

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: P458960

Luminaire Tested: **GALN-SA4D-735-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458960
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20473 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

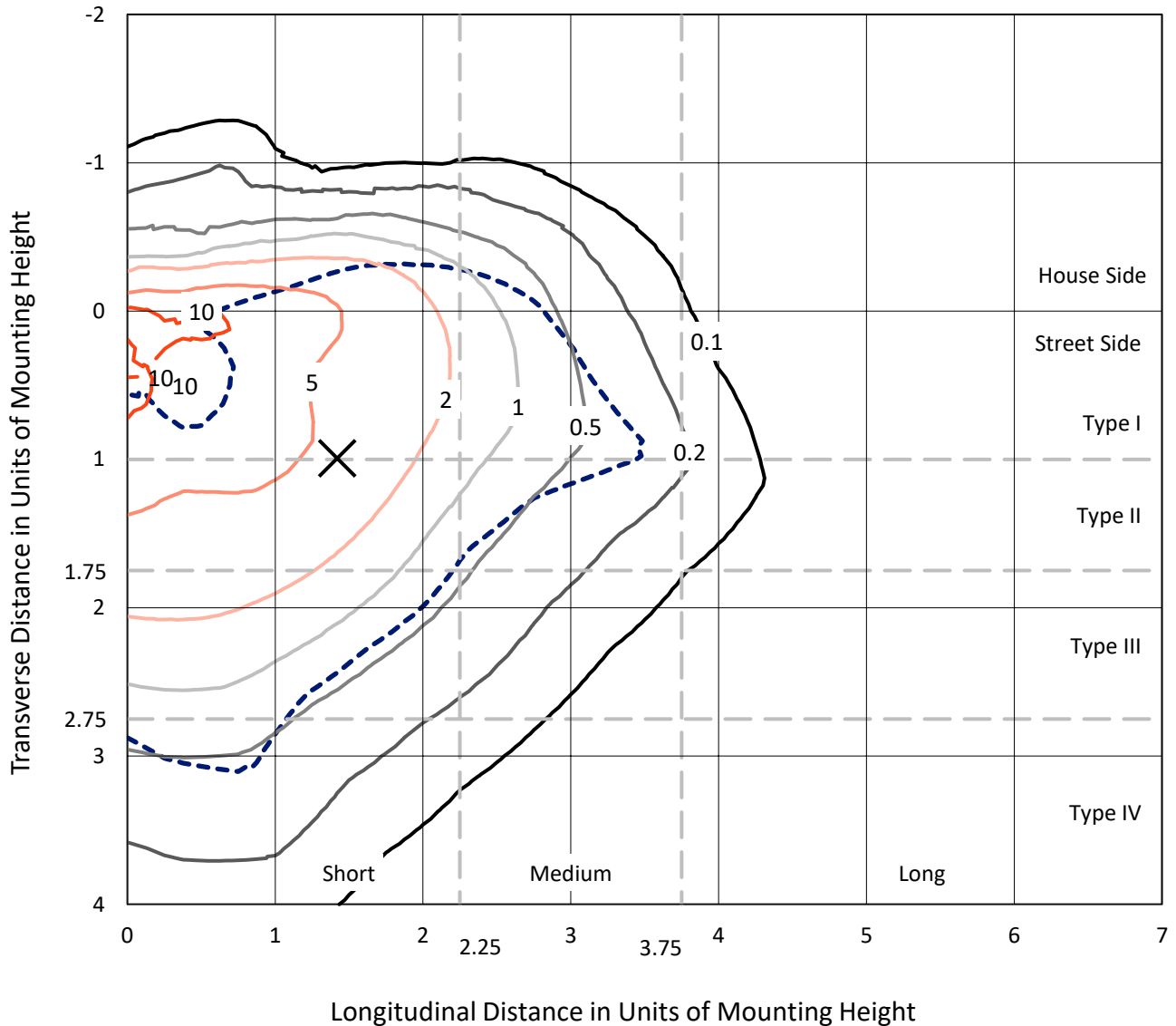
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

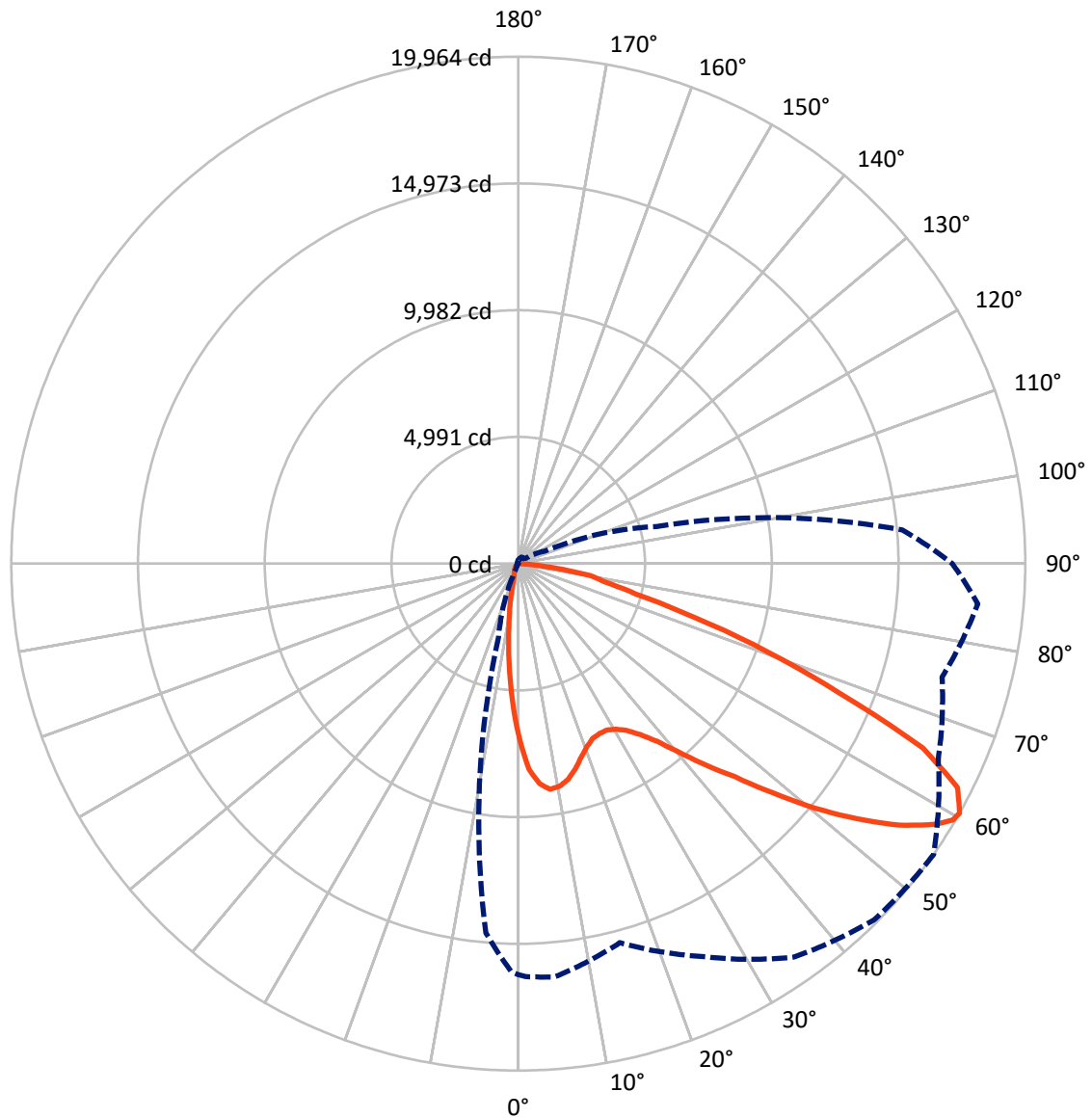
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3038.4	0.0	3038.4
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	17434.6	0.0	17434.6
	% Fixture	85.2	0.0	85.2
Total	Lumens	20473.0	0.0	20473.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.3	2.5
10°-20°	1010.9	4.9
20°-30°	1496.3	7.3
30°-40°	2230.3	10.9
40°-50°	3266.4	16.0
50°-60°	4715.6	23.0
60°-70°	4960.6	24.2
70°-80°	2040.6	10.0
80°-90°	239.0	1.2
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°	20473.0	100.0
0°-180°	20473.0	100.0

Coefficient of Utilization



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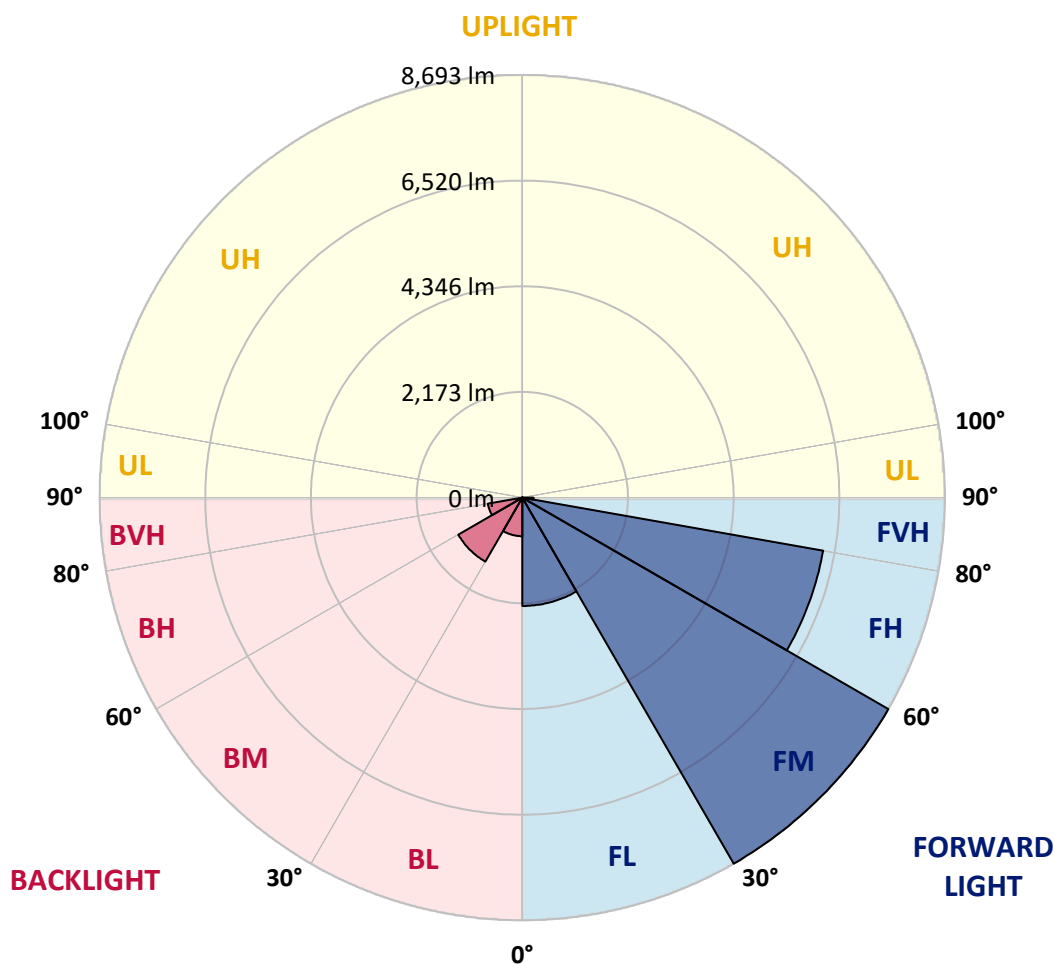
CATALOG NUMBER: GALN-SA4D-735-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2227.7	10.9			
FM (30°-60°)	8692.9	42.5			
FH (60°-80°)	6282.0	30.7			G3/7500
FVH (80°-90°)	232.0	1.1			G3/500
BL (0°-30°)	792.7	3.9	B2/1000		
BM (30°-60°)	1519.5	7.4	B2/2500		
BH (60°-80°)	719.2	3.5	B2/1000		G2/1000
BVH (80°-90°)	7.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1
2.5°	7573.5	7560.9	7672.7	7855.5	8039.9	8136.0	8117.1	8109.3	7956.4	7844.5	7609.7
5°	7557.7	7622.3	7822.4	8317.3	8692.3	8873.5	8927.1	8701.8	8403.9	7972.2	7439.5
7.5°	7105.4	7185.8	7512.0	8285.7	8952.3	9346.3	9332.1	8971.2	8356.7	7688.5	6928.9
