

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: P652230

Luminaire Tested: **GALN-SA2B-840-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-840-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7167 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

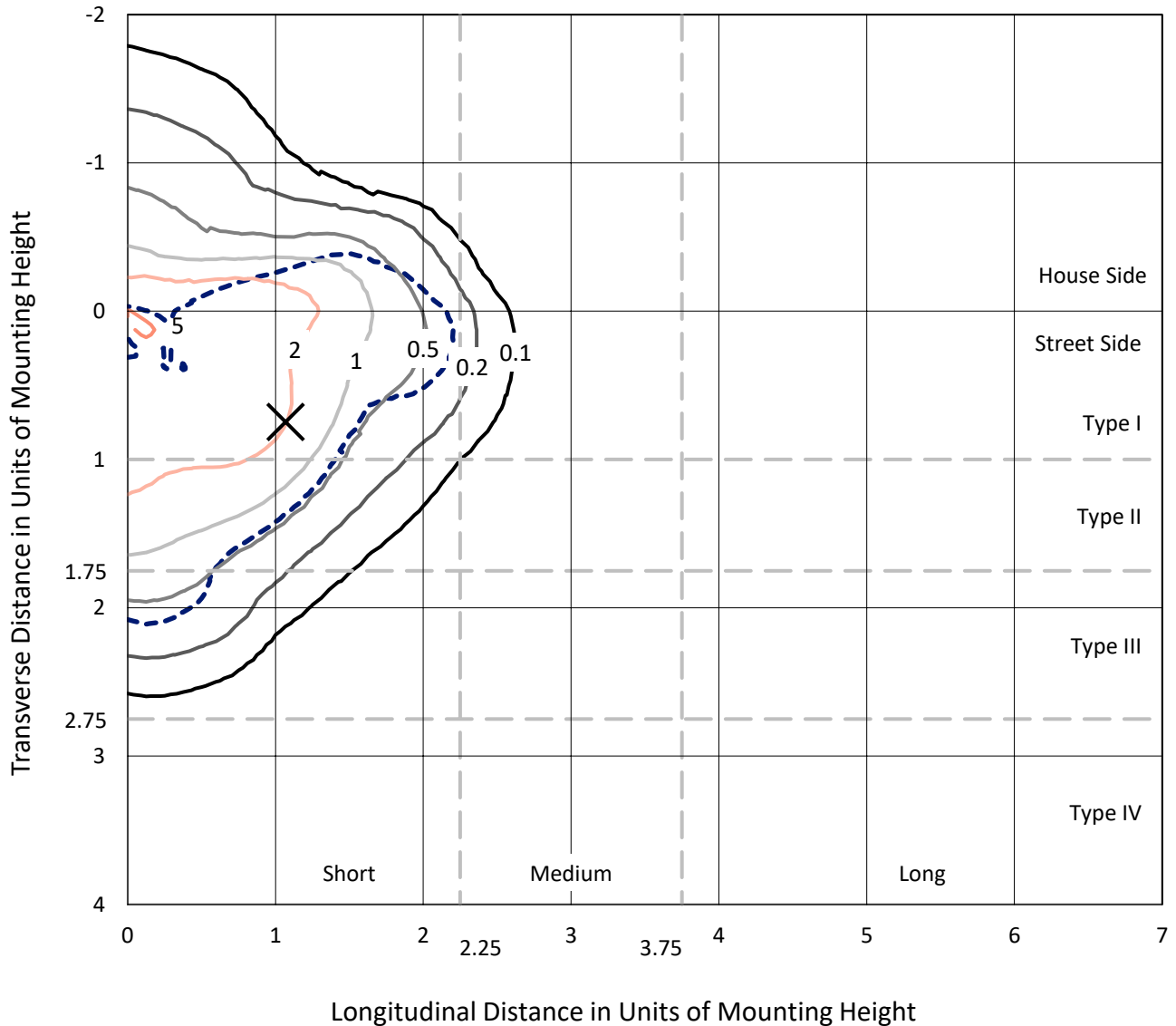
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

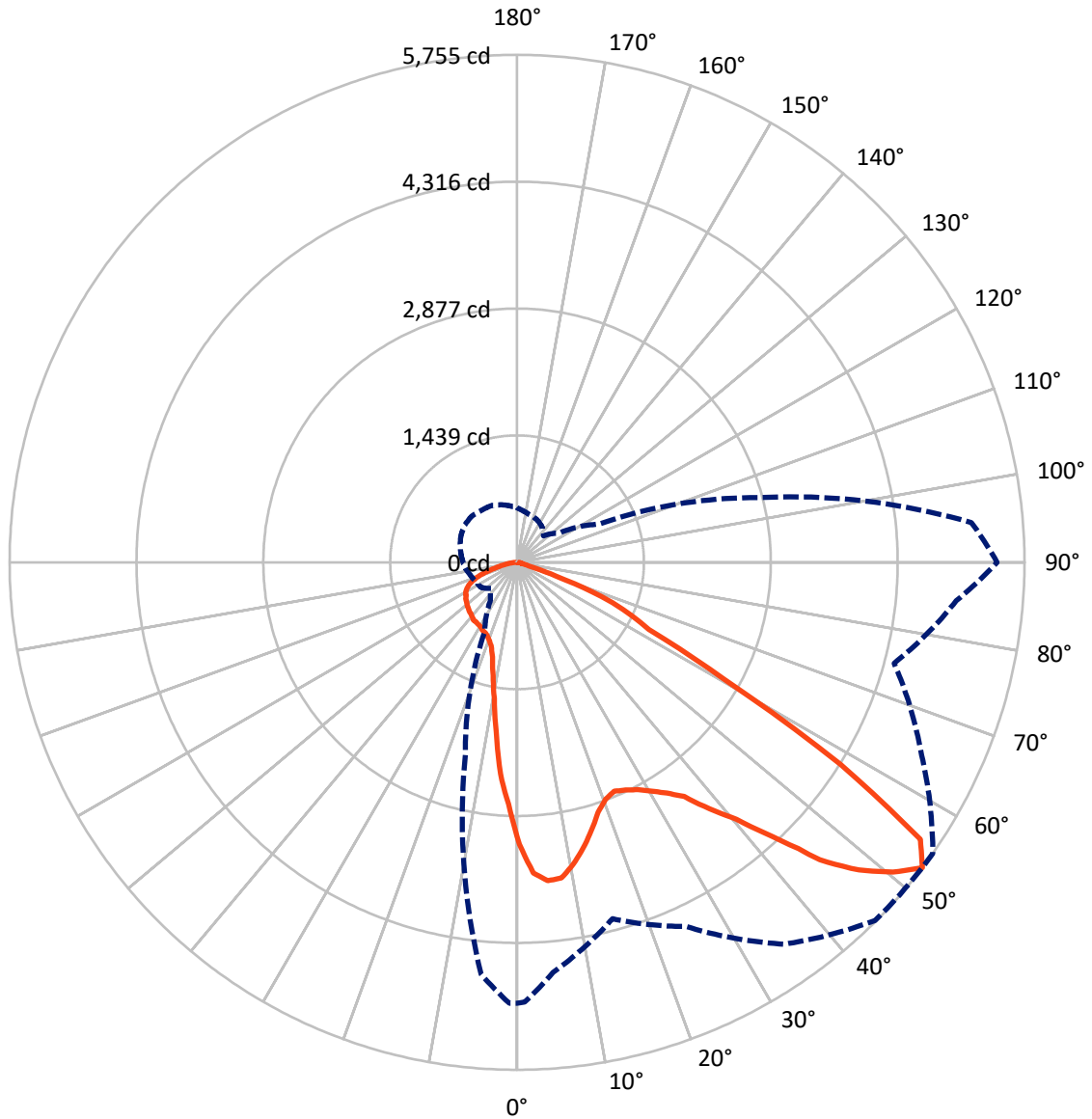
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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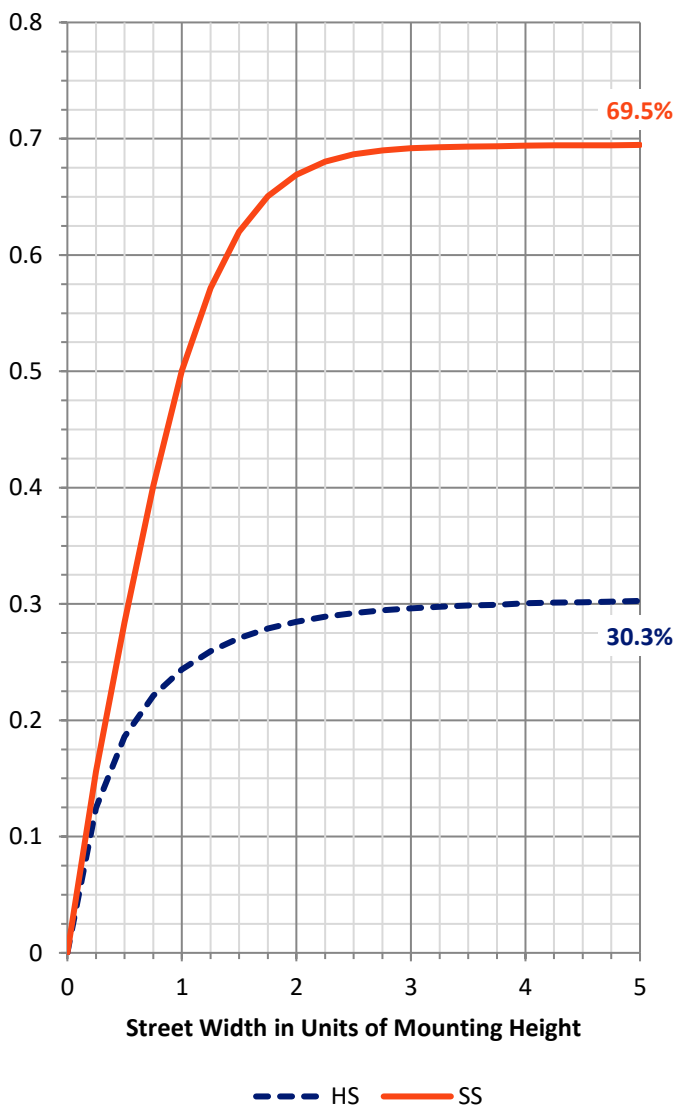
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2186.3	0.0	2186.3
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	4980.7	0.0	4980.7
	% Fixture	69.5	0.0	69.5
Total	Lumens	7167.0	0.0	7167.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.2	3.4
10°-20°	526.6	7.3
20°-30°	798.5	11.1
30°-40°	1153.8	16.1
40°-50°	1541.8	21.5
50°-60°	1720.9	24.0
60°-70°	944.0	13.2
70°-80°	204.1	2.8
80°-90°	33.0	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°	7167.0	100.0
0°-180°	7167.0	100.0

Coefficient of Utilization

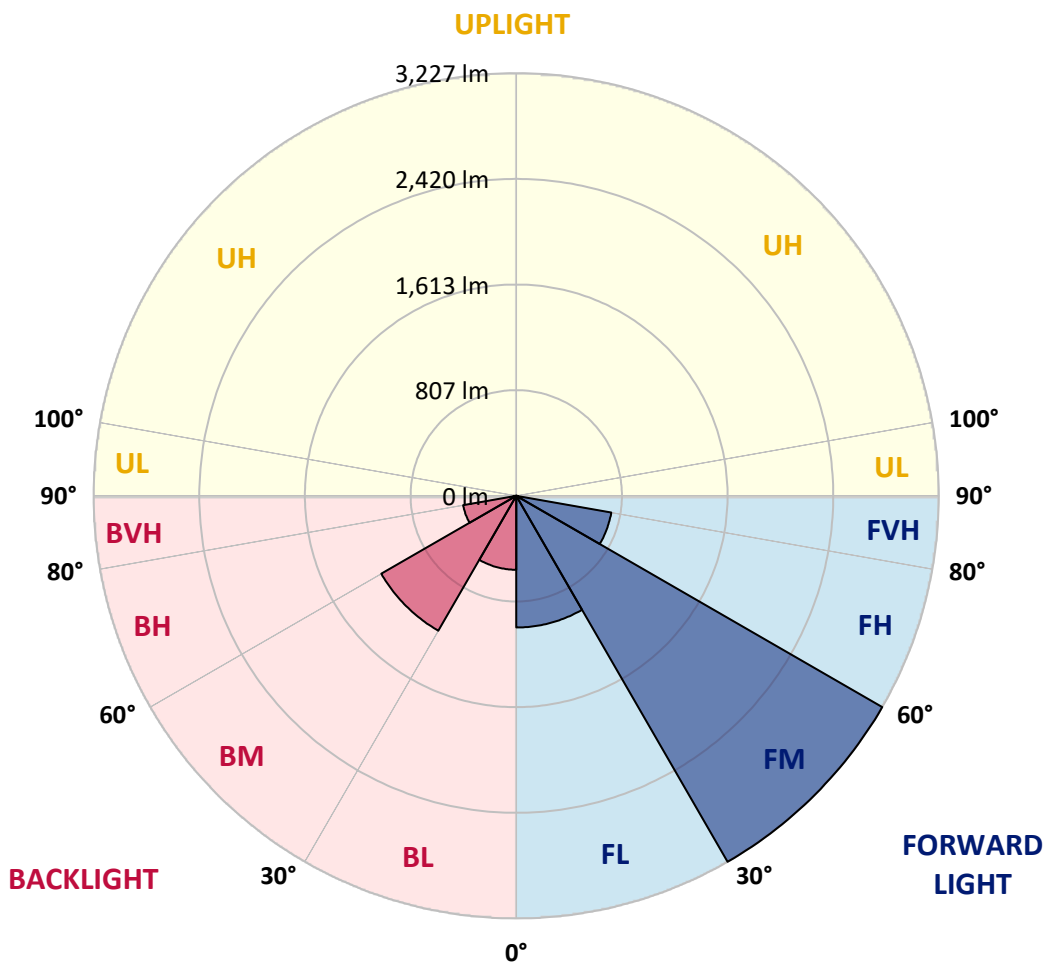


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1004.9	14.0			
FM (30°-60°)	3226.9	45.0			
FH (60°-80°)	736.6	10.3			G1/1800
FVH (80°-90°)	12.2	0.2			G1/100
BL (0°-30°)	564.5	7.9	B2/1000		
BM (30°-60°)	1189.5	16.6	B2/2500		
BH (60°-80°)	411.5	5.7	B1/500		G1/500
BVH (80°-90°)	20.8	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1
2.5°	3355.1	3336.2	3353.0	3432.5	3478.5	3509.9	3529.8	3526.6	3451.3	3378.0	3378.0
