

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: P528080

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528080  
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-SA3A-827-U-SLL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 615mA 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: 7475 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

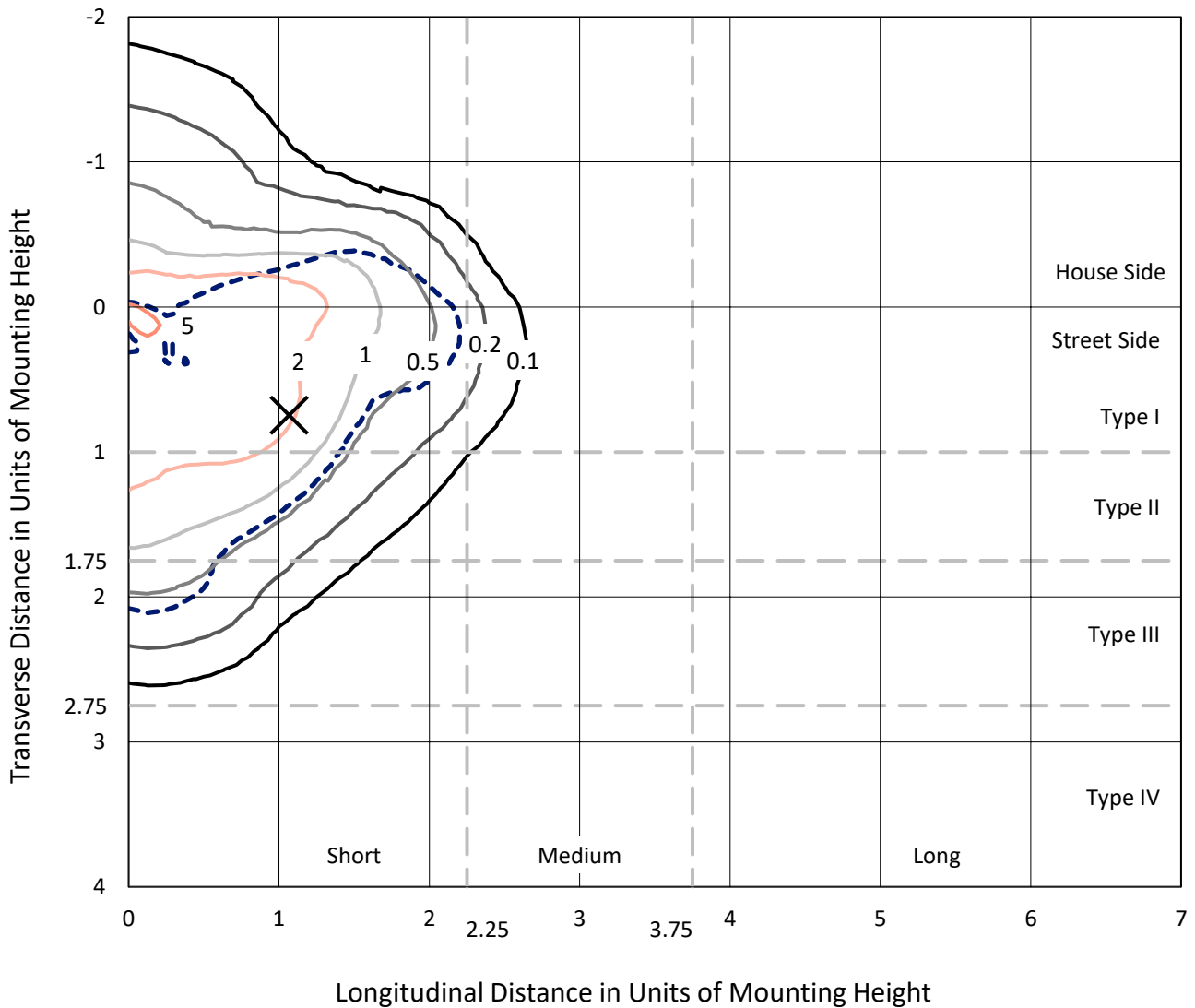
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

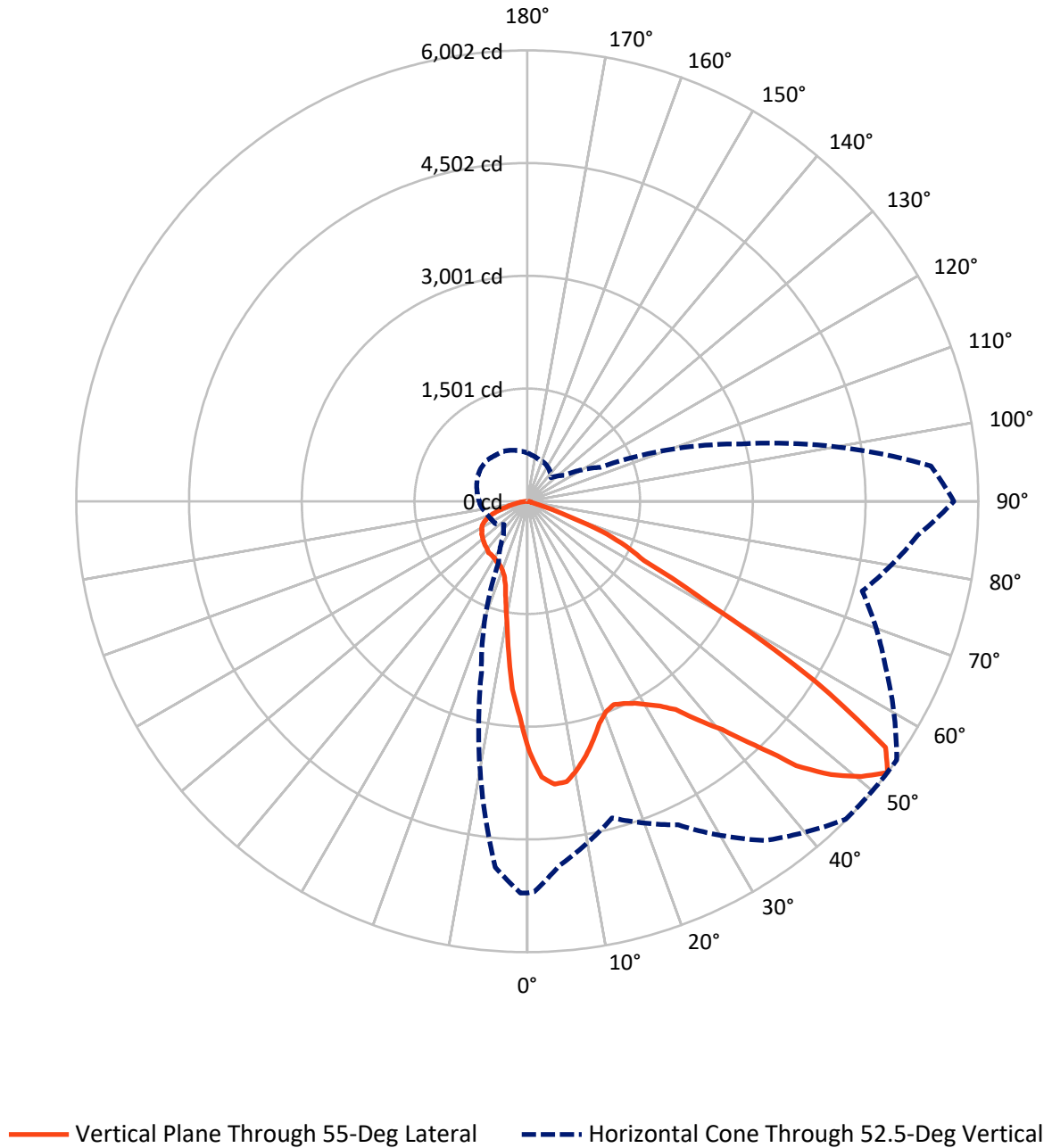
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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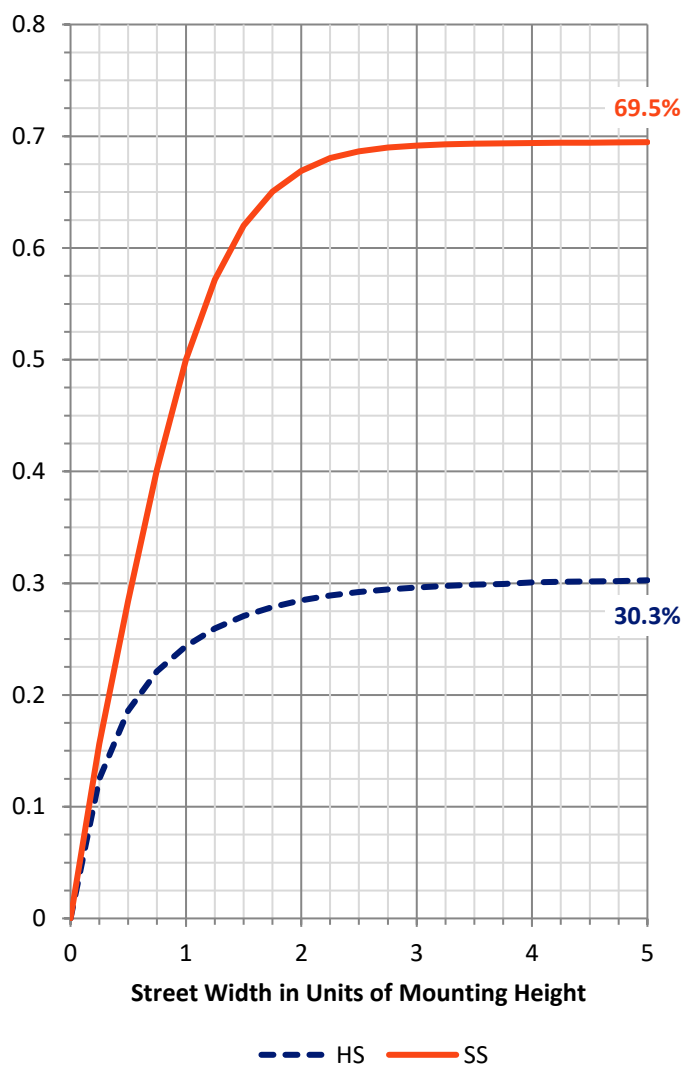
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2280.3	0.0	2280.3
	% Fixture	30.5	0.0	30.5
<b>Street Side</b>	Lumens	5194.7	0.0	5194.7
	% Fixture	69.5	0.0	69.5
<b>Total</b>	Lumens	7475.0	0.0	7475.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.7	3.4
10°-20°	549.3	7.3
20°-30°	832.9	11.1
30°-40°	1203.4	16.1
40°-50°	1608.0	21.5
50°-60°	1794.9	24.0
60°-70°	984.6	13.2
70°-80°	212.9	2.8
80°-90°	34.4	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**

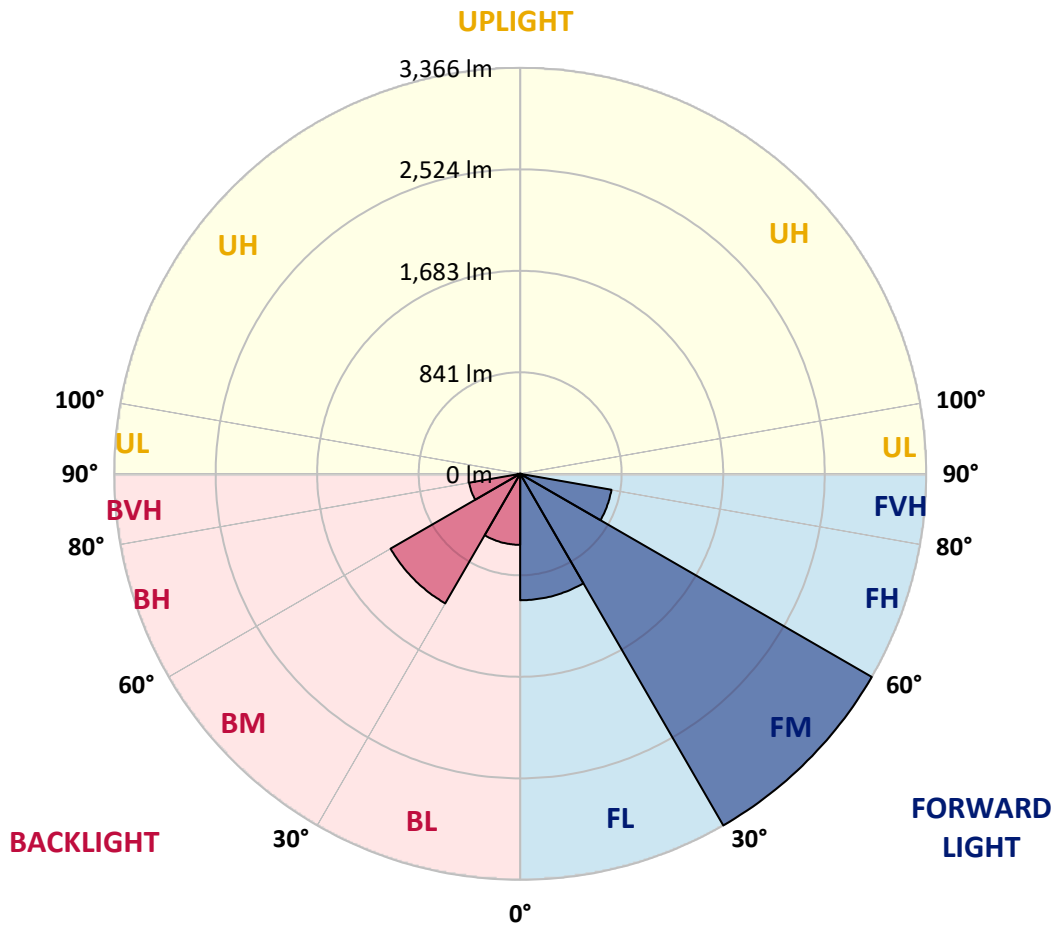


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1048.1	14.0			
FM (30°-60°)	3365.6	45.0			
FH (60°-80°)	768.2	10.3			G1/1800
FVH (80°-90°)	12.7	0.2			G1/100
BL (0°-30°)	588.7	7.9	B2/1000		
BM (30°-60°)	1240.7	16.6	B2/2500		
BH (60°-80°)	429.2	5.7	B1/500		G1/500
BVH (80°-90°)	21.7	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°	3334.4	3334.4	3334.4	3334.4	3334.4	3334.4	3334.4	3334.4	3334.4	3334.4	3334.4
