

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: P528289

Luminaire Tested: **GALN-SA3B-760-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528289
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-SA3B-760-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 800mA 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: 9391 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

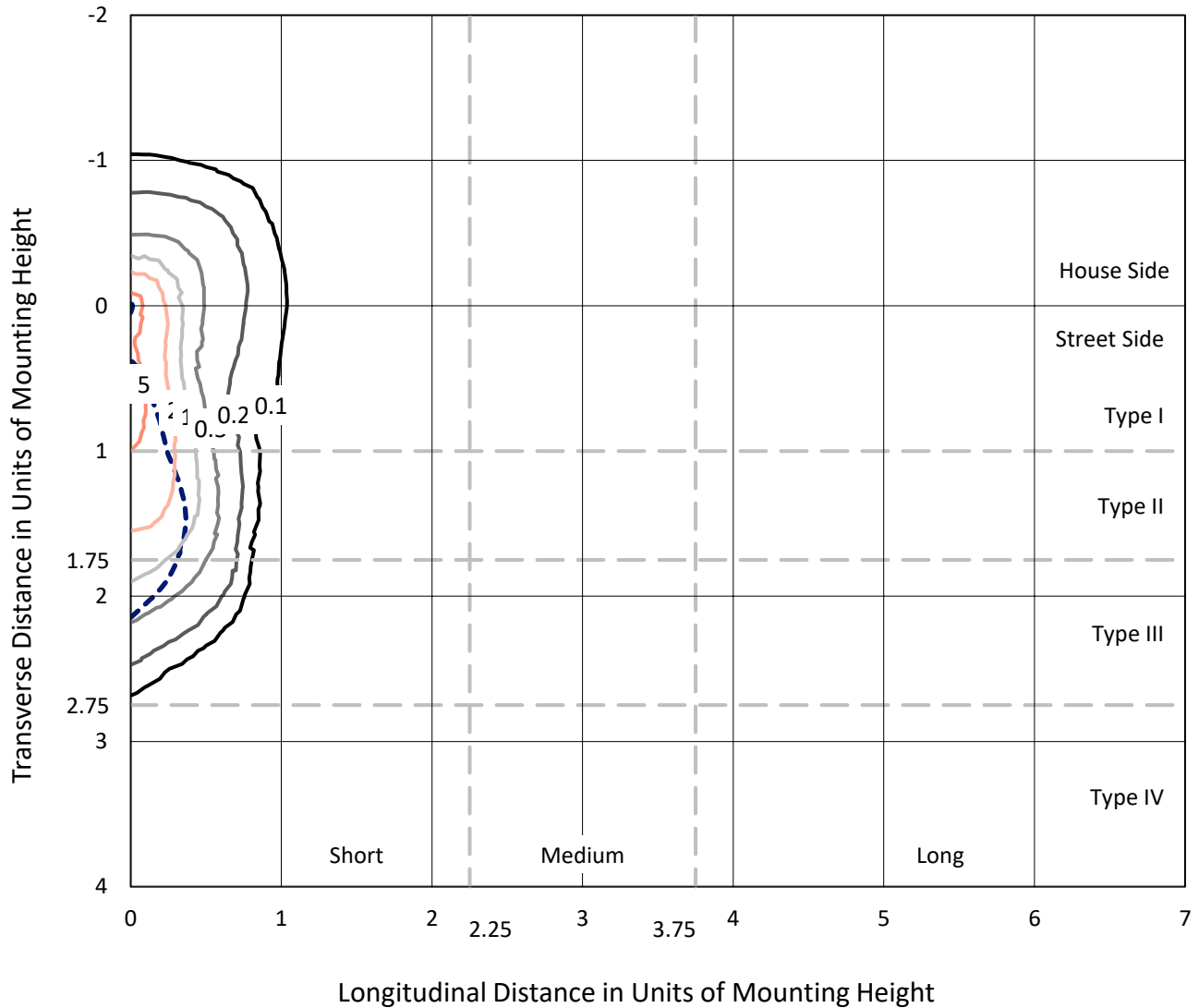
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

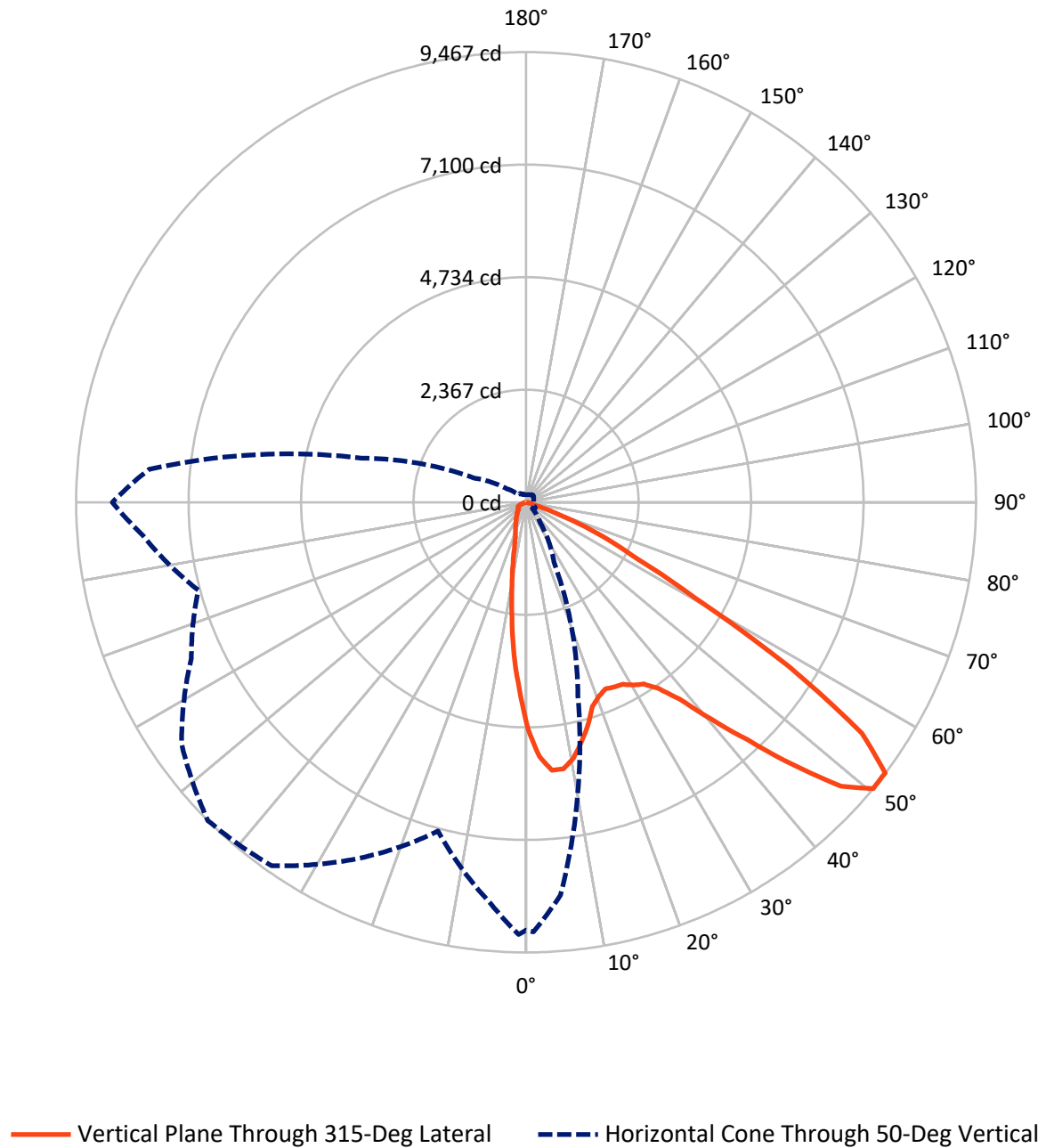
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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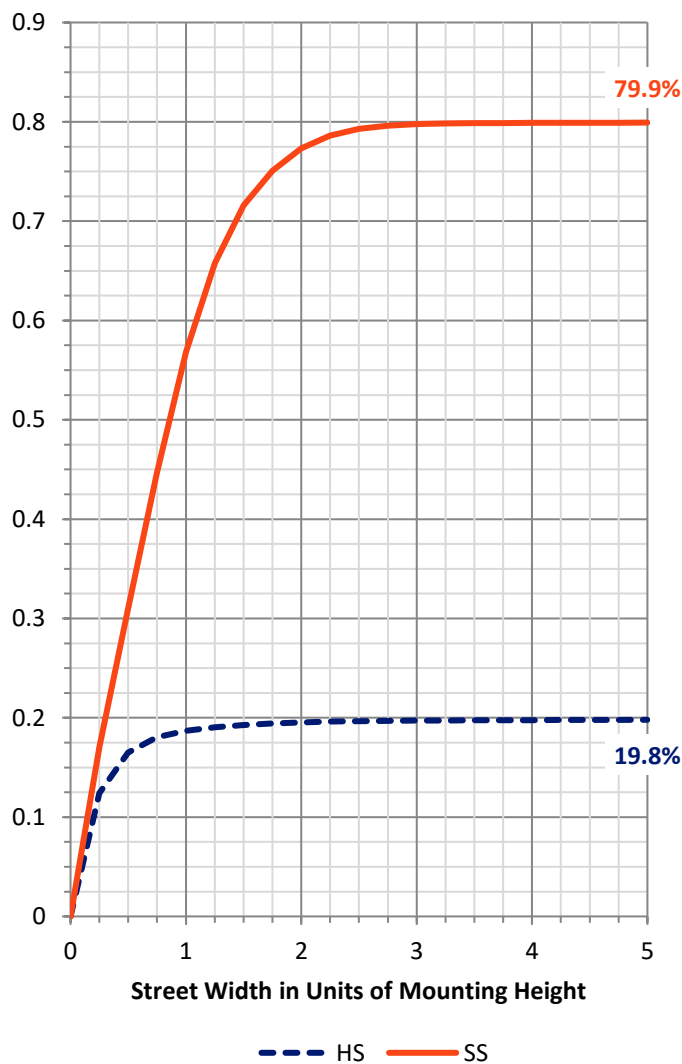
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1881.0	0.0	1881.0
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	7510.0	0.0	7510.0
	% Fixture	80.0	0.0	80.0
Total	Lumens	9391.0	0.0	9391.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.1	3.7
10°-20°	689.9	7.3
20°-30°	1036.4	11.0
30°-40°	1555.7	16.6
40°-50°	2186.4	23.3
50°-60°	2358.4	25.1
60°-70°	1095.0	11.7
70°-80°	103.0	1.1
80°-90°	19.0	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°	9391.0	100.0
0°-180°	9391.0	100.0

Coefficient of Utilization



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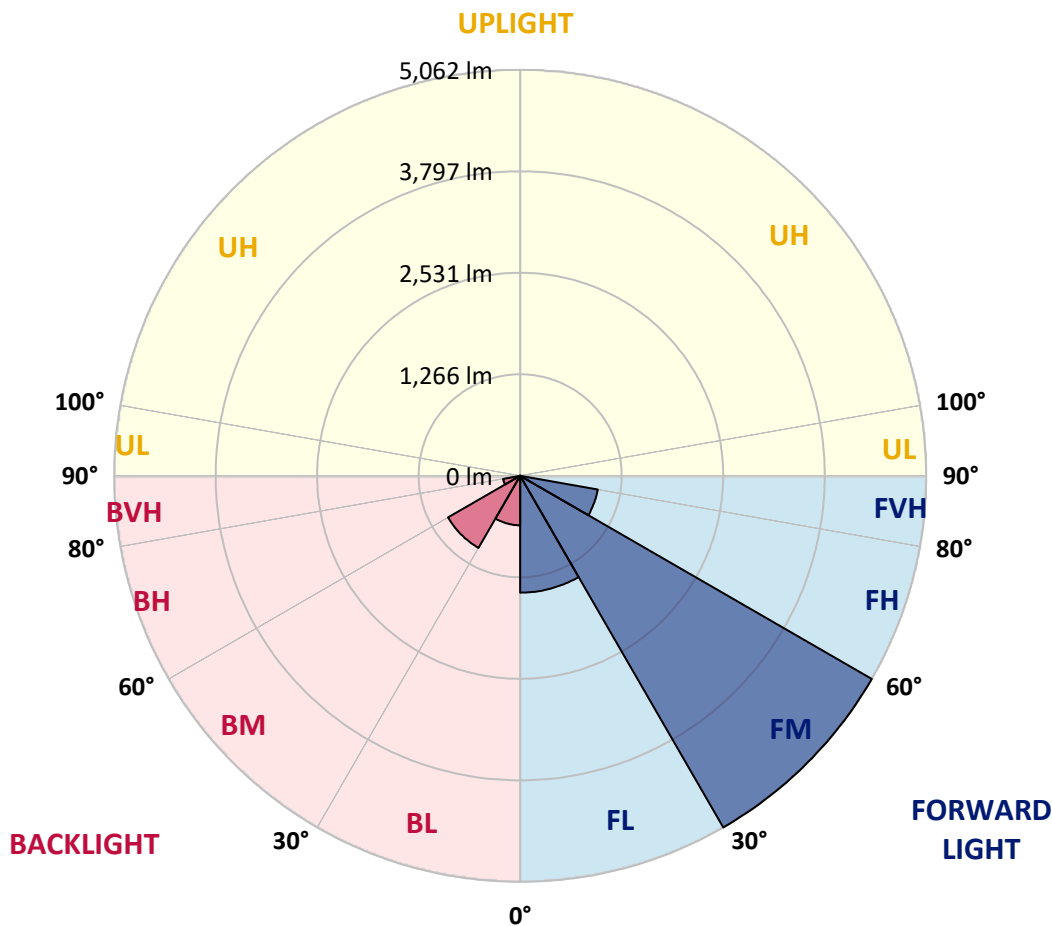
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1456.9	15.5			
FM (30°-60°)	5062.5	53.9			
FH (60°-80°)	982.0	10.5			G1/1800
FVH (80°-90°)	8.6	0.1			G0/10
BL (0°-30°)	616.5	6.6	B2/1000		
BM (30°-60°)	1038.0	11.1	B2/2500		
BH (60°-80°)	216.0	2.3	B1/500		G1/500
