

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: P451507

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451507
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6041 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

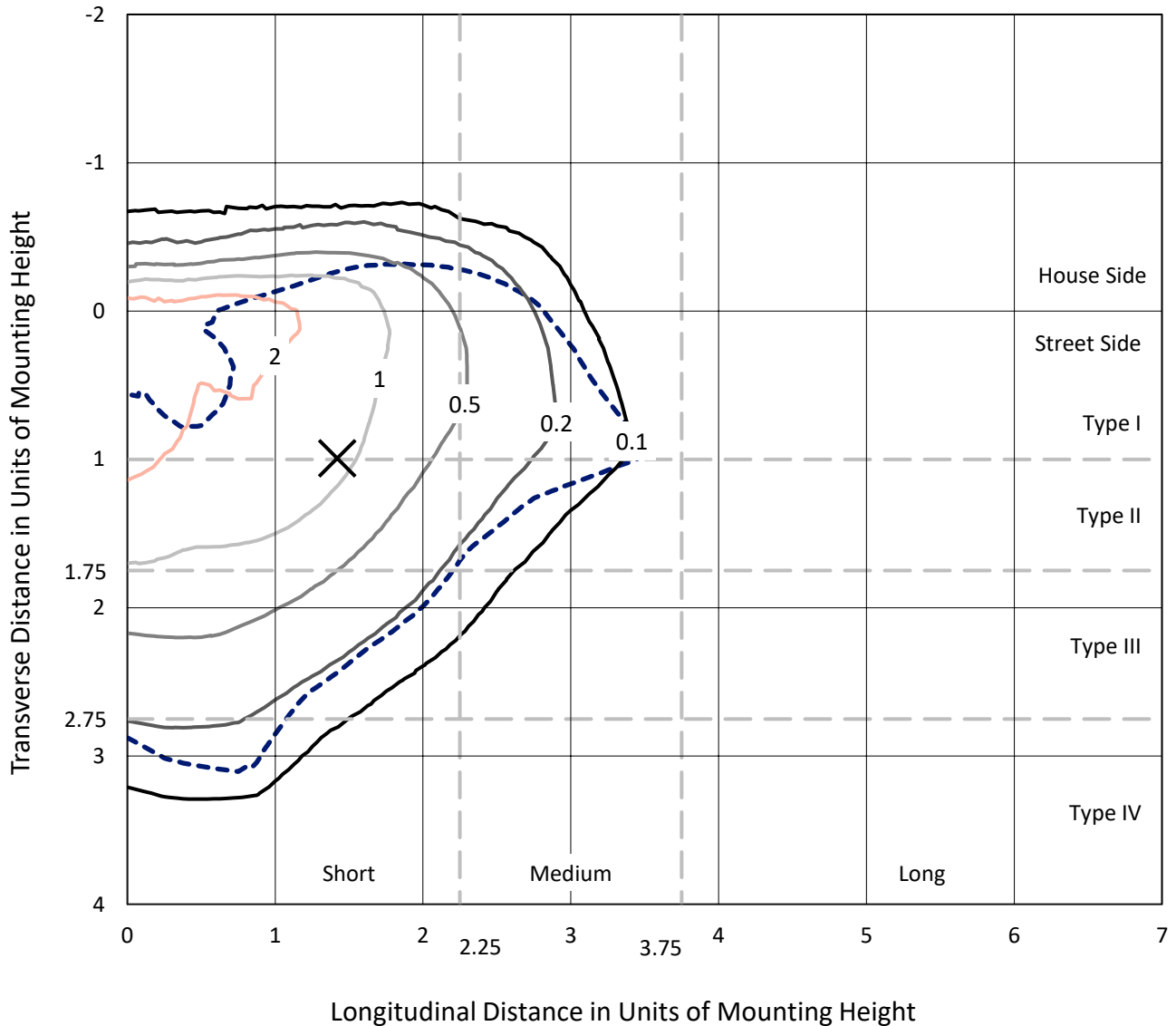
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451507
 CATALOG NUMBER: GALN-SA2B-827-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

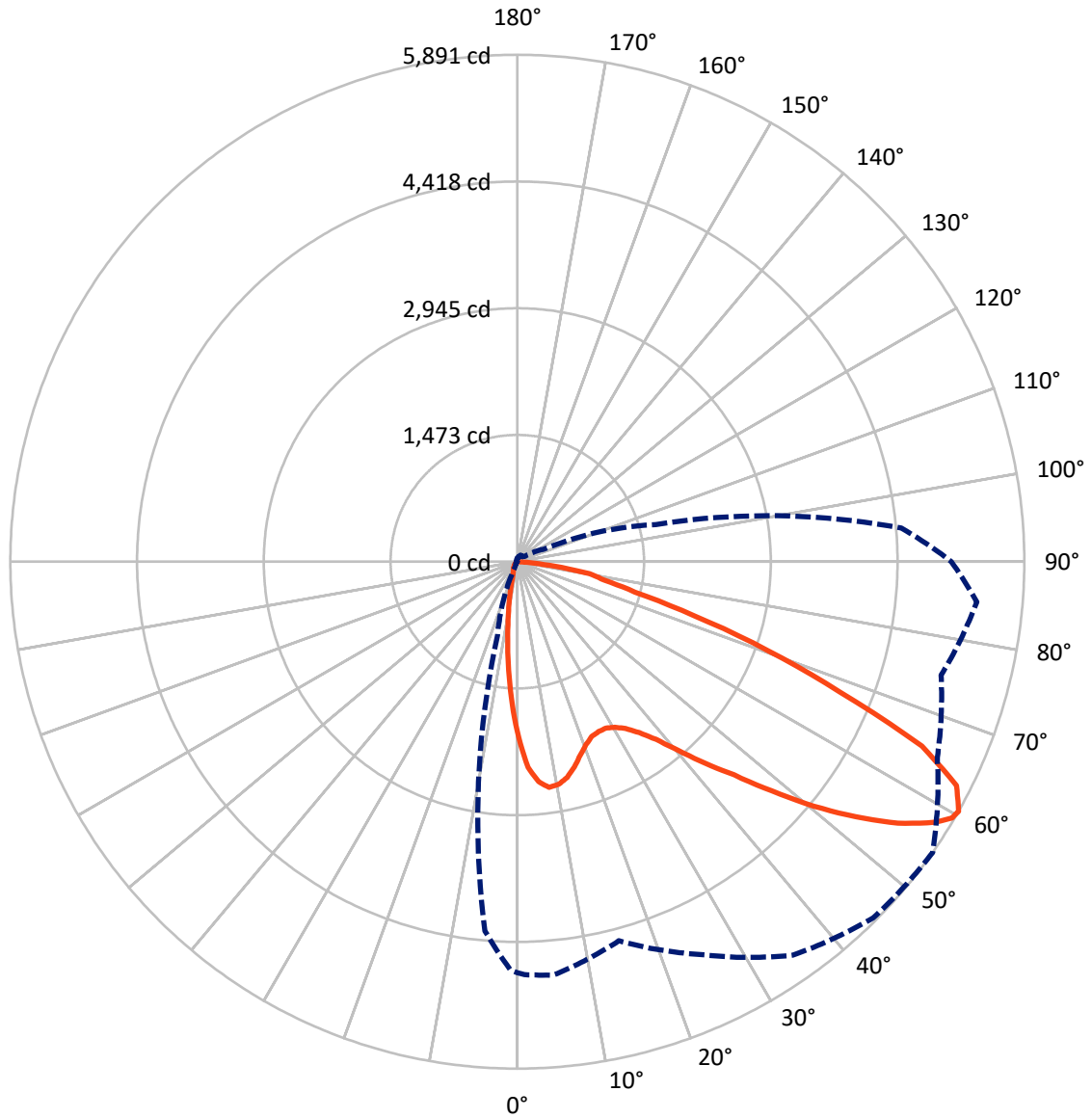
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Short - N/A

REPORT NUMBER: P451507
CATALOG NUMBER: GALN-SA2B-827-U-SLL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P451507

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

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	896.5	0.0	896.5
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	5144.5	0.0	5144.5
	% Fixture	85.2	0.0	85.2
Total	Lumens	6041.0	0.0	6041.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.5	2.5
10°-20°	298.3	4.9
20°-30°	441.5	7.3
30°-40°	658.1	10.9
40°-50°	963.8	16.0
50°-60°	1391.4	23.0
60°-70°	1463.7	24.2
70°-80°	602.1	10.0
80°-90°	70.5	1.2
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°	6041.0	100.0
0°-180°	6041.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451507

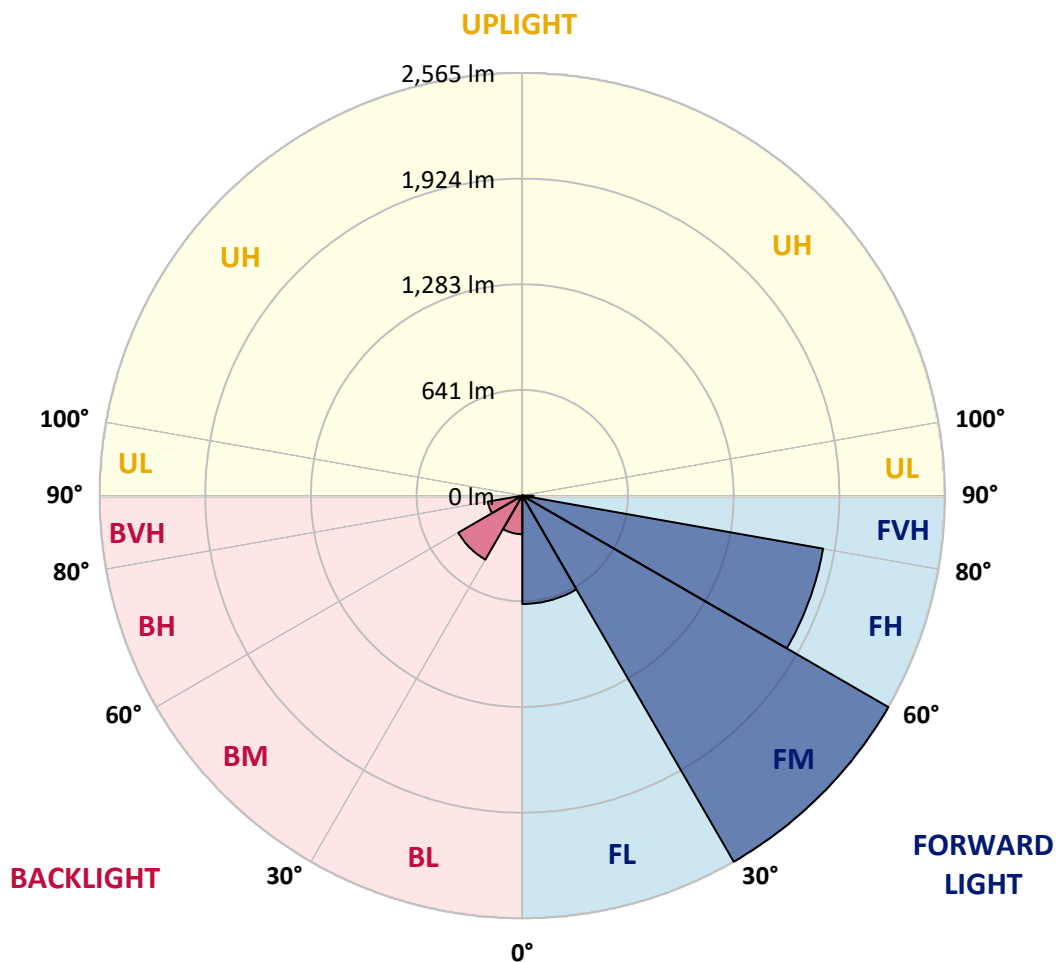
CATALOG NUMBER: GALN-SA2B-827-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	657.3	10.9			
FM	(30°-60°)	2565.0	42.5			
FH	(60°-80°)	1853.7	30.7			G2/5000
FVH	(80°-90°)	68.4	1.1			G1/100
BL	(0°-30°)	233.9	3.9	B1/500		
BM	(30°-60°)	448.3	7.4	B1/1000		
BH	(60°-80°)	212.2	3.5	B1/500		G1/500
BVH	(80°-90°)	2.1	0.0			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 III Short





REPORT NUMBER: P451507