2.5°	3499.2	3479.6	3497.1	3580.0	3628.0	3660.8	3681.5	3678.2	3599.7	3523.3	3523.3
5°	3396.6	3371.5	3407.6	3595.3	3784.1	3800.5	3827.8	3783.0	3667.3	3527.6	3353.0
7.5°	3099.8	3118.3	3178.3	3425.0	3670.6	3793.9	3826.7	3769.9	3582.2	3321.3	3064.8
10°	2843.3	2886.9	3025.5	3291.9	3517.8	3678.2	3714.3	3634.6	3486.1	3166.3	2937.1
12.5°	2754.9	2727.6	2881.5	3147.8	3363.9	3450.1	3466.5	3472.0	3371.5	3087.8	2808.3
15°	2743.9	2761.4	2881.5	3083.4	3216.5	3220.9	3248.2	3290.8	3303.9	3141.2	2868.4
17.5°	2901.1	2880.4	3003.7	3164.2	3100.9	3037.5	3044.1	3105.2	3213.3	3187.1	3057.2
20°	3133.6	3180.5	3277.7	3261.3	3091.0	2930.6	2931.7	2989.5	3202.4	3377.0	3320.2
22.5°	3520.0	3565.8	3637.9	3440.3	3091.0	2898.9	2861.8	2940.4	3272.2	3602.9	3617.1
25°	3872.5	3956.6	3976.2	3743.7	3246.0	2928.4	2904.4	2981.9	3342.1	3823.4	3957.7
27.5°	4193.4	4224.0	4310.2	3939.1	3332.2	2948.0	2945.9	3045.2	3430.5	3933.6	4262.2
30°	4446.6	4443.4	4492.5	4062.4	3469.8	3058.3	2952.4	3140.1	3546.2	4115.9	4543.8
32.5°	4619.1	4656.2	4759.9	4233.8	3527.6	3163.1	3080.1	3251.5	3687.0	4202.1	4742.4
35°	4922.5	4986.9	4855.9	4328.8	3711.0	3266.8	3169.6	3403.2	3756.8	4296.0	4985.8
37.5°	5208.5	5159.4	5026.2	4380.1	3830.0	3458.9	3368.3	3696.8	3974.0	4500.1	5147.4
40°	5391.8	5390.7	5153.9	4421.5	3914.0	3752.5	3747.0	3994.8	4240.3	4628.9	5328.5
42.5°	5471.5	5547.9	5206.3	4417.2	4090.8	4108.3	4218.5	4440.1	4429.2	4655.1	5324.2
44°	5580.7	5626.5	5296.9	4427.0	4208.7	4348.4	4608.2	4749.0	4594.0	4640.9	5318.7
45°	5576.3	5579.6	5168.1	4440.1	4309.1	4549.2	4781.7	5019.7	4739.1	4610.4	5390.7
