

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: P533929

Luminaire Tested: **GALN-SA9B-827-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533929
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-SA9B-827-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA 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: 20964 lumens
Efficiency: N/A
Efficacy: 57.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

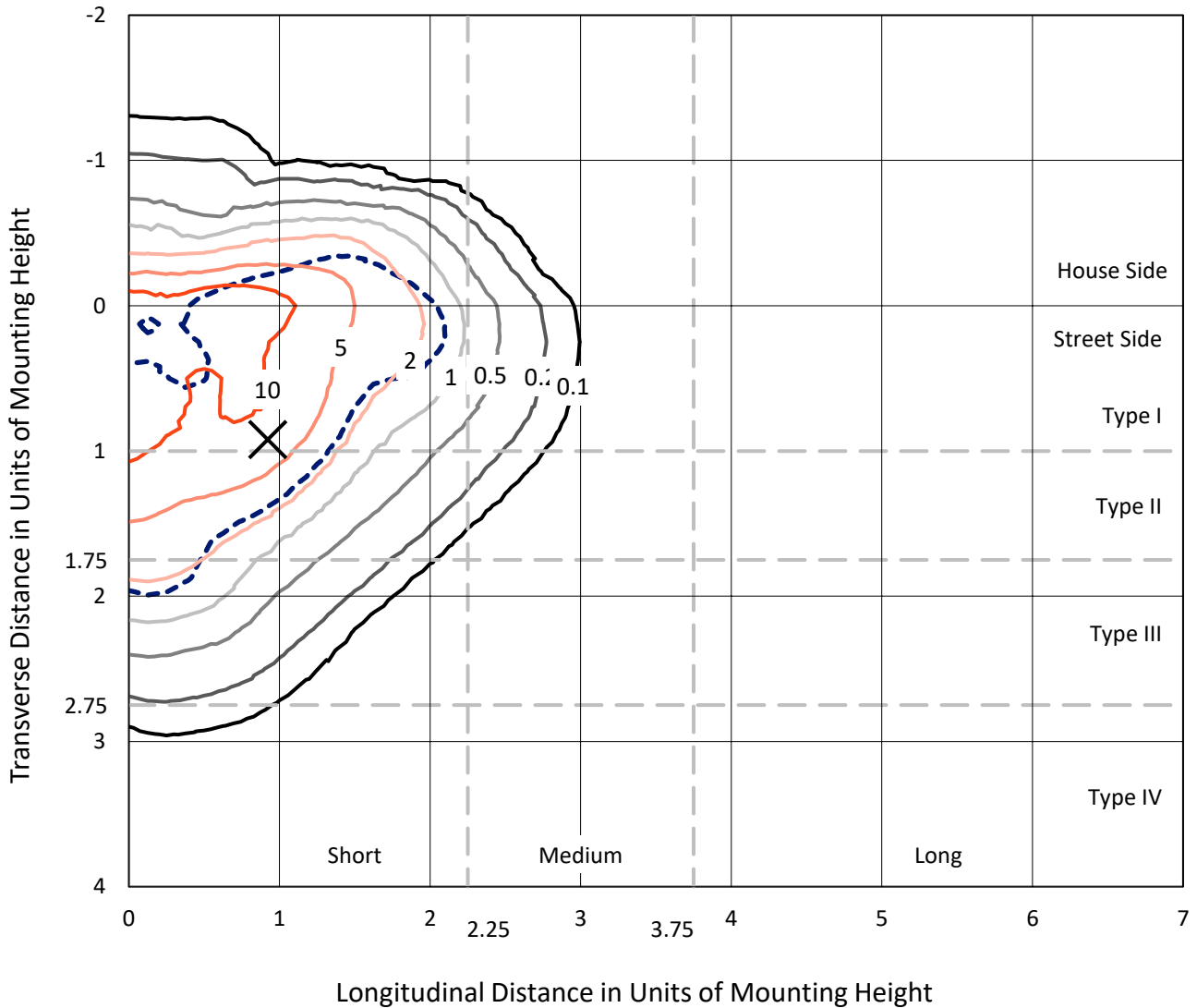
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

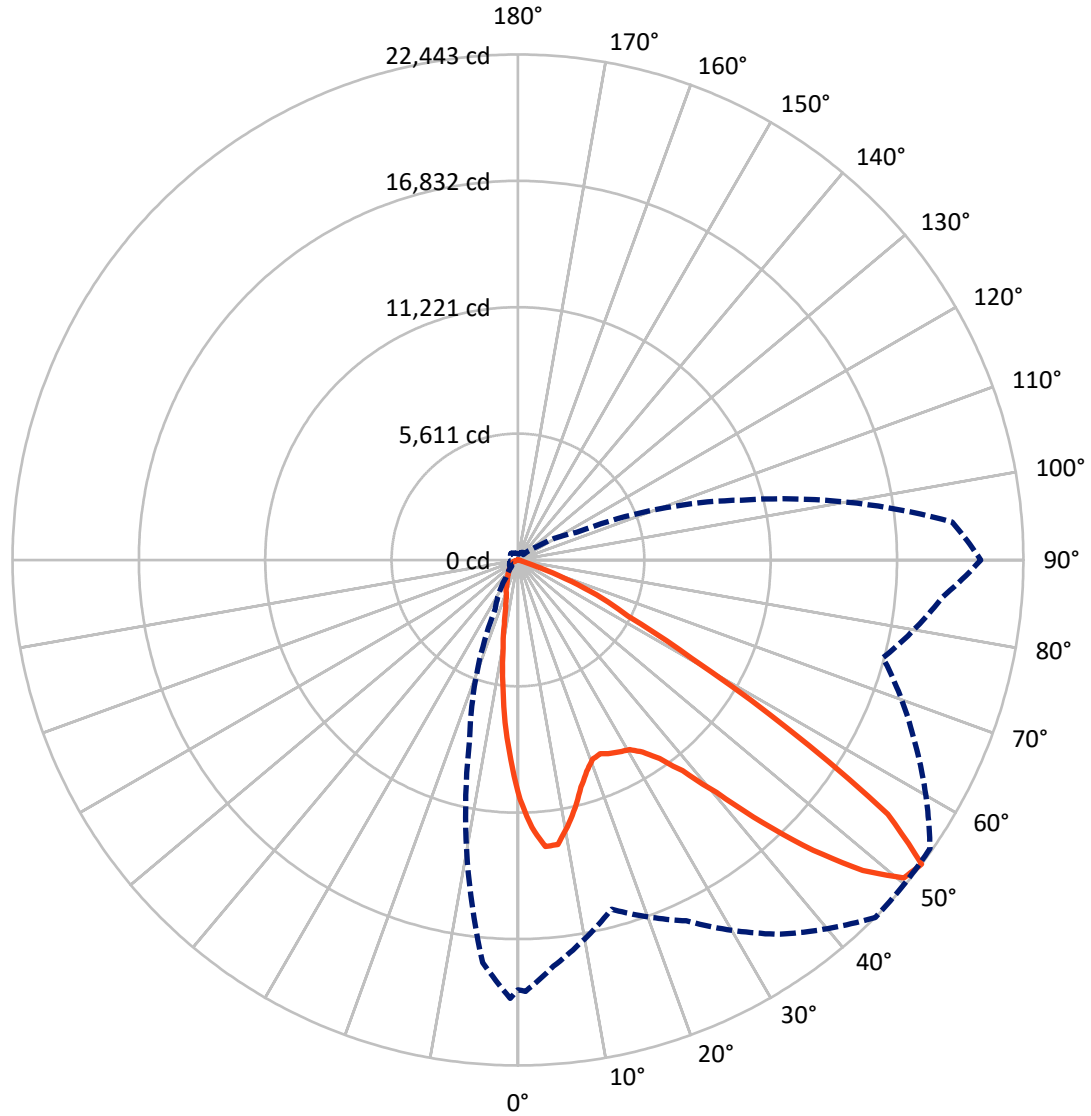
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 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	4254.6	0.0	4254.6
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	16709.3	0.0	16709.3
	% Fixture	79.7	0.0	79.7
Total	Lumens	20964.0	0.0	20964.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	775.2	3.7
10°-20°	1529.5	7.3
20°-30°	2327.6	11.1
30°-40°	3478.8	16.6
40°-50°	4954.2	23.6
50°-60°	5325.6	25.4
60°-70°	2359.9	11.3
70°-80°	190.9	0.9
80°-90°	22.2	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°	20964.0	100.0
0°-180°	20964.0	100.0

Coefficient of Utilization



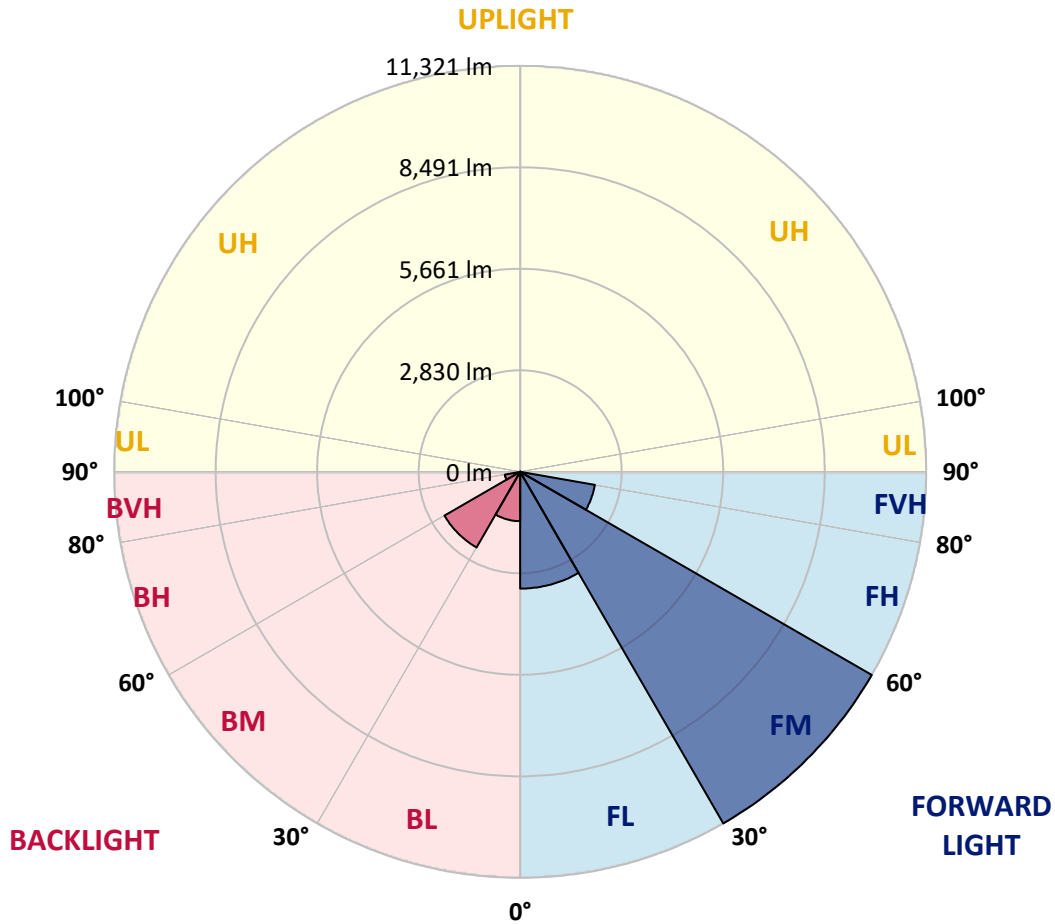
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3256.1	15.5			
FM (30°-60°)	11321.2	54.0			
FH (60°-80°)	2115.5	10.1			G2/5000
FVH (80°-90°)	16.5	0.1			G1/100
BL (0°-30°)	1376.1	6.6	B3/2500		
BM (30°-60°)	2437.4	11.6	B2/2500		
BH (60°-80°)	435.3	2.1	B1/500		G1/500
BVH (80°-90°)	5.8	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10629.7	10629.7	10629.7	10629.7	10629.7	10629.7	10629.7	10629.7	10629.7	10629.7	10629.7
2.5°	11248.2	11281.2	11462.6	11689.4	11809.0	12081.1	11891.4	11940.9	11837.8	11475.0	11190.5
5°	10906.0	10901.9	11132.8	11693.5	12225.4	12765.6	12782.1	12493.4	11986.3	11429.6	10633.8
