

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: P529847

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529847  
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-SA5A-735-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 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

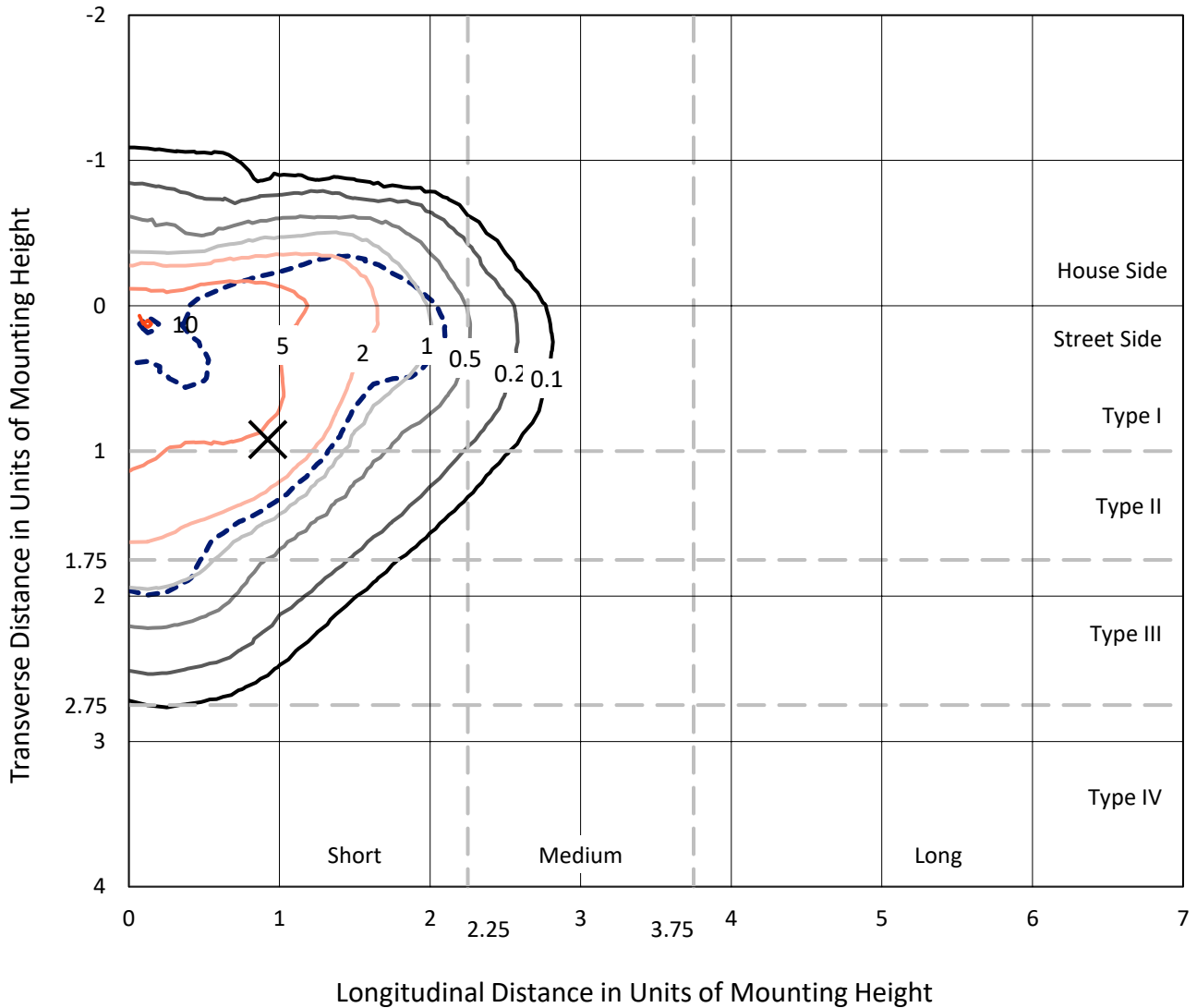
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

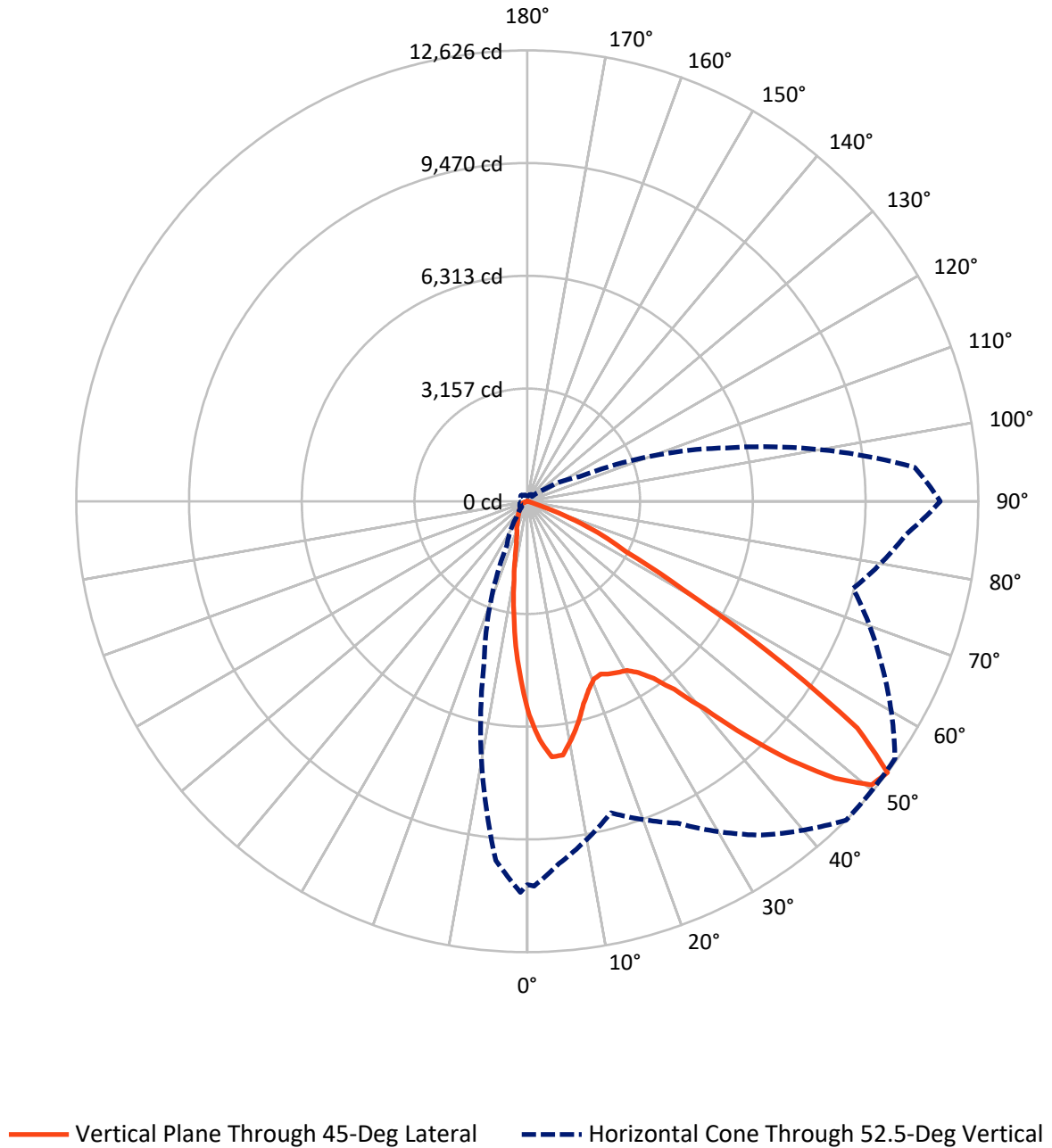
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2393.6	0.0	2393.6
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	9400.4	0.0	9400.4
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	11794.0	0.0	11794.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	436.1	3.7
10°-20°	860.4	7.3
20°-30°	1309.5	11.1
30°-40°	1957.1	16.6
40°-50°	2787.1	23.6
50°-60°	2996.1	25.4
60°-70°	1327.6	11.3
70°-80°	107.4	0.9
80°-90°	12.5	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°	11794.0	100.0
0°-180°	11794.0	100.0

**Coefficient of Utilization**

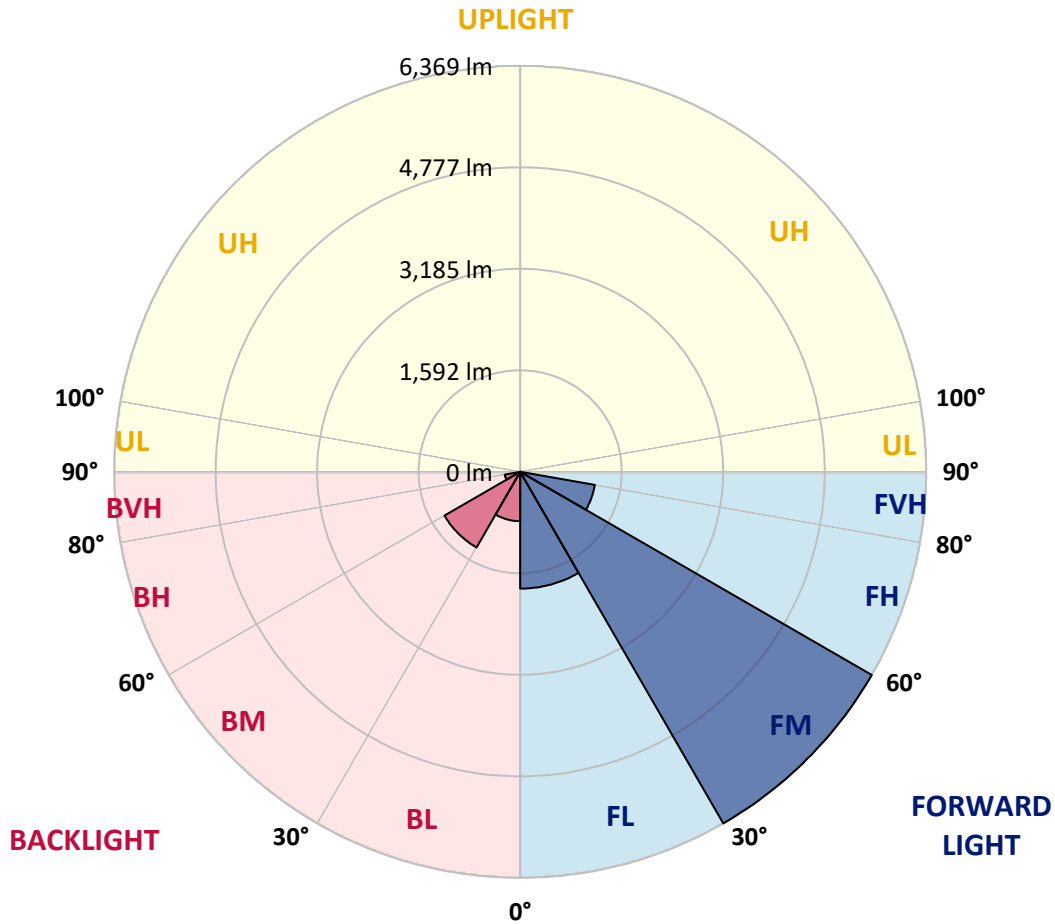


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1831.9	15.5			
FM (30°-60°)	6369.1	54.0			
FH (60°-80°)	1190.2	10.1			G1/1800
FVH (80°-90°)	9.3	0.1			G0/10
BL (0°-30°)	774.2	6.6	B2/1000		
BM (30°-60°)	1371.3	11.6	B2/2500		
BH (60°-80°)	244.9	2.1	B1/500		G1/500
BVH (80°-90°)	3.2	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°	5980.1	5980.1	5980.1	5980.1	5980.1	5980.1	5980.1	5980.1	5980.1	5980.1	5980.1
2.5°	6328.1	6346.6	6448.7	6576.3	6643.5	6796.6	6689.9	6717.8	6659.8	6455.6	6295.6
5°	6135.5	6133.2	6263.1	6578.6	6877.8	7181.7	7191.0	7028.6	6743.3	6430.1	5982.4
7.5°	5555.6	5646.1	5780.6	6284.0	6838.4	7065.7	7174.7	6984.5	6546.1	6098.4	5613.6