47.5°	5448.6	5411.5	5058.9	4342.9	4622.4	5079.7	5294.7	5438.8	4918.1	4544.9	5301.2
50°	5196.5	5153.9	4793.7	4301.5	4687.8	5409.3	5706.2	5758.6	5080.8	4480.5	5212.8
52.5°	5213.9	5201.9	4869.0	4363.7	4753.3	5513.0	5988.9	6002.0	5265.2	4615.8	5213.9
55°	5526.1	5484.6	5085.1	4441.2	4705.3	5391.8	5808.8	5785.9	5203.0	4533.9	5310.0
57.5°	5056.8	5084.0	4786.1	4134.5	4118.1	4383.3	4566.7	4509.9	4341.9	4091.9	4940.0
60°	4079.9	4157.4	4185.8	3457.8	3107.4	2971.0	2916.4	2816.0	2844.4	3361.7	4339.7
62.5°	3499.2	3494.9	3672.8	3134.7	2035.6	1750.7	1724.5	1747.4	2074.9	3309.3	4250.2
65°	2774.5	2848.7	2903.3	2656.6	1611.0	1299.9	1298.8	1444.0	1795.5	2765.8	3431.6
67.5°	1761.6	1858.8	1926.4	1699.4	1077.3	925.6	900.5	1075.1	1244.3	1814.0	2066.1
70°	993.2	1039.1	1069.6	980.1	685.4	480.2	451.9	493.3	752.0	1174.4	1224.6
72.5°	383.1	403.8	445.3	448.6	258.7	155.0	125.5	150.6	316.5	465.0	443.1
75°	58.9	63.3	89.5	107.0	74.2	56.8	60.0	62.2	88.4	120.1	100.4
77.5°	28.4	28.4	27.3	31.7	37.1	40.4	43.7	48.0	52.4	57.8	55.7
80°	18.6	18.6	18.6	21.8	27.3	32.7	37.1	39.3	41.5	45.8	43.7
82.5°	12.0	12.0	12.0	16.4	21.8	27.3	29.5	34.9	39.3	45.8	42.6
85°	6.5	6.5	6.5	10.9	16.4	22.9	21.8	17.5	9.8	1.1	2.2
87.5°	2.2	2.2	2.2	2.2	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°	3334.4	3334.4	3334.4	3334.4	3334.4	3334.4	3334.4	3334.4	3334.4	3334.4	3334.4
2.5°	3431.6	3381.4	3377.0	3274.4	3182.7	3138.0	3101.9	3001.5	3023.4	2965.5	2964.4
5°	3265.7	3163.1	2997.2	2860.7	2724.3	2697.0	2578.0	2474.4	2477.6	2403.4	2416.5
7.5°	2967.7	2896.8	2694.8	2480.9	2299.7	2170.9	2058.5	1990.8	1904.6	1875.1	1859.9
