

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: P531719

Luminaire Tested: **GALN-SA7A-735-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531719
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-SA7A-735-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 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: 16404 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

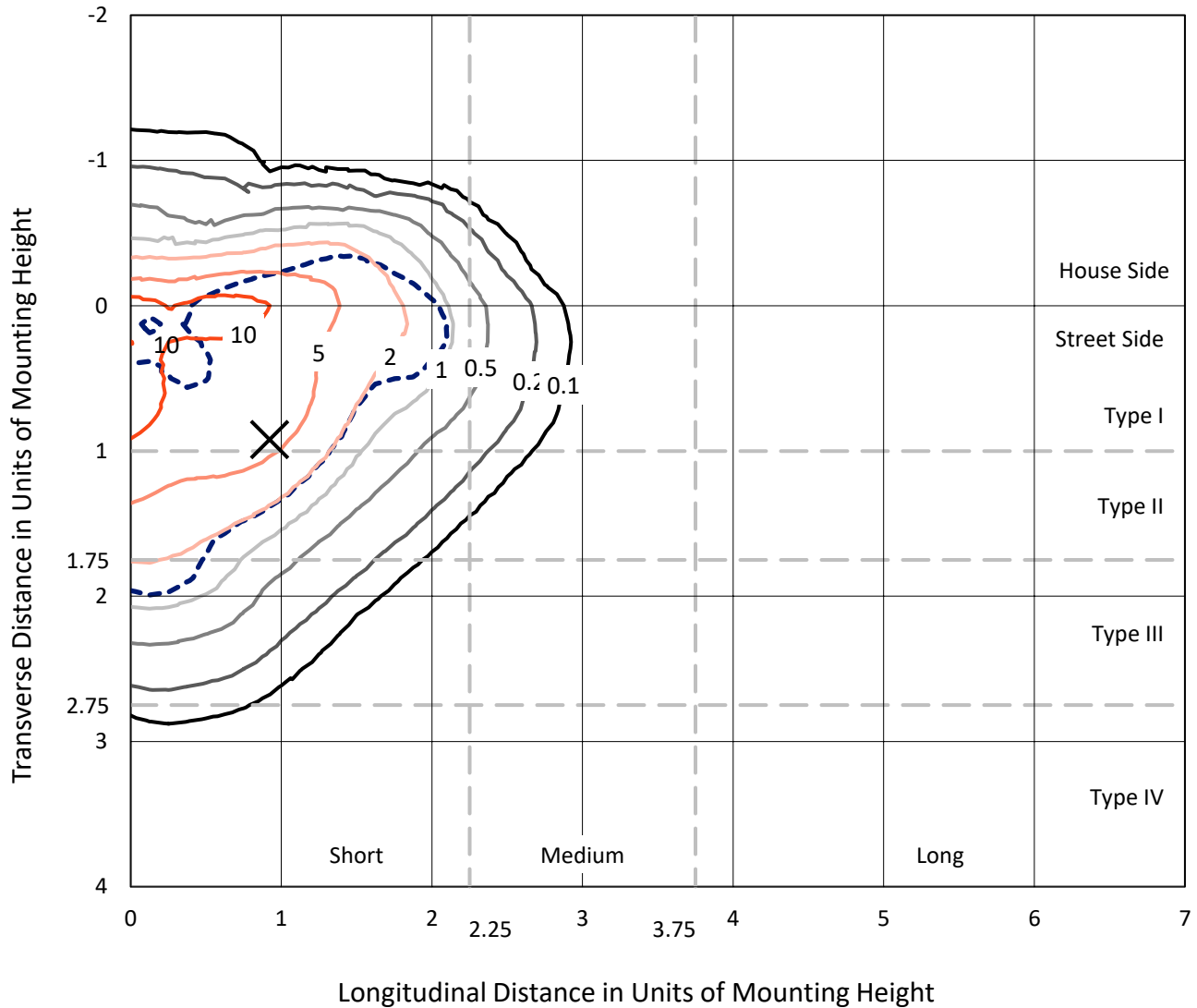
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

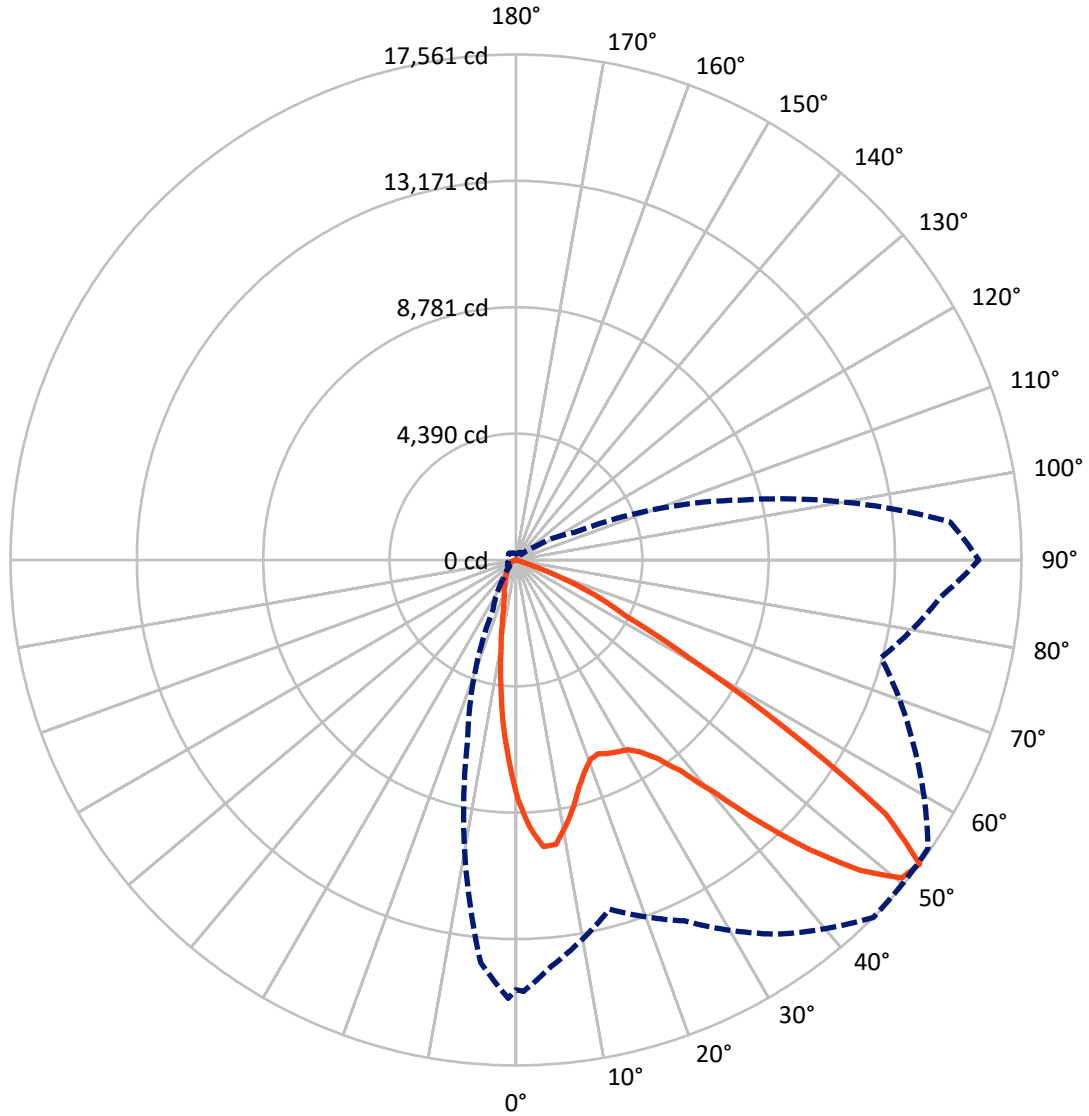
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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	3329.2	0.0	3329.2
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	13074.8	0.0	13074.8
	% Fixture	79.7	0.0	79.7
Total	Lumens	16404.0	0.0	16404.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	606.6	3.7
10°-20°	1196.8	7.3
20°-30°	1821.3	11.1
30°-40°	2722.1	16.6
40°-50°	3876.6	23.6
50°-60°	4167.2	25.4
60°-70°	1846.6	11.3
70°-80°	149.4	0.9
80°-90°	17.4	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°	16404.0	100.0
0°-180°	16404.0	100.0

Coefficient of Utilization

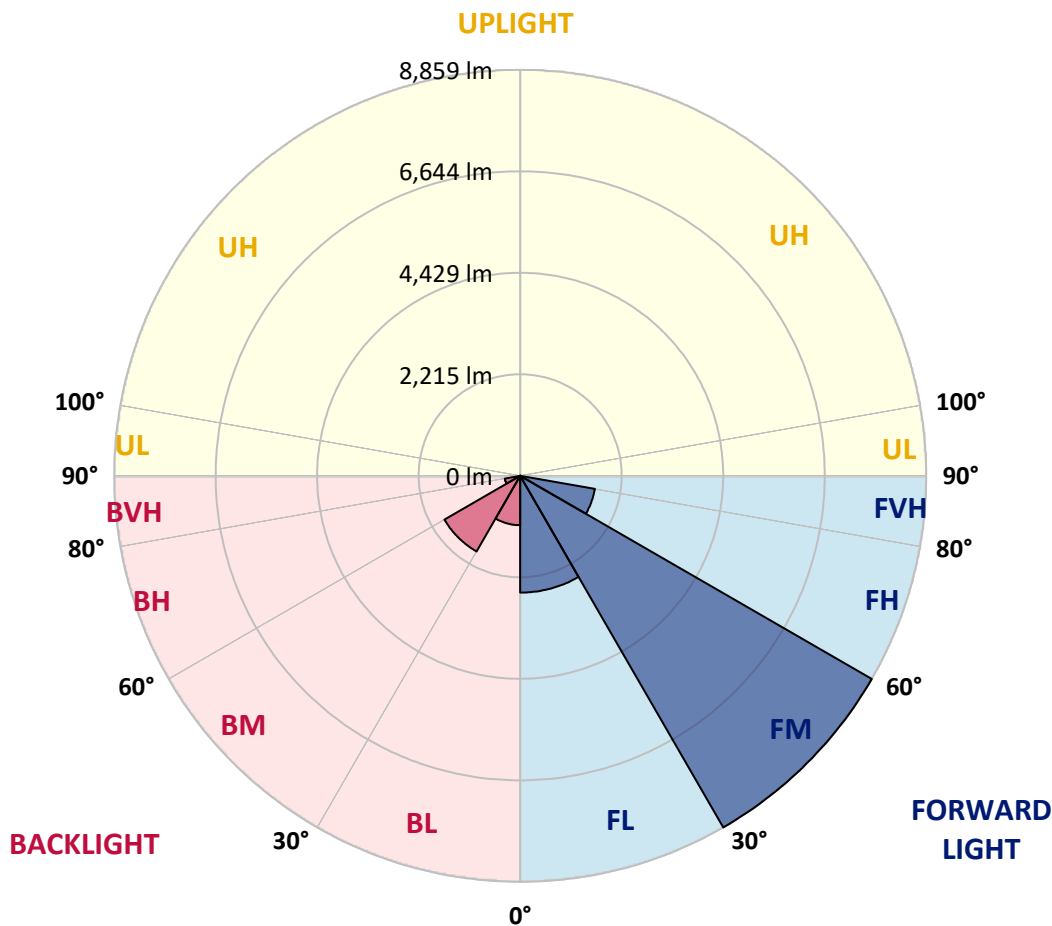


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2547.9	15.5			
FM (30°-60°)	8858.7	54.0			
FH (60°-80°)	1655.4	10.1			G1/1800
FVH (80°-90°)	12.9	0.1			G1/100
BL (0°-30°)	1076.8	6.6	B3/2500		
BM (30°-60°)	1907.3	11.6	B2/2500		
BH (60°-80°)	340.6	2.1	B1/500		G1/500
BVH (80°-90°)	4.5	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°	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6
2.5°	8801.5	8827.4	8969.3	9146.8	9240.3	9453.3	9304.9	9343.6	9262.9	8979.0	8756.4
5°	8533.8	8530.5	8711.2	9150.0	9566.2	9988.9	10001.8	9775.9	9379.1	8943.5	8320.8
