

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: P527404

Luminaire Tested: **GALN-SA2B-830-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527404
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-830-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 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: 6772 lumens
Efficiency: N/A
Efficacy: 82.6 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

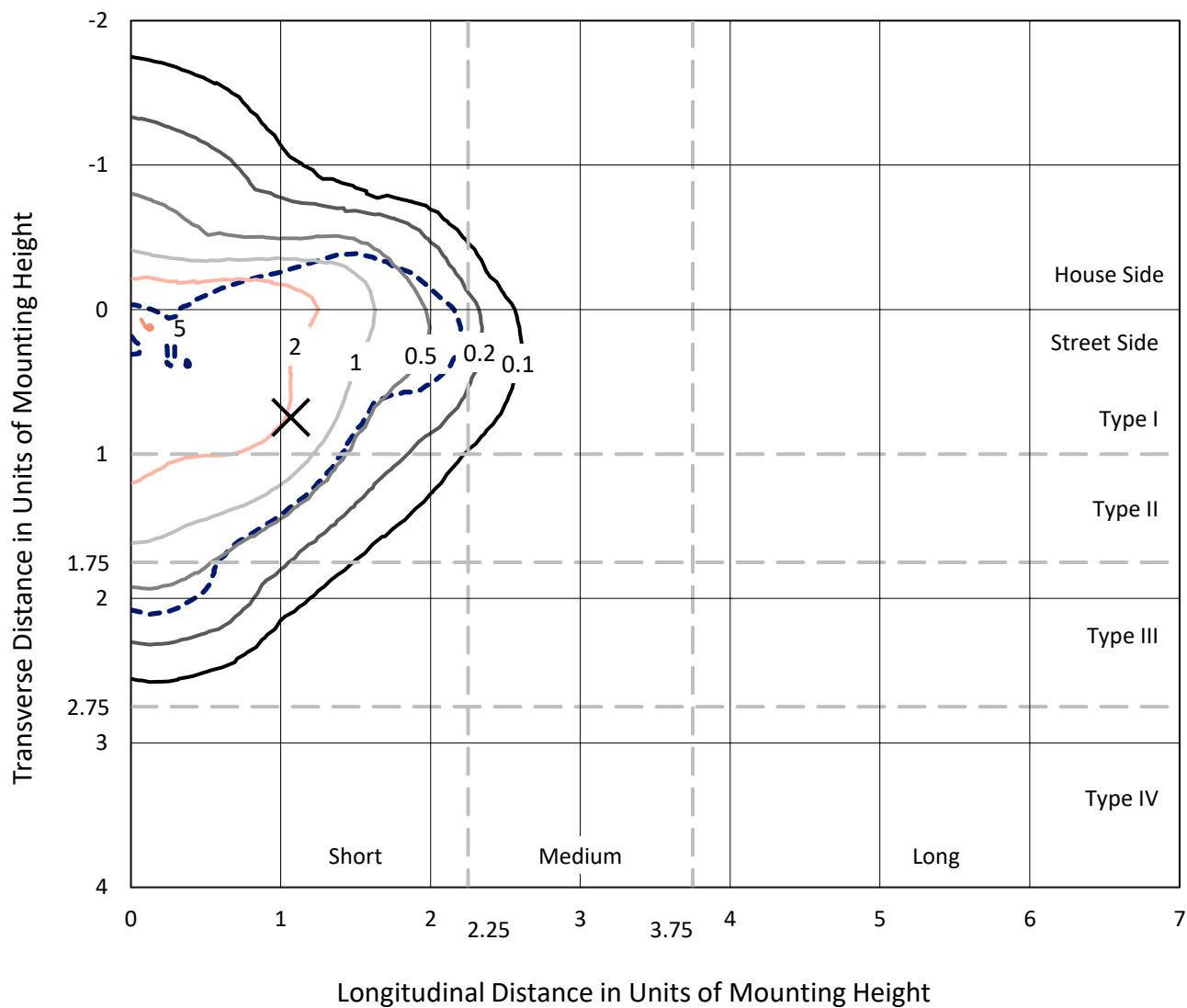


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

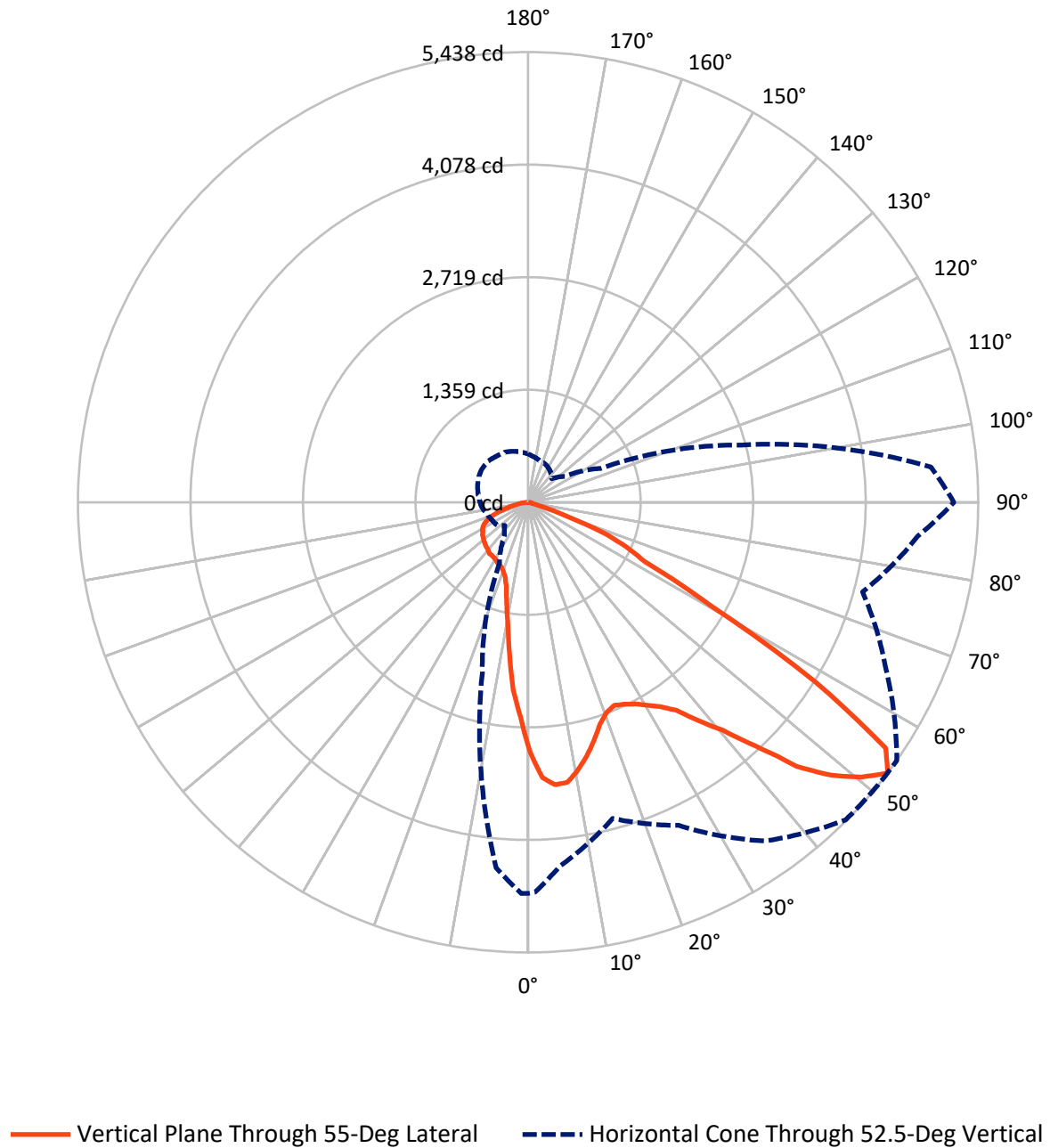


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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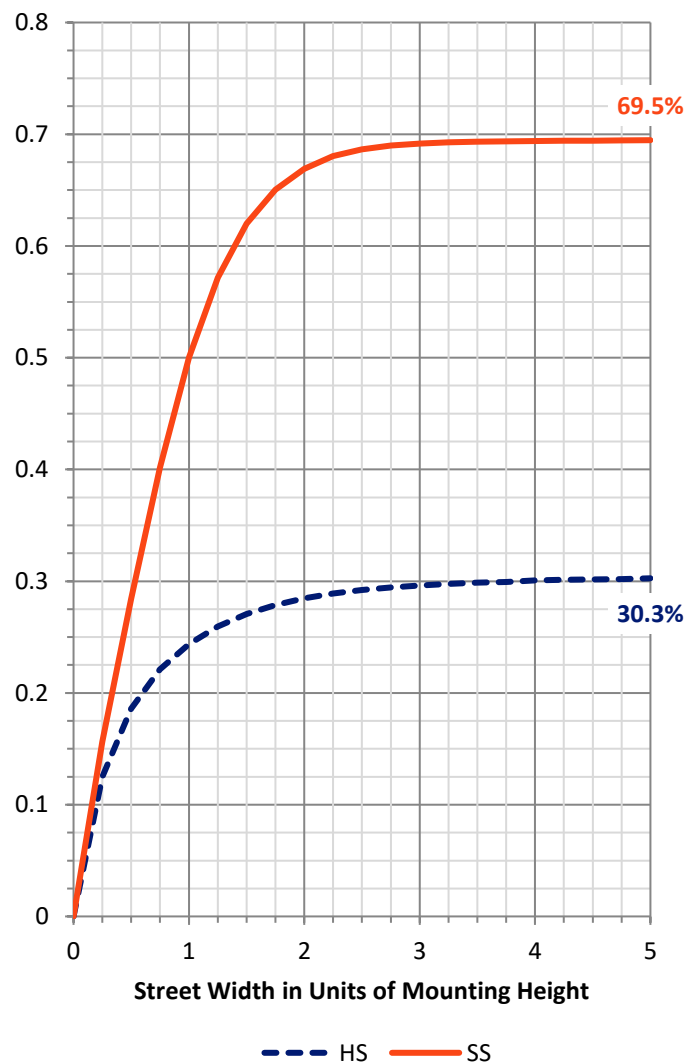
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2065.8	0.0	2065.8
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	4706.2	0.0	4706.2
	% Fixture	69.5	0.0	69.5
Total	Lumens	6772.0	0.0	6772.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.8	3.4
10°-20°	497.6	7.3
20°-30°	754.5	11.1
30°-40°	1090.2	16.1
40°-50°	1456.8	21.5
50°-60°	1626.1	24.0
60°-70°	892.0	13.2
70°-80°	192.8	2.8
80°-90°	31.2	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°	6772.0	100.0
0°-180°	6772.0	100.0

Coefficient of Utilization



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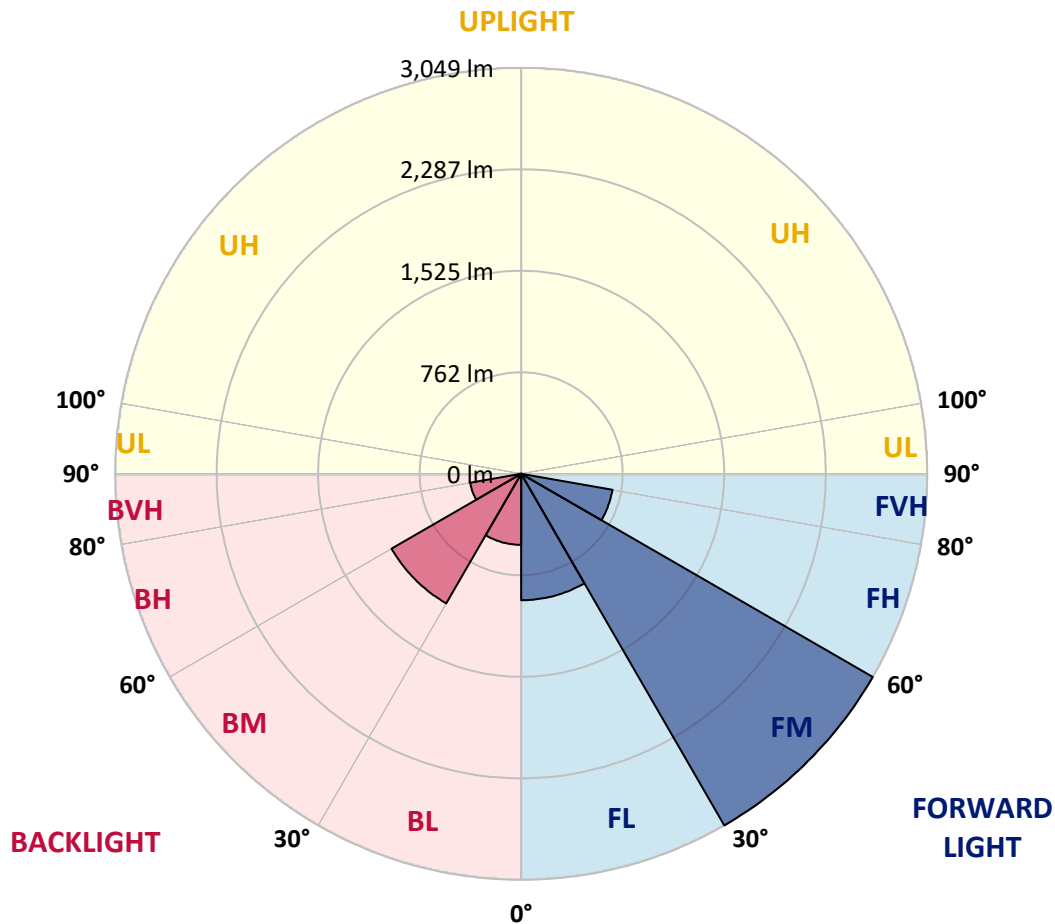
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	949.6	14.0			
FM	(30°-60°)	3049.1	45.0			
FH	(60°-80°)	696.0	10.3			G1/1800
FVH	(80°-90°)	11.5	0.2			G1/100
BL	(0°-30°)	533.4	7.9	B2/1000		
BM	(30°-60°)	1124.0	16.6	B2/2500		
BH	(60°-80°)	388.8	5.7	B1/500		G1/500
