

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: P528703

Luminaire Tested: **GALN-SA3D-740-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-740-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12767 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

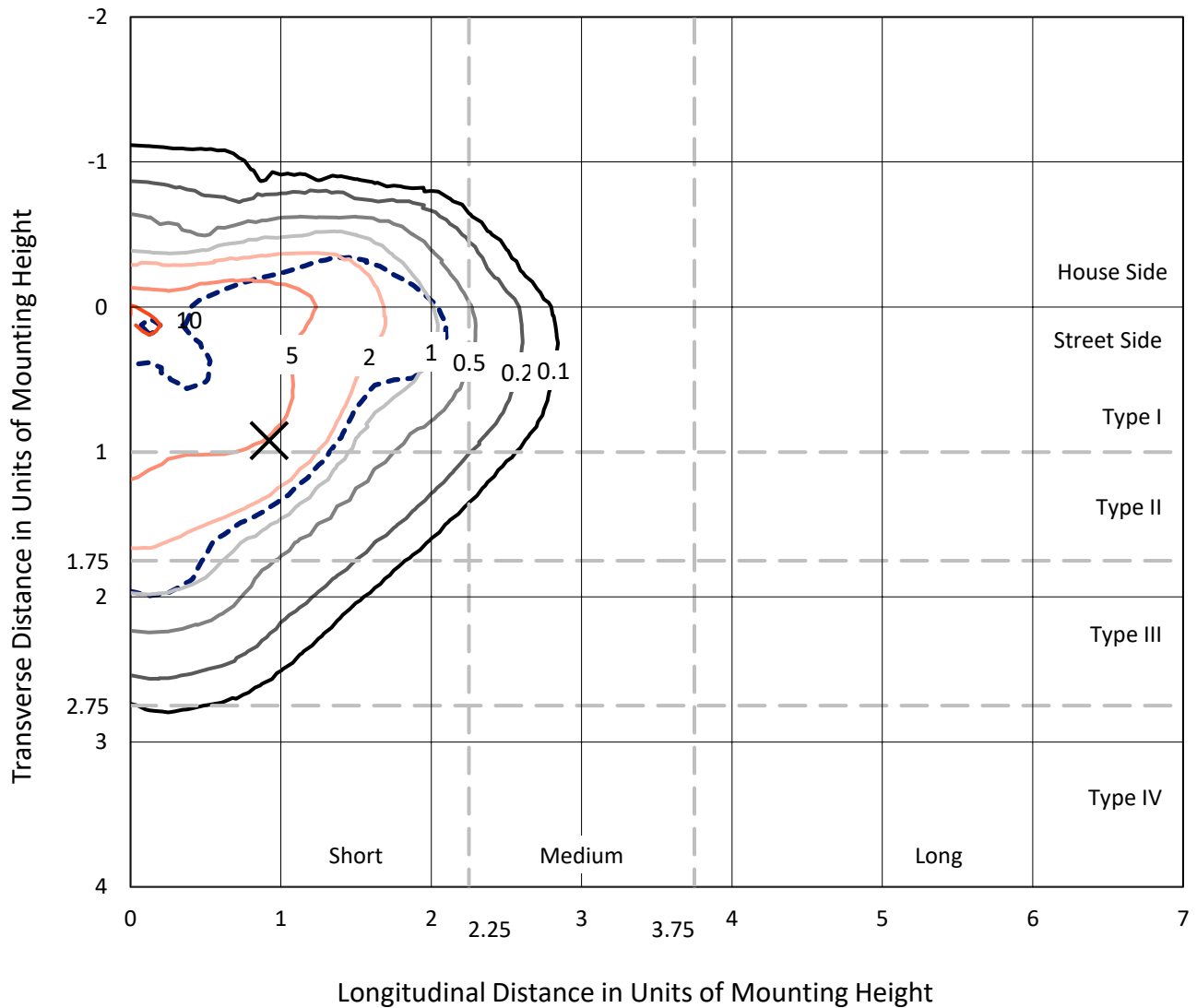
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

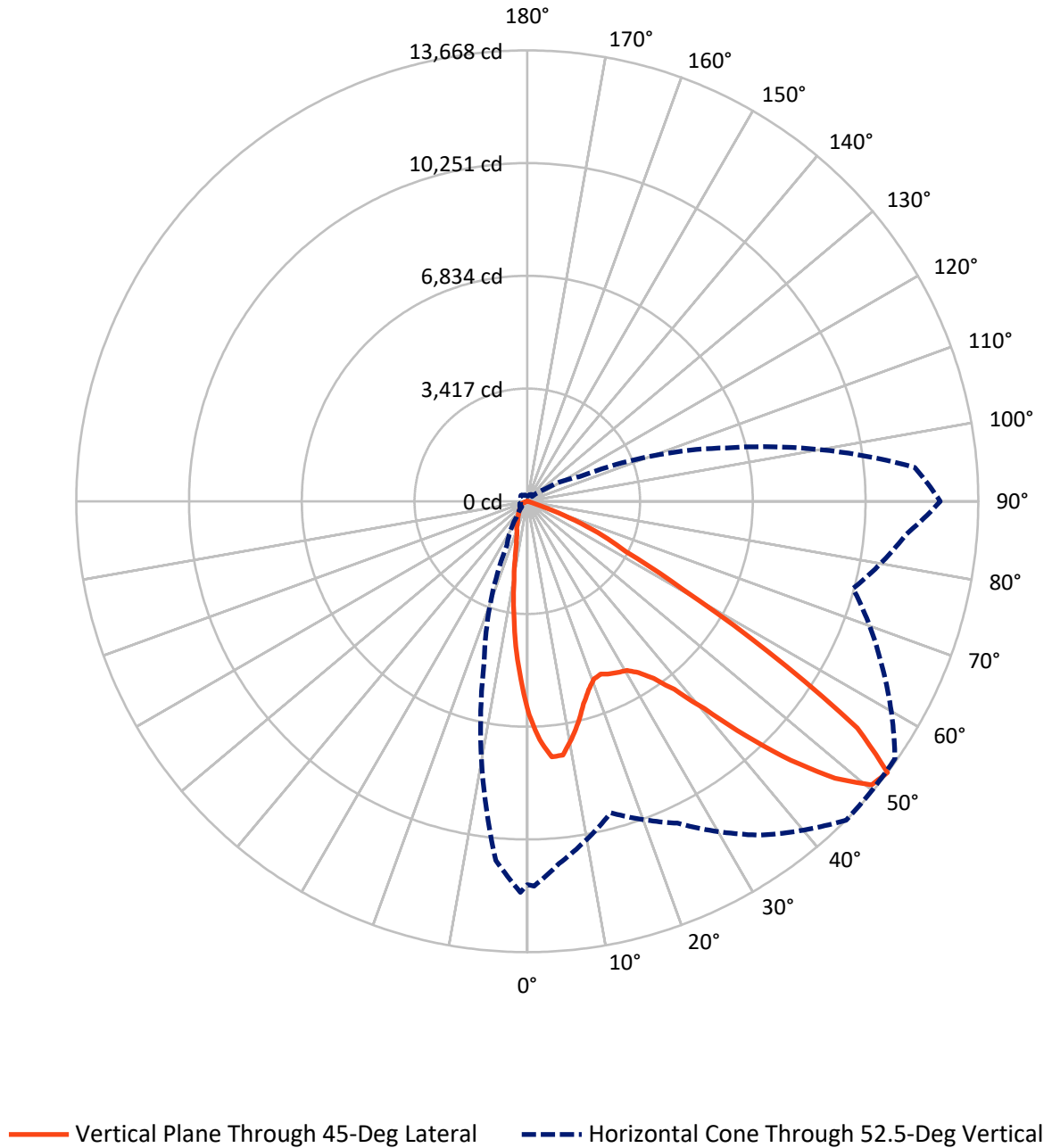
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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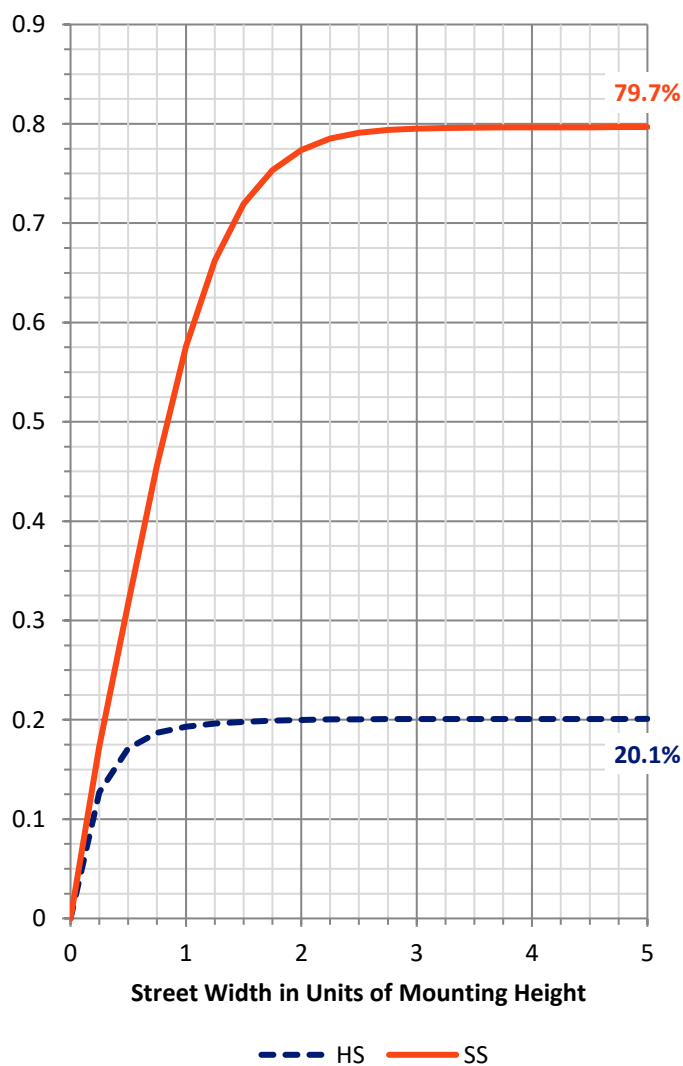
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2591.1	0.0	2591.1
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	10175.9	0.0	10175.9
	% Fixture	79.7	0.0	79.7
Total	Lumens	12767.0	0.0	12767.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.1	3.7
10°-20°	931.4	7.3
20°-30°	1417.5	11.1
30°-40°	2118.6	16.6
40°-50°	3017.1	23.6
50°-60°	3243.3	25.4
60°-70°	1437.2	11.3
70°-80°	116.3	0.9
80°-90°	13.5	0.1
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°	12767.0	100.0
0°-180°	12767.0	100.0

Coefficient of Utilization



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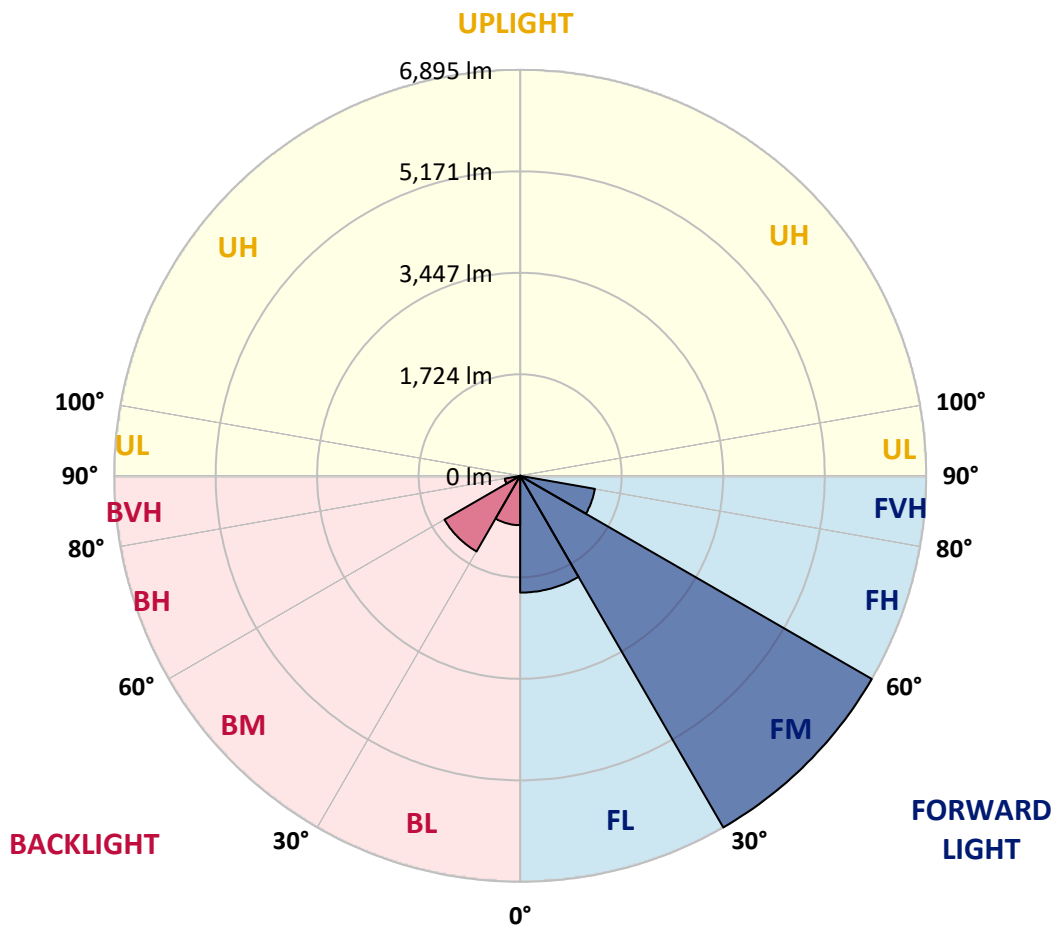
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1983.0	15.5			
FM (30°-60°)	6894.6	54.0			
FH (60°-80°)	1288.3	10.1			G1/1800
FVH (80°-90°)	10.0	0.1			G1/100
BL (0°-30°)	838.1	6.6	B2/1000		
BM (30°-60°)	1484.4	11.6	B2/2500		
BH (60°-80°)	265.1	2.1	B1/500		G1/500
