

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: P529717

Luminaire Tested: **GALN-SA4D-827-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529717
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-SA4D-827-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1200mA 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: 12437 lumens
Efficiency: N/A
Efficacy: 50.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

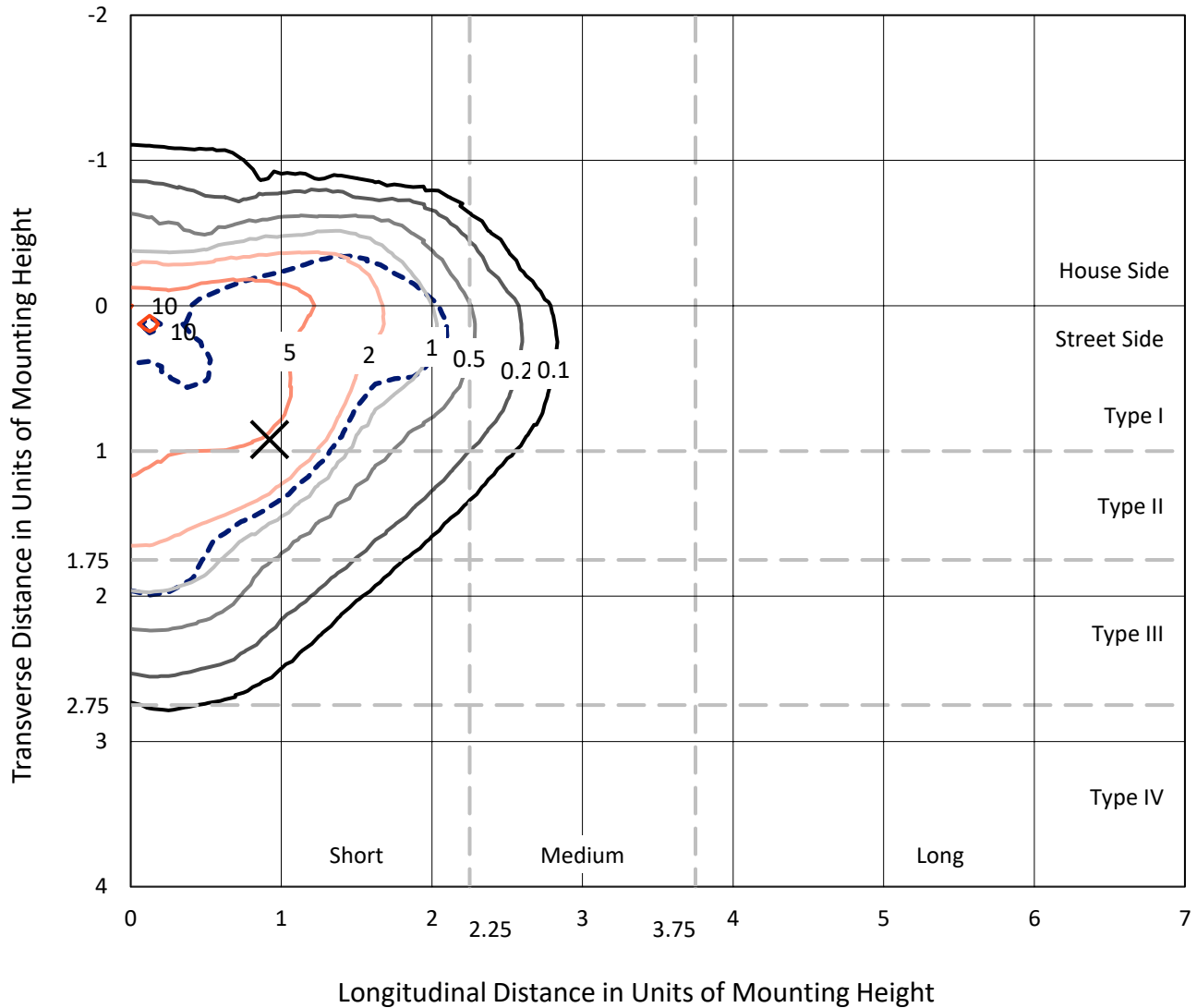
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

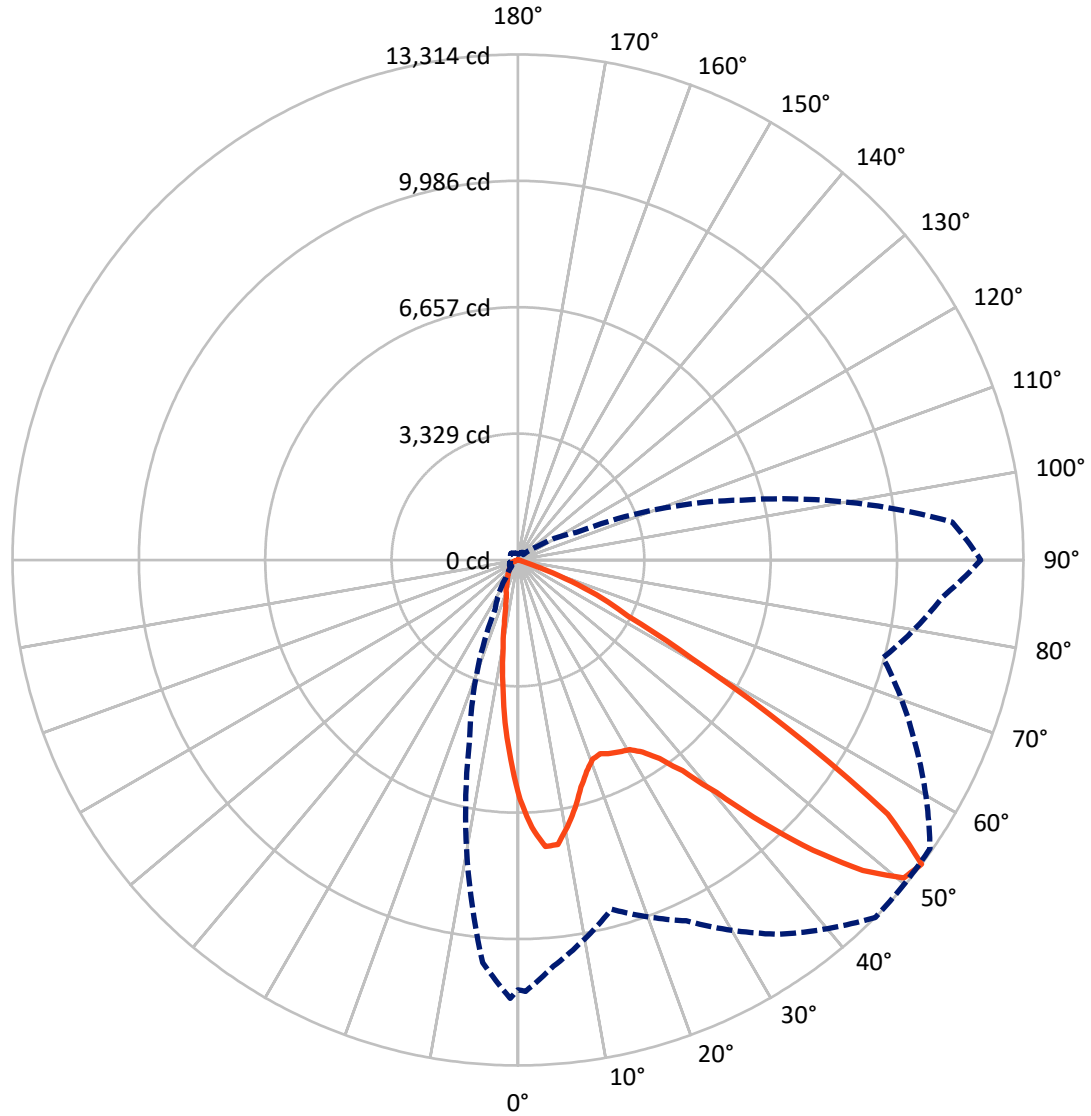
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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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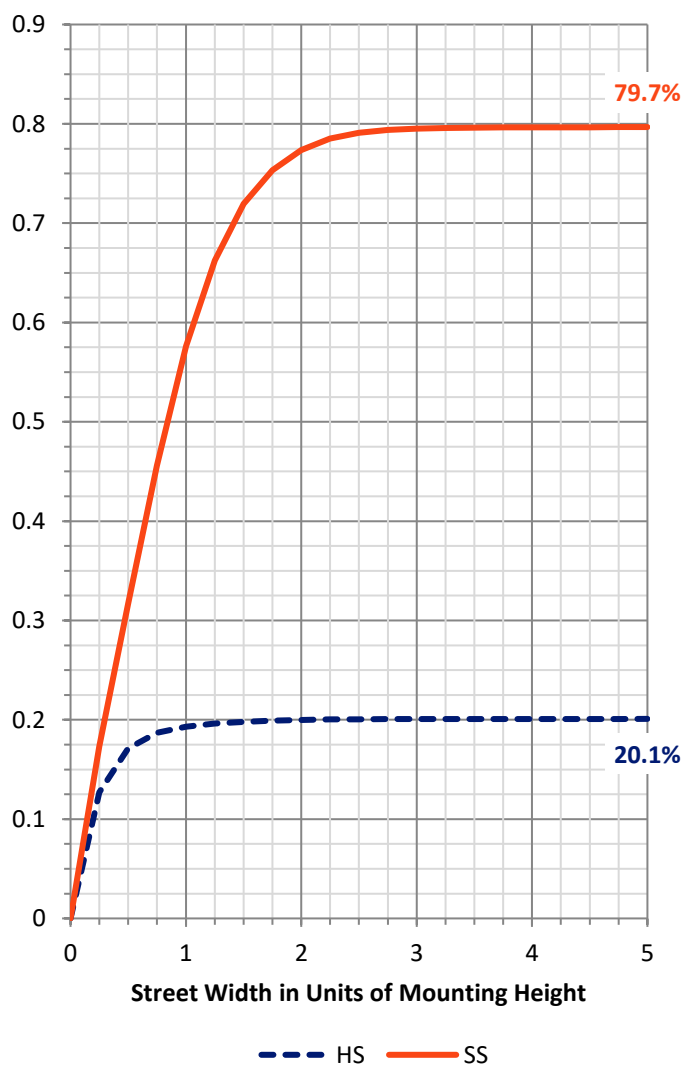
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2524.1	0.0	2524.1
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	9912.9	0.0	9912.9
	% Fixture	79.7	0.0	79.7
Total	Lumens	12437.0	0.0	12437.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.9	3.7
10°-20°	907.4	7.3
20°-30°	1380.9	11.1
30°-40°	2063.8	16.6
40°-50°	2939.1	23.6
50°-60°	3159.4	25.4
60°-70°	1400.0	11.3
70°-80°	113.3	0.9
80°-90°	13.2	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°	12437.0	100.0
0°-180°	12437.0	100.0

Coefficient of Utilization



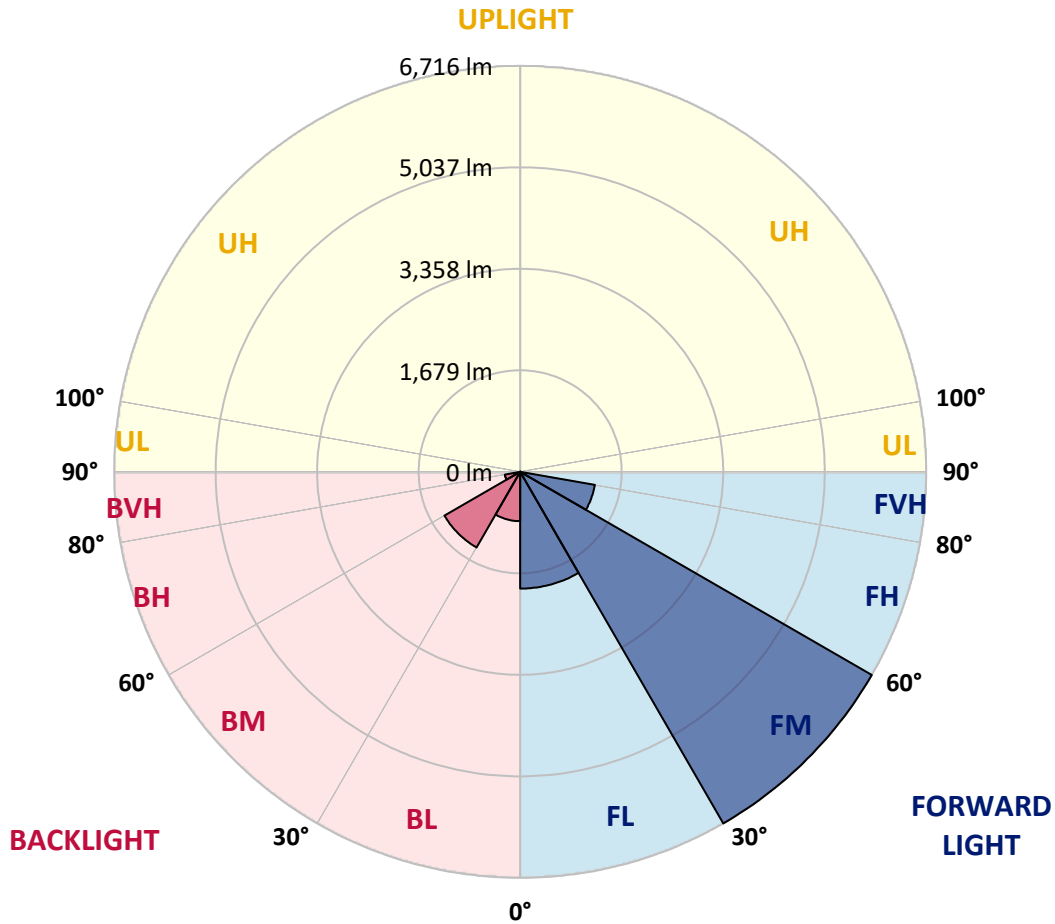
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1931.7	15.5			
FM (30°-60°)	6716.4	54.0			
FH (60°-80°)	1255.0	10.1			G1/1800
FVH (80°-90°)	9.8	0.1			G0/10
BL (0°-30°)	816.4	6.6	B2/1000		
