

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: P531435

Luminaire Tested: **GALN-SA6D-727-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531435  
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-SA6D-727-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 1200mA 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: 21209 lumens  
Efficiency: N/A  
Efficacy: 57.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2

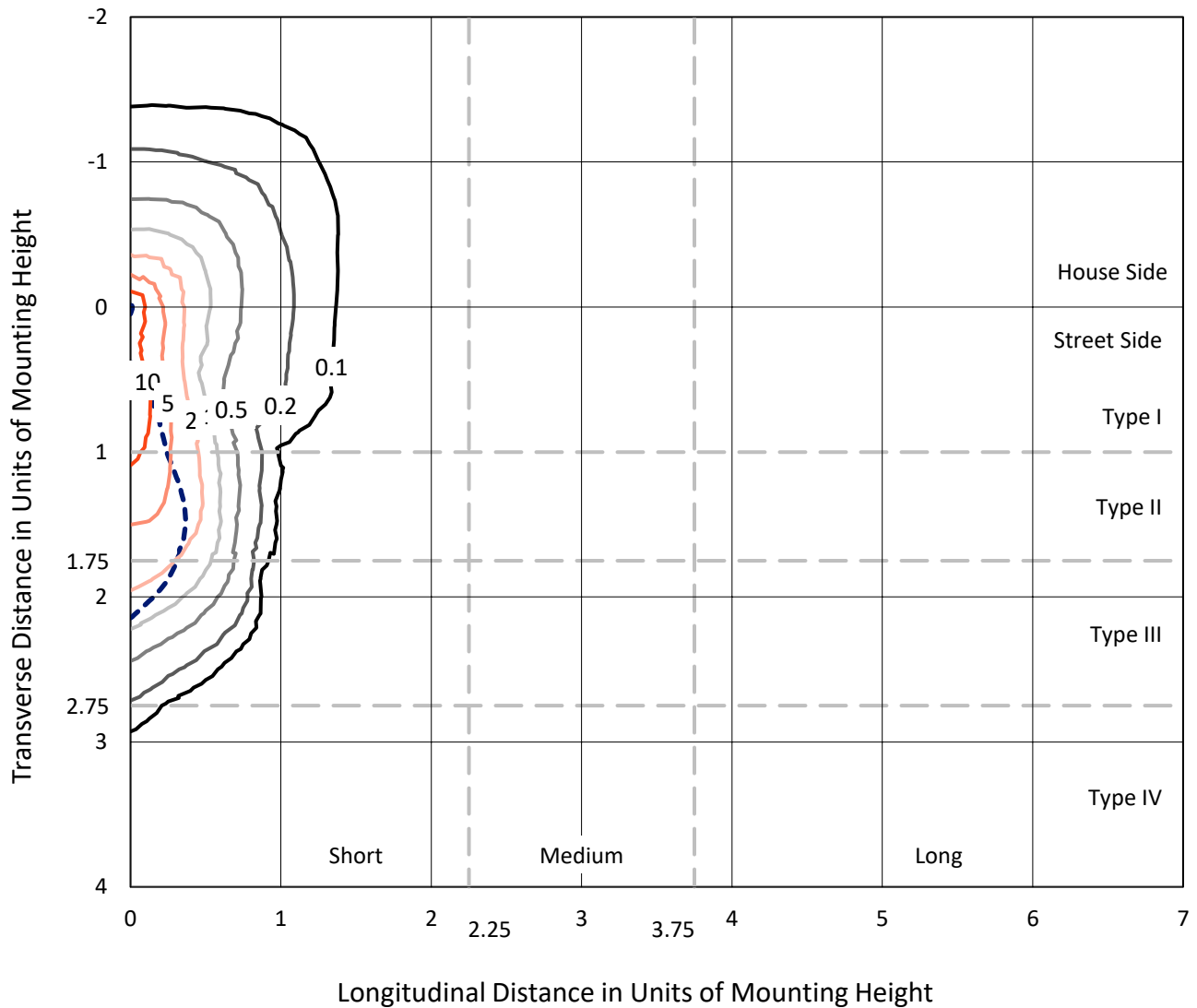
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

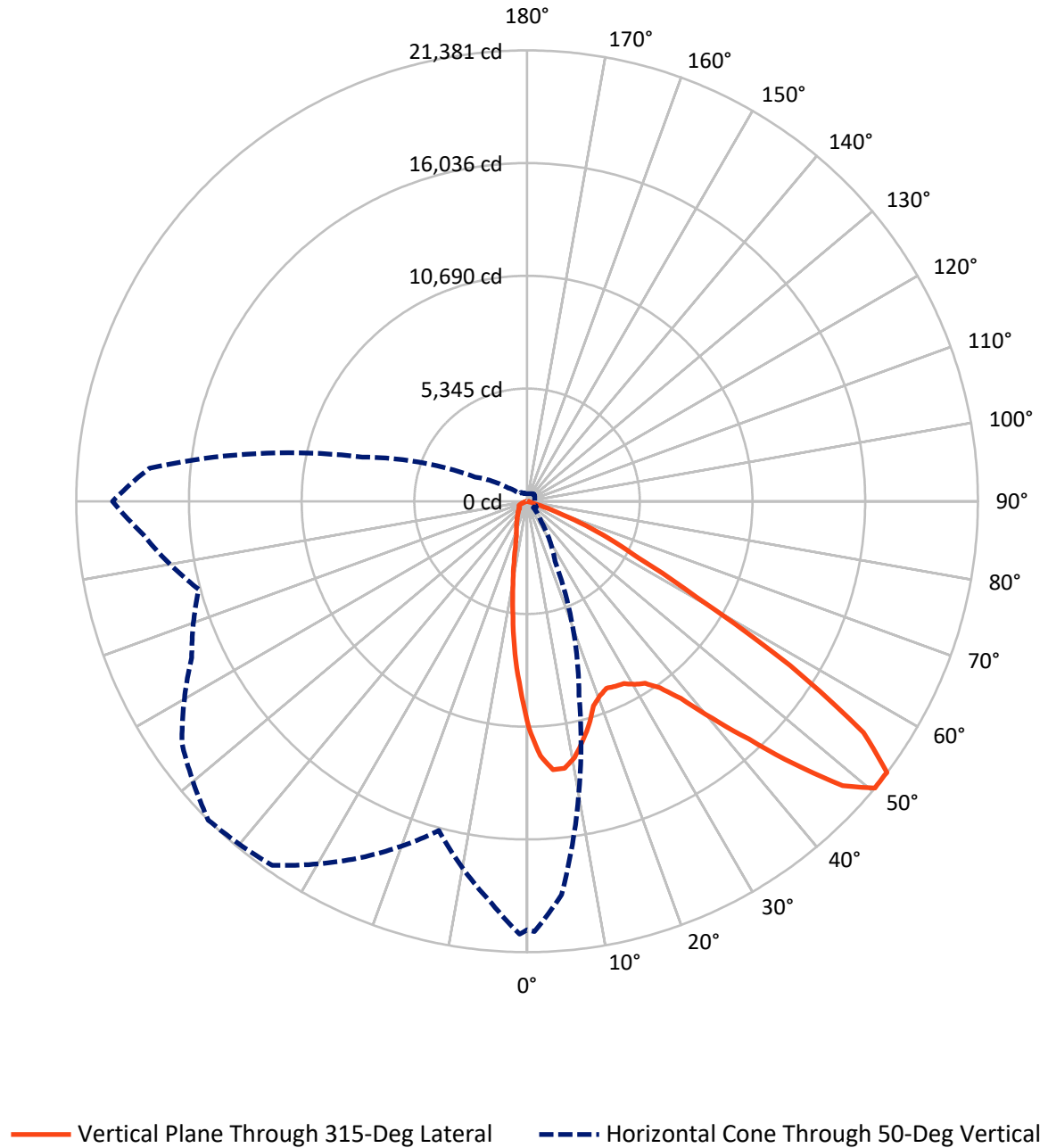
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 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	4248.2	0.0	4248.2
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	16960.8	0.0	16960.8
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	21209.0	0.0	21209.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	784.0	3.7
10°-20°	1558.1	7.3
20°-30°	2340.8	11.0
30°-40°	3513.4	16.6
40°-50°	4937.8	23.3
50°-60°	5326.3	25.1
60°-70°	2473.0	11.7
70°-80°	232.7	1.1
80°-90°	42.9	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°	21209.0	100.0
0°-180°	21209.0	100.0

**Coefficient of Utilization**



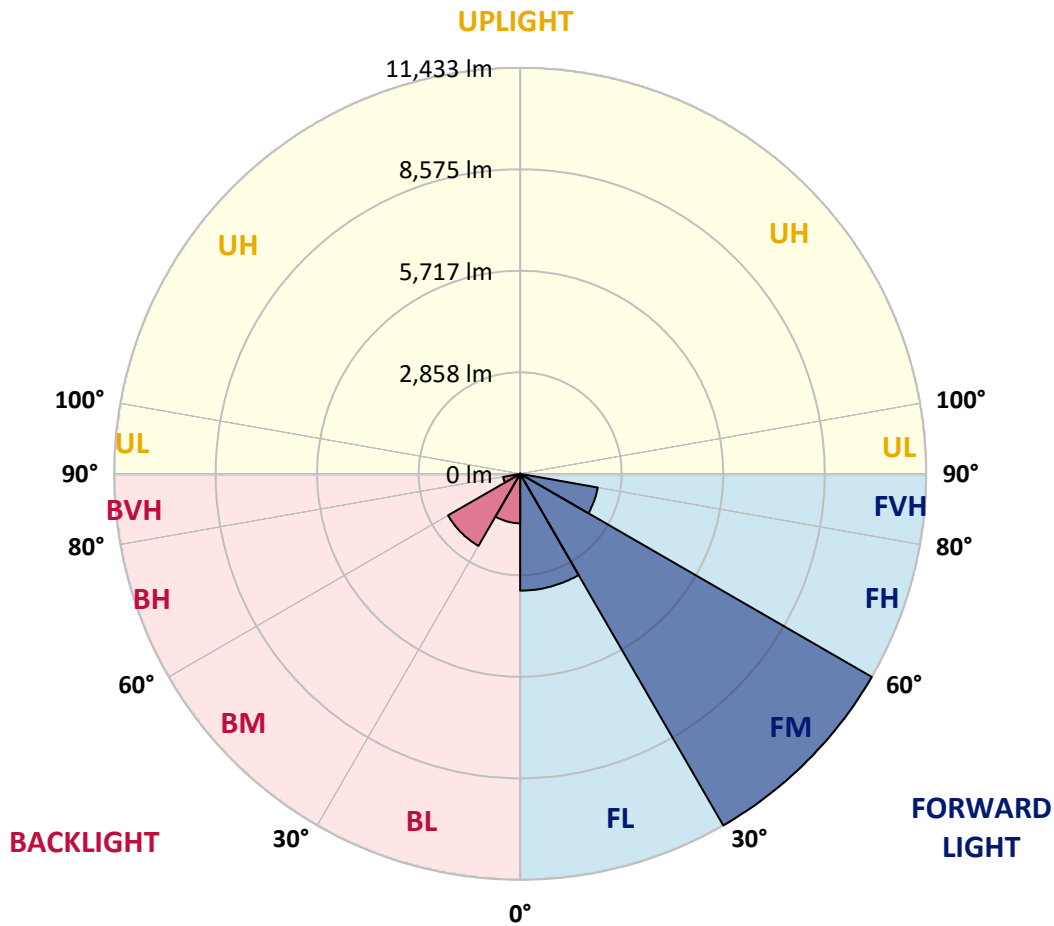
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3290.4	15.5			
FM (30°-60°)	11433.2	53.9			
FH (60°-80°)	2217.9	10.5			G2/5000
FVH (80°-90°)	19.3	0.1			G1/100
BL (0°-30°)	1392.4	6.6	B3/2500		
BM (30°-60°)	2344.4	11.1	B2/2500		
BH (60°-80°)	487.8	2.3	B1/500		G1/500
BVH (80°-90°)	23.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10755.6	10755.6	10755.6	10755.6	10755.6	10755.6	10755.6	10755.6	10755.6	10755.6	10755.6