5°	3256.7	3232.6	3267.1	3447.2	3628.2	3643.9	3670.0	3627.1	3516.2	3382.2	3214.8
7.5°	2972.0	2989.8	3047.4	3283.9	3519.3	3637.6	3669.0	3614.6	3434.6	3184.4	2938.5
10°	2726.1	2768.0	2900.9	3156.2	3372.8	3526.6	3561.2	3484.9	3342.5	3035.8	2816.1
12.5°	2641.3	2615.2	2762.8	3018.1	3225.3	3308.0	3323.6	3328.9	3232.6	2960.5	2692.6
15°	2630.9	2647.6	2762.8	2956.4	3084.0	3088.2	3114.4	3155.2	3167.7	3011.8	2750.2
17.5°	2781.6	2761.7	2879.9	3033.8	2973.1	2912.4	2918.7	2977.3	3080.8	3055.8	2931.2
20°	3004.5	3049.5	3142.6	3126.9	2963.7	2809.9	2810.9	2866.4	3070.4	3237.8	3183.4
22.5°	3374.9	3418.9	3488.0	3298.6	2963.7	2779.5	2743.9	2819.3	3137.4	3454.5	3468.1
25°	3712.9	3793.5	3812.3	3589.5	3112.3	2807.8	2784.7	2859.0	3204.4	3665.8	3794.6
27.5°	4020.7	4049.9	4132.6	3776.8	3195.0	2826.6	2824.5	2919.7	3289.2	3771.5	4086.6
30°	4263.4	4260.3	4307.3	3895.0	3326.8	2932.3	2830.8	3010.8	3400.1	3946.3	4356.5
32.5°	4428.8	4464.4	4563.8	4059.3	3382.2	3032.7	2953.2	3117.5	3535.1	4029.0	4547.0
35°	4719.7	4781.4	4655.9	4150.4	3558.1	3132.1	3039.0	3263.0	3602.0	4119.0	4780.4
37.5°	4993.9	4946.8	4819.1	4199.6	3672.1	3316.3	3229.4	3544.5	3810.3	4314.7	4935.2
40°	5169.7	5168.6	4941.5	4239.3	3752.7	3597.9	3592.6	3830.2	4065.6	4438.2	5109.0
42.5°	5246.1	5319.3	4991.8	4235.2	3922.3	3939.0	4044.7	4257.1	4246.6	4463.3	5104.8
44°	5350.7	5394.7	5078.6	4244.6	4035.3	4169.3	4418.3	4553.3	4404.7	4449.7	5099.6
45°	5346.6	5349.7	4955.2	4257.1	4131.6	4361.8	4584.7	4812.8	4543.8	4420.4	5168.6
47.5°	5224.1	5188.5	4850.5	4164.0	4431.9	4870.4	5076.5	5214.7	4715.5	4357.6	5082.8
