

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: P528082

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-827-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7475 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

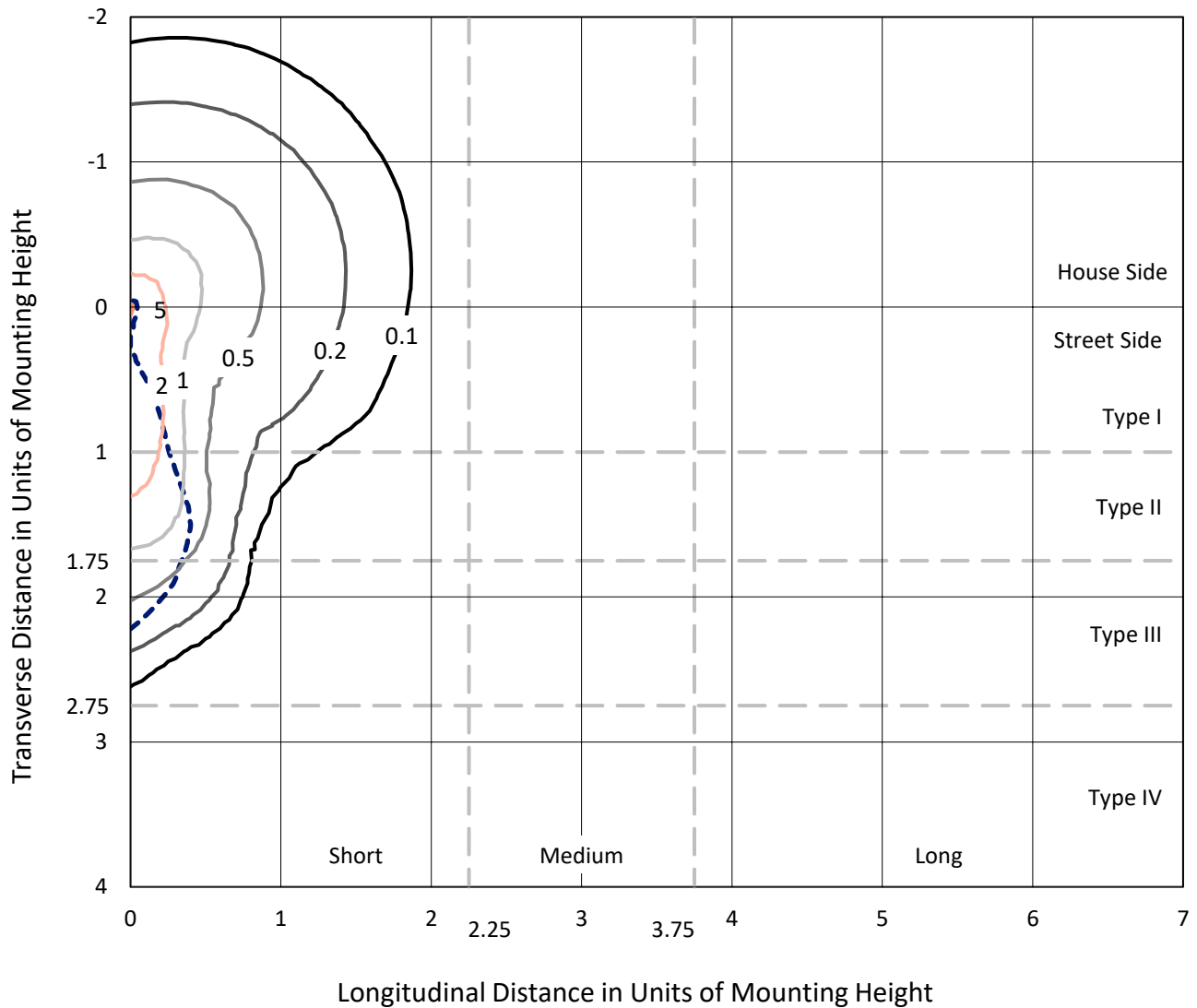
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

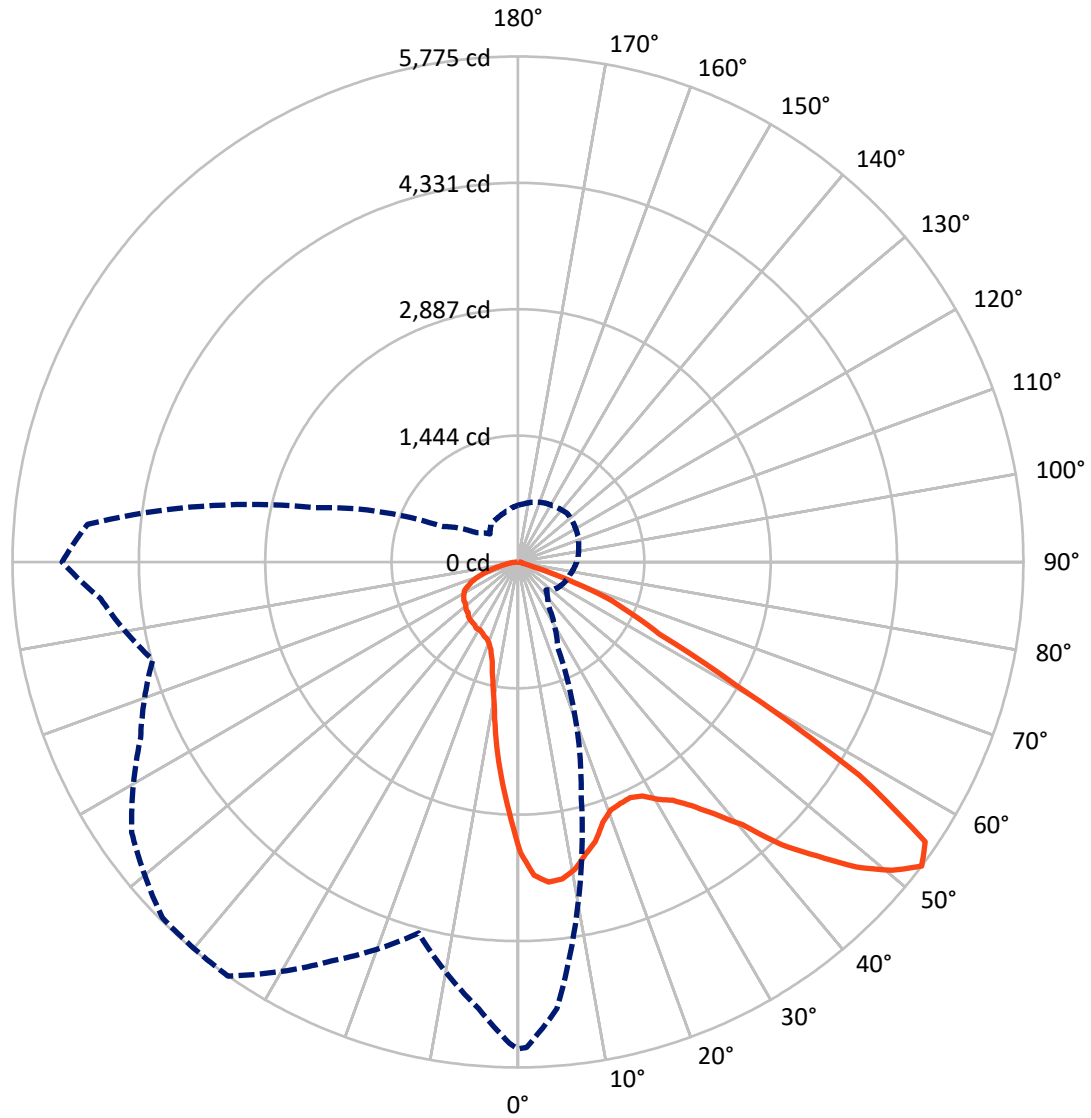
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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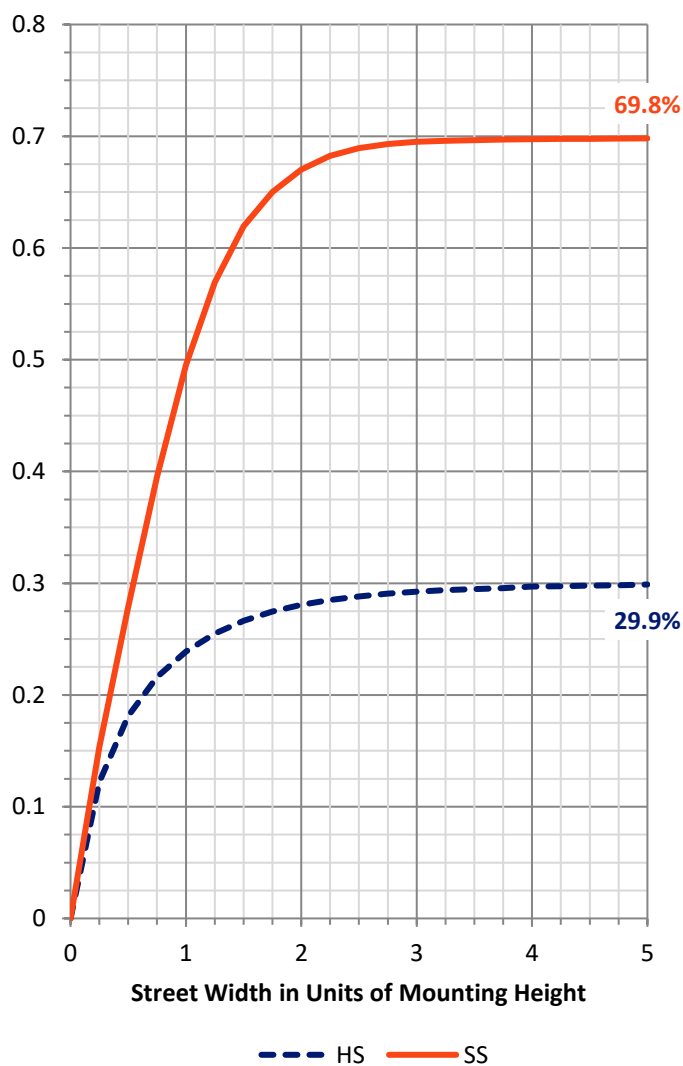
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2253.4	0.0	2253.4
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	5221.6	0.0	5221.6
	% Fixture	69.9	0.0	69.9
Total	Lumens	7475.0	0.0	7475.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.1	3.4
10°-20°	548.7	7.3
20°-30°	829.0	11.1
30°-40°	1197.9	16.0
40°-50°	1594.2	21.3
50°-60°	1783.2	23.9
60°-70°	1005.0	13.4
70°-80°	224.0	3.0
80°-90°	39.9	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°	7475.0	100.0
0°-180°	7475.0	100.0

Coefficient of Utilization



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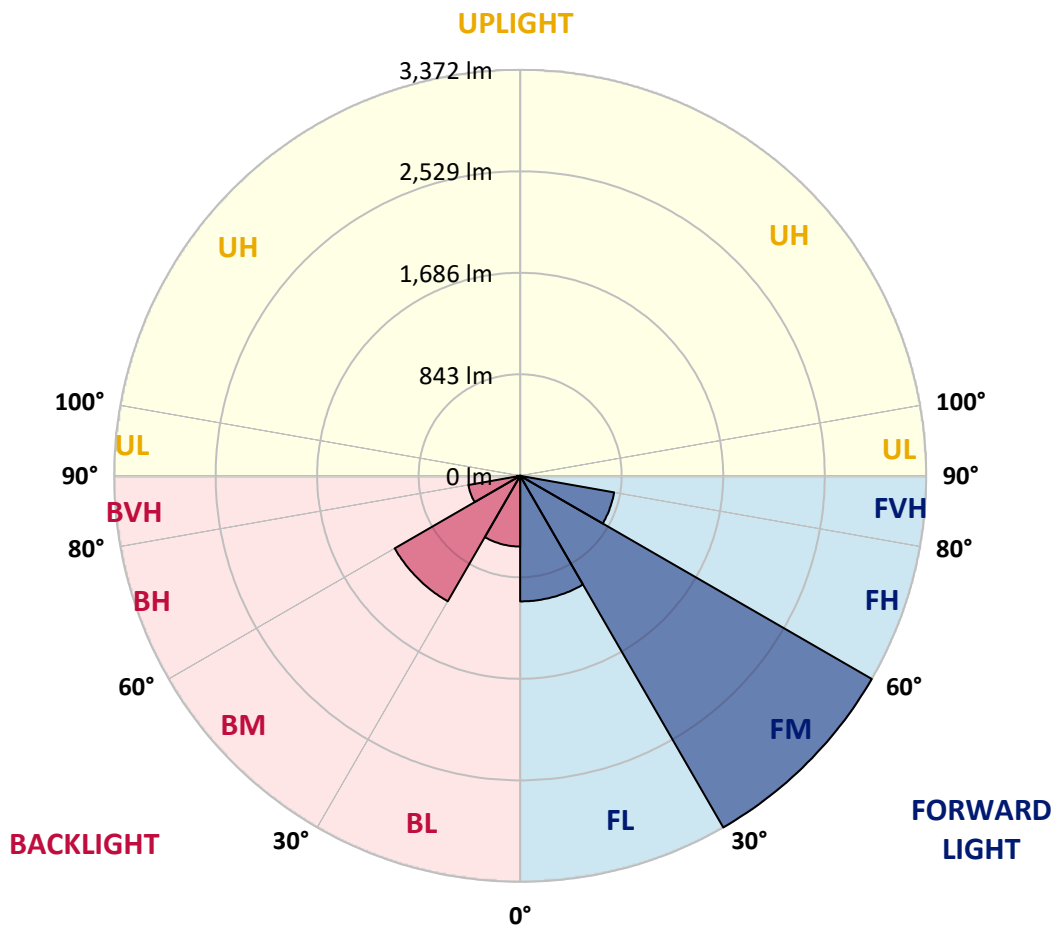
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1043.1	14.0			
FM (30°-60°)	3371.8	45.1			
FH (60°-80°)	792.2	10.6			G1/1800
FVH (80°-90°)	14.4	0.2			G1/100
BL (0°-30°)	587.6	7.9	B2/1000		
BM (30°-60°)	1203.5	16.1	B2/2500		
BH (60°-80°)	436.8	5.8	B1/500		G1/500
BVH (80°-90°)	25.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5
