

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: P529849

Luminaire Tested: **GALN-SA5A-735-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529849
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-SA5A-735-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 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: 11794 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

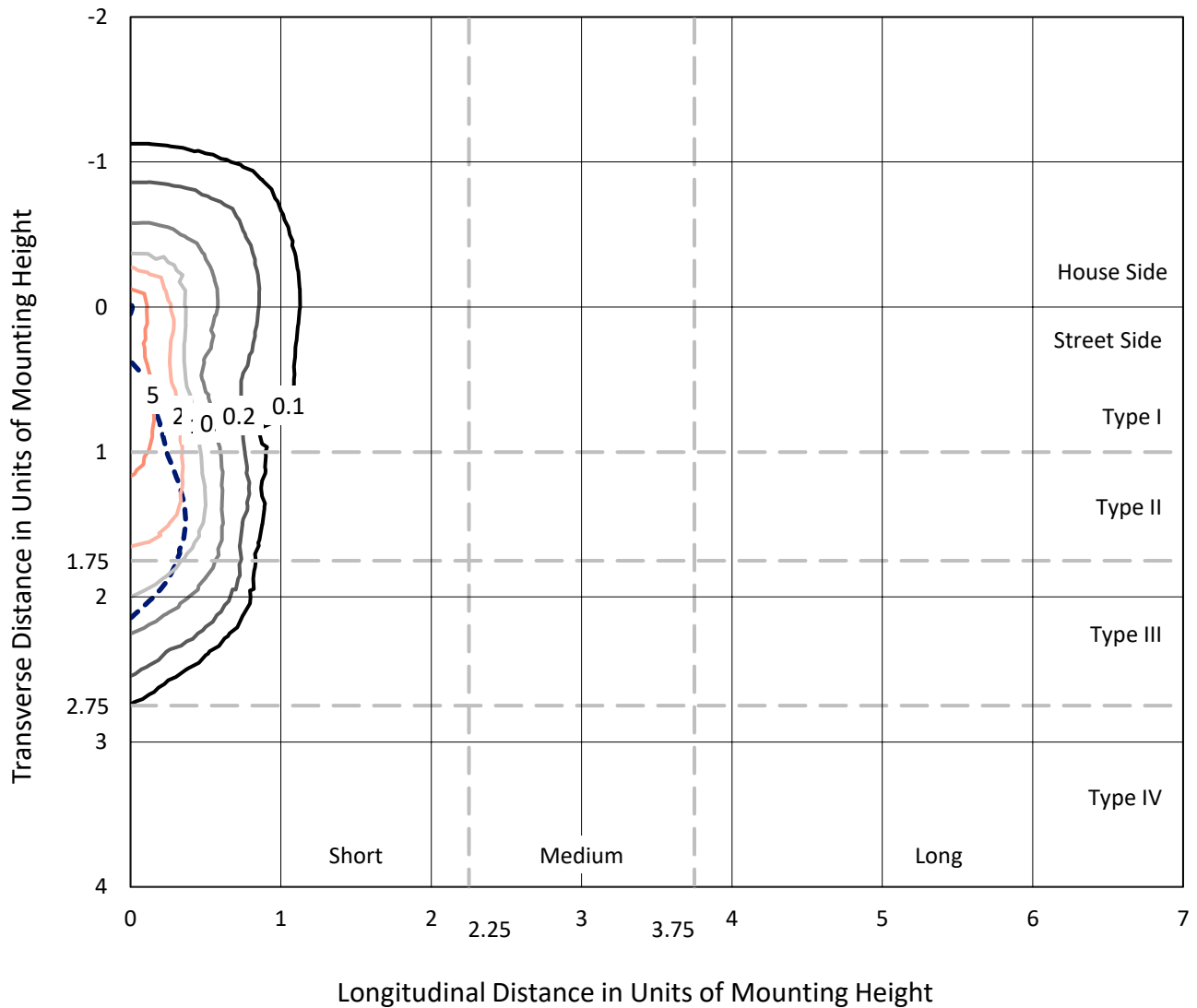
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

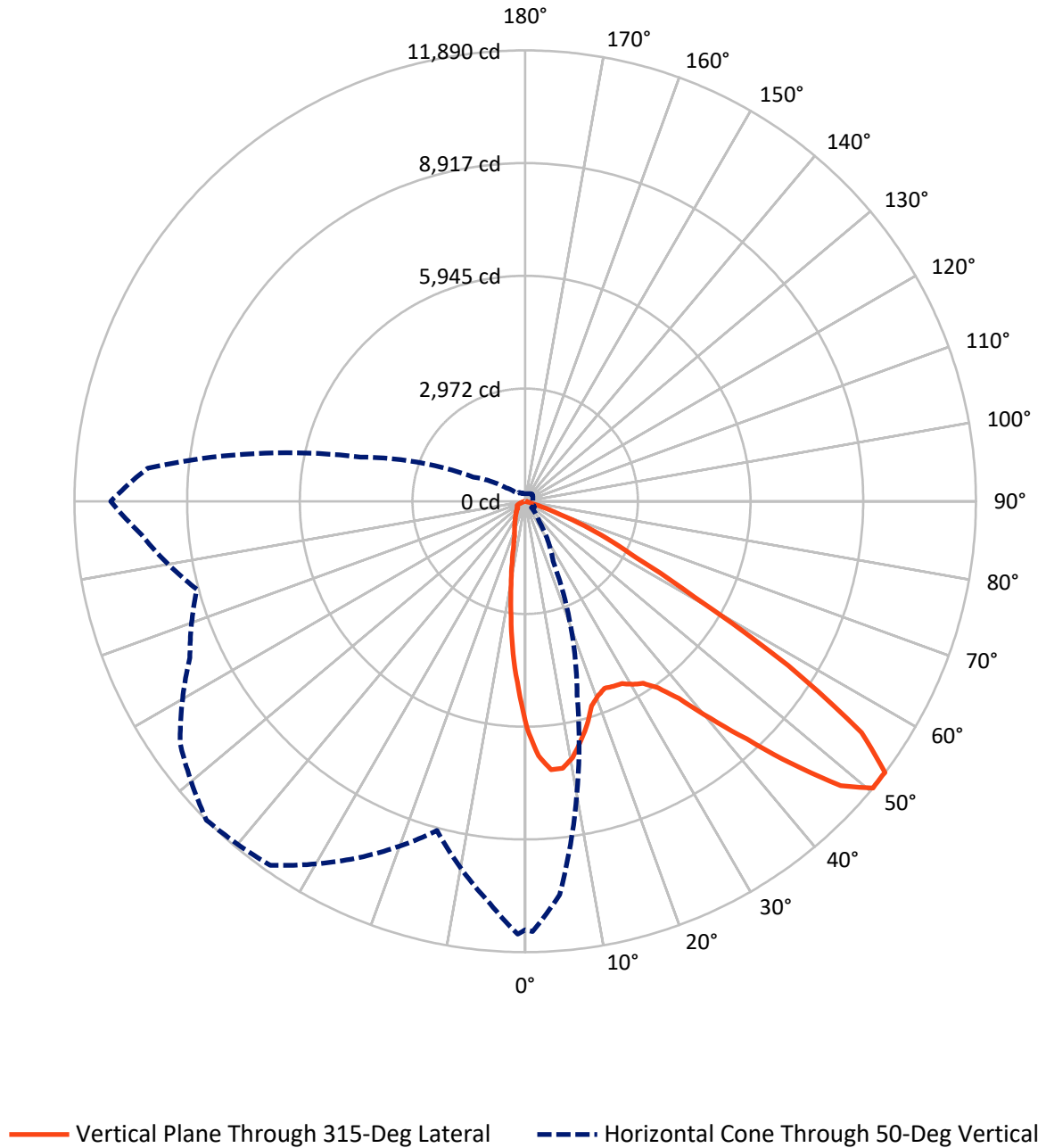
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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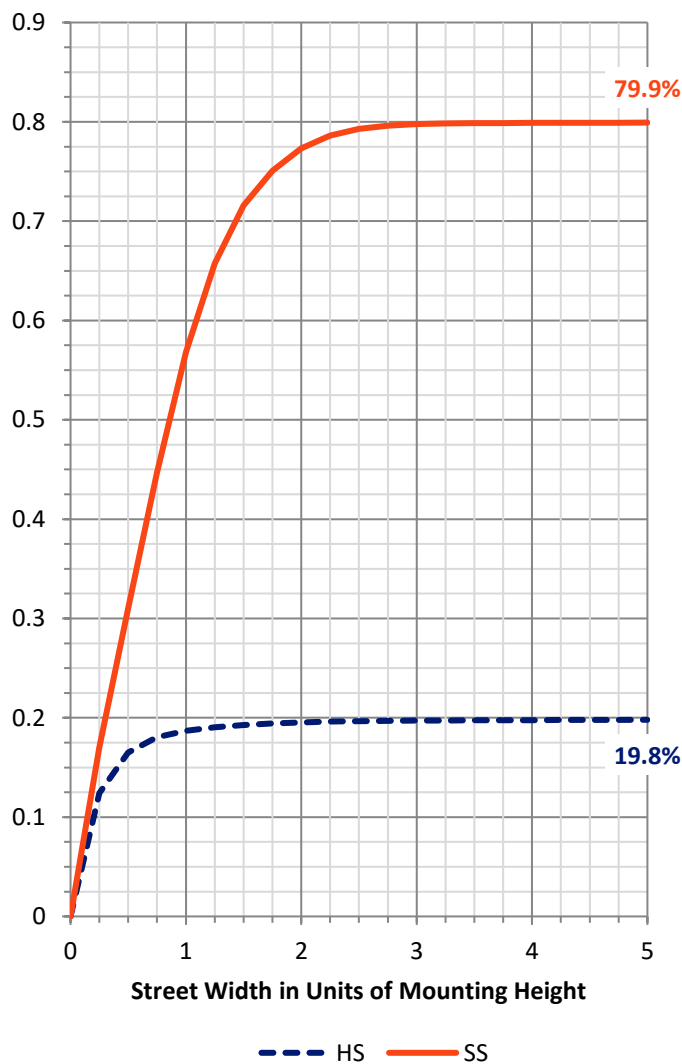
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2362.3	0.0	2362.3
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	9431.7	0.0	9431.7
	% Fixture	80.0	0.0	80.0
Total	Lumens	11794.0	0.0	11794.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.0	3.7
10°-20°	866.4	7.3
20°-30°	1301.7	11.0
30°-40°	1953.8	16.6
40°-50°	2745.9	23.3
50°-60°	2961.9	25.1
60°-70°	1375.2	11.7
70°-80°	129.4	1.1
80°-90°	23.8	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°	11794.0	100.0
0°-180°	11794.0	100.0

Coefficient of Utilization



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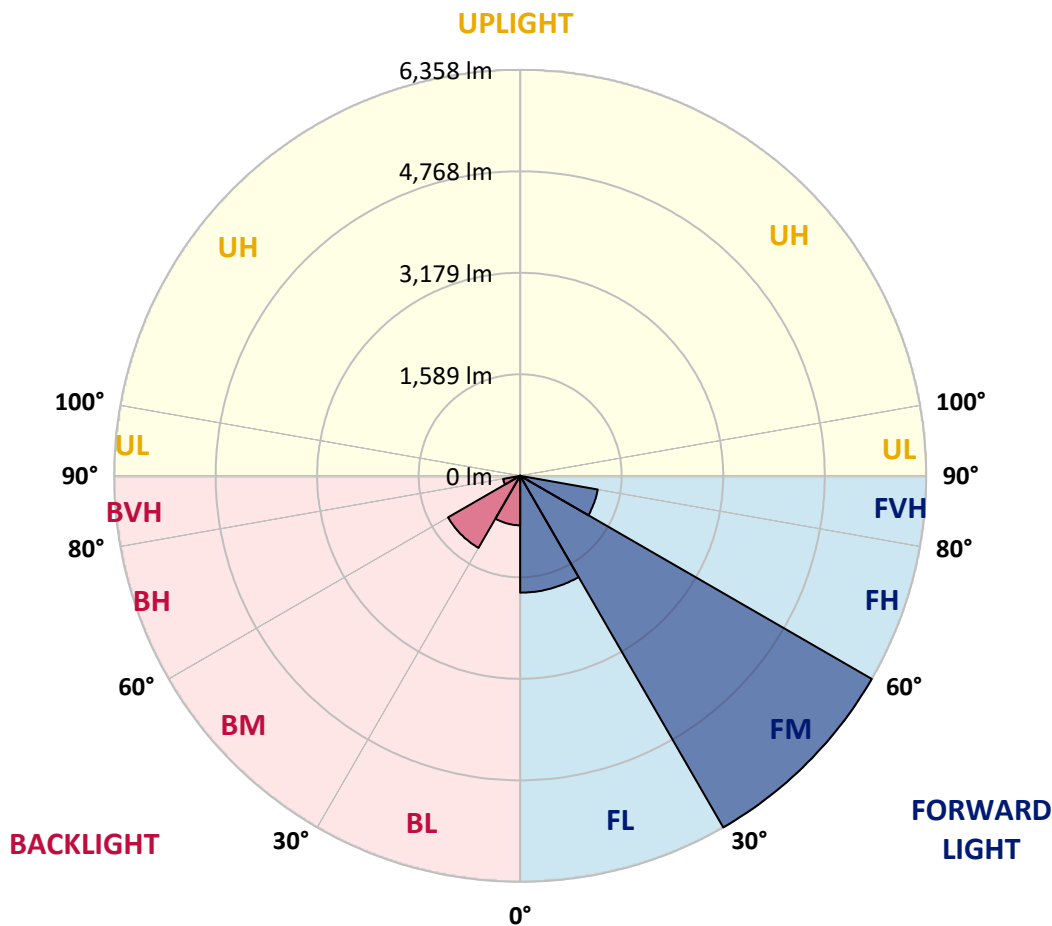
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1829.7	15.5			
FM (30°-60°)	6357.8	53.9			
FH (60°-80°)	1233.3	10.5			G1/1800
FVH (80°-90°)	10.7	0.1			G1/100
BL (0°-30°)	774.3	6.6	B2/1000		
BM (30°-60°)	1303.7	11.1	B2/2500		
BH (60°-80°)	271.3	2.3	B1/500		G1/500