50°	4982.3	4941.5	4596.2	4124.3	4494.7	5186.4	5471.0	5521.3	4871.4	4295.8	4998.1
52.5°	4999.1	4987.6	4668.4	4183.9	4557.5	5285.9	5742.1	5754.6	5048.3	4425.6	4999.1
55°	5298.4	5258.6	4875.6	4258.2	4511.5	5169.7	5569.4	5547.5	4988.6	4347.1	5091.2
57.5°	4848.4	4874.6	4588.8	3964.1	3948.4	4202.7	4378.5	4324.1	4163.0	3923.3	4736.4
60°	3911.8	3986.1	4013.3	3315.3	2979.3	2848.6	2796.2	2699.9	2727.2	3223.2	4160.8
62.5°	3355.1	3350.9	3521.4	3005.6	1951.7	1678.6	1653.5	1675.4	1989.4	3173.0	4075.1
65°	2660.2	2731.3	2783.7	2547.1	1544.7	1246.4	1245.4	1384.5	1721.4	2651.8	3290.2
67.5°	1689.1	1782.2	1847.1	1629.4	1032.9	887.4	863.4	1030.8	1193.0	1739.3	1981.0
70°	952.3	996.2	1025.6	939.7	657.2	460.4	433.3	473.0	721.1	1126.0	1174.2
72.5°	367.3	387.2	427.0	430.1	248.0	148.6	120.3	144.4	303.5	445.8	424.9
75°	56.5	60.7	85.8	102.5	71.1	54.4	57.5	59.6	84.8	115.1	96.3
77.5°	27.2	27.2	26.2	30.4	35.6	38.7	41.9	46.1	50.2	55.5	53.4
80°	17.8	17.8	17.8	20.9	26.2	31.4	35.6	37.7	39.8	44.0	41.9
82.5°	11.5	11.5	11.5	15.7	20.9	26.2	28.3	33.5	37.7	44.0	40.8
85°	6.3	6.3	6.3	10.4	15.7	22.0	20.9	16.7	9.4	1.0	2.1
87.5°	2.1	2.1	2.1	2.1	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1
2.5°	3290.2	3242.1	3237.8	3139.5	3051.6	3008.7	2974.1	2877.8	2898.8	2843.3	2842.2
5°	3131.1	3032.7	2873.7	2742.8	2612.1	2585.9	2471.8	2372.4	2375.6	2304.3	2317.0
7.5°	2845.4	2777.4	2583.8	2378.7	2204.9	2081.5	1973.7	1908.8	1826.1	1797.9	1783.3
10°	2664.4	2580.7	2363.0	2105.5	1910.9	1845.0	1741.4	1683.8	1599.1	1557.2	1527.8
