

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: P528991

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528991  
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-SA4A-760-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5700K, 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: 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

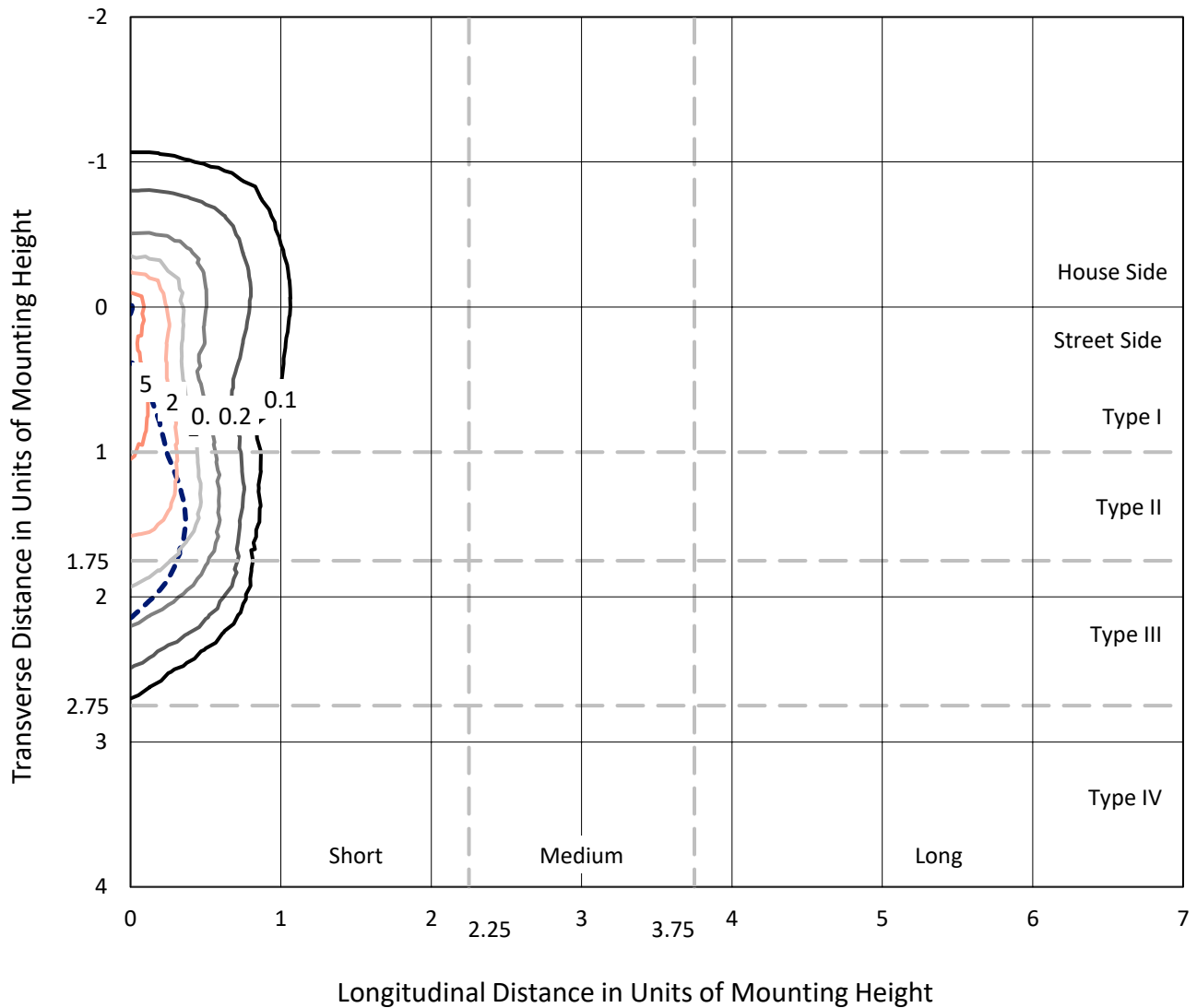
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

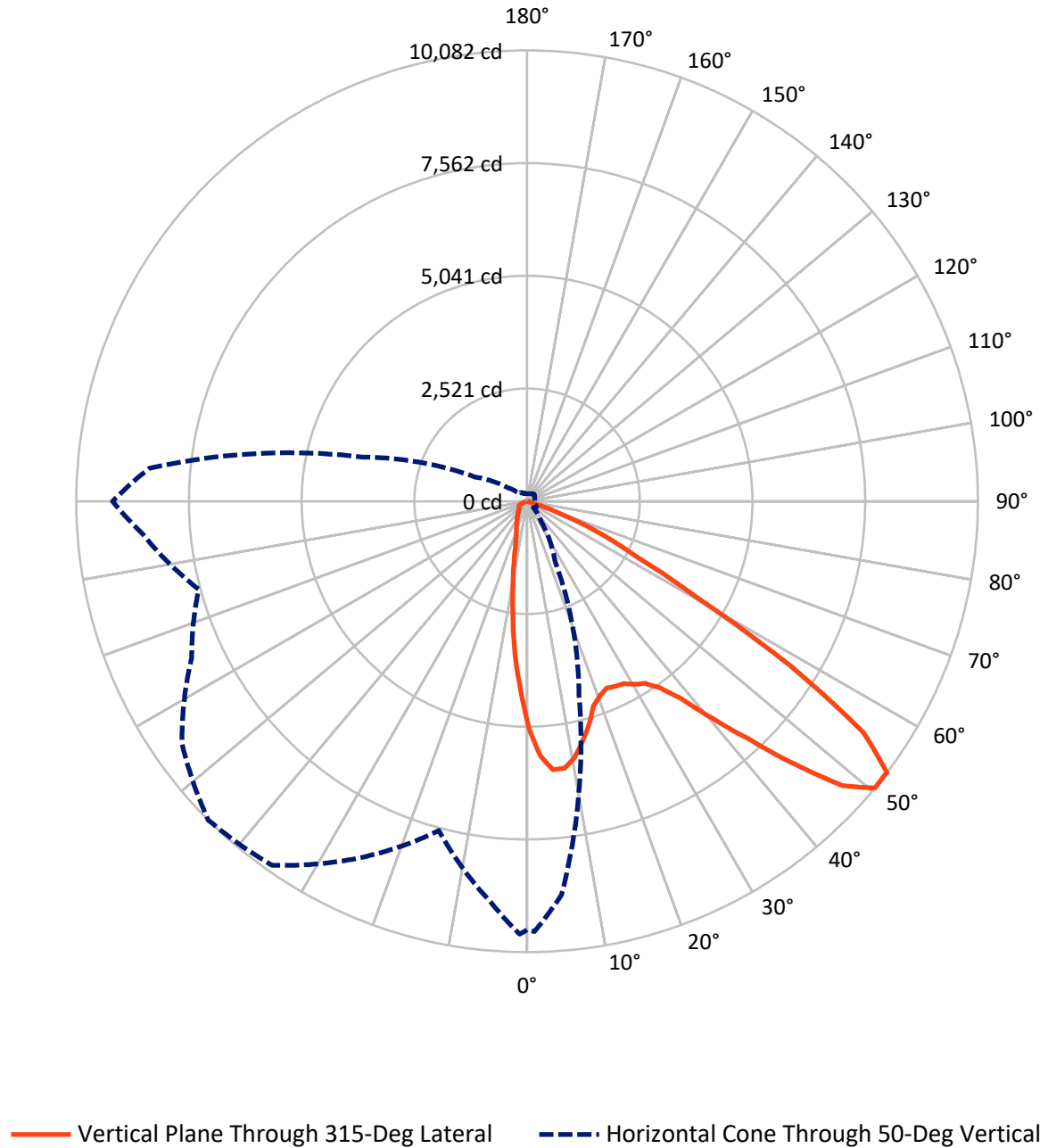
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	2003.2	0.0	2003.2
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	7997.8	0.0	7997.8
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	10001.0	0.0	10001.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	369.7	3.7
10°-20°	734.7	7.3
20°-30°	1103.8	11.0
30°-40°	1656.7	16.6
40°-50°	2328.4	23.3
50°-60°	2511.6	25.1
60°-70°	1166.1	11.7
70°-80°	109.7	1.1
80°-90°	20.2	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°	10001.0	100.0
0°-180°	10001.0	100.0

**Coefficient of Utilization**



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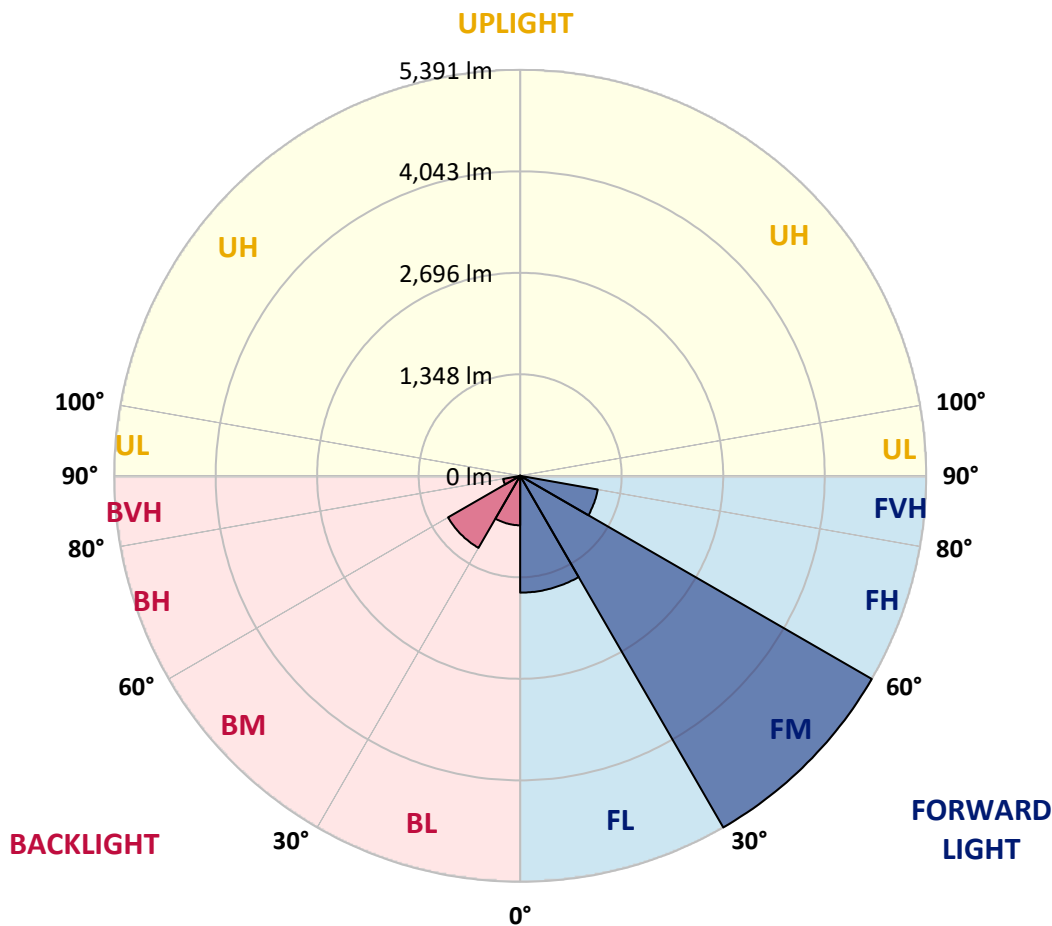
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1551.6	15.5			
FM (30°-60°)	5391.3	53.9			
FH (60°-80°)	1045.8	10.5			G1/1800
FVH (80°-90°)	9.1	0.1			G0/10
BL (0°-30°)	656.6	6.6	B2/1000		
BM (30°-60°)	1105.5	11.1	B2/2500		
BH (60°-80°)	230.0	2.3	B1/500		G1/500
BVH (80°-90°)	11.1	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°	5071.8	5071.8	5071.8	5071.8	5071.8	5071.8	5071.8	5071.8	5071.8	5071.8	5071.8