10°	5117.2	5163.6	5390.9	5998.7	6404.6	6708.5	6775.8	6666.7	6330.4	5771.3	5228.5
12.5°	4864.3	4887.5	5154.3	5664.6	6093.8	6318.8	6351.3	6402.3	6161.0	5636.8	4985.0
15°	4866.7	4885.2	5244.8	5671.6	5840.9	5780.6	5887.3	5885.0	5989.4	5611.3	5189.1
17.5°	5216.9	5237.8	5562.6	5773.7	5699.4	5557.9	5551.0	5657.7	5878.0	5929.1	5497.6
20°	5820.0	5868.8	6107.7	6096.1	5678.5	5393.2	5314.4	5395.5	5908.2	6198.2	6119.3
22.5°	6631.9	6699.2	6866.2	6546.1	5773.7	5281.9	5256.4	5414.1	6107.7	6798.9	6824.5
25°	7573.7	7687.4	7768.6	7358.0	6112.3	5474.4	5353.8	5625.2	6376.8	7450.8	7722.2
27.5°	8197.7	8316.0	8297.5	7710.6	6339.7	5525.5	5423.4	5676.2	6611.1	7606.2	8190.8
30°	8684.8	8756.7	8886.7	7900.8	6567.0	5669.3	5495.3	5892.0	6687.6	7875.3	8756.7
32.5°	9253.2	9301.9	9311.2	8237.1	6917.3	5850.2	5718.0	6161.0	7026.3	8132.8	9257.8
35°	9826.1	9898.0	9747.2	8652.4	7133.0	6186.6	6089.1	6627.3	7297.7	8399.5	9809.9
37.5°	10447.8	10484.9	10137.0	8824.0	7441.5	6734.0	6680.6	7130.7	7768.6	8882.0	10422.3
40°	10969.7	11004.5	10552.2	9035.1	7766.3	7499.5	7636.3	8091.0	8408.8	9195.2	10728.5
42.5°	11259.7	11340.9	10691.4	8919.1	8418.1	8367.0	8974.8	9134.9	9151.1	9283.3	11002.2
45°	11338.5	11301.4	10461.7	9014.2	8988.7	9793.6	10345.7	10556.8	9888.7	9445.7	11071.8
47.5°	10974.4	11023.1	10123.0	8930.7	9738.0	10874.6	11589.1	11981.1	10438.5	9304.2	10900.1
50°	10679.8	10617.1	10014.0	8870.4	9939.8	11384.9	12486.8	12574.9	10944.2	9478.2	10712.2
52.5°	10737.7	10777.2	10188.0	9030.5	9944.4	11415.1	12626.0	12565.6	10960.4	9438.7	10645.0
55°	10860.7	10686.7	10113.8	8677.9	9278.7	10573.1	11206.3	11113.5	10116.1	9018.9	10480.3
57.5°	9371.5	9640.5	9299.6	7747.7	7615.5	7965.7	7954.1	8239.5	7545.9	7761.6	9540.8
