

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: P527795

Luminaire Tested: **GALN-SA2D-750-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527795
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-SA2D-750-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 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: 8601 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

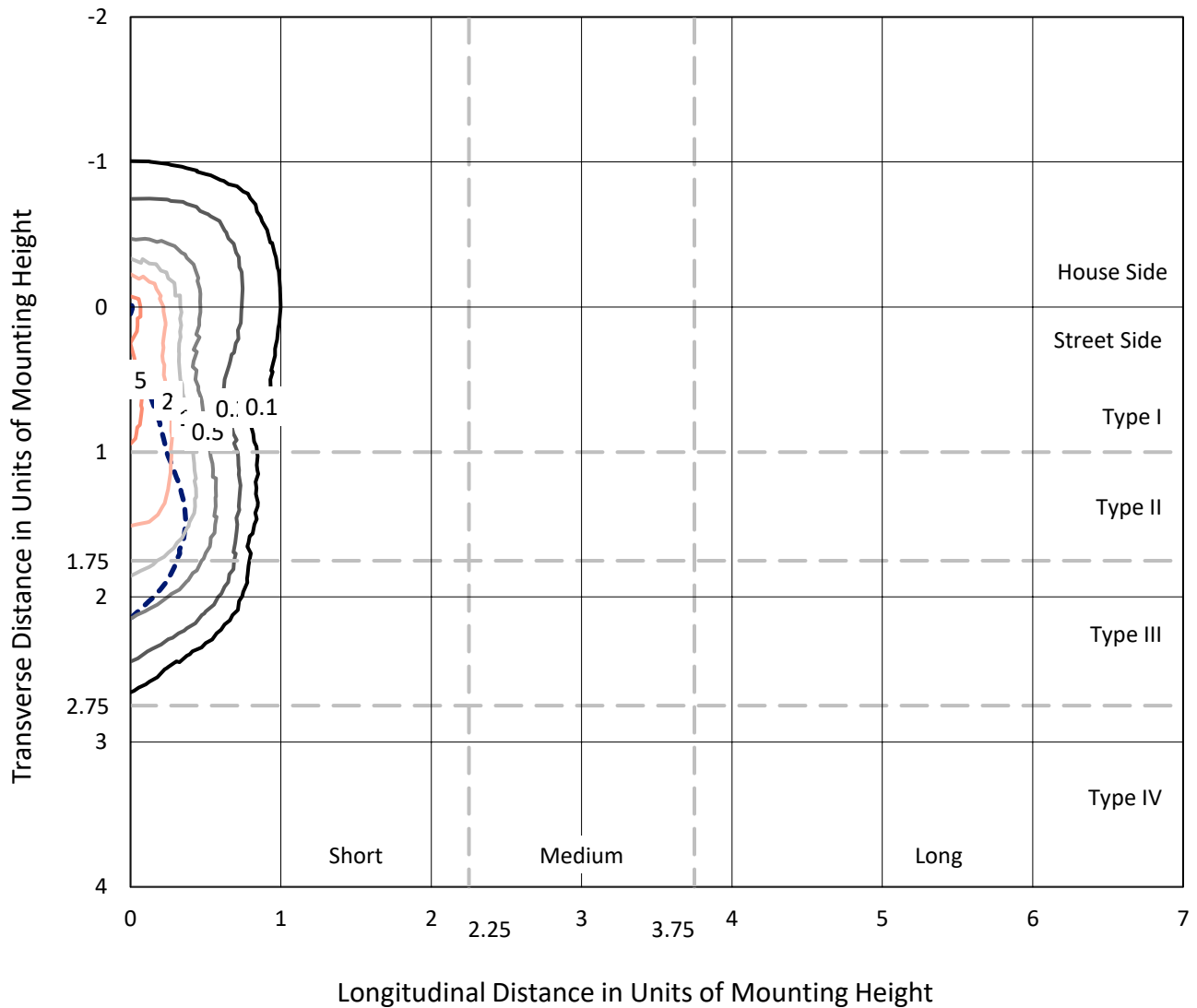
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

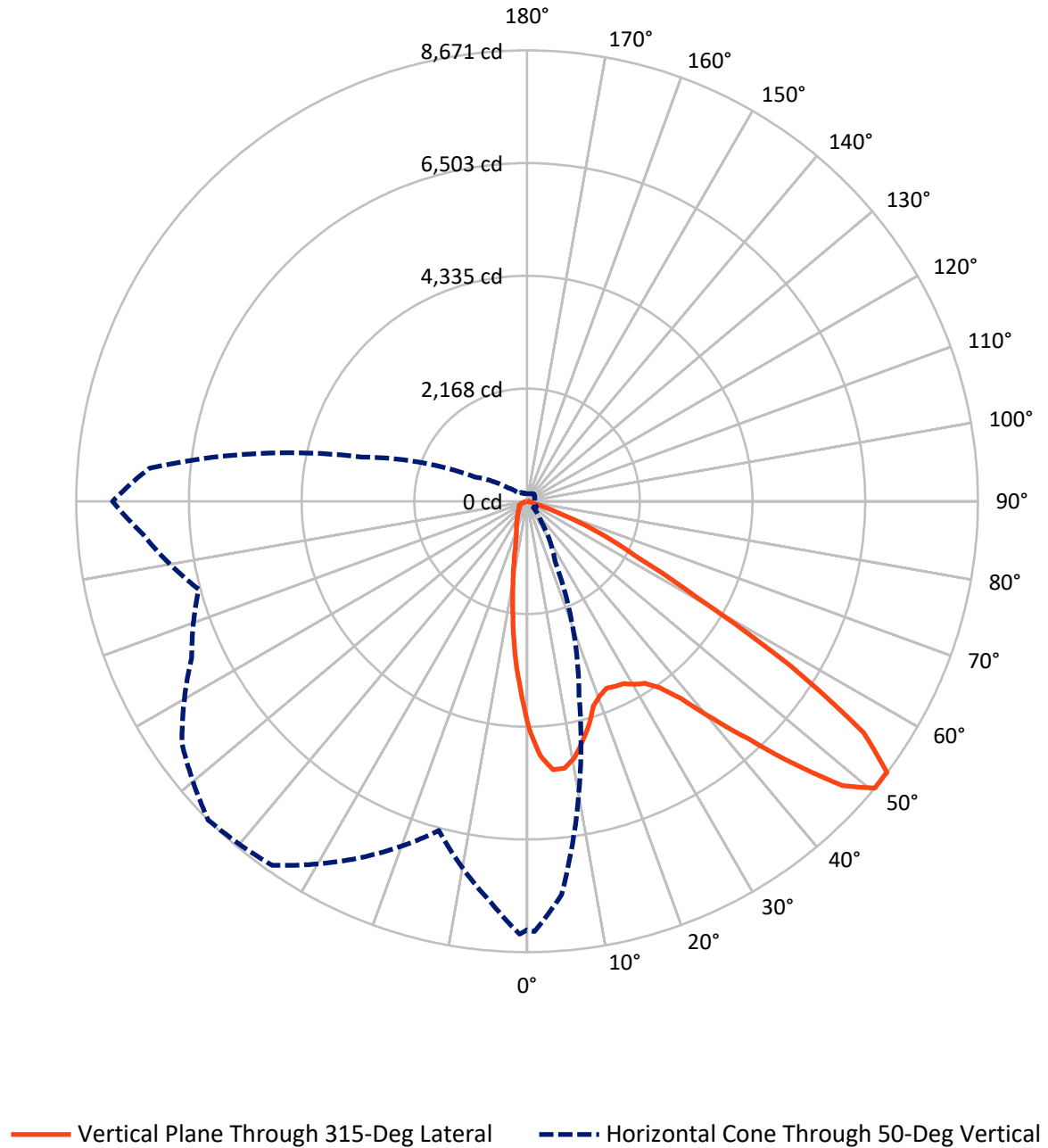
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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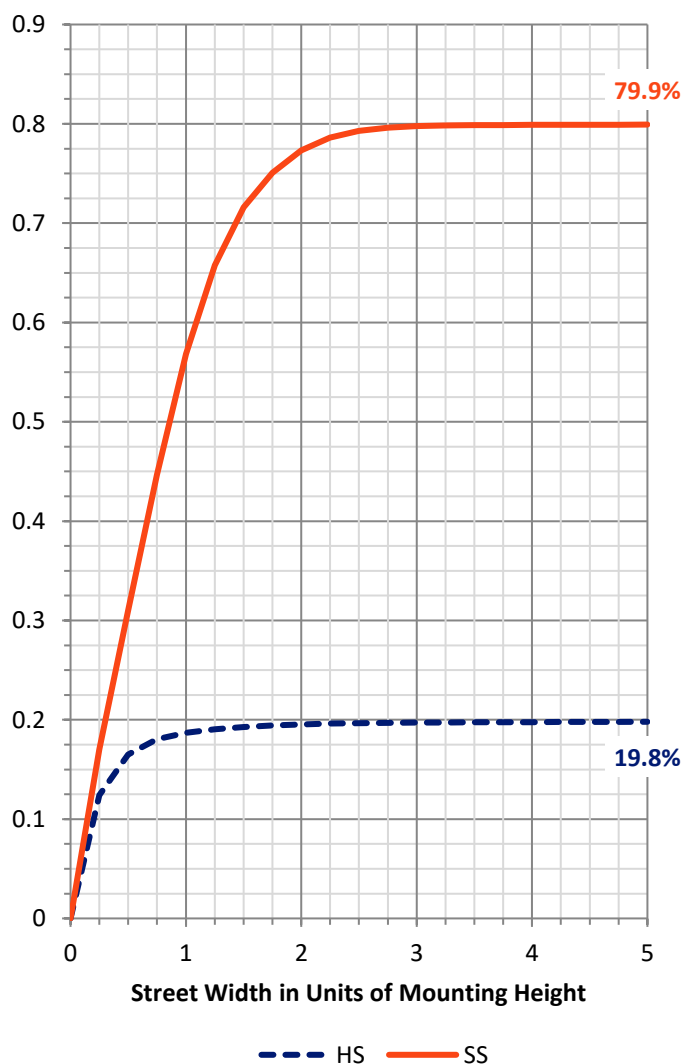
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1722.8	0.0	1722.8
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	6878.2	0.0	6878.2
	% Fixture	80.0	0.0	80.0
Total	Lumens	8601.0	0.0	8601.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.9	3.7
10°-20°	631.9	7.3
20°-30°	949.3	11.0
30°-40°	1424.8	16.6
40°-50°	2002.5	23.3
50°-60°	2160.0	25.1
60°-70°	1002.9	11.7
70°-80°	94.4	1.1
80°-90°	17.4	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°	8601.0	100.0
0°-180°	8601.0	100.0

Coefficient of Utilization



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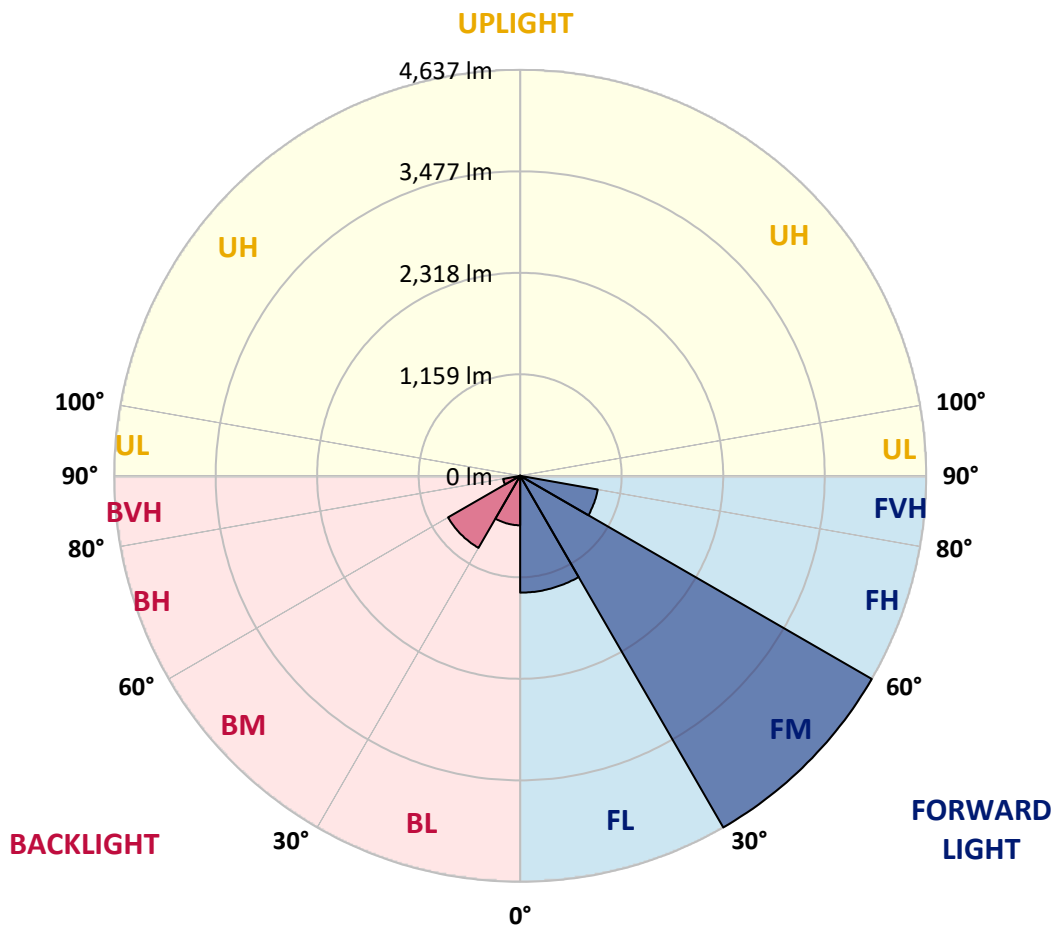
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1334.4	15.5			
FM (30°-60°)	4636.6	53.9			
FH (60°-80°)	899.4	10.5			G1/1800
FVH (80°-90°)	7.8	0.1			G0/10
BL (0°-30°)	564.7	6.6	B2/1000		
BM (30°-60°)	950.7	11.1	B1/1000		
BH (60°-80°)	197.8	2.3	B1/500		G1/500
