

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: P451508

Luminaire Tested: **GALN-SA2B-827-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451508
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-SA2B-827-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 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: 7251 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

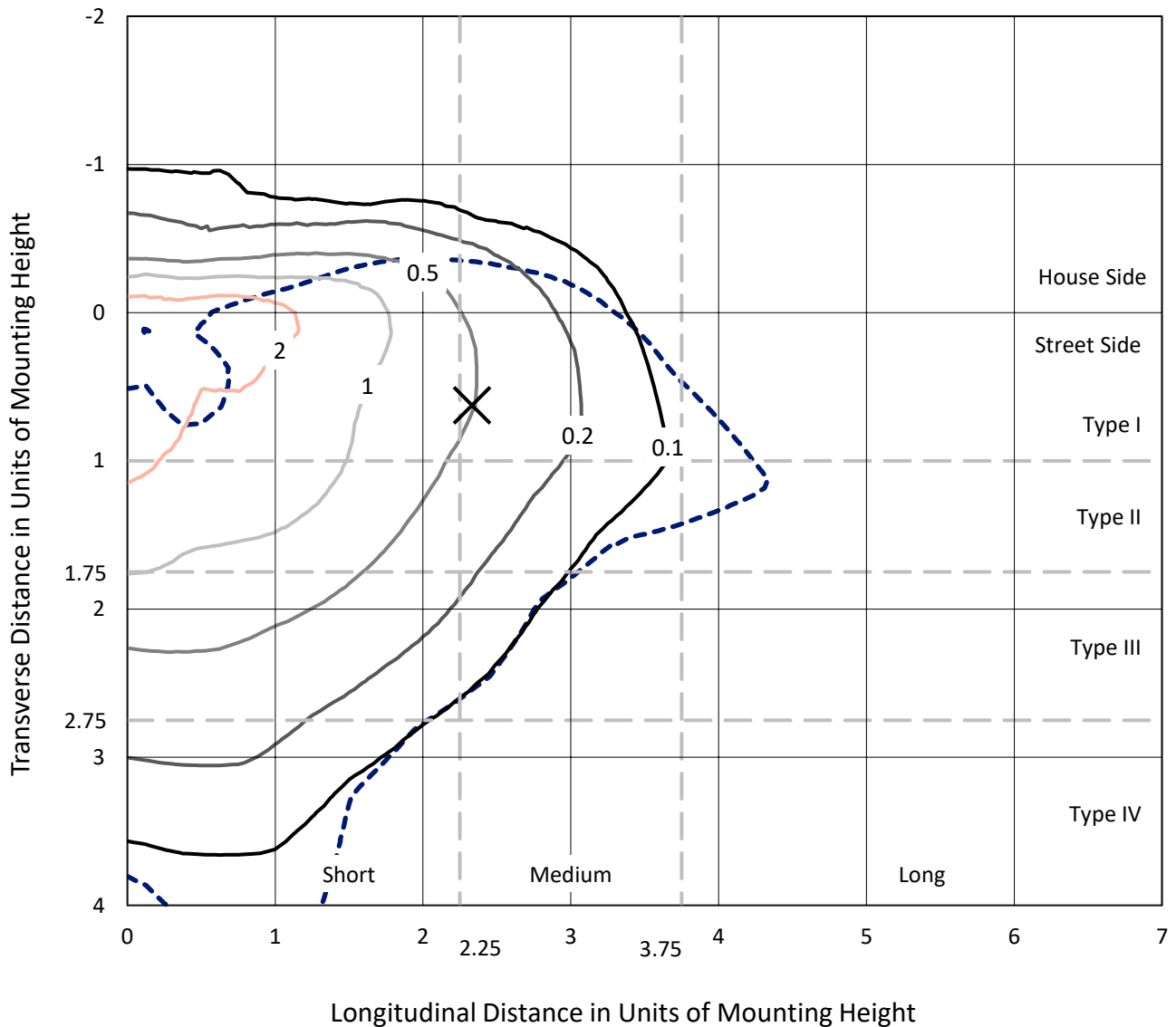
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451508
 CATALOG NUMBER: GALN-SA2B-827-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

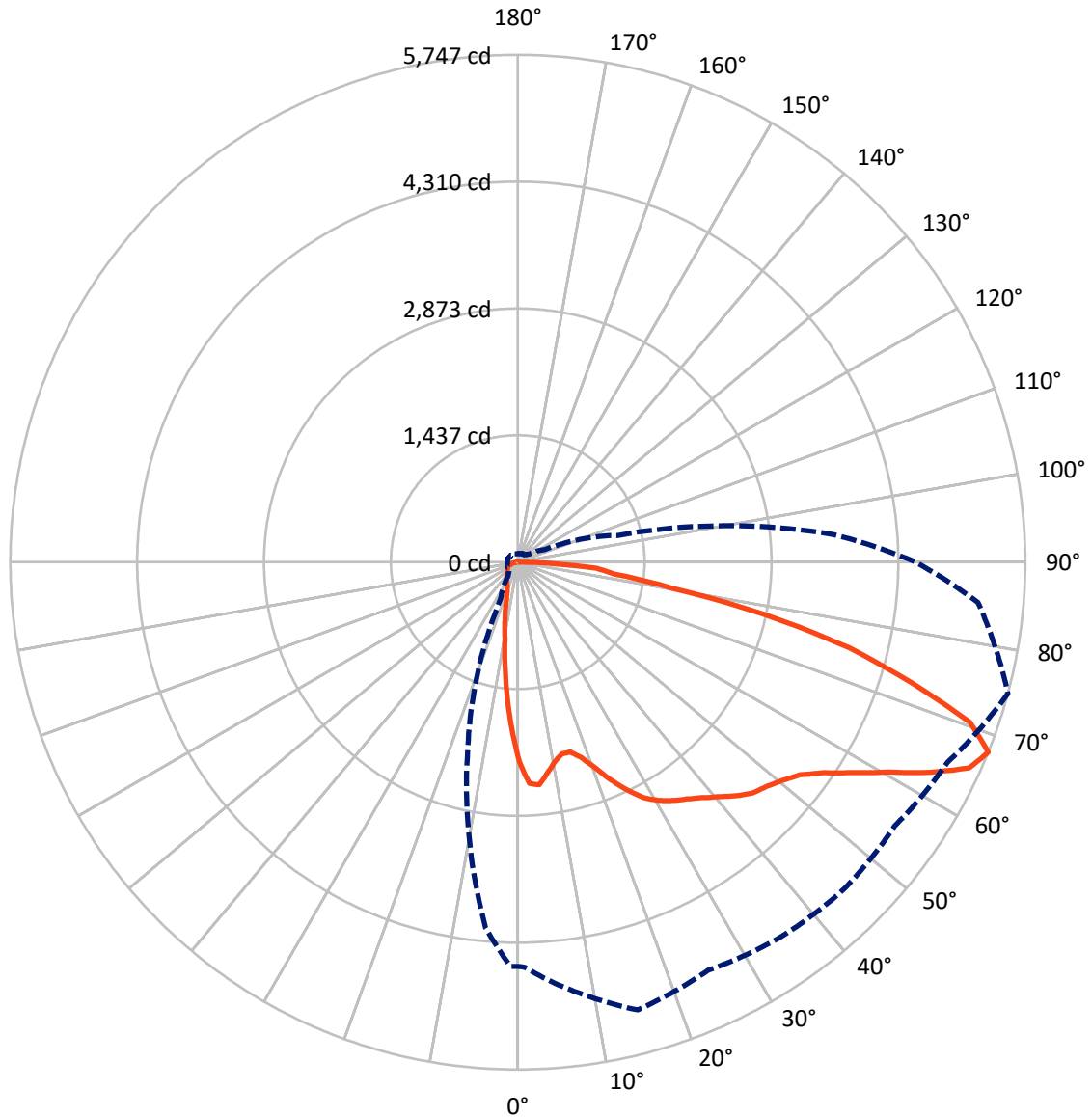
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P451508
CATALOG NUMBER: GALN-SA2B-827-U-SLL

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P451508

CATALOG NUMBER: GALN-SA2B-827-U-SLL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1225.6	0.0	1225.6
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	6025.4	0.0	6025.4
	% Fixture	83.1	0.0	83.1
Total	Lumens	7251.0	0.0	7251.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.8	2.4
10°-20°	358.3	4.9
20°-30°	515.7	7.1
30°-40°	742.7	10.2
40°-50°	1043.3	14.4
50°-60°	1455.0	20.1
60°-70°	1729.9	23.9
70°-80°	1018.8	14.1
80°-90°	215.4	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°	7251.0	100.0
0°-180°	7251.0	100.0

Coefficient of Utilization

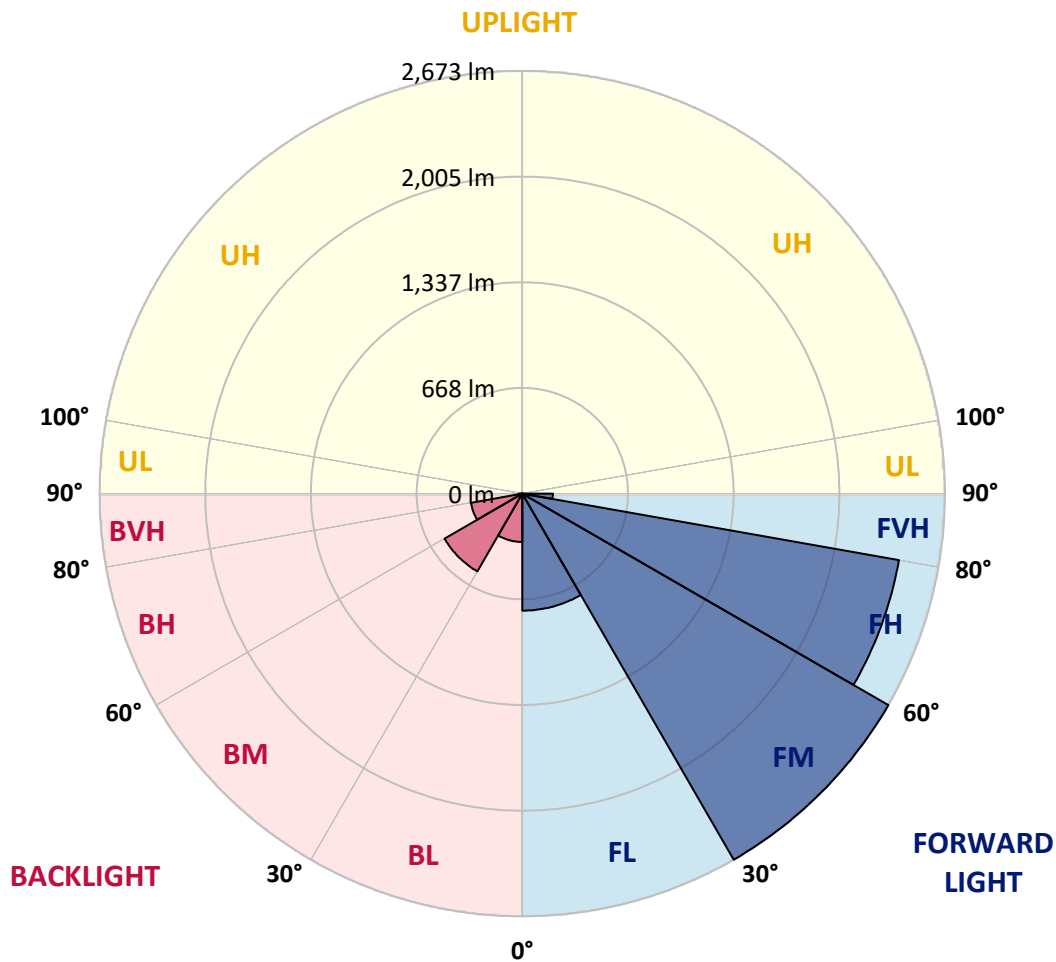


REPORT NUMBER: P451508
 CATALOG NUMBER: GALN-SA2B-827-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	740.1	10.2			
FM (30°-60°)	2673.2	36.9			
FH (60°-80°)	2419.0	33.4			G2/5000
FVH (80°-90°)	193.2	2.7			G2/225
