

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: P533307

Luminaire Tested: **GALN-SA8D-727-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533307  
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-SA8D-727-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 28881 lumens  
Efficiency: N/A  
Efficacy: 58.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2

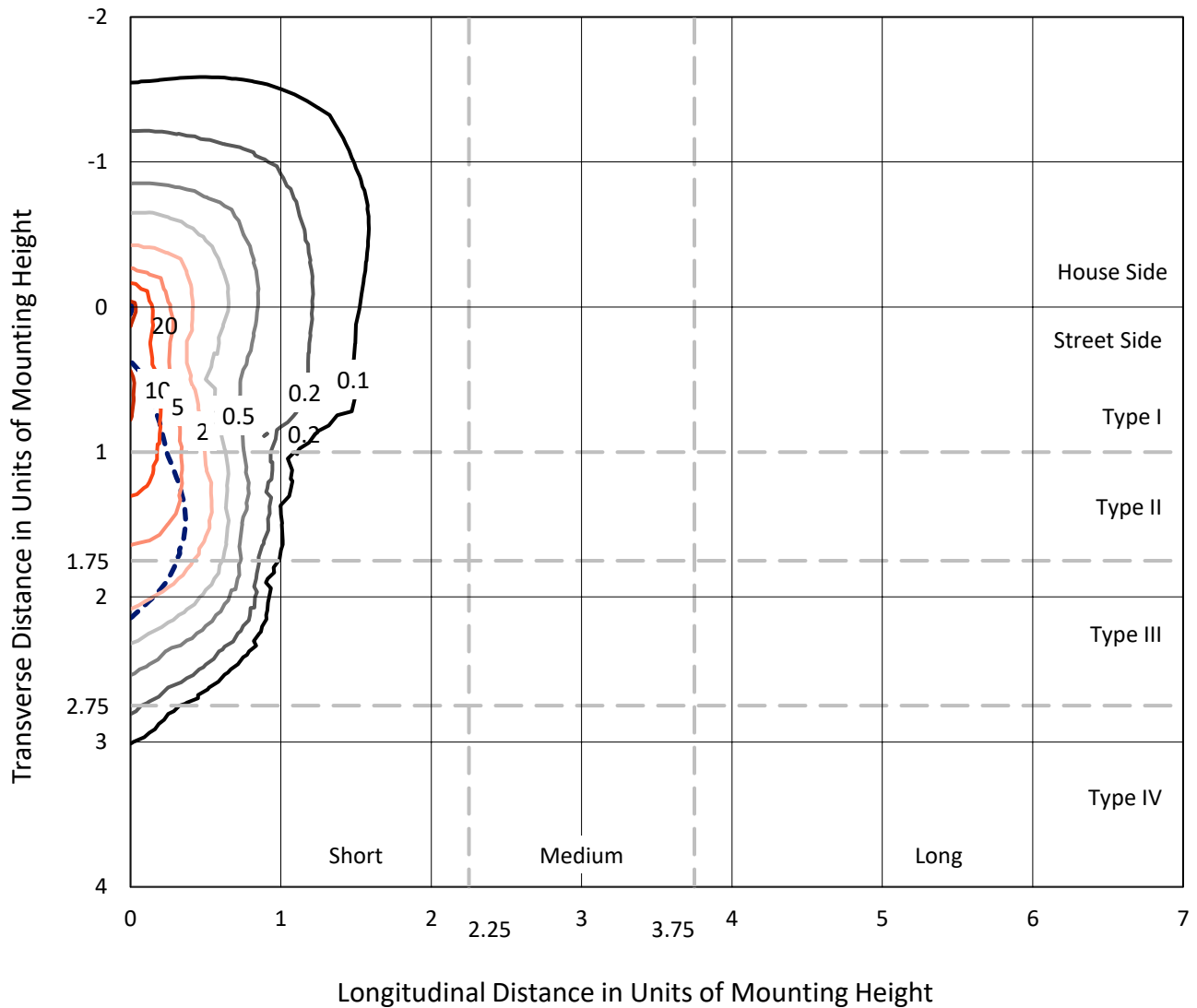
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

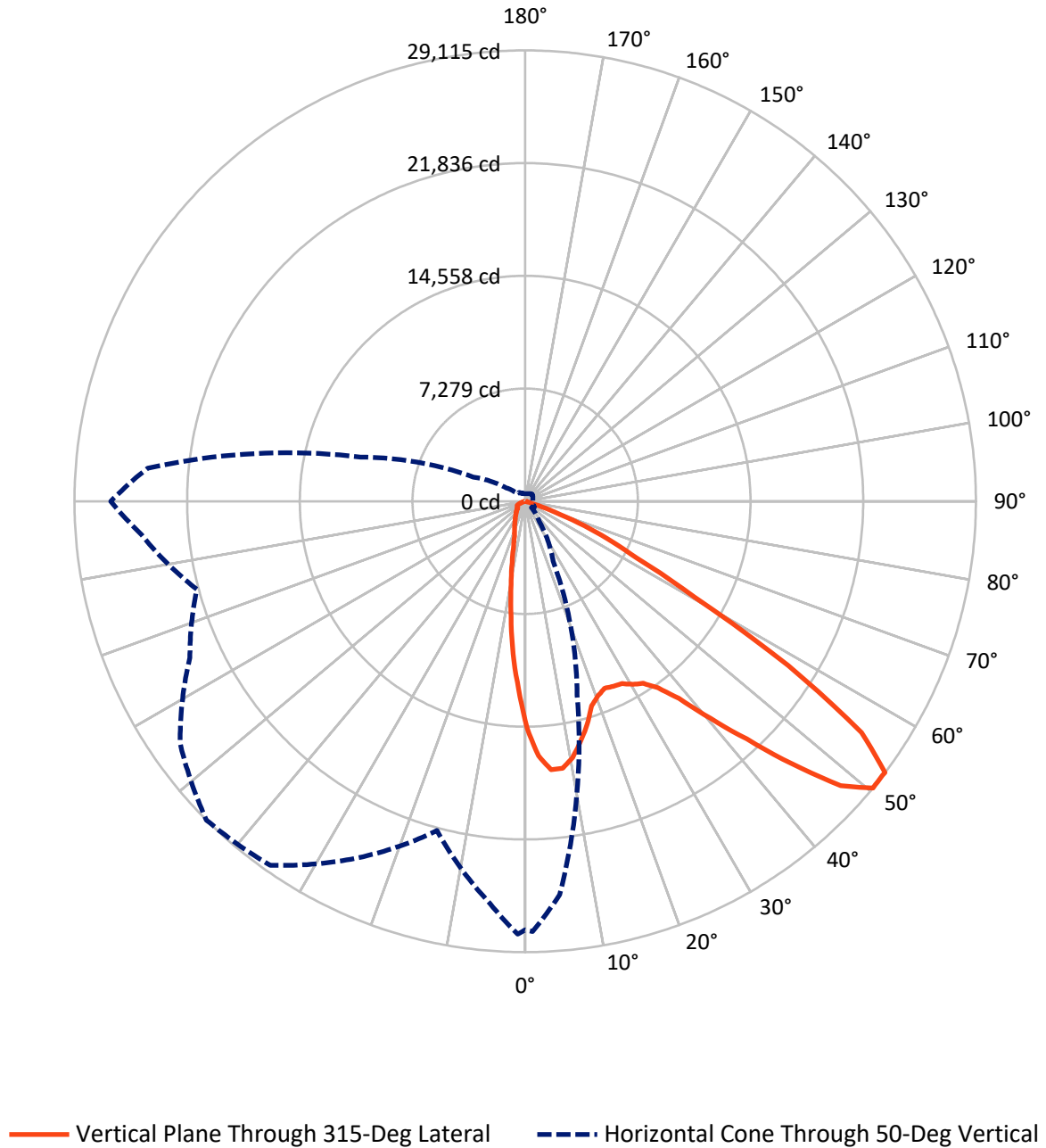
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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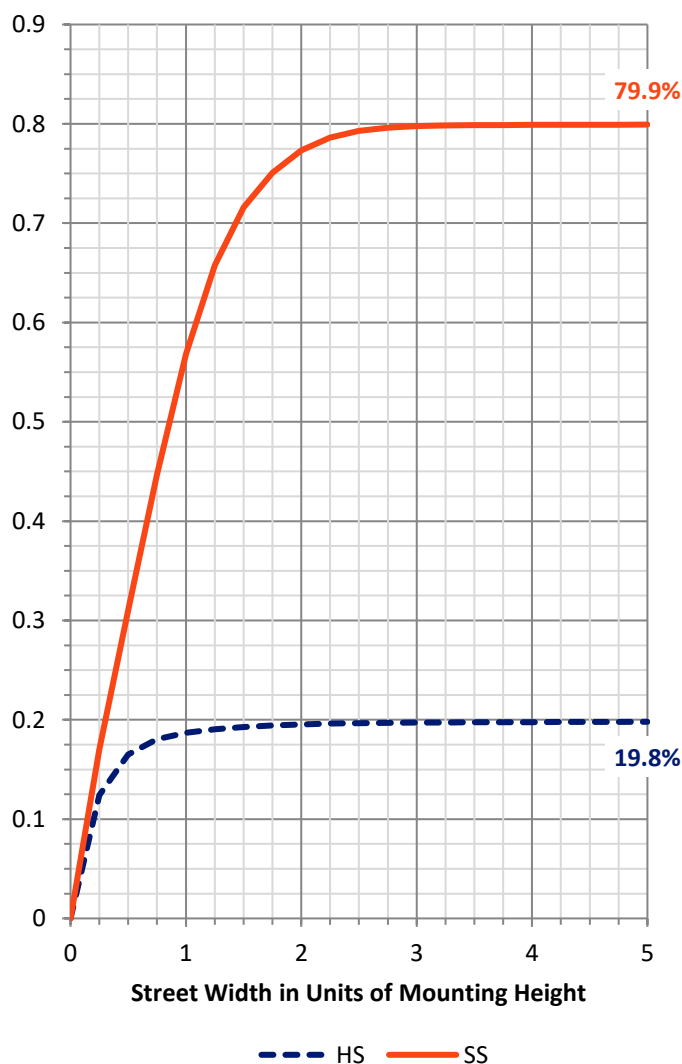
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5784.9	0.0	5784.9
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	23096.1	0.0	23096.1
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	28881.0	0.0	28881.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1067.6	3.7
10°-20°	2121.7	7.3
20°-30°	3187.5	11.0
30°-40°	4784.3	16.6
40°-50°	6724.0	23.3
50°-60°	7253.1	25.1
60°-70°	3367.6	11.7
70°-80°	316.9	1.1
80°-90°	58.4	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°	28881.0	100.0
0°-180°	28881.0	100.0

**Coefficient of Utilization**



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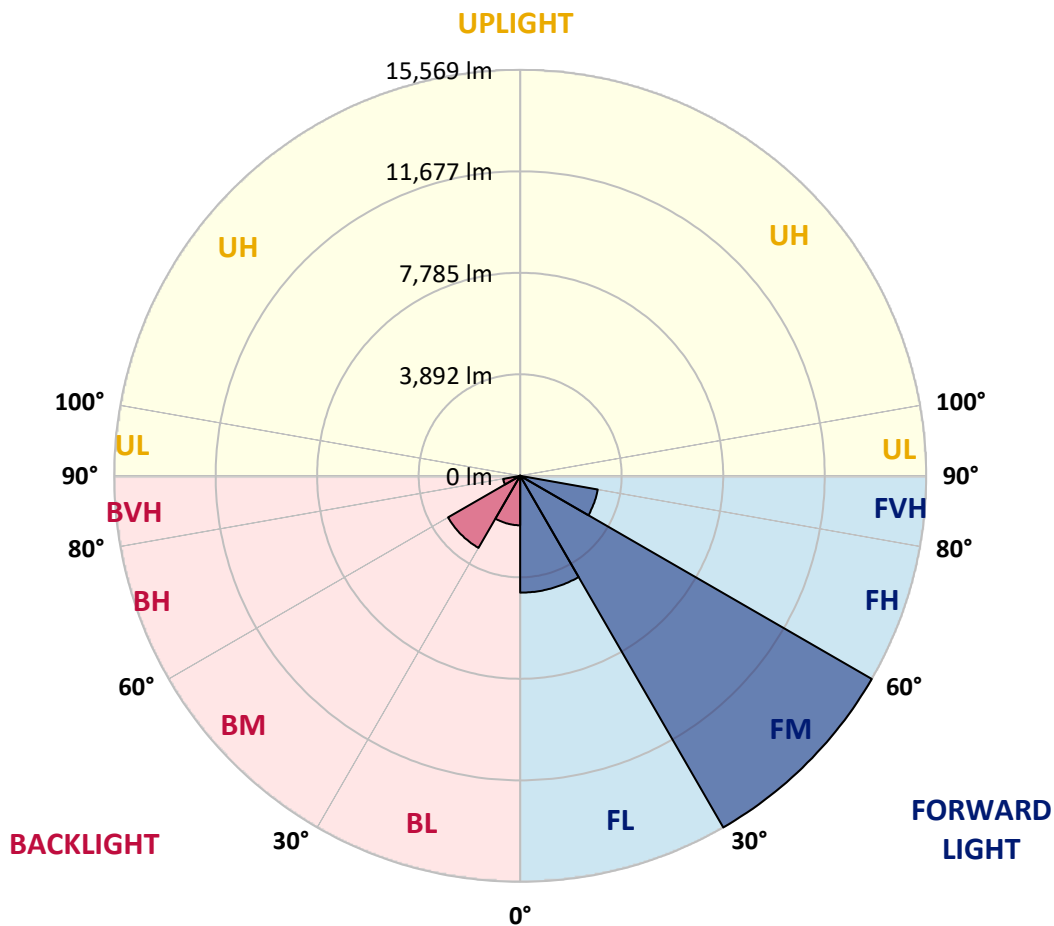
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4480.6	15.5			
FM (30°-60°)	15569.0	53.9			
FH (60°-80°)	3020.2	10.5			G2/5000
FVH (80°-90°)	26.3	0.1			G1/100
BL (0°-30°)	1896.1	6.6	B3/2500		
BM (30°-60°)	3192.4	11.1	B3/5000		
BH (60°-80°)	664.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	32.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	14646.3	14646.3	14646.3	14646.3	14646.3	14646.3	14646.3	14646.3	14646.3	14646.3	14646.3
