

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: P532759

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532759
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-SA8A-827-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA 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: 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

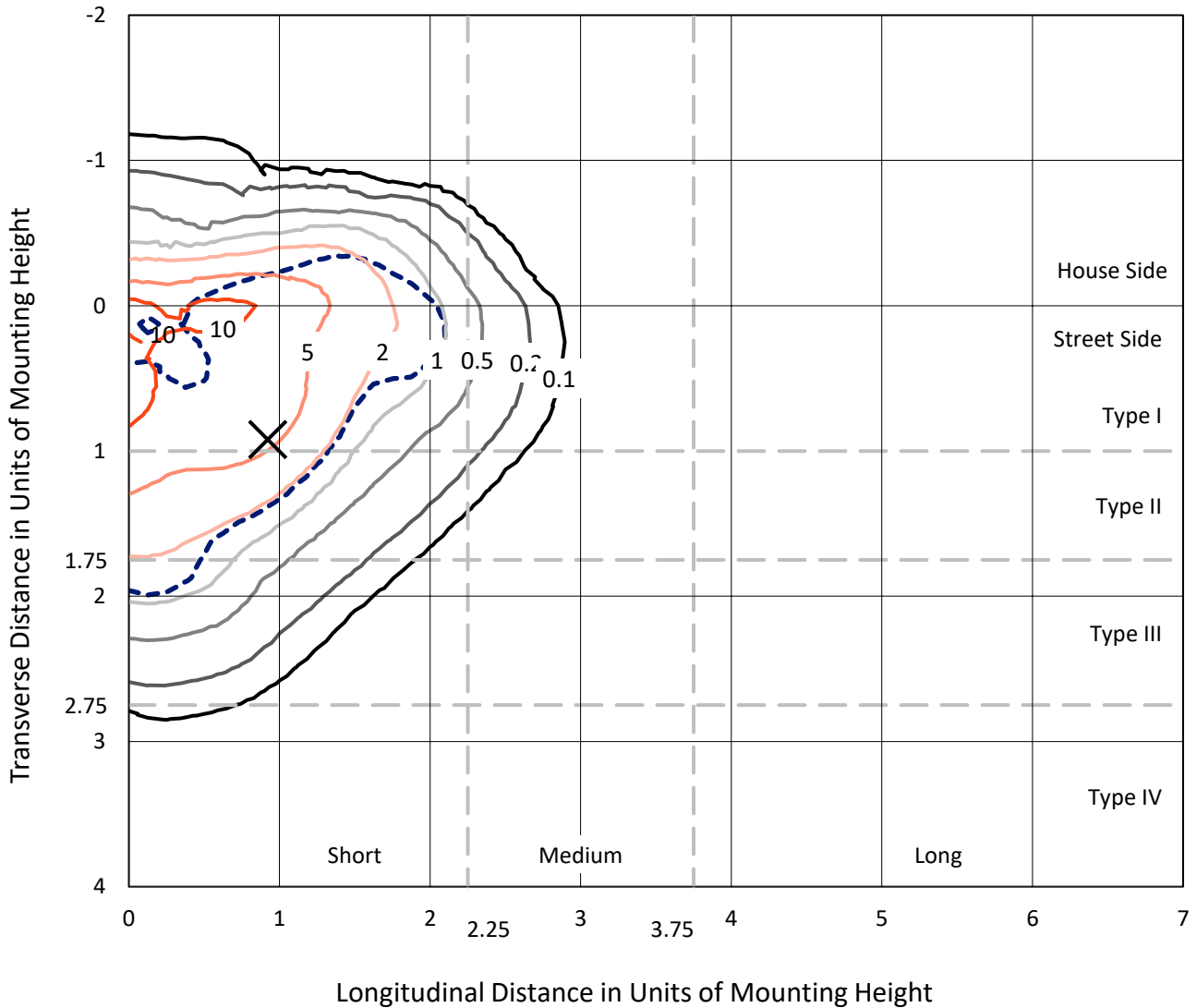
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

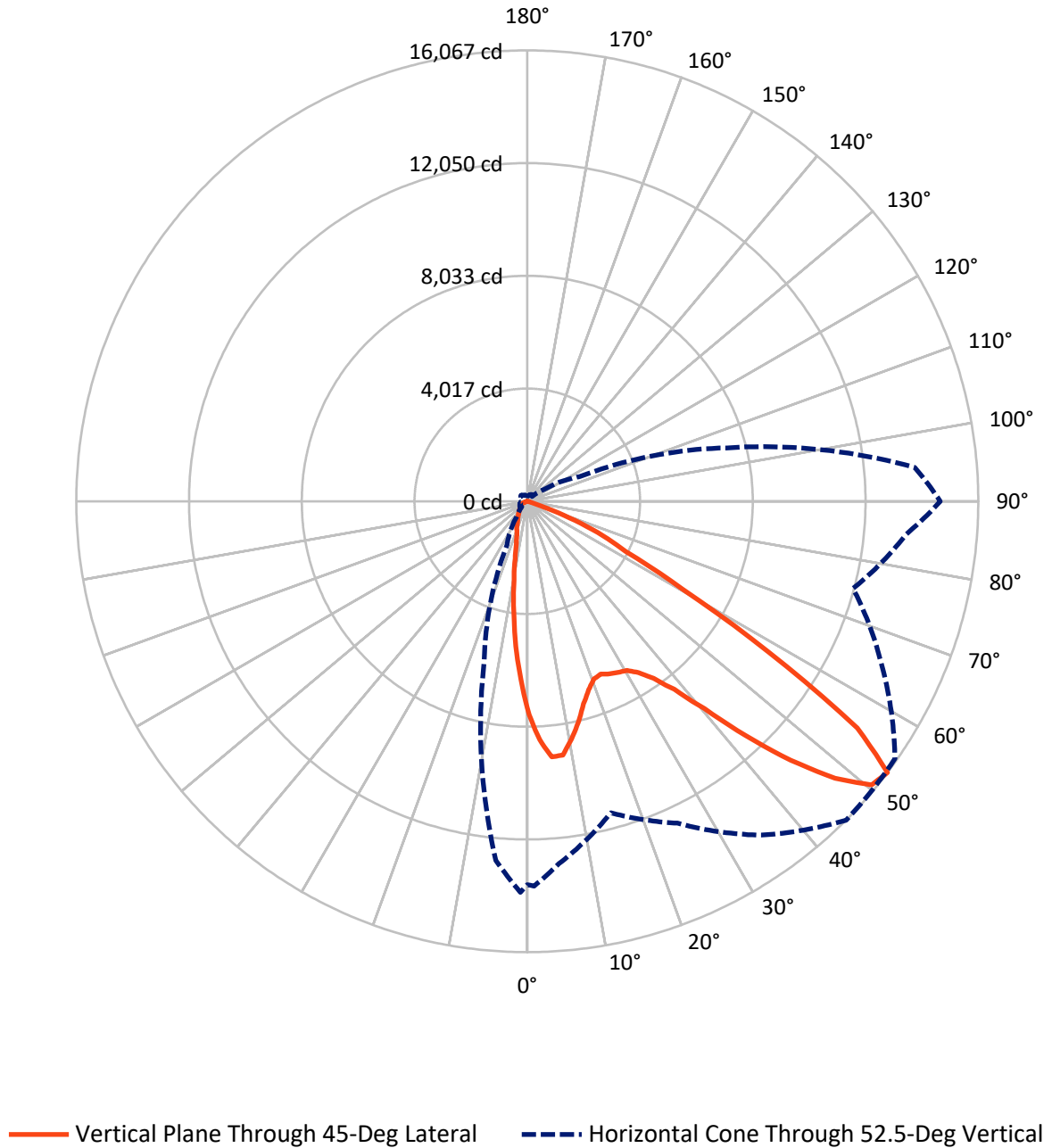
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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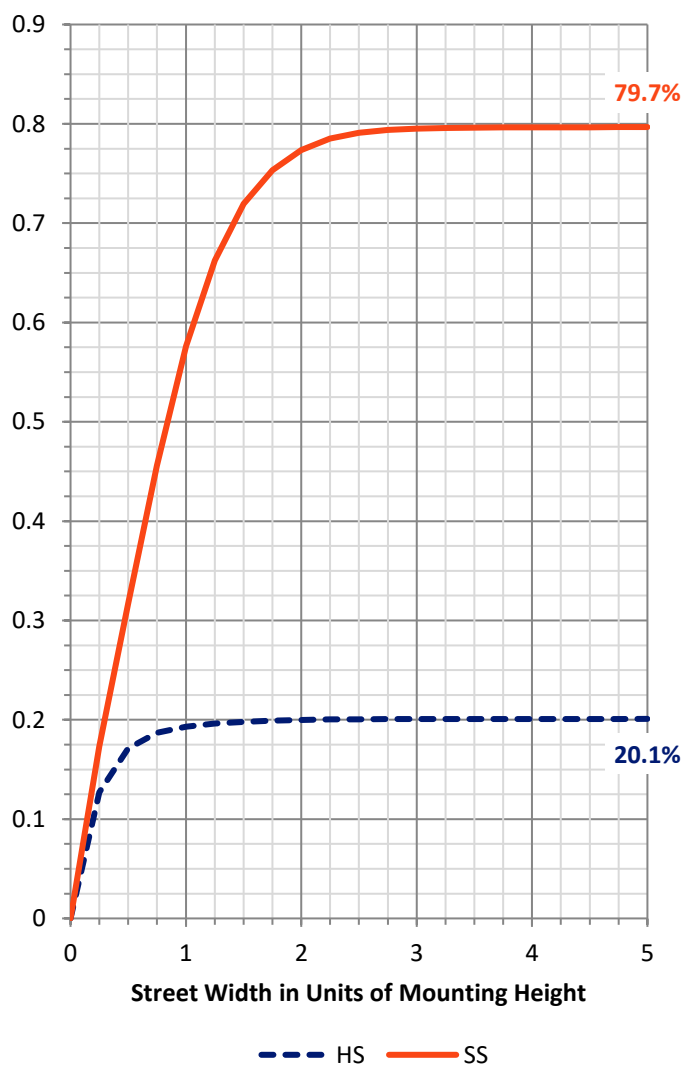
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3045.9	0.0	3045.9
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	11962.1	0.0	11962.1
	% Fixture	79.7	0.0	79.7
Total	Lumens	15008.0	0.0	15008.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.0	3.7
10°-20°	1094.9	7.3
20°-30°	1666.3	11.1
30°-40°	2490.5	16.6
40°-50°	3546.7	23.6
50°-60°	3812.6	25.4
60°-70°	1689.4	11.3
70°-80°	136.7	0.9
80°-90°	15.9	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°	15008.0	100.0
0°-180°	15008.0	100.0

Coefficient of Utilization

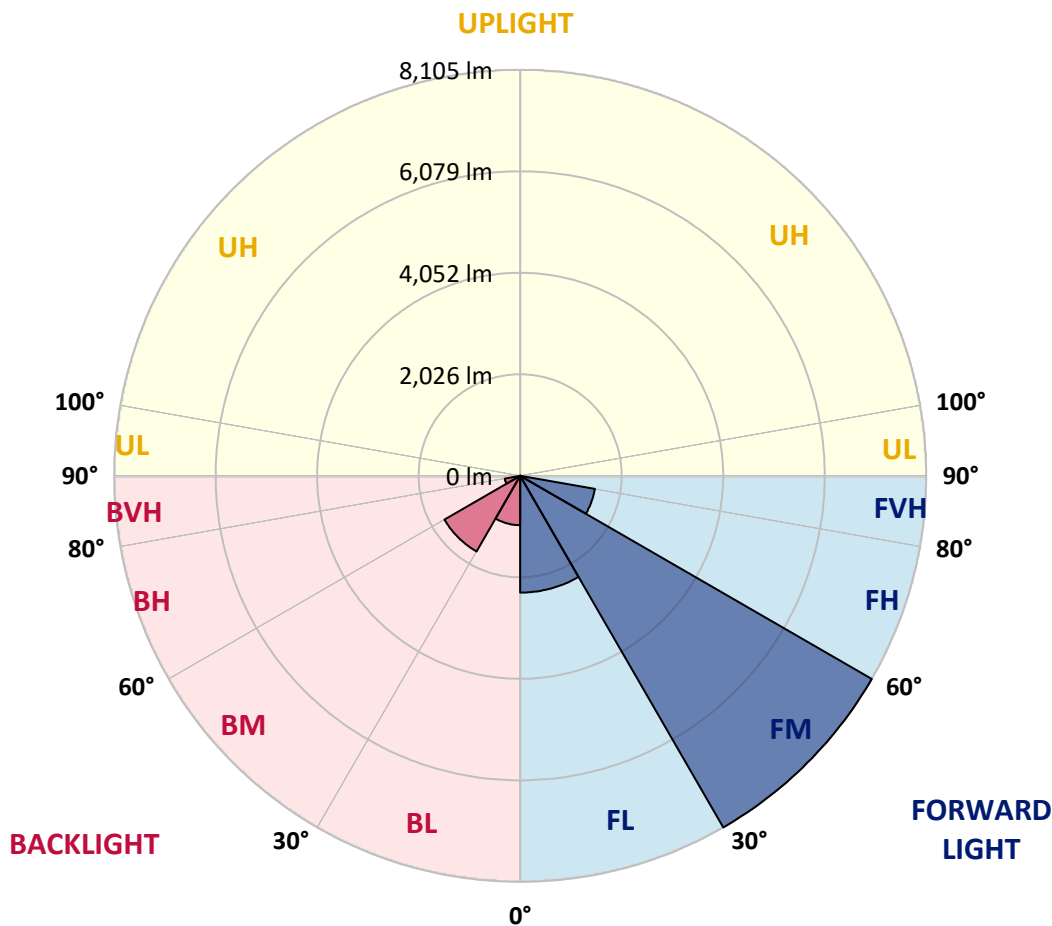


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2331.0	15.5			
FM (30°-60°)	8104.8	54.0			
FH (60°-80°)	1514.5	10.1			G1/1800
FVH (80°-90°)	11.8	0.1			G1/100
BL (0°-30°)	985.2	6.6	B2/1000		
BM (30°-60°)	1745.0	11.6	B2/2500		
BH (60°-80°)	311.6	2.1	B1/500		G1/500