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

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2045.5	2045.5	2045.5	2045.5	2045.5	2045.5	2045.5	2045.5	2045.5	2045.5	2045.5
2.5°	2234.7	2231.0	2264.0	2317.9	2372.3	2400.7	2395.1	2392.8	2347.7	2314.7	2245.4
5°	2230.1	2249.1	2308.2	2454.2	2564.9	2618.3	2634.1	2567.6	2479.8	2352.4	2195.2
7.5°	2096.6	2120.3	2216.6	2444.9	2641.6	2757.8	2753.6	2647.2	2465.8	2268.7	2044.5
10°	1931.1	1959.0	2072.0	2349.1	2604.4	2757.8	2766.2	2631.3	2405.8	2152.9	1917.1
12.5°	1814.4	1847.4	1972.5	2259.8	2508.6	2659.7	2669.5	2571.8	2360.7	2108.2	1847.8
15°	1774.8	1806.0	1932.9	2214.7	2406.8	2488.1	2485.8	2475.6	2343.1	2118.9	1851.6
17.5°	1842.7	1868.3	2011.5	2235.2	2311.4	2303.1	2315.2	2364.4	2346.8	2208.7	1968.7
20°	2018.0	2044.1	2198.0	2298.0	2238.4	2185.4	2191.0	2273.3	2381.2	2377.5	2151.9
22.5°	2259.4	2303.5	2443.0	2419.8	2228.7	2112.4	2100.8	2207.7	2439.8	2571.8	2399.3
25°	2564.9	2609.5	2718.3	2614.1	2276.6	2095.2	2084.5	2187.8	2510.9	2761.5	2677.8
27.5°	2821.5	2855.5	2963.8	2803.4	2347.2	2102.7	2085.0	2190.5	2568.6	2922.9	2912.7
30°	3027.0	3052.2	3115.9	2891.7	2408.2	2135.2	2114.7	2231.5	2594.1	3001.5	3102.8
32.5°	3192.6	3234.9	3254.9	2986.1	2495.6	2196.6	2161.7	2310.0	2656.5	3098.7	3302.3
35°	3381.8	3430.7	3405.1	3076.3	2610.9	2292.4	2249.6	2437.4	2750.8	3188.4	3533.9
37.5°	3621.8	3678.0	3578.1	3171.2	2732.7	2436.5	2416.5	2616.5	2894.1	3316.7	3782.2
40°	3870.1	3902.6	3745.9	3286.5	2882.4	2646.2	2665.3	2882.4	3081.5	3470.6	4046.3
42.5°	4064.0	4094.7	3918.4	3383.2	3035.4	2895.0	2974.5	3203.3	3296.3	3628.3	4243.4
45°	4212.3	4238.3	4037.9	3488.8	3241.9	3255.4	3405.5	3533.9	3511.6	3724.5	4395.5
47.5°	4327.6	4349.9	4130.0	3602.2	3551.1	3696.2	3925.9	3980.3	3734.8	3828.7	4533.1