10°	2778.9	2691.6	2464.5	2196.0	1993.0	1924.3	1816.2	1756.2	1667.8	1624.1	1593.5
12.5°	2695.9	2568.2	2284.4	2011.6	1876.2	1805.3	1713.6	1604.5	1499.7	1459.3	1403.6
15°	2704.7	2551.8	2232.0	1937.4	1774.7	1637.2	1555.3	1434.2	1327.2	1256.3	1215.9
17.5°	2836.7	2651.2	2256.1	1880.6	1647.0	1474.6	1314.1	1183.1	1098.0	1044.5	1031.4
20°	3148.9	2896.8	2296.4	1788.9	1519.3	1304.3	1106.7	970.3	904.8	903.7	904.8
22.5°	3408.6	3158.7	2378.3	1734.3	1391.6	1086.0	889.5	845.9	832.8	860.1	863.3
25°	3759.0	3453.4	2519.1	1706.0	1273.7	925.6	804.4	788.0	786.9	821.9	823.0
27.5°	4118.1	3711.0	2603.1	1623.0	1153.7	842.6	753.1	749.8	767.3	804.4	801.1
30°	4362.6	3927.1	2754.9	1523.7	1011.8	769.5	732.4	736.7	760.8	789.1	793.5
32.5°	4647.5	4139.9	2794.2	1469.1	924.5	708.4	682.2	692.0	722.6	767.3	791.3
35°	4973.8	4290.6	2854.2	1394.9	891.7	661.4	648.3	659.2	696.4	725.8	752.0
37.5°	5215.0	4556.9	2865.1	1337.0	855.7	635.2	614.5	650.5	672.3	713.8	726.9
40°	5394.0	4750.1	2893.5	1301.0	827.3	601.4	601.4	625.4	654.9	693.1	719.3
42.5°	5508.6	4890.9	2914.2	1268.3	772.8	591.6	586.1	610.1	649.4	686.5	698.5
44°	5578.5	4950.9	2893.5	1237.7	757.5	579.6	579.6	600.3	630.9	674.5	688.7
45°	5595.9	5026.2	2847.6	1236.6	738.9	565.4	563.2	602.5	623.2	676.7	685.4
47.5°	5663.6	5119.0	2853.1	1201.7	694.2	531.5	569.7	587.2	605.8	652.7	682.2
50°	5661.4	5176.8	2841.1	1150.4	661.4	493.3	556.6	576.3	594.8	642.9	654.9
52.5°	5676.7	5392.9	2951.3	1068.5	602.5	444.2	513.0	556.6	579.6	620.0	645.1
55°	5669.1	5516.3	3060.5	1007.4	519.5	414.8	475.9	527.2	559.9	602.5	614.5
57.5°	5177.9	4875.6	2832.4	892.8	430.0	379.8	423.5	496.6	538.1	581.8	597.0