BVH (80°-90°)	9.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4361.8	4361.8	4361.8	4361.8	4361.8	4361.8	4361.8	4361.8	4361.8	4361.8	4361.8
2.5°	4534.1	4464.2	4375.4	4302.1	4192.8	3972.7	3913.0	3841.3	3781.6	3701.4	3588.8
5°	4122.9	4100.7	4059.7	3783.3	3583.6	3317.4	3099.0	3006.8	2885.7	2786.7	2715.0
7.5°	3808.9	3720.2	3590.5	3312.3	2993.2	2708.2	2465.9	2324.2	2163.8	2109.2	2012.0
10°	3472.7	3493.2	3302.1	2911.3	2525.6	2295.2	2145.1	2008.5	1863.5	1767.9	1629.7
12.5°	3365.2	3298.6	3151.9	2669.0	2339.6	2124.6	1942.0	1773.0	1619.5	1465.9	1332.8
15°	3435.2	3332.8	3128.0	2617.8	2196.3	1928.3	1699.7	1471.0	1329.4	1133.1	994.9
17.5°	3686.0	3604.1	3329.4	2672.4	2122.9	1740.6	1401.0	1165.5	948.8	771.3	701.4
20°	4104.1	3988.1	3643.4	2742.3	2013.7	1513.7	1136.5	846.4	641.6	566.6	527.3
22.5°	4513.7	4450.5	4015.4	2877.1	1916.4	1312.3	853.2	570.0	479.5	465.9	440.3
25°	5293.5	5104.1	4583.6	3121.2	1841.3	1122.9	643.3	459.0	406.1	395.9	399.3
27.5°	5757.7	5599.0	5109.2	3283.3	1757.7	977.8	544.4	421.5	385.7	363.5	355.0
30°	6203.1	6018.8	5370.3	3378.9	1578.5	824.2	482.9	404.4	395.9	363.5	353.2
32.5°	6546.1	6365.2	5747.5	3522.2	1505.1	725.3	397.6	315.7	293.5	290.1	320.8
35°	7071.7	6878.9	6070.0	3600.7	1448.8	674.1	344.7	281.6	256.0	245.7	247.4
37.5°	7561.5	7430.1	6368.6	3631.4	1389.1	658.7	308.9	252.6	230.4	223.6	221.8
40°	7971.0	7677.5	6651.9	3663.8	1363.5	629.7	286.7	230.4	215.0	204.8	204.8
42.5°	8158.7	7860.1	6969.3	3645.1	1356.7	583.6	286.7	211.6	199.7	189.4	187.7
45°	8117.8	7996.6	7110.9	3636.5	1356.7	537.5	261.1	206.5	189.4	175.8	172.4