50°	4375.0	4381.5	4158.8	3746.8	3902.1	4257.9	4497.3	4464.3	3990.5	3944.5	4679.6
52.5°	4436.9	4435.5	4241.1	3884.5	4232.3	4760.0	4999.0	4924.2	4279.7	4117.9	4844.2
55°	4599.2	4601.0	4417.4	4079.8	4513.6	5165.5	5421.3	5366.8	4584.7	4410.8	5036.2
57.5°	4796.3	4803.3	4668.0	4308.1	4782.4	5459.4	5736.5	5715.6	4997.2	4736.8	5217.6
59°	4821.9	4835.8	4786.5	4469.0	4941.9	5549.6	5844.4	5864.8	5218.1	4951.6	5315.7
60°	4775.4	4798.6	4821.0	4560.1	5035.3	5582.1	5850.9	5890.9	5384.1	5097.6	5360.3
62.5°	4572.7	4609.4	4721.5	4840.5	5152.0	5480.8	5643.0	5726.7	5589.6	5481.2	5364.5
65°	4307.1	4326.2	4488.0	4890.2	4925.6	5007.4	5057.6	5165.0	5342.7	5629.1	5172.5
67.5°	3871.9	3928.2	4126.3	4601.5	4257.4	4160.7	4148.1	4041.2	4502.4	5276.6	4699.1
70°	3198.6	3223.7	3467.9	3772.4	3213.0	3064.2	3123.8	3083.8	3490.2	4542.4	3782.2
72.5°	2418.8	2475.6	2714.1	3007.1	2186.4	1993.4	2157.5	2142.6	2621.6	3650.6	2598.3
75°	1720.9	1757.6	2061.7	2353.3	1531.2	1297.3	1356.4	1411.7	1830.2	2882.4	1535.4
77.5°	1182.5	1214.1	1442.4	1556.3	1116.9	1069.9	978.8	1032.3	1199.2	1710.2	835.6
80°	713.3	711.9	862.1	890.0	777.9	903.5	757.9	850.9	724.9	731.9	323.6
82.5°	463.1	458.5	527.3	574.7	432.9	455.2	305.5	440.3	472.4	204.1	102.3
85°	207.4	216.2	253.4	334.3	189.7	100.9	62.3	135.3	201.3	102.8	0.0
87.5°	21.4	16.7	44.6	81.4	26.0	2.8	9.3	4.6	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: P451507

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2045.5	2045.5	2045.5	2045.5	2045.5	2045.5	2045.5	2045.5	2045.5	2045.5	2045.5
2.5°	2213.3	2186.4	2105.9	2030.6	1966.0	1886.9	1835.8	1755.3	1706.5	1691.6	1693.9
5°	2124.5	2046.9	1893.9	1771.6	1635.3	1557.7	1439.6	1326.1	1264.8	1242.0	1231.7
