

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: P528989

Luminaire Tested: **GALN-SA4A-760-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528989  
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-SA4A-760-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5700K, 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: 10001 lumens  
Efficiency: N/A  
Efficacy: 82.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

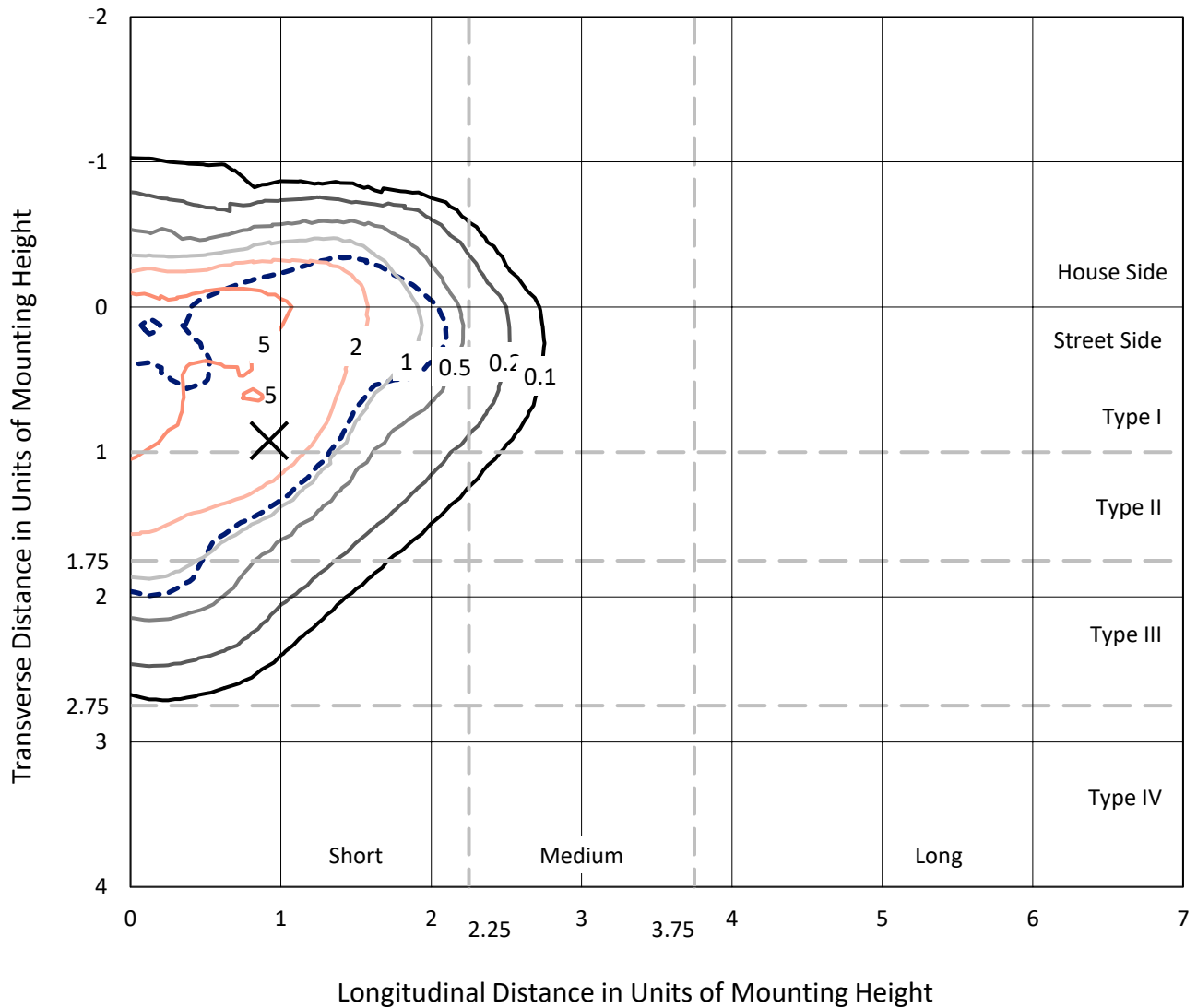
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

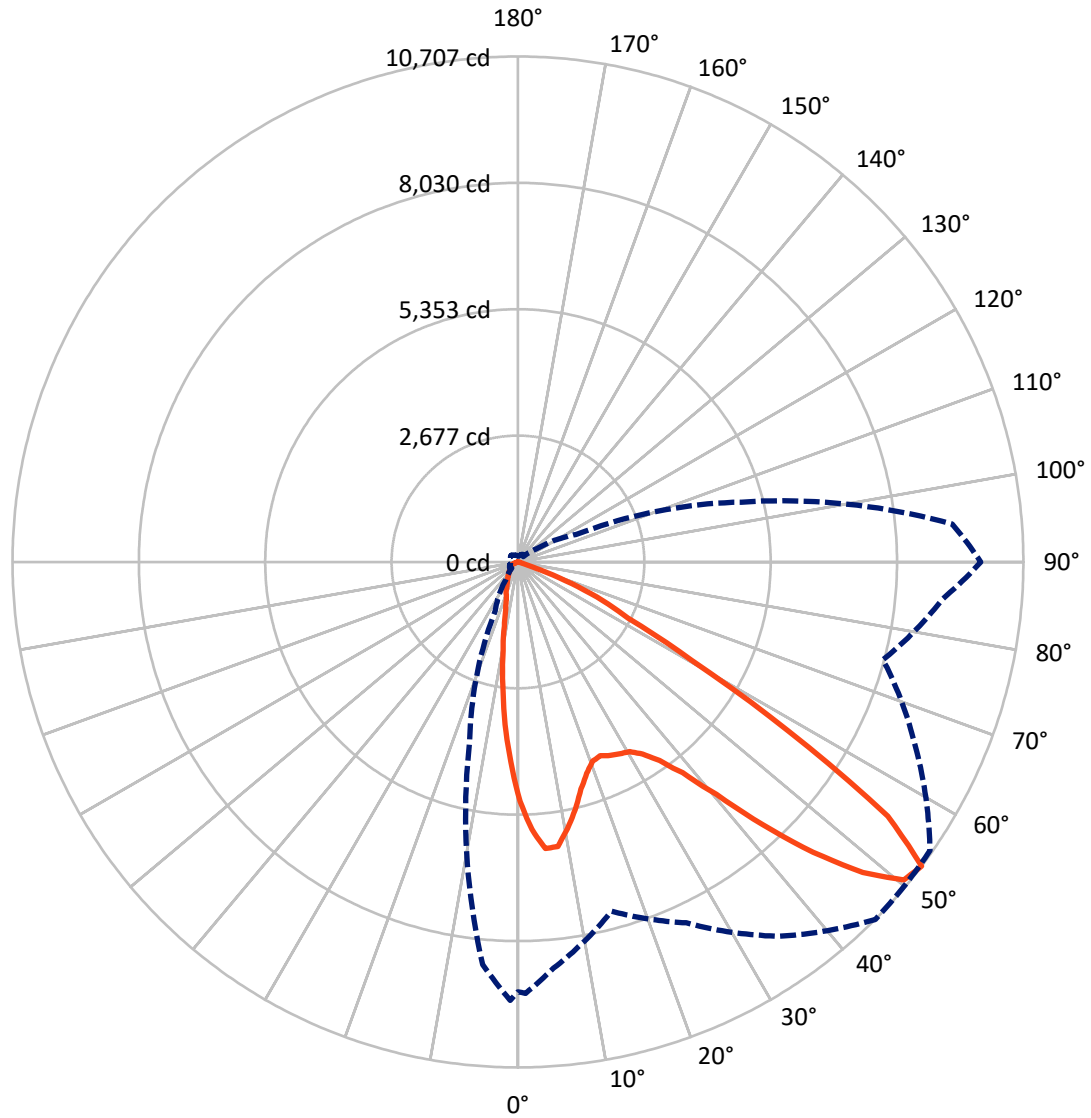
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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
<b>House Side</b>	Lumens	2029.7	0.0	2029.7
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	7971.3	0.0	7971.3
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	10001.0	0.0	10001.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	369.8	3.7
10°-20°	729.6	7.3
20°-30°	1110.4	11.1
30°-40°	1659.6	16.6
40°-50°	2363.4	23.6
50°-60°	2540.6	25.4
60°-70°	1125.8	11.3
70°-80°	91.1	0.9
80°-90°	10.6	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°	10001.0	100.0
0°-180°	10001.0	100.0

**Coefficient of Utilization**



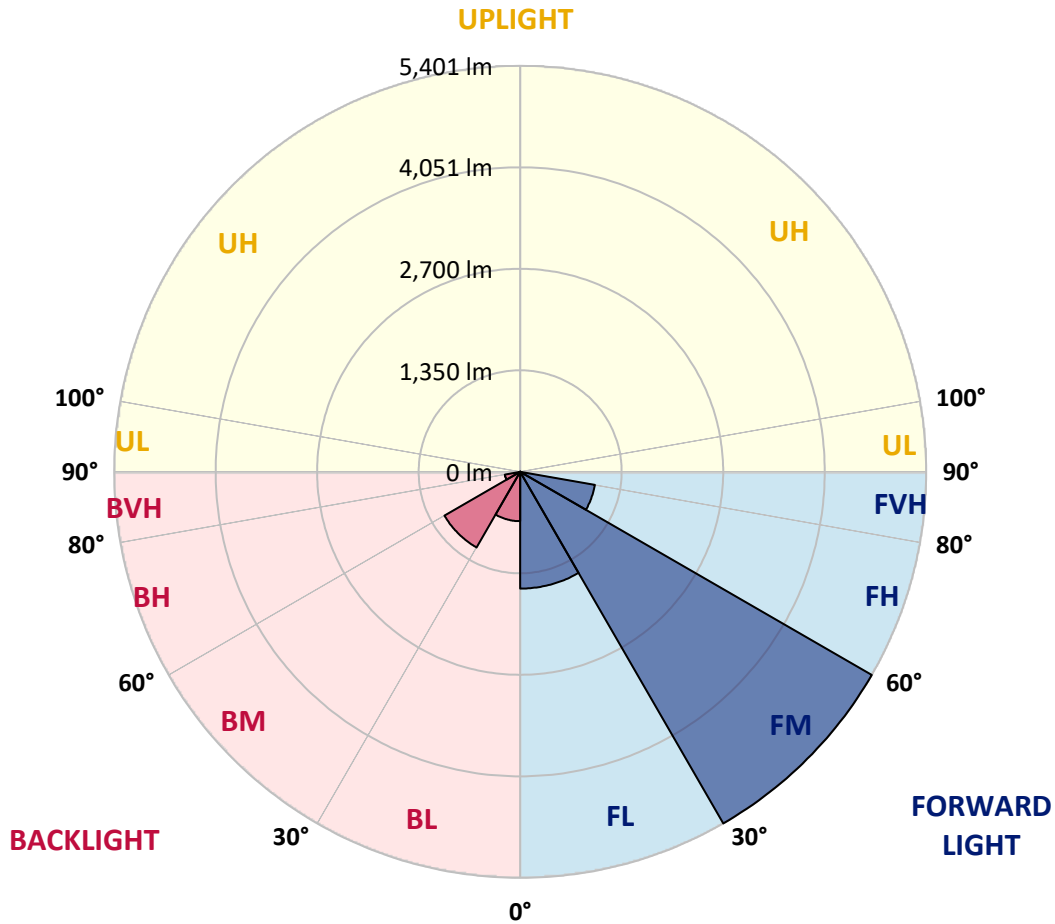
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1553.4	15.5			
FM (30°-60°)	5400.9	54.0			
FH (60°-80°)	1009.2	10.1			G1/1800
FVH (80°-90°)	7.9	0.1			G0/10
BL (0°-30°)	656.5	6.6	B2/1000		
BM (30°-60°)	1162.8	11.6	B2/2500		
BH (60°-80°)	207.7	2.1	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0
2.5°	5366.0	5381.8	5468.3	5576.5	5633.5	5763.4	5672.9	5696.5	5647.3	5474.2	5338.5