BVH (80°-90°)	10.4	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4762.4	4762.4	4762.4	4762.4	4762.4	4762.4	4762.4	4762.4	4762.4	4762.4	4762.4
2.5°	4950.6	4874.2	4777.3	4697.2	4578.0	4337.6	4272.4	4194.1	4128.9	4041.4	3918.4
5°	4501.6	4477.3	4432.6	4130.8	3912.8	3622.1	3383.6	3283.0	3150.7	3042.7	2964.4
7.5°	4158.7	4061.8	3920.2	3616.5	3268.1	2956.9	2692.4	2537.7	2362.6	2303.0	2196.8
10°	3791.7	3814.0	3605.4	3178.7	2757.6	2506.0	2342.1	2193.0	2034.6	1930.3	1779.4
12.5°	3674.3	3601.6	3441.4	2914.1	2554.5	2319.7	2120.4	1935.9	1768.2	1600.5	1455.2
15°	3750.7	3638.9	3415.3	2858.2	2398.0	2105.5	1855.8	1606.1	1451.5	1237.2	1086.3
17.5°	4024.6	3935.1	3635.2	2917.8	2317.9	1900.5	1529.7	1272.6	1036.0	842.2	765.8
20°	4481.1	4354.4	3978.0	2994.2	2198.6	1652.7	1240.9	924.2	700.6	618.6	575.7
22.5°	4928.2	4859.3	4384.2	3141.4	2092.4	1432.8	931.6	622.3	523.6	508.7	480.7
25°	5779.7	5572.9	5004.6	3407.9	2010.4	1226.0	702.4	501.2	443.4	432.3	436.0
27.5°	6286.5	6113.3	5578.5	3584.9	1919.1	1067.6	594.4	460.2	421.1	396.9	387.6
30°	6772.8	6571.6	5863.6	3689.2	1723.5	899.9	527.3	441.6	432.3	396.9	385.7
32.5°	7147.4	6949.9	6275.4	3845.7	1643.4	791.9	434.1	344.7	320.5	316.7	350.3
35°	7721.2	7510.7	6627.5	3931.4	1581.9	736.0	376.4	307.4	279.5	268.3	270.2
37.5°	8256.0	8112.5	6953.6	3965.0	1516.7	719.2	337.2	275.8	251.5	244.1	242.2
40°	8703.2	8382.7	7262.9	4000.4	1488.7	687.5	313.0	251.5	234.8	223.6	223.6
42.5°	8908.1	8582.0	7609.4	3979.9	1481.3	637.2	313.0	231.0	218.0	206.8	205.0
45°	8863.4	8731.1	7764.1	3970.5	1481.3	586.9	285.1	225.5	206.8	191.9	188.2