7.5°	7727.2	7853.0	8040.1	8740.2	9511.3	9827.5	9979.2	9714.6	9104.8	8482.1	7807.8
10°	7117.4	7181.9	7498.1	8343.4	8908.0	9330.7	9424.2	9272.6	8804.8	8027.2	7272.2
12.5°	6765.7	6798.0	7169.0	7878.8	8475.7	8788.6	8833.8	8904.8	8569.2	7840.1	6933.5
15°	6768.9	6794.7	7294.8	7888.5	8124.0	8040.1	8188.5	8185.3	8330.5	7804.6	7217.4
17.5°	7256.1	7285.2	7736.8	8030.4	7927.2	7730.4	7720.7	7869.1	8175.6	8246.6	7646.5
20°	8095.0	8162.7	8495.0	8478.9	7898.2	7501.3	7391.6	7504.5	8217.6	8620.9	8511.2
22.5°	9224.2	9317.8	9550.1	9104.8	8030.4	7346.5	7311.0	7530.4	8495.0	9456.5	9492.0
25°	10534.1	10692.2	10805.1	10234.1	8501.5	7614.2	7446.5	7824.0	8869.3	10363.1	10740.6
27.5°	11402.0	11566.5	11540.7	10724.5	8817.7	7685.2	7543.3	7894.9	9195.2	10579.3	11392.3
30°	12079.5	12179.6	12360.2	10989.0	9133.9	7885.3	7643.3	8195.0	9301.6	10953.5	12179.6
32.5°	12870.0	12937.8	12950.7	11456.9	9621.0	8136.9	7953.0	8569.2	9772.7	11311.7	12876.5
35°	13666.9	13766.9	13557.2	12034.4	9921.1	8604.7	8469.2	9217.7	10150.2	11682.7	13644.3
37.5°	14531.6	14583.2	14099.3	12273.1	10350.2	9366.2	9292.0	9917.9	10805.1	12353.8	14496.1
40°	15257.5	15305.9	14676.8	12566.7	10801.9	10430.9	10621.2	11253.6	11695.6	12789.3	14922.0
42.5°	15660.8	15773.7	14870.4	12405.4	11708.5	11637.5	12482.8	12705.5	12728.0	12911.9	15302.7
45°	15770.5	15718.9	14550.9	12537.7	12502.2	13621.7	14389.6	14683.2	13754.0	13137.8	15399.5
47.5°	15264.0	15331.7	14079.9	12421.5	13544.3	15125.2	16119.0	16664.2	14518.7	12941.0	15160.7
50°	14854.2	14767.1	13928.3	12337.7	13825.0	15835.0	17367.6	17490.2	15222.0	13183.0	14899.4
52.5°	14934.9	14989.7	14170.2	12560.3	13831.5	15877.0	17561.2	17477.3	15244.6	13128.1	14805.8
55°	15105.9	14863.9	14067.0	12069.9	12905.5	14705.8	15586.6	15457.6	14070.2	12544.1	14576.8
