

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: P529615

Luminaire Tested: **GALN-SA4D-735-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529615  
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-SA4D-735-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 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: 15760 lumens  
Efficiency: N/A  
Efficacy: 64.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G1

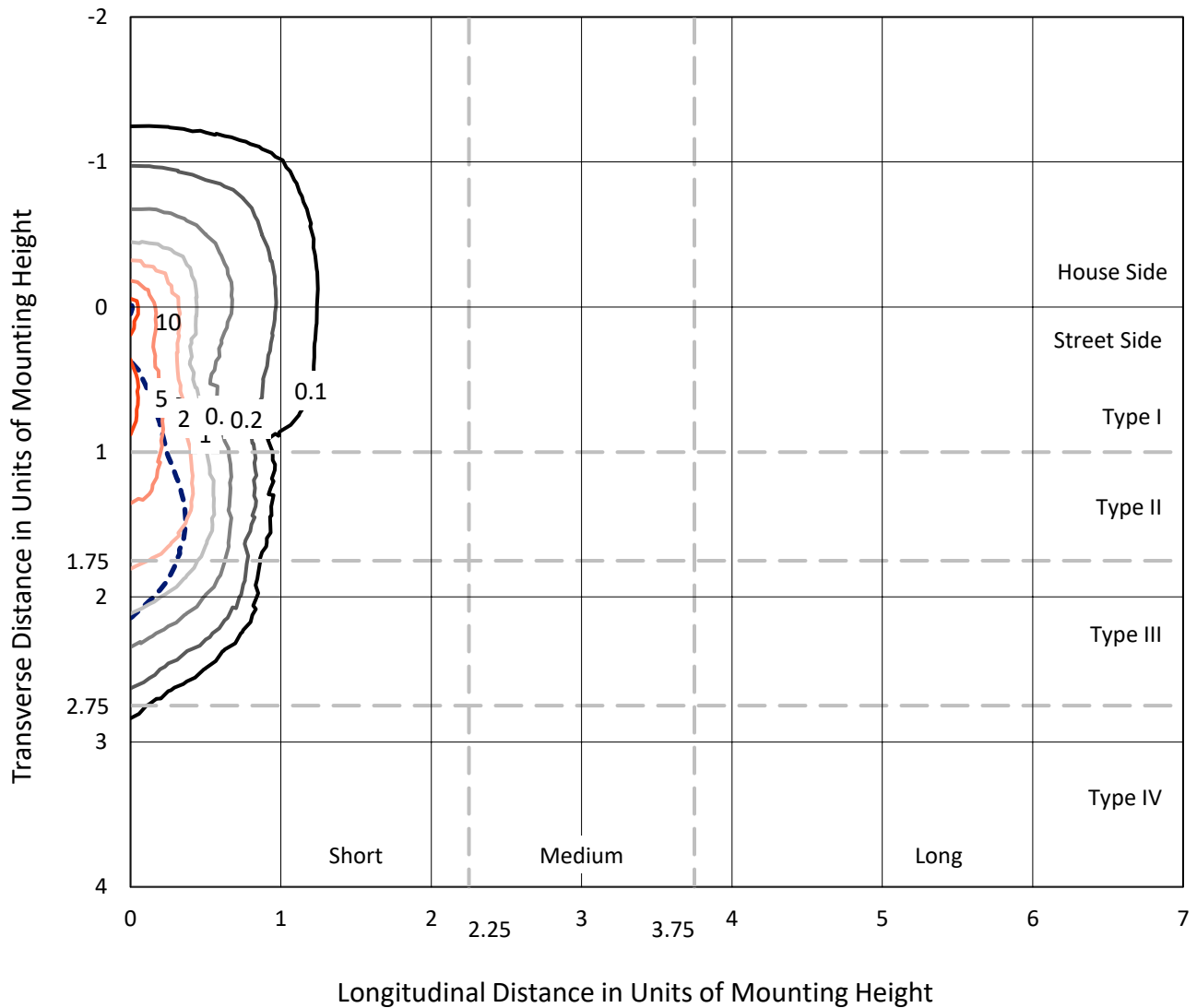
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

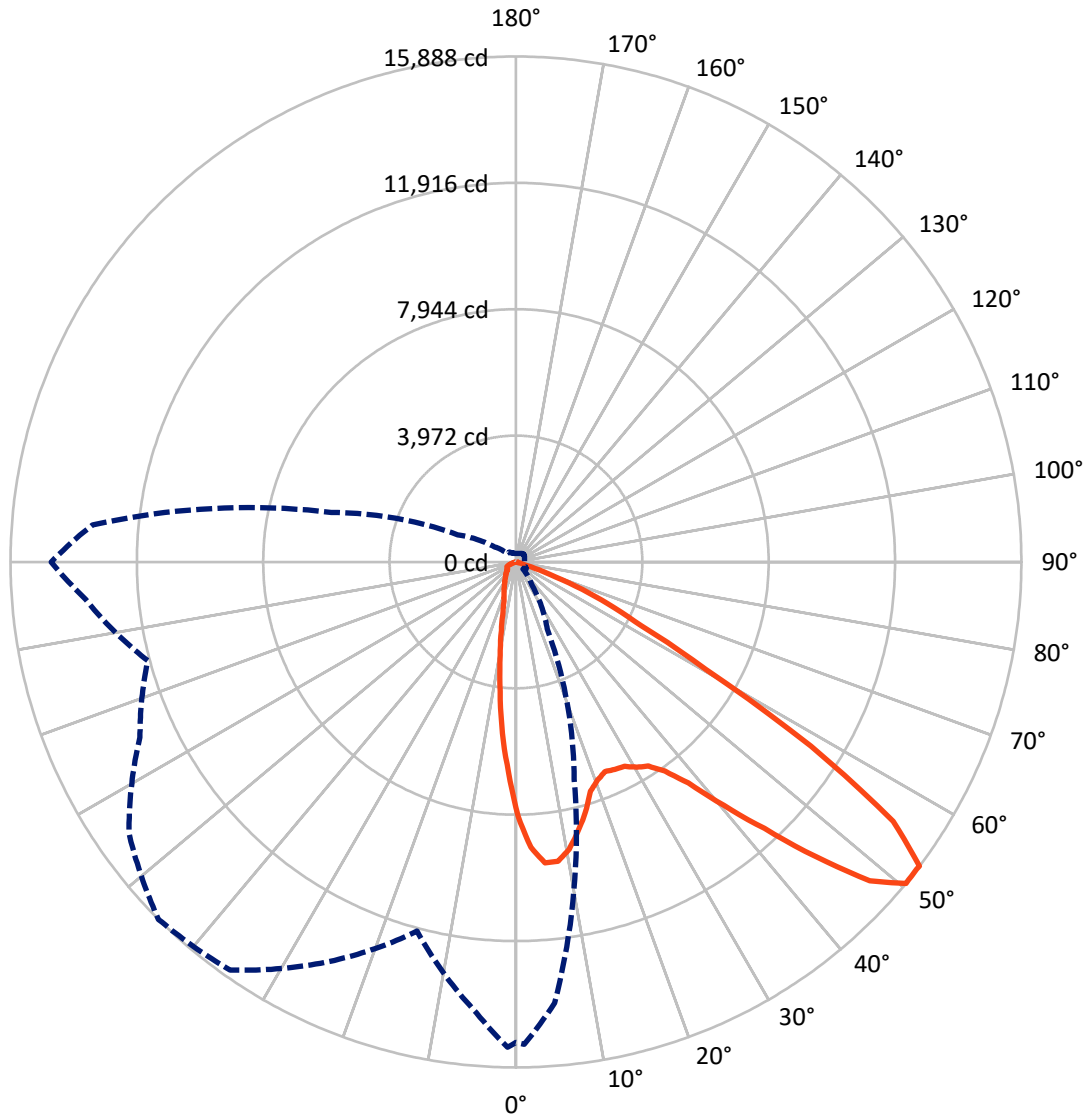
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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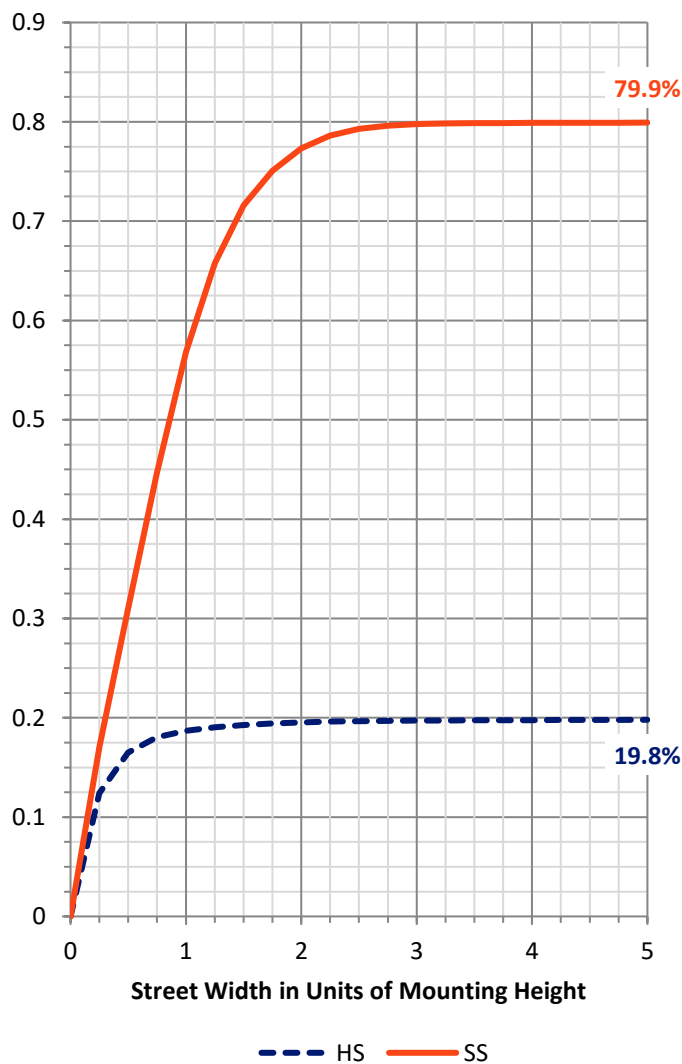
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3156.7	0.0	3156.7
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	12603.3	0.0	12603.3
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	15760.0	0.0	15760.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	582.5	3.7
10°-20°	1157.8	7.3
20°-30°	1739.4	11.0
30°-40°	2610.7	16.6
40°-50°	3669.2	23.3
50°-60°	3957.9	25.1
60°-70°	1837.6	11.7
70°-80°	172.9	1.1
80°-90°	31.9	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°	15760.0	100.0
0°-180°	15760.0	100.0

**Coefficient of Utilization**

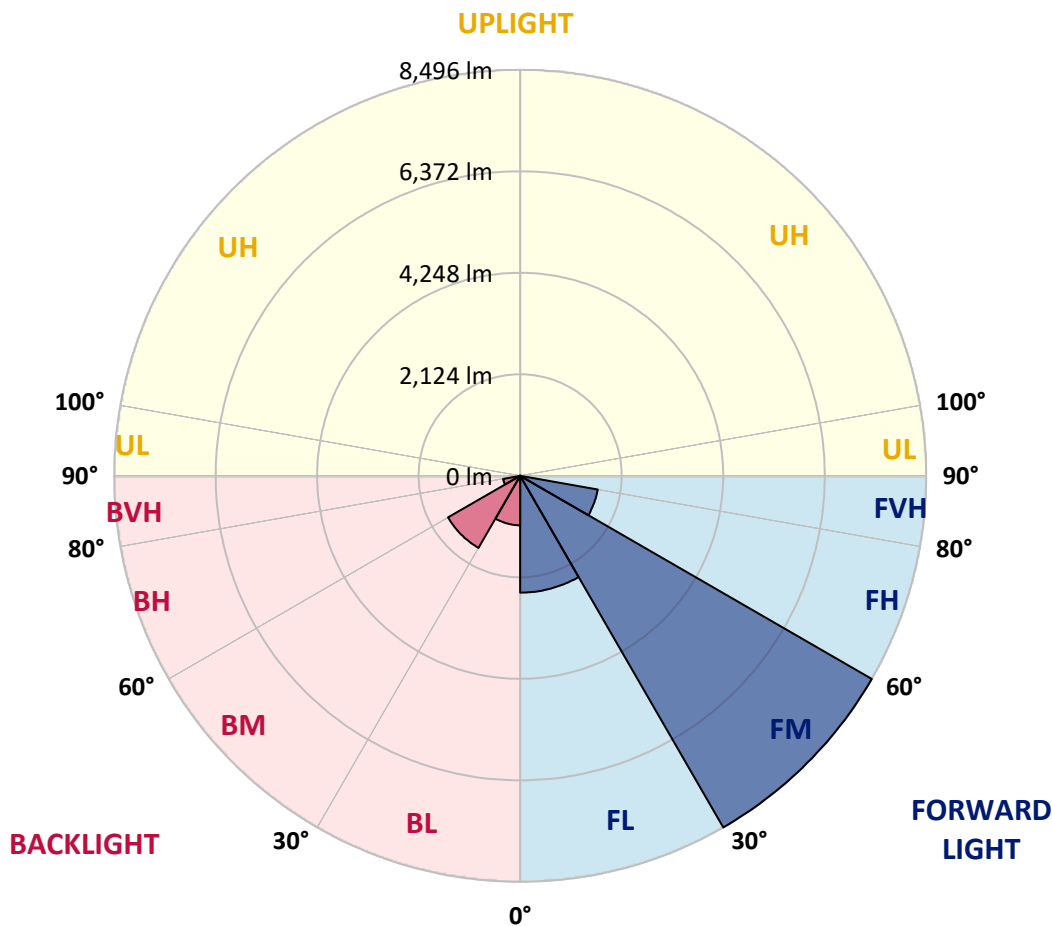


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2445.0	15.5			
FM (30°-60°)	8495.8	53.9			
FH (60°-80°)	1648.1	10.5			G1/1800
FVH (80°-90°)	14.4	0.1			G1/100
BL (0°-30°)	1034.7	6.6	B3/2500		
BM (30°-60°)	1742.0	11.1	B2/2500		
BH (60°-80°)	362.5	2.3	B1/500		G1/500