2.5°	5272.2	5190.8	5087.6	5002.3	4875.3	4619.4	4549.9	4466.6	4397.1	4303.9	4172.9
5°	4794.0	4768.2	4720.6	4399.1	4166.9	3857.4	3603.4	3496.3	3355.4	3240.3	3157.0
7.5°	4428.9	4325.7	4174.9	3851.4	3480.4	3149.0	2867.3	2702.6	2516.0	2452.5	2339.4
10°	4038.0	4061.8	3839.5	3385.1	2936.7	2668.8	2494.2	2335.5	2166.8	2055.7	1895.0
12.5°	3913.0	3835.6	3664.9	3103.4	2720.4	2470.4	2258.1	2061.6	1883.1	1704.5	1549.7
15°	3994.3	3875.3	3637.1	3043.9	2553.7	2242.2	1976.3	1710.4	1545.7	1317.5	1156.8
17.5°	4286.0	4190.8	3871.3	3107.4	2468.4	2023.9	1629.1	1355.2	1103.2	896.9	815.5
20°	4772.1	4637.2	4236.4	3188.7	2341.4	1760.0	1321.5	984.2	746.1	658.8	613.1
22.5°	5248.4	5174.9	4669.0	3345.5	2228.3	1525.9	992.1	662.7	557.6	541.7	511.9
25°	6155.2	5934.9	5329.7	3629.2	2141.0	1305.6	748.1	533.8	472.3	460.3	464.3
27.5°	6694.9	6510.4	5940.9	3817.7	2043.8	1137.0	633.0	490.1	448.4	422.6	412.7
30°	7212.8	6998.5	6244.5	3928.8	1835.4	958.4	561.5	470.3	460.3	422.6	410.7
32.5°	7611.6	7401.3	6683.0	4095.5	1750.1	843.3	462.3	367.1	341.3	337.3	373.0
35°	8222.8	7998.6	7058.0	4186.8	1684.6	783.8	400.8	327.4	297.6	285.7	287.7
37.5°	8792.3	8639.5	7405.3	4222.5	1615.2	765.9	359.2	293.7	267.9	259.9	258.0
40°	9268.5	8927.2	7734.6	4260.2	1585.4	732.2	333.4	267.9	250.0	238.1	238.1
42.5°	9486.7	9139.5	8103.7	4238.4	1577.5	678.6	333.4	246.0	232.2	220.3	218.3
45°	9439.1	9298.2	8268.4	4228.5	1577.5	625.0	303.6	240.1	220.3	204.4	200.4
47.5°	9562.1	9377.6	8474.8	4270.1	1545.7	587.3	256.0	252.0	208.3	188.5	184.5