BVH (80°-90°)	13.1	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°	5981.0	5981.0	5981.0	5981.0	5981.0	5981.0	5981.0	5981.0	5981.0	5981.0	5981.0
2.5°	6217.4	6121.4	5999.8	5899.1	5749.4	5447.5	5365.6	5267.3	5185.4	5075.5	4921.0
5°	5653.4	5623.0	5566.9	5187.8	4914.0	4549.0	4249.4	4123.1	3956.9	3821.2	3722.9
7.5°	5222.9	5101.2	4923.4	4541.9	4104.4	3713.6	3381.3	3187.1	2967.1	2892.2	2758.9
10°	4761.9	4790.0	4527.9	3992.0	3463.2	3147.3	2941.4	2754.2	2555.3	2424.2	2234.7
12.5°	4614.5	4523.2	4322.0	3659.8	3208.1	2913.3	2662.9	2431.3	2220.7	2010.1	1827.5
15°	4710.4	4570.0	4289.2	3589.6	3011.6	2644.2	2330.6	2017.1	1822.9	1553.8	1364.2
17.5°	5054.4	4942.1	4565.3	3664.4	2911.0	2386.8	1921.1	1598.2	1301.0	1057.7	961.7
20°	5627.7	5468.6	4995.9	3760.4	2761.2	2075.6	1558.4	1160.6	879.8	776.9	723.1
22.5°	6189.3	6102.7	5506.0	3945.2	2627.8	1799.5	1170.0	781.6	657.5	638.8	603.7
25°	7258.7	6998.9	6285.2	4279.9	2524.9	1539.7	882.2	629.5	556.9	542.9	547.6
27.5°	7895.2	7677.5	7006.0	4502.2	2410.2	1340.8	746.5	578.0	528.8	498.4	486.7
30°	8505.9	8253.2	7364.0	4633.2	2164.5	1130.2	662.2	554.6	542.9	498.4	484.4
32.5°	8976.2	8728.2	7881.1	4829.8	2063.9	994.5	545.2	432.9	402.5	397.8	439.9
35°	9697.0	9432.5	8323.4	4937.4	1986.7	924.3	472.7	386.1	351.0	337.0	339.3
37.5°	10368.5	10188.4	8732.9	4979.5	1904.8	903.2	423.5	346.3	315.9	306.5	304.2
40°	10930.1	10527.7	9121.3	5024.0	1869.7	863.5	393.1	315.9	294.8	280.8	280.8
42.5°	11187.5	10778.0	9556.6	4998.2	1860.3	800.3	393.1	290.2	273.8	259.7	257.4
45°	11131.4	10965.2	9750.8	4986.5	1860.3	737.1	358.0	283.1	259.7	241.0	236.3