2.5°	3372.7	3426.9	3368.4	3264.4	3190.7	3123.5	3053.1	3039.0	2946.9	2930.7	2863.5
5°	3180.9	3169.0	3097.5	2961.0	2810.4	2673.9	2573.1	2475.6	2409.5	2332.6	2327.2
7.5°	2948.0	2878.7	2837.5	2630.6	2444.2	2229.7	2137.6	1989.2	1942.6	1873.2	1837.5
10°	2740.0	2689.1	2592.6	2385.7	2125.7	1983.8	1885.2	1805.0	1750.8	1679.3	1589.4
12.5°	2637.1	2616.5	2508.1	2187.4	1994.6	1842.9	1773.6	1695.6	1603.5	1488.6	1444.2
15°	2655.5	2586.1	2503.8	2149.5	1883.0	1736.7	1626.2	1528.7	1410.6	1301.2	1237.3
17.5°	2793.1	2740.0	2575.3	2173.4	1840.7	1629.5	1429.0	1284.9	1178.8	1080.2	1035.8
20°	3063.9	2987.0	2801.7	2203.7	1749.7	1480.0	1250.3	1072.6	958.8	906.8	891.7
22.5°	3364.0	3318.5	3022.8	2271.9	1677.1	1341.3	1060.7	883.0	840.7	826.7	854.8
25°	3729.2	3611.1	3366.2	2383.5	1620.8	1223.2	900.3	801.7	780.1	794.2	826.7
27.5°	4006.5	3975.1	3606.7	2488.6	1543.9	1081.3	810.4	745.4	751.9	766.0	796.3
30°	4335.9	4176.6	3839.7	2561.2	1474.5	983.8	747.6	730.2	736.7	760.6	775.7
32.5°	4534.1	4474.6	3985.9	2670.6	1394.4	899.2	698.8	682.6	692.3	728.1	763.8
35°	4786.6	4668.5	4166.9	2698.8	1338.0	865.7	664.1	652.2	675.0	699.9	740.0
37.5°	5081.3	5000.0	4417.1	2679.3	1307.7	831.0	634.9	629.5	645.7	680.4	727.0
40°	5255.7	5230.8	4548.2	2691.2	1260.0	800.7	601.3	607.8	641.4	668.5	714.0
42.5°	5423.6	5261.1	4742.2	2686.9	1229.7	759.5	604.6	597.0	623.0	654.4	697.7
45°	5460.5	5299.0	4787.7	2656.6	1192.9	719.4	579.6	582.9	614.3	653.3	681.5
47.5°	5436.6	5317.5	4872.2	2647.9	1158.2	691.2	542.8	581.8	600.2	631.6	671.7