50°	9584.0	9619.7	8833.9	4486.4	1476.3	539.7	200.4	248.0	200.4	170.6	166.7
52°	9726.8	9504.6	8943.1	4601.5	1402.9	504.0	168.7	212.3	192.5	158.7	154.8
52.5°	9530.4	9675.3	8968.9	4643.2	1410.8	480.2	162.7	208.3	188.5	158.7	148.8
55°	9310.1	9449.0	8863.7	4732.5	1293.7	377.0	127.0	150.8	170.6	138.9	132.9
57.5°	8091.8	8232.7	7702.9	4333.6	1053.6	265.9	105.2	113.1	150.8	129.0	123.0
60°	7192.9	7091.7	6464.7	3615.3	748.1	148.8	83.3	87.3	164.7	119.1	117.1
62.5°	6573.9	6357.6	5403.1	2791.9	456.4	99.2	65.5	67.5	127.0	111.1	111.1
65°	4863.4	4621.3	3589.5	1688.6	224.2	69.4	49.6	53.6	79.4	95.2	95.2
67.5°	2776.0	2682.7	1734.2	762.0	93.3	43.7	37.7	41.7	61.5	77.4	73.4
70°	1275.9	1144.9	666.7	160.7	43.7	29.8	29.8	33.7	49.6	57.5	53.6
72.5°	373.0	353.2	162.7	25.8	17.9	17.9	19.8	25.8	37.7	43.7	39.7
75°	27.8	17.9	11.9	7.9	7.9	11.9	15.9	25.8	37.7	41.7	33.7
77.5°	2.0	4.0	2.0	2.0	6.0	11.9	17.9	31.7	49.6	51.6	37.7
80°	2.0	2.0	0.0	2.0	6.0	11.9	19.8	35.7	55.6	59.5	31.7
82.5°	0.0	0.0	0.0	2.0	7.9	15.9	23.8	37.7	51.6	63.5	33.7
85°	0.0	0.0	0.0	2.0	11.9	21.8	27.8	9.9	6.0	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°	5071.8	5071.8	5071.8	5071.8	5071.8	5071.8	5071.8	5071.8	5071.8	5071.8	5071.8
2.5°	4266.2	4214.6	4194.7	4212.6	4206.6	4200.7	4309.8	4286.0	4282.0	4317.7	4309.8
5°	3202.6	3111.3	3361.3	3260.1	3365.3	3428.8	3440.7	3446.7	3520.1	3442.7	3543.9
7.5°	2281.9	2305.7	2303.7	2371.2	2492.2	2599.4	2662.9	2613.3	2609.3	2599.4	2555.7
10°	1823.5	1781.9	1773.9	1758.1	1795.8	1887.0	1964.4	1902.9	1859.3	1918.8	1900.9
12.5°	1490.2	1432.6	1400.9	1337.4	1339.4	1400.9	1400.9	1400.9	1444.5	1478.3	1504.1