BVH (80°-90°)	17.5	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-G1**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7992.3	7992.3	7992.3	7992.3	7992.3	7992.3	7992.3	7992.3	7992.3	7992.3	7992.3
2.5°	8308.1	8179.9	8017.3	7882.9	7682.7	7279.4	7169.9	7038.6	6929.2	6782.2	6575.8
5°	7554.5	7513.9	7438.8	6932.3	6566.4	6078.7	5678.4	5509.6	5287.6	5106.2	4974.9
7.5°	6979.2	6816.6	6579.0	6069.3	5484.5	4962.4	4518.3	4258.8	3964.9	3864.8	3686.6
10°	6363.2	6400.7	6050.5	5334.5	4627.8	4205.7	3930.5	3680.3	3414.6	3239.4	2986.2
12.5°	6166.2	6044.3	5775.3	4890.4	4287.0	3893.0	3558.4	3248.8	2967.4	2686.0	2442.1
15°	6294.4	6106.8	5731.6	4796.6	4024.3	3533.4	3114.4	2695.4	2435.8	2076.2	1823.0
17.5°	6754.1	6604.0	6100.5	4896.7	3889.8	3189.4	2567.2	2135.7	1738.5	1413.3	1285.1
20°	7520.1	7307.5	6675.9	5024.9	3689.7	2773.5	2082.5	1550.9	1175.7	1038.1	966.2
22.5°	8270.6	8154.9	7357.5	5271.9	3511.5	2404.6	1563.4	1044.4	878.7	853.6	806.7
25°	9699.6	9352.5	8398.8	5719.1	3373.9	2057.5	1178.8	841.1	744.2	725.4	731.7
27.5°	10550.1	10259.3	9361.9	6016.1	3220.7	1791.7	997.5	772.3	706.7	666.0	650.4
30°	11366.2	11028.5	9840.3	6191.2	2892.4	1510.3	884.9	741.1	725.4	666.0	647.3
32.5°	11994.7	11663.3	10531.3	6453.9	2757.9	1328.9	728.6	578.5	537.8	531.6	587.9
35°	12957.8	12604.5	11122.3	6597.7	2654.7	1235.1	631.6	515.9	469.0	450.3	453.4
37.5°	13855.2	13614.4	11669.5	6654.0	2545.3	1207.0	566.0	462.8	422.1	409.6	406.5
40°	14605.7	14067.8	12188.6	6713.4	2498.4	1153.8	525.3	422.1	394.0	375.2	375.2
42.5°	14949.6	14402.4	12770.2	6679.0	2485.9	1069.4	525.3	387.7	365.8	347.1	344.0
45°	14874.6	14652.6	13029.7	6663.4	2485.9	985.0	478.4	378.4	347.1	322.1	315.8