BVH (80°-90°)	3.5	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6473.5	6473.5	6473.5	6473.5	6473.5	6473.5	6473.5	6473.5	6473.5	6473.5	6473.5
2.5°	6850.1	6870.2	6980.7	7118.8	7191.6	7357.3	7241.8	7272.0	7209.2	6988.2	6815.0
5°	6641.7	6639.2	6779.8	7121.3	7445.2	7774.2	7784.2	7608.5	7299.6	6960.6	6476.0
7.5°	6013.9	6111.9	6257.5	6802.4	7402.5	7648.6	7766.6	7560.7	7086.2	6601.5	6076.7
10°	5539.4	5589.6	5835.7	6493.6	6933.0	7261.9	7334.7	7216.7	6852.6	6247.5	5659.9
12.5°	5265.7	5290.8	5579.5	6132.0	6596.5	6840.1	6875.2	6930.5	6669.3	6101.8	5396.2
15°	5268.2	5288.3	5677.5	6139.5	6322.8	6257.5	6373.0	6370.5	6483.5	6074.2	5617.2
17.5°	5647.3	5669.9	6021.5	6250.0	6169.6	6016.5	6008.9	6124.4	6363.0	6418.2	5951.2
20°	6300.2	6352.9	6611.6	6599.0	6147.0	5838.2	5752.8	5840.7	6395.6	6709.5	6624.1
22.5°	7179.1	7251.9	7432.7	7086.2	6250.0	5717.6	5690.0	5860.8	6611.6	7359.9	7387.5
25°	8198.5	8321.6	8409.5	7965.0	6616.6	5926.1	5795.5	6089.3	6902.9	8065.5	8359.3
27.5°	8874.0	9002.1	8982.0	8346.7	6862.7	5981.3	5870.8	6144.5	7156.5	8233.7	8866.5
30°	9401.3	9479.2	9619.8	8552.6	7108.8	6137.0	5948.7	6378.0	7239.3	8525.0	9479.2
32.5°	10016.5	10069.3	10079.3	8916.7	7487.9	6332.8	6189.7	6669.3	7605.9	8803.7	10021.6
35°	10636.8	10714.6	10551.4	9366.2	7721.4	6696.9	6591.5	7174.0	7899.7	9092.5	10619.2
37.5°	11309.7	11349.9	10973.2	9552.0	8055.4	7289.6	7231.8	7718.9	8409.5	9614.8	11282.1
40°	11874.7	11912.4	11422.7	9780.5	8407.0	8118.2	8266.3	8758.5	9102.5	9953.8	11613.6
42.5°	12188.6	12276.5	11573.4	9655.0	9112.6	9057.3	9715.2	9888.5	9906.1	10049.2	11909.9
