1	10045.6	10482.4	11216.9	11701.4	11717.2	11816.5	11971.4	12019.0	11427.4	10434.7
17.5°	10553.9	10478.4	10927.1	11510.8	11280.5	11050.2	11074.0	11296.4	11689.4	11594.2	11121.6
20°	11399.6	11570.3	11923.7	11864.2	11244.7	10661.1	10665.0	10875.5	11649.7	12285.0	12078.6
22.5°	12805.2	12971.9	13234.0	12515.3	11244.7	10545.9	10410.9	10696.8	11903.9	13106.9	13158.6
25°	14087.7	14393.4	14464.9	13619.2	11808.6	10653.1	10565.8	10847.7	12158.0	13909.0	14397.4
27.5°	15255.0	15366.2	15679.9	14329.9	12122.2	10724.6	10716.6	11078.0	12479.6	14310.0	15505.2
30°	16176.2	16164.3	16343.0	14778.6	12622.5	11125.6	10740.5	11423.4	12900.5	14973.1	16529.6
32.5°	16803.6	16938.6	17315.8	15402.0	12833.0	11506.8	11205.0	11828.4	13412.7	15286.8	17252.3
35°	17907.4	18141.7	17665.2	15747.4	13500.0	11884.0	11530.6	12380.3	13666.8	15628.3	18137.7
37.5°	18947.7	18769.0	18284.6	15934.0	13932.8	12582.8	12253.3	13448.4	14457.0	16370.8	18725.3
40°	19614.8	19610.8	18749.2	16084.9	14238.6	13650.9	13631.1	14532.4	15425.8	16839.3	19384.5
42.5°	19904.6	20182.6	18939.8	16069.0	14881.8	14945.3	15346.4	16152.4	16112.7	16934.6	19368.6
44°	20301.7	20468.4	19269.3	16104.8	15310.6	15818.9	16763.9	17276.1	16712.3	16883.0	19348.7
45°	20285.8	20297.7	18800.8	16152.4	15675.9	16549.5	17395.2	18260.8	17240.3	16771.8	19610.8
47.5°	19821.2	19686.2	18403.7	15799.0	16815.5	18479.2	19261.4	19785.5	17891.5	16533.6	19285.2
50°	18904.0	18749.2	17438.9	15648.1	17053.7	19678.3	20758.3	20948.9	18483.1	16299.3	18963.6
52.5°	18967.6	18923.9	17712.8	15874.5	17292.0	20055.5	21786.7	21834.3	19154.2	16791.7	18967.6
55°	20103.1	19952.3	18499.0	16156.4	17117.3	19614.8	21131.5	21048.1	18927.8	16493.9	19317.0
57.5°	18395.8	18495.1	17411.1	15040.6	14981.1	15945.9	16613.0	16406.5	15795.0	14885.8	17970.9
60°	14842.1	15124.0	15227.2	12578.9	11304.3	10808.0	10609.4	10244.1	10347.4	12229.4	15787.1
62.5°	12729.7	12713.9	13361.1	11403.6	7405.2	6368.8	6273.5	6356.9	7548.1	12038.9	15461.5
65°	10093.3	10363.3	10561.8	9664.4	5860.6	4729.0	4725.0	5253.1	6531.6	10061.5	12483.6
67.5°	6408.5	6761.9	7008.1	6182.2	3919.0	3367.1	3275.7	3911.0	4526.5	6599.1	7516.3
70°	3613.2	3780.0	3891.2	3565.6	2493.5	1747.1	1643.8	1794.7	2735.7	4272.4	4455.0
72.5°	1393.7	1469.1	1620.0	1631.9	941.0	563.8	456.6	547.9	1151.5	1691.5	1612.1
75°	214.4	230.3	325.6	389.1	270.0	206.5	218.4	226.3	321.6	436.8	365.3
