

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: P531355

Luminaire Tested: **GALN-SA6C-827-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531355
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-827-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16943 lumens
Efficiency: N/A
Efficacy: 52.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

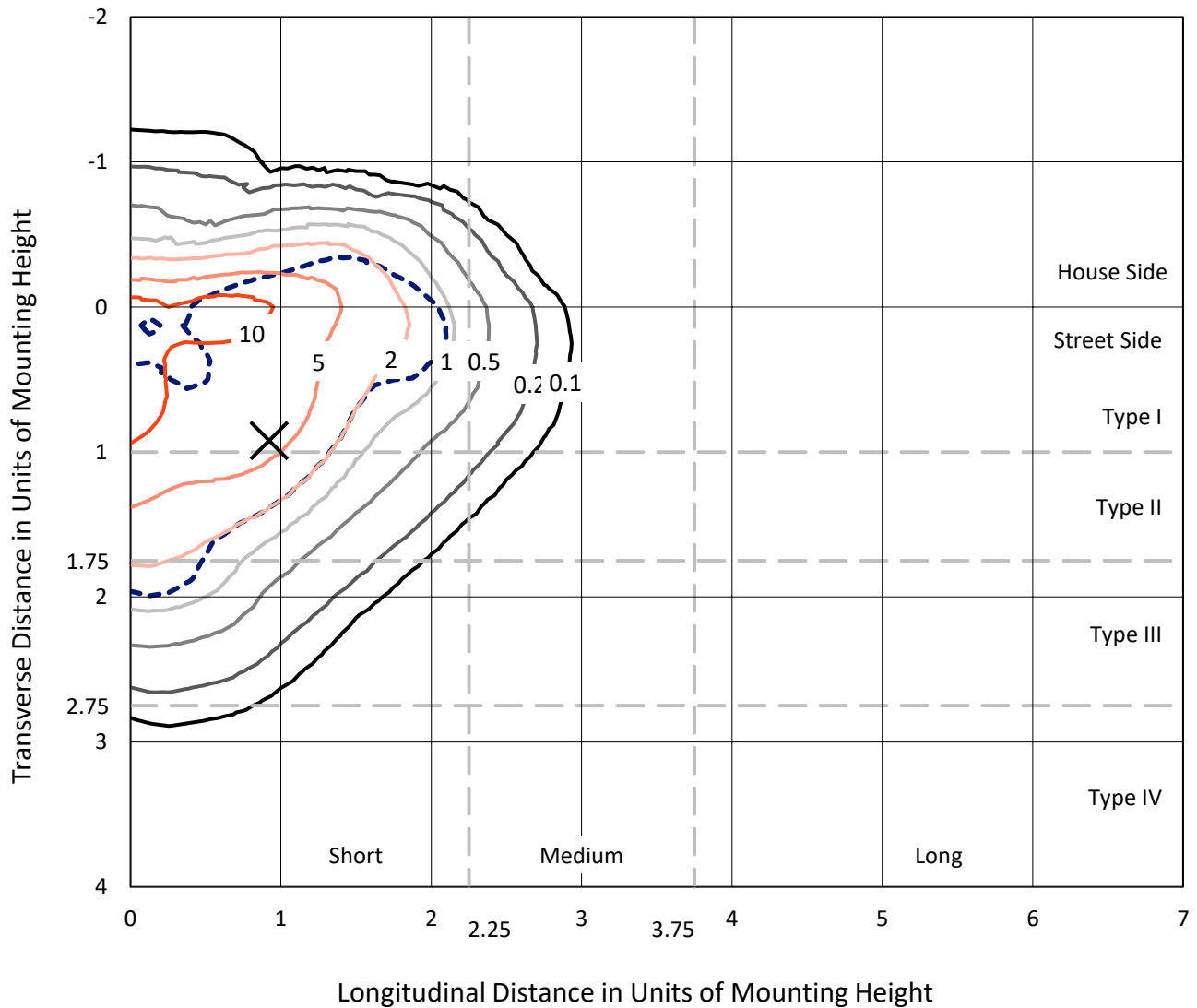
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

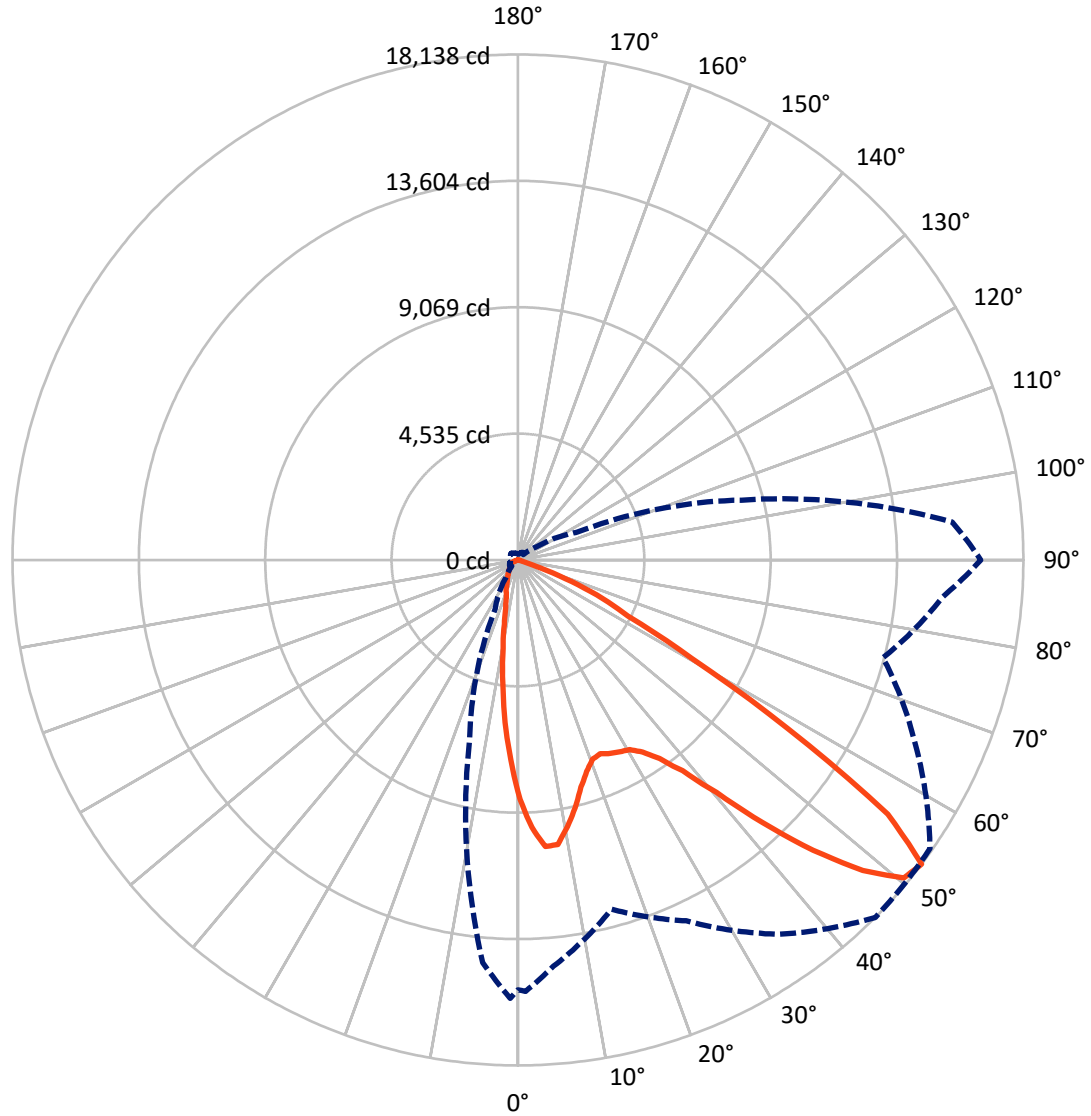
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3438.6	0.0	3438.6
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	13504.4	0.0	13504.4
	% Fixture	79.7	0.0	79.7
Total	Lumens	16943.0	0.0	16943.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	626.5	3.7
10°-20°	1236.1	7.3
20°-30°	1881.1	11.1
30°-40°	2811.6	16.6
40°-50°	4004.0	23.6
50°-60°	4304.1	25.4
60°-70°	1907.3	11.3
70°-80°	154.3	0.9
80°-90°	18.0	0.1
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°	16943.0	100.0
0°-180°	16943.0	100.0

Coefficient of Utilization

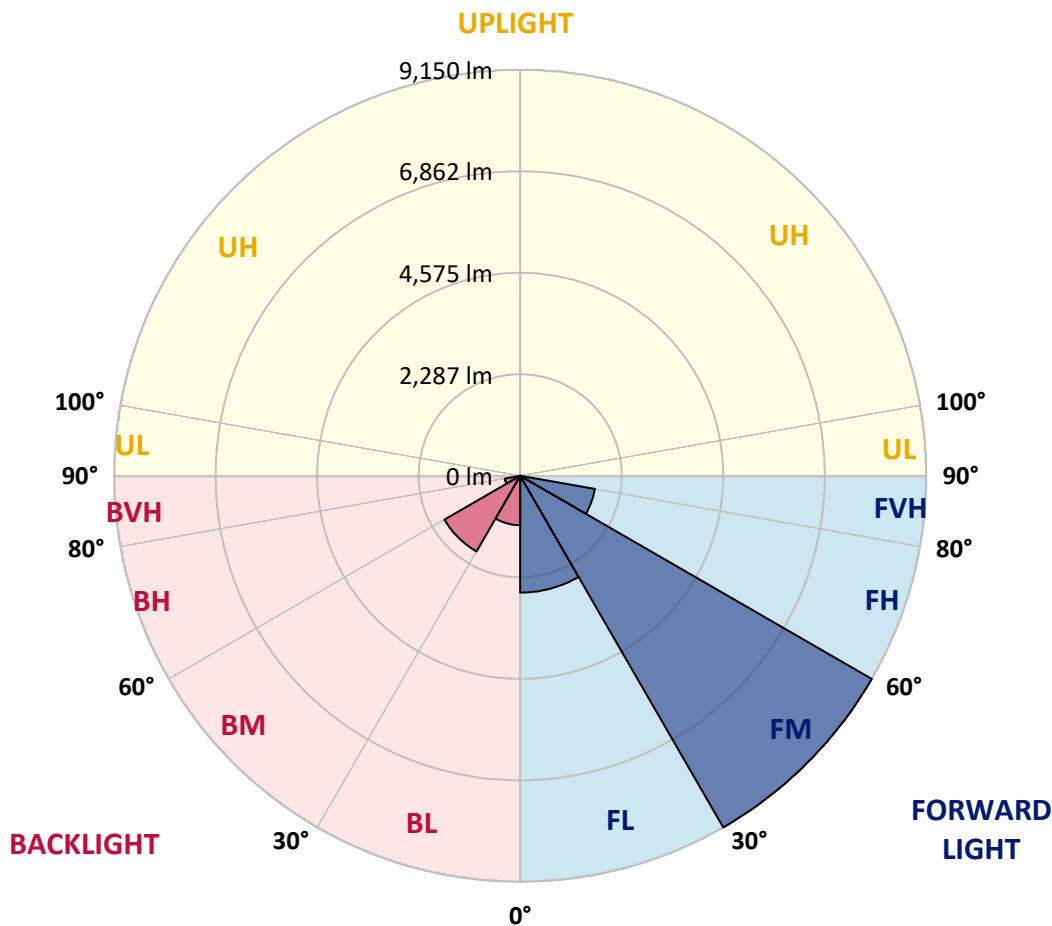


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2631.6	15.5			
FM (30°-60°)	9149.7	54.0			
FH (60°-80°)	1709.7	10.1			G1/1800
FVH (80°-90°)	13.3	0.1			G1/100
BL (0°-30°)	1112.2	6.6	B3/2500		
BM (30°-60°)	1969.9	11.6	B2/2500		
BH (60°-80°)	351.8	2.1	B1/500		G1/500
BVH (80°-90°)	4.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8590.9	8590.9	8590.9	8590.9	8590.9	8590.9	8590.9	8590.9	8590.9	8590.9	8590.9
2.5°	9090.7	9117.4	9264.0	9447.3	9544.0	9763.9	9610.6	9650.6	9567.3	9274.0	9044.1
5°	8814.2	8810.8	8997.4	9450.6	9880.5	10317.1	10330.4	10097.1	9687.2	9237.4	8594.2
7.5°	7981.1	8111.0	8304.3	9027.4	9823.9	10150.4	10307.1	10033.8	9404.0	8760.8	8064.4