BVH	(80°-90°)	19.6	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°	3020.8	3020.8	3020.8	3020.8	3020.8	3020.8	3020.8	3020.8	3020.8	3020.8	3020.8
2.5°	3170.1	3152.3	3168.2	3243.3	3286.8	3316.5	3335.3	3332.3	3261.1	3191.9	3191.9
5°	3077.2	3054.5	3087.1	3257.2	3428.2	3443.1	3467.8	3427.2	3322.4	3195.9	3037.6
7.5°	2808.2	2825.1	2879.4	3102.9	3325.4	3437.1	3466.8	3415.4	3245.3	3009.0	2776.6
10°	2575.9	2615.4	2741.0	2982.3	3187.0	3332.3	3364.9	3292.8	3158.3	2868.6	2660.9
12.5°	2495.8	2471.1	2610.5	2851.7	3047.5	3125.7	3140.5	3145.4	3054.5	2797.4	2544.2
15°	2485.9	2501.7	2610.5	2793.4	2914.0	2918.0	2942.7	2981.3	2993.1	2845.8	2598.6
17.5°	2628.3	2609.5	2721.2	2866.6	2809.2	2751.9	2757.8	2813.2	2911.1	2887.3	2769.7
20°	2838.9	2881.4	2969.4	2954.6	2800.3	2655.0	2656.0	2708.4	2901.2	3059.4	3008.0
22.5°	3188.9	3230.5	3295.7	3116.8	2800.3	2626.3	2592.7	2663.9	2964.5	3264.1	3276.9
25°	3508.3	3584.5	3602.3	3391.6	2940.7	2653.0	2631.2	2701.4	3027.8	3463.8	3585.5
27.5°	3799.0	3826.7	3904.8	3568.6	3018.9	2670.8	2668.8	2758.8	3107.9	3563.7	3861.3
30°	4028.4	4025.5	4070.0	3680.4	3143.4	2770.7	2674.7	2844.8	3212.7	3728.8	4116.4
32.5°	4184.7	4218.3	4312.2	3835.6	3195.9	2865.6	2790.4	2945.7	3340.2	3806.9	4296.4
35°	4459.6	4517.9	4399.2	3921.6	3362.0	2959.5	2871.5	3083.1	3403.5	3892.0	4516.9
37.5°	4718.6	4674.1	4553.5	3968.1	3469.8	3133.6	3051.5	3349.1	3600.3	4076.9	4663.3
40°	4884.8	4883.8	4669.2	4005.7	3545.9	3399.6	3394.6	3619.1	3841.6	4193.6	4827.4
42.5°	4956.9	5026.2	4716.7	4001.7	3706.1	3721.9	3821.8	4022.5	4012.6	4217.3	4823.4
