

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: P532761

Luminaire Tested: **GALN-SA8A-827-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532761
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-827-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15008 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

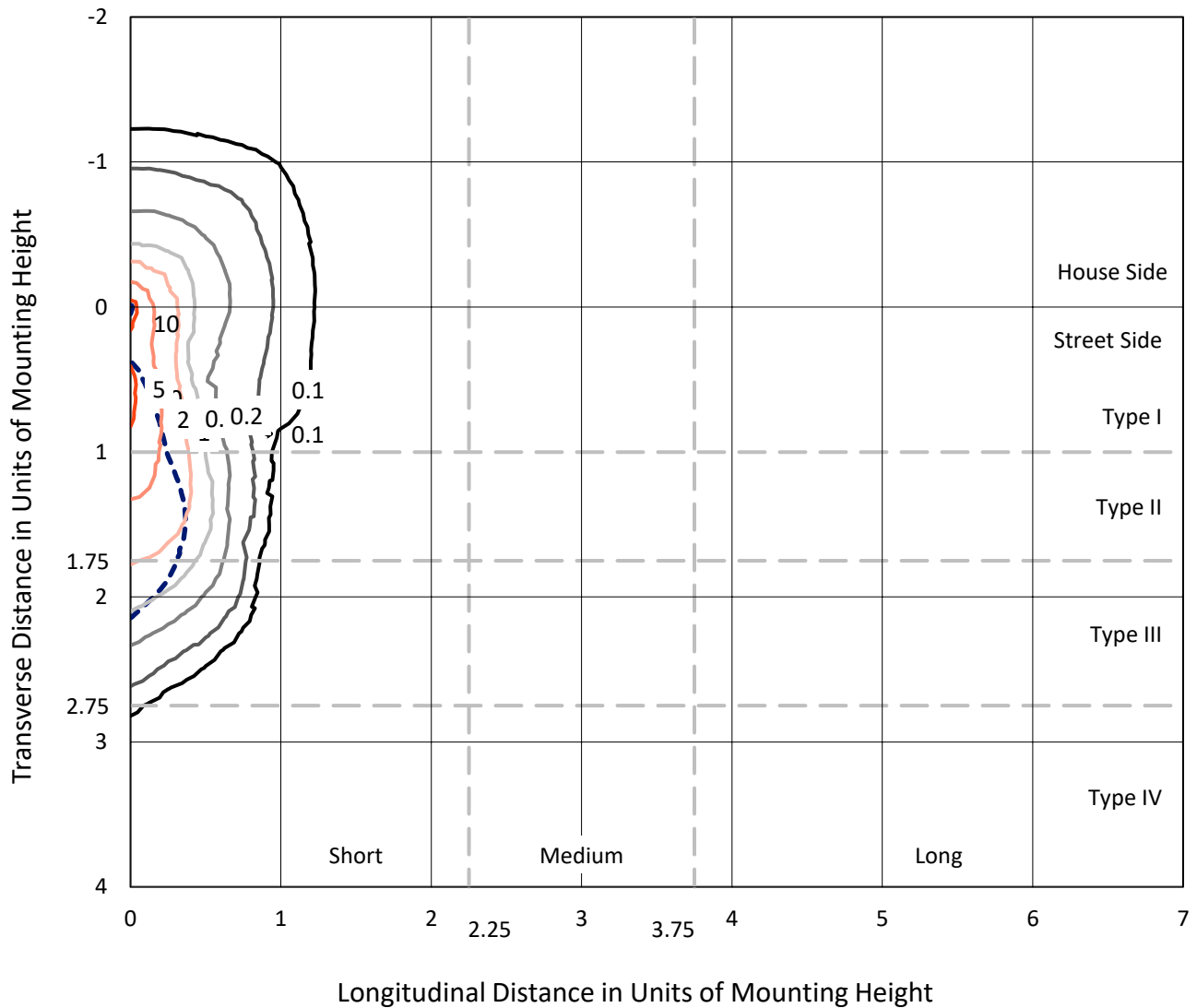
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

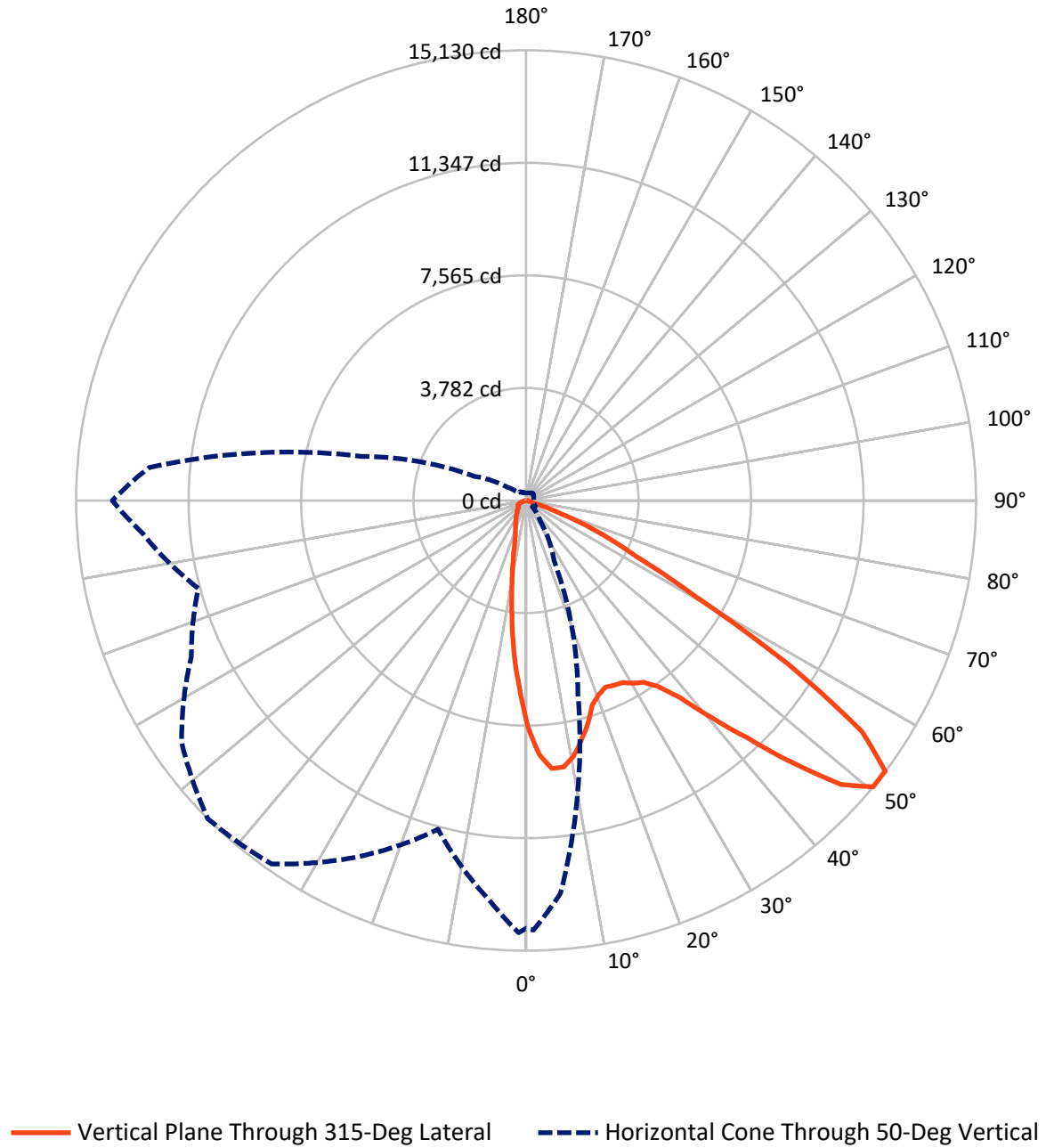
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3006.1	0.0	3006.1
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	12001.9	0.0	12001.9
	% Fixture	80.0	0.0	80.0
Total	Lumens	15008.0	0.0	15008.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.8	3.7
10°-20°	1102.6	7.3
20°-30°	1656.4	11.0
30°-40°	2486.2	16.6
40°-50°	3494.1	23.3
50°-60°	3769.0	25.1
60°-70°	1750.0	11.7
70°-80°	164.7	1.1
80°-90°	30.4	0.2
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°	15008.0	100.0
0°-180°	15008.0	100.0

Coefficient of Utilization



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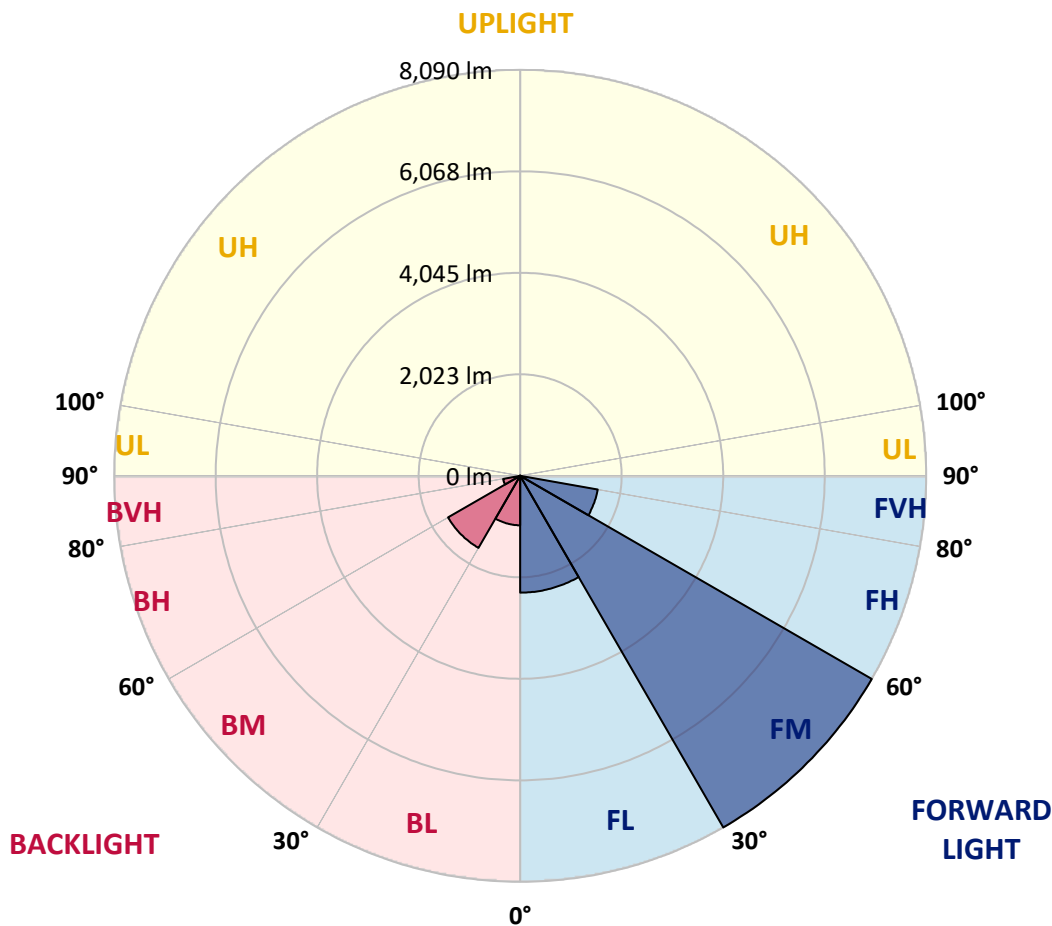
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2328.4	15.5			
FM (30°-60°)	8090.4	53.9			
FH (60°-80°)	1569.4	10.5			G1/1800
FVH (80°-90°)	13.7	0.1			G1/100
BL (0°-30°)	985.3	6.6	B2/1000		
BM (30°-60°)	1658.9	11.1	B2/2500		
BH (60°-80°)	345.2	2.3	B1/500		G1/500
BVH (80°-90°)	16.7	0.1			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°	7610.9	7610.9	7610.9	7610.9	7610.9	7610.9	7610.9	7610.9	7610.9	7610.9	7610.9
2.5°	7911.7	7789.6	7634.8	7506.7	7316.2	6932.0	6827.8	6702.8	6598.5	6458.6	6262.1
