

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: P455249

Luminaire Tested: **GALN-SA6B-830-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455249
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23112 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 243
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

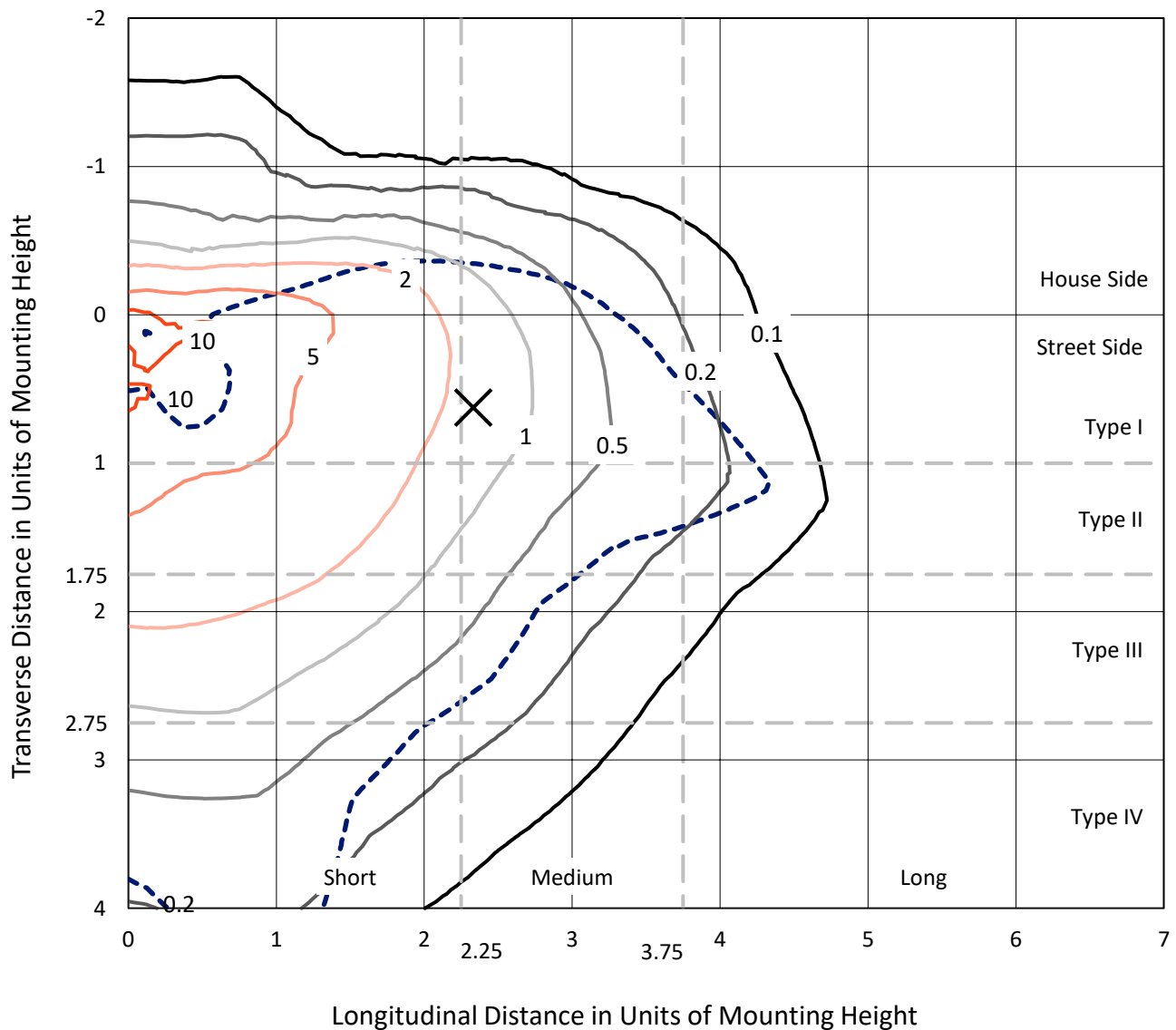


REPORT NUMBER: P455249

CATALOG NUMBER: GALN-SA6B-830-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