44°	5055.8	5097.4	4798.7	4010.6	3812.9	3939.4	4174.8	4302.3	4161.9	4204.4	4818.5
45°	5051.9	5054.8	4682.0	4022.5	3903.8	4121.4	4332.0	4547.6	4293.4	4176.8	4883.8
47.5°	4936.2	4902.6	4583.2	3934.5	4187.6	4602.0	4796.8	4927.3	4455.6	4117.4	4802.7
50°	4707.8	4669.2	4342.9	3896.9	4247.0	4900.6	5169.5	5217.0	4602.9	4059.1	4722.6
52.5°	4723.6	4712.7	4411.1	3953.3	4306.3	4994.5	5425.6	5437.5	4770.1	4181.7	4723.6
55°	5006.4	4968.8	4606.9	4023.5	4262.8	4884.8	5262.5	5241.7	4713.7	4107.5	4810.6
57.5°	4581.2	4605.9	4336.0	3745.6	3730.8	3971.1	4137.2	4085.8	3933.5	3707.1	4475.4
60°	3696.2	3766.4	3792.1	3132.6	2815.2	2691.6	2642.1	2551.1	2576.9	3045.6	3931.5
62.5°	3170.1	3166.2	3327.4	2839.9	1844.1	1586.1	1562.3	1583.1	1879.7	2998.1	3850.5
65°	2513.6	2580.8	2630.3	2406.8	1459.5	1177.7	1176.7	1308.2	1626.6	2505.7	3108.8
67.5°	1596.0	1684.0	1745.3	1539.6	976.0	838.5	815.8	974.0	1127.3	1643.4	1871.8
70°	899.8	941.4	969.0	888.0	621.0	435.1	409.4	446.9	681.3	1064.0	1109.5
72.5°	347.1	365.9	403.4	406.4	234.3	140.4	113.7	136.5	286.8	421.2	401.5
75°	53.4	57.4	81.1	96.9	67.2	51.4	54.4	56.4	80.1	108.8	91.0
77.5°	25.7	25.7	24.7	28.7	33.6	36.6	39.6	43.5	47.5	52.4	50.4
80°	16.8	16.8	16.8	19.8	24.7	29.7	33.6	35.6	37.6	41.5	39.6
82.5°	10.9	10.9	10.9	14.8	19.8	24.7	26.7	31.6	35.6	41.5	38.6
85°	5.9	5.9	5.9	9.9	14.8	20.8	19.8	15.8	8.9	1.0	2.0
87.5°	2.0	2.0	2.0	2.0	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3020.8	3020.8	3020.8	3020.8	3020.8	3020.8	3020.8	3020.8	3020.8	3020.8	3020.8
2.5°	3108.8	3063.4	3059.4	2966.5	2883.4	2842.8	2810.2	2719.2	2739.0	2686.6	2685.6
5°	2958.5	2865.6	2715.3	2591.7	2468.1	2443.4	2335.6	2241.6	2244.6	2177.4	2189.2