5°	7194.1	7155.4	7083.9	6601.5	6253.1	5788.6	5407.5	5246.7	5035.3	4862.5	4737.5
7.5°	6646.2	6491.3	6265.0	5779.7	5222.8	4725.6	4302.7	4055.6	3775.7	3680.4	3510.7
10°	6059.6	6095.3	5761.8	5079.9	4407.0	4005.0	3742.9	3504.7	3251.6	3084.9	2843.7
12.5°	5872.0	5755.9	5499.8	4657.1	4082.4	3707.2	3388.6	3093.8	2825.8	2557.8	2325.6
15°	5994.1	5815.4	5458.1	4567.8	3832.3	3364.8	2965.8	2566.8	2319.6	1977.2	1736.0
17.5°	6431.8	6288.9	5809.5	4663.0	3704.2	3037.2	2444.7	2033.8	1655.6	1345.9	1223.8
20°	7161.3	6958.8	6357.3	4785.1	3513.7	2641.2	1983.1	1476.9	1119.6	988.6	920.1
22.5°	7876.0	7765.8	7006.5	5020.4	3343.9	2289.8	1488.8	994.5	836.7	812.9	768.2
25°	9236.8	8906.2	7998.0	5446.2	3212.9	1959.3	1122.6	801.0	708.7	690.8	696.8
27.5°	10046.7	9769.8	8915.2	5729.1	3067.0	1706.2	949.9	735.5	673.0	634.2	619.4
30°	10823.9	10502.3	9370.8	5895.8	2754.4	1438.2	842.7	705.7	690.8	634.2	616.4
32.5°	11422.4	11106.7	10028.8	6145.9	2626.3	1265.5	693.8	550.9	512.2	506.2	559.8
35°	12339.5	12003.0	10591.6	6282.9	2528.0	1176.2	601.5	491.3	446.7	428.8	431.8
37.5°	13194.1	12964.8	11112.7	6336.5	2423.8	1149.4	539.0	440.7	402.0	390.1	387.1
40°	13908.7	13396.6	11607.0	6393.1	2379.2	1098.8	500.3	402.0	375.2	357.3	357.3
42.5°	14236.3	13715.2	12160.8	6360.3	2367.3	1018.4	500.3	369.2	348.4	330.5	327.5
45°	14164.8	13953.4	12408.0	6345.4	2367.3	938.0	455.6	360.3	330.5	306.7	300.7
47.5°	14349.4	14072.5	12717.7	6408.0	2319.6	881.4	384.1	378.2	312.7	282.9	276.9
50°	14382.2	14435.8	13256.6	6732.5	2215.4	809.9	300.7	372.2	300.7	256.1	250.1