10°	7351.2	7417.9	7744.5	8617.5	9200.7	9637.3	9733.9	9577.3	9094.1	8291.0	7511.2
12.5°	6988.0	7021.3	7404.6	8137.7	8754.2	9077.4	9124.1	9197.4	8850.8	8097.7	7161.3
15°	6991.3	7018.0	7534.5	8147.7	8390.9	8304.3	8457.6	8454.3	8604.2	8061.0	7454.5
17.5°	7494.5	7524.5	7991.1	8294.3	8187.7	7984.4	7974.4	8127.7	8444.3	8517.6	7897.8
20°	8361.0	8430.9	8774.2	8757.5	8157.7	7747.8	7634.5	7751.1	8487.6	8904.1	8790.8
22.5°	9527.3	9623.9	9863.9	9404.0	8294.3	7587.8	7551.2	7777.8	8774.2	9767.2	9803.9
25°	10880.2	11043.5	11160.2	10570.3	8780.8	7864.4	7691.1	8081.0	9160.7	10703.6	11093.5
27.5°	11776.6	11946.6	11919.9	11076.8	9107.4	7937.7	7791.1	8154.3	9497.3	10926.9	11766.7
30°	12476.4	12579.8	12766.4	11350.1	9434.0	8144.3	7894.4	8464.3	9607.3	11313.4	12579.8
32.5°	13292.9	13362.9	13376.2	11833.3	9937.2	8404.3	8214.3	8850.8	10093.8	11683.3	13299.5
35°	14116.0	14219.3	14002.7	12429.8	10247.1	8887.5	8747.5	9520.6	10483.7	12066.6	14092.7
37.5°	15009.1	15062.4	14562.5	12676.4	10690.3	9673.9	9597.3	10243.8	11160.2	12759.7	14972.4
40°	15758.8	15808.8	15159.0	12979.6	11156.8	10773.6	10970.2	11623.4	12079.9	13209.6	15412.3
42.5°	16175.4	16292.0	15359.0	12813.0	12093.2	12019.9	12893.0	13122.9	13146.3	13336.2	15805.5
45°	16288.7	16235.4	15029.1	12949.6	12913.0	14069.3	14862.4	15165.7	14206.0	13569.5	15905.5
47.5°	15765.5	15835.5	14542.5	12829.7	13989.4	15622.2	16648.6	17211.8	14995.7	13366.2	15658.9
50°	15342.3	15252.3	14385.9	12743.0	14279.3	16355.3	17938.2	18064.9	15722.2	13616.1	15389.0
52.5°	15425.6	15482.3	14635.8	12973.0	14285.9	16398.7	18138.2	18051.5	15745.5	13559.5	15292.3
55°	15602.2	15352.3	14529.2	12466.5	13329.5	15189.0	16098.8	15965.5	14532.5	12956.3	15055.7
57.5°	13462.8	13849.4	13359.5	11130.2	10940.2	11443.4	11426.7	11836.6	10840.2	11150.2	13706.1