47.5°	11276.5	11058.8	9994.1	5035.7	1822.9	692.6	301.9	297.2	245.7	222.3	217.6
50°	11302.2	11344.3	10417.7	5290.7	1741.0	636.5	236.3	292.5	236.3	201.2	196.6
52°	11470.7	11208.6	10546.4	5426.5	1654.4	594.4	198.9	250.4	227.0	187.2	182.5
52.5°	11239.0	11409.8	10576.8	5475.6	1663.7	566.3	191.9	245.7	222.3	187.2	175.5
55°	10979.3	11143.1	10452.8	5580.9	1525.7	444.6	149.8	177.8	201.2	163.8	156.8
57.5°	9542.5	9708.7	9083.9	5110.6	1242.5	313.6	124.0	133.4	177.8	152.1	145.1
60°	8482.5	8363.2	7623.7	4263.5	882.2	175.5	98.3	103.0	194.2	140.4	138.1
62.5°	7752.4	7497.4	6371.8	3292.4	538.2	117.0	77.2	79.6	149.8	131.0	131.0
65°	5735.3	5449.9	4233.1	1991.3	264.4	81.9	58.5	63.2	93.6	112.3	112.3
67.5°	3273.7	3163.7	2045.2	898.6	110.0	51.5	44.5	49.1	72.5	91.3	86.6
70°	1504.6	1350.2	786.2	189.5	51.5	35.1	35.1	39.8	58.5	67.9	63.2
72.5°	439.9	416.5	191.9	30.4	21.1	21.1	23.4	30.4	44.5	51.5	46.8
75°	32.8	21.1	14.0	9.4	9.4	14.0	18.7	30.4	44.5	49.1	39.8
77.5°	2.3	4.7	2.3	2.3	7.0	14.0	21.1	37.4	58.5	60.8	44.5
80°	2.3	2.3	0.0	2.3	7.0	14.0	23.4	42.1	65.5	70.2	37.4
82.5°	0.0	0.0	0.0	2.3	9.4	18.7	28.1	44.5	60.8	74.9	39.8
85°	0.0	0.0	0.0	2.3	14.0	25.7	32.8	11.7	7.0	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°	5981.0	5981.0	5981.0	5981.0	5981.0	5981.0	5981.0	5981.0	5981.0	5981.0	5981.0
2.5°	5031.0	4970.2	4946.8	4967.8	4960.8	4953.8	5082.5	5054.4	5049.7	5091.8	5082.5
5°	3776.8	3669.1	3964.0	3844.6	3968.6	4043.5	4057.6	4064.6	4151.2	4059.9	4179.2
7.5°	2691.0	2719.1	2716.7	2796.3	2939.0	3065.4	3140.3	3081.8	3077.1	3065.4	3013.9
10°	2150.5	2101.3	2092.0	2073.2	2117.7	2225.3	2316.6	2244.1	2192.6	2262.8	2241.7