BVH (80°-90°)	4.1	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°	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8
2.5°	8052.5	8076.1	8206.0	8368.4	8454.0	8648.8	8513.0	8548.4	8474.6	8214.9	8011.2
5°	7807.5	7804.6	7969.9	8371.3	8752.1	9138.8	9150.6	8944.0	8580.9	8182.4	7612.7
7.5°	7069.6	7184.7	7355.9	7996.4	8701.9	8991.2	9129.9	8887.9	8330.0	7760.3	7143.4
10°	6511.7	6570.7	6860.0	7633.4	8149.9	8536.6	8622.2	8483.5	8055.5	7344.1	6653.4
12.5°	6189.9	6219.5	6558.9	7208.3	7754.4	8040.7	8082.0	8147.0	7840.0	7172.9	6343.4
15°	6192.9	6216.5	6674.0	7217.2	7432.6	7355.9	7491.7	7488.7	7621.6	7140.4	6603.2
17.5°	6638.6	6665.2	7078.4	7347.0	7252.6	7072.5	7063.7	7199.5	7479.9	7544.8	6995.8
20°	7406.1	7468.1	7772.1	7757.3	7226.0	6862.9	6762.6	6865.9	7518.2	7887.2	7786.9
22.5°	8439.2	8524.8	8737.3	8330.0	7347.0	6721.3	6688.8	6889.5	7772.1	8651.7	8684.2
25°	9637.6	9782.3	9885.6	9363.1	7778.0	6966.3	6812.8	7158.1	8114.5	9481.2	9826.6
27.5°	10431.7	10582.2	10558.6	9811.8	8067.3	7031.2	6901.3	7223.1	8412.6	9679.0	10422.8
30°	11051.6	11143.1	11308.4	10053.8	8356.6	7214.2	6992.8	7497.6	8510.1	10021.4	11143.1
32.5°	11774.8	11836.7	11848.5	10481.9	8802.3	7444.5	7276.2	7840.0	8941.0	10349.0	11780.7
35°	12503.8	12595.4	12403.5	11010.2	9076.8	7872.5	7748.5	8433.3	9286.4	10688.5	12483.2
37.5°	13294.9	13342.2	12899.4	11228.7	9469.4	8569.1	8501.2	9073.8	9885.6	11302.5	13262.5
40°	13959.1	14003.4	13427.8	11497.3	9882.6	9543.2	9717.3	10295.9	10700.3	11701.0	13652.1
42.5°	14328.1	14431.4	13604.9	11349.7	10712.1	10647.2	11420.5	11624.2	11644.9	11813.1	14000.4