10°	6544.4	6639.0	7021.9	7961.1	8826.3	9346.3	9374.6	8917.7	8153.4	7296.1	6497.2
12.5°	6148.9	6260.8	6684.7	7658.6	8501.6	9013.8	9046.9	8715.9	8000.5	7144.8	6262.4
15°	6015.0	6120.5	6550.7	7505.7	8156.5	8432.3	8424.4	8389.7	7940.6	7181.1	6275.0
17.5°	6245.0	6331.7	6817.1	7575.0	7833.5	7805.1	7846.1	8013.1	7953.2	7485.2	6672.1
20°	6839.1	6927.4	7449.0	7787.8	7586.1	7406.4	7425.3	7704.3	8069.9	8057.2	7293.0
22.5°	7657.0	7806.7	8279.4	8200.6	7553.0	7159.0	7119.6	7482.1	8268.4	8715.9	8131.3
25°	8692.3	8843.6	9212.3	8859.3	7715.3	7100.7	7064.5	7414.3	8509.5	9358.9	9075.2
27.5°	9562.2	9677.2	10044.4	9500.7	7954.8	7125.9	7066.0	7423.8	8704.9	9905.7	9871.0
30°	10258.7	10343.8	10559.7	9800.1	8161.3	7236.2	7166.9	7562.4	8791.6	10172.0	10515.6
32.5°	10819.7	10963.1	11030.8	10120.0	8457.5	7444.2	7326.1	7828.8	9002.7	10501.4	11191.6
35°	11461.1	11626.5	11539.8	10425.7	8848.3	7768.9	7623.9	8260.5	9322.6	10805.5	11976.4
37.5°	12274.2	12464.9	12126.1	10747.2	9261.2	8257.4	8189.6	8867.2	9808.0	11240.4	12817.8
40°	13115.7	13226.0	12694.9	11138.0	9768.6	8968.1	9032.7	9768.6	10443.1	11762.0	13712.9
42.5°	13772.8	13876.8	13279.6	11465.8	10287.1	9811.2	10080.6	10855.9	11171.1	12296.2	14381.1
45°	14275.5	14363.7	13684.6	11823.5	10986.7	11032.4	11541.4	11976.4	11900.7	12622.4	14896.4
47.5°	14666.3	14741.9	13996.6	12208.0	12034.7	12526.3	13304.8	13489.2	12657.1	12975.4	15362.8
50°	14827.0	14849.1	14094.3	12698.1	13224.4	14429.9	15241.5	15129.6	13523.8	13367.8	15859.2
52.5°	15036.6	15031.9	14373.2	13164.5	14343.3	16131.8	16941.8	16688.1	14504.0	13955.6	16417.1
55°	15586.6	15592.9	14970.4	13826.4	15296.6	17506.0	18372.7	18188.3	15537.7	14948.4	17067.9
57.5°	16254.7	16278.4	15819.8	14600.1	16207.5	18501.9	19441.1	19370.2	16935.5	16053.0	17682.5