7.5°	2688.6	2624.3	2441.4	2247.6	2083.4	1966.8	1864.9	1803.6	1725.5	1698.8	1684.9
10°	2517.5	2438.4	2232.7	1989.5	1805.6	1743.3	1645.4	1591.0	1510.9	1471.4	1443.7
12.5°	2442.4	2326.7	2069.6	1822.4	1699.8	1635.5	1552.4	1453.6	1358.6	1322.0	1271.6
15°	2450.3	2311.9	2022.1	1755.2	1607.8	1483.2	1409.1	1299.3	1202.4	1138.1	1101.5
17.5°	2569.9	2401.8	2043.9	1703.7	1492.1	1335.9	1190.5	1071.9	994.7	946.3	934.4
20°	2852.7	2624.3	2080.5	1620.7	1376.4	1181.6	1002.7	879.1	819.7	818.7	819.7
22.5°	3088.1	2861.6	2154.6	1571.2	1260.7	983.9	805.9	766.3	754.5	779.2	782.2
25°	3405.5	3128.6	2282.2	1545.5	1153.9	838.5	728.8	713.9	712.9	744.6	745.6
27.5°	3730.8	3362.0	2358.3	1470.4	1045.2	763.4	682.3	679.3	695.1	728.8	725.8
30°	3952.3	3557.8	2495.8	1380.4	916.6	697.1	663.5	667.5	689.2	714.9	718.9
32.5°	4210.4	3750.6	2531.4	1330.9	837.5	641.7	618.0	626.9	654.6	695.1	716.9
35°	4506.0	3887.0	2585.8	1263.7	807.9	599.2	587.4	597.2	630.9	657.6	681.3
37.5°	4724.6	4128.3	2595.6	1211.3	775.2	575.5	556.7	589.3	609.1	646.7	658.6
40°	4886.7	4303.3	2621.4	1178.7	749.5	544.8	544.8	566.6	593.3	627.9	651.6
42.5°	4990.6	4430.9	2640.1	1149.0	700.1	535.9	531.0	552.7	588.3	622.0	632.8
44°	5053.8	4485.3	2621.4	1121.3	686.2	525.1	525.1	543.8	571.5	611.1	623.9
45°	5069.7	4553.5	2579.8	1120.3	669.4	512.2	510.2	545.8	564.6	613.1	621.0
47.5°	5131.0	4637.6	2584.8	1088.7	628.9	481.6	516.2	532.0	548.8	591.3	618.0
50°	5129.0	4690.0	2573.9	1042.2	599.2	446.9	504.3	522.1	538.9	582.4	593.3
52.5°	5142.8	4885.7	2673.8	968.1	545.8	402.4	464.7	504.3	525.1	561.6	584.4
