

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: P531901

Luminaire Tested: **GALN-SA7B-727-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531901  
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-SA7B-727-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 800mA 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: 18324 lumens  
Efficiency: N/A  
Efficacy: 64.1 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

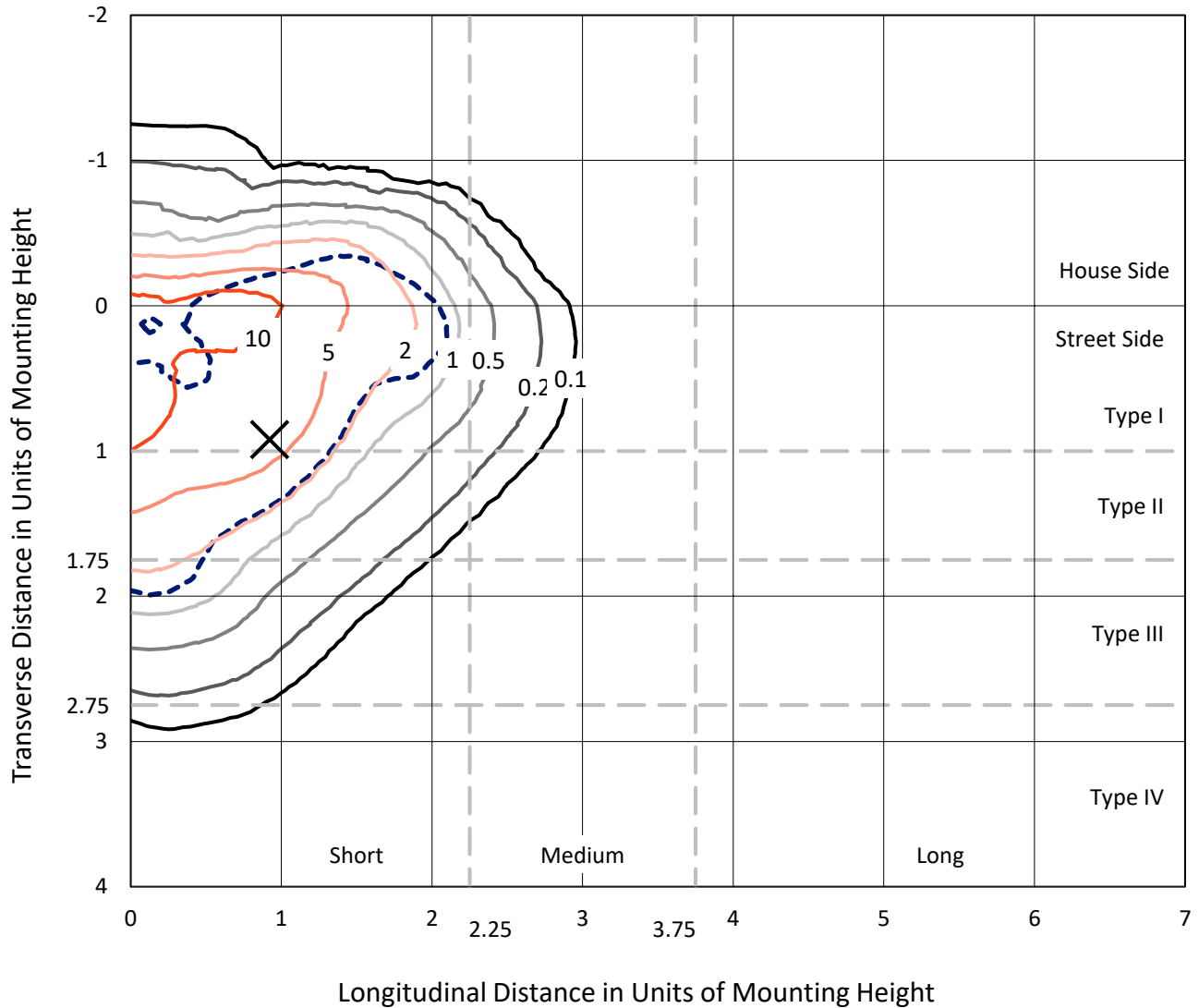
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

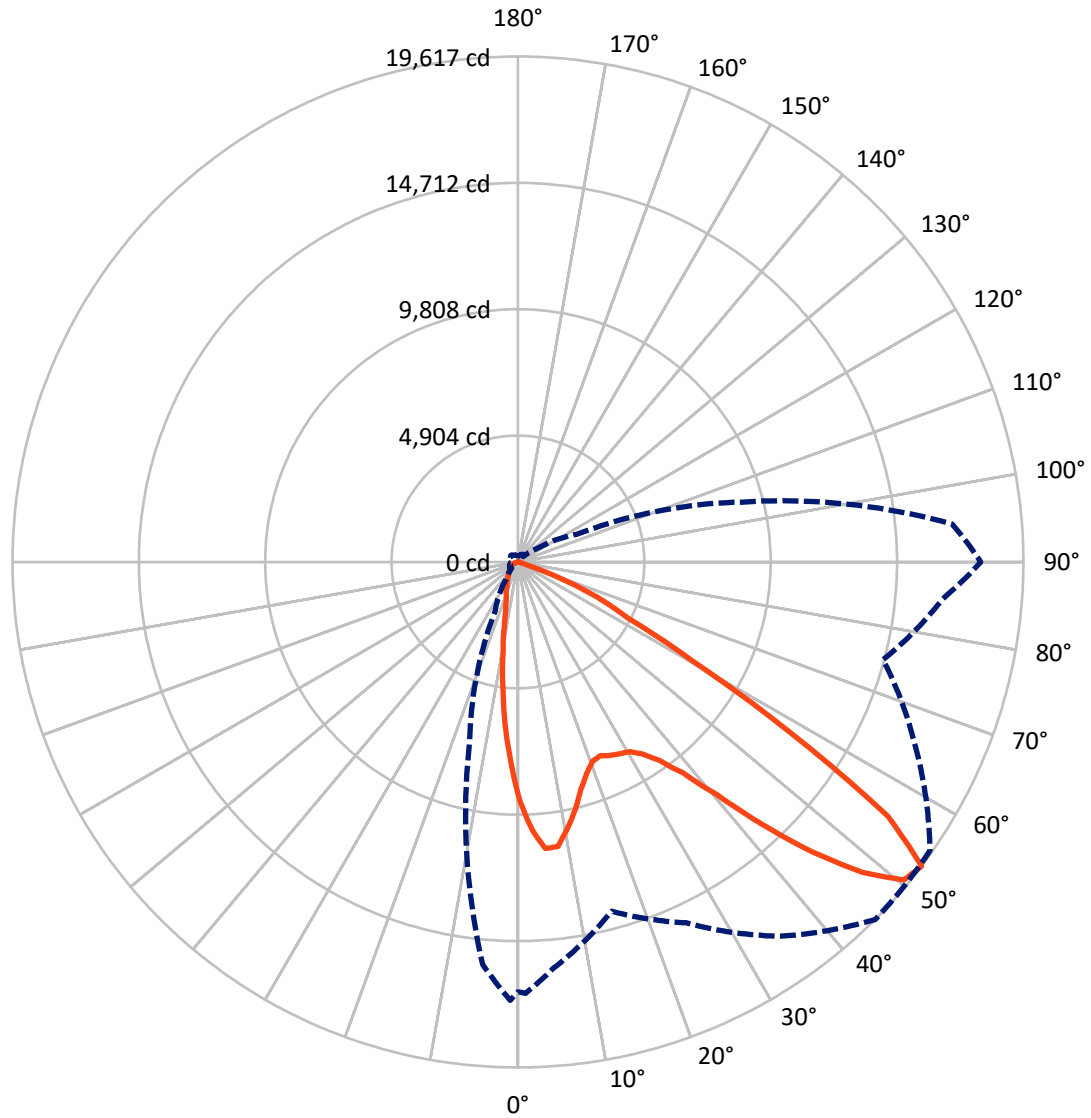
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 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	3718.9	0.0	3718.9
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	14605.1	0.0	14605.1
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	18324.0	0.0	18324.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	677.6	3.7
10°-20°	1336.9	7.3
20°-30°	2034.5	11.1
30°-40°	3040.8	16.6
40°-50°	4330.3	23.6
50°-60°	4655.0	25.4
60°-70°	2062.7	11.3
70°-80°	166.9	0.9
80°-90°	19.4	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°	18324.0	100.0
0°-180°	18324.0	100.0

**Coefficient of Utilization**

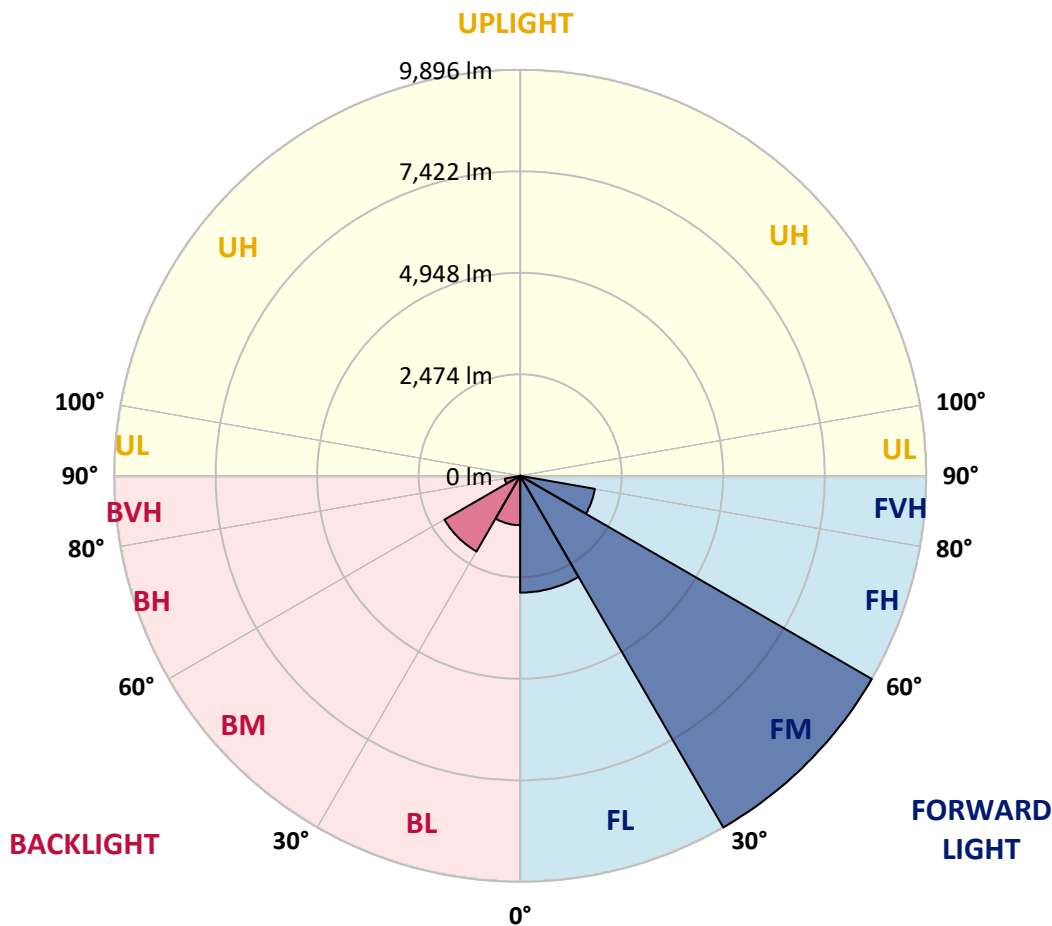


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2846.1	15.5			
FM (30°-60°)	9895.5	54.0			
FH (60°-80°)	1849.1	10.1			G2/5000
FVH (80°-90°)	14.4	0.1			G1/100
BL (0°-30°)	1202.8	6.6	B3/2500		
BM (30°-60°)	2130.5	11.6	B2/2500		
BH (60°-80°)	380.5	2.1	B1/500		G1/500
BVH (80°-90°)	5.0	0.0			G0/10