47.5°	8223.6	8064.9	7288.4	3672.4	1329.4	505.1	220.1	216.7	179.2	162.1	158.7
50°	8242.4	8273.1	7597.3	3858.4	1269.6	464.2	172.4	213.3	172.4	146.8	143.3
52°	8365.2	8174.1	7691.2	3957.4	1206.5	433.4	145.1	182.6	165.5	136.5	133.1
52.5°	8196.3	8320.9	7713.3	3993.2	1213.3	413.0	139.9	179.2	162.1	136.5	128.0
55°	8006.9	8126.3	7622.9	4070.0	1112.6	324.2	109.2	129.7	146.8	119.5	114.3
57.5°	6959.1	7080.2	6624.6	3727.0	906.1	228.7	90.4	97.3	129.7	110.9	105.8
60°	6186.0	6099.0	5559.7	3109.2	643.3	128.0	71.7	75.1	141.6	102.4	100.7
62.5°	5653.6	5467.6	4646.8	2401.0	392.5	85.3	56.3	58.0	109.2	95.6	95.6
65°	4182.6	3974.4	3087.0	1452.2	192.8	59.7	42.7	46.1	68.3	81.9	81.9
67.5°	2387.4	2307.2	1491.5	655.3	80.2	37.5	32.4	35.8	52.9	66.6	63.1
70°	1097.3	984.6	573.4	138.2	37.5	25.6	25.6	29.0	42.7	49.5	46.1
72.5°	320.8	303.8	139.9	22.2	15.4	15.4	17.1	22.2	32.4	37.5	34.1
75°	23.9	15.4	10.2	6.8	6.8	10.2	13.7	22.2	32.4	35.8	29.0
77.5°	1.7	3.4	1.7	1.7	5.1	10.2	15.4	27.3	42.7	44.4	32.4
80°	1.7	1.7	0.0	1.7	5.1	10.2	17.1	30.7	47.8	51.2	27.3
82.5°	0.0	0.0	0.0	1.7	6.8	13.7	20.5	32.4	44.4	54.6	29.0
85°	0.0	0.0	0.0	1.7	10.2	18.8	23.9	8.5	5.1	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°	4361.8	4361.8	4361.8	4361.8	4361.8	4361.8	4361.8	4361.8	4361.8	4361.8	4361.8
2.5°	3669.0	3624.6	3607.5	3622.9	3617.8	3612.6	3706.5	3686.0	3682.6	3713.3	3706.5
5°	2754.3	2675.8	2890.8	2803.8	2894.2	2948.8	2959.1	2964.2	3027.3	2960.8	3047.8
7.5°	1962.5	1982.9	1981.2	2039.3	2143.4	2235.5	2290.1	2247.4	2244.0	2235.5	2198.0