45°	12274.0	12233.8	11324.8	9757.9	9730.3	10601.6	11199.2	11427.7	10704.6	10225.0	11985.2
47.5°	11879.7	11932.5	10958.2	9667.5	10541.3	11771.8	12545.2	12969.5	11299.7	10071.8	11799.4
50°	11560.8	11493.0	10840.2	9602.2	10759.8	12324.2	13516.9	13612.4	11847.1	10260.1	11596.0
52.5°	11623.6	11666.3	11028.5	9775.5	10764.8	12356.8	13667.6	13602.3	11864.7	10217.4	11523.2
55°	11756.7	11568.4	10948.1	9393.8	10044.2	11445.3	12130.8	12030.4	10950.6	9762.9	11344.9
57.5°	10144.6	10435.9	10066.8	8386.9	8243.7	8622.9	8610.4	8919.2	8168.4	8401.9	10327.9
60°	8233.7	8283.9	8422.0	7174.0	5705.1	5574.5	5393.7	5197.9	5496.7	7184.1	9393.8
62.5°	7241.8	7181.6	7673.7	6526.2	4027.7	3372.3	3342.2	3462.7	4241.1	6852.6	8811.2
65°	5263.1	5338.5	5695.0	5064.8	3023.3	2573.8	2528.6	2885.2	3432.6	5491.6	6724.6
67.5°	3214.1	3359.8	3392.4	3123.7	2051.5	1629.7	1564.4	1888.3	2478.4	3553.1	3942.3
70°	1484.0	1659.8	1825.5	1705.0	1187.7	670.4	632.8	793.5	1250.5	2044.0	2091.7
72.5°	449.5	452.0	632.8	660.4	384.2	150.7	133.1	175.8	424.4	675.5	710.6
75°	32.6	35.2	85.4	97.9	72.8	37.7	40.2	47.7	90.4	150.7	113.0
77.5°	2.5	2.5	2.5	12.6	22.6	25.1	32.6	37.7	47.7	55.2	50.2
80°	2.5	0.0	2.5	10.0	17.6	25.1	30.1	35.2	37.7	42.7	37.7
82.5°	0.0	0.0	0.0	7.5	17.6	25.1	27.6	37.7	42.7	50.2	42.7
85°	0.0	0.0	0.0	7.5	17.6	27.6	25.1	12.6	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6473.5	6473.5	6473.5	6473.5	6473.5	6473.5	6473.5	6473.5	6473.5	6473.5	6473.5
2.5°	6845.1	6747.2	6523.7	6410.7	6144.5	6106.9	5845.7	5803.0	5715.1	5667.4	5551.9