BL (0°-30°)	305.7	4.2	B1/500		
BM (30°-60°)	567.8	7.8	B1/1000		
BH (60°-80°)	329.8	4.5	B1/500		G1/500
BVH (80°-90°)	22.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





REPORT NUMBER: P451508

CATALOG NUMBER: GALN-SA2B-827-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2265.4	2265.4	2265.4	2265.4	2265.4	2265.4	2265.4	2265.4	2265.4	2265.4	2265.4
2.5°	2442.5	2445.8	2466.7	2527.6	2569.5	2584.8	2595.5	2575.5	2556.0	2508.6	2437.0
5°	2435.1	2454.2	2508.6	2645.3	2753.1	2799.6	2813.6	2753.6	2654.6	2532.7	2386.3
7.5°	2292.8	2318.4	2402.1	2631.3	2821.5	2930.3	2915.9	2807.6	2629.0	2411.9	2207.3
10°	2124.0	2152.4	2253.3	2530.4	2775.5	2925.2	2925.2	2793.1	2556.0	2297.9	2062.2
12.5°	1990.1	2019.9	2135.2	2426.7	2679.7	2821.5	2845.2	2731.8	2503.5	2225.9	1966.9
15°	1945.9	1974.8	2098.9	2364.0	2578.3	2664.8	2672.7	2635.5	2477.9	2231.0	1962.7
17.5°	2000.8	2038.0	2163.6	2382.6	2485.3	2490.4	2496.5	2525.8	2480.7	2324.4	2047.3
20°	2159.4	2199.4	2330.5	2442.5	2403.9	2350.9	2354.2	2429.5	2513.7	2478.8	2249.6
22.5°	2388.1	2423.0	2557.4	2548.1	2369.5	2260.3	2237.5	2342.6	2562.5	2671.3	2464.9
25°	2635.0	2676.0	2830.3	2704.8	2379.3	2206.3	2191.9	2291.4	2613.2	2851.3	2713.6
27.5°	2917.8	2957.7	3079.6	2862.9	2430.5	2202.1	2184.9	2286.8	2658.8	3017.7	2951.2
30°	3127.9	3164.7	3247.4	2995.9	2493.2	2230.0	2208.7	2323.5	2697.8	3131.6	3182.8
32.5°	3293.0	3331.1	3376.2	3078.6	2576.0	2280.7	2241.2	2390.5	2749.0	3218.6	3354.4
35°	3465.0	3510.1	3506.9	3152.1	2653.2	2339.3	2300.7	2487.2	2829.4	3294.4	3572.0
37.5°	3683.1	3701.2	3678.0	3218.1	2745.7	2444.9	2423.5	2630.9	2943.8	3386.0	3826.3