47.5°	15068.4	14777.6	13354.9	6729.0	2435.8	925.6	403.4	397.1	328.3	297.1	290.8
50°	15102.8	15159.1	13920.9	7069.9	2326.4	850.5	315.8	390.9	315.8	268.9	262.7
52°	15328.0	14977.8	14092.9	7251.2	2210.7	794.2	265.8	334.6	303.3	250.2	243.9
52.5°	15018.4	15246.7	14133.5	7316.9	2223.2	756.7	256.4	328.3	297.1	250.2	234.5
55°	14671.3	14890.2	13967.8	7457.6	2038.7	594.1	200.1	237.6	268.9	218.9	209.5
57.5°	12751.4	12973.4	12138.6	6829.1	1660.4	419.0	165.7	178.2	237.6	203.2	193.9
60°	11334.9	11175.5	10187.4	5697.2	1178.8	234.5	131.3	137.6	259.5	187.6	184.5
62.5°	10359.4	10018.5	8514.5	4399.5	719.2	156.3	103.2	106.3	200.1	175.1	175.1
65°	7664.0	7282.5	5656.5	2661.0	353.3	109.4	78.2	84.4	125.1	150.1	150.1
67.5°	4374.5	4227.5	2732.9	1200.7	147.0	68.8	59.4	65.7	96.9	121.9	115.7
70°	2010.6	1804.2	1050.6	253.3	68.8	46.9	46.9	53.2	78.2	90.7	84.4
72.5°	587.9	556.6	256.4	40.6	28.1	28.1	31.3	40.6	59.4	68.8	62.5
75°	43.8	28.1	18.8	12.5	12.5	18.8	25.0	40.6	59.4	65.7	53.2
77.5°	3.1	6.3	3.1	3.1	9.4	18.8	28.1	50.0	78.2	81.3	59.4
80°	3.1	3.1	0.0	3.1	9.4	18.8	31.3	56.3	87.6	93.8	50.0
82.5°	0.0	0.0	0.0	3.1	12.5	25.0	37.5	59.4	81.3	100.1	53.2
85°	0.0	0.0	0.0	3.1	18.8	34.4	43.8	15.6	9.4	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°	7992.3	7992.3	7992.3	7992.3	7992.3	7992.3	7992.3	7992.3	7992.3	7992.3	7992.3
2.5°	6722.8	6641.5	6610.2	6638.4	6629.0	6619.6	6791.6	6754.1	6747.8	6804.1	6791.6
5°	5046.8	4902.9	5296.9	5137.5	5303.2	5403.2	5422.0	5431.4	5547.1	5425.1	5584.6
7.5°	3595.9	3633.4	3630.3	3736.6	3927.4	4096.2	4196.3	4118.1	4111.8	4096.2	4027.4
10°	2873.6	2807.9	2795.4	2770.4	2829.8	2973.7	3095.6	2998.7	2929.9	3023.7	2995.6