77.5°	103.2	103.2	99.3	115.1	135.0	146.9	158.8	174.7	190.6	210.4	202.5
80°	67.5	67.5	67.5	79.4	99.3	119.1	135.0	142.9	150.9	166.8	158.8
82.5°	43.7	43.7	43.7	59.6	79.4	99.3	107.2	127.1	142.9	166.8	154.9
85°	23.8	23.8	23.8	39.7	59.6	83.4	79.4	63.5	35.7	4.0	7.9
87.5°	7.9	7.9	7.9	7.9	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: P533020

CATALOG NUMBER: GALN-SA8B-830-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12130.2	12130.2	12130.2	12130.2	12130.2	12130.2	12130.2	12130.2	12130.2	12130.2	12130.2
2.5°	12483.6	12300.9	12285.0	11911.8	11578.3	11415.5	11284.4	10919.1	10998.6	10788.1	10784.1
5°	11880.0	11506.8	10903.3	10406.9	9910.6	9811.4	9378.6	9001.3	9013.3	8743.3	8790.9
7.5°	10796.1	10538.0	9803.4	9025.2	8366.1	7897.5	7488.6	7242.4	6928.7	6821.5	6765.9
10°	10109.1	9791.5	8965.6	7988.8	7250.3	7000.2	6607.1	6388.7	6067.1	5908.3	5797.1
12.5°	9807.4	9342.8	8310.5	7317.8	6825.5	6567.4	6233.8	5836.8	5455.6	5308.7	5106.2
15°	9839.1	9283.3	8119.9	7047.8	6456.2	5955.9	5658.1	5217.4	4828.2	4570.2	4423.2
17.5°	10319.6	9644.6	8207.2	6841.3	5991.6	5364.3	4780.6	4304.1	3994.4	3799.9	3752.2
20°	11455.2	10538.0	8354.1	6507.8	5527.1	4744.9	4026.2	3529.9	3291.6	3287.7	3291.6
22.5°	12400.2	11490.9	8651.9	6309.3	5062.5	3950.7	3236.0	3077.2	3029.6	3128.8	3140.7
25°	13674.7	12563.0	9164.1	6206.0	4633.7	3367.1	2926.3	2866.8	2862.8	2989.9	2993.8
27.5°	14981.1	13500.0	9469.9	5904.3	4196.9	3065.3	2739.7	2727.8	2791.3	2926.3	2914.4
30°	15870.5	14286.2	10021.8	5543.0	3680.7	2799.3	2664.3	2680.2	2767.5	2870.7	2886.6
32.5°	16906.8	15060.5	10164.7	5344.4	3363.1	2576.9	2481.6	2517.4	2628.5	2791.3	2878.7
35°	18094.0	15608.4	10383.1	5074.4	3244.0	2406.2	2358.5	2398.2	2533.2	2640.4	2735.7
37.5°	18971.5	16577.3	10422.8	4864.0	3113.0	2310.9	2235.4	2366.5	2445.9	2596.8	2644.4
40°	19622.7	17280.0	10526.1	4733.0	3009.7	2187.8	2187.8	2275.2	2382.4	2521.3	2616.6
42.5°	20039.6	17792.3	10601.5	4613.8	2811.2	2152.1	2132.2	2219.6	2362.5	2497.5	2541.2
44°	20293.7	18010.6	10526.1	4502.7	2755.6	2108.4	2108.4	2183.8	2295.0	2453.8	2505.4
45°	20357.3	18284.6	10359.3	4498.7	2688.1	2056.8	2048.8	2191.8	2267.2	2461.8	2493.5
47.5°	20603.4	18622.1	10379.1	4371.6	2525.3	1933.7	2072.7	2136.2	2203.7	2374.4	2481.6
50°	20595.5	18832.6	10335.5	4185.0	2406.2	1794.7	2025.0	2096.5	2164.0	2338.7	2382.4
52.5°	20651.1	19618.7	10736.5	3887.2	2191.8	1616.0	1866.2	2025.0	2108.4	2255.3	2346.6