40°	3904.4	3940.7	3821.2	3298.1	2858.2	2643.4	2641.1	2843.4	3079.6	3493.4	4072.8
42.5°	4094.2	4124.8	3955.1	3367.9	2994.5	2885.7	2903.3	3128.4	3257.7	3618.0	4270.8
45°	4236.9	4264.3	4078.8	3435.3	3174.0	3165.6	3269.7	3433.9	3482.2	3730.1	4387.1
47.5°	4358.3	4384.8	4164.8	3537.6	3395.8	3499.9	3681.2	3752.4	3674.3	3794.2	4517.3
50°	4460.6	4468.5	4223.9	3659.4	3671.0	3909.6	4085.3	4131.3	3864.0	3886.3	4630.3
52.5°	4567.0	4556.8	4325.7	3812.8	3968.6	4298.3	4426.1	4474.0	4045.8	3999.8	4794.9
55°	4805.6	4815.3	4554.0	4006.3	4269.4	4680.0	4848.3	4802.3	4247.1	4208.5	5004.1
57.5°	5093.9	5085.5	4875.3	4309.0	4575.9	5035.3	5160.8	5086.9	4515.9	4495.4	5216.1
60°	5205.9	5217.1	5144.1	4634.5	4878.1	5346.3	5474.7	5359.8	4838.1	4828.8	5376.1
62.5°	5093.4	5156.2	5205.5	4924.1	5135.7	5575.1	5702.5	5571.4	5174.3	5241.7	5488.2
65°	4869.3	4882.8	5050.6	5169.7	5259.9	5612.8	5679.3	5609.5	5455.1	5617.9	5483.0
67.5°	4578.2	4589.8	4786.5	5250.1	5099.9	5185.0	5231.5	5211.0	5368.2	5746.7	5230.6
70°	4301.1	4291.8	4499.6	5045.0	4439.6	4310.4	4349.0	4284.8	4632.1	5431.9	4735.4
72.5°	3761.7	3795.2	4018.4	4475.0	3515.3	3305.1	3389.2	3223.2	3562.7	4652.1	3843.5
75°	2946.6	2954.5	3326.9	3755.6	2651.8	2320.3	2434.2	2364.9	2729.0	3880.7	2654.1
77.5°	2040.3	2022.7	2423.0	2868.5	1891.1	1698.6	1700.4	1667.4	1905.5	2857.3	1803.2
80°	1295.9	1268.9	1516.8	1772.0	1299.6	1390.3	1344.7	1343.3	1240.6	1762.7	1090.4
82.5°	700.3	730.0	958.3	1110.8	932.3	1074.6	984.8	956.0	851.4	1103.4	697.5
85°	319.0	346.9	511.0	755.6	708.2	716.1	478.5	564.5	704.4	896.0	372.4
87.5°	31.2	40.0	105.6	356.6	241.8	190.6	71.1	137.2	177.2	318.5	29.8
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: P451508