BM (30°-60°)	1446.0	11.6	B2/2500		
BH (60°-80°)	258.3	2.1	B1/500		G1/500
BVH (80°-90°)	3.4	0.0			G0/10
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°	6306.1	6306.1	6306.1	6306.1	6306.1	6306.1	6306.1	6306.1	6306.1	6306.1	6306.1
2.5°	6673.1	6692.6	6800.3	6934.8	7005.7	7167.2	7054.7	7084.0	7022.9	6807.6	6638.8
5°	6470.0	6467.6	6604.6	6937.2	7252.8	7573.2	7583.0	7411.8	7110.9	6780.7	6308.6
7.5°	5858.5	5953.9	6095.8	6626.6	7211.2	7450.9	7565.9	7365.3	6903.0	6430.9	5919.6
10°	5396.2	5445.1	5684.8	6325.7	6753.8	7074.2	7145.2	7030.2	6675.5	6086.0	5513.6
12.5°	5129.5	5154.0	5435.3	5973.5	6426.0	6663.3	6697.5	6751.3	6496.9	5944.1	5256.7
15°	5132.0	5151.6	5530.7	5980.8	6159.4	6095.8	6208.3	6205.8	6315.9	5917.2	5472.0
17.5°	5501.4	5523.4	5865.8	6088.4	6010.2	5860.9	5853.6	5966.1	6198.5	6252.3	5797.3
20°	6137.4	6188.7	6440.7	6428.4	5988.1	5687.3	5604.1	5689.7	6230.3	6536.1	6452.9
22.5°	6993.5	7064.4	7240.6	6903.0	6088.4	5569.9	5542.9	5709.3	6440.7	7169.6	7196.5
25°	7986.6	8106.5	8192.1	7759.1	6445.6	5772.9	5645.7	5931.9	6724.4	7857.0	8143.2
27.5°	8644.6	8769.4	8749.8	8131.0	6685.3	5826.7	5719.1	5985.7	6971.5	8020.9	8637.3
30°	9158.3	9234.2	9371.1	8331.5	6925.0	5978.4	5794.9	6213.2	7052.2	8304.6	9234.2
32.5°	9757.6	9809.0	9818.8	8686.2	7294.4	6169.2	6029.7	6496.9	7409.3	8576.2	9762.5
35°	10361.8	10437.7	10278.7	9124.1	7521.9	6523.8	6421.1	6988.6	7695.5	8857.5	10344.7
37.5°	11017.4	11056.5	10689.6	9305.1	7847.2	7101.1	7044.9	7519.4	8192.1	9366.3	10990.5