2.5°	15225.1	14990.1	14692.1	14445.8	14079.0	13339.8	13139.3	12898.6	12698.1	12428.7	12050.5
5°	13844.1	13769.6	13632.1	12703.8	12033.4	11139.4	10406.0	10096.6	9689.7	9357.4	9116.7
7.5°	12789.7	12491.8	12056.3	11122.3	10050.7	9093.8	8280.1	7804.5	7265.9	7082.5	6755.9
10°	11660.9	11729.7	11087.9	9775.7	8480.6	7707.1	7202.8	6744.4	6257.3	5936.5	5472.3
12.5°	11299.9	11076.4	10583.6	8962.0	7856.1	7134.1	6520.9	5953.6	5437.9	4922.2	4475.3
15°	11534.8	11191.0	10503.4	8790.1	7374.7	6475.1	5707.2	4939.4	4463.8	3804.8	3340.7
17.5°	12377.2	12102.1	11179.6	8973.4	7128.3	5844.8	4704.5	3913.7	3186.0	2590.0	2355.1
20°	13781.1	13391.4	12233.9	9208.4	6761.6	5082.7	3816.3	2842.2	2154.5	1902.4	1770.6
22.5°	15156.3	14944.3	13483.1	9661.1	6435.0	4406.5	2865.1	1913.9	1610.2	1564.3	1478.4
25°	17775.0	17138.9	15391.2	10480.5	6182.9	3770.5	2160.3	1541.4	1363.8	1329.4	1340.9
27.5°	19333.6	18800.7	17156.1	11024.8	5902.1	3283.4	1827.9	1415.4	1295.0	1220.5	1191.9
30°	20829.2	20210.3	18032.8	11345.7	5300.4	2767.7	1621.6	1358.0	1329.4	1220.5	1186.1
32.5°	21980.9	21373.5	19299.2	11827.1	5054.0	2435.3	1335.1	1060.1	985.6	974.1	1077.3
35°	23745.8	23098.3	20382.2	12090.7	4864.9	2263.4	1157.5	945.5	859.5	825.1	830.9
37.5°	25390.4	24949.1	21385.0	12193.8	4664.4	2211.8	1037.2	848.1	773.6	750.7	744.9
40°	26765.6	25780.0	22336.2	12302.7	4578.4	2114.4	962.7	773.6	722.0	687.6	687.6
42.5°	27395.9	26393.2	23402.0	12239.6	4555.5	1959.7	962.7	710.5	670.4	636.0	630.3
45°	27258.4	26851.6	23877.6	12211.0	4555.5	1805.0	876.7	693.4	636.0	590.2	578.7
47.5°	27613.7	27080.8	24473.5	12331.3	4463.8	1696.1	739.2	727.7	601.7	544.4	532.9