45°	14428.4	14381.2	13312.6	11470.7	11438.2	12462.5	13165.1	13433.7	12583.5	12019.8	14089.0
47.5°	13965.0	14027.0	12881.7	11364.4	12391.7	13838.1	14747.2	15246.1	13283.1	11839.7	13870.5
50°	13590.1	13510.4	12742.9	11287.7	12648.5	14487.5	15889.6	16001.7	13926.6	12061.1	13631.4
52.5°	13663.9	13714.1	12964.3	11491.4	12654.4	14525.8	16066.7	15989.9	13947.3	12010.9	13545.8
55°	13820.4	13599.0	12869.9	11042.7	11807.2	13454.3	14260.2	14142.1	12872.8	11476.6	13336.3
57.5°	11925.3	12267.7	11833.8	9859.0	9690.8	10136.5	10121.7	10484.8	9602.2	9876.7	12140.8
60°	9679.0	9738.0	9900.4	8433.3	6706.5	6553.0	6340.5	6110.2	6461.5	8445.1	11042.7
62.5°	8513.0	8442.2	9020.7	7671.7	4734.7	3964.3	3928.9	4070.5	4985.6	8055.5	10357.9
65°	6187.0	6275.5	6694.7	5953.8	3554.0	3025.6	2972.5	3391.6	4035.1	6455.6	7904.9
67.5°	3778.3	3949.5	3987.9	3672.0	2411.6	1915.7	1839.0	2219.8	2913.4	4176.8	4634.3
70°	1744.5	1951.1	2146.0	2004.3	1396.2	788.1	743.9	932.8	1470.0	2402.8	2458.9
72.5°	528.4	531.3	743.9	776.3	451.6	177.1	156.4	206.6	498.9	794.0	835.4
75°	38.4	41.3	100.4	115.1	85.6	44.3	47.2	56.1	106.3	177.1	132.8
77.5°	3.0	3.0	3.0	14.8	26.6	29.5	38.4	44.3	56.1	64.9	59.0
80°	3.0	0.0	3.0	11.8	20.7	29.5	35.4	41.3	44.3	50.2	44.3
82.5°	0.0	0.0	0.0	8.9	20.7	29.5	32.5	44.3	50.2	59.0	50.2
85°	0.0	0.0	0.0	8.9	20.7	32.5	29.5	14.8	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°	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8
2.5°	8046.6	7931.5	7668.8	7536.0	7223.1	7178.8	6871.8	6821.6	6718.3	6662.2	6526.4