15°	1142.9	1095.3	1095.3	1031.8	1017.9	1019.9	1051.7	1055.6	1125.1	1144.9	1154.8
17.5°	799.7	773.9	803.6	829.4	813.5	817.5	829.4	833.4	843.3	835.4	855.2
20°	615.1	611.2	619.1	664.7	698.5	718.3	704.4	684.6	672.7	644.9	644.9
22.5°	521.9	529.8	543.7	581.4	625.0	636.9	621.1	575.4	539.7	535.8	537.7
25°	464.3	472.3	494.1	517.9	541.7	561.5	545.7	511.9	492.1	474.2	474.2
27.5°	428.6	432.6	444.5	462.3	482.2	498.0	492.1	474.2	452.4	444.5	426.6
30°	400.8	406.8	420.7	424.6	442.5	450.4	440.5	436.5	422.6	412.7	406.8
32.5°	386.9	384.9	394.9	398.8	400.8	406.8	394.9	400.8	398.8	383.0	377.0
35°	291.7	307.6	333.4	355.2	361.1	369.1	367.1	359.2	337.3	319.5	297.6
37.5°	261.9	271.8	285.7	303.6	327.4	337.3	333.4	313.5	287.7	275.8	271.8
40°	242.1	248.0	259.9	271.8	295.7	313.5	299.6	281.8	261.9	252.0	246.0
42.5°	224.2	226.2	232.2	244.1	261.9	289.7	265.9	242.1	234.1	228.2	224.2
45°	204.4	204.4	212.3	218.3	238.1	263.9	240.1	218.3	214.3	210.3	208.3
47.5°	188.5	190.5	194.5	202.4	218.3	236.1	220.3	202.4	192.5	190.5	186.5
50°	168.7	170.6	178.6	186.5	206.4	216.3	206.4	186.5	176.6	170.6	170.6
52°	152.8	158.7	166.7	182.6	196.4	212.3	200.4	178.6	166.7	160.7	156.8
52.5°	150.8	154.8	162.7	180.6	196.4	210.3	198.4	176.6	162.7	158.7	154.8
55°	134.9	140.9	154.8	176.6	194.5	210.3	194.5	174.6	154.8	144.9	140.9
57.5°	129.0	132.9	150.8	178.6	192.5	210.3	194.5	174.6	154.8	136.9	132.9
60°	123.0	131.0	150.8	172.6	190.5	212.3	196.4	172.6	150.8	129.0	129.0
62.5°	117.1	123.0	148.8	168.7	182.6	204.4	188.5	168.7	144.9	123.0	121.0