47.5°	8978.9	8805.6	7957.9	4009.7	1451.5	551.5	240.4	236.6	195.6	177.0	173.3
50°	8999.4	9032.9	8295.1	4212.8	1386.2	506.8	188.2	232.9	188.2	160.2	156.5
52°	9133.6	8924.9	8397.6	4320.8	1317.3	473.3	158.4	199.4	180.7	149.1	145.3
52.5°	8949.1	9085.1	8421.8	4360.0	1324.8	450.9	152.8	195.6	177.0	149.1	139.7
55°	8742.3	8872.7	8323.1	4443.8	1214.8	354.0	119.2	141.6	160.2	130.4	124.8
57.5°	7598.3	7730.5	7233.1	4069.3	989.4	249.7	98.8	106.2	141.6	121.1	115.5
60°	6754.2	6659.2	6070.4	3394.8	702.4	139.7	78.3	82.0	154.6	111.8	109.9
62.5°	6172.9	5969.8	5073.6	2621.6	428.5	93.2	61.5	63.3	119.2	104.3	104.3
65°	4566.8	4339.5	3370.6	1585.6	210.5	65.2	46.6	50.3	74.5	89.4	89.4
67.5°	2606.7	2519.1	1628.5	715.5	87.6	41.0	35.4	39.1	57.8	72.7	68.9
70°	1198.1	1075.1	626.0	150.9	41.0	27.9	27.9	31.7	46.6	54.0	50.3
72.5°	350.3	331.7	152.8	24.2	16.8	16.8	18.6	24.2	35.4	41.0	37.3
75°	26.1	16.8	11.2	7.5	7.5	11.2	14.9	24.2	35.4	39.1	31.7
77.5°	1.9	3.7	1.9	1.9	5.6	11.2	16.8	29.8	46.6	48.4	35.4
80°	1.9	1.9	0.0	1.9	5.6	11.2	18.6	33.5	52.2	55.9	29.8
82.5°	0.0	0.0	0.0	1.9	7.5	14.9	22.4	35.4	48.4	59.6	31.7
85°	0.0	0.0	0.0	1.9	11.2	20.5	26.1	9.3	5.6	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°	4762.4	4762.4	4762.4	4762.4	4762.4	4762.4	4762.4	4762.4	4762.4	4762.4	4762.4
2.5°	4005.9	3957.5	3938.9	3955.6	3950.1	3944.5	4046.9	4024.6	4020.9	4054.4	4046.9
5°	3007.3	2921.5	3156.3	3061.3	3160.0	3219.7	3230.8	3236.4	3305.4	3232.7	3327.7
7.5°	2142.7	2165.1	2163.2	2226.6	2340.2	2440.8	2500.5	2453.9	2450.1	2440.8	2399.8