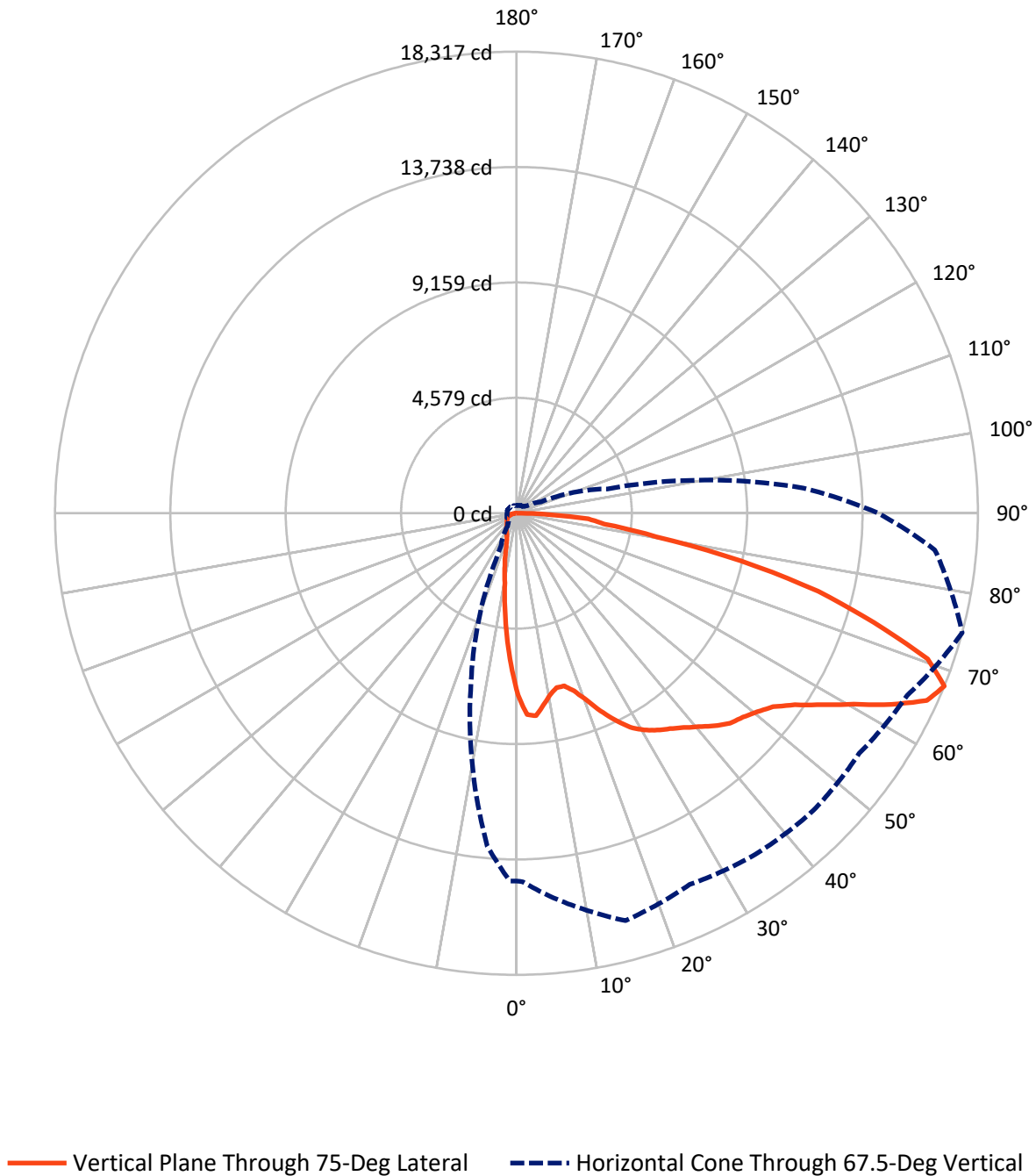
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P455249
CATALOG NUMBER: GALN-SA6B-830-U-SLL