5°	5202.8	5200.8	5310.9	5578.5	5832.2	6089.9	6097.8	5960.1	5718.1	5452.6	5072.9
7.5°	4711.0	4787.7	4901.8	5328.7	5798.8	5991.5	6084.0	5922.7	5550.9	5171.3	4760.2
10°	4339.2	4378.6	4571.3	5086.7	5430.9	5688.6	5745.7	5653.2	5368.0	4893.9	4433.7
12.5°	4124.8	4144.5	4370.7	4803.5	5167.4	5358.2	5385.7	5429.0	5224.4	4779.9	4227.1
15°	4126.8	4142.5	4447.4	4809.4	4953.0	4901.8	4992.3	4990.3	5078.8	4758.2	4400.2
17.5°	4423.8	4441.5	4716.9	4895.9	4833.0	4713.0	4707.1	4797.6	4984.4	5027.7	4661.8
20°	4935.2	4976.6	5179.2	5169.3	4815.3	4573.3	4506.4	4575.3	5010.0	5255.9	5189.0
22.5°	5623.7	5680.7	5822.4	5550.9	4895.9	4478.9	4457.3	4591.0	5179.2	5765.3	5787.0
25°	6422.3	6518.7	6587.5	6239.4	5183.1	4642.2	4539.9	4770.0	5407.3	6318.1	6548.2
27.5°	6951.4	7051.8	7036.0	6538.4	5375.9	4685.4	4598.9	4813.3	5606.0	6449.9	6945.5
30°	7364.5	7425.5	7535.6	6699.7	5568.6	4807.4	4659.9	4996.2	5670.9	6678.0	7425.5
32.5°	7846.4	7887.7	7895.6	6984.9	5865.6	4960.8	4848.7	5224.4	5958.1	6896.4	7850.4
35°	8332.3	8393.3	8265.4	7337.0	6048.6	5246.0	5163.4	5619.8	6188.2	7122.6	8318.5
37.5°	8859.4	8890.9	8595.9	7482.5	6310.2	5710.3	5665.0	6046.6	6587.5	7531.7	8837.8
40°	9302.0	9331.5	8948.0	7661.5	6585.6	6359.4	6475.4	6861.0	7130.4	7797.3	9097.5
42.5°	9547.9	9616.7	9066.0	7563.2	7138.3	7095.0	7610.4	7746.1	7759.9	7872.0	9329.6
45°	9614.8	9583.3	8871.3	7643.8	7622.2	8304.7	8772.9	8951.9	8385.4	8009.7	9388.6
47.5°	9306.0	9347.3	8584.1	7573.0	8257.5	9221.4	9827.2	10159.6	8851.6	7889.7	9243.0
50°	9056.1	9003.0	8491.6	7521.9	8428.7	9654.1	10588.5	10663.2	9280.4	8037.2	9083.7
52.5°	9105.3	9138.8	8639.1	7657.6	8432.6	9679.7	10706.5	10655.3	9294.2	8003.8	9026.6
55°	9209.6	9062.1	8576.2	7358.6	7868.1	8965.7	9502.7	9424.0	8578.2	7647.8	8887.0