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°	9291.1	9291.1	9291.1	9291.1	9291.1	9291.1	9291.1	9291.1	9291.1	9291.1	9291.1
2.5°	9831.7	9860.6	10019.1	10217.3	10321.9	10559.7	10393.9	10437.2	10347.1	10029.9	9781.3
5°	9532.6	9529.0	9730.8	10221.0	10685.9	11158.0	11172.4	10920.1	10476.8	9990.3	9294.7
7.5°	8631.6	8772.1	8981.2	9763.2	10624.6	10977.8	11147.2	10851.7	10170.5	9474.9	8721.7
10°	7950.4	8022.5	8375.7	9320.0	9950.7	10422.8	10527.3	10357.9	9835.3	8966.8	8123.4
12.5°	7557.6	7593.6	8008.1	8801.0	9467.7	9817.3	9867.8	9947.0	9572.2	8757.7	7745.0
15°	7561.2	7590.0	8148.7	8811.8	9074.9	8981.2	9147.0	9143.4	9305.5	8718.1	8062.2
17.5°	8105.4	8137.8	8642.4	8970.4	8855.0	8635.2	8624.4	8790.2	9132.5	9211.8	8541.5
20°	9042.4	9118.1	9489.3	9471.3	8822.6	8379.3	8256.8	8382.9	9179.4	9629.9	9507.4
22.5°	10303.8	10408.4	10667.8	10170.5	8970.4	8206.3	8166.7	8411.7	9489.3	10563.3	10603.0
25°	11767.1	11943.7	12069.8	11431.9	9496.5	8505.4	8318.0	8739.7	9907.4	11576.1	11997.7
27.5°	12736.5	12920.4	12891.5	11979.7	9849.7	8584.7	8426.2	8819.0	10271.4	11817.5	12725.7
30°	13493.4	13605.1	13806.9	12275.2	10202.9	8808.2	8537.9	9154.2	10390.3	12235.6	13605.1
32.5°	14376.4	14452.1	14466.5	12797.8	10747.1	9089.3	8883.9	9572.2	10916.5	12635.6	14383.6
35°	15266.6	15378.3	15144.0	13442.9	11082.3	9611.9	9460.5	10296.6	11338.2	13050.1	15241.3
37.5°	16232.4	16290.1	15749.5	13709.6	11561.6	10462.4	10379.5	11078.7	12069.8	13799.7	16192.8
40°	17043.3	17097.4	16394.6	14037.6	12066.2	11651.7	11864.4	12570.8	13064.5	14286.3	16668.5