5°	6262.5	6144.5	5780.4	5474.1	5117.5	4868.9	4678.1	4504.8	4404.4	4311.5	4354.1
7.5°	5787.9	5443.9	5039.7	4527.4	4115.6	3849.4	3558.1	3319.6	3179.0	3083.6	3106.2
10°	5290.8	5067.3	4504.8	3929.8	3432.6	3244.3	3015.8	2832.5	2634.1	2463.3	2383.0
12.5°	5135.1	4803.6	4098.0	3512.9	3136.3	2953.0	2691.8	2480.9	2227.3	2018.9	1946.1
15°	5162.7	4843.8	3987.5	3362.3	2917.8	2601.4	2290.1	2028.9	1750.2	1604.6	1529.2
17.5°	5612.2	5059.7	4060.4	3204.1	2614.0	2174.6	1790.4	1458.9	1250.5	1099.8	1067.2
20°	6164.6	5526.8	4216.0	3088.6	2365.4	1730.1	1308.3	1022.0	848.7	823.6	816.1
22.5°	6973.2	6290.2	4550.0	3010.7	2061.6	1348.4	896.4	743.3	695.6	690.5	693.0
25°	8103.1	7246.9	4914.1	2945.5	1833.1	1039.6	733.2	630.3	615.2	607.7	620.2
27.5°	8592.8	7824.4	5107.5	2804.8	1624.6	936.6	723.2	625.2	582.6	570.0	577.5
30°	9197.9	8208.6	5411.3	2563.8	1318.3	770.9	675.5	680.5	660.4	597.6	577.5
32.5°	10001.5	8688.2	5564.5	2393.0	1177.7	637.8	494.7	454.5	507.2	517.3	534.9
35°	10516.2	9175.3	5642.3	2292.6	1104.9	544.9	419.3	381.7	369.1	371.6	381.7
37.5°	11472.9	9833.2	5740.2	2187.1	1049.6	474.6	379.2	344.0	326.4	326.4	336.5
40°	12045.5	10355.5	5873.3	2129.4	994.4	431.9	344.0	313.9	298.8	298.8	303.8
42.5°	12188.6	10614.2	5828.1	2109.3	931.6	421.9	313.9	291.3	273.7	271.2	268.7
45°	12444.7	11008.4	5835.7	2086.7	866.3	384.2	296.3	271.2	246.1	243.6	241.1
47.5°	12726.0	11292.1	5850.7	1998.8	803.5	321.4	308.9	251.1	221.0	215.9	215.9
50°	12484.9	11518.1	5981.3	1910.9	723.2	261.1	303.8	236.0	195.9	188.3	190.8
52.5°	12515.0	11784.3	6257.5	1787.9	622.7	208.4	246.1	223.5	178.3	165.7	168.2