60°	7606.2	7652.6	7780.2	6627.3	5270.3	5149.7	4982.6	4801.7	5077.8	6636.6	8677.9
62.5°	6689.9	6634.3	7088.9	6028.8	3720.7	3115.3	3087.5	3198.8	3917.9	6330.4	8139.7
65°	4862.0	4931.6	5261.0	4678.8	2792.9	2377.7	2335.9	2665.3	3171.0	5073.1	6212.1
67.5°	2969.2	3103.7	3133.9	2885.7	1895.2	1505.5	1445.2	1744.4	2289.5	3282.3	3641.9
70°	1370.9	1533.3	1686.4	1575.1	1097.2	619.4	584.6	733.0	1155.2	1888.2	1932.3
72.5°	415.2	417.5	584.6	610.1	354.9	139.2	122.9	162.4	392.0	624.0	656.5
75°	30.2	32.5	78.9	90.5	67.3	34.8	37.1	44.1	83.5	139.2	104.4
77.5°	2.3	2.3	2.3	11.6	20.9	23.2	30.2	34.8	44.1	51.0	46.4
80°	2.3	0.0	2.3	9.3	16.2	23.2	27.8	32.5	34.8	39.4	34.8
82.5°	0.0	0.0	0.0	7.0	16.2	23.2	25.5	34.8	39.4	46.4	39.4
85°	0.0	0.0	0.0	7.0	16.2	25.5	23.2	11.6	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°	5980.1	5980.1	5980.1	5980.1	5980.1	5980.1	5980.1	5980.1	5980.1	5980.1	5980.1
2.5°	6323.4	6233.0	6026.5	5922.1	5676.2	5641.4	5400.2	5360.8	5279.6	5235.5	5128.8
5°	5785.3	5676.2	5339.9	5056.9	4727.5	4497.8	4321.5	4161.5	4068.7	3982.9	4022.3
7.5°	5346.8	5029.0	4655.6	4182.4	3801.9	3556.1	3287.0	3066.6	2936.7	2848.6	2869.4
10°	4887.5	4681.1	4161.5	3630.3	3171.0	2997.0	2785.9	2616.6	2433.3	2275.6	2201.4
12.5°	4743.7	4437.5	3785.7	3245.2	2897.3	2727.9	2486.7	2291.8	2057.5	1865.0	1797.7
15°	4769.2	4474.6	3683.6	3106.0	2695.5	2403.2	2115.5	1874.3	1616.8	1482.3	1412.7
17.5°	5184.5	4674.1	3750.9	2959.9	2414.8	2008.8	1653.9	1347.7	1155.2	1016.0	985.9
20°	5694.8	5105.6	3894.7	2853.2	2185.1	1598.3	1208.5	944.1	784.0	760.9	753.9
22.5°	6441.7	5810.8	4203.2	2781.3	1904.4	1245.7	828.1	686.6	642.5	637.9	640.2
25°	7485.6	6694.6	4539.6	2721.0	1693.4	960.3	677.3	582.2	568.3	561.4	573.0