12.5°	2584.8	2462.4	2190.3	1928.7	1798.9	1730.9	1643.0	1538.4	1437.9	1399.2	1345.8
15°	2593.2	2446.7	2140.1	1857.5	1701.6	1569.7	1491.3	1375.1	1272.5	1204.5	1165.8
17.5°	2719.9	2541.9	2163.1	1803.1	1579.1	1413.8	1260.0	1134.4	1052.8	1001.5	988.9
20°	3019.1	2777.4	2201.8	1715.2	1456.7	1250.6	1061.2	930.3	867.6	866.5	867.6
22.5°	3268.2	3028.5	2280.3	1662.9	1334.2	1041.2	852.9	811.1	798.4	824.6	827.8
25°	3604.1	3311.1	2415.3	1635.7	1221.2	887.4	771.3	755.6	754.5	788.0	789.0
27.5°	3948.4	3558.1	2495.9	1556.1	1106.2	807.9	722.1	719.0	735.7	771.3	768.1
30°	4182.8	3765.3	2641.3	1460.9	970.1	737.8	702.2	706.4	729.4	756.6	760.8
32.5°	4456.0	3969.4	2679.0	1408.6	886.4	679.2	654.0	663.5	692.8	735.7	758.7
35°	4768.9	4113.8	2736.6	1337.4	855.0	634.2	621.6	632.1	667.7	695.9	721.1
37.5°	5000.2	4369.1	2747.0	1281.9	820.5	609.1	589.2	623.7	644.6	684.4	696.9
40°	5171.7	4554.4	2774.3	1247.5	793.2	576.6	576.6	599.6	627.9	664.6	689.6
42.5°	5281.6	4689.3	2794.1	1216.0	740.9	567.2	562.0	585.0	622.7	658.3	669.8
44°	5348.6	4746.9	2774.3	1186.7	726.3	555.6	555.6	575.6	604.8	646.7	660.4
45°	5365.4	4819.1	2730.3	1185.6	708.5	542.1	540.0	577.7	597.5	648.8	657.2
47.5°	5430.3	4908.1	2735.5	1152.2	665.6	509.6	546.2	563.0	580.8	625.8	654.0
50°	5428.2	4963.5	2724.0	1103.0	634.2	473.0	533.7	552.5	570.4	616.4	627.9
52.5°	5442.8	5170.7	2829.7	1024.5	577.7	425.9	491.8	533.7	555.6	594.4	618.5
55°	5435.5	5289.0	2934.3	965.9	498.1	397.7	456.2	505.4	536.8	577.7	589.2
57.5°	4964.6	4674.7	2715.7	856.1	412.3	364.2	406.0	476.2	516.0	557.8	572.5