Luminous Intensity Polar Plot



REPORT NUMBER: P455249

CATALOG NUMBER: GALN-SA6B-830-U-SLL

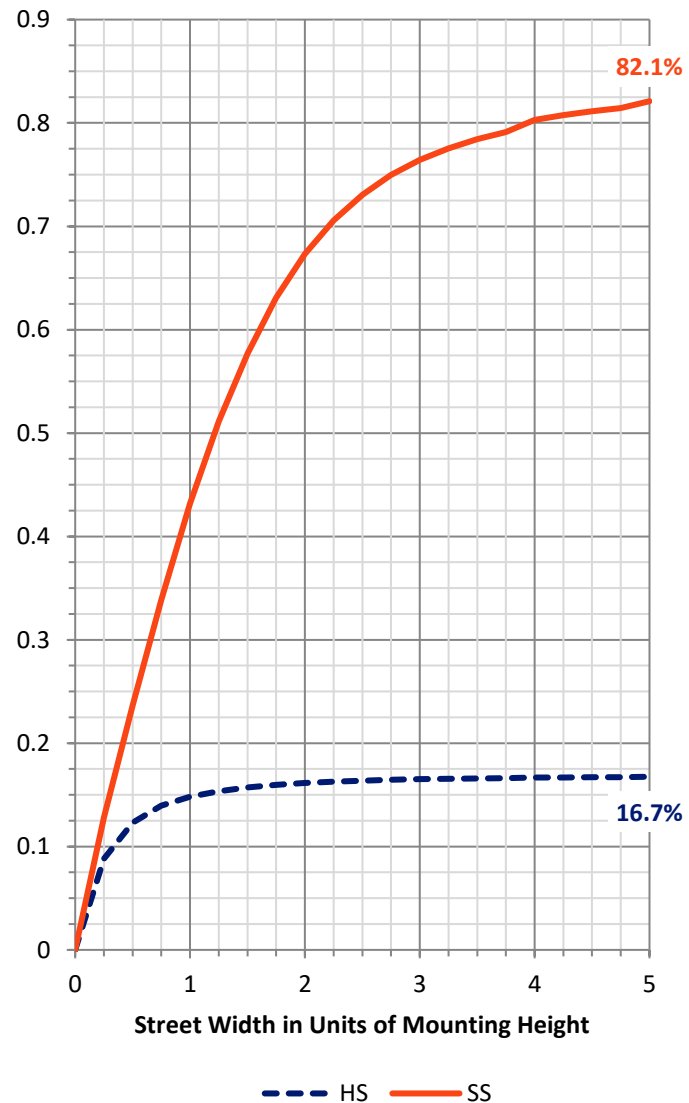
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3906.4	0.0	3906.4
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	19205.6	0.0	19205.6
	% Fixture	83.1	0.0	83.1
Total	Lumens	23112.0	0.0	23112.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.7	2.4
10°-20°	1142.2	4.9
20°-30°	1643.6	7.1
30°-40°	2367.3	10.2
40°-50°	3325.4	14.4
50°-60°	4637.7	20.1
60°-70°	5514.0	23.9
70°-80°	3247.4	14.1
80°-90°	686.7	3.0
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°	23112.0	100.0
0°-180°	23112.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455249