55°	12032.9	11503.1	6295.2	1657.3	487.1	160.7	188.3	195.9	150.7	145.6	145.6
57.5°	10358.0	9740.3	5554.4	1343.4	321.4	133.1	135.6	170.8	130.6	125.6	128.1
60°	8864.0	7819.4	4469.7	886.4	200.9	105.5	97.9	173.3	115.5	113.0	120.5
62.5°	8080.5	6425.8	3389.9	549.9	138.1	80.4	67.8	140.6	100.4	100.4	110.5
65°	5838.2	4316.5	1971.2	288.8	97.9	62.8	50.2	80.4	82.9	85.4	90.4
67.5°	3615.9	2179.6	831.2	140.6	65.3	42.7	32.6	50.2	55.2	55.2	60.3
70°	1785.3	868.8	276.2	80.4	50.2	35.2	22.6	27.6	27.6	25.1	27.6
72.5°	552.4	261.1	70.3	50.2	35.2	22.6	12.6	10.0	5.0	0.0	2.5
75°	62.8	50.2	45.2	35.2	22.6	10.0	2.5	0.0	0.0	0.0	0.0
77.5°	37.7	42.7	42.7	35.2	22.6	7.5	0.0	0.0	0.0	0.0	0.0
80°	30.1	32.6	35.2	32.6	20.1	10.0	0.0	0.0	0.0	0.0	0.0
82.5°	37.7	42.7	47.7	42.7	27.6	12.6	5.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	7.5	2.5	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°	6473.5	6473.5	6473.5	6473.5	6473.5	6473.5	6473.5	6473.5	6473.5	6473.5	6473.5
2.5°	5504.2	5449.0	5526.8	5411.3	5408.8	5411.3	5378.6	5348.5	5396.2	5524.3	5536.8
5°	4201.0	4319.0	4356.7	4479.7	4411.9	4311.5	4331.5	4263.7	4429.5	4502.3	4444.5
7.5°	3058.4	3050.9	3304.5	3319.6	3352.2	3354.8	3349.7	3216.6	3081.0	3111.2	3201.6
10°	2372.9	2244.9	2367.9	2355.4	2435.7	2413.1	2445.8	2302.6	2350.3	2350.3	2408.1
12.5°	1933.5	1797.9	1775.3	1742.7	1775.3	1787.9	1800.4	1772.8	1853.1	1890.8	1931.0
15°	1476.5	1401.2	1381.1	1318.3	1328.3	1363.5	1393.6	1406.2	1381.1	1438.8	1443.8