2.5°	11180.6	11008.1	10789.3	10608.4	10339.0	9796.2	9648.9	9472.2	9324.9	9127.1	8849.4
5°	10166.5	10111.8	10010.8	9329.1	8836.8	8180.3	7641.7	7414.5	7115.7	6871.7	6694.9
7.5°	9392.2	9173.4	8853.6	8167.7	7380.8	6678.1	6080.6	5731.3	5335.7	5201.1	4961.2
10°	8563.3	8613.8	8142.5	7178.8	6227.8	5659.8	5289.5	4952.8	4595.1	4359.5	4018.6
12.5°	8298.2	8134.1	7772.2	6581.3	5769.2	5239.0	4788.7	4372.1	3993.4	3614.7	3286.4
15°	8470.7	8218.2	7713.3	6455.1	5415.7	4755.0	4191.2	3627.3	3278.0	2794.1	2453.3
17.5°	9089.3	8887.3	8209.8	6589.7	5234.7	4292.2	3454.8	2874.1	2339.6	1902.0	1729.5
20°	10120.2	9834.1	8984.1	6762.2	4965.4	3732.5	2802.5	2087.2	1582.2	1397.1	1300.3
22.5°	11130.1	10974.5	9901.4	7094.7	4725.6	3235.9	2104.0	1405.5	1182.4	1148.8	1085.7
25°	13053.2	12586.1	11302.7	7696.4	4540.4	2768.9	1586.4	1132.0	1001.5	976.3	984.7
27.5°	14197.8	13806.4	12598.7	8096.2	4334.2	2411.2	1342.4	1039.4	951.0	896.3	875.3
30°	15296.1	14841.6	13242.6	8331.8	3892.4	2032.5	1190.9	997.3	976.3	896.3	871.1
32.5°	16141.9	15695.8	14172.5	8685.3	3711.5	1788.4	980.5	778.5	723.8	715.4	791.1
35°	17437.9	16962.4	14967.8	8878.9	3572.6	1662.2	850.0	694.3	631.2	606.0	610.2
37.5°	18645.6	18321.6	15704.2	8954.6	3425.3	1624.3	761.6	622.8	568.1	551.2	547.0
40°	19655.5	18931.8	16402.8	9034.6	3362.2	1552.8	706.9	568.1	530.2	505.0	505.0
42.5°	20118.4	19382.0	17185.5	8988.3	3345.4	1439.1	706.9	521.8	492.3	467.1	462.9
45°	20017.4	19718.7	17534.7	8967.2	3345.4	1325.5	643.8	509.2	467.1	433.4	425.0
47.5°	20278.3	19887.0	17972.3	9055.6	3278.0	1245.6	542.8	534.4	441.8	399.8	391.3
50°	20324.6	20400.4	18734.0	9514.3	3130.7	1144.6	425.0	526.0	425.0	361.9	353.5