50°	27676.7	27779.9	25510.7	12955.9	4263.2	1558.6	578.7	716.3	578.7	492.8	481.3
52°	28089.3	27447.5	25825.9	13288.3	4051.2	1455.5	487.1	613.1	555.8	458.4	447.0
52.5°	27522.0	27940.3	25900.4	13408.6	4074.1	1386.7	469.9	601.7	544.4	458.4	429.8
55°	26885.9	27287.1	25596.7	13666.4	3736.1	1088.7	366.7	435.5	492.8	401.1	383.9
57.5°	23367.6	23774.5	22244.5	12514.7	3042.7	767.8	303.7	326.6	435.5	372.5	355.3
60°	20771.9	20479.6	18668.9	10440.4	2160.3	429.8	240.7	252.1	475.6	343.8	338.1
62.5°	18984.0	18359.5	15603.2	8062.3	1317.9	286.5	189.1	194.8	366.7	320.9	320.9
65°	14044.6	13345.6	10365.9	4876.4	647.5	200.6	143.3	154.7	229.2	275.0	275.0
67.5°	8016.5	7747.2	5008.2	2200.4	269.3	126.1	108.9	120.3	177.6	223.5	212.0
70°	3684.5	3306.3	1925.3	464.1	126.1	86.0	86.0	97.4	143.3	166.2	154.7
72.5°	1077.3	1020.0	469.9	74.5	51.6	51.6	57.3	74.5	108.9	126.1	114.6
75°	80.2	51.6	34.4	22.9	22.9	34.4	45.8	74.5	108.9	120.3	97.4
77.5°	5.7	11.5	5.7	5.7	17.2	34.4	51.6	91.7	143.3	149.0	108.9
80°	5.7	5.7	0.0	5.7	17.2	34.4	57.3	103.1	160.4	171.9	91.7
82.5°	0.0	0.0	0.0	5.7	22.9	45.8	68.8	108.9	149.0	183.4	97.4
85°	0.0	0.0	0.0	5.7	34.4	63.0	80.2	28.7	17.2	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°	14646.3	14646.3	14646.3	14646.3	14646.3	14646.3	14646.3	14646.3	14646.3	14646.3	14646.3
2.5°	12319.9	12170.9	12113.6	12165.1	12148.0	12130.8	12445.9	12377.2	12365.7	12468.8	12445.9
5°	9248.5	8984.9	9706.9	9414.7	9718.4	9901.7	9936.1	9953.3	10165.3	9941.8	10234.1
7.5°	6589.7	6658.5	6652.7	6847.5	7197.1	7506.5	7689.9	7546.6	7535.2	7506.5	7380.5
10°	5266.0	5145.7	5122.8	5076.9	5185.8	5449.4	5672.9	5495.2	5369.2	5541.1	5489.5