57.5°	13034.5	13408.8	12934.5	10776.1	10592.2	11079.4	11063.2	11460.1	10495.4	10795.4	13270.1
60°	10579.3	10643.8	10821.3	9217.7	7330.3	7162.5	6930.2	6678.6	7062.5	9230.7	12069.9
62.5°	9304.9	9227.4	9859.8	8385.3	5175.1	4333.0	4294.3	4449.2	5449.3	8804.8	11321.3
65°	6762.5	6859.3	7317.4	6507.6	3884.6	3307.0	3249.0	3707.1	4410.5	7056.1	8640.2
67.5°	4129.8	4316.9	4358.8	4013.6	2635.9	2093.9	2010.0	2426.2	3184.4	4565.3	5065.4
70°	1906.8	2132.6	2345.6	2190.7	1526.1	861.4	813.0	1019.5	1606.7	2626.3	2687.6
72.5°	577.5	580.7	813.0	848.5	493.6	193.6	171.0	225.8	545.3	867.9	913.1
75°	41.9	45.2	109.7	125.8	93.6	48.4	51.6	61.3	116.1	193.6	145.2
77.5°	3.2	3.2	3.2	16.1	29.0	32.3	41.9	48.4	61.3	71.0	64.5
80°	3.2	0.0	3.2	12.9	22.6	32.3	38.7	45.2	48.4	54.8	48.4
82.5°	0.0	0.0	0.0	9.7	22.6	32.3	35.5	48.4	54.8	64.5	54.8
85°	0.0	0.0	0.0	9.7	22.6	35.5	32.3	16.1	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°	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6
2.5°	8795.1	8669.3	8382.1	8236.9	7894.9	7846.5	7511.0	7456.1	7343.2	7281.9	7133.5
5°	8046.6	7894.9	7427.1	7033.5	6575.3	6255.9	6010.7	5788.1	5659.1	5539.7	5594.5
7.5°	7436.8	6994.8	6475.3	5817.2	5288.0	4946.0	4571.8	4265.3	4084.6	3962.0	3991.0
10°	6798.0	6510.8	5788.1	5049.3	4410.5	4168.5	3874.9	3639.3	3384.5	3165.1	3061.8
12.5°	6597.9	6172.1	5265.4	4513.7	4029.7	3794.2	3458.7	3187.7	2861.8	2594.0	2500.4
15°	6633.4	6223.7	5123.5	4320.1	3749.0	3342.5	2942.5	2606.9	2248.8	2061.7	1964.9
17.5°	7210.9	6501.1	5217.0	4116.9	3358.7	2794.0	2300.4	1874.5	1606.7	1413.2	1371.2
20°	7920.7	7101.2	5417.1	3968.4	3039.2	2223.0	1680.9	1313.1	1090.5	1058.3	1048.6
22.5°	8959.6	8082.1	5846.2	3868.4	2648.9	1732.6	1151.8	955.0	893.7	887.3	890.5