12.5°	2348.3	2257.6	2207.6	2107.5	2110.6	2207.6	2207.6	2207.6	2276.4	2329.5	2370.2
15°	1801.1	1726.0	1726.0	1626.0	1604.1	1607.2	1657.2	1663.5	1772.9	1804.2	1819.8
17.5°	1260.1	1219.5	1266.4	1307.0	1282.0	1288.3	1307.0	1313.3	1328.9	1316.4	1347.7
20°	969.3	963.1	975.6	1047.5	1100.7	1131.9	1110.0	1078.8	1060.0	1016.2	1016.2
22.5°	822.4	834.9	856.8	916.2	985.0	1003.7	978.7	906.8	850.5	844.3	847.4
25°	731.7	744.2	778.6	816.1	853.6	884.9	859.9	806.7	775.5	747.3	747.3
27.5°	675.4	681.7	700.4	728.6	759.8	784.8	775.5	747.3	712.9	700.4	672.3
30°	631.6	641.0	662.9	669.2	697.3	709.8	694.2	687.9	666.0	650.4	641.0
32.5°	609.7	606.6	622.2	628.5	631.6	641.0	622.2	631.6	628.5	603.5	594.1
35°	459.7	484.7	525.3	559.7	569.1	581.6	578.5	566.0	531.6	503.4	469.0
37.5°	412.7	428.4	450.3	478.4	515.9	531.6	525.3	494.0	453.4	434.6	428.4
40°	381.5	390.9	409.6	428.4	465.9	494.0	472.2	444.0	412.7	397.1	387.7
42.5°	353.3	356.5	365.8	384.6	412.7	456.5	419.0	381.5	369.0	359.6	353.3
45°	322.1	322.1	334.6	344.0	375.2	415.9	378.4	344.0	337.7	331.4	328.3
47.5°	297.1	300.2	306.4	318.9	344.0	372.1	347.1	318.9	303.3	300.2	293.9
50°	265.8	268.9	281.4	293.9	325.2	340.8	325.2	293.9	278.3	268.9	268.9
52°	240.8	250.2	262.7	287.7	309.6	334.6	315.8	281.4	262.7	253.3	247.0
52.5°	237.6	243.9	256.4	284.5	309.6	331.4	312.7	278.3	256.4	250.2	243.9
55°	212.6	222.0	243.9	278.3	306.4	331.4	306.4	275.2	243.9	228.3	222.0
57.5°	203.2	209.5	237.6	281.4	303.3	331.4	306.4	275.2	243.9	215.8	209.5
60°	193.9	206.4	237.6	272.0	300.2	334.6	309.6	272.0	237.6	203.2	203.2
62.5°	184.5	193.9	234.5	265.8	287.7	322.1	297.1	265.8	228.3	193.9	190.7