59°	16341.4	16388.7	16221.7	15145.4	16748.0	18807.6	19806.7	19876.0	17684.0	16781.1	18015.0
60°	16183.8	16262.6	16338.3	15454.2	17064.7	18917.9	19828.7	19964.3	18246.6	17275.9	18166.2
62.5°	15496.8	15621.3	16001.0	16404.4	17460.3	18574.4	19124.3	19408.0	18943.1	18576.0	18180.4
65°	14597.0	14661.6	15210.0	16573.1	16692.8	16970.2	17140.4	17504.4	18106.4	19077.1	17529.6
67.5°	13122.0	13312.7	13984.0	15594.5	14428.4	14100.6	14058.0	13695.6	15258.8	17882.6	15925.4
70°	10840.2	10925.3	11752.6	12784.8	10889.0	10384.8	10586.5	10450.9	11828.2	15394.3	12817.8
72.5°	8197.5	8389.7	9198.2	10190.9	7409.6	6755.6	7311.9	7261.5	8884.6	12371.9	8805.8
75°	5832.2	5956.7	6987.3	7975.3	5189.2	4396.6	4596.7	4784.2	6202.5	9768.6	5203.4
77.5°	4007.4	4114.5	4888.2	5274.3	3785.2	3626.0	3317.1	3498.4	4064.1	5795.9	2831.8
80°	2417.3	2412.6	2921.6	3016.1	2636.4	3061.8	2568.6	2883.8	2456.7	2480.4	1096.8
82.5°	1569.5	1553.8	1787.0	1947.7	1467.1	1542.7	1035.3	1492.3	1601.0	691.8	346.7
85°	702.8	732.8	858.8	1133.0	642.9	342.0	211.2	458.6	682.3	348.3	0.0
87.5°	72.5	56.7	151.3	275.8	88.2	9.5	31.5	15.8	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°	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1
2.5°	7501.0	7409.6	7137.0	6881.7	6662.6	6394.7	6221.4	5948.8	5783.3	5732.9	5740.8
5°	7200.0	6936.8	6418.4	6003.9	5542.2	5279.0	4878.8	4494.3	4286.3	4209.1	4174.4
7.5°	6569.7	6287.6	5662.0	5011.2	4516.3	4054.6	3756.8	3418.0	3186.3	2995.7	2962.6
10°	6101.6	5731.3	4956.0	4256.3	3865.5	3518.8	3221.0	2882.2	2609.6	2392.1	2332.2
12.5°	5821.1	5406.7	4541.6	3955.3	3585.0	3228.9	2841.2	2448.8	2169.9	1935.1	1826.4
15°	5770.7	5290.1	4424.9	3739.5	3282.5	2852.3	2337.0	1913.1	1626.3	1404.1	1336.3
