

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: P453452

Luminaire Tested: **GALN-SA4C-727-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16704 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

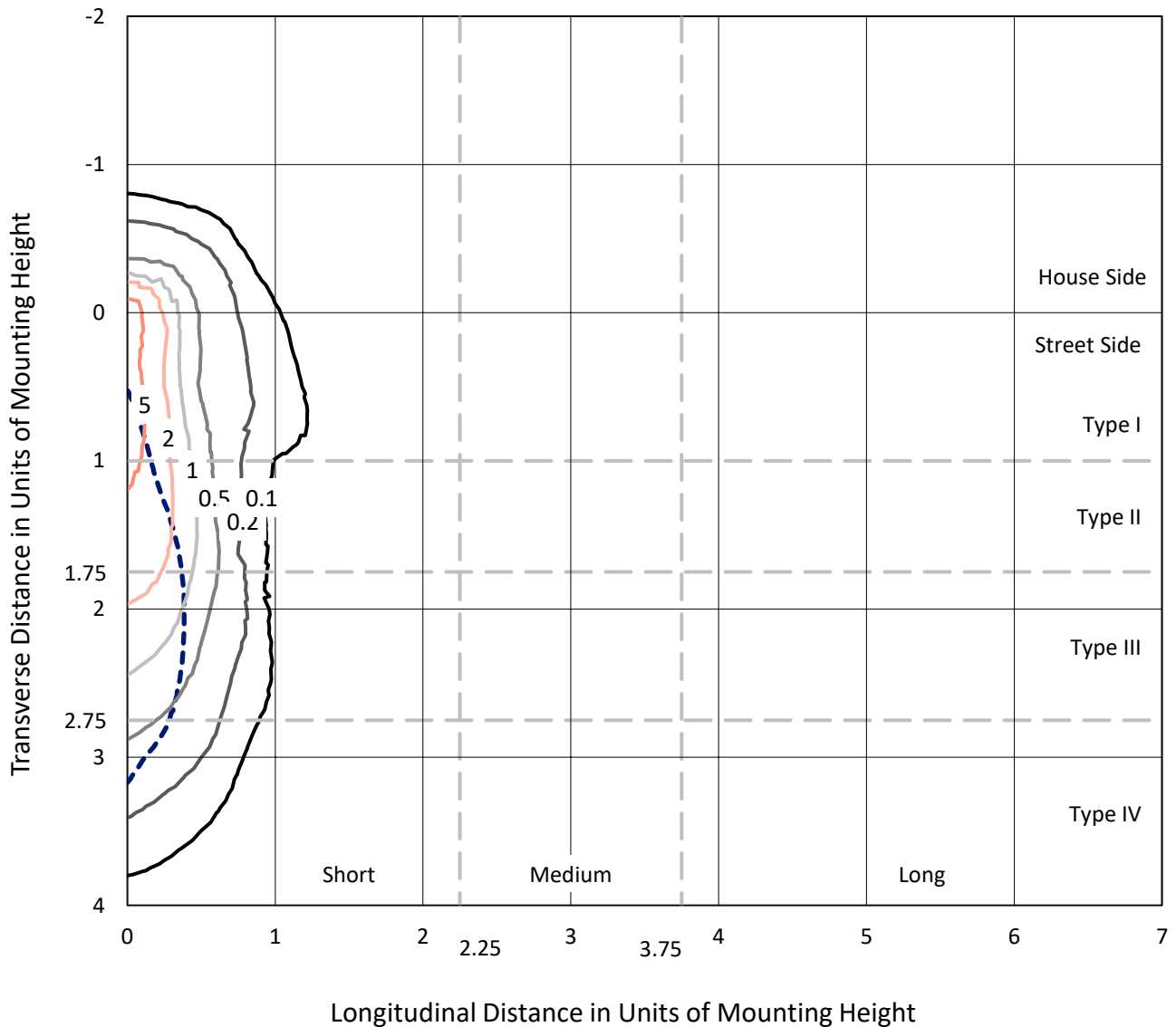
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

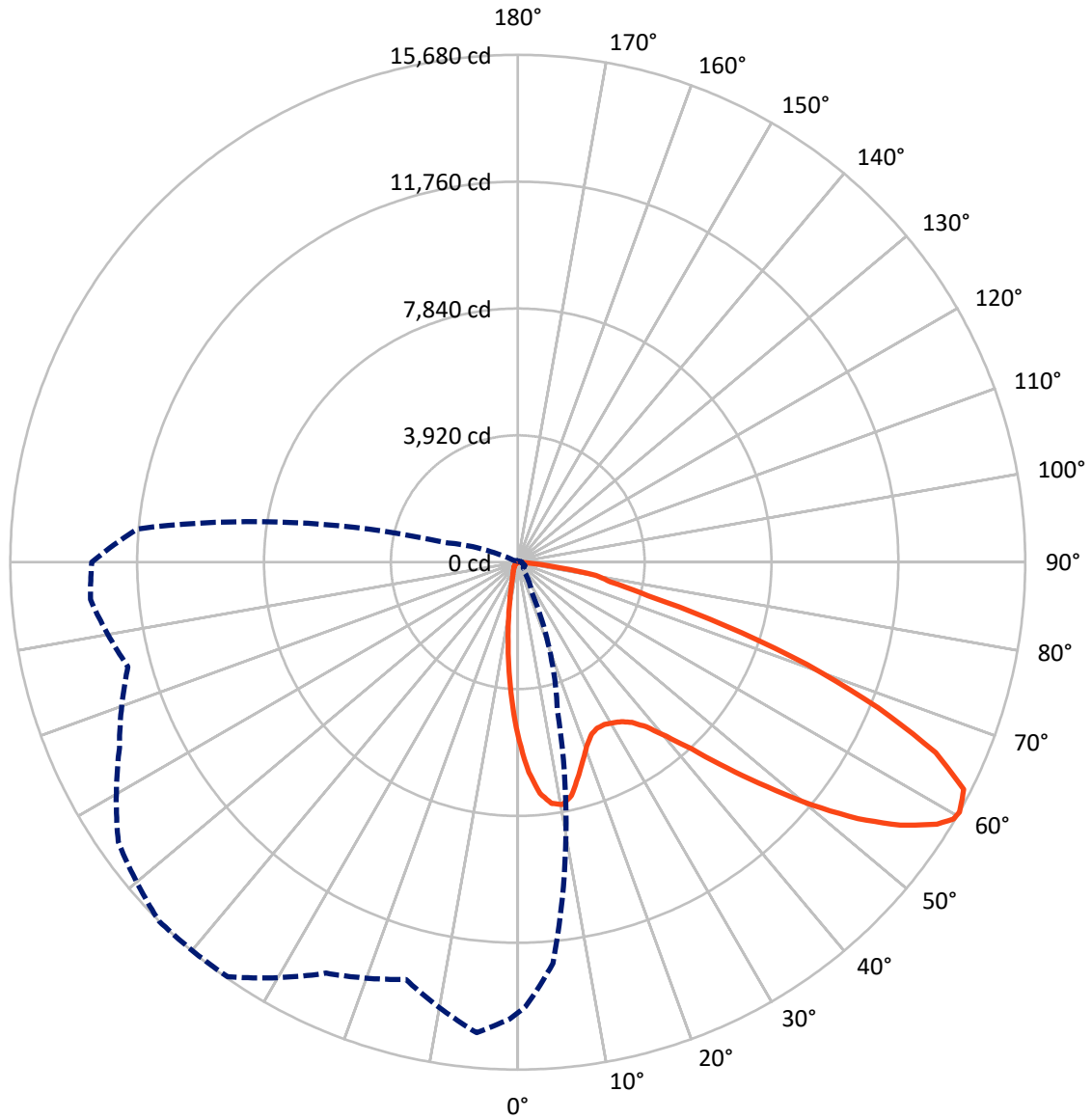
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2060.3	0.0	2060.3
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	14643.7	0.0	14643.7
	% Fixture	87.7	0.0	87.7
Total	Lumens	16704.0	0.0	16704.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.6	2.5
10°-20°	815.5	4.9
20°-30°	1195.8	7.2
30°-40°	1778.3	10.6
40°-50°	2588.0	15.5
50°-60°	3732.1	22.3
60°-70°	4104.9	24.6
70°-80°	1838.6	11.0
80°-90°	240.2	1.4
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°	16704.0	100.0
0°-180°	16704.0	100.0

Coefficient of Utilization

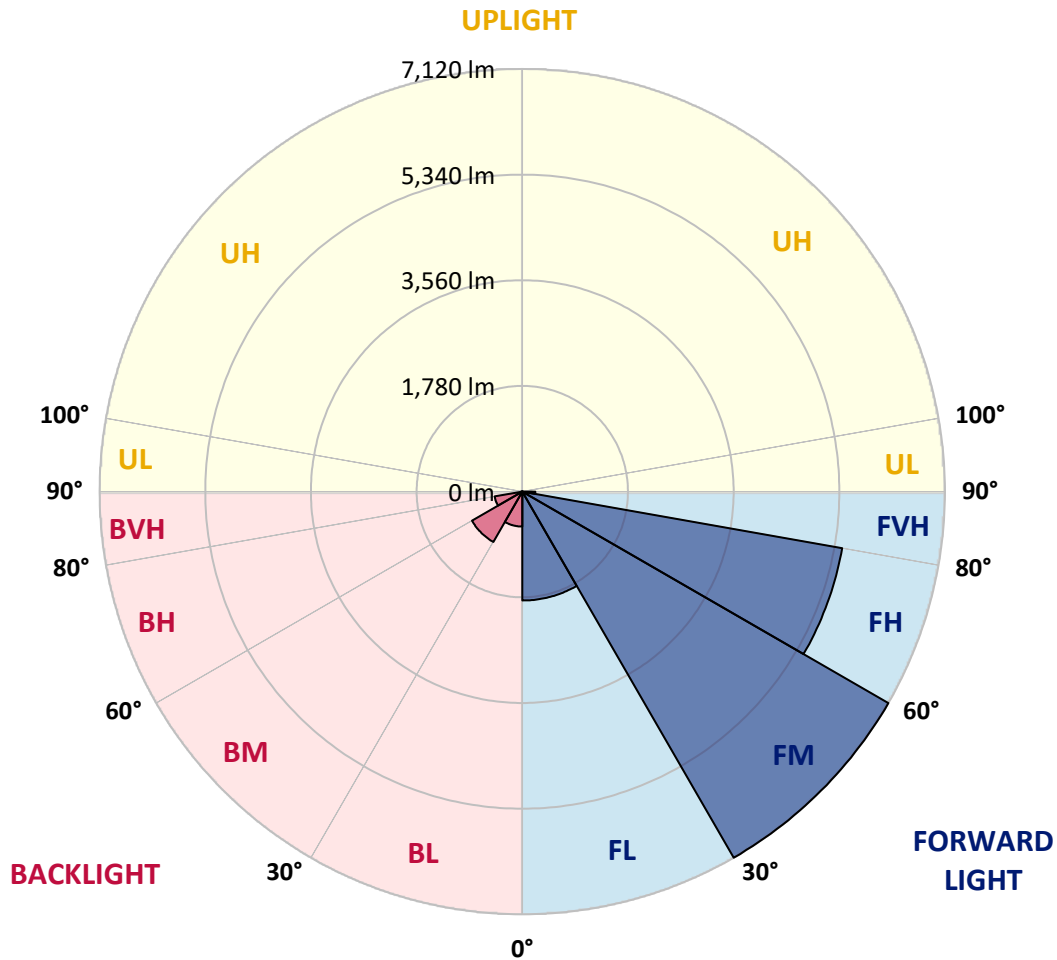


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1833.2	11.0			
FM	(30°-60°)	7119.8	42.6			
FH	(60°-80°)	5471.1	32.8			G3/7500
FVH	(80°-90°)	219.7	1.3			G2/225
BL	(0°-30°)	588.7	3.5	B2/1000		
BM	(30°-60°)	978.6	5.9	B1/1000		
BH	(60°-80°)	472.5	2.8	B1/500		G1/500
BVH	(80°-90°)	20.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9
2.5°	6069.4	6042.8	5981.8	5796.4	5635.2	5424.4	5211.1	5043.5	4940.6	4751.4	4665.1
5°	5880.3	5893.0	5716.5	5335.5	4911.4	4621.9	4305.8	4054.3	3777.5	3602.3	3418.2
7.5°	5386.3	5360.9	5169.2	4638.4	4122.9	3703.9	3303.9	2978.9	2774.4	2610.6	2473.5