57.5°	7946.8	8174.9	7885.8	6569.8	6457.7	6754.7	6744.9	6986.8	6398.7	6581.6	8090.3
60°	6449.9	6489.2	6597.4	5619.8	4469.1	4366.8	4225.2	4071.7	4305.8	5627.6	7358.6
62.5°	5672.9	5625.7	6011.2	5112.3	3155.1	2641.7	2618.1	2712.5	3322.3	5368.0	6902.3
65°	4122.9	4181.9	4461.2	3967.5	2368.3	2016.2	1980.8	2260.1	2688.9	4301.9	5267.7
67.5°	2517.8	2631.9	2657.4	2447.0	1607.1	1276.6	1225.5	1479.2	1941.4	2783.3	3088.2
70°	1162.5	1300.2	1430.0	1335.6	930.4	525.2	495.7	621.6	979.6	1601.2	1638.5
72.5°	352.1	354.1	495.7	517.3	301.0	118.0	104.3	137.7	332.4	529.1	556.7
75°	25.6	27.5	66.9	76.7	57.0	29.5	31.5	37.4	70.8	118.0	88.5
77.5°	2.0	2.0	2.0	9.8	17.7	19.7	25.6	29.5	37.4	43.3	39.3
80°	2.0	0.0	2.0	7.9	13.8	19.7	23.6	27.5	29.5	33.4	29.5
82.5°	0.0	0.0	0.0	5.9	13.8	19.7	21.6	29.5	33.4	39.3	33.4
85°	0.0	0.0	0.0	5.9	13.8	21.6	19.7	9.8	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°	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0
2.5°	5362.1	5285.4	5110.3	5021.8	4813.3	4783.8	4579.2	4545.8	4476.9	4439.6	4349.1
5°	4905.7	4813.3	4528.1	4288.1	4008.8	3814.0	3664.6	3528.8	3450.1	3377.4	3410.8
7.5°	4534.0	4264.5	3947.8	3546.5	3223.9	3015.4	2787.3	2600.4	2490.2	2415.5	2433.2
10°	4144.5	3969.4	3528.8	3078.4	2688.9	2541.4	2362.4	2218.8	2063.4	1929.6	1866.7
12.5°	4022.6	3762.9	3210.2	2751.9	2456.8	2313.2	2108.6	1943.4	1744.7	1581.5	1524.4
15°	4044.2	3794.4	3123.6	2633.8	2285.7	2037.8	1793.9	1589.4	1371.0	1256.9	1197.9
17.5°	4396.3	3963.5	3180.7	2509.9	2047.7	1703.4	1402.5	1142.8	979.6	861.6	836.0
20°	4829.0	4329.4	3302.6	2419.4	1852.9	1355.3	1024.8	800.6	664.9	645.2	639.3
22.5°	5462.4	4927.4	3564.2	2358.5	1614.9	1056.3	702.2	582.2	544.9	540.9	542.9