55°	20623.3	20067.4	11133.6	3664.9	1890.0	1508.8	1731.2	1917.8	2036.9	2191.8	2235.4
57.5°	18836.5	17736.7	10303.7	3248.0	1564.4	1381.8	1540.6	1806.6	1957.5	2116.3	2171.9
60°	15390.0	13670.8	8497.1	2390.3	1286.5	1270.6	1433.4	1770.9	1834.4	1973.4	2068.7
62.5°	14222.7	11991.2	6738.1	1826.5	1099.9	1163.4	1322.2	1600.2	1699.4	1870.2	1957.5
65°	11129.6	7965.0	4173.1	1234.9	968.8	1044.3	1195.2	1401.6	1564.4	1723.2	1826.5
67.5°	6591.2	4351.8	2064.7	865.6	845.7	925.1	1080.0	1234.9	1421.5	1596.2	1647.8
70°	3589.4	2140.2	881.5	659.1	718.7	790.1	941.0	1048.2	1226.9	1361.9	1449.3
72.5°	1151.5	651.2	440.7	488.4	547.9	631.3	722.6	853.7	980.7	1060.2	1131.6
75°	277.9	274.0	313.7	341.5	397.1	460.6	536.0	603.5	702.8	778.2	841.8
77.5°	194.6	210.4	242.2	281.9	301.8	325.6	373.2	424.9	468.5	524.1	563.8
80°	150.9	162.8	186.6	206.5	226.3	246.2	270.0	289.9	317.6	353.4	373.2
82.5°	142.9	150.9	174.7	186.6	178.7	174.7	190.6	198.5	202.5	214.4	226.3
85°	11.9	0.0	7.9	27.8	67.5	99.3	107.2	107.2	103.2	111.2	111.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	15.9	11.9
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: P533020

CATALOG NUMBER: GALN-SA8B-830-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12130.2	12130.2	12130.2	12130.2	12130.2	12130.2	12130.2	12130.2	12130.2	12130.2	12130.2
2.5°	10736.5	10601.5	10653.1	10716.6	10625.3	10414.9	10470.5	10446.6	10661.1	10645.2	10859.6
5°	9001.3	8790.9	8814.7	9124.4	9025.2	9132.4	8918.0	8890.2	8929.9	8949.7	8985.5
7.5°	6889.0	6861.2	7099.4	7361.5	7484.6	7357.5	7147.1	7099.4	7055.8	6968.4	7166.9
10°	5622.4	5630.3	5614.4	5813.0	5951.9	5924.1	5797.1	5781.2	5697.8	5666.0	5777.2
12.5°	5018.8	4911.6	4860.0	4796.5	4903.7	4975.2	4919.6	4879.9	4883.8	4923.5	4939.4
15°	4435.2	4367.7	4256.5	4185.0	4236.6	4200.9	4181.0	4260.5	4240.6	4232.7	4328.0
17.5°	3780.0	3835.6	3827.7	3748.2	3815.7	3788.0	3784.0	3728.4	3653.0	3597.4	3629.1
20°	3347.2	3450.5	3529.9	3533.8	3569.6	3565.6	3506.0	3335.3	3279.7	3267.8	3275.7
22.5°	3192.4	3248.0	3343.2	3478.2	3478.2	3414.7	3343.2	3144.7	3093.1	3037.5	3013.7
25°	3069.3	3176.5	3299.6	3315.5	3379.0	3319.4	3204.3	3105.0	2997.8	2922.4	2922.4
27.5°	3005.7	3124.9	3216.2	3244.0	3331.3	3283.7	3164.6	3037.5	2910.4	2906.5	2839.0
30°	2977.9	3089.1	3148.7	3216.2	3255.9	3180.5	3144.7	3009.7	2882.7	2850.9	2739.7
32.5°	2894.6	3053.4	3164.6	3148.7	3180.5	3148.7	3097.1	2985.9	2842.9	2771.5	2759.6