50°	5420.4	5413.9	4943.7	2689.1	1111.6	646.8	498.4	567.7	586.1	617.6	660.9
52.5°	5563.4	5549.3	5122.4	2797.4	1074.8	599.1	452.9	532.0	576.4	606.7	649.0
55°	5650.1	5588.3	5429.0	2930.7	1013.0	536.3	421.5	487.5	552.5	579.6	623.0
57.5°	5082.4	5040.1	4911.2	2735.7	909.0	454.0	382.4	442.0	520.0	562.3	606.7
60°	4228.6	4162.5	3832.1	2325.0	670.6	353.2	358.6	406.3	511.4	527.6	579.6
62.5°	3987.0	3823.4	3373.8	1871.1	514.6	303.4	321.8	373.8	465.9	493.0	545.0
65°	3163.6	3042.3	2413.9	1351.0	344.5	263.3	293.6	336.9	402.0	455.0	502.7
67.5°	1980.5	1864.6	1288.2	639.2	240.5	225.4	262.2	307.7	360.8	408.5	461.5
70°	1034.7	907.9	594.8	230.8	165.8	184.2	218.9	262.2	314.2	353.2	394.4
72.5°	385.7	313.1	193.9	99.7	114.8	140.8	177.7	209.1	245.9	293.6	316.4
75°	59.6	50.9	49.8	60.7	78.0	101.8	126.8	158.2	190.7	221.0	236.2
77.5°	28.2	27.1	30.3	40.1	52.0	72.6	92.1	122.4	148.4	167.9	176.6
80°	18.4	17.3	19.5	27.1	39.0	54.2	73.7	94.3	118.1	134.3	132.2
82.5°	10.8	11.9	11.9	18.4	27.1	39.0	53.1	71.5	87.8	101.8	93.2
85°	6.5	5.4	5.4	10.8	18.4	31.4	44.4	30.3	31.4	31.4	35.8
87.5°	2.2	2.2	2.2	1.1	2.2	2.2	3.3	5.4	6.5	7.6	9.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5
2.5°	2861.3	2894.9	2883.0	2840.7	2873.2	2878.7	2857.0	2931.8	2945.8	2923.1	2929.6
5°	2319.6	2328.3	2347.8	2389.0	2418.2	2452.9	2452.9	2455.0	2425.8	2499.5	2477.8
7.5°	1807.2	1812.6	1835.3	1923.1	1948.0	2014.1	2042.3	2022.8	1964.3	1939.3	1959.9
10°	1560.1	1528.7	1521.1	1532.0	1588.3	1616.5	1640.3	1633.8	1624.1	1604.6	1582.9