7.5°	1938.5	1855.3	1670.7	1478.7	1332.6	1196.4	1108.5	1008.6	940.2	883.9	874.2
10°	1800.4	1691.1	1462.4	1255.9	1140.6	1038.3	950.4	850.5	770.0	705.8	688.2
12.5°	1717.7	1595.4	1340.1	1167.1	1057.8	952.8	838.4	722.6	640.3	571.0	538.9
15°	1702.8	1561.0	1305.7	1103.4	968.6	841.6	689.6	564.5	479.9	414.3	394.3
17.5°	1792.5	1622.8	1300.6	1036.9	851.9	671.9	513.8	410.1	314.8	278.1	263.6
20°	1952.5	1732.1	1300.1	959.7	731.9	517.5	360.8	267.4	228.8	211.1	202.7
22.5°	2170.5	1880.9	1324.7	893.2	607.3	381.8	257.6	213.0	190.6	176.2	173.0
25°	2437.0	2101.3	1385.2	848.1	511.9	299.4	212.5	182.3	163.7	157.2	154.4
27.5°	2673.7	2312.4	1451.7	801.6	443.6	265.0	197.2	166.9	152.0	146.9	142.8
30°	2877.8	2503.9	1483.8	740.3	388.7	242.7	199.9	178.6	159.0	143.7	136.7
32.5°	3048.0	2650.9	1504.7	684.5	342.2	198.5	158.1	138.1	129.3	123.7	119.0
35°	3260.9	2809.9	1492.1	652.8	318.5	180.9	144.1	119.0	104.2	93.0	88.3
37.5°	3484.1	2968.9	1470.3	626.8	307.8	167.9	137.2	113.0	96.7	85.1	79.0
40°	3715.2	3116.3	1444.7	602.6	298.1	159.5	133.0	107.9	91.6	79.0	72.5
42.5°	3926.8	3260.0	1434.5	586.8	282.2	160.9	129.7	105.6	86.5	73.5	67.9
45°	4097.9	3396.2	1448.4	578.4	265.0	158.6	130.7	102.8	82.3	69.7	64.2
47.5°	4280.6	3588.7	1493.5	570.1	248.3	147.4	137.6	102.3	80.4	67.4	61.4
50°	4493.1	3835.2	1596.8	549.6	227.8	135.3	146.5	101.8	78.1	64.6	58.6
52.5°	4776.3	4115.1	1703.2	513.8	198.1	123.7	140.0	100.4	73.5	61.4	55.3
55°	5030.7	4409.9	1793.4	471.5	160.4	106.9	126.0	94.4	65.6	55.8	50.2
57.5°	5135.8	4576.4	1790.7	412.9	128.3	93.9	103.7	86.5	57.2	49.3	44.6
59°	5097.2	4555.5	1730.7	369.7	117.2	87.0	86.0	85.6	53.5	44.6	40.9
60°	5042.8	4479.2	1666.0	348.3	110.2	82.3	79.0	84.6	50.2	41.8	38.1
62.5°	4834.4	4163.0	1451.7	312.0	100.9	69.7	63.2	71.6	44.6	36.3	33.0