17.5°	6074.8	5499.7	4407.6	3514.1	2886.9	2277.1	1741.3	1389.9	1066.8	942.3	893.5
20°	6616.9	5870.0	4406.0	3252.5	2480.4	1753.9	1222.8	906.1	775.3	715.4	687.1
22.5°	7356.0	6374.3	4489.6	3027.2	2058.0	1293.8	873.0	721.7	646.1	597.2	586.2
25°	8259.0	7121.2	4694.4	2874.3	1735.0	1014.8	720.2	617.7	554.7	532.6	523.2
27.5°	9061.1	7836.6	4919.8	2716.7	1503.3	898.2	668.2	565.7	515.3	498.0	483.8
30°	9752.8	8485.9	5028.5	2508.7	1317.4	822.6	677.6	605.1	538.9	486.9	463.3
32.5°	10329.6	8983.8	5099.4	2319.6	1159.8	672.9	535.8	468.0	438.1	419.2	403.4
35°	11051.3	9522.8	5056.9	2212.5	1079.4	613.0	488.5	403.4	353.0	315.2	299.4
37.5°	11807.7	10061.7	4982.8	2124.2	1043.2	568.9	464.9	382.9	327.8	288.4	267.9
40°	12590.9	10561.3	4896.1	2042.3	1010.1	540.5	450.7	365.6	310.4	267.9	245.8
42.5°	13307.9	11048.2	4861.5	1988.7	956.5	545.2	439.7	357.7	293.1	249.0	230.1
45°	13887.8	11509.9	4908.7	1960.3	898.2	537.4	442.8	348.3	278.9	236.4	217.5
47.5°	14507.1	12162.3	5061.6	1932.0	841.5	499.5	466.4	346.7	272.6	228.5	208.0
50°	15227.3	12997.5	5411.4	1862.6	772.2	458.6	496.4	345.1	264.7	219.0	198.6
52.5°	16187.0	13946.1	5772.3	1741.3	671.3	419.2	474.3	340.4	249.0	208.0	187.5
55°	17049.0	14945.2	6078.0	1597.9	543.7	362.4	427.1	319.9	222.2	189.1	170.2
57.5°	17405.1	15509.4	6068.5	1399.3	434.9	318.3	351.4	293.1	193.8	167.0	151.3
59°	17274.3	15438.5	5865.3	1252.8	397.1	294.7	291.5	290.0	181.2	151.3	138.7
60°	17089.9	15180.0	5646.2	1180.3	373.5	278.9	267.9	286.8	170.2	141.8	129.2
62.5°	16384.0	14108.5	4919.8	1057.4	342.0	236.4	214.3	242.7	151.3	122.9	111.9
65°	15361.2	12461.7	4164.9	1022.7	332.5	195.4	178.1	173.3	129.2	104.0	94.6
67.5°	13366.2	10545.5	3373.9	999.1	335.7	163.9	156.0	130.8	107.2	86.7	80.4