17.5°	1072.2	1069.7	1082.3	1079.7	1069.7	1062.2	1059.7	1027.0	1017.0	1022.0	1042.1
20°	813.6	833.7	876.4	919.0	941.6	914.0	876.4	821.1	798.5	803.5	806.0
22.5°	695.6	725.7	783.4	831.2	853.8	803.5	735.7	688.0	678.0	675.5	673.0
25°	630.3	665.4	708.1	723.2	720.7	690.5	640.3	620.2	615.2	610.2	587.6
27.5°	595.1	607.7	615.2	632.8	640.3	620.2	607.7	577.5	572.5	572.5	557.5
30°	575.0	567.5	577.5	565.0	575.0	560.0	562.5	562.5	549.9	554.9	554.9
32.5°	534.9	537.4	537.4	512.3	519.8	502.2	519.8	534.9	537.4	539.9	560.0
35°	391.7	436.9	459.5	459.5	467.1	454.5	452.0	434.4	411.8	389.2	379.2
37.5°	344.0	361.6	391.7	409.3	421.9	411.8	389.2	361.6	349.0	339.0	328.9
40°	306.3	321.4	341.5	361.6	386.7	374.1	339.0	326.4	311.4	311.4	301.3
42.5°	276.2	283.7	296.3	326.4	354.1	328.9	303.8	293.8	286.3	283.7	281.2
45°	248.6	251.1	263.7	288.8	321.4	296.3	271.2	258.6	261.1	263.7	261.1
47.5°	223.5	228.5	236.0	266.2	286.3	273.7	246.1	238.5	238.5	238.5	241.1
50°	193.4	205.9	221.0	246.1	261.1	253.6	231.0	221.0	215.9	215.9	218.5
52.5°	173.3	183.3	203.4	233.5	253.6	241.1	218.5	203.4	193.4	190.8	195.9
55°	150.7	168.2	200.9	223.5	251.1	238.5	213.4	195.9	178.3	175.8	175.8
57.5°	135.6	163.2	193.4	221.0	243.6	233.5	213.4	190.8	168.2	165.7	165.7
60°	128.1	158.2	188.3	213.4	243.6	228.5	210.9	185.8	160.7	160.7	158.2
62.5°	120.5	148.2	178.3	203.4	233.5	221.0	203.4	178.3	153.2	153.2	148.2
65°	100.4	128.1	148.2	170.8	203.4	190.8	173.3	155.7	135.6	130.6	133.1
67.5°	70.3	87.9	108.0	130.6	150.7	145.6	138.1	125.6	108.0	105.5	103.0
70°	35.2	47.7	65.3	87.9	105.5	100.4	95.4	85.4	75.3	72.8	72.8