60°	4230.5	3757.9	2335.7	657.1	353.6	349.3	394.0	486.8	504.3	542.5	568.7
62.5°	3909.6	3296.2	1852.2	502.1	302.3	319.8	363.5	439.9	467.1	514.1	538.1
65°	3059.4	2189.5	1147.1	339.4	266.3	287.1	328.5	385.3	430.0	473.7	502.1
67.5°	1811.8	1196.2	567.6	237.9	232.5	254.3	296.9	339.4	390.7	438.8	453.0
70°	986.7	588.3	242.3	181.2	197.6	217.2	258.7	288.1	337.3	374.4	398.4
72.5°	316.5	179.0	121.2	134.3	150.6	173.5	198.6	234.7	269.6	291.4	311.1
75°	76.4	75.3	86.2	93.9	109.1	126.6	147.3	165.9	193.2	213.9	231.4
77.5°	53.5	57.8	66.6	77.5	83.0	89.5	102.6	116.8	128.8	144.1	155.0
80°	41.5	44.8	51.3	56.8	62.2	67.7	74.2	79.7	87.3	97.1	102.6
82.5°	39.3	41.5	48.0	51.3	49.1	48.0	52.4	54.6	55.7	58.9	62.2
85°	3.3	0.0	2.2	7.6	18.6	27.3	29.5	29.5	28.4	30.6	30.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	4.4	3.3
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°	3334.4	3334.4	3334.4	3334.4	3334.4	3334.4	3334.4	3334.4	3334.4	3334.4	3334.4
2.5°	2951.3	2914.2	2928.4	2945.9	2920.8	2862.9	2878.2	2871.6	2930.6	2926.2	2985.2
5°	2474.4	2416.5	2423.1	2508.2	2480.9	2510.4	2451.4	2443.8	2454.7	2460.2	2470.0
7.5°	1893.7	1886.1	1951.5	2023.6	2057.4	2022.5	1964.6	1951.5	1939.5	1915.5	1970.1
10°	1545.5	1547.7	1543.3	1597.9	1636.1	1628.5	1593.5	1589.2	1566.3	1557.5	1588.1
12.5°	1379.6	1350.1	1336.0	1318.5	1348.0	1367.6	1352.3	1341.4	1342.5	1353.4	1357.8
15°	1219.2	1200.6	1170.1	1150.4	1164.6	1154.8	1149.3	1171.1	1165.7	1163.5	1189.7
17.5°	1039.1	1054.4	1052.2	1030.3	1048.9	1041.3	1040.2	1024.9	1004.1	988.9	997.6
20°	920.1	948.5	970.3	971.4	981.2	980.1	963.8	916.8	901.6	898.3	900.5