60°	10926.9	10993.5	11176.8	9520.6	7571.2	7397.9	7158.0	6898.0	7294.6	9534.0	12466.5
62.5°	9610.6	9530.6	10183.8	8660.9	5345.1	4475.4	4435.4	4595.4	5628.4	9094.1	11693.3
65°	6984.7	7084.7	7557.8	6721.4	4012.2	3415.7	3355.7	3828.9	4555.4	7287.9	8924.1
67.5°	4265.5	4458.7	4502.1	4145.5	2722.6	2162.7	2076.1	2506.0	3289.1	4715.3	5231.8
70°	1969.4	2202.7	2422.6	2262.7	1576.2	889.7	839.8	1053.0	1659.5	2712.6	2775.9
72.5°	596.5	599.8	839.8	876.4	509.9	199.9	176.6	233.3	563.2	896.4	943.1
75°	43.3	46.7	113.3	130.0	96.6	50.0	53.3	63.3	120.0	199.9	150.0
77.5°	3.3	3.3	3.3	16.7	30.0	33.3	43.3	50.0	63.3	73.3	66.6
80°	3.3	0.0	3.3	13.3	23.3	33.3	40.0	46.7	50.0	56.7	50.0
82.5°	0.0	0.0	0.0	10.0	23.3	33.3	36.7	50.0	56.7	66.6	56.7
85°	0.0	0.0	0.0	10.0	23.3	36.7	33.3	16.7	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8590.9	8590.9	8590.9	8590.9	8590.9	8590.9	8590.9	8590.9	8590.9	8590.9	8590.9
2.5°	9084.1	8954.1	8657.5	8507.6	8154.3	8104.4	7757.8	7701.1	7584.5	7521.2	7367.9
5°	8311.0	8154.3	7671.2	7264.6	6791.4	6461.5	6208.2	5978.3	5845.0	5721.7	5778.4
7.5°	7681.1	7224.6	6688.1	6008.3	5461.8	5108.5	4722.0	4405.4	4218.8	4092.2	4122.2
10°	7021.3	6724.8	5978.3	5215.2	4555.4	4305.4	4002.2	3758.9	3495.7	3269.1	3162.4
12.5°	6814.7	6374.9	5438.5	4662.0	4162.1	3918.9	3572.3	3292.4	2955.8	2679.2	2582.6
15°	6851.4	6428.2	5291.8	4462.1	3872.2	3452.4	3039.1	2692.6	2322.7	2129.4	2029.4
17.5°	7447.9	6714.8	5388.5	4252.1	3469.0	2885.8	2376.0	1936.1	1659.5	1459.6	1416.3
20°	8181.0	7334.6	5595.1	4098.8	3139.1	2296.0	1736.2	1356.3	1126.3	1093.0	1083.0
22.5°	9254.0	8347.6	6038.3	3995.5	2735.9	1789.5	1189.7	986.4	923.1	916.4	919.7
25°	10753.6	9617.3	6521.5	3908.9	2432.6	1379.6	973.1	836.4	816.4	806.4	823.1