10°	4963.5	4944.4	4699.4	4016.2	3462.6	3149.0	2878.5	2594.1	2374.4	2134.5	1942.7
12.5°	4698.1	4654.9	4373.0	3659.4	3208.7	2916.6	2622.1	2326.2	2022.7	1780.2	1547.8
15°	4609.2	4547.0	4233.4	3536.3	3046.2	2675.4	2305.9	1965.6	1616.4	1348.5	1173.3
17.5°	4770.5	4667.6	4333.7	3514.7	2851.9	2360.5	1905.9	1462.8	1099.6	895.2	787.3
20°	5140.0	5021.9	4587.6	3493.1	2636.0	2007.5	1448.8	1033.6	760.6	648.8	589.2
22.5°	5688.5	5526.0	4963.5	3527.4	2436.7	1663.4	1046.3	730.1	604.4	534.6	492.7
25°	6347.5	6211.7	5439.6	3649.3	2279.2	1392.9	808.8	596.8	509.2	466.0	434.3
27.5°	7070.0	6852.9	6055.5	3795.3	2135.7	1183.4	709.8	533.3	453.3	413.9	397.4
30°	7584.3	7415.4	6571.0	3896.9	1956.7	1026.0	648.8	525.7	454.6	407.6	377.1
32.5°	8092.2	7876.3	7002.7	3943.9	1825.9	916.8	561.2	458.4	398.7	374.6	344.1
35°	8635.6	8409.6	7433.2	3918.5	1728.1	844.4	509.2	408.9	341.6	300.9	270.5
37.5°	9185.4	8946.7	7861.1	3827.1	1667.2	815.2	468.5	388.5	322.5	280.6	247.6
40°	9838.1	9519.4	8262.3	3752.1	1603.7	799.9	441.9	375.8	308.6	264.1	231.1
42.5°	10371.4	10067.9	8642.0	3712.8	1560.5	764.4	441.9	365.7	299.7	250.1	215.9
45°	10876.8	10561.9	9052.1	3744.5	1542.8	720.0	447.0	364.4	293.3	240.0	205.7
47.5°	11299.6	11026.6	9473.7	3863.9	1519.9	671.7	420.3	382.2	289.5	231.1	195.5
50°	11798.6	11534.5	10031.1	4105.1	1479.3	623.5	387.3	411.4	288.2	223.5	186.7
52.5°	12502.0	12216.3	10800.6	4379.4	1414.5	549.8	356.8	407.6	283.2	210.8	177.8
55°	13361.7	13130.6	11691.9	4708.3	1325.6	467.3	308.6	361.9	267.9	189.2	162.5
57.5°	13912.7	13715.9	12359.8	4850.5	1189.8	382.2	271.7	303.5	245.1	168.9	144.8