40°	11567.8	11604.5	11127.5	9527.7	8189.7	7908.4	8052.7	8532.1	8867.2	9696.5	11313.4
42.5°	11873.5	11959.2	11274.2	9405.4	8877.0	8823.2	9464.1	9632.9	9650.0	9789.4	11602.0
45°	11956.7	11917.6	11032.1	9505.7	9478.8	10327.6	10909.8	11132.4	10427.9	9960.7	11675.4
47.5°	11572.7	11624.0	10674.9	9417.6	10268.9	11467.5	12220.9	12634.3	11007.6	9811.4	11494.4
50°	11262.0	11196.0	10560.0	9354.0	10481.7	12005.6	13167.5	13260.5	11540.9	9994.9	11296.3
52.5°	11323.2	11364.7	10743.4	9522.8	10486.6	12037.4	13314.3	13250.7	11558.0	9953.3	11225.3
55°	11452.8	11269.3	10665.2	9151.0	9784.5	11149.5	11817.3	11719.4	10667.6	9510.6	11051.6
57.5°	9882.4	10166.1	9806.6	8170.1	8030.7	8400.0	8387.8	8688.7	7957.3	8184.8	10061.0
60°	8020.9	8069.8	8204.3	6988.6	5557.6	5430.4	5254.3	5063.5	5354.6	6998.4	9151.0
62.5°	7054.7	6995.9	7475.4	6357.5	3923.6	3285.2	3255.8	3373.2	4131.5	6675.5	8583.5
65°	5127.1	5200.5	5547.8	4933.9	2945.1	2507.3	2463.3	2810.6	3343.9	5349.7	6550.8
67.5°	3131.1	3272.9	3304.7	3043.0	1998.5	1587.5	1523.9	1839.5	2414.3	3461.3	3840.4
70°	1445.7	1616.9	1778.3	1660.9	1157.0	653.1	616.4	773.0	1218.2	1991.2	2037.6
72.5°	437.9	440.3	616.4	643.3	374.3	146.8	129.6	171.2	413.4	658.0	692.3
75°	31.8	34.2	83.2	95.4	70.9	36.7	39.1	46.5	88.1	146.8	110.1
77.5°	2.4	2.4	2.4	12.2	22.0	24.5	31.8	36.7	46.5	53.8	48.9
80°	2.4	0.0	2.4	9.8	17.1	24.5	29.4	34.2	36.7	41.6	36.7
82.5°	0.0	0.0	0.0	7.3	17.1	24.5	26.9	36.7	41.6	48.9	41.6
85°	0.0	0.0	0.0	7.3	17.1	26.9	24.5	12.2	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°	6306.1	6306.1	6306.1	6306.1	6306.1	6306.1	6306.1	6306.1	6306.1	6306.1	6306.1