27.5°	11403.4	10383.7	6778.1	3722.3	2156.1	1243.0	959.7	829.8	773.1	756.5	766.4
30°	12206.5	10893.6	7181.3	3402.4	1749.5	1023.0	896.4	903.1	876.4	793.1	766.4
32.5°	13272.9	11530.1	7384.6	3175.8	1562.9	846.4	656.5	603.2	673.1	686.5	709.8
35°	13956.0	12176.5	7487.9	3042.5	1466.2	723.1	556.5	506.5	489.9	493.2	506.5
37.5°	15225.7	13049.6	7617.8	2902.5	1392.9	629.8	503.2	456.5	433.2	433.2	446.5
40°	15985.5	13742.8	7794.4	2825.9	1319.6	573.2	456.5	416.5	396.6	396.6	403.2
42.5°	16175.4	14086.0	7734.5	2799.2	1236.3	559.8	416.5	386.6	363.2	359.9	356.6
45°	16515.3	14609.2	7744.5	2769.2	1149.7	509.9	393.2	359.9	326.6	323.2	319.9
47.5°	16888.5	14985.7	7764.5	2652.6	1066.4	426.5	409.9	333.2	293.2	286.6	286.6
50°	16568.6	15285.7	7937.7	2535.9	959.7	346.6	403.2	313.2	259.9	249.9	253.3
52.5°	16608.6	15638.9	8304.3	2372.7	826.4	276.6	326.6	296.6	236.6	219.9	223.3
55°	15968.8	15265.7	8354.3	2199.4	646.5	213.3	249.9	259.9	199.9	193.3	193.3
57.5°	13746.1	12926.3	7371.2	1782.8	426.5	176.6	179.9	226.6	173.3	166.6	170.0
60°	11763.3	10377.0	5931.6	1176.3	266.6	140.0	130.0	229.9	153.3	150.0	160.0
62.5°	10723.6	8527.6	4498.7	729.8	183.3	106.6	90.0	186.6	133.3	133.3	146.6
65°	7747.8	5728.4	2615.9	383.2	130.0	83.3	66.6	106.6	110.0	113.3	120.0
67.5°	4798.6	2892.5	1103.0	186.6	86.6	56.7	43.3	66.6	73.3	73.3	80.0
70°	2369.3	1153.0	366.6	106.6	66.6	46.7	30.0	36.7	36.7	33.3	36.7
72.5°	733.1	346.6	93.3	66.6	46.7	30.0	16.7	13.3	6.7	0.0	3.3
75°	83.3	66.6	60.0	46.7	30.0	13.3	3.3	0.0	0.0	0.0	0.0
77.5°	50.0	56.7	56.7	46.7	30.0	10.0	0.0	0.0	0.0	0.0	0.0
80°	40.0	43.3	46.7	43.3	26.7	13.3	0.0	0.0	0.0	0.0	0.0
82.5°	50.0	56.7	63.3	56.7	36.7	16.7	6.7	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	10.0	3.3	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8590.9	8590.9	8590.9	8590.9	8590.9	8590.9	8590.9	8590.9	8590.9	8590.9	8590.9