65°	101.2	111.1	131.0	140.9	156.8	176.6	160.7	146.8	127.0	109.1	107.2
67.5°	77.4	81.4	97.2	109.1	119.1	136.9	129.0	111.1	97.2	83.3	83.3
70°	53.6	57.5	69.4	75.4	85.3	95.2	89.3	75.4	65.5	57.5	55.6
72.5°	37.7	39.7	43.7	47.6	51.6	55.6	53.6	43.7	37.7	35.7	33.7
75°	29.8	33.7	35.7	33.7	31.7	29.8	29.8	25.8	21.8	19.8	19.8
77.5°	29.8	31.7	29.8	25.8	21.8	19.8	17.9	15.9	11.9	9.9	11.9
80°	25.8	25.8	25.8	21.8	19.8	17.9	15.9	13.9	11.9	9.9	9.9
82.5°	27.8	27.8	25.8	21.8	21.8	17.9	17.9	15.9	13.9	9.9	9.9
85°	0.0	0.0	0.0	4.0	9.9	17.9	17.9	15.9	13.9	11.9	11.9
87.5°	0.0	0.0	0.0	0.0	2.0	4.0	7.9	9.9	11.9	11.9	11.9
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°	5071.8	5071.8	5071.8	5071.8	5071.8	5071.8	5071.8	5071.8	5071.8	5071.8	5071.8
2.5°	4381.2	4456.6	4599.5	4742.4	4829.7	4932.9	5119.4	5218.6	5347.6	5411.1	5536.1
5°	3530.0	3708.6	3772.1	3934.8	4109.4	4284.0	4561.8	4867.4	5121.4	5296.0	5522.2
7.5°	2575.6	2617.2	2863.3	2972.4	3258.2	3575.6	3954.6	4339.6	4661.0	4946.8	5119.4
10°	1930.7	2083.5	2238.2	2446.6	2676.8	3004.2	3367.3	3791.9	4208.6	4494.3	4712.6
12.5°	1551.7	1672.7	1879.1	2103.3	2387.1	2603.3	2968.5	3389.1	3928.8	4208.6	4496.3
15°	1174.7	1329.5	1563.6	1795.8	2095.4	2323.6	2692.6	3222.4	3916.9	4301.9	4549.9
17.5°	871.1	976.3	1186.6	1446.5	1752.1	2073.6	2571.6	3204.6	4049.9	4508.2	4764.2
20°	666.7	702.4	835.4	1067.5	1398.9	1819.6	2375.2	3282.0	4442.8	5010.3	5270.2
22.5°	539.7	555.6	607.2	767.9	1089.4	1597.3	2281.9	3335.5	4885.2	5611.5	5958.7
25°	470.3	466.3	500.0	569.5	851.2	1389.0	2162.8	3537.9	5427.0	6317.9	6629.4