52°	20627.6	20156.3	18965.4	9758.3	2975.1	1068.8	357.7	450.3	408.2	336.6	328.2
52.5°	20211.0	20518.2	19020.1	9846.7	2991.9	1018.3	345.1	441.8	399.8	336.6	315.6
55°	19743.9	20038.5	18797.1	10036.1	2743.6	799.5	269.3	319.8	361.9	294.6	281.9
57.5°	17160.2	17459.0	16335.4	9190.3	2234.4	563.9	223.0	239.9	319.8	273.5	260.9
60°	15254.0	15039.4	13709.6	7667.0	1586.4	315.6	176.7	185.2	349.3	252.5	248.3
62.5°	13941.1	13482.4	11458.4	5920.6	967.8	210.4	138.9	143.1	269.3	235.6	235.6
65°	10313.8	9800.4	7612.3	3581.0	475.5	147.3	105.2	113.6	168.3	202.0	202.0
67.5°	5887.0	5689.2	3677.8	1615.9	197.8	92.6	80.0	88.4	130.4	164.1	155.7
70°	2705.7	2428.0	1413.9	340.8	92.6	63.1	63.1	71.5	105.2	122.0	113.6
72.5°	791.1	749.0	345.1	54.7	37.9	37.9	42.1	54.7	80.0	92.6	84.2
75°	58.9	37.9	25.2	16.8	16.8	25.2	33.7	54.7	80.0	88.4	71.5
77.5°	4.2	8.4	4.2	4.2	12.6	25.2	37.9	67.3	105.2	109.4	80.0
80°	4.2	4.2	0.0	4.2	12.6	25.2	42.1	75.7	117.8	126.2	67.3
82.5°	0.0	0.0	0.0	4.2	16.8	33.7	50.5	80.0	109.4	134.7	71.5
85°	0.0	0.0	0.0	4.2	25.2	46.3	58.9	21.0	12.6	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°	10755.6	10755.6	10755.6	10755.6	10755.6	10755.6	10755.6	10755.6	10755.6	10755.6	10755.6
2.5°	9047.2	8937.8	8895.7	8933.6	8921.0	8908.3	9139.8	9089.3	9080.9	9156.6	9139.8
5°	6791.7	6598.1	7128.3	6913.7	7136.8	7271.4	7296.7	7309.3	7465.0	7300.9	7515.5
7.5°	4839.2	4889.7	4885.5	5028.6	5285.2	5512.5	5647.1	5541.9	5533.5	5512.5	5419.9
10°	3867.1	3778.8	3761.9	3728.3	3808.2	4001.8	4165.9	4035.5	3942.9	4069.1	4031.3
12.5°	3160.2	3038.2	2970.8	2836.2	2840.4	2970.8	2970.8	2970.8	3063.4	3135.0	3189.7