55°	5135.9	4997.5	2772.6	912.7	470.7	375.8	431.1	477.6	507.3	545.8	556.7
57.5°	4690.9	4417.0	2566.0	808.9	389.6	344.1	383.7	449.9	487.5	527.0	540.9
60°	3832.7	3404.5	2116.1	595.3	320.4	316.4	357.0	441.0	456.8	491.4	515.2
62.5°	3541.9	2986.2	1678.0	454.9	273.9	289.7	329.3	398.5	423.2	465.7	487.5
65°	2771.7	1983.6	1039.2	307.5	241.3	260.1	297.6	349.1	389.6	429.1	454.9
67.5°	1641.4	1083.7	514.2	215.6	210.6	230.4	269.0	307.5	354.0	397.5	410.4
70°	893.9	533.0	219.5	164.1	179.0	196.8	234.3	261.0	305.5	339.2	360.9
72.5°	286.8	162.2	109.8	121.6	136.5	157.2	180.0	212.6	244.2	264.0	281.8
75°	69.2	68.2	78.1	85.0	98.9	114.7	133.5	150.3	175.0	193.8	209.6
77.5°	48.5	52.4	60.3	70.2	75.2	81.1	92.9	105.8	116.7	130.5	140.4
80°	37.6	40.5	46.5	51.4	56.4	61.3	67.2	72.2	79.1	88.0	92.9
82.5°	35.6	37.6	43.5	46.5	44.5	43.5	47.5	49.4	50.4	53.4	56.4
85°	3.0	0.0	2.0	6.9	16.8	24.7	26.7	26.7	25.7	27.7	27.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	4.0	3.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3020.8	3020.8	3020.8	3020.8	3020.8	3020.8	3020.8	3020.8	3020.8	3020.8	3020.8
2.5°	2673.8	2640.1	2653.0	2668.8	2646.1	2593.7	2607.5	2601.6	2655.0	2651.0	2704.4
5°	2241.6	2189.2	2195.2	2272.3	2247.6	2274.3	2220.9	2214.0	2223.8	2228.8	2237.7
7.5°	1715.6	1708.7	1768.0	1833.3	1863.9	1832.3	1779.9	1768.0	1757.1	1735.4	1784.8
10°	1400.2	1402.1	1398.2	1447.6	1482.2	1475.3	1443.7	1439.7	1419.0	1411.0	1438.7
12.5°	1249.9	1223.2	1210.3	1194.5	1221.2	1239.0	1225.1	1215.3	1216.2	1226.1	1230.1
15°	1104.5	1087.7	1060.0	1042.2	1055.1	1046.2	1041.2	1061.0	1056.1	1054.1	1077.8