65°	159.5	175.1	206.4	222.0	247.0	278.3	253.3	231.4	200.1	172.0	168.9
67.5°	121.9	128.2	153.2	172.0	187.6	215.8	203.2	175.1	153.2	131.3	131.3
70°	84.4	90.7	109.4	118.8	134.5	150.1	140.7	118.8	103.2	90.7	87.6
72.5°	59.4	62.5	68.8	75.0	81.3	87.6	84.4	68.8	59.4	56.3	53.2
75°	46.9	53.2	56.3	53.2	50.0	46.9	46.9	40.6	34.4	31.3	31.3
77.5°	46.9	50.0	46.9	40.6	34.4	31.3	28.1	25.0	18.8	15.6	18.8
80°	40.6	40.6	40.6	34.4	31.3	28.1	25.0	21.9	18.8	15.6	15.6
82.5°	43.8	43.8	40.6	34.4	34.4	28.1	28.1	25.0	21.9	15.6	15.6
85°	0.0	0.0	0.0	6.3	15.6	28.1	28.1	25.0	21.9	18.8	18.8
87.5°	0.0	0.0	0.0	0.0	3.1	6.3	12.5	15.6	18.8	18.8	18.8
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°	7992.3	7992.3	7992.3	7992.3	7992.3	7992.3	7992.3	7992.3	7992.3	7992.3	7992.3
2.5°	6904.2	7023.0	7248.1	7473.2	7610.8	7773.4	8067.4	8223.7	8426.9	8527.0	8724.0
5°	5562.7	5844.1	5944.2	6200.6	6475.8	6750.9	7188.7	7670.2	8070.5	8345.6	8702.1
7.5°	4058.7	4124.4	4512.1	4684.1	5134.3	5634.6	6231.9	6838.5	7345.0	7795.3	8067.4
10°	3042.5	3283.2	3527.1	3855.4	4218.2	4734.1	5306.3	5975.5	6632.1	7082.4	7426.3
12.5°	2445.2	2636.0	2961.2	3314.5	3761.6	4102.5	4677.8	5340.7	6191.2	6632.1	7085.5
15°	1851.1	2095.0	2464.0	2829.8	3302.0	3661.6	4243.2	5078.1	6172.5	6779.1	7169.9
17.5°	1372.7	1538.4	1869.9	2279.5	2761.0	3267.6	4052.4	5049.9	6382.0	7104.3	7507.6
20°	1050.6	1106.9	1316.4	1682.3	2204.5	2867.3	3742.9	5171.9	7001.1	7895.4	8305.0
22.5°	850.5	875.5	956.8	1210.1	1716.7	2517.1	3595.9	5256.3	7698.4	8842.8	9390.0
25°	741.1	734.8	788.0	897.4	1341.4	2188.8	3408.3	5575.2	8552.0	9956.0	10446.9