25°	6347.6	5676.8	3849.5	2307.3	1435.9	814.3	574.4	493.7	481.9	476.0	485.9
27.5°	6731.1	6129.2	4000.9	2197.2	1272.7	733.7	566.5	489.8	456.3	446.5	452.4
30°	7205.2	6430.2	4238.9	2008.3	1032.7	603.9	529.1	533.1	517.3	468.2	452.4
32.5°	7834.6	6805.9	4358.9	1874.6	922.5	499.6	387.5	356.0	397.3	405.2	419.0
35°	8237.9	7187.5	4419.9	1795.9	865.5	426.8	328.5	299.0	289.2	291.1	299.0
37.5°	8987.3	7702.8	4496.6	1713.3	822.2	371.8	297.0	269.5	255.7	255.7	263.6
40°	9435.8	8112.0	4600.9	1668.0	778.9	338.3	269.5	245.9	234.1	234.1	238.0
42.5°	9547.9	8314.6	4565.4	1652.3	729.8	330.5	245.9	228.2	214.4	212.4	210.5
45°	9748.5	8623.4	4571.3	1634.6	678.6	301.0	232.1	212.4	192.8	190.8	188.8
47.5°	9968.8	8845.7	4583.2	1565.7	629.4	251.8	241.9	196.7	173.1	169.2	169.2
50°	9780.0	9022.7	4685.4	1496.9	566.5	204.6	238.0	184.9	153.4	147.5	149.5
52.5°	9803.6	9231.2	4901.8	1400.5	487.8	163.3	192.8	175.1	139.7	129.8	131.8
55°	9425.9	9010.9	4931.3	1298.2	381.6	125.9	147.5	153.4	118.0	114.1	114.1
57.5°	8113.9	7630.1	4351.0	1052.4	251.8	104.3	106.2	133.8	102.3	98.4	100.3
60°	6943.6	6125.3	3501.3	694.4	157.4	82.6	76.7	135.7	90.5	88.5	94.4
62.5°	6329.9	5033.6	2655.5	430.8	108.2	62.9	53.1	110.2	78.7	78.7	86.5
65°	4573.3	3381.3	1544.1	226.2	76.7	49.2	39.3	62.9	64.9	66.9	70.8
67.5°	2832.5	1707.4	651.1	110.2	51.1	33.4	25.6	39.3	43.3	43.3	47.2
70°	1398.5	680.6	216.4	62.9	39.3	27.5	17.7	21.6	21.6	19.7	21.6
72.5°	432.7	204.6	55.1	39.3	27.5	17.7	9.8	7.9	3.9	0.0	2.0
75°	49.2	39.3	35.4	27.5	17.7	7.9	2.0	0.0	0.0	0.0	0.0
77.5°	29.5	33.4	33.4	27.5	17.7	5.9	0.0	0.0	0.0	0.0	0.0
80°	23.6	25.6	27.5	25.6	15.7	7.9	0.0	0.0	0.0	0.0	0.0