5°	7361.8	7223.1	6795.1	6434.9	6015.8	5723.6	5499.2	5295.5	5177.5	5068.2	5118.4
7.5°	6803.9	6399.5	5924.3	5322.1	4838.0	4525.1	4182.7	3902.3	3737.0	3624.8	3651.4
10°	6219.5	5956.7	5295.5	4619.6	4035.1	3813.7	3545.1	3329.6	3096.4	2895.7	2801.3
12.5°	6036.4	5646.8	4817.3	4129.6	3686.8	3471.3	3164.3	2916.4	2618.3	2373.3	2287.6
15°	6068.9	5694.0	4687.5	3952.5	3430.0	3058.1	2692.0	2385.1	2057.4	1886.2	1797.6
17.5°	6597.3	5947.9	4773.1	3766.5	3072.8	2556.3	2104.6	1715.0	1470.0	1292.9	1254.5
20°	7246.7	6496.9	4956.1	3630.7	2780.6	2033.8	1537.9	1201.4	997.7	968.2	959.3
22.5°	8197.2	7394.3	5348.7	3539.2	2423.4	1585.1	1053.8	873.7	817.7	811.7	814.7
25°	9525.5	8518.9	5776.7	3462.5	2154.8	1222.0	861.9	740.9	723.2	714.3	729.1
27.5°	10101.1	9197.8	6004.0	3297.2	1909.8	1101.0	850.1	735.0	684.8	670.1	678.9
30°	10812.5	9649.5	6361.1	3013.8	1549.7	906.2	794.0	799.9	776.3	702.5	678.9
32.5°	11757.0	10213.2	6541.2	2813.1	1384.4	749.8	581.5	534.3	596.3	608.1	628.7
35°	12362.2	10785.9	6632.7	2695.0	1298.8	640.5	493.0	448.7	433.9	436.9	448.7
37.5°	13486.8	11559.3	6747.8	2571.0	1233.9	557.9	445.7	404.4	383.7	383.7	395.5
40°	14159.8	12173.2	6904.3	2503.1	1168.9	507.7	404.4	369.0	351.3	351.3	357.2
42.5°	14328.1	12477.3	6851.1	2479.5	1095.1	495.9	369.0	342.4	321.7	318.8	315.8
45°	14629.1	12940.7	6860.0	2453.0	1018.4	451.6	348.3	318.8	289.3	286.3	283.4
47.5°	14959.7	13274.3	6877.7	2349.6	944.6	377.8	363.1	295.2	259.8	253.9	253.9
50°	14676.4	13539.9	7031.2	2246.3	850.1	307.0	357.2	277.5	230.2	221.4	224.3