2.5°	6668.2	6572.8	6355.1	6245.0	5985.7	5949.0	5694.6	5653.0	5567.4	5520.9	5408.4
5°	6100.7	5985.7	5631.0	5332.6	4985.2	4743.1	4557.2	4388.4	4290.5	4200.0	4241.6
7.5°	5638.3	5303.2	4909.4	4410.4	4009.2	3749.9	3466.2	3233.8	3096.8	3003.9	3025.9
10°	5154.0	4936.3	4388.4	3828.2	3343.9	3160.4	2937.8	2759.2	2566.0	2399.7	2321.4
12.5°	5002.3	4679.5	3992.1	3422.1	3055.2	2876.7	2622.3	2416.8	2169.7	1966.7	1895.8
15°	5029.3	4718.6	3884.5	3275.4	2842.4	2534.2	2230.9	1976.5	1705.0	1563.1	1489.7
17.5°	5467.1	4929.0	3955.4	3121.3	2546.4	2118.4	1744.1	1421.2	1218.2	1071.4	1039.6
20°	6005.3	5383.9	4107.1	3008.7	2304.3	1685.4	1274.4	995.6	826.8	802.3	795.0
22.5°	6792.9	6127.6	4432.4	2932.9	2008.3	1313.6	873.3	724.1	677.6	672.7	675.1
25°	7893.7	7059.5	4787.1	2869.3	1785.7	1012.7	714.3	614.0	599.3	592.0	604.2
27.5°	8370.7	7622.2	4975.4	2732.3	1582.6	912.4	704.5	609.1	567.5	555.3	562.6
30°	8960.2	7996.4	5271.4	2497.5	1284.2	751.0	658.0	662.9	643.3	582.2	562.6
32.5°	9743.0	8463.6	5420.6	2331.2	1147.2	621.3	481.9	442.8	494.1	503.9	521.0
35°	10244.4	8938.2	5496.5	2233.3	1076.3	530.8	408.5	371.8	359.6	362.0	371.8
37.5°	11176.4	9579.1	5591.9	2130.6	1022.5	462.3	369.4	335.1	318.0	318.0	327.8
40°	11734.1	10087.9	5721.5	2074.3	968.7	420.7	335.1	305.8	291.1	291.1	296.0
42.5°	11873.5	10339.8	5677.5	2054.8	907.5	411.0	305.8	283.8	266.6	264.2	261.7
45°	12123.0	10723.9	5684.8	2032.7	843.9	374.3	288.6	264.2	239.7	237.3	234.8
47.5°	12397.0	11000.3	5699.5	1947.1	782.8	313.1	300.9	244.6	215.3	210.4	210.4