12.5°	1395.5	1372.7	1354.3	1328.3	1331.5	1358.6	1377.0	1361.9	1366.2	1370.5	1377.0
15°	1216.7	1200.4	1190.7	1151.7	1147.3	1165.8	1172.3	1180.9	1197.2	1198.3	1190.7
17.5°	1027.1	1013.0	1034.7	1056.3	1041.2	1042.3	1054.2	1061.8	1057.4	1037.9	1028.2
20°	897.1	912.2	933.9	954.5	970.7	980.5	984.8	972.9	958.8	918.7	917.7
22.5°	859.2	878.7	897.1	928.5	943.7	968.6	945.8	918.7	899.2	879.7	857.0
25°	831.0	847.2	884.1	896.0	925.2	945.8	929.6	902.5	868.9	840.7	823.4
27.5°	810.4	828.8	852.7	885.2	907.9	919.8	903.6	892.7	858.1	824.5	799.6
30°	797.4	816.9	860.2	887.3	906.8	916.6	888.4	875.4	850.5	822.3	800.7
32.5°	788.7	806.1	842.9	877.6	890.6	890.6	894.9	879.7	845.1	797.4	779.0
35°	760.6	784.4	814.7	854.8	878.7	892.7	871.1	853.7	831.0	782.2	748.6
37.5°	744.3	760.6	799.6	837.5	858.1	873.2	864.6	834.2	803.9	763.8	736.7
40°	727.0	753.0	787.7	823.4	846.2	861.3	854.8	819.1	782.2	744.3	725.9
42.5°	715.1	732.4	768.1	808.2	835.3	864.6	845.1	800.7	774.6	722.6	702.1
45°	705.3	733.5	771.4	787.7	815.8	846.2	811.5	784.4	754.1	716.1	698.8
47.5°	693.4	719.4	744.3	787.7	800.7	814.7	808.2	764.9	738.9	697.7	685.8
50°	689.1	698.8	744.3	768.1	786.6	800.7	783.3	750.8	725.9	683.6	657.6
52.5°	671.7	690.1	719.4	750.8	773.6	790.9	762.7	742.1	708.6	664.1	647.9
55°	650.1	660.9	712.9	745.4	757.3	769.2	758.4	724.8	690.1	644.6	628.4
57.5°	621.9	646.8	689.1	734.6	749.7	756.2	738.9	711.8	668.5	628.4	602.4
60°	592.6	618.6	665.2	702.1	717.2	741.1	715.1	698.8	649.0	604.6	576.4
62.5°	563.4	592.6	627.3	673.9	686.9	696.6	690.1	667.4	627.3	577.5	542.8