15°	2423.8	2322.8	2322.8	2188.2	2158.7	2162.9	2230.2	2238.7	2385.9	2428.0	2449.1
17.5°	1695.8	1641.1	1704.2	1758.9	1725.3	1733.7	1758.9	1767.4	1788.4	1771.6	1813.6
20°	1304.5	1296.1	1312.9	1409.7	1481.2	1523.3	1493.8	1451.8	1426.5	1367.6	1367.6
22.5°	1106.7	1123.5	1153.0	1232.9	1325.5	1350.8	1317.1	1220.3	1144.6	1136.2	1140.4
25°	984.7	1001.5	1047.8	1098.3	1148.8	1190.9	1157.2	1085.7	1043.6	1005.7	1005.7
27.5°	908.9	917.3	942.6	980.5	1022.5	1056.2	1043.6	1005.7	959.4	942.6	904.7
30°	850.0	862.6	892.1	900.5	938.4	955.2	934.2	925.8	896.3	875.3	862.6
32.5°	820.6	816.4	837.4	845.8	850.0	862.6	837.4	850.0	845.8	812.1	799.5
35°	618.6	652.2	706.9	753.2	765.9	782.7	778.5	761.6	715.4	677.5	631.2
37.5°	555.5	576.5	606.0	643.8	694.3	715.4	706.9	664.9	610.2	584.9	576.5
40°	513.4	526.0	551.2	576.5	627.0	664.9	635.4	597.5	555.5	534.4	521.8
42.5°	475.5	479.7	492.3	517.6	555.5	614.4	563.9	513.4	496.5	483.9	475.5
45°	433.4	433.4	450.3	462.9	505.0	559.7	509.2	462.9	454.5	446.0	441.8
47.5°	399.8	404.0	412.4	429.2	462.9	500.8	467.1	429.2	408.2	404.0	395.6
50°	357.7	361.9	378.7	395.6	437.6	458.7	437.6	395.6	374.5	361.9	361.9
52°	324.0	336.6	353.5	387.1	416.6	450.3	425.0	378.7	353.5	340.8	332.4
52.5°	319.8	328.2	345.1	382.9	416.6	446.0	420.8	374.5	345.1	336.6	328.2
55°	286.1	298.8	328.2	374.5	412.4	446.0	412.4	370.3	328.2	307.2	298.8
57.5°	273.5	281.9	319.8	378.7	408.2	446.0	412.4	370.3	328.2	290.4	281.9
60°	260.9	277.7	319.8	366.1	404.0	450.3	416.6	366.1	319.8	273.5	273.5
62.5°	248.3	260.9	315.6	357.7	387.1	433.4	399.8	357.7	307.2	260.9	256.7
65°	214.6	235.6	277.7	298.8	332.4	374.5	340.8	311.4	269.3	231.4	227.2