42.5°	17493.8	17620.0	16610.8	13857.4	13078.9	12999.6	13943.9	14192.6	14217.8	14423.2	17093.8
45°	17616.4	17558.7	16254.1	14005.2	13965.5	15216.1	16073.9	16401.8	15363.9	14675.5	17201.9
47.5°	17050.5	17126.2	15727.9	13875.4	15129.6	16895.6	18005.6	18614.7	16218.0	14455.7	16935.2
50°	16592.8	16495.5	15558.5	13781.7	15443.2	17688.4	19400.3	19537.3	17003.7	14726.0	16643.3
52.5°	16682.9	16744.2	15828.8	14030.4	15450.4	17735.3	19616.6	19522.9	17028.9	14664.7	16538.8
55°	16873.9	16603.6	15713.5	13482.6	14416.0	16427.0	17410.9	17266.8	15717.1	14012.4	16282.9
57.5°	14560.2	14978.2	14448.4	12037.4	11831.9	12376.1	12358.1	12801.4	11723.8	12059.0	14823.3
60°	11817.5	11889.6	12087.8	10296.6	8188.3	8000.9	7741.4	7460.3	7889.2	10311.1	13482.6
62.5°	10393.9	10307.4	11013.8	9366.8	5780.8	4840.2	4796.9	4969.9	6087.2	9835.3	12646.4
65°	7554.0	7662.1	8173.9	7269.3	4339.2	3694.1	3629.2	4141.0	4926.7	7882.0	9651.5
67.5°	4613.1	4822.2	4869.0	4483.4	2944.5	2339.0	2245.3	2710.2	3557.2	5099.7	5658.3
70°	2130.0	2382.2	2620.1	2447.1	1704.7	962.3	908.2	1138.9	1794.8	2933.7	3002.1
72.5°	645.1	648.7	908.2	947.9	551.4	216.2	191.0	252.3	609.1	969.5	1019.9
75°	46.9	50.5	122.5	140.6	104.5	54.1	57.7	68.5	129.7	216.2	162.2
77.5°	3.6	3.6	3.6	18.0	32.4	36.0	46.9	54.1	68.5	79.3	72.1
80°	3.6	0.0	3.6	14.4	25.2	36.0	43.2	50.5	54.1	61.3	54.1
82.5°	0.0	0.0	0.0	10.8	25.2	36.0	39.6	54.1	61.3	72.1	61.3
85°	0.0	0.0	0.0	10.8	25.2	39.6	36.0	18.0	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9291.1	9291.1	9291.1	9291.1	9291.1	9291.1	9291.1	9291.1	9291.1	9291.1	9291.1