27.5°	428.6	428.6	444.5	494.1	706.4	1254.1	2087.4	3682.8	5972.6	6939.0	7107.6
30°	406.8	410.7	456.4	472.3	587.3	1093.3	1962.4	3829.6	6494.5	7335.8	7568.0
32.5°	377.0	361.1	351.2	390.9	494.1	948.5	1837.4	3891.1	6917.1	7822.0	8020.4
35°	289.7	281.8	293.7	323.4	424.6	825.5	1698.5	3960.6	7403.3	8385.5	8425.2
37.5°	261.9	259.9	267.9	293.7	357.2	718.3	1599.3	3942.7	7774.3	8851.8	8744.6
40°	242.1	242.1	248.0	269.9	319.5	642.9	1496.1	3926.8	8133.5	9375.6	9062.1
42.5°	226.2	226.2	236.1	250.0	303.6	593.3	1418.7	3905.0	8435.1	9697.1	9248.6
45°	204.4	210.3	226.2	240.1	307.6	559.6	1361.2	3821.7	8538.3	9693.1	9159.3
47.5°	188.5	196.4	212.3	232.2	277.8	549.6	1321.5	3748.3	8502.6	9455.0	8879.6
50°	170.6	180.6	202.4	236.1	236.1	529.8	1279.8	3813.7	8476.8	9270.5	8611.7
52°	158.7	166.7	194.5	230.2	206.4	488.1	1254.1	3940.7	8581.9	9246.6	8492.6
52.5°	156.8	162.7	188.5	226.2	196.4	480.2	1236.2	3970.5	8615.7	9187.1	8574.0
55°	138.9	146.8	172.6	176.6	160.7	394.9	1178.7	4038.0	8449.0	9070.1	8496.6
57.5°	131.0	134.9	152.8	144.9	138.9	297.6	1014.0	3932.8	7504.5	8056.1	7905.3
60°	121.0	125.0	142.9	113.1	117.1	208.3	762.0	3414.9	6026.2	6712.8	6984.6
62.5°	117.1	115.1	134.9	91.3	99.2	150.8	537.7	2776.0	4643.2	5526.2	5996.4
65°	103.2	101.2	97.2	77.4	85.3	117.1	321.5	1811.6	3272.0	4180.8	4438.8
67.5°	79.4	83.3	71.4	61.5	71.4	91.3	178.6	811.6	1716.4	2508.1	2716.5
70°	55.6	59.5	57.5	53.6	63.5	75.4	103.2	277.8	710.4	1317.5	1452.5
72.5°	33.7	41.7	43.7	45.6	55.6	65.5	73.4	89.3	188.5	466.3	579.4
75°	19.8	27.8	33.7	39.7	45.6	55.6	61.5	63.5	65.5	87.3	140.9
77.5°	13.9	19.8	29.8	37.7	45.6	55.6	65.5	69.4	65.5	61.5	65.5