67.5°	164.1	172.5	206.2	231.4	252.5	290.4	273.5	235.6	206.2	176.7	176.7
70°	113.6	122.0	147.3	159.9	180.9	202.0	189.4	159.9	138.9	122.0	117.8
72.5°	80.0	84.2	92.6	101.0	109.4	117.8	113.6	92.6	80.0	75.7	71.5
75°	63.1	71.5	75.7	71.5	67.3	63.1	63.1	54.7	46.3	42.1	42.1
77.5°	63.1	67.3	63.1	54.7	46.3	42.1	37.9	33.7	25.2	21.0	25.2
80°	54.7	54.7	54.7	46.3	42.1	37.9	33.7	29.5	25.2	21.0	21.0
82.5°	58.9	58.9	54.7	46.3	46.3	37.9	37.9	33.7	29.5	21.0	21.0
85°	0.0	0.0	0.0	8.4	21.0	37.9	37.9	33.7	29.5	25.2	25.2
87.5°	0.0	0.0	0.0	0.0	4.2	8.4	16.8	21.0	25.2	25.2	25.2
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°	10755.6	10755.6	10755.6	10755.6	10755.6	10755.6	10755.6	10755.6	10755.6	10755.6	10755.6
2.5°	9291.3	9451.2	9754.1	10057.1	10242.3	10461.1	10856.6	11067.0	11340.5	11475.2	11740.3
5°	7486.0	7864.7	7999.4	8344.5	8714.8	9085.1	9674.2	10322.2	10860.8	11231.1	11710.9
7.5°	5462.0	5550.3	6072.1	6303.6	6909.5	7582.8	8386.5	9202.9	9884.6	10490.5	10856.6
10°	4094.4	4418.4	4746.6	5188.5	5676.6	6370.9	7141.0	8041.5	8925.2	9531.1	9994.0
12.5°	3290.7	3547.3	3985.0	4460.5	5062.2	5520.9	6295.2	7187.3	8331.8	8925.2	9535.3
15°	2491.1	2819.4	3315.9	3808.2	4443.6	4927.6	5710.2	6833.8	8306.6	9122.9	9648.9
17.5°	1847.3	2070.3	2516.4	3067.6	3715.7	4397.4	5453.6	6795.9	8588.5	9560.6	10103.4
20°	1413.9	1489.6	1771.6	2263.9	2966.6	3858.7	5037.0	6960.0	9421.7	10625.2	11176.4
22.5°	1144.6	1178.2	1287.6	1628.5	2310.2	3387.4	4839.2	7073.6	10360.1	11900.2	12636.6
25°	997.3	988.9	1060.4	1207.7	1805.2	2945.6	4586.7	7502.9	11508.9	13398.3	14058.9
27.5°	908.9	908.9	942.6	1047.8	1498.0	2659.5	4426.8	7810.0	12666.1	14715.4	15073.0
30°	862.6	871.1	967.8	1001.5	1245.6	2318.6	4161.7	8121.4	13772.8	15557.0	16049.3
