

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: P452205

Luminaire Tested: **GALN-SA3A-827-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7207 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

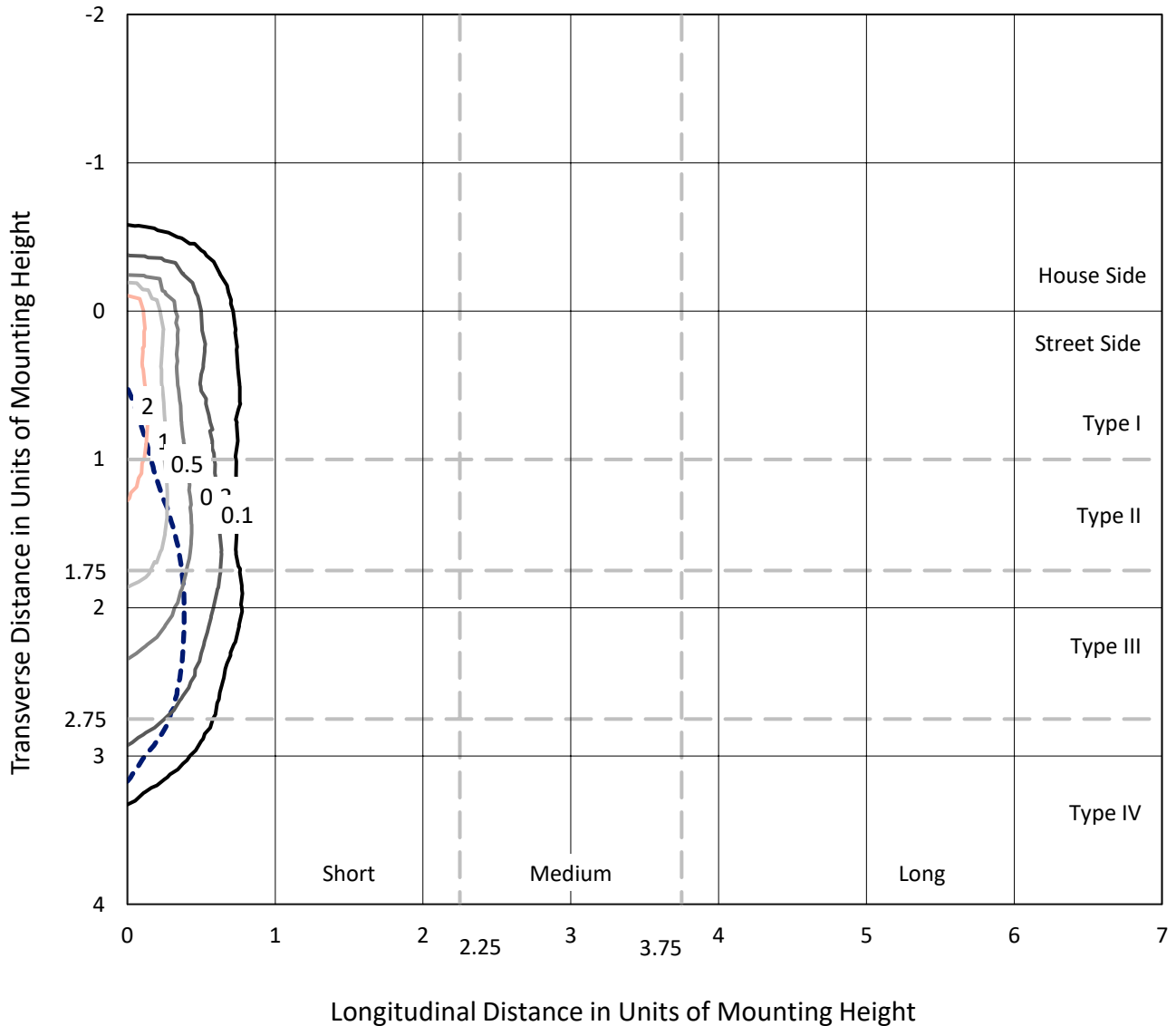
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452205
 CATALOG NUMBER: GALN-SA3A-827-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

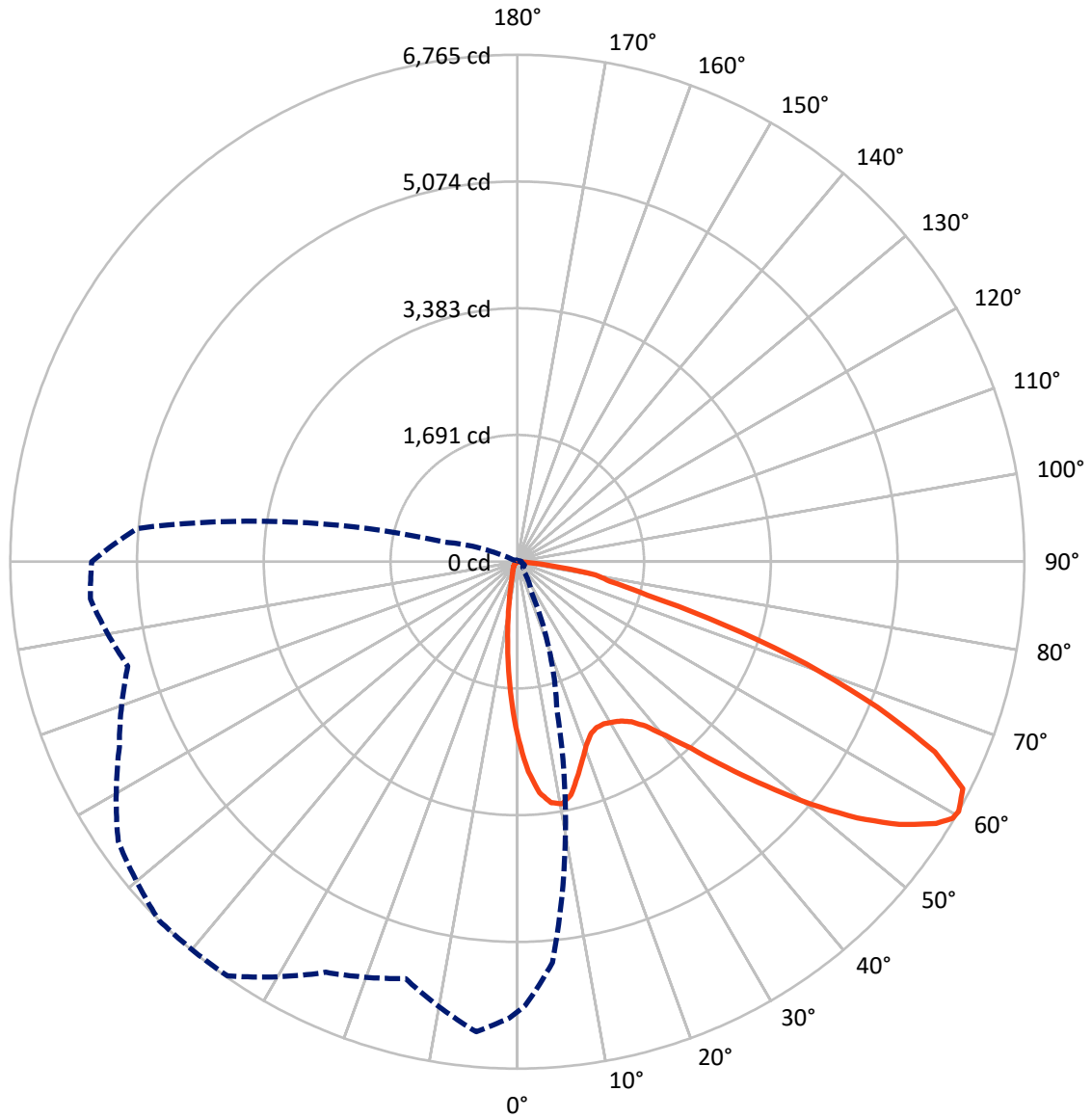
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P452205
CATALOG NUMBER: GALN-SA3A-827-U-SLR-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P452205

CATALOG NUMBER: GALN-SA3A-827-U-SLR-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	888.9	0.0	888.9
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	6318.1	0.0	6318.1
	% Fixture	87.7	0.0	87.7
Total	Lumens	7207.0	0.0	7207.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.2	2.5
10°-20°	351.9	4.9
20°-30°	515.9	7.2
30°-40°	767.3	10.6
40°-50°	1116.6	15.5
50°-60°	1610.2	22.3
60°-70°	1771.1	24.6
70°-80°	793.3	11.0
80°-90°	103.7	1.4
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°	7207.0	100.0
0°-180°	7207.0	100.0



REPORT NUMBER: P452205

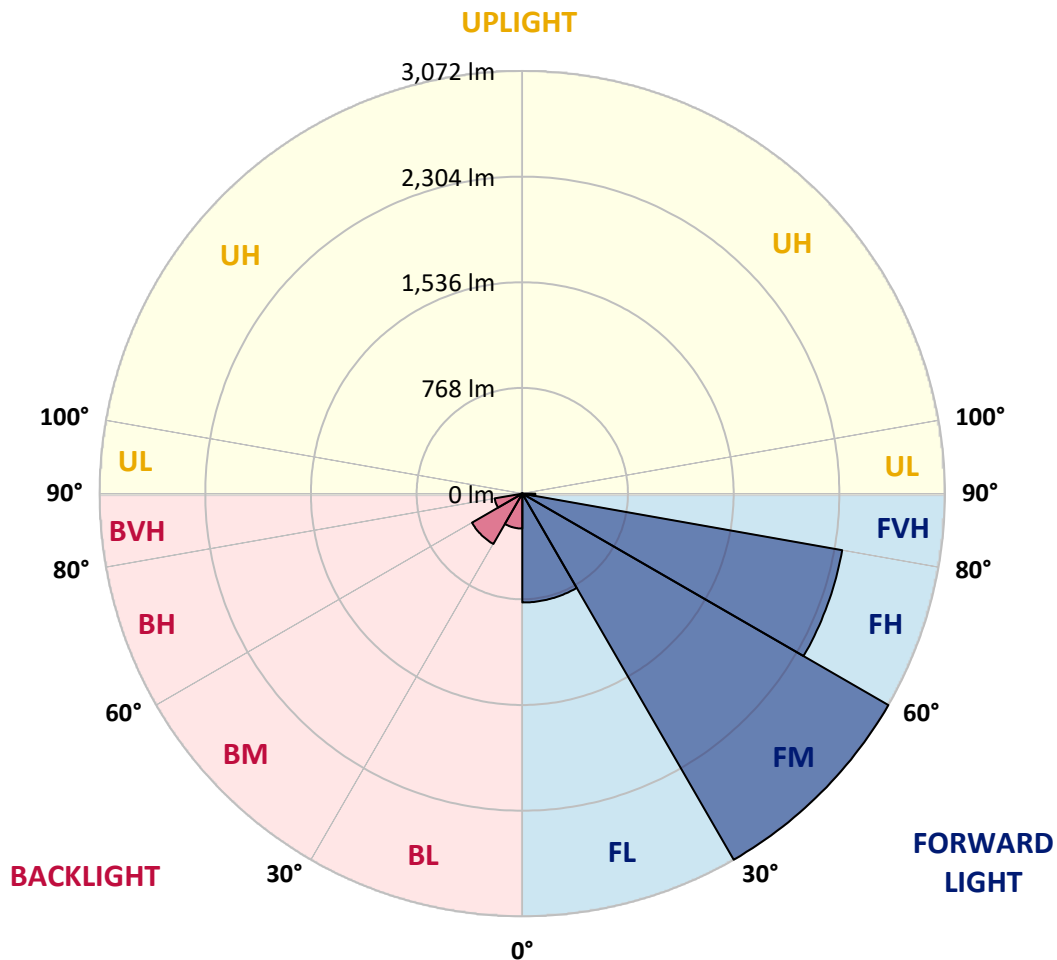
CATALOG NUMBER: GALN-SA3A-827-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	790.9	11.0			
FM (30°-60°)	3071.8	42.6			
FH (60°-80°)	2360.5	32.8			G2/5000
FVH (80°-90°)	94.8	1.3			G1/100
BL (0°-30°)	254.0	3.5	B1/500		
BM (30°-60°)	422.2	5.9	B1/1000		
BH (60°-80°)	203.8	2.8	B1/500		G1/500