 CATALOG NUMBER: GALN-SA2B-827-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2265.4	2265.4	2265.4	2265.4	2265.4	2265.4	2265.4	2265.4	2265.4	2265.4	2265.4
2.5°	2407.7	2383.5	2301.2	2233.3	2161.2	2106.4	2034.8	1986.9	1953.8	1904.1	1898.0
5°	2297.0	2238.0	2094.7	1948.7	1822.7	1727.9	1631.6	1543.3	1491.2	1474.9	1454.0
7.5°	2110.5	2011.0	1826.9	1659.5	1514.9	1373.6	1264.7	1187.6	1135.9	1105.7	1069.5
10°	1957.1	1841.8	1617.7	1412.6	1293.6	1205.7	1109.9	1027.1	963.4	909.0	879.3
12.5°	1853.9	1723.7	1471.7	1305.2	1213.1	1119.7	1007.6	914.6	820.7	758.8	732.3
15°	1822.7	1685.1	1426.6	1251.7	1119.7	997.4	871.8	750.5	657.5	598.9	579.4
17.5°	1899.0	1732.5	1426.1	1180.6	1009.9	863.9	703.1	589.1	493.8	450.1	436.2
20°	2041.3	1823.7	1430.3	1110.4	890.9	685.4	511.5	418.0	372.4	353.9	346.9
22.5°	2239.8	1962.7	1442.8	1041.1	760.7	526.4	383.1	335.7	319.4	316.2	314.8
25°	2484.4	2134.7	1485.1	978.8	651.0	401.7	320.4	299.0	289.7	286.4	286.0
27.5°	2709.4	2357.0	1536.3	925.3	545.0	346.4	289.7	271.5	262.2	261.8	262.7
30°	2912.6	2543.0	1579.1	865.3	464.5	307.8	269.7	251.6	242.7	242.3	245.0
32.5°	3088.4	2696.0	1610.7	806.3	419.9	284.1	251.6	232.0	224.6	223.2	224.6
35°	3276.3	2848.5	1596.3	760.2	394.3	264.6	238.1	219.0	210.2	206.0	206.0
37.5°	3490.6	3005.6	1571.6	722.1	382.7	248.3	226.4	207.8	199.0	194.8	194.4
40°	3724.5	3162.8	1537.7	688.2	371.1	238.5	218.5	199.0	188.3	184.1	183.2
42.5°	3930.9	3297.2	1509.8	665.9	352.0	240.4	211.6	192.5	179.0	173.4	173.0
45°	4110.4	3432.5	1504.7	652.8	336.2	237.6	209.7	187.4	171.6	165.5	164.6
47.5°	4250.8	3573.4	1534.0	645.4	319.0	222.7	221.8	184.1	165.1	158.6	157.6