12.5°	4303.4	4137.2	4045.5	3862.1	3867.9	4045.5	4045.5	4045.5	4171.6	4269.0	4343.5
15°	3300.6	3163.1	3163.1	2979.7	2939.6	2945.3	3037.0	3048.4	3249.0	3306.3	3335.0
17.5°	2309.3	2234.8	2320.7	2395.2	2349.4	2360.8	2395.2	2406.7	2435.3	2412.4	2469.7
20°	1776.4	1764.9	1787.8	1919.6	2017.0	2074.3	2034.2	1976.9	1942.5	1862.3	1862.3
22.5°	1507.0	1530.0	1570.1	1678.9	1805.0	1839.4	1793.5	1661.7	1558.6	1547.1	1552.9
25°	1340.9	1363.8	1426.8	1495.6	1564.3	1621.6	1575.8	1478.4	1421.1	1369.5	1369.5
27.5°	1237.7	1249.2	1283.6	1335.1	1392.4	1438.3	1421.1	1369.5	1306.5	1283.6	1232.0
30°	1157.5	1174.7	1214.8	1226.3	1277.8	1300.7	1272.1	1260.6	1220.5	1191.9	1174.7
32.5°	1117.4	1111.7	1140.3	1151.8	1157.5	1174.7	1140.3	1157.5	1151.8	1105.9	1088.7
35°	842.3	888.2	962.7	1025.7	1042.9	1065.8	1060.1	1037.2	974.1	922.6	859.5
37.5°	756.4	785.0	825.1	876.7	945.5	974.1	962.7	905.4	830.9	796.5	785.0
40°	699.1	716.3	750.7	785.0	853.8	905.4	865.3	813.7	756.4	727.7	710.5
42.5°	647.5	653.2	670.4	704.8	756.4	836.6	767.8	699.1	676.2	659.0	647.5
45°	590.2	590.2	613.1	630.3	687.6	762.1	693.4	630.3	618.9	607.4	601.7
47.5°	544.4	550.1	561.6	584.5	630.3	681.9	636.0	584.5	555.8	550.1	538.6
50°	487.1	492.8	515.7	538.6	595.9	624.6	595.9	538.6	510.0	492.8	492.8
52°	441.2	458.4	481.3	527.2	567.3	613.1	578.7	515.7	481.3	464.1	452.7
52.5°	435.5	447.0	469.9	521.4	567.3	607.4	573.0	510.0	469.9	458.4	447.0
55°	389.7	406.8	447.0	510.0	561.6	607.4	561.6	504.3	447.0	418.3	406.8
57.5°	372.5	383.9	435.5	515.7	555.8	607.4	561.6	504.3	447.0	395.4	383.9
60°	355.3	378.2	435.5	498.5	550.1	613.1	567.3	498.5	435.5	372.5	372.5
62.5°	338.1	355.3	429.8	487.1	527.2	590.2	544.4	487.1	418.3	355.3	349.5
65°	292.2	320.9	378.2	406.8	452.7	510.0	464.1	424.0	366.7	315.2	309.4