12.5°	1757.3	1689.5	1652.0	1577.2	1579.5	1652.0	1652.0	1652.0	1703.5	1743.3	1773.7
15°	1347.8	1291.7	1291.7	1216.8	1200.4	1202.8	1240.2	1244.9	1326.8	1350.2	1361.9
17.5°	943.0	912.6	947.7	978.1	959.4	964.1	978.1	982.8	994.5	985.1	1008.5
20°	725.4	720.7	730.1	783.9	823.7	847.1	830.7	807.3	793.3	760.5	760.5
22.5°	615.4	624.8	641.2	685.6	737.1	751.1	732.4	678.6	636.5	631.8	634.1
25°	547.6	556.9	582.7	610.7	638.8	662.2	643.5	603.7	580.3	559.3	559.3
27.5°	505.4	510.1	524.2	545.2	568.6	587.3	580.3	559.3	533.5	524.2	503.1
30°	472.7	479.7	496.1	500.8	521.8	531.2	519.5	514.8	498.4	486.7	479.7
32.5°	456.3	454.0	465.7	470.3	472.7	479.7	465.7	472.7	470.3	451.6	444.6
35°	344.0	362.7	393.1	418.9	425.9	435.2	432.9	423.5	397.8	376.7	351.0
37.5°	308.9	320.6	337.0	358.0	386.1	397.8	393.1	369.7	339.3	325.3	320.6
40°	285.5	292.5	306.5	320.6	348.7	369.7	353.3	332.3	308.9	297.2	290.2
42.5°	264.4	266.8	273.8	287.8	308.9	341.6	313.6	285.5	276.1	269.1	264.4
45°	241.0	241.0	250.4	257.4	280.8	311.2	283.1	257.4	252.7	248.0	245.7
47.5°	222.3	224.6	229.3	238.7	257.4	278.5	259.7	238.7	227.0	224.6	220.0
50°	198.9	201.2	210.6	220.0	243.4	255.1	243.4	220.0	208.3	201.2	201.2
52°	180.2	187.2	196.6	215.3	231.7	250.4	236.3	210.6	196.6	189.5	184.9
52.5°	177.8	182.5	191.9	212.9	231.7	248.0	234.0	208.3	191.9	187.2	182.5
55°	159.1	166.1	182.5	208.3	229.3	248.0	229.3	205.9	182.5	170.8	166.1
57.5°	152.1	156.8	177.8	210.6	227.0	248.0	229.3	205.9	182.5	161.5	156.8
60°	145.1	154.4	177.8	203.6	224.6	250.4	231.7	203.6	177.8	152.1	152.1