59°	13977.5	13799.7	12499.5	4803.5	1100.9	349.2	254.0	260.3	238.7	157.5	134.6
60°	13922.9	13738.8	12443.6	4712.1	1018.3	326.3	238.7	231.1	240.0	151.1	127.0
62.5°	13572.5	13257.6	11901.4	4248.6	890.1	299.7	212.0	189.2	212.0	135.9	113.0
65°	12895.7	12423.3	10828.5	3596.0	839.3	284.4	180.3	158.7	161.3	119.4	97.8
67.5°	11713.5	11118.0	9400.0	2921.7	817.7	285.7	152.4	142.2	124.4	101.6	86.3
70°	9844.4	9250.2	7542.4	2403.7	807.6	285.7	129.5	121.9	104.1	85.1	74.9
72.5°	6976.1	6336.1	5087.9	1888.1	727.6	284.4	110.5	110.5	85.1	71.1	60.9
75°	3941.3	3946.4	3198.5	1335.8	604.4	234.9	88.9	87.6	62.2	54.6	45.7
77.5°	2297.0	2256.4	2156.1	573.9	280.6	106.7	62.2	53.3	43.2	39.4	33.0
80°	1180.9	971.4	946.0	208.2	100.3	67.3	43.2	30.5	27.9	25.4	22.9
82.5°	349.2	350.5	312.4	83.8	55.9	44.4	21.6	16.5	15.2	14.0	14.0
85°	24.1	15.2	17.8	25.4	34.3	17.8	1.3	3.8	3.8	5.1	6.3
87.5°	2.5	1.3	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°	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9
2.5°	4569.9	4625.7	4521.6	4524.2	4437.8	4465.7	4364.2	4397.2	4337.5	4383.2	4517.8
5°	3438.5	3451.2	3367.4	3340.7	3353.4	3405.5	3425.8	3333.1	3372.5	3295.0	3289.9
7.5°	2422.7	2437.9	2389.7	2383.3	2474.8	2453.2	2492.5	2397.3	2307.2	2346.5	2274.1
10°	1881.8	1818.3	1719.3	1691.3	1673.5	1685.0	1685.0	1598.6	1585.9	1551.6	1603.7
12.5°	1485.6	1408.2	1314.2	1187.2	1155.5	1152.9	1106.0	1029.8	1005.6	976.4	1019.6
15°	1079.3	1047.6	968.8	897.7	825.3	811.4	735.2	673.0	590.4	579.0	575.2
17.5°	759.3	712.3	711.1	670.4	628.5	600.6	529.5	458.4	426.6	422.8	422.8