7.5°	9875.2	10036.0	10275.1	11169.9	12155.3	12559.4	12753.2	12415.1	11635.8	10840.0	9978.2
10°	9095.9	9178.3	9582.4	10662.7	11384.3	11924.4	12044.0	11850.2	11252.3	10258.6	9293.8
12.5°	8646.4	8687.7	9161.8	10069.0	10831.8	11231.7	11289.4	11380.2	10951.3	10019.5	8860.9
15°	8650.6	8683.6	9322.7	10081.3	10382.3	10275.1	10464.8	10460.7	10646.2	9974.1	9223.7
17.5°	9273.2	9310.3	9887.5	10262.8	10130.8	9879.3	9866.9	10056.6	10448.3	10539.0	9772.1
20°	10345.2	10431.8	10856.5	10835.9	10093.7	9586.5	9446.4	9590.7	10501.9	11017.3	10877.1
22.5°	11788.4	11907.9	12204.8	11635.8	10262.8	9388.6	9343.3	9623.7	10856.5	12085.2	12130.6
25°	13462.4	13664.4	13808.7	13078.9	10864.7	9730.9	9516.4	9998.9	11334.8	13243.9	13726.3
27.5°	14571.5	14781.8	14748.8	13705.7	11268.8	9821.6	9640.1	10089.6	11751.2	13520.1	14559.2
30°	15437.4	15565.2	15796.1	14043.8	11672.9	10077.2	9768.0	10473.0	11887.3	13998.4	15565.2
32.5°	16447.6	16534.2	16550.7	14641.6	12295.5	10398.8	10163.8	10951.3	12489.3	14456.1	16455.9
35°	17466.1	17593.9	17325.9	15379.7	12679.0	10996.7	10823.5	11780.1	12971.7	14930.3	17437.2
37.5°	18571.1	18637.1	18018.6	15684.8	13227.4	11969.8	11874.9	12674.9	13808.7	15787.9	18525.7
40°	19498.8	19560.7	18756.6	16060.0	13804.6	13330.4	13573.7	14381.9	14946.8	16344.5	19070.0
42.5°	20014.2	20158.5	19004.0	15853.9	14963.3	14872.5	15952.8	16237.3	16266.2	16501.2	19556.5
45°	20154.4	20088.4	18595.8	16022.9	15977.6	17408.3	18389.7	18764.9	17577.4	16789.8	19680.2
47.5°	19507.1	19593.7	17993.8	15874.5	17309.4	19329.8	20599.7	21296.6	18554.6	16538.3	19375.1
50°	18983.4	18872.1	17800.0	15767.3	17668.1	20236.9	22195.4	22352.1	19453.5	16847.6	19041.1
52.5°	19086.5	19156.6	18109.3	16051.8	17676.3	20290.5	22442.8	22335.6	19482.3	16777.5	18921.6