62.5°	138.1	145.1	175.5	198.9	215.3	241.0	222.3	198.9	170.8	145.1	142.7
65°	119.3	131.0	154.4	166.1	184.9	208.3	189.5	173.2	149.8	128.7	126.4
67.5°	91.3	95.9	114.7	128.7	140.4	161.5	152.1	131.0	114.7	98.3	98.3
70°	63.2	67.9	81.9	88.9	100.6	112.3	105.3	88.9	77.2	67.9	65.5
72.5°	44.5	46.8	51.5	56.2	60.8	65.5	63.2	51.5	44.5	42.1	39.8
75°	35.1	39.8	42.1	39.8	37.4	35.1	35.1	30.4	25.7	23.4	23.4
77.5°	35.1	37.4	35.1	30.4	25.7	23.4	21.1	18.7	14.0	11.7	14.0
80°	30.4	30.4	30.4	25.7	23.4	21.1	18.7	16.4	14.0	11.7	11.7
82.5°	32.8	32.8	30.4	25.7	25.7	21.1	21.1	18.7	16.4	11.7	11.7
85°	0.0	0.0	0.0	4.7	11.7	21.1	21.1	18.7	16.4	14.0	14.0
87.5°	0.0	0.0	0.0	0.0	2.3	4.7	9.4	11.7	14.0	14.0	14.0
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°	5981.0	5981.0	5981.0	5981.0	5981.0	5981.0	5981.0	5981.0	5981.0	5981.0	5981.0
2.5°	5166.7	5255.6	5424.1	5592.6	5695.6	5817.2	6037.2	6154.2	6306.3	6381.2	6528.6
5°	4162.9	4373.5	4448.3	4640.2	4846.1	5052.1	5379.7	5740.0	6039.5	6245.5	6512.2
7.5°	3037.3	3086.5	3376.6	3505.3	3842.3	4216.7	4663.6	5117.6	5496.7	5833.6	6037.2
10°	2276.8	2457.0	2639.5	2885.2	3156.7	3542.8	3971.0	4471.7	4963.1	5300.1	5557.5
12.5°	1829.9	1972.6	2216.0	2480.4	2815.0	3070.1	3500.6	3996.7	4633.2	4963.1	5302.4
15°	1385.3	1567.8	1843.9	2117.7	2471.0	2740.1	3175.4	3800.2	4619.2	5073.1	5365.6
17.5°	1027.3	1151.3	1399.3	1705.9	2066.2	2445.3	3032.6	3779.1	4775.9	5316.5	5618.3
20°	786.2	828.4	985.1	1258.9	1649.7	2145.8	2801.0	3870.4	5239.3	5908.5	6215.0
22.5°	636.5	655.2	716.0	905.6	1284.7	1883.7	2691.0	3933.5	5761.1	6617.5	7027.0
25°	554.6	549.9	589.7	671.6	1003.9	1638.0	2550.6	4172.2	6399.9	7450.6	7817.9