10°	1568.3	1532.4	1525.6	1512.0	1544.4	1622.9	1689.4	1636.5	1599.0	1650.2	1634.8
12.5°	1281.6	1232.1	1204.8	1150.2	1151.9	1204.8	1204.8	1204.8	1242.3	1271.3	1293.5
15°	982.9	942.0	942.0	887.4	875.4	877.1	904.4	907.9	967.6	984.6	993.2
17.5°	687.7	665.5	691.1	713.3	699.7	703.1	713.3	716.7	725.3	718.4	735.5
20°	529.0	525.6	532.4	571.7	600.7	617.7	605.8	588.7	578.5	554.6	554.6
22.5°	448.8	455.6	467.6	500.0	537.5	547.8	534.1	494.9	464.2	460.8	462.5
25°	399.3	406.1	424.9	445.4	465.9	482.9	469.3	440.3	423.2	407.9	407.9
27.5°	368.6	372.0	382.3	397.6	414.7	428.3	423.2	407.9	389.1	382.3	366.9
30°	344.7	349.8	361.8	365.2	380.5	387.4	378.8	375.4	363.5	355.0	349.8
32.5°	332.8	331.1	339.6	343.0	344.7	349.8	339.6	344.7	343.0	329.4	324.2
35°	250.9	264.5	286.7	305.5	310.6	317.4	315.7	308.9	290.1	274.7	256.0
37.5°	225.3	233.8	245.7	261.1	281.6	290.1	286.7	269.6	247.4	237.2	233.8
40°	208.2	213.3	223.6	233.8	254.3	269.6	257.7	242.3	225.3	216.7	211.6
42.5°	192.8	194.5	199.7	209.9	225.3	249.1	228.7	208.2	201.4	196.2	192.8
45°	175.8	175.8	182.6	187.7	204.8	227.0	206.5	187.7	184.3	180.9	179.2
47.5°	162.1	163.8	167.2	174.1	187.7	203.1	189.4	174.1	165.5	163.8	160.4
50°	145.1	146.8	153.6	160.4	177.5	186.0	177.5	160.4	151.9	146.8	146.8
52°	131.4	136.5	143.3	157.0	168.9	182.6	172.4	153.6	143.3	138.2	134.8
52.5°	129.7	133.1	139.9	155.3	168.9	180.9	170.6	151.9	139.9	136.5	133.1
55°	116.0	121.2	133.1	151.9	167.2	180.9	167.2	150.2	133.1	124.6	121.2
57.5°	110.9	114.3	129.7	153.6	165.5	180.9	167.2	150.2	133.1	117.7	114.3
60°	105.8	112.6	129.7	148.5	163.8	182.6	168.9	148.5	129.7	110.9	110.9