55°	19305.0	18995.8	17977.3	15425.1	16493.0	18793.7	19919.4	19754.5	17981.5	16031.2	18628.8
57.5°	16657.9	17136.2	16530.1	13771.6	13536.6	14159.2	14138.6	14645.8	13412.9	13796.4	16958.9
60°	13520.1	13602.6	13829.4	11780.1	9368.0	9153.6	8856.7	8535.1	9025.8	11796.6	15425.1
62.5°	11891.4	11792.5	12600.6	10716.3	6613.7	5537.5	5488.0	5686.0	6964.2	11252.3	14468.5
65°	8642.3	8766.0	9351.5	8316.6	4964.4	4226.3	4152.1	4737.6	5636.5	9017.5	11042.0
67.5°	5277.8	5516.9	5570.5	5129.3	3368.7	2676.0	2568.8	3100.7	4069.6	5834.4	6473.5
70°	2436.8	2725.5	2997.6	2799.7	1950.3	1100.9	1039.1	1302.9	2053.4	3356.3	3434.7
72.5°	738.1	742.2	1039.1	1084.4	630.9	247.4	218.5	288.6	696.8	1109.2	1166.9
75°	53.6	57.7	140.2	160.8	119.6	61.8	66.0	78.3	148.4	247.4	185.5
77.5°	4.1	4.1	4.1	20.6	37.1	41.2	53.6	61.8	78.3	90.7	82.5
80°	4.1	0.0	4.1	16.5	28.9	41.2	49.5	57.7	61.8	70.1	61.8
82.5°	0.0	0.0	0.0	12.4	28.9	41.2	45.4	61.8	70.1	82.5	70.1
85°	0.0	0.0	0.0	12.4	28.9	45.4	41.2	20.6	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°	10629.7	10629.7	10629.7	10629.7	10629.7	10629.7	10629.7	10629.7	10629.7	10629.7	10629.7
2.5°	11240.0	11079.2	10712.2	10526.6	10089.6	10027.7	9598.9	9528.8	9384.5	9306.2	9116.5
5°	10283.4	10089.6	9491.7	8988.7	8403.2	7995.0	7681.6	7397.1	7232.2	7079.6	7149.7
7.5°	9504.1	8939.2	8275.4	7434.2	6758.0	6320.9	5842.6	5450.9	5220.0	5063.3	5100.5
10°	8687.7	8320.7	7397.1	6452.9	5636.5	5327.2	4952.0	4651.0	4325.3	4044.9	3913.0
12.5°	8432.0	7887.8	6729.1	5768.4	5149.9	4848.9	4420.1	4073.8	3657.3	3315.1	3195.5
15°	8477.4	7953.7	6547.7	5521.0	4791.2	4271.7	3760.4	3331.6	2873.9	2634.8	2511.1
17.5°	9215.4	8308.3	6667.3	5261.3	4292.3	3570.7	2939.9	2395.6	2053.4	1806.0	1752.4
20°	10122.6	9075.3	6922.9	5071.6	3884.1	2840.9	2148.2	1678.2	1393.7	1352.4	1340.1