70°	10701.5	8222.7	2762.4	972.3	338.8	133.9	130.8	104.0	86.7	72.5	66.2
72.5°	6501.9	4874.1	2174.7	844.6	329.3	107.2	116.6	78.8	63.0	52.0	48.9
75°	4020.0	3336.0	1348.9	657.1	217.5	78.8	81.9	48.9	42.5	33.1	33.1
77.5°	2329.1	2106.9	482.2	236.4	96.1	47.3	36.2	25.2	23.6	14.2	14.2
80°	966.0	773.7	167.0	80.4	52.0	22.1	7.9	1.6	0.0	0.0	0.0
82.5°	282.1	250.6	45.7	36.2	15.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1
2.5°	5606.8	5554.8	5531.2	5611.6	5537.5	5632.0	5559.5	5591.1	5684.0	5725.0	5830.6
5°	4196.5	4142.9	4117.7	4239.0	4232.7	4292.6	4286.3	4341.4	4388.7	4283.1	4391.9
7.5°	2923.2	2886.9	2946.8	3041.4	3142.2	3109.1	3109.1	3035.1	3060.3	3044.5	3039.8
10°	2223.5	2099.0	2067.5	2064.3	2102.2	2110.0	2067.5	1965.1	2002.9	2013.9	2080.1
12.5°	1749.2	1653.1	1506.5	1440.3	1423.0	1437.2	1296.9	1207.1	1249.6	1224.4	1289.0
15°	1254.4	1175.6	1088.9	1014.8	994.4	966.0	813.1	706.0	693.4	698.1	709.1
17.5°	895.1	841.5	841.5	762.7	720.2	635.1	557.8	510.6	505.8	510.6	518.4
20°	660.3	631.9	628.8	608.3	561.0	504.3	450.7	441.2	438.1	446.0	449.1
22.5°	568.9	538.9	513.7	512.1	468.0	420.7	395.5	382.9	384.5	387.7	395.5
25°	509.0	477.5	450.7	434.9	403.4	370.3	346.7	340.4	340.4	345.1	346.7
27.5°	466.4	427.1	403.4	381.4	353.0	324.6	304.1	299.4	296.3	299.4	307.3
30°	436.5	397.1	367.2	334.1	312.0	285.2	267.9	261.6	260.0	261.6	267.9
32.5°	373.5	349.8	326.2	296.3	269.5	252.1	233.2	222.2	222.2	225.3	231.6
35°	282.1	269.5	267.9	260.0	238.0	219.0	197.0	185.9	185.9	192.3	195.4
37.5°	249.0	225.3	222.2	219.0	209.6	184.4	163.9	154.4	152.9	157.6	163.9
40°	226.9	200.1	185.9	182.8	184.4	156.0	133.9	124.5	124.5	126.1	132.4
42.5°	209.6	178.1	152.9	149.7	156.0	130.8	108.7	99.3	99.3	99.3	107.2