52.5°	14711.8	13852.8	7355.9	2101.7	732.0	245.0	289.3	262.7	209.6	194.8	197.8
55°	14145.1	13522.2	7400.2	1948.2	572.7	188.9	221.4	230.2	177.1	171.2	171.2
57.5°	12176.2	11450.1	6529.4	1579.2	377.8	156.4	159.4	200.7	153.5	147.6	150.5
60°	10419.9	9191.9	5254.2	1042.0	236.1	124.0	115.1	203.7	135.8	132.8	141.7
62.5°	9498.9	7553.7	3984.9	646.4	162.3	94.5	79.7	165.3	118.1	118.1	129.9
65°	6862.9	5074.2	2317.2	339.5	115.1	73.8	59.0	94.5	97.4	100.4	106.3
67.5°	4250.6	2562.2	977.0	165.3	76.7	50.2	38.4	59.0	64.9	64.9	70.8
70°	2098.7	1021.3	324.7	94.5	59.0	41.3	26.6	32.5	32.5	29.5	32.5
72.5°	649.4	307.0	82.7	59.0	41.3	26.6	14.8	11.8	5.9	0.0	3.0
75°	73.8	59.0	53.1	41.3	26.6	11.8	3.0	0.0	0.0	0.0	0.0
77.5°	44.3	50.2	50.2	41.3	26.6	8.9	0.0	0.0	0.0	0.0	0.0
80°	35.4	38.4	41.3	38.4	23.6	11.8	0.0	0.0	0.0	0.0	0.0
82.5°	44.3	50.2	56.1	50.2	32.5	14.8	5.9	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	8.9	3.0	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°	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8
2.5°	6470.4	6405.4	6496.9	6361.1	6358.2	6361.1	6322.8	6287.3	6343.4	6494.0	6508.7
5°	4938.4	5077.1	5121.4	5266.0	5186.3	5068.2	5091.9	5012.2	5207.0	5292.6	5224.7
7.5°	3595.3	3586.4	3884.6	3902.3	3940.7	3943.6	3937.7	3781.3	3621.9	3657.3	3763.6
10°	2789.5	2638.9	2783.6	2768.8	2863.3	2836.7	2875.1	2706.8	2762.9	2762.9	2830.8
12.5°	2272.9	2113.5	2086.9	2048.6	2086.9	2101.7	2116.4	2084.0	2178.4	2222.7	2269.9
15°	1735.7	1647.1	1623.5	1549.7	1561.5	1602.8	1638.3	1653.0	1623.5	1691.4	1697.3