2.5°	9824.5	9684.0	9363.2	9201.0	8819.0	8764.9	8390.1	8328.9	8202.7	8134.2	7968.5
5°	8988.4	8819.0	8296.4	7856.7	7345.0	6988.2	6714.3	6465.6	6321.4	6188.1	6249.3
7.5°	8307.2	7813.5	7233.2	6498.0	5907.0	5524.9	5106.9	4764.5	4562.7	4425.7	4458.2
10°	7593.6	7272.9	6465.6	5640.3	4926.7	4656.4	4328.4	4065.3	3780.6	3535.5	3420.2
12.5°	7370.2	6894.5	5881.7	5042.0	4501.4	4238.3	3863.5	3560.8	3196.8	2897.6	2793.1
15°	7409.8	6952.1	5723.2	4825.8	4187.9	3733.7	3286.9	2912.0	2512.0	2303.0	2194.8
17.5°	8054.9	7262.1	5827.7	4598.7	3751.8	3121.1	2569.7	2093.9	1794.8	1578.6	1531.7
20°	8847.8	7932.4	6051.1	4432.9	3395.0	2483.2	1877.7	1466.8	1218.2	1182.1	1171.3
22.5°	10008.3	9028.0	6530.5	4321.2	2958.9	1935.3	1286.6	1066.8	998.3	991.1	994.7
25°	11630.1	10401.2	7053.0	4227.5	2630.9	1492.1	1052.4	904.6	883.0	872.2	890.2
27.5°	12332.9	11230.1	7330.5	4025.7	2331.8	1344.3	1038.0	897.4	836.1	818.1	828.9
30°	13201.5	11781.5	7766.6	3679.7	1892.1	1106.4	969.5	976.7	947.9	857.8	828.9
32.5°	14354.7	12469.9	7986.5	3434.6	1690.3	915.4	710.0	652.3	728.0	742.4	767.7
35°	15093.6	13169.0	8098.2	3290.5	1585.8	782.1	601.9	547.8	529.8	533.4	547.8
37.5°	16466.7	14113.3	8238.8	3139.1	1506.5	681.2	544.2	493.7	468.5	468.5	482.9
40°	17288.4	14862.9	8429.8	3056.2	1427.2	619.9	493.7	450.5	428.9	428.9	436.1
42.5°	17493.8	15234.1	8364.9	3027.4	1337.1	605.5	450.5	418.1	392.8	389.2	385.6
45°	17861.4	15799.9	8375.7	2994.9	1243.4	551.4	425.3	389.2	353.2	349.6	346.0
47.5°	18265.1	16207.2	8397.3	2868.8	1153.3	461.3	443.3	360.4	317.2	309.9	309.9
50°	17919.1	16531.6	8584.7	2742.6	1038.0	374.8	436.1	338.8	281.1	270.3	273.9