27.5°	7937.9	7228.1	4718.2	2591.1	1500.8	865.2	668.1	577.6	538.2	526.6	533.5
30°	8496.9	7583.0	4998.9	2368.4	1217.8	712.1	624.0	628.6	610.1	552.1	533.5
32.5°	9239.2	8026.1	5140.4	2210.6	1087.9	589.2	457.0	419.9	468.6	477.9	494.1
35°	9714.8	8476.1	5212.3	2117.9	1020.7	503.4	387.4	352.6	341.0	343.3	352.6
37.5°	10598.6	9083.8	5302.8	2020.4	969.6	438.4	350.3	317.8	301.6	301.6	310.8
40°	11127.5	9566.3	5425.7	1967.1	918.6	399.0	317.8	290.0	276.0	276.0	280.7
42.5°	11259.7	9805.2	5384.0	1948.5	860.6	389.7	290.0	269.1	252.8	250.5	248.2
45°	11496.3	10169.4	5390.9	1927.6	800.3	354.9	273.7	250.5	227.3	225.0	222.7
47.5°	11756.1	10431.6	5404.8	1846.5	742.3	296.9	285.3	232.0	204.1	199.5	199.5
50°	11533.4	10640.3	5525.5	1765.3	668.1	241.2	280.7	218.0	180.9	174.0	176.3
52.5°	11561.2	10886.2	5780.6	1651.6	575.3	192.5	227.3	206.5	164.7	153.1	155.4
55°	11115.9	10626.4	5815.4	1531.0	450.0	148.5	174.0	180.9	139.2	134.5	134.5
57.5°	9568.6	8998.0	5131.1	1241.0	296.9	122.9	125.3	157.7	120.6	116.0	118.3
60°	8188.4	7223.4	4129.0	818.8	185.6	97.4	90.5	160.1	106.7	104.4	111.3
62.5°	7464.7	5936.0	3131.6	508.0	127.6	74.2	62.6	129.9	92.8	92.8	102.1
65°	5393.2	3987.5	1820.9	266.8	90.5	58.0	46.4	74.2	76.5	78.9	83.5
67.5°	3340.3	2013.5	767.8	129.9	60.3	39.4	30.2	46.4	51.0	51.0	55.7
70°	1649.3	802.6	255.2	74.2	46.4	32.5	20.9	25.5	25.5	23.2	25.5
72.5°	510.3	241.2	65.0	46.4	32.5	20.9	11.6	9.3	4.6	0.0	2.3
75°	58.0	46.4	41.8	32.5	20.9	9.3	2.3	0.0	0.0	0.0	0.0
77.5°	34.8	39.4	39.4	32.5	20.9	7.0	0.0	0.0	0.0	0.0	0.0
80°	27.8	30.2	32.5	30.2	18.6	9.3	0.0	0.0	0.0	0.0	0.0
82.5°	34.8	39.4	44.1	39.4	25.5	11.6	4.6	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	7.0	2.3	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°	5980.1	5980.1	5980.1	5980.1	5980.1	5980.1	5980.1	5980.1	5980.1	5980.1	5980.1