32.5°	799.5	765.9	744.8	829.0	1047.8	2011.4	3896.6	8251.9	14669.1	16587.9	17008.7
35°	614.4	597.5	622.8	685.9	900.5	1750.5	3602.0	8399.2	15700.0	17783.0	17867.1
37.5°	555.5	551.2	568.1	622.8	757.4	1523.3	3391.6	8361.3	16486.9	18771.9	18544.6
40°	513.4	513.4	526.0	572.3	677.5	1363.4	3172.8	8327.6	17248.6	19882.8	19217.9
42.5°	479.7	479.7	500.8	530.2	643.8	1258.2	3008.7	8281.3	17888.2	20564.5	19613.5
45°	433.4	446.0	479.7	509.2	652.2	1186.7	2886.7	8104.6	18107.0	20556.1	19424.1
47.5°	399.8	416.6	450.3	492.3	589.1	1165.6	2802.5	7948.9	18031.3	20051.1	18830.8
50°	361.9	382.9	429.2	500.8	500.8	1123.5	2714.2	8087.8	17976.6	19659.8	18262.7
52°	336.6	353.5	412.4	488.1	437.6	1035.2	2659.5	8357.1	18199.6	19609.3	18010.2
52.5°	332.4	345.1	399.8	479.7	416.6	1018.3	2621.6	8420.2	18271.1	19483.0	18182.7
55°	294.6	311.4	366.1	374.5	340.8	837.4	2499.5	8563.3	17917.6	19234.7	18018.6
57.5°	277.7	286.1	324.0	307.2	294.6	631.2	2150.3	8340.2	15914.6	17084.5	16764.7
60°	256.7	265.1	303.0	239.9	248.3	441.8	1615.9	7242.0	12779.7	14235.6	14812.1
62.5°	248.3	244.1	286.1	193.6	210.4	319.8	1140.4	5887.0	9846.7	11719.3	12716.6
65°	218.8	214.6	206.2	164.1	180.9	248.3	681.7	3841.9	6939.0	8866.2	9413.3
67.5°	168.3	176.7	151.5	130.4	151.5	193.6	378.7	1721.1	3639.9	5318.9	5760.7
70°	117.8	126.2	122.0	113.6	134.7	159.9	218.8	589.1	1506.5	2794.1	3080.3
72.5°	71.5	88.4	92.6	96.8	117.8	138.9	155.7	189.4	399.8	988.9	1228.7
75°	42.1	58.9	71.5	84.2	96.8	117.8	130.4	134.7	138.9	185.2	298.8
77.5°	29.5	42.1	63.1	80.0	96.8	117.8	138.9	147.3	138.9	130.4	138.9
80°	25.2	42.1	58.9	75.7	101.0	122.0	138.9	138.9	134.7	117.8	126.2