17.5°	1260.4	1257.5	1272.2	1269.3	1257.5	1248.6	1245.7	1207.3	1195.5	1201.4	1225.0
20°	956.4	980.0	1030.2	1080.4	1106.9	1074.5	1030.2	965.2	938.7	944.6	947.5
22.5°	817.7	853.1	921.0	977.0	1003.6	944.6	864.9	808.8	797.0	794.0	791.1
25°	740.9	782.2	832.4	850.1	847.2	811.7	752.7	729.1	723.2	717.3	690.7
27.5°	699.6	714.3	723.2	743.9	752.7	729.1	714.3	678.9	673.0	673.0	655.3
30°	676.0	667.1	678.9	664.2	676.0	658.3	661.2	661.2	646.4	652.3	652.3
32.5°	628.7	631.7	631.7	602.2	611.0	590.4	611.0	628.7	631.7	634.6	658.3
35°	460.5	513.6	540.2	540.2	549.0	534.3	531.3	510.7	484.1	457.5	445.7
37.5°	404.4	425.1	460.5	481.1	495.9	484.1	457.5	425.1	410.3	398.5	386.7
40°	360.1	377.8	401.4	425.1	454.6	439.8	398.5	383.7	366.0	366.0	354.2
42.5°	324.7	333.6	348.3	383.7	416.2	386.7	357.2	345.4	336.5	333.6	330.6
45°	292.2	295.2	309.9	339.5	377.8	348.3	318.8	304.0	307.0	309.9	307.0
47.5°	262.7	268.6	277.5	312.9	336.5	321.7	289.3	280.4	280.4	280.4	283.4
50°	227.3	242.0	259.8	289.3	307.0	298.1	271.6	259.8	253.9	253.9	256.8
52.5°	203.7	215.5	239.1	274.5	298.1	283.4	256.8	239.1	227.3	224.3	230.2
55°	177.1	197.8	236.1	262.7	295.2	280.4	250.9	230.2	209.6	206.6	206.6
57.5°	159.4	191.9	227.3	259.8	286.3	274.5	250.9	224.3	197.8	194.8	194.8
60°	150.5	186.0	221.4	250.9	286.3	268.6	248.0	218.4	188.9	188.9	186.0
62.5°	141.7	174.2	209.6	239.1	274.5	259.8	239.1	209.6	180.1	180.1	174.2
65°	118.1	150.5	174.2	200.7	239.1	224.3	203.7	183.0	159.4	153.5	156.4