10°	1712.3	1673.2	1665.7	1650.8	1686.2	1771.9	1844.6	1786.8	1745.8	1801.7	1785.0
12.5°	1399.3	1345.3	1315.4	1255.8	1257.7	1315.4	1315.4	1315.4	1356.4	1388.1	1412.3
15°	1073.2	1028.5	1028.5	968.9	955.8	957.7	987.5	991.2	1056.5	1075.1	1084.4
17.5°	750.9	726.7	754.6	778.8	763.9	767.7	778.8	782.6	791.9	784.4	803.1
20°	577.6	573.9	581.3	624.2	655.9	674.5	661.4	642.8	631.6	605.6	605.6
22.5°	490.0	497.5	510.5	545.9	586.9	598.1	583.2	540.3	506.8	503.1	504.9
25°	436.0	443.4	463.9	486.3	508.7	527.3	512.4	480.7	462.1	445.3	445.3
27.5°	402.5	406.2	417.4	434.1	452.8	467.7	462.1	445.3	424.8	417.4	400.6
30°	376.4	382.0	395.0	398.7	415.5	423.0	413.6	409.9	396.9	387.6	382.0
32.5°	363.3	361.5	370.8	374.5	376.4	382.0	370.8	376.4	374.5	359.6	354.0
35°	273.9	288.8	313.0	333.5	339.1	346.6	344.7	337.2	316.7	300.0	279.5
37.5°	245.9	255.3	268.3	285.1	307.4	316.7	313.0	294.4	270.2	259.0	255.3
40°	227.3	232.9	244.1	255.3	277.6	294.4	281.3	264.6	245.9	236.6	231.0
42.5°	210.5	212.4	218.0	229.2	245.9	272.0	249.7	227.3	219.9	214.3	210.5
45°	191.9	191.9	199.4	205.0	223.6	247.8	225.5	205.0	201.2	197.5	195.6
47.5°	177.0	178.9	182.6	190.0	205.0	221.7	206.8	190.0	180.7	178.9	175.1
50°	158.4	160.2	167.7	175.1	193.8	203.1	193.8	175.1	165.8	160.2	160.2
52°	143.5	149.1	156.5	171.4	184.5	199.4	188.2	167.7	156.5	150.9	147.2
52.5°	141.6	145.3	152.8	169.6	184.5	197.5	186.3	165.8	152.8	149.1	145.3
55°	126.7	132.3	145.3	165.8	182.6	197.5	182.6	164.0	145.3	136.0	132.3
57.5°	121.1	124.8	141.6	167.7	180.7	197.5	182.6	164.0	145.3	128.6	124.8
60°	115.5	123.0	141.6	162.1	178.9	199.4	184.5	162.1	141.6	121.1	121.1