82.5°	29.5	33.4	37.4	33.4	21.6	9.8	3.9	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	5.9	2.0	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°	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0
2.5°	4311.7	4268.4	4329.4	4238.9	4237.0	4238.9	4213.4	4189.7	4227.1	4327.4	4337.3
5°	3290.8	3383.3	3412.8	3509.2	3456.1	3377.4	3393.1	3340.0	3469.8	3526.9	3481.6
7.5°	2395.8	2389.9	2588.6	2600.4	2626.0	2627.9	2624.0	2519.7	2413.5	2437.1	2507.9
10°	1858.8	1758.5	1854.9	1845.1	1908.0	1890.3	1915.9	1803.8	1841.1	1841.1	1886.4
12.5°	1514.6	1408.4	1390.7	1365.1	1390.7	1400.5	1410.4	1388.7	1451.7	1481.2	1512.6
15°	1156.6	1097.6	1081.9	1032.7	1040.6	1068.1	1091.7	1101.5	1081.9	1127.1	1131.0
17.5°	839.9	837.9	847.8	845.8	837.9	832.0	830.1	804.5	796.6	800.6	816.3
20°	637.3	653.0	686.5	719.9	737.6	716.0	686.5	643.2	625.5	629.4	631.4
22.5°	544.9	568.5	613.7	651.1	668.8	629.4	576.3	539.0	531.1	529.1	527.2
25°	493.7	521.3	554.7	566.5	564.5	540.9	501.6	485.9	481.9	478.0	460.3
27.5°	466.2	476.0	481.9	495.7	501.6	485.9	476.0	452.4	448.5	448.5	436.7
30°	450.4	444.5	452.4	442.6	450.4	438.6	440.6	440.6	430.8	434.7	434.7
32.5°	419.0	420.9	420.9	401.3	407.2	393.4	407.2	419.0	420.9	422.9	438.6
35°	306.9	342.3	360.0	360.0	365.9	356.0	354.1	340.3	322.6	304.9	297.0
37.5°	269.5	283.3	306.9	320.6	330.5	322.6	304.9	283.3	273.4	265.5	257.7
40°	240.0	251.8	267.5	283.3	302.9	293.1	265.5	255.7	243.9	243.9	236.0
42.5°	216.4	222.3	232.1	255.7	277.3	257.7	238.0	230.1	224.2	222.3	220.3
45°	194.7	196.7	206.5	226.2	251.8	232.1	212.4	202.6	204.6	206.5	204.6
47.5°	175.1	179.0	184.9	208.5	224.2	214.4	192.8	186.9	186.9	186.9	188.8
50°	151.5	161.3	173.1	192.8	204.6	198.7	181.0	173.1	169.2	169.2	171.1