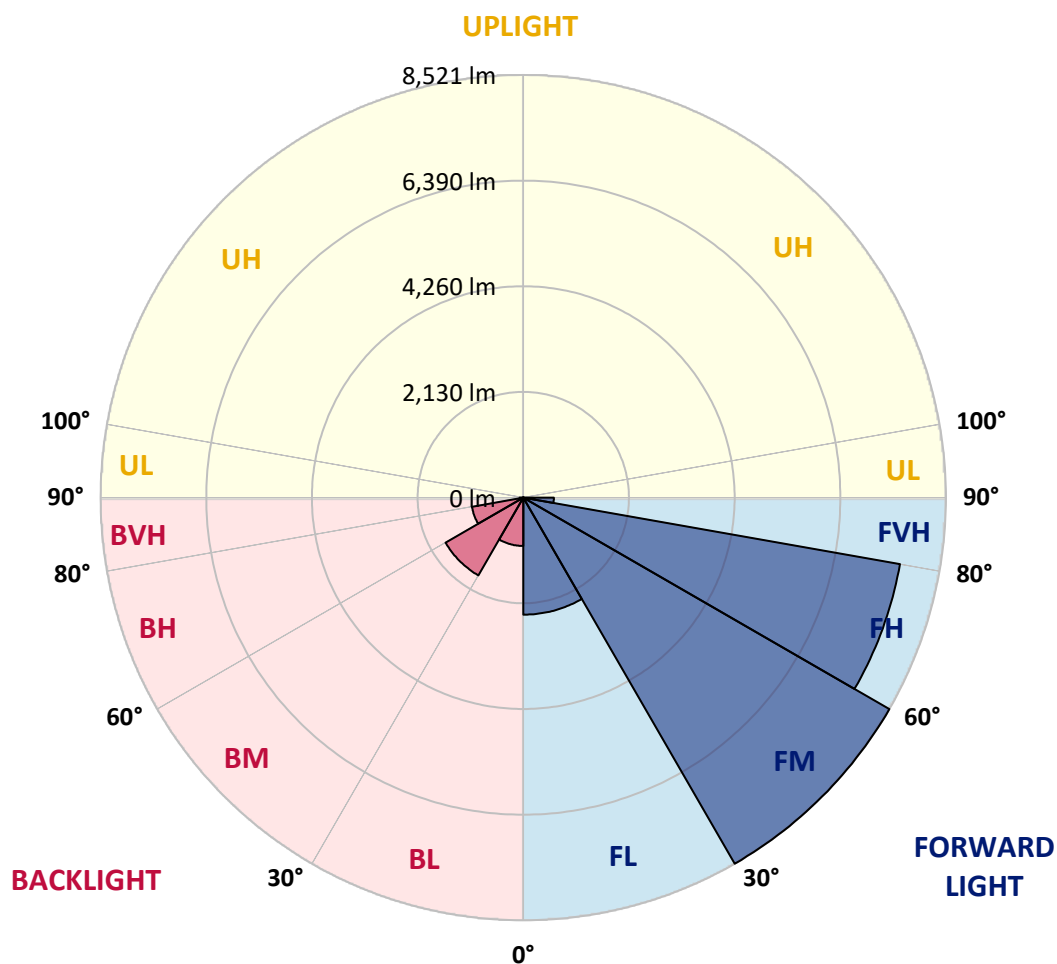
CATALOG NUMBER: GALN-SA6B-830-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2359.1	10.2			
FM	(30°-60°)	8520.5	36.9			
FH	(60°-80°)	7710.3	33.4			G4/12000
FVH	(80°-90°)	615.7	2.7			G4/750
BL	(0°-30°)	974.4	4.2	B2/1000		
BM	(30°-60°)	1809.9	7.8	B2/2500		
BH	(60°-80°)	1051.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	71.0	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-G4