72.5°	5.0	15.1	27.6	40.2	55.2	57.8	55.2	52.7	50.2	47.7	50.2
75°	0.0	0.0	0.0	10.0	22.6	27.6	32.6	37.7	37.7	32.6	40.2
77.5°	0.0	0.0	0.0	0.0	2.5	12.6	25.1	32.6	40.2	35.2	47.7
80°	0.0	0.0	0.0	0.0	2.5	15.1	25.1	35.2	40.2	35.2	50.2
82.5°	0.0	0.0	0.0	0.0	2.5	17.6	25.1	32.6	37.7	35.2	45.2
85°	0.0	0.0	0.0	0.0	7.5	15.1	10.0	5.0	2.5	2.5	7.5
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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CATALOG NUMBER: GALN-SA3D-740-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6473.5	6473.5	6473.5	6473.5	6473.5	6473.5	6473.5	6473.5	6473.5	6473.5
2.5°	5607.2	5785.4	5976.3	6049.1	6275.1	6445.8	6561.3	6809.9	6847.6	6850.1
5°	4504.8	4595.2	4921.6	5074.8	5411.3	5672.4	5951.2	6352.9	6621.6	6641.7
7.5°	3201.6	3452.7	3590.8	3990.0	4404.4	4813.7	5228.0	5695.0	6006.4	6013.9
10°	2576.3	2739.5	2985.6	3284.4	3633.5	4050.3	4602.7	5145.1	5461.5	5539.4
12.5°	2074.1	2360.4	2641.6	2950.5	3216.6	3530.5	4125.6	4848.8	5110.0	5265.7
15°	1597.0	1858.2	2189.6	2551.2	2852.5	3271.9	3949.9	4776.0	5215.4	5268.2
17.5°	1177.7	1411.2	1717.6	2059.1	2511.0	3106.2	3980.0	5145.1	5559.4	5647.3
20°	846.2	981.8	1222.9	1619.6	2194.6	2912.8	4010.1	5519.3	6149.5	6300.2
22.5°	670.4	725.7	883.9	1235.4	1840.6	2709.4	4223.6	6234.9	6960.6	7179.1
25°	582.6	612.7	688.0	974.3	1617.1	2689.3	4565.1	7093.7	8040.4	8198.5
27.5°	562.5	567.5	632.8	893.9	1496.6	2556.2	4695.6	7703.9	8713.3	8874.0
30°	592.6	673.0	678.0	755.8	1273.1	2292.6	4763.4	8294.0	9283.3	9401.3