BVH (80°-90°)	8.9	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-G2

Type IV Short





REPORT NUMBER: P452205

CATALOG NUMBER: GALN-SA3A-827-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0
2.5°	2618.7	2607.2	2580.9	2500.9	2431.3	2340.4	2248.3	2176.0	2131.7	2050.0	2012.8
5°	2537.1	2542.5	2466.4	2302.0	2119.1	1994.1	1857.7	1749.3	1629.8	1554.2	1474.8
7.5°	2323.9	2313.0	2230.3	2001.3	1778.8	1598.1	1425.5	1285.2	1197.0	1126.4	1067.2
10°	2141.5	2133.3	2027.6	1732.8	1494.0	1358.6	1242.0	1119.2	1024.5	920.9	838.2
12.5°	2027.0	2008.4	1886.8	1578.9	1384.4	1258.4	1131.3	1003.6	872.7	768.1	667.8
15°	1988.7	1961.8	1826.5	1525.7	1314.3	1154.3	994.9	848.1	697.4	581.8	506.2
17.5°	2058.2	2013.9	1869.8	1516.4	1230.5	1018.4	822.3	631.1	474.4	386.2	339.7
20°	2217.7	2166.7	1979.4	1507.1	1137.3	866.1	625.1	445.9	328.2	279.9	254.2
22.5°	2454.3	2384.2	2141.5	1521.9	1051.3	717.7	451.4	315.0	260.8	230.6	212.6
25°	2738.7	2680.0	2347.0	1574.5	983.4	601.0	349.0	257.5	219.7	201.1	187.4
27.5°	3050.4	2956.7	2612.7	1637.5	921.5	510.6	306.2	230.1	195.6	178.6	171.5
30°	3272.3	3199.4	2835.1	1681.3	844.2	442.7	279.9	226.8	196.1	175.9	162.7
32.5°	3491.4	3398.3	3021.3	1701.6	787.8	395.5	242.1	197.8	172.0	161.6	148.5
35°	3725.9	3628.4	3207.1	1690.6	745.6	364.3	219.7	176.4	147.4	129.8	116.7
37.5°	3963.1	3860.1	3391.7	1651.2	719.3	351.7	202.2	167.6	139.2	121.1	106.8
40°	4244.7	4107.2	3564.8	1618.9	691.9	345.1	190.6	162.2	133.1	114.0	99.7
42.5°	4474.8	4343.8	3728.6	1601.9	673.3	329.8	190.6	157.8	129.3	107.9	93.1
45°	4692.8	4556.9	3905.6	1615.6	665.6	310.6	192.8	157.2	126.6	103.5	88.8