2.5°	7304.6	7231.3	7334.6	7181.3	7178.0	7181.3	7138.0	7098.0	7161.3	7331.2	7347.9
5°	5575.1	5731.7	5781.7	5945.0	5855.0	5721.7	5748.4	5658.4	5878.3	5975.0	5898.3
7.5°	4058.8	4048.8	4385.4	4405.4	4448.7	4452.1	4445.4	4268.8	4088.8	4128.8	4248.8
10°	3149.1	2979.2	3142.4	3125.8	3232.4	3202.4	3245.7	3055.8	3119.1	3119.1	3195.8
12.5°	2565.9	2386.0	2356.0	2312.7	2356.0	2372.7	2389.3	2352.7	2459.3	2509.3	2562.6
15°	1959.4	1859.5	1832.8	1749.5	1762.8	1809.5	1849.5	1866.1	1832.8	1909.5	1916.1
17.5°	1422.9	1419.6	1436.3	1432.9	1419.6	1409.6	1406.3	1362.9	1349.6	1356.3	1382.9
20°	1079.7	1106.4	1163.0	1219.7	1249.6	1213.0	1163.0	1089.7	1059.7	1066.4	1069.7
22.5°	923.1	963.1	1039.7	1103.0	1133.0	1066.4	976.4	913.1	899.7	896.4	893.1
25°	836.4	883.1	939.7	959.7	956.4	916.4	849.8	823.1	816.4	809.8	779.8
27.5°	789.8	806.4	816.4	839.8	849.8	823.1	806.4	766.4	759.8	759.8	739.8
30°	763.1	753.1	766.4	749.8	763.1	743.1	746.5	746.5	729.8	736.5	736.5
32.5°	709.8	713.1	713.1	679.8	689.8	666.5	689.8	709.8	713.1	716.5	743.1
35°	519.9	579.8	609.8	609.8	619.8	603.2	599.8	576.5	546.5	516.5	503.2
37.5°	456.5	479.9	519.9	543.2	559.8	546.5	516.5	479.9	463.2	449.9	436.5
40°	406.6	426.5	453.2	479.9	513.2	496.5	449.9	433.2	413.2	413.2	399.9
42.5°	366.6	376.6	393.2	433.2	469.9	436.5	403.2	389.9	379.9	376.6	373.2
45°	329.9	333.2	349.9	383.2	426.5	393.2	359.9	343.2	346.6	349.9	346.6
47.5°	296.6	303.2	313.2	353.2	379.9	363.2	326.6	316.6	316.6	316.6	319.9
50°	256.6	273.3	293.2	326.6	346.6	336.6	306.6	293.2	286.6	286.6	289.9
52.5°	229.9	243.3	269.9	309.9	336.6	319.9	289.9	269.9	256.6	253.3	259.9
55°	199.9	223.3	266.6	296.6	333.2	316.6	283.3	259.9	236.6	233.3	233.3