65°	4532.7	3677.1	1229.0	301.8	98.1	57.7	52.5	51.1	38.1	30.7	27.9
67.5°	3944.0	3111.7	995.5	294.8	99.0	48.4	46.0	38.6	31.6	25.6	23.7
70°	3157.7	2426.3	815.1	286.9	100.0	39.5	38.6	30.7	25.6	21.4	19.5
72.5°	1918.5	1438.2	641.7	249.2	97.2	31.6	34.4	23.2	18.6	15.3	14.4
75°	1186.2	984.4	398.0	193.9	64.2	23.2	24.2	14.4	12.6	9.8	9.8
77.5°	687.2	621.7	142.3	69.7	28.4	13.9	10.7	7.4	7.0	4.2	4.2
80°	285.0	228.3	49.3	23.7	15.3	6.5	2.3	0.5	0.0	0.0	0.0
82.5°	83.2	73.9	13.5	10.7	4.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P451507
 CATALOG NUMBER: GALN-SA2B-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2045.5	2045.5	2045.5	2045.5	2045.5	2045.5	2045.5	2045.5	2045.5	2045.5	2045.5
2.5°	1654.4	1639.1	1632.1	1655.8	1634.0	1661.9	1640.5	1649.8	1677.2	1689.3	1720.4
5°	1238.3	1222.4	1215.0	1250.8	1248.9	1266.6	1264.8	1281.0	1295.0	1263.8	1295.9
7.5°	862.5	851.9	869.5	897.4	927.2	917.4	917.4	895.6	903.0	898.3	897.0
10°	656.1	619.4	610.1	609.1	620.3	622.6	610.1	579.8	591.0	594.2	613.8
12.5°	516.1	487.8	444.5	425.0	419.9	424.1	382.7	356.2	368.7	361.3	380.4
15°	370.1	346.9	321.3	299.4	293.4	285.0	239.9	208.3	204.6	206.0	209.2
17.5°	264.1	248.3	248.3	225.1	212.5	187.4	164.6	150.7	149.3	150.7	153.0
20°	194.8	186.5	185.5	179.5	165.5	148.8	133.0	130.2	129.3	131.6	132.5
22.5°	167.9	159.0	151.6	151.1	138.1	124.2	116.7	113.0	113.5	114.4	116.7
25°	150.2	140.9	133.0	128.3	119.0	109.3	102.3	100.4	100.4	101.8	102.3
27.5°	137.6	126.0	119.0	112.5	104.2	95.8	89.7	88.3	87.4	88.3	90.7
30°	128.8	117.2	108.3	98.6	92.1	84.2	79.0	77.2	76.7	77.2	79.0
32.5°	110.2	103.2	96.3	87.4	79.5	74.4	68.8	65.6	65.6	66.5	68.4
35°	83.2	79.5	79.0	76.7	70.2	64.6	58.1	54.9	54.9	56.7	57.7
37.5°	73.5	66.5	65.6	64.6	61.8	54.4	48.4	45.6	45.1	46.5	48.4