67.5°	223.5	234.9	280.8	315.2	343.8	395.4	372.5	320.9	280.8	240.7	240.7
70°	154.7	166.2	200.6	217.7	246.4	275.0	257.9	217.7	189.1	166.2	160.4
72.5°	108.9	114.6	126.1	137.5	149.0	160.4	154.7	126.1	108.9	103.1	97.4
75°	86.0	97.4	103.1	97.4	91.7	86.0	86.0	74.5	63.0	57.3	57.3
77.5°	86.0	91.7	86.0	74.5	63.0	57.3	51.6	45.8	34.4	28.7	34.4
80°	74.5	74.5	74.5	63.0	57.3	51.6	45.8	40.1	34.4	28.7	28.7
82.5°	80.2	80.2	74.5	63.0	63.0	51.6	51.6	45.8	40.1	28.7	28.7
85°	0.0	0.0	0.0	11.5	28.7	51.6	51.6	45.8	40.1	34.4	34.4
87.5°	0.0	0.0	0.0	0.0	5.7	11.5	22.9	28.7	34.4	34.4	34.4
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°	14646.3	14646.3	14646.3	14646.3	14646.3	14646.3	14646.3	14646.3	14646.3	14646.3	14646.3
2.5°	12652.2	12870.0	13282.5	13695.1	13947.2	14245.2	14783.8	15070.3	15442.8	15626.2	15987.2
5°	10194.0	10709.7	10893.0	11362.9	11867.2	12371.4	13173.7	14056.1	14789.6	15293.8	15947.1
7.5°	7437.8	7558.1	8268.6	8583.8	9408.9	10325.8	11420.2	12531.9	13460.2	14285.3	14783.8
10°	5575.5	6016.7	6463.6	7065.3	7730.0	8675.5	9724.1	10950.3	12153.7	12978.8	13609.1
12.5°	4481.0	4830.5	5426.5	6074.0	6893.4	7518.0	8572.3	9787.1	11345.7	12153.7	12984.6
15°	3392.3	3839.2	4515.4	5185.8	6051.1	6710.0	7775.8	9305.8	11311.4	12423.0	13139.3
17.5°	2515.5	2819.2	3426.6	4177.3	5059.7	5988.0	7426.3	9254.2	11695.3	13018.9	13758.1
20°	1925.3	2028.5	2412.4	3082.8	4039.8	5254.6	6859.0	9477.7	12829.8	14468.7	15219.3
22.5°	1558.6	1604.4	1753.4	2217.6	3145.9	4612.8	6589.7	9632.4	14107.7	16204.9	17207.7
25°	1358.0	1346.6	1444.0	1644.6	2458.2	4011.1	6245.9	10216.9	15672.0	18244.9	19144.5
27.5°	1237.7	1237.7	1283.6	1426.8	2039.9	3621.5	6028.1	10635.2	17247.8	20038.4	20525.5