67.5°	82.7	103.3	126.9	153.5	177.1	171.2	162.3	147.6	126.9	124.0	121.0
70°	41.3	56.1	76.7	103.3	124.0	118.1	112.2	100.4	88.6	85.6	85.6
72.5°	5.9	17.7	32.5	47.2	64.9	67.9	64.9	62.0	59.0	56.1	59.0
75°	0.0	0.0	0.0	11.8	26.6	32.5	38.4	44.3	44.3	38.4	47.2
77.5°	0.0	0.0	0.0	0.0	3.0	14.8	29.5	38.4	47.2	41.3	56.1
80°	0.0	0.0	0.0	0.0	3.0	17.7	29.5	41.3	47.2	41.3	59.0
82.5°	0.0	0.0	0.0	0.0	3.0	20.7	29.5	38.4	44.3	41.3	53.1
85°	0.0	0.0	0.0	0.0	8.9	17.7	11.8	5.9	3.0	3.0	8.9
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-SA8A-827-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8	7609.8
2.5°	6591.4	6801.0	7025.3	7110.9	7376.6	7577.3	7713.1	8005.3	8049.6	8052.5
5°	5295.5	5401.8	5785.5	5965.6	6361.1	6668.1	6995.8	7468.1	7783.9	7807.5
7.5°	3763.6	4058.7	4221.1	4690.4	5177.5	5658.6	6145.7	6694.7	7060.7	7069.6
10°	3028.6	3220.4	3509.7	3861.0	4271.3	4761.3	5410.7	6048.2	6420.2	6511.7
12.5°	2438.2	2774.7	3105.3	3468.4	3781.3	4150.2	4849.8	5699.9	6006.9	6189.9
15°	1877.3	2184.3	2574.0	2999.0	3353.3	3846.2	4643.2	5614.3	6130.9	6192.9
17.5°	1384.4	1658.9	2019.0	2420.5	2951.8	3651.4	4678.6	6048.2	6535.3	6638.6
20°	994.8	1154.2	1437.5	1903.9	2579.9	3424.1	4714.0	6488.1	7229.0	7406.1
22.5°	788.1	853.1	1039.0	1452.3	2163.7	3185.0	4964.9	7329.3	8182.4	8439.2
25°	684.8	720.2	808.8	1145.3	1901.0	3161.4	5366.4	8338.8	9451.7	9637.6
27.5°	661.2	667.1	743.9	1050.8	1759.3	3004.9	5519.9	9056.1	10242.8	10431.7
30°	696.6	791.1	797.0	888.5	1496.6	2695.0	5599.6	9749.8	10912.8	11051.6
32.5°	602.2	572.7	593.3	687.8	1316.5	2514.9	5750.1	10354.9	11677.3	11774.8