80°	11.9	19.8	27.8	35.7	47.6	57.5	65.5	65.5	63.5	55.6	59.5
82.5°	11.9	19.8	29.8	37.7	45.6	55.6	63.5	65.5	59.5	55.6	57.5
85°	13.9	21.8	31.7	39.7	49.6	45.6	41.7	33.7	31.7	25.8	27.8
87.5°	13.9	19.8	19.8	21.8	23.8	23.8	23.8	21.8	17.9	15.9	15.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P528991

CATALOG NUMBER: GALN-SA4A-760-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5071.8	5071.8	5071.8	5071.8	5071.8	5071.8	5071.8	5071.8	5071.8	5071.8
2.5°	5542.0	5700.8	5694.8	5698.8	5675.0	5514.3	5436.9	5240.4	5296.0	5272.2
5°	5754.4	5911.1	6046.0	6030.2	5847.6	5629.3	5305.9	5000.3	4917.0	4794.0
7.5°	5542.0	5919.0	6044.1	6026.2	5756.3	5476.6	4960.6	4655.1	4510.2	4428.9
10°	5204.7	5641.3	5796.0	5827.8	5645.2	5220.6	4746.3	4256.2	4178.9	4038.0
12.5°	5012.2	5329.7	5425.0	5510.3	5446.8	5129.3	4583.6	4113.4	4006.2	3913.0
15°	4855.5	5044.0	5083.7	5180.9	5218.6	5048.0	4669.0	4268.1	4004.2	3994.3
17.5°	5000.3	4922.9	4778.1	4807.9	4926.9	5049.9	4889.2	4573.7	4317.7	4286.0
20°	5240.4	4899.1	4571.7	4645.2	4744.4	5121.4	5222.6	5000.3	4853.5	4772.1
22.5°	5516.2	4940.8	4506.3	4542.0	4730.5	5282.1	5762.3	5639.3	5365.4	5248.4
25°	6026.2	5055.9	4557.8	4581.7	4839.6	5506.3	6250.4	6341.7	6179.0	6155.2
27.5°	6524.2	5353.5	4670.9	4617.4	4895.2	5724.6	6546.1	7036.2	6750.5	6694.9
30°	6778.2	5595.6	4839.6	4748.3	5125.3	5857.5	6724.7	7488.6	7238.6	7212.8
32.5°	7167.1	5815.9	4970.6	4853.5	5254.3	6022.2	7058.0	7982.7	7740.6	7611.6
35°	7329.9	6056.0	5258.3	5121.4	5623.4	6252.4	7228.7	8423.2	8347.8	8222.8