45°	195.4	159.2	129.2	113.5	122.9	107.2	88.2	78.8	75.6	78.8	81.9
47.5°	185.9	145.0	113.5	91.4	91.4	85.1	70.9	59.9	56.7	58.3	63.0
50°	178.1	132.4	96.1	74.1	66.2	67.8	53.6	45.7	42.5	42.5	47.3
52.5°	165.5	119.8	83.5	63.0	50.4	45.7	39.4	33.1	31.5	33.1	36.2
55°	149.7	108.7	72.5	52.0	39.4	31.5	28.4	23.6	22.1	23.6	28.4
57.5°	132.4	91.4	58.3	41.0	26.8	20.5	18.9	15.8	12.6	14.2	17.3
59°	121.3	81.9	50.4	33.1	20.5	14.2	14.2	11.0	7.9	9.5	14.2
60°	116.6	75.6	42.5	28.4	17.3	11.0	11.0	7.9	4.7	6.3	11.0
62.5°	99.3	63.0	33.1	17.3	7.9	1.6	4.7	1.6	0.0	1.6	4.7
65°	83.5	50.4	22.1	7.9	0.0	0.0	0.0	0.0	0.0	0.0	1.6
67.5°	69.3	37.8	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	55.2	25.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	37.8	14.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	23.6	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P458960

CATALOG NUMBER: GALN-SA4D-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1
2.5°	5836.9	6062.2	6200.9	6462.5	6730.4	6936.8	7195.3	7426.9	7523.0	7573.5
5°	4502.2	4815.8	5082.1	5480.8	5851.1	6301.8	6758.8	7297.7	7504.1	7557.7
7.5°	3159.6	3479.4	3758.4	4220.1	4748.0	5351.5	6035.5	6719.4	7020.3	7105.4
10°	2281.8	2623.8	2964.1	3425.9	3919.1	4573.1	5285.4	6131.6	6478.3	6544.4
12.5°	1440.3	1807.5	2360.6	2931.1	3452.7	3979.0	4724.4	5644.6	6027.6	6148.9
15°	835.2	1109.4	1527.0	2270.8	2934.2	3630.7	4443.9	5461.8	5890.5	6015.0
17.5°	559.4	654.0	940.8	1509.7	2385.8	3309.3	4372.9	5611.6	6085.9	6245.0
20°	471.2	513.7	614.6	920.3	1837.4	3022.5	4391.9	6018.1	6640.6	6839.1
22.5°	414.4	453.8	518.4	661.9	1282.7	2666.3	4481.7	6599.6	7403.3	7657.0
25°	365.6	405.0	461.7	548.4	862.0	2255.0	4678.7	7450.6	8413.4	8692.3
27.5°	324.6	360.9	409.7	483.8	663.4	1796.5	4853.6	8279.4	9335.3	9562.2