52.5°	17962.4	16913.6	8981.2	2566.1	893.8	299.1	353.2	320.8	255.9	237.9	241.5
55°	17270.4	16509.9	9035.2	2378.6	699.2	230.7	270.3	281.1	216.2	209.0	209.0
57.5°	14866.5	13979.9	7972.1	1928.1	461.3	191.0	194.6	245.1	187.4	180.2	183.8
60°	12722.1	11222.9	6415.1	1272.2	288.3	151.4	140.6	248.7	165.8	162.2	173.0
62.5°	11597.7	9222.6	4865.4	789.3	198.2	115.3	97.3	201.8	144.2	144.2	158.6
65°	8379.3	6195.3	2829.1	414.5	140.6	90.1	72.1	115.3	118.9	122.5	129.7
67.5°	5189.8	3128.3	1192.9	201.8	93.7	61.3	46.9	72.1	79.3	79.3	86.5
70°	2562.4	1247.0	396.4	115.3	72.1	50.5	32.4	39.6	39.6	36.0	39.6
72.5°	792.9	374.8	100.9	72.1	50.5	32.4	18.0	14.4	7.2	0.0	3.6
75°	90.1	72.1	64.9	50.5	32.4	14.4	3.6	0.0	0.0	0.0	0.0
77.5°	54.1	61.3	61.3	50.5	32.4	10.8	0.0	0.0	0.0	0.0	0.0
80°	43.2	46.9	50.5	46.9	28.8	14.4	0.0	0.0	0.0	0.0	0.0
82.5°	54.1	61.3	68.5	61.3	39.6	18.0	7.2	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	10.8	3.6	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°	9291.1	9291.1	9291.1	9291.1	9291.1	9291.1	9291.1	9291.1	9291.1	9291.1	9291.1
2.5°	7900.0	7820.7	7932.4	7766.6	7763.0	7766.6	7719.8	7676.5	7745.0	7928.8	7946.8
5°	6029.5	6198.9	6252.9	6429.5	6332.2	6188.1	6216.9	6119.6	6357.5	6462.0	6379.1
7.5°	4389.7	4378.9	4742.9	4764.5	4811.3	4814.9	4807.7	4616.7	4422.1	4465.4	4595.1
10°	3405.8	3222.0	3398.6	3380.6	3495.9	3463.4	3510.3	3304.9	3373.3	3373.3	3456.2
12.5°	2775.1	2580.5	2548.0	2501.2	2548.0	2566.1	2584.1	2544.4	2659.8	2713.8	2771.5
15°	2119.2	2011.0	1982.2	1892.1	1906.5	1957.0	2000.2	2018.2	1982.2	2065.1	2072.3