22.5°	877.5	892.8	919.0	956.1	956.1	938.7	919.0	864.4	850.3	835.0	828.4
25°	843.7	873.2	907.0	911.4	928.8	912.5	880.8	853.5	824.1	803.3	803.3
27.5°	826.2	859.0	884.1	891.7	915.7	902.6	869.9	835.0	800.0	799.0	780.4
30°	818.6	849.2	865.5	884.1	895.0	874.3	864.4	827.3	792.4	783.7	753.1
32.5°	795.7	839.3	869.9	865.5	874.3	865.5	851.3	820.8	781.5	761.8	758.6
35°	769.5	813.1	845.9	868.8	874.3	855.7	847.0	805.5	752.0	742.2	708.4
37.5°	755.3	781.5	821.9	859.0	866.6	856.8	827.3	784.8	731.3	720.4	690.9
40°	737.8	771.7	803.3	833.9	856.8	832.8	799.0	757.5	733.5	700.7	692.0
42.5°	724.7	762.9	789.1	823.0	849.2	817.5	778.2	749.8	716.0	694.2	669.1
44°	720.4	755.3	772.8	814.2	836.1	812.1	779.3	749.8	710.5	690.9	669.1
45°	705.1	753.1	771.7	808.8	827.3	807.7	766.2	736.7	708.4	684.3	661.4
47.5°	689.8	722.6	754.2	783.7	796.8	790.2	755.3	719.3	685.4	671.3	649.4
50°	685.4	718.2	747.7	774.9	790.2	777.1	745.5	710.5	671.3	648.3	629.8
52.5°	663.6	704.0	736.7	745.5	765.1	757.5	733.5	695.3	658.2	638.5	623.2
55°	632.0	674.5	719.3	730.2	758.6	746.6	710.5	674.5	642.9	613.4	593.8
57.5°	620.0	661.4	705.1	719.3	736.7	717.1	708.4	670.2	620.0	604.7	574.1
60°	589.4	641.8	677.8	710.5	711.6	706.2	690.9	647.2	605.8	577.4	555.6
62.5°	565.4	614.5	642.9	673.4	692.0	676.7	661.4	621.0	576.3	544.6	519.5
65°	530.5	575.2	599.2	617.8	638.5	636.3	610.1	580.7	533.7	508.6	484.6
67.5°	477.0	516.3	549.0	566.5	579.6	576.3	556.6	535.9	487.9	462.8	445.3
70°	412.6	453.0	473.7	483.5	496.6	503.2	487.9	478.1	435.5	402.8	386.4
72.5°	331.8	358.0	388.6	397.3	402.8	407.1	407.1	398.4	354.7	341.6	313.3