50°	4422.0	3773.3	1600.9	630.0	303.2	208.8	234.4	183.7	160.0	151.6	149.3
52.5°	4649.8	4033.7	1691.6	602.6	280.4	195.8	223.7	183.7	153.9	145.5	142.7
55°	4994.4	4365.7	1780.4	564.0	248.3	178.6	201.8	178.1	145.1	137.6	135.8
57.5°	5222.7	4608.4	1837.1	510.5	208.3	166.0	173.9	169.3	136.2	128.3	128.3
60°	5234.3	4673.5	1810.2	443.1	183.2	154.4	151.1	170.6	128.3	120.0	119.0
62.5°	5100.4	4514.0	1669.7	382.7	169.7	141.8	136.7	149.7	120.4	112.1	110.7
65°	4891.1	4107.2	1426.1	353.9	162.3	130.7	123.2	122.8	112.1	104.2	102.3
67.5°	4506.6	3589.2	1171.8	337.1	158.6	118.1	111.1	108.8	102.3	95.8	94.9
70°	3939.8	3006.1	939.7	330.1	156.7	105.1	99.5	96.7	91.1	86.0	85.6
72.5°	3065.2	2438.4	775.6	325.5	155.8	93.0	87.0	83.2	80.0	75.3	75.3
75°	2201.7	1793.9	591.9	293.4	144.1	80.0	73.5	71.1	66.5	62.8	63.7
77.5°	1388.0	1208.0	389.7	215.8	111.6	64.2	58.6	57.2	53.5	48.4	51.6
80°	937.4	849.5	227.4	135.8	70.2	47.0	45.1	44.6	40.5	34.9	35.3
82.5°	638.0	625.9	118.1	77.2	40.5	27.4	26.5	27.4	22.8	18.6	18.6
85°	249.2	340.4	55.8	30.2	13.0	4.2	6.0	6.5	3.7	1.9	2.3
87.5°	4.6	34.9	1.4	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: P451508
 CATALOG NUMBER: GALN-SA2B-827-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2265.4	2265.4	2265.4	2265.4	2265.4	2265.4	2265.4	2265.4	2265.4	2265.4	2265.4
2.5°	1888.7	1884.6	1891.5	1861.8	1867.8	1879.0	1884.6	1887.8	1933.9	1923.2	1952.5
5°	1473.5	1469.3	1496.3	1500.0	1514.0	1511.2	1524.7	1527.9	1544.7	1550.7	1591.6
7.5°	1071.8	1089.9	1120.6	1136.4	1160.1	1167.6	1160.6	1177.8	1142.9	1168.0	1175.5
10°	861.1	839.3	826.3	862.5	867.2	901.6	887.6	876.5	896.9	897.9	917.4