22.5°	11450.2	10328.7	7471.3	4943.8	3385.2	2214.2	1472.0	1220.5	1142.1	1133.9	1138.0
25°	13305.7	11899.7	8069.2	4836.6	3010.0	1707.0	1204.0	1034.9	1010.2	997.8	1018.4
27.5°	14109.7	12848.0	8386.7	4605.7	2667.7	1538.0	1187.5	1026.7	956.6	936.0	948.3
30°	15103.4	13478.9	8885.6	4209.8	2164.7	1265.8	1109.2	1117.4	1084.4	981.3	948.3
32.5°	16422.9	14266.4	9137.1	3929.5	1933.8	1047.3	812.3	746.3	832.9	849.4	878.3
35°	17268.1	15066.3	9264.9	3764.5	1814.2	894.7	688.6	626.7	606.1	610.2	626.7
37.5°	18839.1	16146.6	9425.7	3591.3	1723.5	779.3	622.6	564.9	536.0	536.0	552.5
40°	19779.2	17004.3	9644.3	3496.5	1632.8	709.2	564.9	515.4	490.7	490.7	498.9
42.5°	20014.2	17429.0	9570.0	3463.5	1529.7	692.7	515.4	478.3	449.4	445.3	441.2
45°	20434.8	18076.3	9582.4	3426.4	1422.5	630.9	486.5	445.3	404.1	400.0	395.8
47.5°	20896.6	18542.2	9607.2	3282.1	1319.4	527.8	507.2	412.3	362.8	354.6	354.6
50°	20500.8	18913.3	9821.6	3137.8	1187.5	428.8	498.9	387.6	321.6	309.2	313.4
52.5°	20550.2	19350.4	10275.1	2935.7	1022.6	342.2	404.1	367.0	292.8	272.1	276.3
55°	19758.6	18888.6	10337.0	2721.3	799.9	263.9	309.2	321.6	247.4	239.1	239.1
57.5°	17008.4	15994.1	9120.6	2205.9	527.8	218.5	222.7	280.4	214.4	206.2	210.3
60°	14555.1	12839.8	7339.4	1455.5	329.9	173.2	160.8	284.5	189.7	185.5	197.9
62.5°	13268.6	10551.4	5566.4	903.0	226.8	131.9	111.3	230.9	164.9	164.9	181.4
65°	9586.5	7087.9	3236.7	474.2	160.8	103.1	82.5	131.9	136.1	140.2	148.4
67.5°	5937.5	3579.0	1364.8	230.9	107.2	70.1	53.6	82.5	90.7	90.7	99.0
70°	2931.6	1426.6	453.6	131.9	82.5	57.7	37.1	45.4	45.4	41.2	45.4
72.5°	907.1	428.8	115.5	82.5	57.7	37.1	20.6	16.5	8.2	0.0	4.1
75°	103.1	82.5	74.2	57.7	37.1	16.5	4.1	0.0	0.0	0.0	0.0
77.5°	61.8	70.1	70.1	57.7	37.1	12.4	0.0	0.0	0.0	0.0	0.0
80°	49.5	53.6	57.7	53.6	33.0	16.5	0.0	0.0	0.0	0.0	0.0