47.5°	4875.2	4757.5	4087.4	1667.1	655.8	289.8	181.3	164.9	124.9	99.7	84.4
50°	5090.5	4976.6	4328.0	1771.2	638.2	269.0	167.1	177.5	124.4	96.4	80.5
52.5°	5394.1	5270.8	4659.9	1889.5	610.3	237.2	153.9	175.9	122.2	90.9	76.7
55°	5764.9	5665.2	5044.5	2031.4	571.9	201.6	133.1	156.1	115.6	81.6	70.1
57.5°	6002.7	5917.8	5332.7	2092.8	513.3	164.9	117.2	130.9	105.7	72.9	62.5
59°	6030.6	5953.9	5393.0	2072.5	475.0	150.7	109.6	112.3	103.0	67.9	58.1
60°	6007.1	5927.6	5368.9	2033.0	439.4	140.8	103.0	99.7	103.5	65.2	54.8
62.5°	5855.9	5720.0	5134.9	1833.1	384.0	129.3	91.5	81.6	91.5	58.6	48.8
65°	5563.9	5360.1	4672.0	1551.5	362.1	122.7	77.8	68.5	69.6	51.5	42.2
67.5°	5053.8	4796.9	4055.7	1260.6	352.8	123.3	65.7	61.4	53.7	43.8	37.3
70°	4247.4	3991.0	3254.2	1037.1	348.4	123.3	55.9	52.6	44.9	36.7	32.3
72.5°	3009.8	2733.7	2195.2	814.6	313.9	122.7	47.7	47.7	36.7	30.7	26.3
75°	1700.5	1702.7	1380.0	576.3	260.8	101.4	38.3	37.8	26.8	23.6	19.7
77.5°	991.0	973.5	930.2	247.6	121.1	46.0	26.8	23.0	18.6	17.0	14.2
80°	509.5	419.1	408.1	89.8	43.3	29.0	18.6	13.1	12.1	11.0	9.9
82.5°	150.7	151.2	134.8	36.2	24.1	19.2	9.3	7.1	6.6	6.0	6.0
85°	10.4	6.6	7.7	11.0	14.8	7.7	0.5	1.6	1.6	2.2	2.7
87.5°	1.1	0.5	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: P452205

CATALOG NUMBER: GALN-SA3A-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0
2.5°	1971.7	1995.8	1950.9	1952.0	1914.7	1926.8	1882.9	1897.2	1871.4	1891.2	1949.2
5°	1483.6	1489.0	1452.9	1441.4	1446.9	1469.3	1478.1	1438.1	1455.1	1421.6	1419.5