62.5°	100.7	105.8	128.0	145.1	157.0	175.8	162.1	145.1	124.6	105.8	104.1
65°	87.0	95.6	112.6	121.2	134.8	151.9	138.2	126.3	109.2	93.9	92.2
67.5°	66.6	70.0	83.6	93.9	102.4	117.7	110.9	95.6	83.6	71.7	71.7
70°	46.1	49.5	59.7	64.8	73.4	81.9	76.8	64.8	56.3	49.5	47.8
72.5°	32.4	34.1	37.5	41.0	44.4	47.8	46.1	37.5	32.4	30.7	29.0
75°	25.6	29.0	30.7	29.0	27.3	25.6	25.6	22.2	18.8	17.1	17.1
77.5°	25.6	27.3	25.6	22.2	18.8	17.1	15.4	13.7	10.2	8.5	10.2
80°	22.2	22.2	22.2	18.8	17.1	15.4	13.7	11.9	10.2	8.5	8.5
82.5°	23.9	23.9	22.2	18.8	18.8	15.4	15.4	13.7	11.9	8.5	8.5
85°	0.0	0.0	0.0	3.4	8.5	15.4	15.4	13.7	11.9	10.2	10.2
87.5°	0.0	0.0	0.0	0.0	1.7	3.4	6.8	8.5	10.2	10.2	10.2
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°	4361.8	4361.8	4361.8	4361.8	4361.8	4361.8	4361.8	4361.8	4361.8	4361.8	4361.8
2.5°	3767.9	3832.8	3955.6	4078.5	4153.6	4242.3	4402.7	4488.1	4599.0	4653.6	4761.1
5°	3035.8	3189.4	3244.0	3384.0	3534.1	3684.3	3923.2	4186.0	4404.5	4554.6	4749.2
7.5°	2215.0	2250.9	2462.5	2556.3	2802.1	3075.1	3401.0	3732.1	4008.5	4254.3	4402.7
10°	1660.4	1791.8	1924.9	2104.1	2302.1	2583.6	2895.9	3261.1	3619.5	3865.2	4052.9
12.5°	1334.5	1438.6	1616.0	1808.9	2052.9	2238.9	2552.9	2914.7	3378.9	3619.5	3866.9
15°	1010.2	1143.3	1344.7	1544.4	1802.1	1998.3	2315.7	2771.3	3368.6	3699.7	3913.0
17.5°	749.1	839.6	1020.5	1244.0	1506.8	1783.3	2211.6	2756.0	3482.9	3877.1	4097.3
20°	573.4	604.1	718.4	918.1	1203.1	1564.9	2042.7	2822.5	3820.8	4308.9	4532.4
22.5°	464.2	477.8	522.2	660.4	936.9	1373.7	1962.5	2868.6	4201.4	4826.0	5124.6