60°	4056.2	3603.1	2239.5	630.0	339.1	334.9	377.8	466.8	483.5	520.1	545.2
62.5°	3748.5	3160.4	1775.9	481.4	289.9	306.6	348.5	421.8	447.9	492.9	516.0
65°	2933.3	2099.3	1099.9	325.5	255.3	275.3	315.0	369.5	412.3	454.1	481.4
67.5°	1737.2	1147.0	544.2	228.2	222.9	243.8	284.7	325.5	374.7	420.7	434.3
70°	946.0	564.1	232.3	173.8	189.4	208.2	248.0	276.3	323.4	358.9	382.0
72.5°	303.5	171.6	116.1	128.8	144.4	166.4	190.5	225.0	258.5	279.4	298.2
75°	73.3	72.2	82.7	90.0	104.6	121.4	141.3	159.0	185.2	205.1	221.9
77.5°	51.3	55.5	63.8	74.3	79.6	85.8	98.4	111.9	123.5	138.2	148.6
80°	39.8	42.9	49.2	54.4	59.6	64.8	71.1	76.4	83.7	93.1	98.4
82.5°	37.7	39.8	46.1	49.2	47.1	46.1	50.2	52.3	53.4	56.5	59.6
85°	3.1	0.0	2.1	7.3	17.8	26.2	28.3	28.3	27.2	29.3	29.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	4.2	3.1
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°	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1
2.5°	2829.7	2794.1	2807.8	2824.5	2800.4	2744.9	2759.6	2753.3	2809.9	2805.7	2862.2
5°	2372.4	2317.0	2323.2	2404.8	2378.7	2406.9	2350.4	2343.1	2353.5	2358.8	2368.3
7.5°	1815.6	1808.3	1871.1	1940.2	1972.6	1939.2	1883.7	1871.1	1859.6	1836.6	1888.9
10°	1481.8	1483.9	1479.7	1532.0	1568.7	1561.4	1527.8	1523.7	1501.7	1493.4	1522.6
12.5°	1322.8	1294.6	1280.9	1264.2	1292.4	1311.3	1296.6	1286.1	1287.2	1297.7	1301.9
15°	1168.9	1151.2	1121.8	1103.0	1116.6	1107.2	1102.0	1122.9	1117.7	1115.6	1140.6
17.5°	996.2	1010.9	1008.8	987.9	1005.7	998.4	997.3	982.6	962.8	948.1	956.5
20°	882.2	909.4	930.3	931.4	940.8	939.7	924.1	879.0	864.4	861.3	863.4