52°	14596.6	14263.1	13420.4	6905.2	2105.2	756.3	253.1	318.6	288.8	238.2	232.3
52.5°	14301.8	14519.2	13459.1	6967.8	2117.1	720.6	244.2	312.7	282.9	238.2	223.3
55°	13971.3	14179.7	13301.3	7101.8	1941.4	565.8	190.6	226.3	256.1	208.4	199.5
57.5°	12143.0	12354.4	11559.4	6503.3	1581.1	399.0	157.8	169.7	226.3	193.5	184.6
60°	10794.1	10642.2	9701.3	5425.3	1122.6	223.3	125.1	131.0	247.1	178.7	175.7
62.5°	9865.1	9540.5	8108.2	4189.6	684.9	148.9	98.3	101.2	190.6	166.8	166.8
65°	7298.3	6935.0	5386.6	2534.0	336.5	104.2	74.4	80.4	119.1	142.9	142.9
67.5°	4165.8	4025.8	2602.5	1143.4	140.0	65.5	56.6	62.5	92.3	116.1	110.2
70°	1914.6	1718.1	1000.5	241.2	65.5	44.7	44.7	50.6	74.4	86.4	80.4
72.5°	559.8	530.0	244.2	38.7	26.8	26.8	29.8	38.7	56.6	65.5	59.6
75°	41.7	26.8	17.9	11.9	11.9	17.9	23.8	38.7	56.6	62.5	50.6
77.5°	3.0	6.0	3.0	3.0	8.9	17.9	26.8	47.6	74.4	77.4	56.6
80°	3.0	3.0	0.0	3.0	8.9	17.9	29.8	53.6	83.4	89.3	47.6
82.5°	0.0	0.0	0.0	3.0	11.9	23.8	35.7	56.6	77.4	95.3	50.6
85°	0.0	0.0	0.0	3.0	17.9	32.8	41.7	14.9	8.9	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°	7610.9	7610.9	7610.9	7610.9	7610.9	7610.9	7610.9	7610.9	7610.9	7610.9	7610.9
2.5°	6402.0	6324.6	6294.8	6321.6	6312.7	6303.7	6467.5	6431.8	6425.8	6479.4	6467.5
5°	4806.0	4669.0	5044.2	4892.3	5050.1	5145.4	5163.3	5172.2	5282.4	5166.3	5318.1
7.5°	3424.3	3460.1	3457.1	3558.3	3740.0	3900.8	3996.0	3921.6	3915.6	3900.8	3835.3
10°	2736.5	2674.0	2662.0	2638.2	2694.8	2831.8	2947.9	2855.6	2790.1	2879.4	2852.6
12.5°	2236.2	2149.9	2102.2	2007.0	2009.9	2102.2	2102.2	2102.2	2167.8	2218.4	2257.1