52.5°	135.7	143.6	159.3	182.9	198.7	188.8	171.1	159.3	151.5	149.5	153.4
55°	118.0	131.8	157.4	175.1	196.7	186.9	167.2	153.4	139.7	137.7	137.7
57.5°	106.2	127.9	151.5	173.1	190.8	182.9	167.2	149.5	131.8	129.8	129.8
60°	100.3	123.9	147.5	167.2	190.8	179.0	165.2	145.6	125.9	125.9	123.9
62.5°	94.4	116.1	139.7	159.3	182.9	173.1	159.3	139.7	120.0	120.0	116.1
65°	78.7	100.3	116.1	133.8	159.3	149.5	135.7	122.0	106.2	102.3	104.3
67.5°	55.1	68.8	84.6	102.3	118.0	114.1	108.2	98.4	84.6	82.6	80.6
70°	27.5	37.4	51.1	68.8	82.6	78.7	74.7	66.9	59.0	57.0	57.0
72.5°	3.9	11.8	21.6	31.5	43.3	45.2	43.3	41.3	39.3	37.4	39.3
75°	0.0	0.0	0.0	7.9	17.7	21.6	25.6	29.5	29.5	25.6	31.5
77.5°	0.0	0.0	0.0	0.0	2.0	9.8	19.7	25.6	31.5	27.5	37.4
80°	0.0	0.0	0.0	0.0	2.0	11.8	19.7	27.5	31.5	27.5	39.3
82.5°	0.0	0.0	0.0	0.0	2.0	13.8	19.7	25.6	29.5	27.5	35.4
85°	0.0	0.0	0.0	0.0	5.9	11.8	7.9	3.9	2.0	2.0	5.9
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-SA4A-760-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0
2.5°	4392.4	4532.0	4681.5	4738.5	4915.6	5049.3	5139.8	5334.6	5364.1	5366.0
5°	3528.8	3599.6	3855.4	3975.3	4238.9	4443.5	4661.8	4976.6	5187.0	5202.8
7.5°	2507.9	2704.6	2812.8	3125.6	3450.1	3770.8	4095.3	4461.2	4705.1	4711.0
10°	2018.2	2146.0	2338.8	2572.9	2846.3	3172.8	3605.5	4030.4	4278.3	4339.2
12.5°	1624.8	1849.0	2069.3	2311.2	2519.7	2765.6	3231.8	3798.3	4002.9	4124.8
15°	1251.0	1455.6	1715.2	1998.5	2234.5	2563.0	3094.1	3741.3	4085.5	4126.8
17.5°	922.5	1105.5	1345.4	1613.0	1967.0	2433.2	3117.7	4030.4	4355.0	4423.8
20°	662.9	769.1	957.9	1268.7	1719.2	2281.7	3141.3	4323.5	4817.2	4935.2
22.5°	525.2	568.5	692.4	967.8	1441.8	2122.4	3308.5	4884.1	5452.6	5623.7
25°	456.3	480.0	539.0	763.2	1266.8	2106.7	3576.0	5556.8	6298.4	6422.3