7.5°	1045.3	1051.9	1031.0	1028.3	1067.7	1058.4	1075.4	1034.3	995.4	1012.4	981.2
10°	811.9	784.5	741.8	729.7	722.1	727.0	727.0	689.7	684.3	669.5	691.9
12.5°	641.0	607.6	567.0	512.2	498.5	497.4	477.2	444.3	433.9	421.3	439.9
15°	465.7	452.0	418.0	387.3	356.1	350.1	317.2	290.4	254.7	249.8	248.2
17.5°	327.6	307.3	306.8	289.3	271.2	259.1	228.5	197.8	184.1	182.4	182.4
20°	245.4	238.3	226.8	224.6	219.1	205.4	178.0	161.6	155.0	155.6	157.8
22.5°	206.5	201.6	191.2	186.3	184.1	172.0	151.8	140.8	137.5	137.5	138.1
25°	184.6	180.2	168.7	161.1	158.3	149.6	133.7	125.5	122.7	122.7	122.7
27.5°	168.2	162.7	150.7	144.1	139.2	129.3	119.4	111.2	108.5	108.5	109.0
30°	156.7	150.7	139.7	130.9	123.3	114.5	106.3	99.2	95.9	95.3	95.9
32.5°	141.3	135.9	124.9	119.4	110.7	100.3	93.7	87.1	83.8	84.4	83.8
35°	110.1	108.5	100.8	102.4	97.5	88.8	82.7	75.6	71.8	71.2	72.3
37.5°	100.3	93.7	84.9	85.5	83.8	80.5	70.7	63.0	60.3	60.3	60.8
40°	92.6	86.0	76.2	71.2	71.8	71.8	61.4	53.1	50.4	49.9	50.9
42.5°	86.0	79.4	68.5	60.3	58.1	60.8	52.0	43.8	41.1	40.0	41.1
45°	81.6	74.5	61.9	52.6	46.0	49.3	42.7	36.2	32.9	32.9	32.3
47.5°	77.2	70.7	57.0	45.5	38.3	36.7	35.1	29.0	25.7	25.2	25.7
50°	73.4	66.8	51.5	39.4	32.3	28.5	28.5	23.0	20.8	19.7	20.3
52.5°	69.6	62.5	46.6	35.1	27.9	23.0	20.3	18.6	17.0	16.4	17.0
55°	64.1	57.0	41.6	30.1	24.1	19.2	15.9	15.3	14.2	13.1	14.2
57.5°	57.5	50.9	36.7	25.7	19.2	14.8	13.1	12.6	11.5	11.0	11.0
59°	53.7	47.7	34.0	22.5	17.0	13.1	12.1	11.5	10.4	9.3	9.9
60°	51.5	46.6	32.3	20.8	15.3	12.1	11.0	10.4	9.3	8.8	9.3
62.5°	45.5	41.6	28.5	17.0	12.1	8.8	7.7	8.2	7.7	7.1	7.7