25°	10411.5	9311.3	6314.0	3784.5	2355.3	1335.7	942.1	809.8	790.5	780.8	796.9
27.5°	11040.6	10053.4	6562.4	3603.9	2087.5	1203.4	929.2	803.4	748.5	732.4	742.1
30°	11818.2	10547.0	6952.8	3294.1	1693.8	990.5	867.9	874.3	848.5	767.9	742.1
32.5°	12850.6	11163.3	7149.6	3074.7	1513.2	819.5	635.6	584.0	651.7	664.6	687.2
35°	13512.1	11789.2	7249.7	2945.7	1419.6	700.1	538.8	490.4	474.3	477.5	490.4
37.5°	14741.3	12634.5	7375.5	2810.2	1348.6	609.8	487.2	442.0	419.4	419.4	432.3
40°	15476.9	13305.6	7546.5	2736.0	1277.6	554.9	442.0	403.3	383.9	383.9	390.4
42.5°	15660.8	13637.9	7488.4	2710.2	1197.0	542.0	403.3	374.3	351.7	348.4	345.2
45°	15989.9	14144.4	7498.1	2681.1	1113.1	493.6	380.7	348.4	316.2	313.0	309.7
47.5°	16351.3	14509.0	7517.4	2568.2	1032.4	413.0	396.8	322.6	283.9	277.5	277.5
50°	16041.5	14799.4	7685.2	2455.3	929.2	335.5	390.4	303.3	251.7	242.0	245.2
52.5°	16080.2	15141.4	8040.1	2297.2	800.1	267.8	316.2	287.1	229.1	212.9	216.2
55°	15460.8	14780.0	8088.5	2129.4	625.9	206.5	242.0	251.7	193.6	187.1	187.1
57.5°	13308.8	12515.1	7136.7	1726.1	413.0	171.0	174.2	219.4	167.8	161.3	164.5
60°	11389.1	10046.9	5742.9	1138.9	258.1	135.5	125.8	222.6	148.4	145.2	154.9
62.5°	10382.5	8256.3	4355.6	706.6	177.5	103.2	87.1	180.7	129.1	129.1	142.0
65°	7501.3	5546.1	2532.7	371.0	125.8	80.7	64.5	103.2	106.5	109.7	116.1
67.5°	4646.0	2800.5	1067.9	180.7	83.9	54.8	41.9	64.5	71.0	71.0	77.4
70°	2294.0	1116.3	354.9	103.2	64.5	45.2	29.0	35.5	35.5	32.3	35.5
72.5°	709.8	335.5	90.3	64.5	45.2	29.0	16.1	12.9	6.5	0.0	3.2
75°	80.7	64.5	58.1	45.2	29.0	12.9	3.2	0.0	0.0	0.0	0.0
77.5°	48.4	54.8	54.8	45.2	29.0	9.7	0.0	0.0	0.0	0.0	0.0
80°	38.7	41.9	45.2	41.9	25.8	12.9	0.0	0.0	0.0	0.0	0.0