20°	568.9	552.3	525.7	520.6	507.9	476.2	412.7	374.6	359.3	360.6	365.7
22.5°	478.7	467.3	443.1	431.7	426.6	398.7	351.7	326.3	318.7	318.7	320.0
25°	427.9	417.8	391.1	373.3	367.0	346.6	309.8	290.8	284.4	284.4	284.4
27.5°	389.8	377.1	349.2	333.9	322.5	299.7	276.8	257.8	251.4	251.4	252.7
30°	363.2	349.2	323.8	303.5	285.7	265.4	246.3	229.8	222.2	220.9	222.2
32.5°	327.6	314.9	289.5	276.8	256.5	232.4	217.1	201.9	194.3	195.5	194.3
35°	255.2	251.4	233.6	237.4	226.0	205.7	191.7	175.2	166.3	165.1	167.6
37.5°	232.4	217.1	196.8	198.1	194.3	186.7	163.8	146.0	139.7	139.7	140.9
40°	214.6	199.4	176.5	165.1	166.3	166.3	142.2	123.2	116.8	115.5	118.1
42.5°	199.4	184.1	158.7	139.7	134.6	140.9	120.6	101.6	95.2	92.7	95.2
45°	189.2	172.7	143.5	121.9	106.7	114.3	99.0	83.8	76.2	76.2	74.9
47.5°	179.0	163.8	132.1	105.4	88.9	85.1	81.3	67.3	59.7	58.4	59.7
50°	170.1	154.9	119.4	91.4	74.9	66.0	66.0	53.3	48.3	45.7	47.0
52.5°	161.3	144.8	107.9	81.3	64.8	53.3	47.0	43.2	39.4	38.1	39.4
55°	148.6	132.1	96.5	69.8	55.9	44.4	36.8	35.6	33.0	30.5	33.0
57.5°	133.3	118.1	85.1	59.7	44.4	34.3	30.5	29.2	26.7	25.4	25.4
59°	124.4	110.5	78.7	52.1	39.4	30.5	27.9	26.7	24.1	21.6	22.9
60°	119.4	107.9	74.9	48.3	35.6	27.9	25.4	24.1	21.6	20.3	21.6
62.5°	105.4	96.5	66.0	39.4	27.9	20.3	17.8	19.0	17.8	16.5	17.8
65°	92.7	85.1	55.9	30.5	21.6	14.0	12.7	16.5	15.2	14.0	15.2
67.5°	82.5	73.6	47.0	22.9	15.2	7.6	8.9	14.0	14.0	12.7	14.0
70°	71.1	63.5	38.1	16.5	7.6	3.8	6.3	10.2	12.7	11.4	12.7
72.5°	58.4	49.5	29.2	11.4	3.8	0.0	3.8	8.9	12.7	11.4	12.7