65°	40.0	36.7	24.1	13.1	9.3	6.0	5.5	7.1	6.6	6.0	6.6
67.5°	35.6	31.8	20.3	9.9	6.6	3.3	3.8	6.0	6.0	5.5	6.0
70°	30.7	27.4	16.4	7.1	3.3	1.6	2.7	4.4	5.5	4.9	5.5
72.5°	25.2	21.4	12.6	4.9	1.6	0.0	1.6	3.8	5.5	4.9	5.5
75°	19.7	15.9	9.3	2.7	0.0	0.0	0.5	3.3	5.5	4.9	5.5
77.5°	14.2	11.5	5.5	0.5	0.0	0.0	0.5	3.3	5.5	4.9	5.5
80°	9.3	8.2	2.2	0.0	0.0	0.0	0.5	3.3	5.5	5.5	6.0
82.5°	6.0	4.4	0.0	0.0	0.0	0.0	1.1	4.4	6.0	6.6	6.6
85°	2.7	0.0	0.0	0.0	0.0	0.0	2.2	5.5	7.1	7.1	7.1
87.5°	0.0	0.0	0.0	0.0	0.0	1.1	3.8	6.6	8.2	8.2	8.2
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: P452205

CATALOG NUMBER: GALN-SA3A-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0
2.5°	1959.1	1993.6	2042.4	2117.4	2178.2	2274.1	2347.5	2447.8	2549.1	2579.8	2627.4
5°	1441.9	1486.3	1597.0	1697.8	1761.3	1964.0	2092.2	2294.4	2475.7	2562.8	2657.6
7.5°	1001.5	1054.0	1138.4	1279.2	1412.9	1577.8	1784.9	2016.1	2281.8	2406.1	2539.8
10°	702.9	768.6	887.5	1003.1	1171.3	1328.0	1532.3	1787.6	2080.7	2227.5	2395.2
12.5°	443.8	502.4	659.6	789.4	999.3	1181.1	1369.6	1600.8	1940.5	2091.1	2267.0
15°	253.7	303.0	376.4	542.9	775.7	1016.2	1251.3	1519.7	1868.7	2054.4	2244.5
17.5°	189.0	202.2	235.0	329.3	541.3	822.3	1142.3	1495.1	1917.4	2135.5	2352.4
20°	158.9	167.6	183.0	220.2	345.1	633.3	1036.0	1499.4	2075.2	2349.1	2555.1
22.5°	142.4	147.9	160.5	184.6	235.6	461.3	911.6	1525.2	2266.4	2611.6	2849.3
25°	124.9	132.0	143.0	163.8	196.1	319.9	788.9	1582.7	2534.3	2944.7	3168.2
27.5°	111.2	117.8	128.7	147.9	172.0	244.3	645.9	1632.0	2817.0	3279.9	3462.9