75°	244.5	265.2	288.1	288.1	298.0	299.1	301.2	295.8	263.0	245.6	239.0
77.5°	165.9	181.2	199.7	207.4	213.9	212.8	211.7	196.5	179.0	171.4	164.8
80°	108.1	123.3	132.1	141.9	148.4	147.3	149.5	138.6	131.0	117.9	120.1
82.5°	64.4	76.4	85.1	97.1	97.1	100.4	100.4	97.1	89.5	83.0	83.0
85°	30.6	40.4	45.8	53.5	57.8	58.9	52.4	44.8	37.1	33.8	37.1
87.5°	5.5	7.6	10.9	9.8	12.0	10.9	10.9	10.9	10.9	8.7	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



REPORT NUMBER: P528080

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

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3334.4	3334.4	3334.4	3334.4	3334.4	3334.4	3334.4	3334.4	3334.4	3334.4
2.5°	2963.3	3017.9	3056.1	3119.4	3228.6	3315.9	3405.4	3472.0	3479.6	3499.2
5°	2506.0	2535.5	2632.6	2759.2	2848.7	2996.1	3091.0	3263.5	3327.9	3396.6
7.5°	1957.0	2005.0	2134.9	2220.0	2416.5	2601.0	2792.0	3004.8	3089.9	3099.8
10°	1650.3	1720.2	1808.6	1945.0	2052.0	2257.2	2495.1	2731.9	2826.9	2843.3
12.5°	1449.5	1539.0	1656.8	1755.1	1857.7	2036.7	2264.8	2557.3	2680.6	2754.9
15°	1256.3	1349.1	1478.9	1615.4	1706.0	1919.9	2188.4	2518.0	2678.5	2743.9
17.5°	1057.6	1143.9	1250.8	1398.2	1580.4	1820.6	2176.4	2649.0	2824.7	2901.1
20°	887.4	935.4	1059.8	1211.5	1439.6	1719.1	2180.7	2842.2	3099.8	3133.6
22.5°	820.8	831.7	880.8	1020.5	1270.5	1615.4	2258.2	3116.1	3408.6	3520.0
25°	769.5	767.3	780.4	874.3	1147.1	1575.0	2334.6	3368.3	3751.4	3872.5
27.5°	741.1	719.3	720.4	808.8	1059.8	1509.5	2432.9	3657.5	4139.9	4193.4
30°	726.9	722.6	709.5	745.5	964.9	1411.3	2449.2	3942.4	4369.1	4446.6