40°	67.0	59.1	54.9	53.9	54.4	46.0	39.5	36.7	36.7	37.2	39.1
42.5°	61.8	52.5	45.1	44.2	46.0	38.6	32.1	29.3	29.3	29.3	31.6
45°	57.7	47.0	38.1	33.5	36.3	31.6	26.0	23.2	22.3	23.2	24.2
47.5°	54.9	42.8	33.5	27.0	27.0	25.1	20.9	17.7	16.7	17.2	18.6
50°	52.5	39.1	28.4	21.9	19.5	20.0	15.8	13.5	12.6	12.6	13.9
52.5°	48.8	35.3	24.6	18.6	14.9	13.5	11.6	9.8	9.3	9.8	10.7
55°	44.2	32.1	21.4	15.3	11.6	9.3	8.4	7.0	6.5	7.0	8.4
57.5°	39.1	27.0	17.2	12.1	7.9	6.0	5.6	4.6	3.7	4.2	5.1
59°	35.8	24.2	14.9	9.8	6.0	4.2	4.2	3.3	2.3	2.8	4.2
60°	34.4	22.3	12.6	8.4	5.1	3.3	3.3	2.3	1.4	1.9	3.3
62.5°	29.3	18.6	9.8	5.1	2.3	0.5	1.4	0.5	0.0	0.5	1.4
65°	24.6	14.9	6.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.5
67.5°	20.5	11.2	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	16.3	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	11.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	7.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P451507
 CATALOG NUMBER: GALN-SA2B-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2045.5	2045.5	2045.5	2045.5	2045.5	2045.5	2045.5	2045.5	2045.5	2045.5
2.5°	1722.3	1788.8	1829.7	1906.9	1985.9	2046.9	2123.1	2191.5	2219.8	2234.7
5°	1328.5	1421.0	1499.6	1617.2	1726.5	1859.5	1994.3	2153.3	2214.3	2230.1
7.5°	932.3	1026.7	1109.0	1245.2	1401.0	1579.1	1780.9	1982.7	2071.5	2096.6
10°	673.3	774.2	874.6	1010.9	1156.4	1349.4	1559.6	1809.3	1911.6	1931.1
12.5°	425.0	533.3	696.5	864.9	1018.8	1174.1	1394.0	1665.6	1778.6	1814.4
15°	246.4	327.3	450.6	670.0	865.8	1071.3	1311.3	1611.6	1738.1	1774.8
17.5°	165.1	193.0	277.6	445.5	704.0	976.5	1290.3	1655.8	1795.8	1842.7
20°	139.0	151.6	181.3	271.6	542.2	891.8	1295.9	1775.8	1959.4	2018.0