12.5°	717.0	670.0	638.9	649.1	660.3	675.2	677.5	699.8	714.7	728.6	740.2
15°	562.2	545.9	517.5	503.6	519.4	525.4	539.8	558.4	574.3	578.4	594.2
17.5°	431.5	434.3	429.6	421.3	431.0	435.7	436.6	437.1	441.3	438.5	461.7
20°	347.3	357.1	368.7	370.6	373.8	376.2	372.0	356.2	356.6	366.4	373.8
22.5°	314.3	316.2	329.2	333.4	343.6	339.4	327.3	319.9	319.0	321.3	325.0
25°	288.3	291.1	300.4	306.9	314.8	307.4	298.5	291.5	290.6	292.9	296.7
27.5°	265.0	269.2	277.6	284.1	291.5	284.6	276.2	270.2	269.7	269.2	271.5
30°	246.4	251.1	257.1	264.6	269.7	263.6	255.7	252.5	252.0	251.1	252.0
32.5°	227.8	235.3	241.3	245.0	250.2	245.5	239.5	237.6	234.4	231.6	230.2
35°	206.9	214.8	224.1	228.8	233.9	229.2	225.1	217.1	211.6	211.1	212.0
37.5°	194.8	198.1	205.5	213.4	218.5	216.2	208.3	200.4	199.0	199.0	199.9
40°	184.1	185.5	188.8	199.0	208.3	201.3	191.6	189.2	189.2	188.8	189.2
42.5°	173.4	174.8	174.8	182.7	197.6	186.5	179.0	179.0	179.0	179.5	180.9
45°	163.7	164.1	163.7	169.3	183.2	173.9	168.8	170.2	171.1	172.0	173.0
47.5°	155.3	155.8	155.3	160.0	166.9	163.2	160.4	162.3	164.1	165.5	166.5
50°	147.9	147.4	148.3	151.1	154.4	155.3	153.4	156.2	157.2	159.0	161.3
52.5°	141.4	140.9	141.8	143.2	147.9	147.9	147.9	150.2	152.0	153.9	157.2
55°	133.9	134.4	135.8	137.6	143.7	142.7	143.2	145.1	146.9	149.7	151.6
57.5°	126.9	127.9	129.7	132.5	138.6	138.1	138.6	139.5	141.8	143.2	145.1
60°	119.0	120.9	123.2	125.1	131.1	130.7	133.0	134.8	136.2	136.2	137.2
62.5°	111.1	113.9	116.2	117.6	124.1	124.6	127.9	129.3	130.2	129.3	130.7
65°	103.2	107.4	108.3	110.2	116.7	117.2	120.9	124.1	123.2	122.3	124.6
67.5°	95.3	100.4	100.0	102.3	108.8	109.7	113.0	118.6	116.7	115.8	117.6