27.5°	675.4	675.4	700.4	778.6	1113.2	1976.2	3289.5	5803.5	9411.9	10934.7	11200.5
30°	641.0	647.3	719.2	744.2	925.6	1722.9	3092.5	6034.9	10234.3	11560.1	11925.9
32.5°	594.1	569.1	553.5	616.0	778.6	1494.6	2895.5	6131.8	10900.3	12326.2	12638.9
35°	456.5	444.0	462.8	509.7	669.2	1300.8	2676.6	6241.3	11666.4	13214.2	13276.7
37.5°	412.7	409.6	422.1	462.8	562.8	1131.9	2520.3	6213.1	12251.1	13949.0	13780.2
40°	381.5	381.5	390.9	425.3	503.4	1013.1	2357.7	6188.1	12817.1	14774.5	14280.5
42.5°	356.5	356.5	372.1	394.0	478.4	934.9	2235.7	6153.7	13292.4	15281.1	14574.4
45°	322.1	331.4	356.5	378.4	484.7	881.8	2145.0	6022.4	13455.0	15274.8	14433.7
47.5°	297.1	309.6	334.6	365.8	437.8	866.1	2082.5	5906.7	13398.7	14899.6	13992.8
50°	268.9	284.5	318.9	372.1	372.1	834.9	2016.8	6009.9	13358.0	14608.8	13570.7
52°	250.2	262.7	306.4	362.7	325.2	769.2	1976.2	6210.0	13523.8	14571.3	13383.0
52.5°	247.0	256.4	297.1	356.5	309.6	756.7	1948.0	6256.9	13576.9	14477.5	13511.3
55°	218.9	231.4	272.0	278.3	253.3	622.2	1857.4	6363.2	13314.3	14293.0	13389.3
57.5°	206.4	212.6	240.8	228.3	218.9	469.0	1597.8	6197.5	11825.9	12695.1	12457.5
60°	190.7	197.0	225.1	178.2	184.5	328.3	1200.7	5381.4	9496.3	10578.2	11006.6
62.5°	184.5	181.4	212.6	143.8	156.3	237.6	847.4	4374.5	7316.9	8708.4	9449.4
65°	162.6	159.5	153.2	121.9	134.5	184.5	506.6	2854.8	5156.2	6588.3	6994.8
67.5°	125.1	131.3	112.6	96.9	112.6	143.8	281.4	1278.9	2704.8	3952.4	4280.7
70°	87.6	93.8	90.7	84.4	100.1	118.8	162.6	437.8	1119.4	2076.2	2288.9
72.5°	53.2	65.7	68.8	71.9	87.6	103.2	115.7	140.7	297.1	734.8	913.0
75°	31.3	43.8	53.2	62.5	71.9	87.6	96.9	100.1	103.2	137.6	222.0