65°	528.7	550.4	593.7	617.6	626.2	649.0	626.2	617.6	581.8	534.1	504.9
67.5°	476.7	495.1	533.0	555.8	562.3	572.0	571.0	561.2	521.1	488.6	462.6
70°	417.1	433.4	457.2	484.3	487.5	499.5	488.6	486.5	460.5	416.0	402.0
72.5°	334.8	349.9	381.4	393.3	394.4	398.7	393.3	385.7	379.2	332.6	318.5
75°	256.8	265.4	280.6	291.4	291.4	296.9	293.6	286.0	268.7	239.4	225.4
77.5°	178.8	187.4	206.9	213.4	212.4	214.5	204.8	197.2	171.2	156.0	144.1
80°	130.0	135.4	145.2	149.5	150.6	153.8	141.9	135.4	120.3	102.9	97.5
82.5°	94.3	97.5	98.6	104.0	104.0	98.6	95.3	88.8	78.0	67.2	62.8
85°	39.0	40.1	41.2	47.7	48.8	58.5	54.2	50.9	44.4	37.9	34.7
87.5°	9.8	10.8	14.1	11.9	14.1	14.1	15.2	17.3	17.3	14.1	14.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5
2.5°	2954.5	2963.2	3073.7	3087.8	3141.9	3197.2	3308.8	3389.0	3454.0	3496.2	3508.1
5°	2500.5	2555.8	2606.7	2689.1	2763.8	2870.0	2992.4	3144.1	3334.8	3432.3	3471.3
7.5°	1957.8	2022.8	2096.4	2176.6	2286.0	2476.7	2640.3	2815.8	3059.6	3160.4	3313.1
10°	1598.1	1670.6	1768.2	1829.9	1962.1	2144.1	2334.8	2537.4	2770.3	2915.5	3092.1
12.5°	1412.8	1472.4	1562.3	1692.3	1790.9	1909.0	2050.9	2306.6	2640.3	2777.9	2899.2
15°	1208.0	1274.1	1378.1	1522.2	1640.3	1781.2	1940.4	2218.9	2574.2	2786.6	2889.5
17.5°	1039.0	1086.7	1196.1	1320.7	1456.1	1610.0	1838.6	2214.5	2643.6	2915.5	3083.4
20°	922.0	928.5	988.1	1094.3	1278.4	1478.9	1775.7	2192.9	2865.7	3137.6	3350.0
22.5°	848.3	841.8	842.9	932.8	1061.8	1349.9	1677.1	2266.5	3118.1	3490.8	3633.8