17.5°	1538.9	1535.3	1553.3	1549.7	1535.3	1524.5	1520.9	1474.0	1459.6	1466.8	1495.7
20°	1167.7	1196.5	1257.8	1319.1	1351.5	1311.9	1257.8	1178.5	1146.1	1153.3	1156.9
22.5°	998.3	1041.6	1124.4	1192.9	1225.4	1153.3	1056.0	987.5	973.1	969.5	965.9
25°	904.6	955.1	1016.3	1038.0	1034.3	991.1	919.0	890.2	883.0	875.8	843.3
27.5°	854.1	872.2	883.0	908.2	919.0	890.2	872.2	828.9	821.7	821.7	800.1
30°	825.3	814.5	828.9	810.9	825.3	803.7	807.3	807.3	789.3	796.5	796.5
32.5°	767.7	771.3	771.3	735.2	746.0	720.8	746.0	767.7	771.3	774.9	803.7
35°	562.2	627.1	659.5	659.5	670.3	652.3	648.7	623.5	591.1	558.6	544.2
37.5°	493.7	519.0	562.2	587.5	605.5	591.1	558.6	519.0	501.0	486.5	472.1
40°	439.7	461.3	490.1	519.0	555.0	537.0	486.5	468.5	446.9	446.9	432.5
42.5°	396.4	407.3	425.3	468.5	508.2	472.1	436.1	421.7	410.9	407.3	403.6
45°	356.8	360.4	378.4	414.5	461.3	425.3	389.2	371.2	374.8	378.4	374.8
47.5°	320.8	328.0	338.8	382.0	410.9	392.8	353.2	342.4	342.4	342.4	346.0
50°	277.5	295.5	317.2	353.2	374.8	364.0	331.6	317.2	309.9	309.9	313.5
52.5°	248.7	263.1	291.9	335.2	364.0	346.0	313.5	291.9	277.5	273.9	281.1
55°	216.2	241.5	288.3	320.8	360.4	342.4	306.3	281.1	255.9	252.3	252.3
57.5°	194.6	234.3	277.5	317.2	349.6	335.2	306.3	273.9	241.5	237.9	237.9
60°	183.8	227.1	270.3	306.3	349.6	328.0	302.7	266.7	230.7	230.7	227.1
62.5°	173.0	212.6	255.9	291.9	335.2	317.2	291.9	255.9	219.8	219.8	212.6
65°	144.2	183.8	212.6	245.1	291.9	273.9	248.7	223.4	194.6	187.4	191.0
67.5°	100.9	126.1	155.0	187.4	216.2	209.0	198.2	180.2	155.0	151.4	147.8