22.5°	841.4	856.1	881.1	916.7	916.7	900.0	881.1	828.8	815.2	800.5	794.3
25°	809.0	837.2	869.6	873.8	890.5	874.9	844.5	818.4	790.1	770.2	770.2
27.5°	792.2	823.6	847.6	855.0	878.0	865.5	834.0	800.5	767.1	766.1	748.2
30°	784.9	814.2	829.9	847.6	858.2	838.2	828.8	793.2	759.8	751.3	722.1
32.5°	762.9	804.8	834.0	829.9	838.2	829.9	816.3	786.9	749.3	730.5	727.3
35°	737.8	779.6	811.1	833.0	838.2	820.5	812.1	772.3	721.1	711.7	679.2
37.5°	724.2	749.3	788.0	823.6	830.9	821.5	793.2	752.4	701.1	690.7	662.5
40°	707.4	739.9	770.2	799.5	821.5	798.4	766.1	726.3	703.2	671.9	663.5
42.5°	694.8	731.5	756.6	789.0	814.2	783.8	746.1	719.0	686.5	665.6	641.5
44°	690.7	724.2	740.9	780.7	801.6	778.6	747.2	719.0	681.3	662.5	641.5
45°	676.0	722.1	739.9	775.5	793.2	774.4	734.6	706.4	679.2	656.1	634.2
47.5°	661.4	692.8	723.1	751.3	764.0	757.7	724.2	689.6	657.2	643.6	622.7
50°	657.2	688.6	716.9	743.0	757.7	745.1	714.8	681.3	643.6	621.6	603.8
52.5°	636.3	675.0	706.4	714.8	733.6	726.3	703.2	666.6	631.0	612.2	597.5
55°	605.9	646.7	689.6	700.1	727.3	715.8	681.3	646.7	616.4	588.1	569.3
57.5°	594.4	634.2	676.0	689.6	706.4	687.5	679.2	642.5	594.4	579.8	550.4
60°	565.1	615.4	649.8	681.3	682.3	677.1	662.5	620.6	580.8	553.6	532.7
62.5°	542.1	589.2	616.4	645.7	663.5	648.8	634.2	595.4	552.5	522.2	498.1
65°	508.6	551.5	574.5	592.3	612.2	610.1	585.0	556.7	511.7	487.7	464.7
67.5°	457.3	495.0	526.4	543.1	555.6	552.5	533.7	513.9	467.8	443.7	427.0
70°	395.6	434.3	454.1	463.6	476.2	482.4	467.8	458.3	417.6	386.2	370.5