15°	1715.1	1643.7	1643.7	1548.4	1527.5	1530.5	1578.2	1584.1	1688.3	1718.1	1733.0
17.5°	1200.0	1161.3	1206.0	1244.7	1220.8	1226.8	1244.7	1250.6	1265.5	1253.6	1283.4
20°	923.1	917.1	929.0	997.5	1048.1	1077.9	1057.1	1027.3	1009.4	967.7	967.7
22.5°	783.1	795.0	815.9	872.5	938.0	955.8	932.0	863.5	809.9	804.0	807.0
25°	696.8	708.7	741.4	777.2	812.9	842.7	818.9	768.2	738.5	711.7	711.7
27.5°	643.2	649.1	667.0	693.8	723.6	747.4	738.5	711.7	678.9	667.0	640.2
30°	601.5	610.4	631.3	637.2	664.0	675.9	661.0	655.1	634.2	619.4	610.4
32.5°	580.6	577.7	592.6	598.5	601.5	610.4	592.6	601.5	598.5	574.7	565.8
35°	437.7	461.5	500.3	533.0	541.9	553.8	550.9	539.0	506.2	479.4	446.7
37.5°	393.1	407.9	428.8	455.6	491.3	506.2	500.3	470.5	431.8	413.9	407.9
40°	363.3	372.2	390.1	407.9	443.7	470.5	449.6	422.8	393.1	378.2	369.2
42.5°	336.5	339.5	348.4	366.3	393.1	434.7	399.0	363.3	351.4	342.4	336.5
45°	306.7	306.7	318.6	327.5	357.3	396.0	360.3	327.5	321.6	315.6	312.7
47.5°	282.9	285.9	291.8	303.7	327.5	354.3	330.5	303.7	288.8	285.9	279.9
50°	253.1	256.1	268.0	279.9	309.7	324.6	309.7	279.9	265.0	256.1	256.1
52°	229.3	238.2	250.1	273.9	294.8	318.6	300.7	268.0	250.1	241.2	235.2
52.5°	226.3	232.3	244.2	271.0	294.8	315.6	297.8	265.0	244.2	238.2	232.3
55°	202.5	211.4	232.3	265.0	291.8	315.6	291.8	262.0	232.3	217.4	211.4
57.5°	193.5	199.5	226.3	268.0	288.8	315.6	291.8	262.0	232.3	205.5	199.5
60°	184.6	196.5	226.3	259.1	285.9	318.6	294.8	259.1	226.3	193.5	193.5
62.5°	175.7	184.6	223.3	253.1	273.9	306.7	282.9	253.1	217.4	184.6	181.6
65°	151.9	166.8	196.5	211.4	235.2	265.0	241.2	220.3	190.6	163.8	160.8