77.5°	21.9	31.3	46.9	59.4	71.9	87.6	103.2	109.4	103.2	96.9	103.2
80°	18.8	31.3	43.8	56.3	75.0	90.7	103.2	103.2	100.1	87.6	93.8
82.5°	18.8	31.3	46.9	59.4	71.9	87.6	100.1	103.2	93.8	87.6	90.7
85°	21.9	34.4	50.0	62.5	78.2	71.9	65.7	53.2	50.0	40.6	43.8
87.5°	21.9	31.3	31.3	34.4	37.5	37.5	37.5	34.4	28.1	25.0	25.0
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: P529615

CATALOG NUMBER: GALN-SA4D-735-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7992.3	7992.3	7992.3	7992.3	7992.3	7992.3	7992.3	7992.3	7992.3	7992.3
2.5°	8733.4	8983.5	8974.1	8980.4	8942.9	8689.6	8567.7	8258.1	8345.6	8308.1
5°	9068.0	9315.0	9527.6	9502.6	9214.9	8871.0	8361.3	7879.7	7748.4	7554.5
7.5°	8733.4	9327.5	9524.5	9496.3	9071.1	8630.2	7817.2	7335.7	7107.4	6979.2
10°	8201.8	8889.7	9133.6	9183.6	8896.0	8226.8	7479.5	6707.2	6585.2	6363.2
12.5°	7898.5	8398.8	8548.9	8683.3	8583.3	8083.0	7223.1	6482.0	6313.2	6166.2
15°	7651.5	7948.5	8011.1	8164.3	8223.7	7954.8	7357.5	6725.9	6310.0	6294.4
17.5°	7879.7	7757.8	7529.5	7576.4	7764.0	7957.9	7704.6	7207.5	6804.1	6754.1
20°	8258.1	7720.3	7204.3	7320.0	7476.4	8070.5	8229.9	7879.7	7648.3	7520.1
22.5°	8692.7	7785.9	7101.1	7157.4	7454.5	8323.8	9080.5	8886.6	8455.1	8270.6
25°	9496.3	7967.3	7182.4	7220.0	7626.5	8677.1	9849.7	9993.5	9737.1	9699.6
27.5°	10281.2	8436.3	7360.7	7276.3	7714.0	9021.1	10315.6	11087.9	10637.6	10550.1
30°	10681.4	8817.8	7626.5	7482.6	8076.7	9230.6	10597.0	11800.8	11406.9	11366.2
32.5°	11294.3	9164.9	7832.8	7648.3	8280.0	9490.1	11122.3	12579.4	12198.0	11994.7
35°	11550.7	9543.2	8286.2	8070.5	8861.6	9852.8	11391.2	13273.6	13154.8	12957.8