25°	404.4	401.0	430.0	489.8	732.1	1194.5	1860.1	3042.7	4667.3	5433.5	5701.4
27.5°	368.6	368.6	382.3	424.9	607.5	1078.5	1795.2	3167.2	5136.5	5967.6	6112.7
30°	349.8	353.2	392.5	406.1	505.1	940.3	1687.7	3293.5	5585.3	6308.9	6508.6
32.5°	324.2	310.6	302.0	336.2	424.9	815.7	1580.2	3346.4	5948.8	6727.0	6897.6
35°	249.1	242.3	252.6	278.2	365.2	709.9	1460.8	3406.2	6366.9	7211.6	7245.8
37.5°	225.3	223.6	230.4	252.6	307.2	617.7	1375.4	3390.8	6686.0	7612.7	7520.5
40°	208.2	208.2	213.3	232.1	274.7	552.9	1286.7	3377.1	6994.9	8063.2	7793.5
42.5°	194.5	194.5	203.1	215.0	261.1	510.2	1220.1	3358.4	7254.3	8339.6	7954.0
45°	175.8	180.9	194.5	206.5	264.5	481.2	1170.7	3286.7	7343.0	8336.2	7877.2
47.5°	162.1	168.9	182.6	199.7	238.9	472.7	1136.5	3223.6	7312.3	8131.4	7636.5
50°	146.8	155.3	174.1	203.1	203.1	455.6	1100.7	3279.9	7290.1	7972.7	7406.2
52°	136.5	143.3	167.2	198.0	177.5	419.8	1078.5	3389.1	7380.6	7952.2	7303.8
52.5°	134.8	139.9	162.1	194.5	168.9	413.0	1063.1	3414.7	7409.6	7901.1	7373.7
55°	119.5	126.3	148.5	151.9	138.2	339.6	1013.7	3472.7	7266.2	7800.4	7307.2
57.5°	112.6	116.0	131.4	124.6	119.5	256.0	872.0	3382.3	6453.9	6928.4	6798.7
60°	104.1	107.5	122.9	97.3	100.7	179.2	655.3	2936.9	5182.6	5773.1	6006.8
62.5°	100.7	99.0	116.0	78.5	85.3	129.7	462.5	2387.4	3993.2	4752.6	5157.0
65°	88.7	87.0	83.6	66.6	73.4	100.7	276.5	1558.0	2814.0	3595.6	3817.4
67.5°	68.3	71.7	61.4	52.9	61.4	78.5	153.6	698.0	1476.1	2157.0	2336.2
70°	47.8	51.2	49.5	46.1	54.6	64.8	88.7	238.9	610.9	1133.1	1249.2
72.5°	29.0	35.8	37.5	39.2	47.8	56.3	63.1	76.8	162.1	401.0	498.3