67.5°	116.1	122.1	145.9	163.8	178.7	205.5	193.5	166.8	145.9	125.1	125.1
70°	80.4	86.4	104.2	113.2	128.0	142.9	134.0	113.2	98.3	86.4	83.4
72.5°	56.6	59.6	65.5	71.5	77.4	83.4	80.4	65.5	56.6	53.6	50.6
75°	44.7	50.6	53.6	50.6	47.6	44.7	44.7	38.7	32.8	29.8	29.8
77.5°	44.7	47.6	44.7	38.7	32.8	29.8	26.8	23.8	17.9	14.9	17.9
80°	38.7	38.7	38.7	32.8	29.8	26.8	23.8	20.8	17.9	14.9	14.9
82.5°	41.7	41.7	38.7	32.8	32.8	26.8	26.8	23.8	20.8	14.9	14.9
85°	0.0	0.0	0.0	6.0	14.9	26.8	26.8	23.8	20.8	17.9	17.9
87.5°	0.0	0.0	0.0	0.0	3.0	6.0	11.9	14.9	17.9	17.9	17.9
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°	7610.9	7610.9	7610.9	7610.9	7610.9	7610.9	7610.9	7610.9	7610.9	7610.9	7610.9
2.5°	6574.7	6687.9	6902.3	7116.7	7247.7	7402.5	7682.4	7831.3	8024.8	8120.1	8307.7
5°	5297.3	5565.3	5660.6	5904.7	6166.8	6428.8	6845.7	7304.2	7685.4	7947.4	8286.9
7.5°	3865.0	3927.6	4296.8	4460.6	4889.3	5365.8	5934.5	6512.2	6994.6	7423.4	7682.4
10°	2897.3	3126.6	3358.8	3671.5	4016.9	4508.2	5053.1	5690.3	6315.7	6744.4	7072.0
12.5°	2328.5	2510.2	2819.9	3156.3	3582.1	3906.7	4454.6	5085.9	5895.8	6315.7	6747.4
15°	1762.8	1995.0	2346.4	2694.8	3144.4	3486.9	4040.7	4835.8	5877.9	6455.6	6827.8
17.5°	1307.2	1465.0	1780.7	2170.7	2629.3	3111.7	3859.1	4809.0	6077.4	6765.3	7149.4
20°	1000.5	1054.1	1253.6	1602.0	2099.3	2730.5	3564.3	4925.1	6667.0	7518.6	7908.7
22.5°	809.9	833.8	911.2	1152.4	1634.7	2397.0	3424.3	5005.5	7331.0	8420.9	8942.0
25°	705.7	699.8	750.4	854.6	1277.4	2084.4	3245.7	5309.2	8144.0	9480.9	9948.4
27.5°	643.2	643.2	667.0	741.4	1060.1	1881.9	3132.5	5526.6	8962.8	10412.9	10666.0