32.5°	718.2	675.6	659.2	672.3	875.4	1304.3	2510.4	4130.1	4652.9	4619.1
35°	674.5	636.3	625.4	638.5	812.1	1244.3	2470.0	4293.8	4865.8	4922.5
37.5°	658.2	624.3	602.5	591.6	753.1	1194.1	2449.2	4546.0	5072.0	5208.5
40°	642.9	606.9	580.7	569.7	707.3	1127.5	2442.7	4740.2	5310.0	5391.8
42.5°	625.4	602.5	573.0	553.4	651.6	1060.9	2367.4	4800.3	5383.1	5471.5
44°	620.0	585.0	554.5	547.9	629.8	1027.1	2352.1	4854.8	5446.4	5580.7
45°	614.5	581.8	546.8	538.1	622.1	1008.5	2331.4	4867.9	5551.2	5576.3
47.5°	599.2	578.5	544.6	520.6	605.8	968.1	2269.2	4793.7	5444.2	5448.6
50°	587.2	563.2	528.3	481.3	583.9	934.3	2297.5	4766.4	5186.6	5196.5
52.5°	574.1	538.1	518.4	437.7	547.9	905.9	2357.6	4889.8	5216.1	5213.9
55°	558.8	519.5	471.5	400.6	487.9	869.9	2502.7	5133.2	5489.0	5526.1
57.5°	534.8	501.0	432.2	367.8	419.1	801.1	2455.8	4667.1	5050.2	5056.8
60°	503.2	471.5	391.8	342.7	343.8	632.0	2196.0	3636.8	3984.9	4079.9
62.5°	472.6	455.1	358.0	306.7	292.5	503.2	1856.6	3022.3	3420.7	3499.2
65°	436.6	394.0	328.5	279.4	251.0	352.5	1315.2	2258.2	2668.6	2774.5
67.5°	390.7	344.9	289.2	245.6	215.0	235.8	678.9	1283.6	1699.4	1761.6
70°	341.6	299.1	243.4	207.4	173.5	162.6	299.1	612.3	928.8	993.2
72.5°	280.5	241.2	194.3	163.7	129.9	112.4	100.4	163.7	329.6	383.1
75°	203.0	175.7	146.3	116.8	91.7	72.0	58.9	49.1	54.6	58.9
77.5°	149.5	127.7	108.1	83.0	64.4	51.3	40.4	30.6	29.5	28.4
80°	116.8	103.7	86.2	66.6	50.2	38.2	28.4	20.7	18.6	18.6
82.5°	91.7	85.1	70.9	54.6	41.5	30.6	20.7	14.2	12.0	12.0
85°	34.9	34.9	51.3	44.8	31.7	21.8	14.2	7.6	6.5	6.5
87.5°	8.7	8.7	8.7	8.7	7.6	6.5	6.5	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)