50°	12162.2	11220.4	5826.7	1861.5	704.5	254.4	296.0	229.9	190.8	183.5	185.9
52.5°	12191.5	11479.7	6095.8	1741.6	606.6	203.0	239.7	217.7	173.7	161.4	163.9
55°	11721.9	11205.7	6132.5	1614.4	474.6	156.6	183.5	190.8	146.8	141.9	141.9
57.5°	10090.3	9488.6	5410.9	1308.7	313.1	129.6	132.1	166.3	127.2	122.3	124.8
60°	8634.9	7617.3	4354.1	863.5	195.7	102.7	95.4	168.8	112.5	110.1	117.4
62.5°	7871.7	6259.7	3302.3	535.7	134.5	78.3	66.0	137.0	97.8	97.8	107.6
65°	5687.3	4204.9	1920.2	281.3	95.4	61.2	48.9	78.3	80.7	83.2	88.1
67.5°	3522.4	2123.2	809.7	137.0	63.6	41.6	31.8	48.9	53.8	53.8	58.7
70°	1739.2	846.4	269.1	78.3	48.9	34.2	22.0	26.9	26.9	24.5	26.9
72.5°	538.1	254.4	68.5	48.9	34.2	22.0	12.2	9.8	4.9	0.0	2.4
75°	61.2	48.9	44.0	34.2	22.0	9.8	2.4	0.0	0.0	0.0	0.0
77.5°	36.7	41.6	41.6	34.2	22.0	7.3	0.0	0.0	0.0	0.0	0.0
80°	29.4	31.8	34.2	31.8	19.6	9.8	0.0	0.0	0.0	0.0	0.0
82.5°	36.7	41.6	46.5	41.6	26.9	12.2	4.9	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	7.3	2.4	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°	6306.1	6306.1	6306.1	6306.1	6306.1	6306.1	6306.1	6306.1	6306.1	6306.1	6306.1
2.5°	5361.9	5308.1	5383.9	5271.4	5269.0	5271.4	5239.6	5210.3	5256.7	5381.5	5393.7
5°	4092.4	4207.4	4244.0	4363.9	4297.9	4200.0	4219.6	4153.5	4315.0	4385.9	4329.7
7.5°	2979.4	2972.1	3219.1	3233.8	3265.6	3268.0	3263.1	3133.5	3001.4	3030.8	3118.8
10°	2311.6	2186.8	2306.7	2294.5	2372.8	2350.7	2382.5	2243.1	2289.6	2289.6	2345.8
12.5°	1883.5	1751.4	1729.4	1697.6	1729.4	1741.6	1753.9	1727.0	1805.2	1841.9	1881.1