30°	610.4	616.4	684.9	708.7	881.4	1640.7	2944.9	5746.9	9745.9	11008.5	11356.9
32.5°	565.8	541.9	527.0	586.6	741.4	1423.3	2757.3	5839.2	10380.2	11738.0	12035.8
35°	434.7	422.8	440.7	485.4	637.2	1238.7	2548.9	5943.4	11109.7	12583.7	12643.2
37.5°	393.1	390.1	402.0	440.7	536.0	1077.9	2400.0	5916.6	11666.5	13283.4	13122.6
40°	363.3	363.3	372.2	405.0	479.4	964.8	2245.2	5892.8	12205.5	14069.5	13599.1
42.5°	339.5	339.5	354.3	375.2	455.6	890.3	2129.0	5860.1	12658.1	14551.9	13879.0
45°	306.7	315.6	339.5	360.3	461.5	839.7	2042.7	5735.0	12813.0	14546.0	13745.0
47.5°	282.9	294.8	318.6	348.4	416.9	824.8	1983.1	5624.8	12759.4	14188.6	13325.1
50°	256.1	271.0	303.7	354.3	354.3	795.0	1920.6	5723.1	12720.6	13911.7	12923.1
52°	238.2	250.1	291.8	345.4	309.7	732.5	1881.9	5913.7	12878.5	13876.0	12744.5
52.5°	235.2	244.2	282.9	339.5	294.8	720.6	1855.1	5958.3	12929.1	13786.7	12866.6
55°	208.4	220.3	259.1	265.0	241.2	592.6	1768.7	6059.6	12679.0	13611.0	12750.4
57.5°	196.5	202.5	229.3	217.4	208.4	446.7	1521.6	5901.8	11261.6	12089.4	11863.1
60°	181.6	187.6	214.4	169.7	175.7	312.7	1143.4	5124.6	9043.2	10073.5	10481.4
62.5°	175.7	172.7	202.5	137.0	148.9	226.3	807.0	4165.8	6967.8	8292.8	8998.5
65°	154.8	151.9	145.9	116.1	128.0	175.7	482.4	2718.6	4910.2	6274.0	6661.1
67.5°	119.1	125.1	107.2	92.3	107.2	137.0	268.0	1217.9	2575.7	3763.8	4076.4
70°	83.4	89.3	86.4	80.4	95.3	113.2	154.8	416.9	1066.0	1977.2	2179.7
72.5°	50.6	62.5	65.5	68.5	83.4	98.3	110.2	134.0	282.9	699.8	869.5
75°	29.8	41.7	50.6	59.6	68.5	83.4	92.3	95.3	98.3	131.0	211.4
77.5°	20.8	29.8	44.7	56.6	68.5	83.4	98.3	104.2	98.3	92.3	98.3