30°	1174.7	1186.1	1317.9	1363.8	1696.1	3157.3	5667.1	11059.2	18754.8	21184.4	21854.9
32.5°	1088.7	1042.9	1014.2	1128.8	1426.8	2739.0	5306.1	11236.9	19975.4	22588.3	23161.3
35°	836.6	813.7	848.1	934.0	1226.3	2383.7	4905.0	11437.4	21379.3	24215.7	24330.3
37.5°	756.4	750.7	773.6	848.1	1031.4	2074.3	4618.5	11385.8	22450.8	25562.3	25252.8
40°	699.1	699.1	716.3	779.3	922.6	1856.6	4320.5	11340.0	23488.0	27075.0	26169.7
42.5°	653.2	653.2	681.9	722.0	876.7	1713.3	4097.1	11277.0	24358.9	28003.3	26708.3
45°	590.2	607.4	653.2	693.4	888.2	1615.9	3930.9	11036.3	24656.9	27991.9	26450.5
47.5°	544.4	567.3	613.1	670.4	802.2	1587.3	3816.3	10824.3	24553.8	27304.2	25642.5
50°	492.8	521.4	584.5	681.9	681.9	1530.0	3696.0	11013.4	24479.3	26771.3	24868.9
52°	458.4	481.3	561.6	664.7	595.9	1409.6	3621.5	11380.1	24783.0	26702.6	24525.1
52.5°	452.7	469.9	544.4	653.2	567.3	1386.7	3569.9	11466.1	24880.4	26530.7	24760.1
55°	401.1	424.0	498.5	510.0	464.1	1140.3	3403.7	11660.9	24399.1	26192.6	24536.6
57.5°	378.2	389.7	441.2	418.3	401.1	859.5	2928.1	11357.2	21671.5	23264.5	22829.0
60°	349.5	361.0	412.6	326.6	338.1	601.7	2200.4	9861.6	17402.5	19385.2	20170.2
62.5°	338.1	332.3	389.7	263.6	286.5	435.5	1552.9	8016.5	13408.6	15958.5	17316.6
65°	298.0	292.2	280.8	223.5	246.4	338.1	928.3	5231.6	9449.0	12073.5	12818.4
67.5°	229.2	240.7	206.3	177.6	206.3	263.6	515.7	2343.6	4956.6	7242.9	7844.6
70°	160.4	171.9	166.2	154.7	183.4	217.7	298.0	802.2	2051.4	3804.8	4194.5
72.5°	97.4	120.3	126.1	131.8	160.4	189.1	212.0	257.9	544.4	1346.6	1673.2
75°	57.3	80.2	97.4	114.6	131.8	160.4	177.6	183.4	189.1	252.1	406.8
77.5°	40.1	57.3	86.0	108.9	131.8	160.4	189.1	200.6	189.1	177.6	189.1