62.5°	109.9	115.5	139.7	158.4	171.4	191.9	177.0	158.4	136.0	115.5	113.7
65°	95.0	104.3	123.0	132.3	147.2	165.8	150.9	137.9	119.2	102.5	100.6
67.5°	72.7	76.4	91.3	102.5	111.8	128.6	121.1	104.3	91.3	78.3	78.3
70°	50.3	54.0	65.2	70.8	80.1	89.4	83.8	70.8	61.5	54.0	52.2
72.5°	35.4	37.3	41.0	44.7	48.4	52.2	50.3	41.0	35.4	33.5	31.7
75°	27.9	31.7	33.5	31.7	29.8	27.9	27.9	24.2	20.5	18.6	18.6
77.5°	27.9	29.8	27.9	24.2	20.5	18.6	16.8	14.9	11.2	9.3	11.2
80°	24.2	24.2	24.2	20.5	18.6	16.8	14.9	13.0	11.2	9.3	9.3
82.5°	26.1	26.1	24.2	20.5	20.5	16.8	16.8	14.9	13.0	9.3	9.3
85°	0.0	0.0	0.0	3.7	9.3	16.8	16.8	14.9	13.0	11.2	11.2
87.5°	0.0	0.0	0.0	0.0	1.9	3.7	7.5	9.3	11.2	11.2	11.2
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°	4762.4	4762.4	4762.4	4762.4	4762.4	4762.4	4762.4	4762.4	4762.4	4762.4	4762.4
2.5°	4114.0	4184.8	4319.0	4453.1	4535.1	4632.0	4807.1	4900.3	5021.4	5081.0	5198.4
5°	3314.7	3482.4	3542.0	3694.8	3858.8	4022.7	4283.6	4570.5	4809.0	4973.0	5185.4
7.5°	2418.5	2457.6	2688.6	2791.1	3059.4	3357.5	3713.4	4074.9	4376.7	4645.0	4807.1
10°	1812.9	1956.4	2101.7	2297.4	2513.5	2820.9	3161.9	3560.6	3951.9	4220.2	4425.2
12.5°	1457.0	1570.7	1764.5	1975.0	2241.5	2444.6	2787.4	3182.4	3689.2	3951.9	4222.1
15°	1103.0	1248.4	1468.2	1686.2	1967.6	2181.8	2528.4	3025.9	3678.0	4039.5	4272.4
17.5°	818.0	916.7	1114.2	1358.3	1645.2	1947.1	2414.7	3009.1	3802.9	4233.3	4473.6
20°	626.0	659.6	784.4	1002.4	1313.6	1708.6	2230.3	3081.8	4171.8	4704.7	4948.7
22.5°	506.8	521.7	570.1	721.1	1022.9	1499.9	2142.7	3132.1	4587.3	5269.2	5595.3