82.5°	25.2	42.1	63.1	80.0	96.8	117.8	134.7	138.9	126.2	117.8	122.0
85°	29.5	46.3	67.3	84.2	105.2	96.8	88.4	71.5	67.3	54.7	58.9
87.5°	29.5	42.1	42.1	46.3	50.5	50.5	50.5	46.3	37.9	33.7	33.7
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: P531435

CATALOG NUMBER: GALN-SA6D-727-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10755.6	10755.6	10755.6	10755.6	10755.6	10755.6	10755.6	10755.6	10755.6	10755.6
2.5°	11752.9	12089.6	12076.9	12085.4	12034.9	11694.0	11529.9	11113.3	11231.1	11180.6
5°	12203.2	12535.6	12821.8	12788.1	12401.0	11938.1	11252.2	10604.1	10427.4	10166.5
7.5°	11752.9	12552.5	12817.6	12779.7	12207.4	11614.1	10520.0	9872.0	9564.8	9392.2
10°	11037.6	11963.3	12291.6	12358.9	11971.7	11071.2	10065.5	9026.2	8862.0	8563.3
12.5°	10629.4	11302.7	11504.7	11685.6	11550.9	10877.7	9720.5	8723.2	8495.9	8298.2
15°	10297.0	10696.7	10780.9	10987.1	11067.0	10705.1	9901.4	9051.4	8491.7	8470.7
17.5°	10604.1	10440.0	10132.9	10196.0	10448.5	10709.3	10368.5	9699.4	9156.6	9089.3
20°	11113.3	10389.5	9695.2	9850.9	10061.3	10860.8	11075.4	10604.1	10292.8	10120.2
22.5°	11698.2	10477.9	9556.4	9632.1	10031.9	11201.7	12220.0	11959.1	11378.4	11130.1
25°	12779.7	10722.0	9665.8	9716.3	10263.3	11677.2	13255.2	13448.8	13103.7	13053.2
27.5°	13835.9	11353.2	9905.6	9792.0	10381.1	12140.1	13882.2	14921.6	14315.6	14197.8
30°	14374.5	11866.5	10263.3	10069.7	10869.3	12422.0	14260.9	15881.0	15350.8	15296.1
32.5°	15199.3	12333.6	10541.0	10292.8	11142.8	12771.3	14967.8	16928.8	16415.4	16141.9
35°	15544.3	12842.8	11151.2	10860.8	11925.5	13259.4	15329.7	17862.9	17703.0	17437.9
37.5°	16209.2	13389.8	11870.8	11853.9	12872.3	13894.8	15982.0	19133.8	19104.3	18645.6