80°	34.4	57.3	80.2	103.1	137.5	166.2	189.1	189.1	183.4	160.4	171.9
82.5°	34.4	57.3	86.0	108.9	131.8	160.4	183.4	189.1	171.9	160.4	166.2
85°	40.1	63.0	91.7	114.6	143.3	131.8	120.3	97.4	91.7	74.5	80.2
87.5°	40.1	57.3	57.3	63.0	68.8	68.8	68.8	63.0	51.6	45.8	45.8
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: P533307

CATALOG NUMBER: GALN-SA8D-727-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14646.3	14646.3	14646.3	14646.3	14646.3	14646.3	14646.3	14646.3	14646.3	14646.3
2.5°	16004.4	16462.8	16445.6	16457.0	16388.3	15924.1	15700.7	15133.4	15293.8	15225.1
5°	16617.5	17070.2	17459.8	17414.0	16886.8	16256.5	15322.5	14440.0	14199.4	13844.1
7.5°	16004.4	17093.1	17454.1	17402.5	16623.2	15815.3	14325.4	13443.0	13024.7	12789.7
10°	15030.2	16290.9	16737.8	16829.5	16302.3	15076.1	13706.6	12291.2	12067.7	11660.9
12.5°	14474.4	15391.2	15666.3	15912.7	15729.3	14812.5	13236.7	11878.6	11569.2	11299.9
15°	14021.7	14566.1	14680.7	14961.5	15070.3	14577.5	13483.1	12325.6	11563.5	11534.8
17.5°	14440.0	14216.5	13798.2	13884.2	14228.0	14583.3	14119.1	13208.0	12468.8	12377.2
20°	15133.4	14147.8	13202.3	13414.3	13700.8	14789.6	15081.8	14440.0	14016.0	13781.1
22.5°	15929.9	14268.1	13013.2	13116.4	13660.7	15253.7	16640.4	16285.1	15494.4	15156.3
25°	17402.5	14600.5	13162.2	13231.0	13975.9	15901.2	18050.0	18313.6	17843.7	17775.0
27.5°	18840.8	15460.0	13488.8	13334.1	14136.3	16531.5	18903.8	20319.2	19494.0	19333.6
30°	19574.3	16159.1	13975.9	13712.3	14801.0	16915.5	19419.5	21625.7	20903.7	20829.2
32.5°	20697.4	16795.1	14354.1	14016.0	15173.5	17391.1	20382.2	23052.5	22353.4	21980.9
35°	21167.2	17488.5	15184.9	14789.6	16239.3	18055.8	20875.0	24324.6	24106.8	23745.8