25°	811.5	794.2	783.3	802.8	919.8	1197.2	1602.4	2364.0	3390.0	3782.2	3957.8
27.5°	792.0	761.6	740.0	743.2	828.8	1120.3	1555.8	2406.3	3659.8	4188.5	4250.3
30°	784.4	746.5	715.1	704.2	760.6	1013.0	1456.1	2478.9	3901.4	4411.7	4464.8
32.5°	757.3	710.7	680.4	670.6	693.4	918.7	1384.6	2530.9	4114.9	4654.4	4636.0
35°	725.9	686.9	649.0	630.6	646.8	858.1	1327.2	2506.0	4366.2	4842.9	4833.2
37.5°	722.6	671.7	640.3	610.0	608.9	783.3	1249.2	2529.8	4526.6	5180.9	5047.7
40°	694.5	662.0	620.8	595.9	581.8	745.4	1173.4	2473.5	4761.7	5317.5	5186.4
42.5°	695.6	646.8	611.1	581.8	567.7	690.1	1121.3	2458.3	4844.0	5539.6	5251.4
45°	678.2	630.6	600.2	565.5	558.0	647.9	1071.5	2387.9	4989.2	5550.4	5170.1
47.5°	660.9	618.6	586.1	545.0	527.6	632.7	1032.5	2329.4	4913.3	5448.6	5057.4
50°	649.0	600.2	569.9	540.6	491.9	606.7	981.6	2315.3	4807.2	5311.0	4848.3
52.5°	628.4	585.1	553.6	530.9	452.9	582.9	962.1	2397.6	4937.2	5208.0	4787.7
55°	608.9	564.5	524.4	480.0	420.4	520.0	907.9	2474.5	5126.8	5445.3	5062.9
57.5°	588.3	546.0	502.7	449.6	388.9	455.0	851.6	2488.6	4771.4	5032.5	4806.1
60°	561.2	507.0	474.5	405.2	355.4	377.0	675.0	2193.9	3701.0	4202.6	4210.2
62.5°	530.9	472.4	444.2	362.9	320.7	325.0	550.4	1844.0	3002.2	3478.9	3685.8
65°	490.8	434.5	400.9	335.9	295.8	281.7	403.0	1351.0	2280.6	2822.3	3057.4
67.5°	438.8	385.7	343.4	292.5	264.4	241.6	275.2	760.6	1346.7	1894.9	1966.4
70°	383.5	338.0	293.6	251.4	219.9	203.7	201.5	336.9	643.6	1019.5	1160.3
72.5°	302.3	269.8	234.0	202.6	182.0	158.2	144.1	139.8	217.8	415.0	573.1