2.5°	5084.7	5033.7	5105.6	4998.9	4996.6	4998.9	4968.7	4940.9	4985.0	5103.3	5114.9
5°	3880.8	3989.8	4024.6	4138.3	4075.7	3982.9	4001.4	3938.8	4091.9	4159.2	4105.8
7.5°	2825.4	2818.4	3052.7	3066.6	3096.8	3099.1	3094.4	2971.5	2846.2	2874.1	2957.6
10°	2192.1	2073.8	2187.4	2175.8	2250.1	2229.2	2259.4	2127.1	2171.2	2171.2	2224.6
12.5°	1786.1	1660.9	1640.0	1609.9	1640.0	1651.6	1663.2	1637.7	1711.9	1746.7	1783.8
15°	1364.0	1294.4	1275.8	1217.8	1227.1	1259.6	1287.4	1299.0	1275.8	1329.2	1333.8
17.5°	990.5	988.2	999.8	997.5	988.2	981.2	978.9	948.7	939.5	944.1	962.7
20°	751.6	770.1	809.6	849.0	869.9	844.4	809.6	758.5	737.7	742.3	744.6
22.5°	642.5	670.4	723.7	767.8	788.7	742.3	679.7	635.6	626.3	624.0	621.7
25°	582.2	614.7	654.1	668.1	665.7	637.9	591.5	573.0	568.3	563.7	542.8
27.5°	549.8	561.4	568.3	584.6	591.5	573.0	561.4	533.5	528.9	528.9	515.0
30°	531.2	524.2	533.5	521.9	531.2	517.3	519.6	519.6	508.0	512.6	512.6
32.5°	494.1	496.4	496.4	473.2	480.2	463.9	480.2	494.1	496.4	498.7	517.3
35°	361.9	403.6	424.5	424.5	431.5	419.9	417.5	401.3	380.4	359.5	350.3
37.5°	317.8	334.0	361.9	378.1	389.7	380.4	359.5	334.0	322.4	313.2	303.9
40°	283.0	296.9	315.5	334.0	357.2	345.6	313.2	301.6	287.6	287.6	278.4
42.5°	255.2	262.1	273.7	301.6	327.1	303.9	280.7	271.4	264.4	262.1	259.8
45°	229.6	232.0	243.6	266.8	296.9	273.7	250.5	238.9	241.2	243.6	241.2
47.5°	206.5	211.1	218.0	245.9	264.4	252.8	227.3	220.4	220.4	220.4	222.7
50°	178.6	190.2	204.1	227.3	241.2	234.3	213.4	204.1	199.5	199.5	201.8
52.5°	160.1	169.3	187.9	215.7	234.3	222.7	201.8	187.9	178.6	176.3	180.9
55°	139.2	155.4	185.6	206.5	232.0	220.4	197.2	180.9	164.7	162.4	162.4