27.5°	505.4	505.4	524.2	582.7	833.0	1478.9	2461.7	4343.0	7043.4	8183.0	8381.9
30°	479.7	484.4	538.2	556.9	692.6	1289.3	2314.3	4516.2	7658.8	8651.0	8924.8
32.5°	444.6	425.9	414.2	461.0	582.7	1118.5	2166.8	4588.7	8157.2	9224.3	9458.3
35°	341.6	332.3	346.3	381.4	500.8	973.4	2003.0	4670.6	8730.5	9888.8	9935.6
37.5°	308.9	306.5	315.9	346.3	421.2	847.1	1886.0	4649.6	9168.1	10438.7	10312.4
40°	285.5	285.5	292.5	318.2	376.7	758.2	1764.4	4630.9	9591.7	11056.5	10686.8
42.5°	266.8	266.8	278.5	294.8	358.0	699.7	1673.1	4605.1	9947.3	11435.6	10906.7
45°	241.0	248.0	266.8	283.1	362.7	659.9	1605.2	4506.8	10069.0	11430.9	10801.4
47.5°	222.3	231.7	250.4	273.8	327.6	648.2	1558.4	4420.3	10026.9	11150.1	10471.5
50°	201.2	212.9	238.7	278.5	278.5	624.8	1509.3	4497.5	9996.5	10932.5	10155.6
52°	187.2	196.6	229.3	271.4	243.4	575.6	1478.9	4647.2	10120.5	10904.4	10015.2
52.5°	184.9	191.9	222.3	266.8	231.7	566.3	1457.8	4682.3	10160.3	10834.2	10111.1
55°	163.8	173.2	203.6	208.3	189.5	465.7	1390.0	4761.9	9963.7	10696.1	10019.9
57.5°	154.4	159.1	180.2	170.8	163.8	351.0	1195.7	4637.9	8849.9	9500.4	9322.6
60°	142.7	147.4	168.5	133.4	138.1	245.7	898.6	4027.1	7106.6	7916.2	8236.8
62.5°	138.1	135.7	159.1	107.6	117.0	177.8	634.1	3273.7	5475.6	6516.9	7071.5
65°	121.7	119.3	114.7	91.3	100.6	138.1	379.1	2136.4	3858.7	4930.4	5234.6
67.5°	93.6	98.3	84.2	72.5	84.2	107.6	210.6	957.1	2024.1	2957.8	3203.5
70°	65.5	70.2	67.9	63.2	74.9	88.9	121.7	327.6	837.7	1553.8	1712.9
72.5°	39.8	49.1	51.5	53.8	65.5	77.2	86.6	105.3	222.3	549.9	683.3
75°	23.4	32.8	39.8	46.8	53.8	65.5	72.5	74.9	77.2	103.0	166.1