72.5°	318.2	343.2	372.6	380.9	386.2	390.3	390.3	382.0	340.1	327.6	300.3
75°	234.4	254.3	276.3	276.3	285.7	286.8	288.8	283.6	252.2	235.5	229.2
77.5°	159.0	173.8	191.5	198.8	205.1	204.0	203.0	188.4	171.6	164.3	158.0
80°	103.6	118.2	126.7	136.1	142.3	141.3	143.4	132.9	125.6	113.0	115.1
82.5°	61.7	73.3	81.7	93.1	93.1	96.3	96.3	93.1	85.8	79.6	79.6
85°	29.3	38.7	44.0	51.3	55.5	56.5	50.2	42.9	35.6	32.5	35.6
87.5°	5.2	7.3	10.4	9.4	11.5	10.4	10.4	10.4	10.4	8.4	9.4
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: P652230

CATALOG NUMBER: GALN-SA2B-840-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1
2.5°	2841.2	2893.5	2930.2	2990.8	3095.6	3179.2	3265.1	3328.9	3336.2	3355.1
5°	2402.7	2431.0	2524.2	2645.5	2731.3	2872.6	2963.7	3129.0	3190.8	3256.7
7.5°	1876.4	1922.4	2046.9	2128.6	2317.0	2493.8	2676.9	2881.0	2962.6	2972.0
10°	1582.3	1649.3	1734.1	1864.8	1967.4	2164.1	2392.3	2619.4	2710.5	2726.1
12.5°	1389.8	1475.5	1588.6	1682.8	1781.2	1952.7	2171.5	2451.9	2570.2	2641.3
15°	1204.5	1293.5	1418.0	1548.8	1635.7	1840.8	2098.2	2414.3	2568.1	2630.9
17.5°	1014.1	1096.7	1199.3	1340.6	1515.3	1745.6	2086.7	2539.8	2708.4	2781.6
20°	850.8	896.8	1016.2	1161.6	1380.3	1648.2	2090.9	2725.1	2972.0	3004.5
22.5°	786.9	797.4	844.5	978.5	1218.1	1548.8	2165.2	2987.7	3268.2	3374.9
25°	737.8	735.7	748.2	838.2	1099.9	1510.1	2238.5	3229.4	3596.8	3712.9
27.5°	710.6	689.6	690.7	775.5	1016.2	1447.3	2332.6	3506.8	3969.4	4020.7
30°	696.9	692.8	680.2	714.8	925.1	1353.1	2348.3	3780.0	4189.1	4263.4
32.5°	688.6	647.7	632.1	644.6	839.3	1250.6	2406.9	3959.9	4461.2	4428.8