15°	1438.3	1364.9	1345.4	1284.2	1294.0	1328.3	1357.6	1369.8	1345.4	1401.6	1406.5
17.5°	1044.5	1042.1	1054.3	1051.8	1042.1	1034.7	1032.3	1000.5	990.7	995.6	1015.1
20°	792.5	812.1	853.7	895.3	917.3	890.4	853.7	799.9	777.9	782.8	785.2
22.5°	677.6	706.9	763.2	809.7	831.7	782.8	716.7	670.2	660.5	658.0	655.6
25°	614.0	648.2	689.8	704.5	702.0	672.7	623.8	604.2	599.3	594.4	572.4
27.5°	579.7	592.0	599.3	616.4	623.8	604.2	592.0	562.6	557.7	557.7	543.0
30°	560.2	552.8	562.6	550.4	560.2	545.5	547.9	547.9	535.7	540.6	540.6
32.5°	521.0	523.5	523.5	499.0	506.4	489.2	506.4	521.0	523.5	525.9	545.5
35°	381.6	425.6	447.6	447.6	455.0	442.8	440.3	423.2	401.2	379.2	369.4
37.5°	335.1	352.2	381.6	398.7	411.0	401.2	379.2	352.2	340.0	330.2	320.4
40°	298.4	313.1	332.7	352.2	376.7	364.5	330.2	318.0	303.3	303.3	293.5
42.5°	269.1	276.4	288.6	318.0	344.9	320.4	296.0	286.2	278.9	276.4	274.0
45°	242.2	244.6	256.8	281.3	313.1	288.6	264.2	252.0	254.4	256.8	254.4
47.5°	217.7	222.6	229.9	259.3	278.9	266.6	239.7	232.4	232.4	232.4	234.8
50°	188.4	200.6	215.3	239.7	254.4	247.1	225.0	215.3	210.4	210.4	212.8
52.5°	168.8	178.6	198.1	227.5	247.1	234.8	212.8	198.1	188.4	185.9	190.8
55°	146.8	163.9	195.7	217.7	244.6	232.4	207.9	190.8	173.7	171.2	171.2
57.5°	132.1	159.0	188.4	215.3	237.3	227.5	207.9	185.9	163.9	161.4	161.4
60°	124.8	154.1	183.5	207.9	237.3	222.6	205.5	181.0	156.6	156.6	154.1
62.5°	117.4	144.3	173.7	198.1	227.5	215.3	198.1	173.7	149.2	149.2	144.3
65°	97.8	124.8	144.3	166.3	198.1	185.9	168.8	151.7	132.1	127.2	129.6