75°	45.7	36.8	21.6	6.3	0.0	0.0	1.3	7.6	12.7	11.4	12.7
77.5°	33.0	26.7	12.7	1.3	0.0	0.0	1.3	7.6	12.7	11.4	12.7
80°	21.6	19.0	5.1	0.0	0.0	0.0	1.3	7.6	12.7	12.7	14.0
82.5°	14.0	10.2	0.0	0.0	0.0	0.0	2.5	10.2	14.0	15.2	15.2
85°	6.3	0.0	0.0	0.0	0.0	0.0	5.1	12.7	16.5	16.5	16.5
87.5°	0.0	0.0	0.0	0.0	0.0	2.5	8.9	15.2	19.0	19.0	19.0
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°	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9
2.5°	4540.7	4620.7	4733.7	4907.6	5048.6	5270.8	5440.9	5673.3	5908.2	5979.3	6089.8
5°	3342.0	3444.9	3701.3	3935.0	4082.3	4552.1	4849.2	5317.7	5738.0	5939.9	6159.6
7.5°	2321.1	2443.0	2638.6	2964.9	3274.7	3656.9	4136.9	4672.7	5288.5	5576.8	5886.6
10°	1629.1	1781.5	2057.0	2324.9	2714.7	3077.9	3551.5	4143.2	4822.5	5162.8	5551.4
12.5°	1028.5	1164.4	1528.8	1829.7	2316.0	2737.6	3174.4	3710.2	4497.5	4846.7	5254.3
15°	587.9	702.2	872.3	1258.3	1798.0	2355.4	2900.1	3522.3	4331.1	4761.6	5202.2
17.5°	438.1	468.5	544.7	763.1	1254.5	1905.9	2647.4	3465.2	4444.2	4949.5	5452.3
20°	368.2	388.5	424.1	510.4	799.9	1467.8	2401.1	3475.3	4809.8	5444.7	5922.2
22.5°	330.1	342.8	372.0	427.9	546.0	1069.1	2112.9	3535.0	5253.0	6052.9	6604.0
25°	289.5	306.0	331.4	379.7	454.6	741.5	1828.5	3668.3	5873.9	6825.0	7343.0
27.5°	257.8	273.0	298.4	342.8	398.7	566.3	1497.0	3782.6	6529.1	7602.0	8026.1
30°	226.0	241.3	266.6	302.2	353.0	458.4	1140.2	3849.9	7165.2	8184.9	8511.2
32.5°	199.4	212.0	236.2	267.9	309.8	388.5	899.0	3780.1	7651.6	8714.4	8932.8
35°	172.7	187.9	208.2	237.4	274.3	331.4	747.9	3538.8	8069.3	9259.1	9337.8