17.5°	941.4	955.2	953.2	933.4	950.3	943.3	942.3	928.5	909.7	895.9	903.8
20°	833.6	859.3	879.1	880.0	888.9	888.0	873.1	830.6	816.8	813.8	815.8
22.5°	795.0	808.9	832.6	866.2	866.2	850.4	832.6	783.1	770.3	756.4	750.5
25°	764.4	791.1	821.7	825.7	841.5	826.7	798.0	773.3	746.6	727.8	727.8
27.5°	748.5	778.2	800.9	807.9	829.6	817.8	788.1	756.4	724.8	723.8	707.0
30°	741.6	769.3	784.1	800.9	810.8	792.0	783.1	749.5	717.9	710.0	682.3
32.5°	720.8	760.4	788.1	784.1	792.0	784.1	771.3	743.6	708.0	690.2	687.2
35°	697.1	736.7	766.3	787.1	792.0	775.2	767.3	729.7	681.3	672.4	641.7
37.5°	684.3	708.0	744.6	778.2	785.1	776.2	749.5	711.0	662.5	652.6	625.9
40°	668.4	699.1	727.8	755.5	776.2	754.5	723.8	686.2	664.5	634.8	626.9
42.5°	656.6	691.2	714.9	745.6	769.3	740.6	705.0	679.3	648.7	628.9	606.1
44°	652.6	684.3	700.1	737.7	757.4	735.7	706.0	679.3	643.7	625.9	606.1
45°	638.8	682.3	699.1	732.7	749.5	731.7	694.1	667.5	641.7	620.0	599.2
47.5°	624.9	654.6	683.3	710.0	721.8	715.9	684.3	651.6	621.0	608.1	588.3
50°	621.0	650.6	677.3	702.1	715.9	704.0	675.4	643.7	608.1	587.4	570.5
52.5°	601.2	637.8	667.5	675.4	693.2	686.2	664.5	629.9	596.3	578.5	564.6
55°	572.5	611.1	651.6	661.5	687.2	676.4	643.7	611.1	582.4	555.7	537.9
57.5°	561.6	599.2	638.8	651.6	667.5	649.7	641.7	607.1	561.6	547.8	520.1
60°	534.0	581.4	614.1	643.7	644.7	639.8	625.9	586.4	548.8	523.1	503.3
62.5°	512.2	556.7	582.4	610.1	626.9	613.1	599.2	562.6	522.1	493.4	470.7
65°	480.6	521.1	542.9	559.7	578.5	576.5	552.7	526.1	483.5	460.8	439.0
67.5°	432.1	467.7	497.4	513.2	525.1	522.1	504.3	485.5	442.0	419.3	403.4
70°	373.8	410.4	429.1	438.0	449.9	455.8	442.0	433.1	394.5	364.9	350.0