67.5°	68.5	85.6	105.2	127.2	146.8	141.9	134.5	122.3	105.2	102.7	100.3
70°	34.2	46.5	63.6	85.6	102.7	97.8	93.0	83.2	73.4	70.9	70.9
72.5°	4.9	14.7	26.9	39.1	53.8	56.3	53.8	51.4	48.9	46.5	48.9
75°	0.0	0.0	0.0	9.8	22.0	26.9	31.8	36.7	36.7	31.8	39.1
77.5°	0.0	0.0	0.0	0.0	2.4	12.2	24.5	31.8	39.1	34.2	46.5
80°	0.0	0.0	0.0	0.0	2.4	14.7	24.5	34.2	39.1	34.2	48.9
82.5°	0.0	0.0	0.0	0.0	2.4	17.1	24.5	31.8	36.7	34.2	44.0
85°	0.0	0.0	0.0	0.0	7.3	14.7	9.8	4.9	2.4	2.4	7.3
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-SA4D-827-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6306.1	6306.1	6306.1	6306.1	6306.1	6306.1	6306.1	6306.1	6306.1	6306.1
2.5°	5462.2	5635.9	5821.8	5892.7	6112.9	6279.2	6391.8	6633.9	6670.6	6673.1
5°	4388.4	4476.4	4794.4	4943.6	5271.4	5525.8	5797.3	6188.7	6450.5	6470.0
7.5°	3118.8	3363.4	3498.0	3886.9	4290.5	4689.2	5092.9	5547.8	5851.2	5858.5
10°	2509.7	2668.7	2908.5	3199.5	3539.6	3945.6	4483.8	5012.1	5320.3	5396.2
12.5°	2020.5	2299.4	2573.3	2874.2	3133.5	3439.3	4019.0	4723.5	4977.9	5129.5
15°	1555.7	1810.1	2133.0	2485.3	2778.8	3187.3	3847.8	4652.5	5080.6	5132.0
17.5°	1147.2	1374.7	1673.2	2005.8	2446.1	3025.9	3877.1	5012.1	5415.7	5501.4
20°	824.3	956.4	1191.3	1577.8	2137.9	2837.5	3906.5	5376.6	5990.6	6137.4
22.5°	653.1	706.9	861.0	1203.5	1793.0	2639.4	4114.4	6073.8	6780.7	6993.5
25°	567.5	596.9	670.2	949.1	1575.3	2619.8	4447.1	6910.3	7832.5	7986.6
27.5°	547.9	552.8	616.4	870.8	1457.9	2490.2	4574.3	7504.7	8488.1	8644.6
30°	577.3	655.6	660.5	736.3	1240.2	2233.3	4640.3	8079.6	9043.4	9158.3