82.5°	61.8	70.1	78.3	70.1	45.4	20.6	8.2	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	12.4	4.1	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°	10629.7	10629.7	10629.7	10629.7	10629.7	10629.7	10629.7	10629.7	10629.7	10629.7	10629.7
2.5°	9038.2	8947.4	9075.3	8885.6	8881.5	8885.6	8832.0	8782.5	8860.9	9071.1	9091.8
5°	6898.2	7092.0	7153.8	7355.9	7244.5	7079.6	7112.6	7001.3	7273.4	7393.0	7298.1
7.5°	5022.1	5009.7	5426.2	5450.9	5504.5	5508.7	5500.4	5281.9	5059.2	5108.7	5257.1
10°	3896.5	3686.2	3888.2	3867.6	3999.5	3962.4	4016.0	3781.0	3859.4	3859.4	3954.2
12.5°	3174.9	2952.2	2915.1	2861.5	2915.1	2935.7	2956.4	2911.0	3043.0	3104.8	3170.8
15°	2424.5	2300.8	2267.8	2164.7	2181.2	2238.9	2288.4	2309.0	2267.8	2362.6	2370.9
17.5°	1760.6	1756.5	1777.1	1773.0	1756.5	1744.1	1740.0	1686.4	1669.9	1678.2	1711.1
20°	1335.9	1368.9	1439.0	1509.1	1546.2	1500.9	1439.0	1348.3	1311.2	1319.4	1323.6
22.5°	1142.1	1191.6	1286.5	1364.8	1401.9	1319.4	1208.1	1129.8	1113.3	1109.2	1105.0
25°	1034.9	1092.7	1162.8	1187.5	1183.4	1133.9	1051.4	1018.4	1010.2	1001.9	964.8
27.5°	977.2	997.8	1010.2	1039.1	1051.4	1018.4	997.8	948.3	940.1	940.1	915.4
30°	944.2	931.9	948.3	927.7	944.2	919.5	923.6	923.6	903.0	911.2	911.2
32.5°	878.3	882.4	882.4	841.1	853.5	824.6	853.5	878.3	882.4	886.5	919.5
35°	643.2	717.4	754.6	754.6	766.9	746.3	742.2	713.3	676.2	639.1	622.6
37.5°	564.9	593.7	643.2	672.1	692.7	676.2	639.1	593.7	573.1	556.6	540.1
40°	503.0	527.8	560.8	593.7	635.0	614.4	556.6	536.0	511.3	511.3	494.8
42.5°	453.6	465.9	486.5	536.0	581.4	540.1	498.9	482.4	470.0	465.9	461.8
45°	408.2	412.3	432.9	474.2	527.8	486.5	445.3	424.7	428.8	432.9	428.8
47.5°	367.0	375.2	387.6	437.1	470.0	449.4	404.1	391.7	391.7	391.7	395.8
50°	317.5	338.1	362.8	404.1	428.8	416.4	379.3	362.8	354.6	354.6	358.7