57.5°	125.3	150.8	178.6	204.1	225.0	215.7	197.2	176.3	155.4	153.1	153.1
60°	118.3	146.1	174.0	197.2	225.0	211.1	194.9	171.7	148.5	148.5	146.1
62.5°	111.3	136.9	164.7	187.9	215.7	204.1	187.9	164.7	141.5	141.5	136.9
65°	92.8	118.3	136.9	157.7	187.9	176.3	160.1	143.8	125.3	120.6	122.9
67.5°	65.0	81.2	99.7	120.6	139.2	134.5	127.6	116.0	99.7	97.4	95.1
70°	32.5	44.1	60.3	81.2	97.4	92.8	88.1	78.9	69.6	67.3	67.3
72.5°	4.6	13.9	25.5	37.1	51.0	53.4	51.0	48.7	46.4	44.1	46.4
75°	0.0	0.0	0.0	9.3	20.9	25.5	30.2	34.8	34.8	30.2	37.1
77.5°	0.0	0.0	0.0	0.0	2.3	11.6	23.2	30.2	37.1	32.5	44.1
80°	0.0	0.0	0.0	0.0	2.3	13.9	23.2	32.5	37.1	32.5	46.4
82.5°	0.0	0.0	0.0	0.0	2.3	16.2	23.2	30.2	34.8	32.5	41.8
85°	0.0	0.0	0.0	0.0	7.0	13.9	9.3	4.6	2.3	2.3	7.0
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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CATALOG NUMBER: GALN-SA5A-735-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5980.1	5980.1	5980.1	5980.1	5980.1	5980.1	5980.1	5980.1	5980.1	5980.1
2.5°	5179.8	5344.5	5520.8	5588.1	5796.9	5954.6	6061.3	6290.9	6325.7	6328.1
5°	4161.5	4245.0	4546.6	4688.1	4998.9	5240.1	5497.6	5868.8	6117.0	6135.5
7.5°	2957.6	3189.5	3317.1	3686.0	4068.7	4446.8	4829.6	5261.0	5548.6	5555.6
10°	2380.0	2530.8	2758.1	3034.1	3356.6	3741.6	4252.0	4753.0	5045.3	5117.2
12.5°	1916.0	2180.5	2440.3	2725.6	2971.5	3261.5	3811.2	4479.3	4720.5	4864.3
15°	1475.3	1716.6	2022.8	2356.8	2635.1	3022.5	3648.8	4412.0	4818.0	4866.7
17.5°	1087.9	1303.7	1586.7	1902.1	2319.7	2869.4	3676.7	4753.0	5135.7	5216.9
20°	781.7	907.0	1129.7	1496.2	2027.4	2690.8	3704.5	5098.6	5680.9	5820.0
22.5°	619.4	670.4	816.5	1141.3	1700.3	2502.9	3901.7	5759.7	6430.1	6631.9
25°	538.2	566.0	635.6	900.0	1493.9	2484.4	4217.2	6553.1	7427.6	7573.7