75°	216.7	189.6	169.0	148.4	133.3	120.3	109.4	99.7	91.0	104.0	143.0
77.5°	136.5	126.8	110.5	105.1	96.4	93.2	88.8	83.4	76.9	72.6	72.6
80°	92.1	85.6	80.2	79.1	75.8	74.8	75.8	70.4	63.9	58.5	60.7
82.5°	61.8	60.7	59.6	58.5	59.6	60.7	62.8	61.8	56.3	53.1	54.2
85°	36.8	39.0	41.2	43.3	47.7	42.3	34.7	29.3	26.0	23.8	22.8
87.5°	14.1	19.5	17.3	16.3	17.3	16.3	15.2	14.1	11.9	10.8	10.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5	3317.5
2.5°	3587.2	3608.9	3627.3	3623.0	3585.1	3534.1	3513.6	3408.5	3386.8	3372.7
5°	3636.0	3761.7	3788.7	3772.5	3673.9	3549.3	3428.0	3274.1	3184.2	3180.9
7.5°	3546.1	3701.0	3749.7	3786.6	3655.5	3438.8	3230.8	3000.0	2943.7	2948.0
10°	3317.5	3564.5	3684.7	3722.7	3572.1	3384.6	3096.4	2862.4	2742.2	2740.0
12.5°	3190.7	3384.6	3418.2	3471.3	3426.9	3237.3	3018.4	2756.2	2639.2	2637.1
15°	3078.0	3205.9	3215.6	3290.4	3314.2	3186.4	3039.0	2759.5	2665.2	2655.5
17.5°	3176.6	3087.8	3050.9	3060.7	3131.1	3177.7	3158.2	2943.7	2847.2	2793.1
20°	3242.7	3044.4	2932.8	2943.7	3027.1	3197.2	3335.9	3210.2	3057.4	3063.9
22.5°	3419.3	3050.9	2876.5	2864.6	2996.8	3299.0	3536.3	3547.1	3399.8	3364.0
25°	3683.6	3125.7	2859.2	2855.9	2982.7	3408.5	3770.3	3945.8	3795.2	3729.2
27.5°	3896.0	3242.7	2913.3	2924.2	3027.1	3497.3	3969.7	4202.6	4087.8	4006.5
30°	4082.3	3364.0	2989.2	2939.3	3146.3	3543.9	4055.3	4495.1	4403.0	4335.9
32.5°	4159.3	3536.3	3109.4	3027.1	3244.9	3600.2	4232.9	4779.0	4699.9	4534.1
35°	4289.3	3632.7	3174.4	3167.9	3417.1	3735.7	4316.4	4966.4	4933.9	4786.6