75°	17.1	23.9	29.0	34.1	39.2	47.8	52.9	54.6	56.3	75.1	121.2
77.5°	11.9	17.1	25.6	32.4	39.2	47.8	56.3	59.7	56.3	52.9	56.3
80°	10.2	17.1	23.9	30.7	41.0	49.5	56.3	56.3	54.6	47.8	51.2
82.5°	10.2	17.1	25.6	32.4	39.2	47.8	54.6	56.3	51.2	47.8	49.5
85°	11.9	18.8	27.3	34.1	42.7	39.2	35.8	29.0	27.3	22.2	23.9
87.5°	11.9	17.1	17.1	18.8	20.5	20.5	20.5	18.8	15.4	13.7	13.7
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-SA2D-750-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4361.8	4361.8	4361.8	4361.8	4361.8	4361.8	4361.8	4361.8	4361.8	4361.8
2.5°	4766.2	4902.7	4897.6	4901.0	4880.6	4742.3	4675.8	4506.8	4554.6	4534.1
5°	4948.8	5083.6	5199.7	5186.0	5029.0	4841.3	4563.2	4300.4	4228.7	4122.9
7.5°	4766.2	5090.5	5198.0	5182.6	4950.5	4709.9	4266.2	4003.4	3878.9	3808.9
10°	4476.1	4851.6	4984.7	5012.0	4855.0	4489.8	4081.9	3660.4	3593.9	3472.7
12.5°	4310.6	4583.6	4665.5	4738.9	4684.3	4411.3	3942.0	3537.6	3445.4	3365.2
15°	4175.8	4337.9	4372.0	4455.6	4488.1	4341.3	4015.4	3670.7	3443.7	3435.2
17.5°	4300.4	4233.8	4109.2	4134.8	4237.2	4343.0	4204.8	3933.5	3713.3	3686.0
20°	4506.8	4213.3	3931.8	3994.9	4080.2	4404.5	4491.5	4300.4	4174.1	4104.1
22.5°	4744.0	4249.2	3875.4	3906.2	4068.3	4542.7	4955.7	4849.8	4614.4	4513.7
25°	5182.6	4348.1	3919.8	3940.3	4162.1	4735.5	5375.4	5453.9	5314.0	5293.5
27.5°	5610.9	4604.1	4017.1	3971.0	4209.9	4923.2	5629.7	6051.2	5805.5	5757.7
30°	5829.4	4812.3	4162.1	4083.6	4407.9	5037.6	5783.3	6440.3	6225.3	6203.1
32.5°	6163.8	5001.7	4274.8	4174.1	4518.8	5179.2	6070.0	6865.2	6657.0	6546.1
35°	6303.8	5208.2	4522.2	4404.5	4836.2	5377.2	6216.7	7244.1	7179.2	7071.7