Type III Medium



REPORT NUMBER: P455249

CATALOG NUMBER: GALN-SA6B-830-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7220.7	7220.7	7220.7	7220.7	7220.7	7220.7	7220.7	7220.7	7220.7	7220.7	7220.7
2.5°	7785.4	7795.8	7862.5	8056.6	8190.0	8238.9	8273.0	8209.3	8147.0	7995.9	7767.6
5°	7761.7	7822.5	7995.9	8431.6	8775.4	8923.7	8968.1	8776.9	8461.2	8072.9	7606.1
7.5°	7308.2	7389.7	7656.5	8387.1	8993.3	9340.1	9294.2	8948.9	8379.7	7687.6	7035.5
10°	6770.2	6860.6	7182.2	8065.5	8846.6	9323.8	9323.8	8902.9	8147.0	7324.5	6573.1
12.5°	6343.3	6438.2	6805.8	7735.0	8541.3	8993.3	9068.9	8707.3	7979.6	7094.8	6269.2
15°	6202.5	6294.4	6690.1	7534.9	8218.2	8493.8	8519.0	8400.5	7898.1	7111.1	6255.9
17.5°	6377.4	6496.0	6896.2	7594.2	7921.8	7938.1	7957.3	8050.7	7906.9	7409.0	6525.6
20°	6882.8	7010.3	7428.2	7785.4	7662.4	7493.4	7503.8	7743.9	8012.2	7901.0	7170.3
22.5°	7612.0	7723.2	8151.5	8121.8	7552.7	7204.4	7131.8	7466.8	8167.8	8514.6	7856.6
25°	8399.0	8529.4	9021.5	8621.3	7583.8	7032.5	6986.6	7303.7	8329.3	9088.2	8649.5
27.5°	9300.1	9427.6	9815.9	9125.2	7746.9	7019.2	6964.3	7288.9	8474.6	9618.8	9406.8
30°	9970.0	10087.1	10350.9	9549.1	7947.0	7108.1	7039.9	7406.0	8599.1	9981.9	10144.9
32.5°	10496.2	10617.7	10761.4	9812.9	8210.8	7269.6	7143.7	7619.4	8762.1	10259.0	10691.8
35°	11044.5	11188.3	11177.9	10047.1	8456.8	7456.4	7333.4	7927.7	9018.5	10500.6	11385.4
37.5°	11739.6	11797.4	11723.3	10257.5	8751.7	7792.8	7724.6	8385.7	9383.1	10792.6	12196.1
40°	12445.1	12560.7	12179.8	10512.5	9110.4	8425.7	8418.3	9063.0	9815.9	11134.9	12981.6
42.5°	13049.8	13147.6	12606.6	10734.8	9544.7	9197.8	9254.2	9971.5	10383.5	11532.1	13613.0
45°	13504.8	13592.2	13000.9	10949.7	10116.7	10090.1	10422.0	10945.2	11099.4	11889.3	13983.5
47.5°	13891.6	13976.1	13275.1	11275.7	10823.7	11155.7	11733.7	11960.5	11711.5	12093.8	14398.5
50°	14217.7	14242.9	13463.3	11664.0	11701.1	12461.4	13021.6	13168.4	12316.2	12387.3	14758.6
52.5°	14557.1	14524.5	13787.9	12153.1	12649.6	13700.4	14108.0	14260.7	12895.7	12748.9	15283.3
55°	15317.4	15348.5	14515.6	12769.7	13608.5	14917.2	15453.7	15307.0	13537.4	13414.4	15950.2
57.5°	16236.3	16209.6	15539.7	13734.5	14585.2	16049.5	16449.7	16214.0	14394.0	14328.8	16626.1
60°	16593.5	16629.0	16396.3	14772.0	15548.6	17041.1	17450.1	17084.0	15421.1	15391.5	17135.9
62.5°	16234.8	16434.9	16592.0	15695.3	16369.7	17770.2	18176.3	17758.4	16492.7	16707.6	17493.1
65°	15520.4	15563.4	16098.4	16477.9	16765.4	17890.3	18102.2	17879.9	17387.9	17906.6	17476.8
67.5°	14592.6	14629.7	15256.6	16734.3	16255.5	16526.8	16675.0	16609.8	17110.7	18317.1	16672.0
70°	13709.3	13679.7	14342.2	16080.7	14151.0	13739.0	13862.0	13657.4	14764.6	17313.8	15093.6
72.5°	11990.1	12096.8	12808.2	14263.6	11204.6	10534.7	10802.9	10273.8	11355.8	14828.3	12250.9
75°	9392.0	9417.2	10604.3	11970.8	8452.4	7395.6	7758.7	7537.9	8698.4	12369.5	8459.8
77.5°	6503.4	6447.1	7723.2	9143.0	6027.7	5414.1	5420.0	5314.8	6073.6	9107.4	5747.5
80°	4130.6	4044.6	4834.6	5648.2	4142.4	4431.4	4286.2	4281.8	3954.2	5618.6	3475.5
82.5°	2232.0	2326.9	3054.6	3540.7	2971.6	3425.1	3139.1	3047.2	2713.7	3517.0	2223.1
85°	1016.7	1105.6	1628.8	2408.4	2257.2	2282.4	1525.1	1799.3	2245.4	2856.0	1187.2
87.5°	99.3	127.5	336.4	1136.8	770.7	607.7	226.8	437.2	564.7	1015.2	94.9
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: P455249