25°	441.6	437.9	469.5	534.7	799.3	1304.3	2030.9	3322.1	5095.9	5932.5	6225.1
27.5°	402.5	402.5	417.4	463.9	663.3	1177.6	1960.1	3458.2	5608.3	6515.7	6674.1
30°	382.0	385.7	428.5	443.4	551.5	1026.6	1842.7	3596.0	6098.4	6888.4	7106.4
32.5°	354.0	339.1	329.8	367.1	463.9	890.6	1725.4	3653.8	6495.2	7344.9	7531.2
35°	272.0	264.6	275.8	303.7	398.7	775.1	1594.9	3719.0	6951.7	7874.0	7911.3
37.5°	245.9	244.1	251.5	275.8	335.4	674.5	1501.8	3702.2	7300.1	8311.9	8211.3
40°	227.3	227.3	232.9	253.4	300.0	603.7	1404.9	3687.3	7637.4	8803.8	8509.4
42.5°	212.4	212.4	221.7	234.8	285.1	557.1	1332.2	3666.8	7920.6	9105.6	8684.5
45°	191.9	197.5	212.4	225.5	288.8	525.4	1278.2	3588.6	8017.5	9101.9	8600.7
47.5°	177.0	184.5	199.4	218.0	260.9	516.1	1240.9	3519.6	7983.9	8878.3	8338.0
50°	160.2	169.6	190.0	221.7	221.7	497.5	1201.8	3581.1	7959.7	8705.0	8086.4
52°	149.1	156.5	182.6	216.1	193.8	458.4	1177.6	3700.4	8058.5	8682.7	7974.6
52.5°	147.2	152.8	177.0	212.4	184.5	450.9	1160.8	3728.3	8090.2	8626.8	8051.0
55°	130.4	137.9	162.1	165.8	150.9	370.8	1106.8	3791.7	7933.6	8516.8	7978.4
57.5°	123.0	126.7	143.5	136.0	130.4	279.5	952.1	3692.9	7046.7	7564.7	7423.1
60°	113.7	117.4	134.2	106.2	109.9	195.6	715.5	3206.6	5658.6	6303.3	6558.6
62.5°	109.9	108.1	126.7	85.7	93.2	141.6	504.9	2606.7	4360.0	5189.1	5630.7
65°	96.9	95.0	91.3	72.7	80.1	109.9	301.8	1701.1	3072.5	3925.8	4168.0
67.5°	74.5	78.3	67.1	57.8	67.1	85.7	167.7	762.1	1611.7	2355.1	2550.8
70°	52.2	55.9	54.0	50.3	59.6	70.8	96.9	260.9	667.0	1237.2	1363.9
72.5°	31.7	39.1	41.0	42.9	52.2	61.5	68.9	83.8	177.0	437.9	544.1