32.5°	512.3	487.1	504.7	585.1	1119.9	2139.4	4891.5	8808.7	9933.7	10016.5
35°	356.6	374.1	414.3	507.2	979.3	1978.7	4924.2	9376.2	10551.4	10636.8
37.5°	328.9	339.0	371.6	431.9	861.3	1888.3	4879.0	9790.5	11191.7	11309.7
40°	306.3	318.9	336.5	391.7	773.4	1787.9	4816.2	10164.7	11583.4	11874.7
42.5°	288.8	298.8	313.9	374.1	698.1	1687.4	4728.3	10692.0	11935.0	12188.6
45°	268.7	283.7	301.3	364.1	655.4	1619.6	4663.0	10659.4	12138.4	12274.0
47.5°	248.6	273.7	293.8	339.0	642.8	1587.0	4690.6	10536.3	11972.6	11879.7
50°	228.5	261.1	296.3	281.2	612.7	1521.7	4723.3	10704.6	11578.4	11560.8
52.5°	210.9	248.6	276.2	231.0	544.9	1458.9	5039.7	10925.5	11857.1	11623.6
55°	185.8	223.5	221.0	185.8	441.9	1411.2	5288.3	10930.6	11668.8	11756.7
57.5°	168.2	198.4	173.3	155.7	326.4	1180.2	4884.0	9165.3	9988.9	10144.6
60°	155.7	193.4	130.6	123.0	213.4	851.2	4263.7	7098.7	7939.9	8233.7
62.5°	143.1	183.3	103.0	100.4	148.2	605.2	3505.4	5941.1	6842.6	7241.8
65°	125.6	130.6	82.9	77.8	105.5	326.4	2134.4	4090.5	5115.0	5263.1
67.5°	103.0	100.4	67.8	62.8	70.3	158.2	941.6	2049.0	2965.5	3214.1
70°	82.9	82.9	57.8	50.2	50.2	72.8	246.1	816.1	1340.9	1484.0
72.5°	60.3	62.8	45.2	40.2	37.7	35.2	40.2	163.2	351.5	449.5
75°	52.7	55.2	45.2	35.2	27.6	22.6	17.6	15.1	20.1	32.6
77.5°	57.8	57.8	47.7	32.6	25.1	17.6	10.0	5.0	5.0	2.5
80°	72.8	75.3	62.8	42.7	30.1	20.1	12.6	5.0	2.5	2.5
82.5°	77.8	85.4	70.3	52.7	37.7	22.6	12.6	2.5	0.0	0.0
85°	20.1	32.6	55.2	47.7	37.7	22.6	12.6	2.5	0.0	0.0
87.5°	0.0	2.5	7.5	7.5	10.0	10.0	7.5	2.5	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)