35°	2799.3	2958.1	3077.2	3160.6	3180.5	3113.0	3081.2	2930.3	2735.7	2700.0	2576.9
37.5°	2747.7	2842.9	2989.9	3124.9	3152.7	3116.9	3009.7	2854.9	2660.3	2620.6	2513.4
40°	2684.1	2807.2	2922.4	3033.5	3116.9	3029.6	2906.5	2755.6	2668.2	2549.1	2517.4
42.5°	2636.5	2775.4	2870.7	2993.8	3089.1	2974.0	2831.0	2727.8	2604.7	2525.3	2434.0
44°	2620.6	2747.7	2811.2	2962.1	3041.5	2954.1	2835.0	2727.8	2584.9	2513.4	2434.0
45°	2565.0	2739.7	2807.2	2942.2	3009.7	2938.2	2787.4	2680.2	2576.9	2489.6	2406.2
47.5°	2509.4	2628.5	2743.7	2850.9	2898.5	2874.7	2747.7	2616.6	2493.5	2441.9	2362.5
50°	2493.5	2612.7	2719.9	2819.1	2874.7	2827.1	2711.9	2584.9	2441.9	2358.5	2291.0
52.5°	2414.1	2561.0	2680.2	2711.9	2783.4	2755.6	2668.2	2529.3	2394.3	2322.8	2267.2
55°	2299.0	2453.8	2616.6	2656.3	2759.6	2715.9	2584.9	2453.8	2338.7	2231.5	2160.0
57.5°	2255.3	2406.2	2565.0	2616.6	2680.2	2608.7	2576.9	2437.9	2255.3	2199.7	2088.5
60°	2144.1	2334.7	2465.7	2584.9	2588.8	2569.0	2513.4	2354.6	2203.7	2100.4	2021.0
62.5°	2056.8	2235.4	2338.7	2449.9	2517.4	2461.8	2406.2	2259.3	2096.5	1981.3	1890.0
65°	1929.7	2092.5	2179.9	2247.4	2322.8	2314.9	2219.6	2112.4	1941.6	1850.3	1762.9
67.5°	1735.2	1878.1	1997.2	2060.7	2108.4	2096.5	2025.0	1949.6	1774.9	1683.5	1620.0
70°	1500.9	1647.8	1723.2	1759.0	1806.6	1830.4	1774.9	1739.1	1584.3	1465.2	1405.6
72.5°	1207.1	1302.4	1413.5	1445.3	1465.2	1481.0	1481.0	1449.3	1290.4	1242.8	1139.6
75°	889.4	964.9	1048.2	1048.2	1084.0	1087.9	1095.9	1076.0	956.9	893.4	869.6
77.5°	603.5	659.1	726.6	754.4	778.2	774.3	770.3	714.7	651.2	623.4	599.6
80°	393.1	448.7	480.4	516.2	540.0	536.0	544.0	504.3	476.5	428.8	436.8
82.5°	234.3	277.9	309.7	353.4	353.4	365.3	365.3	353.4	325.6	301.8	301.8
85°	111.2	146.9	166.8	194.6	210.4	214.4	190.6	162.8	135.0	123.1	135.0
87.5°	19.9	27.8	39.7	35.7	43.7	39.7	39.7	39.7	39.7	31.8	35.7
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: P533020

CATALOG NUMBER: GALN-SA8B-830-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12130.2	12130.2	12130.2	12130.2	12130.2	12130.2	12130.2	12130.2	12130.2	12130.2
2.5°	10780.2	10978.7	11117.7	11348.0	11745.0	12062.7	12388.3	12630.5	12658.3	12729.7
5°	9116.5	9223.7	9577.1	10037.7	10363.3	10899.3	11244.7	11872.1	12106.4	12356.5
7.5°	7119.3	7294.0	7766.5	8076.2	8790.9	9461.9	10156.8	10931.1	11240.8	11276.5
10°	6003.5	6257.7	6579.3	7075.6	7464.7	8211.2	9076.8	9938.4	10283.9	10343.4