30°	97.5	104.1	115.0	130.4	152.3	197.8	492.0	1661.1	3091.5	3531.4	3672.2
32.5°	86.0	91.5	101.9	115.6	133.7	167.6	387.9	1630.9	3301.3	3759.8	3854.1
35°	74.5	81.1	89.8	102.4	118.3	143.0	322.7	1526.8	3481.5	3994.9	4028.8
37.5°	62.5	70.1	79.4	90.9	103.5	131.5	259.1	1411.8	3674.4	4288.0	4232.1
40°	52.6	59.7	68.5	81.1	92.6	120.5	199.4	1289.1	3882.6	4563.0	4454.0
42.5°	42.7	50.4	60.8	72.3	91.5	105.2	154.5	1162.0	4069.4	4802.4	4654.5
45°	34.0	40.5	51.5	66.3	90.9	90.4	119.4	1036.5	4210.2	4973.3	4804.0
47.5°	26.8	32.3	43.3	64.6	83.8	76.7	95.9	958.7	4358.1	5127.3	4918.5
50°	21.4	26.8	37.3	67.4	73.4	65.7	80.5	971.3	4501.1	5205.6	4965.6
52.5°	18.1	23.6	32.3	53.1	56.4	57.5	70.7	1029.4	4685.7	5289.4	5059.3
55°	15.9	20.8	27.4	37.3	43.8	51.5	64.6	1071.6	4932.8	5469.1	5265.9
57.5°	12.6	18.1	24.7	31.8	36.2	44.9	59.7	1074.9	5156.3	5699.7	5540.3
59°	11.5	16.4	23.0	30.1	32.3	40.5	56.4	1046.9	5164.5	5734.3	5666.3
60°	10.4	15.9	21.9	27.9	30.7	38.3	53.7	1014.6	5090.0	5679.5	5718.4
62.5°	8.8	13.7	19.2	22.5	26.3	31.8	46.6	897.4	4729.0	5431.3	5622.0
65°	7.7	12.1	16.4	18.6	21.9	27.4	41.1	718.2	4330.1	5094.9	5345.8
67.5°	7.1	11.0	14.2	15.9	19.2	25.2	36.7	507.3	3813.5	4668.2	4931.1
70°	6.6	10.4	12.6	14.8	17.0	21.4	31.2	295.8	2937.5	3919.8	4197.6
72.5°	6.6	9.9	11.0	12.6	14.8	19.2	29.0	160.0	2008.4	2990.1	3349.0
75°	6.6	9.3	9.9	11.0	13.1	17.5	25.7	83.8	1298.4	2077.4	2563.9
77.5°	6.6	8.8	9.9	10.4	12.6	15.3	22.5	52.6	865.0	1455.1	1732.8
80°	7.1	8.8	9.3	10.4	12.1	14.2	18.6	35.1	508.4	875.5	1054.6
82.5°	7.7	8.8	9.9	11.0	12.6	13.7	16.4	21.9	234.5	579.1	655.2