52.5°	284.5	301.0	334.0	383.5	416.4	395.8	358.7	334.0	317.5	313.4	321.6
55°	247.4	276.3	329.9	367.0	412.3	391.7	350.5	321.6	292.8	288.6	288.6
57.5°	222.7	268.0	317.5	362.8	400.0	383.5	350.5	313.4	276.3	272.1	272.1
60°	210.3	259.8	309.2	350.5	400.0	375.2	346.4	305.1	263.9	263.9	259.8
62.5°	197.9	243.3	292.8	334.0	383.5	362.8	334.0	292.8	251.5	251.5	243.3
65°	164.9	210.3	243.3	280.4	334.0	313.4	284.5	255.6	222.7	214.4	218.5
67.5°	115.5	144.3	177.3	214.4	247.4	239.1	226.8	206.2	177.3	173.2	169.1
70°	57.7	78.3	107.2	144.3	173.2	164.9	156.7	140.2	123.7	119.6	119.6
72.5°	8.2	24.7	45.4	66.0	90.7	94.8	90.7	86.6	82.5	78.3	82.5
75°	0.0	0.0	0.0	16.5	37.1	45.4	53.6	61.8	61.8	53.6	66.0
77.5°	0.0	0.0	0.0	0.0	4.1	20.6	41.2	53.6	66.0	57.7	78.3
80°	0.0	0.0	0.0	0.0	4.1	24.7	41.2	57.7	66.0	57.7	82.5
82.5°	0.0	0.0	0.0	0.0	4.1	28.9	41.2	53.6	61.8	57.7	74.2
85°	0.0	0.0	0.0	0.0	12.4	24.7	16.5	8.2	4.1	4.1	12.4
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-SA9B-827-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10629.7	10629.7	10629.7	10629.7	10629.7	10629.7	10629.7	10629.7	10629.7	10629.7
2.5°	9207.2	9500.0	9813.3	9932.9	10304.0	10584.4	10774.0	11182.2	11244.1	11248.2
5°	7397.1	7545.5	8081.6	8333.1	8885.6	9314.4	9772.1	10431.8	10873.0	10906.0
7.5°	5257.1	5669.5	5896.2	6551.8	7232.2	7904.3	8584.6	9351.5	9862.8	9875.2
10°	4230.4	4498.5	4902.5	5393.2	5966.3	6650.8	7557.9	8448.5	8968.1	9095.9
12.5°	3405.8	3875.8	4337.7	4844.8	5281.9	5797.3	6774.5	7962.0	8390.8	8646.4
15°	2622.4	3051.2	3595.5	4189.2	4684.0	5372.6	6485.9	7842.4	8564.0	8650.6
17.5°	1933.8	2317.3	2820.3	3381.1	4123.2	5100.5	6535.3	8448.5	9128.9	9273.2
20°	1389.5	1612.2	2008.0	2659.5	3603.7	4783.0	6584.8	9062.9	10097.8	10345.2
22.5°	1100.9	1191.6	1451.4	2028.6	3022.3	4449.0	6935.3	10238.0	11429.6	11788.4