22.5°	122.3	133.9	153.0	195.3	378.5	786.8	1322.4	1947.4	2184.5	2259.4
25°	107.9	119.5	136.2	161.8	254.3	665.4	1380.5	2198.4	2482.6	2564.9
27.5°	95.8	106.5	120.9	142.8	195.8	530.1	1432.2	2443.0	2754.6	2821.5
30°	84.6	93.5	107.4	124.2	162.7	408.7	1458.2	2656.9	2952.7	3027.0
32.5°	73.5	81.8	95.3	108.8	133.9	311.5	1440.1	2814.1	3145.2	3192.6
35°	62.8	71.6	82.8	95.3	115.8	251.6	1349.4	2990.8	3344.6	3381.8
37.5°	53.9	61.4	73.0	82.8	104.6	201.3	1239.6	3149.8	3568.3	3621.8
40°	45.6	53.0	64.6	73.5	96.3	158.6	1140.6	3326.5	3804.0	3870.1
42.5°	37.2	46.0	56.3	70.7	82.8	120.9	1020.6	3469.7	3981.2	4064.0
45°	29.8	39.5	50.7	70.2	72.1	92.1	904.9	3581.3	4137.9	4212.3
47.5°	23.7	33.5	48.8	65.6	59.1	73.0	838.8	3698.0	4268.1	4327.6
50°	19.1	27.9	51.1	57.7	49.3	61.8	837.0	3828.2	4335.5	4375.0
52.5°	15.3	22.8	43.2	44.2	41.8	54.4	887.2	3974.7	4404.3	4436.9
55°	13.0	19.1	28.4	32.5	37.7	49.3	924.9	4200.2	4568.5	4599.2
57.5°	10.2	16.3	21.9	26.0	33.5	45.1	930.0	4374.1	4776.3	4796.3
59°	8.8	13.9	19.5	23.2	30.7	42.3	909.0	4384.8	4789.8	4821.9
60°	7.4	12.6	17.2	21.9	28.4	40.0	886.3	4307.1	4739.6	4775.4
62.5°	5.6	9.8	12.6	17.7	23.2	34.4	778.4	4036.1	4547.5	4572.7
65°	3.7	7.0	9.3	13.0	18.1	29.8	634.2	3684.5	4250.9	4307.1
67.5°	2.3	5.1	7.4	9.8	14.9	25.1	452.0	3159.6	3835.7	3871.9
70°	1.4	3.3	5.6	7.9	11.6	20.0	268.3	2497.4	3191.2	3198.6
72.5°	0.9	2.3	3.7	5.6	9.3	18.1	130.2	1627.9	2330.0	2418.8
75°	0.5	1.4	2.3	4.2	7.4	14.9	62.3	1087.6	1695.3	1720.9
77.5°	0.0	0.5	1.4	2.8	5.6	11.6	36.3	714.2	1156.0	1182.5
80°	0.0	0.0	0.9	2.3	4.2	7.4	21.9	421.3	700.3	713.3
82.5°	0.0	0.0	0.5	1.9	2.8	5.6	11.2	185.1	458.5	463.1
85°	0.0	0.0	0.5	1.9	2.3	3.7	4.2	25.1	203.7	207.4
87.5°	0.0	0.0	0.5	2.3	2.3	2.3	2.3	1.4	17.2	21.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)