75°	18.6	26.1	31.7	37.3	42.9	52.2	57.8	59.6	61.5	82.0	132.3
77.5°	13.0	18.6	27.9	35.4	42.9	52.2	61.5	65.2	61.5	57.8	61.5
80°	11.2	18.6	26.1	33.5	44.7	54.0	61.5	61.5	59.6	52.2	55.9
82.5°	11.2	18.6	27.9	35.4	42.9	52.2	59.6	61.5	55.9	52.2	54.0
85°	13.0	20.5	29.8	37.3	46.6	42.9	39.1	31.7	29.8	24.2	26.1
87.5°	13.0	18.6	18.6	20.5	22.4	22.4	22.4	20.5	16.8	14.9	14.9
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-SA3B-760-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4762.4	4762.4	4762.4	4762.4	4762.4	4762.4	4762.4	4762.4	4762.4	4762.4
2.5°	5204.0	5353.1	5347.5	5351.2	5328.8	5177.9	5105.3	4920.8	4973.0	4950.6
5°	5403.4	5550.6	5677.3	5662.4	5490.9	5286.0	4982.3	4695.3	4617.1	4501.6
7.5°	5204.0	5558.0	5675.4	5658.6	5405.2	5142.5	4658.1	4371.1	4235.1	4158.7
10°	4887.3	5297.2	5442.5	5472.3	5300.9	4902.2	4456.9	3996.6	3924.0	3791.7
12.5°	4706.5	5004.6	5094.1	5174.2	5114.6	4816.5	4304.1	3862.5	3761.9	3674.3
15°	4559.3	4736.3	4773.6	4864.9	4900.3	4740.1	4384.2	4007.8	3760.0	3750.7
17.5°	4695.3	4622.7	4486.7	4514.6	4626.4	4741.9	4591.0	4294.7	4054.4	4024.6
20°	4920.8	4600.3	4292.9	4361.8	4455.0	4809.0	4904.0	4695.3	4557.5	4481.1
22.5°	5179.8	4639.4	4231.4	4264.9	4441.9	4959.9	5410.8	5295.3	5038.2	4928.2
25°	5658.6	4747.5	4279.8	4302.2	4544.4	5170.5	5869.2	5954.9	5802.1	5779.7
27.5°	6126.3	5027.0	4386.0	4335.7	4596.6	5375.4	6146.8	6607.0	6338.7	6286.5
30°	6364.8	5254.3	4544.4	4458.7	4812.7	5500.3	6314.5	7031.8	6797.1	6772.8
32.5°	6730.0	5461.1	4667.4	4557.5	4933.8	5654.9	6627.5	7495.8	7268.5	7147.4
35°	6882.8	5686.6	4937.6	4809.0	5280.4	5871.0	6787.8	7909.4	7838.6	7721.2