70°	86.5	90.2	90.7	92.1	100.9	99.5	104.6	109.7	108.3	108.8	108.8
72.5°	76.7	80.0	80.0	82.8	92.1	89.7	93.9	99.5	99.5	99.0	99.0
75°	65.1	67.0	68.8	73.0	82.8	80.0	82.8	87.9	88.8	87.9	87.9
77.5°	52.5	55.3	56.3	61.8	68.8	68.4	71.1	73.5	75.3	74.4	74.4
80°	37.2	40.0	43.7	49.8	53.9	55.3	56.7	58.6	59.5	59.5	60.4
82.5°	20.9	25.1	28.4	34.4	36.3	43.2	42.8	44.2	42.8	37.7	41.8
85°	4.6	8.8	12.6	15.8	18.1	25.1	26.5	29.8	24.6	22.8	22.8
87.5°	0.0	0.0	0.0	0.0	0.0	3.7	7.4	10.2	8.8	7.4	7.4
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: P451508
 CATALOG NUMBER: GALN-SA2B-827-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2265.4	2265.4	2265.4	2265.4	2265.4	2265.4	2265.4	2265.4	2265.4	2265.4
2.5°	1977.1	2017.5	2066.4	2150.5	2209.6	2273.3	2337.5	2405.8	2423.9	2442.5
5°	1602.8	1682.3	1725.5	1838.5	1957.1	2107.8	2231.0	2365.8	2422.1	2435.1
7.5°	1214.1	1268.0	1381.5	1495.8	1642.8	1800.9	1989.7	2199.8	2265.4	2292.8
10°	962.5	1036.0	1135.5	1258.2	1387.0	1557.2	1770.2	2015.7	2108.7	2124.0
12.5°	819.3	901.1	1009.5	1139.2	1261.0	1389.4	1604.2	1857.6	1957.1	1990.1
15°	655.2	754.2	879.3	1016.0	1148.5	1288.9	1506.5	1792.5	1907.3	1945.9
17.5°	514.7	594.7	730.0	878.3	1035.5	1213.1	1486.1	1823.7	1965.0	2000.8
20°	393.8	451.0	565.0	721.6	905.8	1138.3	1491.2	1941.3	2110.5	2159.4
22.5°	340.4	369.7	438.9	588.2	794.2	1073.2	1512.1	2102.6	2306.8	2388.1
25°	308.3	323.6	362.7	460.3	687.7	1009.9	1560.0	2319.8	2581.1	2635.0
27.5°	280.8	292.0	316.2	386.4	591.0	951.3	1615.8	2560.6	2837.3	2917.8
30°	254.8	269.7	292.5	343.2	529.1	897.9	1686.0	2755.9	3053.1	3127.9
32.5°	234.8	249.7	270.6	312.9	476.6	841.6	1727.9	2927.5	3229.3	3293.0