77.5°	16.4	23.4	35.1	44.5	53.8	65.5	77.2	81.9	77.2	72.5	77.2
80°	14.0	23.4	32.8	42.1	56.2	67.9	77.2	77.2	74.9	65.5	70.2
82.5°	14.0	23.4	35.1	44.5	53.8	65.5	74.9	77.2	70.2	65.5	67.9
85°	16.4	25.7	37.4	46.8	58.5	53.8	49.1	39.8	37.4	30.4	32.8
87.5°	16.4	23.4	23.4	25.7	28.1	28.1	28.1	25.7	21.1	18.7	18.7
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-SA5A-735-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5981.0	5981.0	5981.0	5981.0	5981.0	5981.0	5981.0	5981.0	5981.0	5981.0
2.5°	6535.6	6722.8	6715.8	6720.5	6692.4	6502.9	6411.6	6179.9	6245.5	6217.4
5°	6786.0	6970.9	7130.0	7111.3	6896.0	6638.6	6257.2	5896.8	5798.5	5653.4
7.5°	6535.6	6980.2	7127.6	7106.6	6788.3	6458.4	5850.0	5489.6	5318.8	5222.9
10°	6137.8	6652.6	6835.1	6872.6	6657.3	6156.5	5597.3	5019.3	4928.0	4761.9
12.5°	5910.8	6285.2	6397.6	6498.2	6423.3	6048.9	5405.4	4850.8	4724.5	4614.5
15°	5726.0	5948.3	5995.1	6109.7	6154.2	5953.0	5506.0	5033.3	4722.1	4710.4
17.5°	5896.8	5805.5	5634.7	5669.8	5810.2	5955.3	5765.8	5393.7	5091.8	5054.4
20°	6179.9	5777.5	5391.4	5477.9	5594.9	6039.5	6158.9	5896.8	5723.6	5627.7
22.5°	6505.2	5826.6	5314.1	5356.3	5578.6	6229.1	6795.4	6650.3	6327.4	6189.3
25°	7106.6	5962.3	5375.0	5403.1	5707.3	6493.5	7371.0	7478.6	7286.8	7258.7
27.5°	7693.9	6313.3	5508.4	5445.2	5772.8	6750.9	7719.7	8297.6	7960.7	7895.2
30°	7993.4	6598.8	5707.3	5599.6	6044.2	6907.7	7930.3	8831.2	8536.3	8505.9
32.5°	8452.1	6858.5	5861.7	5723.6	6196.3	7101.9	8323.4	9413.8	9128.3	8976.2
35°	8644.0	7141.7	6201.0	6039.5	6631.6	7373.3	8524.6	9933.3	9844.4	9697.0