70°	50.5	68.5	93.7	126.1	151.4	144.2	137.0	122.5	108.1	104.5	104.5
72.5°	7.2	21.6	39.6	57.7	79.3	82.9	79.3	75.7	72.1	68.5	72.1
75°	0.0	0.0	0.0	14.4	32.4	39.6	46.9	54.1	54.1	46.9	57.7
77.5°	0.0	0.0	0.0	0.0	3.6	18.0	36.0	46.9	57.7	50.5	68.5
80°	0.0	0.0	0.0	0.0	3.6	21.6	36.0	50.5	57.7	50.5	72.1
82.5°	0.0	0.0	0.0	0.0	3.6	25.2	36.0	46.9	54.1	50.5	64.9
85°	0.0	0.0	0.0	0.0	10.8	21.6	14.4	7.2	3.6	3.6	10.8
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



REPORT NUMBER: P531901

CATALOG NUMBER: GALN-SA7B-727-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9291.1	9291.1	9291.1	9291.1	9291.1	9291.1	9291.1	9291.1	9291.1	9291.1
2.5°	8047.7	8303.6	8577.5	8682.0	9006.4	9251.5	9417.3	9774.1	9828.1	9831.7
5°	6465.6	6595.3	7063.8	7283.7	7766.6	8141.4	8541.5	9118.1	9503.8	9532.6
7.5°	4595.1	4955.5	5153.7	5726.8	6321.4	6908.9	7503.5	8173.9	8620.8	8631.6
10°	3697.7	3932.0	4285.2	4714.0	5215.0	5813.3	6606.1	7384.6	7838.7	7950.4
12.5°	2976.9	3387.8	3791.4	4234.7	4616.7	5067.2	5921.4	6959.3	7334.1	7557.6
15°	2292.1	2667.0	3142.7	3661.7	4094.1	4696.0	5669.1	6854.8	7485.5	7561.2
17.5°	1690.3	2025.4	2465.1	2955.3	3604.0	4458.2	5712.3	7384.6	7979.3	8105.4
20°	1214.5	1409.2	1755.1	2324.6	3149.9	4180.6	5755.6	7921.6	8826.2	9042.4
22.5°	962.3	1041.6	1268.6	1773.2	2641.7	3888.7	6061.9	8948.7	9990.3	10303.8
25°	836.1	879.4	987.5	1398.4	2321.0	3859.9	6552.1	10181.3	11540.0	11767.1
27.5°	807.3	814.5	908.2	1283.0	2148.0	3668.9	6739.5	11057.1	12505.9	12736.5
30°	850.5	965.9	973.1	1084.8	1827.2	3290.5	6836.8	11904.0	13324.0	13493.4