35°	646.7	610.1	599.6	612.2	778.6	1193.0	2368.3	4116.9	4665.3	4719.7
37.5°	631.0	598.6	577.7	567.2	722.1	1144.9	2348.3	4358.7	4863.1	4993.9
40°	616.4	581.9	556.7	546.2	678.1	1081.0	2342.0	4544.9	5091.2	5169.7
42.5°	599.6	577.7	549.4	530.6	624.8	1017.2	2269.9	4602.5	5161.3	5246.1
44°	594.4	560.9	531.6	525.4	603.8	984.7	2255.2	4654.8	5222.0	5350.7
45°	589.2	557.8	524.3	516.0	596.5	967.0	2235.3	4667.4	5322.4	5346.6
47.5°	574.5	554.6	522.2	499.2	580.8	928.2	2175.7	4596.2	5219.9	5224.1
50°	563.0	540.0	506.5	461.5	559.9	895.8	2202.8	4570.1	4972.9	4982.3
52.5°	550.4	516.0	497.1	419.7	525.4	868.6	2260.4	4688.3	5001.2	4999.1
55°	535.8	498.1	452.1	384.1	467.8	834.0	2399.6	4921.7	5262.8	5298.4
57.5°	512.8	480.4	414.4	352.6	401.8	768.1	2354.6	4474.8	4842.1	4848.4
60°	482.4	452.1	375.7	328.6	329.7	605.9	2105.5	3487.0	3820.7	3911.8
62.5°	453.1	436.4	343.2	294.1	280.5	482.4	1780.1	2897.7	3279.7	3355.1
65°	418.6	377.8	315.0	267.9	240.7	338.0	1261.0	2165.2	2558.7	2660.2
67.5°	374.7	330.7	277.4	235.5	206.1	226.1	650.9	1230.6	1629.4	1689.1
70°	327.6	286.8	233.4	198.8	166.4	155.9	286.8	587.1	890.5	952.3
72.5°	269.0	231.3	186.3	157.0	124.6	107.8	96.3	157.0	316.0	367.3
75°	194.6	168.5	140.2	111.9	87.9	69.0	56.5	47.1	52.3	56.5
77.5°	143.4	122.4	103.6	79.6	61.7	49.2	38.7	29.3	28.3	27.2
80°	111.9	99.4	82.7	63.8	48.1	36.7	27.2	19.8	17.8	17.8
82.5°	87.9	81.7	68.0	52.3	39.8	29.3	19.8	13.6	11.5	11.5
85°	33.5	33.5	49.2	42.9	30.4	20.9	13.6	7.3	6.3	6.3
87.5°	8.4	8.4	8.4	8.4	7.3	6.3	6.3	3.1	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)