37.5°	144.8	162.5	184.1	210.8	240.0	304.7	600.6	3272.2	8516.3	9938.4	9808.9
40°	121.9	138.4	158.7	187.9	214.6	279.3	462.2	2987.7	8998.8	10575.8	10323.1
42.5°	99.0	116.8	140.9	167.6	212.0	243.8	358.1	2693.2	9431.8	11130.7	10787.9
45°	78.7	94.0	119.4	153.6	210.8	209.5	276.8	2402.4	9758.1	11526.9	11134.5
47.5°	62.2	74.9	100.3	149.8	194.3	177.8	222.2	2222.1	10100.9	11883.7	11399.9
50°	49.5	62.2	86.3	156.2	170.1	152.4	186.7	2251.3	10432.3	12065.2	11509.1
52.5°	41.9	54.6	74.9	123.2	130.8	133.3	163.8	2385.9	10860.2	12259.5	11726.2
55°	36.8	48.3	63.5	86.3	101.6	119.4	149.8	2483.6	11432.9	12676.0	12204.9
57.5°	29.2	41.9	57.1	73.6	83.8	104.1	138.4	2491.3	11951.0	13210.6	12841.1
59°	26.7	38.1	53.3	69.8	74.9	94.0	130.8	2426.5	11970.0	13290.6	13133.1
60°	24.1	36.8	50.8	64.8	71.1	88.9	124.4	2351.6	11797.3	13163.6	13253.7
62.5°	20.3	31.7	44.4	52.1	60.9	73.6	107.9	2079.9	10960.6	12588.4	13030.3
65°	17.8	27.9	38.1	43.2	50.8	63.5	95.2	1664.7	10036.2	11808.8	12390.3
67.5°	16.5	25.4	33.0	36.8	44.4	58.4	85.1	1175.8	8838.8	10819.6	11429.1
70°	15.2	24.1	29.2	34.3	39.4	49.5	72.4	685.7	6808.4	9085.1	9728.9
72.5°	15.2	22.9	25.4	29.2	34.3	44.4	67.3	370.8	4654.9	6930.3	7762.0
75°	15.2	21.6	22.9	25.4	30.5	40.6	59.7	194.3	3009.3	4814.9	5942.5
77.5°	15.2	20.3	22.9	24.1	29.2	35.6	52.1	121.9	2004.9	3372.5	4016.2
80°	16.5	20.3	21.6	24.1	27.9	33.0	43.2	81.3	1178.3	2029.1	2444.3
82.5°	17.8	20.3	22.9	25.4	29.2	31.7	38.1	50.8	543.5	1342.1	1518.6
85°	19.0	21.6	24.1	26.7	30.5	31.7	35.6	36.8	88.9	605.7	819.0