72.5°	300.6	324.3	352.0	359.9	364.9	368.8	368.8	360.9	321.4	309.5	283.8
75°	221.5	240.3	261.0	261.0	269.9	270.9	272.9	268.0	238.3	222.5	216.6
77.5°	150.3	164.1	181.0	187.9	193.8	192.8	191.8	178.0	162.2	155.2	149.3
80°	97.9	111.7	119.6	128.5	134.5	133.5	135.5	125.6	118.7	106.8	108.8
82.5°	58.3	69.2	77.1	88.0	88.0	91.0	91.0	88.0	81.1	75.2	75.2
85°	27.7	36.6	41.5	48.5	52.4	53.4	47.5	40.5	33.6	30.7	33.6
87.5°	4.9	6.9	9.9	8.9	10.9	9.9	9.9	9.9	9.9	7.9	8.9
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: P527404

CATALOG NUMBER: GALN-SA2B-830-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3020.8	3020.8	3020.8	3020.8	3020.8	3020.8	3020.8	3020.8	3020.8	3020.8
2.5°	2684.6	2734.1	2768.7	2826.0	2924.9	3004.0	3085.1	3145.4	3152.3	3170.1
5°	2270.3	2297.0	2385.0	2499.7	2580.8	2714.3	2800.3	2956.6	3014.9	3077.2
7.5°	1772.9	1816.5	1934.1	2011.3	2189.2	2356.4	2529.4	2722.2	2799.3	2808.2
10°	1495.1	1558.4	1638.5	1762.1	1859.0	2044.9	2260.4	2475.0	2561.0	2575.9
12.5°	1313.1	1394.2	1501.0	1590.0	1683.0	1845.1	2051.8	2316.8	2428.5	2495.8
15°	1138.1	1222.2	1339.8	1463.4	1545.5	1739.3	1982.6	2281.2	2426.6	2485.9
17.5°	958.2	1036.3	1133.2	1266.7	1431.8	1649.3	1971.7	2399.9	2559.1	2628.3
20°	803.9	847.4	960.1	1097.6	1304.2	1557.4	1975.7	2574.9	2808.2	2838.9
22.5°	743.6	753.5	798.0	924.5	1151.0	1463.4	2045.9	2823.1	3088.1	3188.9
25°	697.1	695.1	707.0	792.0	1039.2	1426.9	2115.1	3051.5	3398.6	3508.3
27.5°	671.4	651.6	652.6	732.7	960.1	1367.5	2204.1	3313.5	3750.6	3799.0
30°	658.6	654.6	642.7	675.4	874.1	1278.5	2218.9	3571.6	3958.2	4028.4