82.5°	48.4	54.8	61.3	54.8	35.5	16.1	6.5	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	9.7	3.2	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°	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6
2.5°	7072.2	7001.2	7101.2	6952.8	6949.6	6952.8	6910.9	6872.2	6933.5	7098.0	7114.2
5°	5397.7	5549.4	5597.8	5755.9	5668.7	5539.7	5565.5	5478.4	5691.3	5784.9	5710.7
7.5°	3929.7	3920.0	4245.9	4265.3	4307.2	4310.4	4304.0	4133.0	3958.8	3997.5	4113.6
10°	3048.9	2884.4	3042.5	3026.3	3129.6	3100.5	3142.5	2958.6	3019.9	3019.9	3094.1
12.5°	2484.3	2310.1	2281.0	2239.1	2281.0	2297.2	2313.3	2277.8	2381.1	2429.5	2481.1
15°	1897.1	1800.3	1774.5	1693.8	1706.8	1751.9	1790.6	1806.8	1774.5	1848.7	1855.2
17.5°	1377.7	1374.4	1390.6	1387.3	1374.4	1364.8	1361.5	1319.6	1306.7	1313.1	1338.9
20°	1045.3	1071.2	1126.0	1180.9	1209.9	1174.4	1126.0	1055.0	1026.0	1032.4	1035.7
22.5°	893.7	932.4	1006.6	1067.9	1097.0	1032.4	945.3	884.0	871.1	867.9	864.7
25°	809.8	855.0	909.8	929.2	926.0	887.3	822.7	796.9	790.5	784.0	755.0
27.5°	764.7	780.8	790.5	813.0	822.7	796.9	780.8	742.1	735.6	735.6	716.3
30°	738.8	729.2	742.1	725.9	738.8	719.5	722.7	722.7	706.6	713.0	713.0
32.5°	687.2	690.4	690.4	658.2	667.9	645.3	667.9	687.2	690.4	693.7	719.5
35°	503.3	561.4	590.4	590.4	600.1	584.0	580.7	558.2	529.1	500.1	487.2
37.5°	442.0	464.6	503.3	525.9	542.0	529.1	500.1	464.6	448.5	435.6	422.7
40°	393.6	413.0	438.8	464.6	496.9	480.7	435.6	419.4	400.1	400.1	387.2
42.5°	354.9	364.6	380.7	419.4	454.9	422.7	390.4	377.5	367.8	364.6	361.4
45°	319.4	322.6	338.8	371.0	413.0	380.7	348.4	332.3	335.5	338.8	335.5
47.5°	287.1	293.6	303.3	342.0	367.8	351.7	316.2	306.5	306.5	306.5	309.7
50°	248.4	264.6	283.9	316.2	335.5	325.9	296.8	283.9	277.5	277.5	280.7