87.5°	20.3	22.9	25.4	27.9	33.0	33.0	33.0	33.0	30.5	64.8	165.1
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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CATALOG NUMBER: GALN-SA4C-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9
2.5°	6229.4	6372.9	6473.2	6498.6	6426.2	6393.2	6301.8	6159.6	6073.3	6069.4
5°	6564.7	6901.1	7134.8	7174.1	7034.5	6798.3	6517.7	6155.8	5943.7	5880.3
7.5°	6507.5	7096.7	7472.5	7527.1	7292.2	6841.5	6298.0	5715.2	5484.1	5386.3
10°	6272.6	6991.3	7528.4	7614.7	7301.1	6666.2	5975.5	5325.4	5038.4	4963.5
12.5°	6072.0	6798.3	7275.7	7395.1	7157.6	6524.0	5782.5	5075.2	4767.9	4698.1
15°	5984.4	6569.7	6861.8	6922.7	6883.4	6435.1	5762.2	5037.1	4685.4	4609.2
17.5°	6072.0	6375.5	6412.3	6474.5	6562.1	6426.2	5957.7	5244.1	4864.4	4770.5
20°	6301.8	6206.6	6054.2	6080.9	6281.5	6463.1	6305.6	5702.5	5240.3	5140.0
22.5°	6692.9	6164.7	5819.3	5796.4	6050.4	6586.2	6816.1	6323.4	5787.6	5688.5
25°	7172.9	6270.1	5733.0	5683.4	5960.2	6766.5	7370.9	7084.0	6498.6	6347.5
27.5°	7696.0	6488.5	5733.0	5684.7	5952.6	6926.5	7845.8	7757.0	7235.1	7070.0
30°	7983.0	6668.8	5815.5	5760.9	6046.6	7019.2	8099.8	8355.0	7788.7	7584.3
32.5°	8239.5	6918.9	5976.8	5873.9	6243.4	7156.4	8327.1	8862.9	8229.3	8092.2
35°	8475.6	7186.8	6199.0	6079.6	6502.4	7344.3	8578.5	9396.2	8842.6	8635.6
37.5°	8735.9	7497.9	6545.6	6444.0	6935.4	7710.0	8876.9	10097.1	9445.7	9185.4
40°	9019.1	7858.5	7115.7	7072.6	7623.6	8123.9	9254.0	10845.0	10133.9	9838.1
42.5°	9307.3	8273.7	7814.1	7885.2	8403.3	8704.2	9641.3	11420.2	10697.7	10371.4