32.5°	650.6	612.1	597.2	609.1	793.0	1181.6	2274.3	3741.7	4215.3	4184.7
35°	611.1	576.5	566.6	578.5	735.7	1127.3	2237.7	3890.0	4408.1	4459.6
37.5°	596.3	565.6	545.8	535.9	682.3	1081.8	2218.9	4118.4	4595.0	4718.6
40°	582.4	549.8	526.1	516.2	640.8	1021.4	2213.0	4294.4	4810.6	4884.8
42.5°	566.6	545.8	519.1	501.3	590.3	961.1	2144.7	4348.8	4876.8	4956.9
44°	561.6	530.0	502.3	496.4	570.5	930.5	2130.9	4398.3	4934.2	5055.8
45°	556.7	527.0	495.4	487.5	563.6	913.7	2112.1	4410.1	5029.1	5051.9
47.5°	542.9	524.1	493.4	471.7	548.8	877.1	2055.8	4342.9	4932.2	4936.2
50°	532.0	510.2	478.6	436.1	529.0	846.4	2081.5	4318.2	4698.9	4707.8
52.5°	520.1	487.5	469.7	396.5	496.4	820.7	2135.8	4429.9	4725.6	4723.6
55°	506.3	470.7	427.2	362.9	442.0	788.1	2267.4	4650.4	4972.8	5006.4
57.5°	484.5	453.9	391.6	333.2	379.7	725.8	2224.8	4228.2	4575.3	4581.2
60°	455.8	427.2	355.0	310.5	311.5	572.5	1989.5	3294.7	3610.2	3696.2
62.5°	428.2	412.3	324.3	277.9	265.0	455.8	1682.0	2738.0	3099.0	3170.1
65°	395.5	357.0	297.6	253.1	227.4	319.4	1191.5	2045.9	2417.7	2513.6
67.5°	354.0	312.5	262.0	222.5	194.8	213.6	615.0	1162.8	1539.6	1596.0
70°	309.5	270.9	220.5	187.9	157.2	147.3	270.9	554.7	841.5	899.8
72.5°	254.1	218.5	176.0	148.3	117.7	101.8	91.0	148.3	298.6	347.1
75°	183.9	159.2	132.5	105.8	83.1	65.3	53.4	44.5	49.4	53.4
77.5°	135.5	115.7	97.9	75.2	58.3	46.5	36.6	27.7	26.7	25.7
80°	105.8	93.9	78.1	60.3	45.5	34.6	25.7	18.8	16.8	16.8
82.5°	83.1	77.1	64.3	49.4	37.6	27.7	18.8	12.9	10.9	10.9
85°	31.6	31.6	46.5	40.5	28.7	19.8	12.9	6.9	5.9	5.9
87.5°	7.9	7.9	7.9	7.9	6.9	5.9	5.9	3.0	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)