27.5°	440.6	444.5	495.7	700.3	1172.3	2002.4	3678.3	6034.8	6825.6	6951.4
30°	464.2	527.2	531.1	592.1	997.3	1795.9	3731.4	6497.1	7272.1	7364.5
32.5°	401.3	381.6	395.4	458.3	877.3	1675.9	3831.8	6900.3	7781.5	7846.4
35°	279.3	293.1	324.6	397.3	767.1	1550.0	3857.3	7344.8	8265.4	8332.3
37.5°	257.7	265.5	291.1	338.3	674.7	1479.2	3821.9	7669.4	8767.0	8859.4
40°	240.0	249.8	263.6	306.9	605.8	1400.5	3772.7	7962.5	9073.9	9302.0
42.5°	226.2	234.1	245.9	293.1	546.8	1321.8	3703.9	8375.6	9349.2	9547.9
45°	210.5	222.3	236.0	285.2	513.4	1268.7	3652.8	8350.0	9508.6	9614.8
47.5°	194.7	214.4	230.1	265.5	503.6	1243.2	3674.4	8253.6	9378.7	9306.0
50°	179.0	204.6	232.1	220.3	480.0	1192.0	3700.0	8385.4	9069.9	9056.1
52.5°	165.2	194.7	216.4	181.0	426.8	1142.8	3947.8	8558.5	9288.3	9105.3
55°	145.6	175.1	173.1	145.6	346.2	1105.5	4142.5	8562.4	9140.7	9209.6
57.5°	131.8	155.4	135.7	122.0	255.7	924.5	3825.8	7179.6	7824.8	7946.8
60°	122.0	151.5	102.3	96.4	167.2	666.8	3340.0	5560.8	6219.7	6449.9
62.5°	112.1	143.6	80.6	78.7	116.1	474.1	2746.0	4654.0	5360.1	5672.9
65°	98.4	102.3	64.9	61.0	82.6	255.7	1672.0	3204.3	4006.8	4122.9
67.5°	80.6	78.7	53.1	49.2	55.1	123.9	737.6	1605.1	2323.0	2517.8
70°	64.9	64.9	45.2	39.3	39.3	57.0	192.8	639.3	1050.4	1162.5
72.5°	47.2	49.2	35.4	31.5	29.5	27.5	31.5	127.9	275.4	352.1
75°	41.3	43.3	35.4	27.5	21.6	17.7	13.8	11.8	15.7	25.6
77.5°	45.2	45.2	37.4	25.6	19.7	13.8	7.9	3.9	3.9	2.0
80°	57.0	59.0	49.2	33.4	23.6	15.7	9.8	3.9	2.0	2.0
82.5°	61.0	66.9	55.1	41.3	29.5	17.7	9.8	2.0	0.0	0.0
85°	15.7	25.6	43.3	37.4	29.5	17.7	9.8	2.0	0.0	0.0
87.5°	0.0	2.0	5.9	5.9	7.9	7.9	5.9	2.0	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)