32.5°	735.2	699.2	724.4	839.7	1607.4	3070.6	7020.6	12642.8	14257.4	14376.4
35°	511.8	537.0	594.7	728.0	1405.6	2840.0	7067.4	13457.3	15144.0	15266.6
37.5°	472.1	486.5	533.4	619.9	1236.2	2710.2	7002.6	14052.0	16063.0	16232.4
40°	439.7	457.7	482.9	562.2	1110.0	2566.1	6912.5	14589.0	16625.3	17043.3
42.5°	414.5	428.9	450.5	537.0	1001.9	2421.9	6786.3	15345.8	17129.8	17493.8
45°	385.6	407.3	432.5	522.6	940.6	2324.6	6692.6	15299.0	17421.8	17616.4
47.5°	356.8	392.8	421.7	486.5	922.6	2277.7	6732.3	15122.4	17183.9	17050.5
50°	328.0	374.8	425.3	403.6	879.4	2184.0	6779.1	15363.9	16618.1	16592.8
52.5°	302.7	356.8	396.4	331.6	782.1	2093.9	7233.2	15681.0	17018.1	16682.9
55°	266.7	320.8	317.2	266.7	634.3	2025.4	7590.0	15688.2	16747.8	16873.9
57.5°	241.5	284.7	248.7	223.4	468.5	1693.9	7009.8	13154.6	14336.7	14560.2
60°	223.4	277.5	187.4	176.6	306.3	1221.8	6119.6	10188.5	11395.9	11817.5
62.5°	205.4	263.1	147.8	144.2	212.6	868.6	5031.2	8527.1	9820.9	10393.9
65°	180.2	187.4	118.9	111.7	151.4	468.5	3063.4	5870.9	7341.4	7554.0
67.5°	147.8	144.2	97.3	90.1	100.9	227.1	1351.5	2940.9	4256.3	4613.1
70°	118.9	118.9	82.9	72.1	72.1	104.5	353.2	1171.3	1924.5	2130.0
72.5°	86.5	90.1	64.9	57.7	54.1	50.5	57.7	234.3	504.6	645.1
75°	75.7	79.3	64.9	50.5	39.6	32.4	25.2	21.6	28.8	46.9
77.5°	82.9	82.9	68.5	46.9	36.0	25.2	14.4	7.2	7.2	3.6
80°	104.5	108.1	90.1	61.3	43.2	28.8	18.0	7.2	3.6	3.6
82.5°	111.7	122.5	100.9	75.7	54.1	32.4	18.0	3.6	0.0	0.0
85°	28.8	46.9	79.3	68.5	54.1	32.4	18.0	3.6	0.0	0.0
87.5°	0.0	3.6	10.8	10.8	14.4	14.4	10.8	3.6	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)