52.5°	222.6	235.5	261.3	300.1	325.9	309.7	280.7	261.3	248.4	245.2	251.7
55°	193.6	216.2	258.1	287.1	322.6	306.5	274.2	251.7	229.1	225.8	225.8
57.5°	174.2	209.7	248.4	283.9	313.0	300.1	274.2	245.2	216.2	212.9	212.9
60°	164.5	203.3	242.0	274.2	313.0	293.6	271.0	238.8	206.5	206.5	203.3
62.5°	154.9	190.4	229.1	261.3	300.1	283.9	261.3	229.1	196.8	196.8	190.4
65°	129.1	164.5	190.4	219.4	261.3	245.2	222.6	200.0	174.2	167.8	171.0
67.5°	90.3	112.9	138.7	167.8	193.6	187.1	177.5	161.3	138.7	135.5	132.3
70°	45.2	61.3	83.9	112.9	135.5	129.1	122.6	109.7	96.8	93.6	93.6
72.5°	6.5	19.4	35.5	51.6	71.0	74.2	71.0	67.8	64.5	61.3	64.5
75°	0.0	0.0	0.0	12.9	29.0	35.5	41.9	48.4	48.4	41.9	51.6
77.5°	0.0	0.0	0.0	0.0	3.2	16.1	32.3	41.9	51.6	45.2	61.3
80°	0.0	0.0	0.0	0.0	3.2	19.4	32.3	45.2	51.6	45.2	64.5
82.5°	0.0	0.0	0.0	0.0	3.2	22.6	32.3	41.9	48.4	45.2	58.1
85°	0.0	0.0	0.0	0.0	9.7	19.4	12.9	6.5	3.2	3.2	9.7
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-SA7A-735-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6
2.5°	7204.5	7433.6	7678.8	7772.3	8062.7	8282.1	8430.5	8749.9	8798.3	8801.5
5°	5788.1	5904.3	6323.7	6520.5	6952.8	7288.4	7646.5	8162.7	8507.9	8533.8
7.5°	4113.6	4436.3	4613.7	5126.7	5659.1	6185.0	6717.3	7317.4	7717.5	7727.2
10°	3310.3	3520.0	3836.2	4220.1	4668.6	5204.1	5913.9	6610.8	7017.4	7117.4
12.5°	2665.0	3032.8	3394.1	3791.0	4133.0	4536.3	5300.9	6230.1	6565.7	6765.7
15°	2052.0	2387.5	2813.4	3278.0	3665.2	4204.0	5075.1	6136.6	6701.2	6768.9
17.5°	1513.2	1813.2	2206.8	2645.6	3226.4	3991.0	5113.8	6610.8	7143.2	7256.1
20°	1087.3	1261.5	1571.2	2081.0	2819.9	3742.6	5152.5	7091.6	7901.4	8095.0
22.5°	861.4	932.4	1135.7	1587.4	2364.9	3481.3	5426.8	8011.1	8943.5	9224.2
25°	748.5	787.2	884.0	1251.8	2077.8	3455.4	5865.5	9114.5	10330.8	10534.1