35°	419.2	439.8	487.0	596.3	1151.2	2326.0	5788.5	11022.0	12403.5	12503.8
37.5°	386.7	398.5	436.9	507.7	1012.5	2219.8	5735.4	11509.1	13156.2	13294.9
40°	360.1	374.9	395.5	460.5	909.2	2101.7	5661.6	11948.9	13616.7	13959.1
42.5°	339.5	351.3	369.0	439.8	820.6	1983.6	5558.2	12568.8	14029.9	14328.1
45°	315.8	333.6	354.2	428.0	770.4	1903.9	5481.5	12530.4	14269.0	14428.4
47.5°	292.2	321.7	345.4	398.5	755.7	1865.5	5514.0	12385.8	14074.2	13965.0
50°	268.6	307.0	348.3	330.6	720.2	1788.8	5552.3	12583.5	13610.8	13590.1
52.5°	248.0	292.2	324.7	271.6	640.5	1715.0	5924.3	12843.3	13938.4	13663.9
55°	218.4	262.7	259.8	218.4	519.5	1658.9	6216.5	12849.2	13717.0	13820.4
57.5°	197.8	233.2	203.7	183.0	383.7	1387.3	5741.3	10774.1	11742.3	11925.3
60°	183.0	227.3	153.5	144.6	250.9	1000.7	5012.2	8344.8	9333.6	9679.0
62.5°	168.3	215.5	121.0	118.1	174.2	711.4	4120.7	6984.0	8043.7	8513.0
65°	147.6	153.5	97.4	91.5	124.0	383.7	2509.0	4808.5	6012.8	6187.0
67.5°	121.0	118.1	79.7	73.8	82.7	186.0	1106.9	2408.7	3486.1	3778.3
70°	97.4	97.4	67.9	59.0	59.0	85.6	289.3	959.3	1576.3	1744.5
72.5°	70.8	73.8	53.1	47.2	44.3	41.3	47.2	191.9	413.3	528.4
75°	62.0	64.9	53.1	41.3	32.5	26.6	20.7	17.7	23.6	38.4
77.5°	67.9	67.9	56.1	38.4	29.5	20.7	11.8	5.9	5.9	3.0
80°	85.6	88.6	73.8	50.2	35.4	23.6	14.8	5.9	3.0	3.0
82.5°	91.5	100.4	82.7	62.0	44.3	26.6	14.8	3.0	0.0	0.0
85°	23.6	38.4	64.9	56.1	44.3	26.6	14.8	3.0	0.0	0.0
87.5°	0.0	3.0	8.9	8.9	11.8	11.8	8.9	3.0	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)