57.5°	179.9	216.6	256.6	293.2	323.2	309.9	283.3	253.3	223.3	219.9	219.9
60°	170.0	209.9	249.9	283.3	323.2	303.2	279.9	246.6	213.3	213.3	209.9
62.5°	160.0	196.6	236.6	269.9	309.9	293.2	269.9	236.6	203.3	203.3	196.6
65°	133.3	170.0	196.6	226.6	269.9	253.3	229.9	206.6	179.9	173.3	176.6
67.5°	93.3	116.6	143.3	173.3	199.9	193.3	183.3	166.6	143.3	140.0	136.6
70°	46.7	63.3	86.6	116.6	140.0	133.3	126.6	113.3	100.0	96.6	96.6
72.5°	6.7	20.0	36.7	53.3	73.3	76.6	73.3	70.0	66.6	63.3	66.6
75°	0.0	0.0	0.0	13.3	30.0	36.7	43.3	50.0	50.0	43.3	53.3
77.5°	0.0	0.0	0.0	0.0	3.3	16.7	33.3	43.3	53.3	46.7	63.3
80°	0.0	0.0	0.0	0.0	3.3	20.0	33.3	46.7	53.3	46.7	66.6
82.5°	0.0	0.0	0.0	0.0	3.3	23.3	33.3	43.3	50.0	46.7	60.0
85°	0.0	0.0	0.0	0.0	10.0	20.0	13.3	6.7	3.3	3.3	10.0
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



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CATALOG NUMBER: GALN-SA6C-827-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8590.9	8590.9	8590.9	8590.9	8590.9	8590.9	8590.9	8590.9	8590.9	8590.9
2.5°	7441.2	7677.8	7931.1	8027.7	8327.6	8554.2	8707.5	9037.4	9087.4	9090.7
5°	5978.3	6098.3	6531.5	6734.8	7181.3	7527.9	7897.8	8430.9	8787.5	8814.2
7.5°	4248.8	4582.0	4765.3	5295.2	5845.0	6388.2	6938.0	7557.8	7971.1	7981.1
10°	3419.0	3635.6	3962.2	4358.8	4822.0	5375.1	6108.3	6828.1	7247.9	7351.2
12.5°	2752.6	3132.4	3505.7	3915.6	4268.8	4685.3	5475.1	6434.8	6781.4	6988.0
15°	2119.4	2466.0	2905.8	3385.7	3785.6	4342.1	5241.8	6338.2	6921.4	6991.3
17.5°	1562.9	1872.8	2279.4	2732.6	3332.4	4122.2	5281.8	6828.1	7377.9	7494.5
20°	1123.0	1303.0	1622.9	2149.4	2912.5	3865.6	5321.8	7324.6	8161.0	8361.0
22.5°	889.7	963.1	1173.0	1639.5	2442.6	3595.6	5605.1	8274.3	9237.4	9527.3
25°	773.1	813.1	913.1	1293.0	2146.1	3569.0	6058.3	9414.0	10670.3	10880.2