40°	16263.9	13987.4	13006.9	13537.1	14336.6	15001.5	16554.3	19487.2	19966.9	19655.5
42.5°	16348.1	15035.2	14972.0	15409.7	16095.6	15952.5	16575.3	19571.4	20303.6	20118.4
45°	16385.9	16083.0	16970.8	17778.8	18064.9	17198.1	16377.5	19411.5	20480.3	20017.4
47.5°	16083.0	16983.5	18586.7	20147.9	20232.0	17963.9	16293.4	19247.4	20585.5	20278.3
50°	16125.0	17547.3	19983.8	21380.8	21073.6	18641.4	16162.9	19146.4	20530.8	20324.6
52°	16024.0	17560.0	20181.5	21355.6	21141.0	18266.9	15939.9	18759.2	20480.3	20627.6
52.5°	16137.7	17484.2	19975.4	21372.4	21094.7	18452.1	15910.4	18973.9	20509.8	20211.0
55°	15746.3	16583.7	18767.7	19361.0	19318.9	16747.8	15005.7	18262.7	19739.7	19743.9
57.5°	14231.4	14374.5	14719.6	14706.9	14513.4	13166.8	12834.4	16794.1	17597.8	17160.2
60°	12539.8	10524.2	9594.2	9215.5	9000.9	8782.1	11353.2	15363.4	15439.1	15254.0
62.5°	10835.6	7296.7	6059.5	5954.3	6004.8	6804.3	10974.5	14795.3	14340.8	13941.1
65°	8744.2	5318.9	4401.6	4262.7	4755.0	5617.7	8883.1	11344.8	10646.2	10313.8
67.5°	5491.4	3879.8	2975.1	2714.2	3307.5	3867.1	5836.5	7128.3	6345.7	5887.0
70°	3257.0	2167.1	1346.6	1207.7	1359.2	2061.9	3269.6	3555.8	2941.4	2705.7
72.5°	1283.4	795.3	374.5	319.8	332.4	723.8	1203.5	1174.0	887.9	791.1
75°	345.1	239.9	130.4	105.2	88.4	134.7	193.6	126.2	46.3	58.9
77.5°	159.9	143.1	113.6	88.4	67.3	50.5	25.2	8.4	8.4	4.2
80°	138.9	122.0	105.2	88.4	67.3	42.1	21.0	4.2	4.2	4.2
82.5°	130.4	113.6	96.8	80.0	63.1	42.1	21.0	4.2	0.0	0.0
85°	54.7	71.5	80.0	75.7	67.3	42.1	21.0	4.2	0.0	0.0
87.5°	29.5	25.2	21.0	16.8	12.6	8.4	8.4	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)