CATALOG NUMBER: GALN-SA6B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7220.7	7220.7	7220.7	7220.7	7220.7	7220.7	7220.7	7220.7	7220.7	7220.7	7220.7
2.5°	7674.3	7597.2	7334.9	7118.5	6888.7	6713.9	6485.6	6333.0	6227.7	6069.2	6049.9
5°	7321.5	7133.3	6676.8	6211.4	5809.8	5507.4	5200.6	4919.1	4753.1	4701.2	4634.5
7.5°	6727.2	6410.0	5823.1	5289.6	4828.6	4378.1	4031.3	3785.3	3620.7	3524.4	3408.8
10°	6238.1	5870.6	5156.2	4502.6	4123.2	3843.1	3537.7	3273.9	3070.9	2897.5	2802.6
12.5°	5909.1	5494.1	4690.8	4160.2	3866.8	3568.9	3211.7	2915.3	2615.9	2418.8	2334.3
15°	5809.8	5371.1	4547.0	3989.8	3568.9	3179.1	2778.9	2392.1	2095.7	1908.9	1846.7
17.5°	6052.8	5522.3	4545.6	3763.0	3219.1	2753.7	2240.9	1877.8	1574.0	1434.7	1390.2
20°	6506.4	5812.8	4558.9	3539.2	2839.7	2184.6	1630.3	1332.4	1187.2	1127.9	1105.6
22.5°	7139.2	6255.9	4598.9	3318.4	2424.7	1677.7	1221.2	1070.1	1018.2	1007.8	1003.4
25°	7918.8	6804.3	4733.8	3119.8	2074.9	1280.5	1021.2	953.0	923.3	913.0	911.5
27.5°	8636.1	7512.7	4896.8	2949.4	1737.0	1104.2	923.3	865.5	835.9	834.4	837.4
30°	9283.8	8105.5	5033.2	2758.2	1480.6	981.1	859.6	801.8	773.7	772.2	781.1
32.5°	9844.0	8593.1	5134.0	2569.9	1338.3	905.6	801.8	739.6	715.8	711.4	715.8
35°	10442.8	9079.3	5088.0	2423.2	1256.8	843.3	758.8	698.1	669.9	656.6	656.6
37.5°	11126.0	9580.2	5009.5	2301.7	1219.8	791.4	721.8	662.5	634.3	621.0	619.5
40°	11871.5	10081.2	4901.3	2193.5	1182.7	760.3	696.6	634.3	600.2	586.9	583.9
42.5°	12529.6	10509.5	4812.3	2122.4	1121.9	766.2	674.4	613.6	570.6	552.8	551.3
45°	13101.7	10940.8	4796.0	2080.9	1071.6	757.3	668.4	597.3	546.9	527.6	524.7
47.5°	13549.3	11389.9	4889.4	2057.1	1016.7	709.9	707.0	586.9	526.1	505.4	502.4
50°	14094.7	12027.1	5102.8	2008.2	966.3	665.5	747.0	585.4	509.8	483.2	475.8
52.5°	14820.9	12857.1	5391.8	1920.8	893.7	624.0	712.9	585.4	490.6	463.9	455.0
55°	15919.1	13915.3	5674.9	1797.8	791.4	569.1	643.2	567.6	462.4	438.7	432.8
57.5°	16646.8	14689.0	5855.7	1627.3	664.0	529.1	554.3	539.5	434.3	409.1	409.1
60°	16683.9	14896.5	5769.8	1412.4	583.9	492.1	481.7	543.9	409.1	382.4	379.4
62.5°	16257.0	14388.1	5322.2	1219.8	541.0	452.0	435.7	477.2	383.9	357.2	352.7
65°	15590.1	13091.3	4545.6	1127.9	517.2	416.5	392.8	391.3	357.2	332.0	326.1
67.5°	14364.4	11440.2	3734.9	1074.5	505.4	376.5	354.2	346.8	326.1	305.3	302.3
70°	12557.7	9581.7	2995.3	1052.3	499.5	335.0	317.2	308.3	290.5	274.2	272.7
72.5°	9769.9	7772.1	2472.1	1037.5	496.5	296.4	277.2	265.3	254.9	240.1	240.1
75°	7017.7	5717.9	1886.7	935.2	459.4	254.9	234.2	226.8	211.9	200.1	203.0
77.5°	4424.0	3850.5	1242.0	687.7	355.7	204.5	186.7	182.3	170.4	154.1	164.5
80°	2987.9	2707.8	724.7	432.8	223.8	149.7	143.8	142.3	128.9	111.2	112.6
82.5°	2033.4	1994.9	376.5	246.0	128.9	87.4	84.5	87.4	72.6	59.3	59.3
85°	794.4	1084.9	177.9	96.3	41.5	13.3	19.3	20.7	11.9	5.9	7.4
87.5°	14.8	111.2	4.4	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: P455249