27.5°	746.5	753.1	839.8	1186.3	1986.1	3392.4	6231.6	10223.8	11563.4	11776.6
30°	786.4	893.1	899.7	1003.0	1689.5	3042.5	6321.5	11006.9	12319.8	12476.4
32.5°	679.8	646.5	669.8	776.4	1486.2	2839.2	6491.5	11690.0	13182.9	13292.9
35°	473.2	496.5	549.8	673.1	1299.6	2625.9	6534.8	12443.1	14002.7	14116.0
37.5°	436.5	449.9	493.2	573.2	1143.0	2506.0	6474.8	12993.0	14852.4	15009.1
40°	406.6	423.2	446.5	519.9	1026.4	2372.7	6391.5	13489.5	15372.3	15758.8
42.5°	383.2	396.6	416.5	496.5	926.4	2239.4	6274.9	14189.3	15838.8	16175.4
45°	356.6	376.6	399.9	483.2	869.8	2149.4	6188.2	14146.0	16108.7	16288.7
47.5°	329.9	363.2	389.9	449.9	853.1	2106.1	6224.9	13982.7	15888.8	15765.5
50°	303.2	346.6	393.2	373.2	813.1	2019.4	6268.2	14206.0	15365.6	15342.3
52.5°	279.9	329.9	366.6	306.6	723.1	1936.1	6688.1	14499.2	15735.5	15425.6
55°	246.6	296.6	293.2	246.6	586.5	1872.8	7018.0	14505.9	15485.6	15602.2
57.5°	223.3	263.3	229.9	206.6	433.2	1566.2	6481.5	12163.2	13256.2	13462.8
60°	206.6	256.6	173.3	163.3	283.3	1129.7	5658.4	9420.7	10537.0	10926.9
62.5°	189.9	243.3	136.6	133.3	196.6	803.1	4652.0	7884.4	9080.7	9610.6
65°	166.6	173.3	110.0	103.3	140.0	433.2	2832.5	5428.5	6788.1	6984.7
67.5°	136.6	133.3	90.0	83.3	93.3	209.9	1249.6	2719.2	3935.5	4265.5
70°	110.0	110.0	76.6	66.6	66.6	96.6	326.6	1083.0	1779.5	1969.4
72.5°	80.0	83.3	60.0	53.3	50.0	46.7	53.3	216.6	466.5	596.5
75°	70.0	73.3	60.0	46.7	36.7	30.0	23.3	20.0	26.7	43.3
77.5°	76.6	76.6	63.3	43.3	33.3	23.3	13.3	6.7	6.7	3.3
80°	96.6	100.0	83.3	56.7	40.0	26.7	16.7	6.7	3.3	3.3
82.5°	103.3	113.3	93.3	70.0	50.0	30.0	16.7	3.3	0.0	0.0
85°	26.7	43.3	73.3	63.3	50.0	30.0	16.7	3.3	0.0	0.0
87.5°	0.0	3.3	10.0	10.0	13.3	13.3	10.0	3.3	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

(END OF REPORT)