12.5°	5273.0	5598.5	6027.4	6384.7	6758.0	7409.1	8239.0	9303.1	9751.8	10021.8
15°	4570.2	4907.7	5380.2	5876.5	6206.0	6984.3	7961.1	9160.2	9743.9	9982.1
17.5°	3847.5	4161.2	4550.3	5086.3	5749.4	6623.0	7917.4	9636.6	10275.9	10553.9
20°	3228.1	3402.8	3855.5	4407.4	5237.2	6253.7	7933.3	10339.4	11276.5	11399.6
22.5°	2985.9	3025.6	3204.3	3712.5	4621.8	5876.5	8215.2	11336.1	12400.2	12805.2
25°	2799.3	2791.3	2839.0	3180.5	4173.1	5729.6	8493.1	12253.3	13647.0	14087.7
27.5°	2696.0	2616.6	2620.6	2942.2	3855.5	5491.3	8850.5	13305.5	15060.5	15255.0
30°	2644.4	2628.5	2580.9	2711.9	3510.0	5134.0	8910.0	14341.8	15894.3	16176.2
32.5°	2612.7	2457.8	2398.2	2445.9	3184.4	4744.9	9132.4	15024.7	16926.7	16803.6
35°	2453.8	2314.9	2275.2	2322.8	2954.1	4526.5	8985.5	15620.3	17700.9	17907.4
37.5°	2394.3	2271.2	2191.8	2152.1	2739.7	4343.8	8910.0	16537.5	18451.4	18947.7
40°	2338.7	2207.7	2112.4	2072.7	2572.9	4101.6	8886.2	17244.3	19317.0	19614.8
42.5°	2275.2	2191.8	2084.6	2013.1	2370.4	3859.4	8612.2	17462.7	19583.0	19904.6
44°	2255.3	2128.2	2017.1	1993.2	2291.0	3736.3	8556.6	17661.2	19813.3	20301.7
45°	2235.4	2116.3	1989.3	1957.5	2263.2	3668.8	8481.2	17708.9	20194.5	20285.8
47.5°	2179.9	2104.4	1981.3	1894.0	2203.7	3521.9	8254.9	17438.9	19805.4	19821.2
50°	2136.2	2048.8	1921.8	1751.0	2124.3	3398.8	8358.1	17339.6	18868.3	18904.0
52.5°	2088.5	1957.5	1886.0	1592.2	1993.2	3295.6	8576.5	17788.3	18975.5	18967.6
55°	2032.9	1890.0	1715.3	1457.2	1774.9	3164.6	9104.6	18673.7	19968.1	20103.1
57.5°	1945.6	1822.5	1572.4	1338.1	1524.7	2914.4	8933.8	16978.3	18372.0	18395.8
60°	1830.4	1715.3	1425.4	1246.8	1250.7	2299.0	7988.8	13230.0	14496.7	14842.1
62.5°	1719.3	1655.7	1302.4	1115.7	1064.1	1830.4	6754.0	10994.6	12443.9	12729.7
65°	1588.2	1433.4	1195.2	1016.5	913.2	1282.5	4784.6	8215.2	9708.1	10093.3
67.5°	1421.5	1254.7	1052.2	893.4	782.2	857.6	2469.7	4669.4	6182.2	6408.5
70°	1242.8	1087.9	885.4	754.4	631.3	591.6	1087.9	2227.5	3379.0	3613.2
72.5°	1020.4	877.5	706.8	595.6	472.5	409.0	365.3	595.6	1199.1	1393.7
75°	738.5	639.3	532.1	424.9	333.5	262.1	214.4	178.7	198.5	214.4
77.5°	544.0	464.6	393.1	301.8	234.3	186.6	146.9	111.2	107.2	103.2
80°	424.9	377.2	313.7	242.2	182.6	139.0	103.2	75.4	67.5	67.5
82.5°	333.5	309.7	258.1	198.5	150.9	111.2	75.4	51.6	43.7	43.7
85°	127.1	127.1	186.6	162.8	115.1	79.4	51.6	27.8	23.8	23.8
87.5°	31.8	31.8	31.8	31.8	27.8	23.8	23.8	11.9	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)