32.5°	499.0	474.6	491.7	569.9	1091.0	2084.1	4765.1	8581.0	9676.9	9757.6
35°	347.4	364.5	403.6	494.1	954.0	1927.6	4796.9	9133.9	10278.7	10361.8
37.5°	320.4	330.2	362.0	420.7	839.0	1839.5	4752.8	9537.5	10902.4	11017.4
40°	298.4	310.7	327.8	381.6	753.4	1741.6	4691.7	9902.0	11284.0	11567.8
42.5°	281.3	291.1	305.8	364.5	680.0	1643.8	4606.1	10415.6	11626.5	11873.5
45°	261.7	276.4	293.5	354.7	638.4	1577.8	4542.5	10383.8	11824.6	11956.7
47.5°	242.2	266.6	286.2	330.2	626.2	1546.0	4569.4	10264.0	11663.2	11572.7
50°	222.6	254.4	288.6	274.0	596.9	1482.4	4601.2	10427.9	11279.1	11262.0
52.5°	205.5	242.2	269.1	225.0	530.8	1421.2	4909.4	10643.1	11550.7	11323.2
55°	181.0	217.7	215.3	181.0	430.5	1374.7	5151.6	10648.0	11367.2	11452.8
57.5°	163.9	193.2	168.8	151.7	318.0	1149.7	4757.7	8928.4	9730.7	9882.4
60°	151.7	188.4	127.2	119.9	207.9	829.2	4153.5	6915.2	7734.7	8020.9
62.5°	139.4	178.6	100.3	97.8	144.3	589.5	3414.8	5787.6	6665.7	7054.7
65°	122.3	127.2	80.7	75.8	102.7	318.0	2079.2	3984.8	4982.8	5127.1
67.5°	100.3	97.8	66.0	61.2	68.5	154.1	917.3	1996.0	2888.9	3131.1
70°	80.7	80.7	56.3	48.9	48.9	70.9	239.7	795.0	1306.2	1445.7
72.5°	58.7	61.2	44.0	39.1	36.7	34.2	39.1	159.0	342.5	437.9
75°	51.4	53.8	44.0	34.2	26.9	22.0	17.1	14.7	19.6	31.8
77.5°	56.3	56.3	46.5	31.8	24.5	17.1	9.8	4.9	4.9	2.4
80°	70.9	73.4	61.2	41.6	29.4	19.6	12.2	4.9	2.4	2.4
82.5°	75.8	83.2	68.5	51.4	36.7	22.0	12.2	2.4	0.0	0.0
85°	19.6	31.8	53.8	46.5	36.7	22.0	12.2	2.4	0.0	0.0
87.5°	0.0	2.4	7.3	7.3	9.8	9.8	7.3	2.4	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)