27.5°	722.7	729.2	813.0	1148.6	1922.9	3284.4	6033.3	9898.5	11195.5	11402.0
30°	761.4	864.7	871.1	971.1	1635.8	2945.7	6120.4	10656.7	11927.9	12079.5
32.5°	658.2	625.9	648.5	751.7	1439.0	2748.9	6285.0	11318.1	12763.5	12870.0
35°	458.1	480.7	532.4	651.7	1258.3	2542.4	6326.9	12047.3	13557.2	13666.9
37.5°	422.7	435.6	477.5	554.9	1106.6	2426.2	6268.8	12579.6	14379.9	14531.6
40°	393.6	409.7	432.3	503.3	993.7	2297.2	6188.2	13060.4	14883.3	15257.5
42.5°	371.0	383.9	403.3	480.7	896.9	2168.1	6075.3	13737.9	15335.0	15660.8
45°	345.2	364.6	387.2	467.8	842.1	2081.0	5991.4	13696.0	15596.3	15770.5
47.5°	319.4	351.7	377.5	435.6	826.0	2039.1	6026.9	13537.9	15383.3	15264.0
50°	293.6	335.5	380.7	361.4	787.2	1955.2	6068.8	13754.0	14876.8	14854.2
52.5°	271.0	319.4	354.9	296.8	700.1	1874.5	6475.3	14038.0	15234.9	14934.9
55°	238.8	287.1	283.9	238.8	567.8	1813.2	6794.7	14044.4	14993.0	15105.9
57.5°	216.2	254.9	222.6	200.0	419.4	1516.4	6275.3	11776.3	12834.5	13034.5
60°	200.0	248.4	167.8	158.1	274.2	1093.7	5478.4	9121.0	10201.8	10579.3
62.5°	183.9	235.5	132.3	129.1	190.4	777.6	4504.0	7633.6	8791.9	9304.9
65°	161.3	167.8	106.5	100.0	135.5	419.4	2742.4	5255.8	6572.1	6762.5
67.5°	132.3	129.1	87.1	80.7	90.3	203.3	1209.9	2632.7	3810.3	4129.8
70°	106.5	106.5	74.2	64.5	64.5	93.6	316.2	1048.6	1722.9	1906.8
72.5°	77.4	80.7	58.1	51.6	48.4	45.2	51.6	209.7	451.7	577.5
75°	67.8	71.0	58.1	45.2	35.5	29.0	22.6	19.4	25.8	41.9
77.5°	74.2	74.2	61.3	41.9	32.3	22.6	12.9	6.5	6.5	3.2
80°	93.6	96.8	80.7	54.8	38.7	25.8	16.1	6.5	3.2	3.2
82.5°	100.0	109.7	90.3	67.8	48.4	29.0	16.1	3.2	0.0	0.0
85°	25.8	41.9	71.0	61.3	48.4	29.0	16.1	3.2	0.0	0.0
87.5°	0.0	3.2	9.7	9.7	12.9	12.9	9.7	3.2	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)