37.5°	6573.4	5430.1	4814.0	4807.2	5220.2	5634.8	6481.3	7759.4	7747.5	7561.5
40°	6595.6	5672.4	5274.8	5489.8	5814.0	6083.6	6713.3	7902.8	8097.3	7971.0
42.5°	6629.7	6097.3	6071.7	6249.2	6527.3	6469.3	6721.9	7936.9	8233.8	8158.7
45°	6645.1	6522.2	6882.3	7209.9	7326.0	6974.4	6641.7	7872.0	8305.5	8117.8
47.5°	6522.2	6887.4	7537.6	8170.7	8204.8	7285.0	6607.5	7805.5	8348.2	8223.6
50°	6539.3	7116.1	8104.1	8670.7	8546.1	7559.8	6554.6	7764.5	8326.0	8242.4
52°	6498.3	7121.2	8184.3	8660.4	8573.4	7407.9	6464.2	7607.5	8305.5	8365.2
52.5°	6544.4	7090.5	8100.7	8667.3	8554.6	7483.0	6452.2	7694.6	8317.4	8196.3
55°	6385.7	6725.3	7611.0	7851.6	7834.5	6791.8	6085.3	7406.2	8005.1	8006.9
57.5°	5771.4	5829.4	5969.3	5964.2	5885.7	5339.6	5204.8	6810.6	7136.5	6959.1
60°	5085.3	4267.9	3890.8	3737.2	3650.2	3561.4	4604.1	6230.4	6261.1	6186.0
62.5°	4394.2	2959.1	2457.3	2414.7	2435.2	2759.4	4450.5	6000.0	5815.7	5653.6
65°	3546.1	2157.0	1785.0	1728.7	1928.3	2278.2	3602.4	4600.7	4317.4	4182.6
67.5°	2227.0	1573.4	1206.5	1100.7	1341.3	1568.3	2366.9	2890.8	2573.4	2387.4
70°	1320.8	878.8	546.1	489.8	551.2	836.2	1325.9	1442.0	1192.8	1097.3
72.5°	520.5	322.5	151.9	129.7	134.8	293.5	488.1	476.1	360.1	320.8
75°	139.9	97.3	52.9	42.7	35.8	54.6	78.5	51.2	18.8	23.9
77.5°	64.8	58.0	46.1	35.8	27.3	20.5	10.2	3.4	3.4	1.7
80°	56.3	49.5	42.7	35.8	27.3	17.1	8.5	1.7	1.7	1.7
82.5°	52.9	46.1	39.2	32.4	25.6	17.1	8.5	1.7	0.0	0.0
85°	22.2	29.0	32.4	30.7	27.3	17.1	8.5	1.7	0.0	0.0
87.5°	11.9	10.2	8.5	6.8	5.1	3.4	3.4	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)