37.5°	7177.2	5928.8	5256.2	5248.7	5699.6	6152.4	7076.6	8472.1	8459.1	8256.0
40°	7201.4	6193.4	5759.2	5994.0	6348.0	6642.4	7330.0	8628.6	8841.0	8703.2
42.5°	7238.7	6657.3	6629.4	6823.2	7126.9	7063.5	7339.3	8665.9	8990.1	8908.1
45°	7255.4	7121.3	7514.4	7872.2	7998.9	7615.0	7251.7	8595.1	9068.3	8863.4
47.5°	7121.3	7520.0	8229.9	8921.2	8958.4	7954.1	7214.4	8522.4	9114.9	8978.9
50°	7139.9	7769.7	8848.5	9467.1	9331.1	8254.1	7156.7	8477.7	9090.7	8999.4
52°	7095.2	7775.3	8936.1	9455.9	9360.9	8088.3	7057.9	8306.3	9068.3	9133.6
52.5°	7145.5	7741.7	8844.8	9463.4	9340.4	8170.3	7044.9	8401.3	9081.4	8949.1
55°	6972.2	7343.0	8310.0	8572.7	8554.1	7415.7	6644.3	8086.4	8740.4	8742.3
57.5°	6301.5	6364.8	6517.6	6512.0	6426.3	5830.1	5682.9	7436.2	7792.0	7598.3
60°	5552.4	4659.9	4248.2	4080.5	3985.5	3888.6	5027.0	6802.7	6836.2	6754.2
62.5°	4797.8	3230.8	2683.1	2636.5	2658.8	3012.8	4859.3	6551.1	6349.9	6172.9
65°	3871.8	2355.1	1948.9	1887.5	2105.5	2487.4	3933.3	5023.3	4714.0	4566.8
67.5°	2431.5	1717.9	1317.3	1201.8	1464.5	1712.3	2584.3	3156.3	2809.8	2606.7
70°	1442.1	959.6	596.2	534.7	601.8	913.0	1447.7	1574.4	1302.4	1198.1
72.5°	568.3	352.2	165.8	141.6	147.2	320.5	532.9	519.8	393.1	350.3
75°	152.8	106.2	57.8	46.6	39.1	59.6	85.7	55.9	20.5	26.1
77.5°	70.8	63.3	50.3	39.1	29.8	22.4	11.2	3.7	3.7	1.9
80°	61.5	54.0	46.6	39.1	29.8	18.6	9.3	1.9	1.9	1.9
82.5°	57.8	50.3	42.9	35.4	27.9	18.6	9.3	1.9	0.0	0.0
85°	24.2	31.7	35.4	33.5	29.8	18.6	9.3	1.9	0.0	0.0
87.5°	13.0	11.2	9.3	7.5	5.6	3.7	3.7	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)