45°	9568.9	8804.5	8722.0	9073.7	9312.4	9270.5	9928.2	11825.3	11189.1	10876.8
47.5°	9899.0	9577.8	9820.3	10362.5	10368.8	9886.3	10145.4	12156.7	11611.9	11299.6
50°	10268.5	10490.7	11238.6	11791.0	11642.4	10492.0	10399.3	12549.0	12048.7	11798.6
52.5°	10696.4	11512.9	12549.0	13162.3	12815.7	11152.3	10822.2	12973.1	12742.0	12502.0
55°	11194.2	12210.0	13855.6	14344.5	13995.3	11972.6	11464.7	13548.3	13525.5	13361.7
57.5°	11756.7	12946.5	14612.4	15273.9	14962.8	12935.0	12362.4	14090.5	14004.2	13912.7
59°	12201.1	13324.8	14946.3	15632.0	15444.1	13609.3	12965.5	14428.3	14114.6	13977.5
60°	12470.3	13581.3	15069.5	15680.2	15637.1	14010.5	13347.7	14593.3	14113.4	13922.9
62.5°	13269.0	14029.6	15022.5	15465.7	15634.5	14780.0	14468.9	14774.9	13851.8	13572.5
65°	13553.4	13881.0	14244.2	14189.6	14334.3	14740.6	15185.0	14575.6	13293.1	12895.7
67.5°	12999.8	12251.9	12380.1	12015.7	11944.6	13105.2	14894.3	13600.4	12199.8	11713.5
70°	10958.0	9386.1	9321.3	9488.9	9029.3	10610.1	13374.4	11722.4	10395.5	9844.4
72.5°	8625.5	6633.2	6087.2	6704.3	6690.4	8094.7	11110.4	8318.2	7023.0	6976.1
75°	6783.1	4618.1	4053.1	4153.4	4346.4	5859.9	8848.9	5282.2	4324.8	3941.3
77.5°	4553.4	3272.2	3052.5	2929.3	3137.6	3762.3	5598.4	2864.6	2425.2	2297.0
80°	2624.6	2377.0	2699.5	2450.6	2562.4	2370.6	2784.6	1314.2	1090.7	1180.9
82.5°	1707.8	1353.6	1442.4	1071.7	1465.3	1478.0	893.9	388.5	328.9	349.2
85°	1067.9	634.9	356.8	254.0	505.4	929.5	279.3	24.1	27.9	24.1
87.5°	276.8	105.4	44.4	66.0	81.3	72.4	64.8	3.8	1.3	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)