37.5°	9013.7	7445.9	6601.1	6591.8	7158.1	7726.7	8887.3	10640.0	10623.6	10368.5
40°	9044.1	7778.2	7232.9	7527.8	7972.4	8342.1	9205.6	10836.5	11103.3	10930.1
42.5°	9090.9	8360.8	8325.7	8569.1	8950.5	8870.9	9217.3	10883.3	11290.5	11187.5
45°	9112.0	8943.5	9437.2	9886.5	10045.6	9563.6	9107.3	10794.4	11388.8	11131.4
47.5°	8943.5	9444.2	10335.8	11203.9	11250.7	9989.5	9060.5	10703.2	11447.3	11276.5
50°	8966.9	9757.8	11112.7	11889.5	11718.7	10366.2	8987.9	10647.0	11416.9	11302.2
52°	8910.7	9764.8	11222.6	11875.5	11756.2	10157.9	8863.9	10431.7	11388.8	11470.7
52.5°	8973.9	9722.7	11108.0	11884.9	11730.4	10260.9	8847.5	10551.1	11405.2	11239.0
55°	8756.3	9221.9	10436.4	10766.3	10742.9	9313.2	8344.4	10155.6	10976.9	10979.3
57.5°	7913.9	7993.4	8185.3	8178.3	8070.7	7321.9	7137.0	9338.9	9785.9	9542.5
60°	6973.2	5852.3	5335.2	5124.6	5005.3	4883.6	6313.3	8543.3	8585.5	8482.5
62.5°	6025.5	4057.6	3369.6	3311.1	3339.2	3783.8	6102.7	8227.4	7974.7	7752.4
65°	4862.5	2957.8	2447.6	2370.4	2644.2	3123.9	4939.7	6308.6	5920.2	5735.3
67.5°	3053.7	2157.5	1654.4	1509.3	1839.2	2150.5	3245.6	3964.0	3528.7	3273.7
70°	1811.2	1205.1	748.8	671.6	755.8	1146.6	1818.2	1977.3	1635.7	1504.6
72.5°	713.7	442.3	208.3	177.8	184.9	402.5	669.2	652.9	493.7	439.9
75°	191.9	133.4	72.5	58.5	49.1	74.9	107.6	70.2	25.7	32.8
77.5°	88.9	79.6	63.2	49.1	37.4	28.1	14.0	4.7	4.7	2.3
80°	77.2	67.9	58.5	49.1	37.4	23.4	11.7	2.3	2.3	2.3
82.5°	72.5	63.2	53.8	44.5	35.1	23.4	11.7	2.3	0.0	0.0
85°	30.4	39.8	44.5	42.1	37.4	23.4	11.7	2.3	0.0	0.0
87.5°	16.4	14.0	11.7	9.4	7.0	4.7	4.7	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)