CATALOG NUMBER: GALN-SA6B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7220.7	7220.7	7220.7	7220.7	7220.7	7220.7	7220.7	7220.7	7220.7	7220.7	7220.7
2.5°	6020.2	6006.9	6029.1	5934.3	5953.5	5989.1	6006.9	6017.3	6164.0	6129.9	6223.3
5°	4696.7	4683.4	4769.4	4781.2	4825.7	4816.8	4859.8	4870.1	4923.5	4942.8	5073.2
7.5°	3416.2	3474.0	3571.8	3622.2	3697.8	3721.5	3699.3	3754.1	3643.0	3723.0	3746.7
10°	2744.8	2675.2	2633.7	2749.3	2764.1	2873.8	2829.3	2793.7	2858.9	2861.9	2924.2
12.5°	2285.4	2135.7	2036.4	2069.0	2104.6	2152.0	2159.4	2230.5	2278.0	2322.4	2359.5
15°	1791.8	1740.0	1649.6	1605.1	1655.5	1674.8	1720.7	1780.0	1830.4	1843.7	1894.1
17.5°	1375.4	1384.3	1369.4	1342.8	1373.9	1388.7	1391.7	1393.2	1406.5	1397.6	1471.7
20°	1107.1	1138.2	1175.3	1181.2	1191.6	1199.0	1185.7	1135.3	1136.8	1167.9	1191.6
22.5°	1001.9	1007.8	1049.3	1062.7	1095.3	1081.9	1043.4	1019.7	1016.7	1024.1	1036.0
25°	918.9	927.8	957.4	978.2	1003.4	979.7	951.5	929.3	926.3	933.7	945.6
27.5°	844.8	858.1	884.8	905.6	929.3	907.0	880.4	861.1	859.6	858.1	865.5
30°	785.5	800.3	819.6	843.3	859.6	840.3	815.1	804.8	803.3	800.3	803.3
32.5°	726.2	749.9	769.2	781.1	797.4	782.5	763.3	757.3	747.0	738.1	733.6
35°	659.5	684.7	714.4	729.2	745.5	730.7	717.3	692.1	674.4	672.9	675.8
37.5°	621.0	631.4	655.1	680.3	696.6	689.2	664.0	638.8	634.3	634.3	637.3
40°	586.9	591.4	601.7	634.3	664.0	641.7	610.6	603.2	603.2	601.7	603.2
42.5°	552.8	557.3	557.3	582.5	629.9	594.3	570.6	570.6	570.6	572.1	576.5
45°	521.7	523.2	521.7	539.5	583.9	554.3	538.0	542.4	545.4	548.4	551.3
47.5°	495.0	496.5	495.0	509.8	532.1	520.2	511.3	517.2	523.2	527.6	530.6
50°	471.3	469.8	472.8	481.7	492.1	495.0	489.1	498.0	500.9	506.9	514.3
52.5°	450.6	449.1	452.0	456.5	471.3	471.3	471.3	478.7	484.6	490.6	500.9
55°	426.8	428.3	432.8	438.7	458.0	455.0	456.5	462.4	468.3	477.2	483.2
57.5°	404.6	407.6	413.5	422.4	441.7	440.2	441.7	444.6	452.0	456.5	462.4
60°	379.4	385.3	392.8	398.7	417.9	416.5	423.9	429.8	434.3	434.3	437.2
62.5°	354.2	363.1	370.5	375.0	395.7	397.2	407.6	412.0	415.0	412.0	416.5
65°	329.0	342.4	345.3	351.3	372.0	373.5	385.3	395.7	392.8	389.8	397.2
67.5°	303.8	320.1	318.6	326.1	346.8	349.8	360.1	377.9	372.0	369.0	375.0
70°	275.7	287.5	289.0	293.5	321.6	317.2	333.5	349.8	345.3	346.8	346.8
72.5°	244.5	254.9	254.9	263.8	293.5	286.0	299.4	317.2	317.2	315.7	315.7
75°	207.5	213.4	219.3	232.7	263.8	254.9	263.8	280.1	283.1	280.1	280.1
77.5°	167.5	176.4	179.3	197.1	219.3	217.9	226.8	234.2	240.1	237.1	237.1
80°	118.6	127.5	139.3	158.6	171.9	176.4	180.8	186.7	189.7	189.7	192.7
82.5°	66.7	80.0	90.4	109.7	115.6	137.8	136.4	140.8	136.4	120.0	133.4
85°	14.8	28.2	40.0	50.4	57.8	80.0	84.5	94.9	78.6	72.6	72.6
87.5°	0.0	0.0	0.0	0.0	0.0	11.9	23.7	32.6	28.2	23.7	23.7
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: P455249