37.5°	22072.6	18233.4	16164.8	16141.9	17528.6	18921.0	21763.2	26055.1	26015.0	25390.4
40°	22147.1	19047.1	17711.9	18433.9	19522.7	20428.0	22542.5	26536.4	27189.6	26765.6
42.5°	22261.7	20473.9	20387.9	20983.9	21917.9	21723.1	22571.1	26651.0	27648.1	27395.9
45°	22313.3	21900.7	23109.8	24210.0	24599.6	23419.2	22301.8	26433.3	27888.7	27258.4
47.5°	21900.7	23127.0	25310.1	27436.0	27550.6	24462.1	22187.2	26209.8	28032.0	27613.7
50°	21958.0	23894.8	27212.6	29115.0	28696.7	25384.6	22009.6	26072.3	27957.5	27676.7
52°	21820.5	23912.0	27481.9	29080.6	28788.4	24874.7	21705.9	25545.1	27888.7	28089.3
52.5°	21975.2	23808.8	27201.1	29103.5	28725.3	25126.8	21665.8	25837.3	27928.8	27522.0
55°	21442.3	22582.6	25556.5	26364.5	26307.2	22806.1	20433.8	24868.9	26880.2	26885.9
57.5°	19379.4	19574.3	20044.1	20026.9	19763.3	17929.7	17477.0	22869.1	23963.6	23367.6
60°	17075.9	14331.1	13064.8	12549.1	12256.8	11958.9	15460.0	20920.8	21024.0	20771.9
62.5°	14755.2	9936.1	8251.4	8108.2	8176.9	9265.7	14944.3	20147.3	19528.4	18984.0
65°	11907.3	7242.9	5993.8	5804.7	6475.1	7649.8	12096.4	15448.5	14497.3	14044.6
67.5°	7477.9	5283.2	4051.2	3696.0	4503.9	5266.0	7947.7	9706.9	8641.1	8016.5
70°	4435.1	2951.0	1833.7	1644.6	1850.8	2807.8	4452.3	4842.0	4005.4	3684.5
72.5°	1747.7	1083.0	510.0	435.5	452.7	985.6	1638.8	1598.7	1209.1	1077.3
75°	469.9	326.6	177.6	143.3	120.3	183.4	263.6	171.9	63.0	80.2
77.5°	217.7	194.8	154.7	120.3	91.7	68.8	34.4	11.5	11.5	5.7
80°	189.1	166.2	143.3	120.3	91.7	57.3	28.7	5.7	5.7	5.7
82.5°	177.6	154.7	131.8	108.9	86.0	57.3	28.7	5.7	0.0	0.0
85°	74.5	97.4	108.9	103.1	91.7	57.3	28.7	5.7	0.0	0.0
87.5°	40.1	34.4	28.7	22.9	17.2	11.5	11.5	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)