25°	956.6	1006.1	1129.8	1599.8	2655.4	4416.0	7496.1	11648.2	13202.6	13462.4
27.5°	923.6	931.9	1039.1	1467.9	2457.5	4197.5	7710.5	12650.1	14307.7	14571.5
30°	973.1	1105.0	1113.3	1241.1	2090.5	3764.5	7821.8	13619.1	15243.6	15437.4
32.5°	841.1	799.9	828.8	960.7	1839.0	3513.0	8032.1	14464.3	16311.6	16447.6
35°	585.5	614.4	680.3	832.9	1608.1	3249.1	8085.7	15396.2	17325.9	17466.1
37.5°	540.1	556.6	610.2	709.2	1414.3	3100.7	8011.5	16076.5	18377.3	18571.1
40°	503.0	523.7	552.5	643.2	1270.0	2935.7	7908.4	16690.9	19020.5	19498.8
42.5°	474.2	490.7	515.4	614.4	1146.3	2770.8	7764.1	17556.8	19597.8	20014.2
45°	441.2	465.9	494.8	597.9	1076.2	2659.5	7656.9	17503.2	19931.8	20154.4
47.5°	408.2	449.4	482.4	556.6	1055.6	2605.9	7702.2	17301.1	19659.6	19507.1
50°	375.2	428.8	486.5	461.8	1006.1	2498.7	7755.8	17577.4	19012.3	18983.4
52.5°	346.4	408.2	453.6	379.3	894.7	2395.6	8275.4	17940.2	19470.0	19086.5
55°	305.1	367.0	362.8	305.1	725.7	2317.3	8683.6	17948.5	19160.7	19305.0
57.5°	276.3	325.7	284.5	255.6	536.0	1937.9	8019.7	15049.8	16402.3	16657.9
60°	255.6	317.5	214.4	202.0	350.5	1397.8	7001.3	11656.4	13037.7	13520.1
62.5°	235.0	301.0	169.1	164.9	243.3	993.7	5756.0	9755.6	11235.8	11891.4
65°	206.2	214.4	136.1	127.8	173.2	536.0	3504.8	6716.8	8399.0	8642.3
67.5°	169.1	164.9	111.3	103.1	115.5	259.8	1546.2	3364.6	4869.6	5277.8
70°	136.1	136.1	94.8	82.5	82.5	119.6	404.1	1340.1	2201.8	2436.8
72.5°	99.0	103.1	74.2	66.0	61.8	57.7	66.0	268.0	577.3	738.1
75°	86.6	90.7	74.2	57.7	45.4	37.1	28.9	24.7	33.0	53.6
77.5°	94.8	94.8	78.3	53.6	41.2	28.9	16.5	8.2	8.2	4.1
80°	119.6	123.7	103.1	70.1	49.5	33.0	20.6	8.2	4.1	4.1
82.5°	127.8	140.2	115.5	86.6	61.8	37.1	20.6	4.1	0.0	0.0
85°	33.0	53.6	90.7	78.3	61.8	37.1	20.6	4.1	0.0	0.0
87.5°	0.0	4.1	12.4	12.4	16.5	16.5	12.4	4.1	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)