85°	8.2	9.3	10.4	11.5	13.1	13.7	15.3	15.9	38.3	261.3	353.4
87.5°	8.8	9.9	11.0	12.1	14.2	14.2	14.2	14.2	13.1	27.9	71.2
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: P452205

CATALOG NUMBER: GALN-SA3A-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0
2.5°	2687.7	2749.6	2792.9	2803.9	2772.6	2758.4	2718.9	2657.6	2620.3	2618.7
5°	2832.3	2977.5	3078.3	3095.3	3035.0	2933.1	2812.1	2655.9	2564.4	2537.1
7.5°	2807.7	3061.9	3224.0	3247.6	3146.3	2951.8	2717.3	2465.8	2366.1	2323.9
10°	2706.3	3016.4	3248.2	3285.4	3150.1	2876.2	2578.1	2297.6	2173.8	2141.5
12.5°	2619.8	2933.1	3139.1	3190.6	3088.2	2814.8	2494.9	2189.7	2057.1	2027.0
15°	2582.0	2834.5	2960.5	2986.8	2969.9	2776.5	2486.1	2173.3	2021.5	1988.7
17.5°	2619.8	2750.7	2766.6	2793.4	2831.2	2772.6	2570.5	2262.6	2098.8	2058.2
20°	2718.9	2677.9	2612.1	2623.6	2710.2	2788.5	2720.6	2460.4	2260.9	2217.7
22.5°	2887.7	2659.8	2510.8	2500.9	2610.5	2841.7	2940.8	2728.3	2497.1	2454.3
25°	3094.8	2705.2	2473.5	2452.1	2571.6	2919.4	3180.2	3056.4	2803.9	2738.7
27.5°	3320.5	2799.5	2473.5	2452.7	2568.3	2988.5	3385.1	3346.8	3121.6	3050.4
30°	3444.3	2877.3	2509.1	2485.6	2608.8	3028.5	3494.7	3604.8	3360.5	3272.3
32.5°	3554.9	2985.2	2578.7	2534.3	2693.7	3087.6	3592.7	3823.9	3550.6	3491.4
35°	3656.8	3100.8	2674.6	2623.1	2805.5	3168.7	3701.2	4054.0	3815.2	3725.9
37.5°	3769.2	3235.0	2824.1	2780.3	2992.3	3326.5	3830.0	4356.4	4075.4	3963.1
40°	3891.3	3390.6	3070.1	3051.5	3289.2	3505.1	3992.7	4679.1	4372.3	4244.7