35°	218.5	231.1	252.9	288.8	436.6	798.8	1719.5	3063.8	3399.9	3465.0
37.5°	206.9	217.6	239.5	266.0	406.4	754.2	1715.3	3243.7	3607.8	3683.1
40°	196.2	207.4	227.4	251.1	376.2	701.7	1717.6	3422.3	3829.1	3904.4
42.5°	187.9	200.4	216.7	246.9	345.0	659.3	1717.6	3577.6	4021.6	4094.2
45°	180.9	194.4	210.2	246.4	320.4	627.3	1706.0	3711.0	4175.1	4236.9
47.5°	174.8	189.7	212.5	238.1	314.3	604.0	1695.8	3818.0	4300.1	4358.3
50°	170.6	188.3	226.0	228.3	316.2	597.0	1745.1	3952.8	4410.3	4460.6
52.5°	167.4	188.8	225.5	213.9	312.9	601.7	1847.8	4163.4	4563.3	4567.0
55°	160.9	188.3	213.9	197.6	299.4	609.6	1979.9	4469.4	4802.8	4805.6
57.5°	154.4	183.2	198.5	183.7	272.0	609.6	2138.9	4759.1	5091.5	5093.9
60°	147.9	190.6	174.4	171.6	236.2	598.4	2306.8	4886.5	5182.2	5205.9
62.5°	141.4	192.0	155.8	160.9	210.2	571.5	2431.8	4745.6	5059.5	5093.4
65°	133.9	154.8	143.7	149.7	196.7	526.4	2392.3	4487.5	4828.8	4869.3
67.5°	125.1	131.1	130.7	138.1	192.0	459.9	2184.0	4161.1	4580.5	4578.2
70°	114.4	117.6	119.0	126.9	183.2	408.3	1819.9	3737.5	4249.0	4301.1
72.5°	103.2	106.0	107.4	114.4	174.4	379.0	1412.6	3154.0	3680.3	3761.7
75°	91.1	93.0	94.9	100.9	165.1	335.7	1006.2	2407.7	2818.7	2946.6
77.5°	78.6	78.6	80.9	87.0	139.0	277.1	675.2	1688.8	1909.7	2040.3
80°	63.7	64.2	63.2	69.7	102.3	189.7	383.6	1128.0	1270.8	1295.9
82.5°	48.8	47.4	47.9	51.1	76.3	129.3	204.6	700.7	714.2	700.3
85°	30.7	30.7	29.8	33.5	48.8	67.4	111.6	429.2	335.3	319.0
87.5°	12.6	10.2	11.6	13.5	23.2	27.4	43.7	88.3	33.9	31.2
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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