80°	17.9	29.8	41.7	53.6	71.5	86.4	98.3	98.3	95.3	83.4	89.3
82.5°	17.9	29.8	44.7	56.6	68.5	83.4	95.3	98.3	89.3	83.4	86.4
85°	20.8	32.8	47.6	59.6	74.4	68.5	62.5	50.6	47.6	38.7	41.7
87.5°	20.8	29.8	29.8	32.8	35.7	35.7	35.7	32.8	26.8	23.8	23.8
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-SA8A-827-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7610.9	7610.9	7610.9	7610.9	7610.9	7610.9	7610.9	7610.9	7610.9	7610.9
2.5°	8316.7	8554.9	8545.9	8551.9	8516.2	8275.0	8158.8	7864.1	7947.4	7911.7
5°	8635.3	8870.5	9073.0	9049.2	8775.2	8447.7	7962.3	7503.8	7378.7	7194.1
7.5°	8316.7	8882.4	9070.0	9043.2	8638.2	8218.4	7444.2	6985.6	6768.3	6646.2
10°	7810.5	8465.5	8697.8	8745.4	8471.5	7834.3	7122.6	6387.1	6271.0	6059.6
12.5°	7521.6	7998.0	8141.0	8269.0	8173.7	7697.3	6878.4	6172.7	6011.9	5872.0
15°	7286.4	7569.3	7628.8	7774.7	7831.3	7575.2	7006.5	6405.0	6009.0	5994.1
17.5°	7503.8	7387.6	7170.3	7214.9	7393.6	7578.2	7337.0	6863.6	6479.4	6431.8
20°	7864.1	7351.9	6860.6	6970.7	7119.6	7685.4	7837.3	7503.8	7283.4	7161.3
22.5°	8277.9	7414.4	6762.3	6815.9	7098.8	7926.6	8647.2	8462.6	8051.6	7876.0
25°	9043.2	7587.1	6839.7	6875.5	7262.6	8263.1	9379.7	9516.7	9272.5	9236.8
27.5°	9790.6	8033.8	7009.5	6929.1	7345.9	8590.6	9823.4	10558.9	10130.1	10046.7
30°	10171.8	8397.1	7262.6	7125.6	7691.3	8790.1	10091.4	11237.8	10862.6	10823.9
32.5°	10755.4	8727.6	7459.1	7283.4	7884.9	9037.3	10591.6	11979.2	11615.9	11422.4
35°	10999.5	9087.9	7890.8	7685.4	8438.7	9382.7	10847.7	12640.2	12527.1	12339.5
37.5°	11470.0	9475.0	8400.0	8388.1	9108.7	9832.3	11309.2	13539.5	13518.7	13194.1