27.5°	519.6	524.2	584.6	825.8	1382.5	2361.4	4337.8	7116.7	8049.3	8197.7
30°	547.4	621.7	626.3	698.2	1176.1	2117.9	4400.4	7661.9	8575.8	8684.8
32.5°	473.2	450.0	466.3	540.5	1034.6	1976.4	4518.7	8137.4	9176.6	9253.2
35°	329.4	345.6	382.7	468.6	904.7	1827.9	4548.9	8661.6	9747.2	9826.1
37.5°	303.9	313.2	343.3	399.0	795.6	1744.4	4507.1	9044.4	10338.8	10447.8
40°	283.0	294.6	310.8	361.9	714.5	1651.6	4449.1	9390.0	10700.6	10969.7
42.5°	266.8	276.0	290.0	345.6	644.9	1558.8	4367.9	9877.1	11025.4	11259.7
45°	248.2	262.1	278.4	336.4	605.4	1496.2	4307.6	9847.0	11213.3	11338.5
47.5°	229.6	252.8	271.4	313.2	593.8	1466.0	4333.1	9733.3	11060.2	10974.4
50°	211.1	241.2	273.7	259.8	566.0	1405.7	4363.3	9888.7	10696.0	10679.8
52.5°	194.9	229.6	255.2	213.4	503.4	1347.7	4655.6	10092.9	10953.5	10737.7
55°	171.7	206.5	204.1	171.7	408.3	1303.7	4885.2	10097.5	10779.5	10860.7
57.5°	155.4	183.3	160.1	143.8	301.6	1090.2	4511.8	8466.8	9227.6	9371.5
60°	143.8	178.6	120.6	113.7	197.2	786.4	3938.8	6557.7	7334.8	7606.2
62.5°	132.2	169.3	95.1	92.8	136.9	559.0	3238.3	5488.3	6321.1	6689.9
65°	116.0	120.6	76.5	71.9	97.4	301.6	1971.7	3778.7	4725.2	4862.0
67.5°	95.1	92.8	62.6	58.0	65.0	146.1	869.9	1892.8	2739.5	2969.2
70°	76.5	76.5	53.4	46.4	46.4	67.3	227.3	753.9	1238.7	1370.9
72.5°	55.7	58.0	41.8	37.1	34.8	32.5	37.1	150.8	324.8	415.2
75°	48.7	51.0	41.8	32.5	25.5	20.9	16.2	13.9	18.6	30.2
77.5°	53.4	53.4	44.1	30.2	23.2	16.2	9.3	4.6	4.6	2.3
80°	67.3	69.6	58.0	39.4	27.8	18.6	11.6	4.6	2.3	2.3
82.5°	71.9	78.9	65.0	48.7	34.8	20.9	11.6	2.3	0.0	0.0
85°	18.6	30.2	51.0	44.1	34.8	20.9	11.6	2.3	0.0	0.0
87.5°	0.0	2.3	7.0	7.0	9.3	9.3	7.0	2.3	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)