42.5°	4015.7	3569.7	3371.4	3402.1	3625.6	3755.5	4159.8	4927.3	4615.6	4474.8
45°	4128.5	3798.7	3763.1	3914.9	4017.9	3999.8	4283.6	5102.1	4827.6	4692.8
47.5°	4271.0	4132.4	4237.0	4470.9	4473.7	4265.5	4377.3	5245.0	5010.0	4875.2
50°	4430.4	4526.3	4848.9	5087.3	5023.2	4526.8	4486.8	5414.3	5198.5	5090.5
52.5°	4615.0	4967.3	5414.3	5678.9	5529.4	4811.7	4669.3	5597.3	5497.6	5394.1
55°	4829.8	5268.0	5978.1	6189.0	6038.3	5165.6	4946.5	5845.5	5835.6	5764.9
57.5°	5072.5	5585.8	6304.6	6590.0	6455.8	5580.9	5333.8	6079.4	6042.1	6002.7
59°	5264.2	5749.1	6448.6	6744.5	6663.4	5871.8	5594.0	6225.1	6089.8	6030.6
60°	5380.4	5859.7	6501.8	6765.3	6746.7	6044.9	5758.9	6296.3	6089.3	6007.1
62.5°	5724.9	6053.1	6481.5	6672.7	6745.6	6376.9	6242.7	6374.7	5976.4	5855.9
65°	5847.7	5989.0	6145.7	6122.1	6184.6	6359.9	6551.6	6288.7	5735.4	5563.9
67.5°	5608.8	5286.1	5341.5	5184.2	5153.5	5654.3	6426.2	5867.9	5263.7	5053.8
70°	4727.9	4049.6	4021.7	4094.0	3895.7	4577.8	5770.4	5057.7	4485.2	4247.4
72.5°	3721.5	2861.9	2626.4	2892.6	2886.6	3492.5	4793.6	3588.9	3030.1	3009.8
75°	2926.6	1992.5	1748.7	1792.0	1875.3	2528.3	3817.9	2279.0	1865.9	1700.5
77.5°	1964.6	1411.8	1317.0	1263.9	1353.7	1623.3	2415.4	1235.9	1046.4	991.0
80°	1132.4	1025.6	1164.7	1057.3	1105.5	1022.8	1201.4	567.0	470.6	509.5
82.5°	736.8	584.0	622.3	462.4	632.2	637.7	385.7	167.6	141.9	150.7
85°	460.7	273.9	153.9	109.6	218.0	401.0	120.5	10.4	12.1	10.4
87.5°	119.4	45.5	19.2	28.5	35.1	31.2	27.9	1.6	0.5	1.1
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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