37.5°	12044.7	9949.7	8820.9	8808.4	9565.1	10325.0	11875.9	14217.9	14196.0	13855.2
40°	12085.4	10393.8	9665.2	10059.2	10653.3	11147.3	12301.1	14480.6	14837.0	14605.7
42.5°	12147.9	11172.3	11125.4	11450.6	11960.3	11854.0	12316.8	14543.1	15087.2	14949.6
45°	12176.1	11950.9	12610.7	13211.1	13423.7	12779.6	12169.8	14424.3	15218.5	14874.6
47.5°	11950.9	12620.1	13811.4	14971.5	15034.0	13348.7	12107.3	14302.4	15296.7	15068.4
50°	11982.2	13039.1	14849.6	15887.7	15659.4	13852.1	12010.3	14227.3	15256.1	15102.8
52°	11907.2	13048.5	14996.5	15868.9	15709.4	13573.8	11844.6	13939.6	15218.5	15328.0
52.5°	11991.6	12992.2	14843.3	15881.4	15675.1	13711.4	11822.7	14099.1	15240.4	15018.4
55°	11700.8	12323.0	13945.9	14386.8	14355.5	12445.0	11150.5	13570.7	14668.2	14671.3
57.5°	10575.1	10681.4	10937.8	10928.4	10784.6	9784.0	9537.0	12479.4	13076.6	12751.4
60°	9318.1	7820.3	7129.3	6847.9	6688.4	6525.8	8436.3	11416.2	11472.5	11334.9
62.5°	8051.7	5422.0	4502.7	4424.5	4462.1	5056.2	8154.9	10994.1	10656.4	10359.4
65°	6497.7	3952.4	3270.7	3167.5	3533.4	4174.4	6600.8	8430.1	7911.0	7664.0
67.5°	4080.6	2883.0	2210.7	2016.8	2457.7	2873.6	4337.0	5296.9	4715.3	4374.5
70°	2420.2	1610.3	1000.6	897.4	1010.0	1532.2	2429.6	2642.2	2185.7	2010.6
72.5°	953.7	591.0	278.3	237.6	247.0	537.8	894.3	872.4	659.8	587.9
75°	256.4	178.2	96.9	78.2	65.7	100.1	143.8	93.8	34.4	43.8
77.5°	118.8	106.3	84.4	65.7	50.0	37.5	18.8	6.3	6.3	3.1
80°	103.2	90.7	78.2	65.7	50.0	31.3	15.6	3.1	3.1	3.1
82.5°	96.9	84.4	71.9	59.4	46.9	31.3	15.6	3.1	0.0	0.0
85°	40.6	53.2	59.4	56.3	50.0	31.3	15.6	3.1	0.0	0.0
87.5°	21.9	18.8	15.6	12.5	9.4	6.3	6.3	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)