CATALOG NUMBER: GALN-SA6B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7220.7	7220.7	7220.7	7220.7	7220.7	7220.7	7220.7	7220.7	7220.7	7220.7
2.5°	6301.8	6430.8	6586.4	6854.7	7042.9	7245.9	7450.5	7668.3	7726.1	7785.4
5°	5108.8	5362.2	5500.0	5860.2	6238.1	6718.3	7111.1	7540.9	7720.2	7761.7
7.5°	3869.7	4041.7	4403.3	4767.9	5236.2	5740.1	6341.9	7011.8	7220.7	7308.2
10°	3067.9	3302.1	3619.3	4010.5	4421.1	4963.5	5642.3	6424.9	6721.3	6770.2
12.5°	2611.4	2872.3	3217.6	3631.1	4019.4	4428.5	5113.2	5920.9	6238.1	6343.3
15°	2088.3	2403.9	2802.6	3238.4	3660.8	4108.3	4802.0	5713.5	6079.5	6202.5
17.5°	1640.7	1895.6	2326.9	2799.7	3300.6	3866.8	4736.8	5812.8	6263.3	6377.4
20°	1255.3	1437.6	1800.7	2300.2	2887.1	3628.2	4753.1	6187.7	6727.2	6882.8
22.5°	1084.9	1178.3	1399.1	1874.8	2531.4	3420.7	4819.8	6702.0	7352.6	7612.0
25°	982.6	1031.5	1156.0	1467.3	2192.0	3219.1	4972.4	7394.1	8227.1	8399.0
27.5°	895.2	930.8	1007.8	1231.6	1883.7	3032.4	5150.3	8161.9	9043.7	9300.1
30°	812.2	859.6	932.2	1093.8	1686.6	2861.9	5374.1	8784.3	9731.4	9970.0
32.5°	748.5	795.9	862.6	997.4	1519.1	2682.6	5507.4	9331.2	10293.1	10496.2
35°	696.6	736.6	806.3	920.4	1391.7	2546.2	5480.8	9765.5	10837.0	11044.5
37.5°	659.5	693.6	763.3	847.8	1295.3	2403.9	5467.4	10339.1	11499.5	11739.6
40°	625.4	661.0	724.7	800.3	1199.0	2236.5	5474.8	10908.2	12205.0	12445.1
42.5°	598.8	638.8	690.7	787.0	1099.7	2101.6	5474.8	11403.2	12818.6	13049.8
45°	576.5	619.5	669.9	785.5	1021.2	1999.3	5437.8	11828.5	13307.7	13504.8
47.5°	557.3	604.7	677.3	758.8	1001.9	1925.2	5405.2	12169.4	13706.4	13891.6
50°	543.9	600.2	720.3	727.7	1007.8	1903.0	5562.3	12599.2	14057.6	14217.7
52.5°	533.6	601.7	718.8	681.8	997.4	1917.8	5889.8	13270.6	14545.2	14557.1
55°	512.8	600.2	681.8	629.9	954.5	1943.0	6310.7	14245.8	15308.5	15317.4
57.5°	492.1	583.9	632.9	585.4	867.0	1943.0	6817.6	15169.2	16228.9	16236.3
60°	471.3	607.7	555.8	546.9	752.9	1907.4	7352.6	15575.3	16517.9	16593.5
62.5°	450.6	612.1	496.5	512.8	669.9	1821.5	7751.3	15126.2	16126.6	16234.8
65°	426.8	493.5	458.0	477.2	626.9	1677.7	7625.3	14303.6	15391.5	15520.4
67.5°	398.7	417.9	416.5	440.2	612.1	1465.8	6961.4	13263.2	14600.1	14592.6
70°	364.6	375.0	379.4	404.6	583.9	1301.3	5800.9	11913.0	13543.3	13709.3
72.5°	329.0	337.9	342.4	364.6	555.8	1207.9	4502.6	10053.0	11730.7	11990.1
75°	290.5	296.4	302.3	321.6	526.1	1070.1	3207.2	7674.3	8984.4	9392.0
77.5°	250.5	250.5	257.9	277.2	443.1	883.3	2152.0	5382.9	6086.9	6503.4
80°	203.0	204.5	201.6	222.3	326.1	604.7	1222.7	3595.5	4050.5	4130.6
82.5°	155.6	151.2	152.7	163.0	243.1	412.0	652.1	2233.5	2276.5	2232.0
85°	97.8	97.8	94.9	106.7	155.6	214.9	355.7	1368.0	1068.6	1016.7
87.5°	40.0	32.6	37.1	43.0	74.1	87.4	139.3	281.6	108.2	99.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)