37.5°	4393.3	3730.2	3405.2	3333.7	3653.3	3963.2	4450.7	5225.4	5150.6	5081.3
40°	4473.5	3904.7	3620.8	3715.1	3943.7	4170.1	4574.2	5241.6	5457.2	5255.7
42.5°	4399.8	4060.7	3975.1	4200.4	4417.1	4406.3	4588.3	5367.3	5528.7	5423.6
45°	4381.4	4325.0	4535.2	4740.0	4789.8	4602.4	4487.6	5228.6	5507.1	5460.5
47.5°	4337.0	4585.1	4951.3	5285.0	5209.1	4733.5	4367.3	5203.7	5520.1	5436.6
50°	4321.8	4641.4	5259.0	5584.0	5538.5	4847.2	4311.0	5043.3	5428.0	5420.4
52.5°	4320.7	4757.3	5386.8	5746.5	5774.7	5027.1	4387.9	5124.6	5499.5	5563.4
55°	4369.5	4720.5	5370.5	5656.6	5645.7	4946.9	4396.5	5178.8	5587.2	5650.1
57.5°	4121.4	4228.6	4432.3	4658.7	4600.2	4097.5	3926.3	4787.7	5127.9	5082.4
60°	3559.1	3223.2	2993.5	2982.7	2868.9	2711.8	3213.4	4273.0	4273.0	4228.6
62.5°	3117.0	2115.9	1818.0	1733.5	1814.7	1995.7	3099.7	4156.0	4037.9	3987.0
65°	2725.9	1615.4	1314.2	1290.4	1431.2	1704.2	2802.8	3540.6	3332.6	3163.6
67.5°	1754.1	1183.1	977.3	935.0	1105.1	1251.4	1865.7	2177.7	2046.6	1980.5
70°	1131.1	770.3	543.9	510.3	576.4	771.4	1191.8	1269.8	1079.1	1034.7
72.5°	535.2	332.6	190.7	157.1	176.6	294.7	471.3	507.0	421.5	385.7
75°	170.1	122.4	78.0	67.2	63.9	75.8	108.3	83.4	60.7	59.6
77.5°	75.8	72.6	61.8	52.0	45.5	37.9	31.4	26.0	27.1	28.2
80°	62.8	57.4	50.9	45.5	37.9	29.3	22.8	17.3	17.3	18.4
82.5°	55.3	49.8	44.4	37.9	32.5	23.8	17.3	11.9	10.8	10.8
85°	23.8	28.2	30.3	32.5	26.0	19.5	11.9	7.6	6.5	6.5
87.5°	9.8	8.7	7.6	6.5	5.4	5.4	4.3	3.3	2.2	2.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)