30°	286.8	316.7	364.0	420.7	551.5	1385.2	4941.8	9004.3	10006.6	10258.7
32.5°	249.0	277.3	323.0	368.7	453.8	1055.8	4880.4	9537.0	10659.0	10819.7
35°	212.7	242.7	280.5	323.0	392.4	852.5	4573.1	10135.8	11335.0	11461.1
37.5°	182.8	208.0	247.4	280.5	354.6	682.3	4201.2	10674.7	12093.0	12274.2
40°	154.4	179.6	219.0	249.0	326.2	537.4	3865.5	11273.5	12891.9	13115.7
42.5°	126.1	156.0	190.7	239.5	280.5	409.7	3459.0	11758.9	13492.3	13772.8
45°	100.9	133.9	171.8	238.0	244.3	312.0	3066.6	12137.1	14023.4	14275.5
47.5°	80.4	113.5	165.5	222.2	200.1	247.4	2842.8	12532.6	14464.6	14666.3
50°	64.6	94.6	173.3	195.4	167.0	209.6	2836.5	12973.9	14693.1	14827.0
52.5°	52.0	77.2	146.6	149.7	141.8	184.4	3006.7	13470.2	14926.3	15036.6
55°	44.1	64.6	96.1	110.3	127.6	167.0	3134.3	14234.5	15482.6	15586.6
57.5°	34.7	55.2	74.1	88.2	113.5	152.9	3151.7	14823.9	16187.0	16254.7
59°	29.9	47.3	66.2	78.8	104.0	143.4	3080.8	14860.1	16232.7	16341.4
60°	25.2	42.5	58.3	74.1	96.1	135.5	3003.5	14597.0	16062.5	16183.8
62.5°	18.9	33.1	42.5	59.9	78.8	116.6	2637.9	13678.3	15411.7	15496.8
65°	12.6	23.6	31.5	44.1	61.5	100.9	2149.4	12486.9	14406.3	14597.0
67.5°	7.9	17.3	25.2	33.1	50.4	85.1	1531.7	10707.8	12999.1	13122.0
70°	4.7	11.0	18.9	26.8	39.4	67.8	909.3	8463.8	10815.0	10840.2
72.5°	3.2	7.9	12.6	18.9	31.5	61.5	441.2	5517.0	7896.5	8197.5
75°	1.6	4.7	7.9	14.2	25.2	50.4	211.2	3685.9	5745.5	5832.2
77.5°	0.0	1.6	4.7	9.5	18.9	39.4	122.9	2420.5	3917.5	4007.4
80°	0.0	0.0	3.2	7.9	14.2	25.2	74.1	1427.7	2373.2	2417.3
82.5°	0.0	0.0	1.6	6.3	9.5	18.9	37.8	627.2	1553.8	1569.5
85°	0.0	0.0	1.6	6.3	7.9	12.6	14.2	85.1	690.2	702.8
87.5°	0.0	0.0	1.6	7.9	7.9	7.9	7.9	4.7	58.3	72.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)