37.5°	7643.4	6313.9	5597.6	5589.7	6069.9	6552.0	7536.2	9022.4	9008.5	8792.3
40°	7669.2	6595.7	6133.3	6383.4	6760.4	7073.9	7806.1	9189.1	9415.3	9268.5
42.5°	7708.8	7089.8	7060.0	7266.4	7589.8	7522.3	7816.0	9228.8	9574.1	9486.7
45°	7726.7	7583.8	8002.5	8383.5	8518.4	8109.7	7722.7	9153.4	9657.4	9439.1
47.5°	7583.8	8008.5	8764.5	9500.6	9540.3	8470.8	7683.1	9076.0	9707.0	9562.1
50°	7603.7	8274.4	9423.2	10082.0	9937.2	8790.3	7621.5	9028.4	9681.2	9584.0
52°	7556.1	8280.3	9516.5	10070.1	9968.9	8613.7	7516.4	8845.8	9657.4	9726.8
52.5°	7609.6	8244.6	9419.3	10078.1	9947.1	8701.0	7502.5	8947.0	9671.3	9530.4
55°	7425.1	7820.0	8849.8	9129.6	9109.7	7897.4	7075.9	8611.7	9308.2	9310.1
57.5°	6710.8	6778.2	6940.9	6935.0	6843.7	6208.7	6052.0	7919.2	8298.2	8091.8
60°	5913.1	4962.6	4524.1	4345.5	4244.3	4141.1	5353.5	7244.5	7280.2	7192.9
62.5°	5109.5	3440.7	2857.3	2807.7	2831.5	3208.5	5174.9	6976.7	6762.4	6573.9
65°	4123.3	2508.1	2075.5	2010.1	2242.2	2649.0	4188.8	5349.6	5020.2	4863.4
67.5°	2589.5	1829.5	1402.9	1279.8	1559.6	1823.5	2752.2	3361.3	2992.3	2776.0
70°	1535.8	1021.9	635.0	569.5	640.9	972.3	1541.8	1676.7	1387.0	1275.9
72.5°	605.2	375.0	176.6	150.8	156.8	341.3	567.5	553.6	418.7	373.0
75°	162.7	113.1	61.5	49.6	41.7	63.5	91.3	59.5	21.8	27.8
77.5°	75.4	67.5	53.6	41.7	31.7	23.8	11.9	4.0	4.0	2.0
80°	65.5	57.5	49.6	41.7	31.7	19.8	9.9	2.0	2.0	2.0
82.5°	61.5	53.6	45.6	37.7	29.8	19.8	9.9	2.0	0.0	0.0
85°	25.8	33.7	37.7	35.7	31.7	19.8	9.9	2.0	0.0	0.0
87.5°	13.9	11.9	9.9	7.9	6.0	4.0	4.0	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

(END OF REPORT)