40°	11508.7	9897.8	9204.0	9579.2	10145.0	10615.4	11714.2	13789.6	14129.1	13908.7
42.5°	11568.3	10639.2	10594.6	10904.3	11389.6	11288.4	11729.1	13849.2	14367.3	14236.3
45°	11595.1	11380.7	12009.0	12580.7	12783.2	12169.8	11589.1	13736.0	14492.4	14164.8
47.5°	11380.7	12017.9	13152.4	14257.1	14316.7	12711.7	11529.6	13619.9	14566.8	14349.4
50°	11410.5	12416.9	14141.0	15129.6	14912.2	13191.1	11437.3	13548.4	14528.1	14382.2
52°	11339.0	12425.9	14280.9	15111.7	14959.9	12926.1	11279.4	13274.5	14492.4	14596.6
52.5°	11419.4	12372.3	14135.0	15123.6	14927.1	13057.1	11258.6	13426.4	14513.2	14301.8
55°	11142.5	11735.0	13280.4	13700.3	13670.5	11851.2	10618.4	12923.1	13968.3	13971.3
57.5°	10070.5	10171.8	10415.9	10407.0	10270.0	9317.2	9081.9	11883.9	12452.7	12143.0
60°	8873.5	7447.2	6789.1	6521.1	6369.3	6214.4	8033.8	10871.5	10925.1	10794.1
62.5°	7667.5	5163.3	4287.9	4213.4	4249.1	4814.9	7765.8	10469.5	10147.9	9865.1
65°	6187.6	3763.8	3114.7	3016.4	3364.8	3975.2	6285.9	8027.8	7533.5	7298.3
67.5°	3885.9	2745.4	2105.2	1920.6	2340.5	2736.5	4130.0	5044.2	4490.3	4165.8
70°	2304.7	1533.5	952.9	854.6	961.8	1459.1	2313.7	2516.1	2081.4	1914.6
72.5°	908.2	562.8	265.0	226.3	235.2	512.2	851.6	830.8	628.3	559.8
75°	244.2	169.7	92.3	74.4	62.5	95.3	137.0	89.3	32.8	41.7
77.5°	113.2	101.2	80.4	62.5	47.6	35.7	17.9	6.0	6.0	3.0
80°	98.3	86.4	74.4	62.5	47.6	29.8	14.9	3.0	3.0	3.0
82.5°	92.3	80.4	68.5	56.6	44.7	29.8	14.9	3.0	0.0	0.0
85°	38.7	50.6	56.6	53.6	47.6	29.8	14.9	3.0	0.0	0.0
87.5°	20.8	17.9	14.9	11.9	8.9	6.0	6.0	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

(END OF REPORT)