

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: P528677

Luminaire Tested: **GALN-SA3D-735-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528677
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-735-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 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: 11893 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

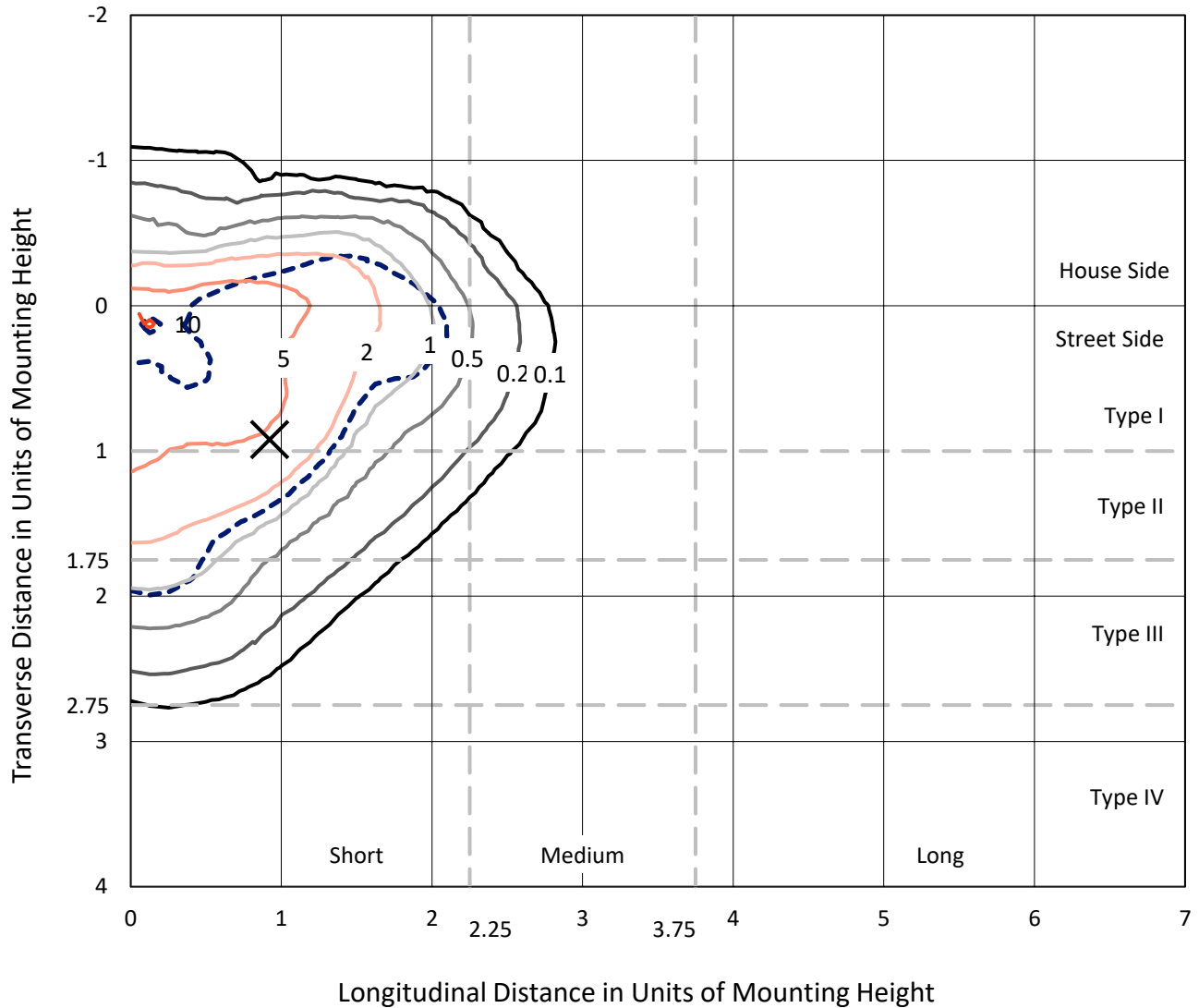
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

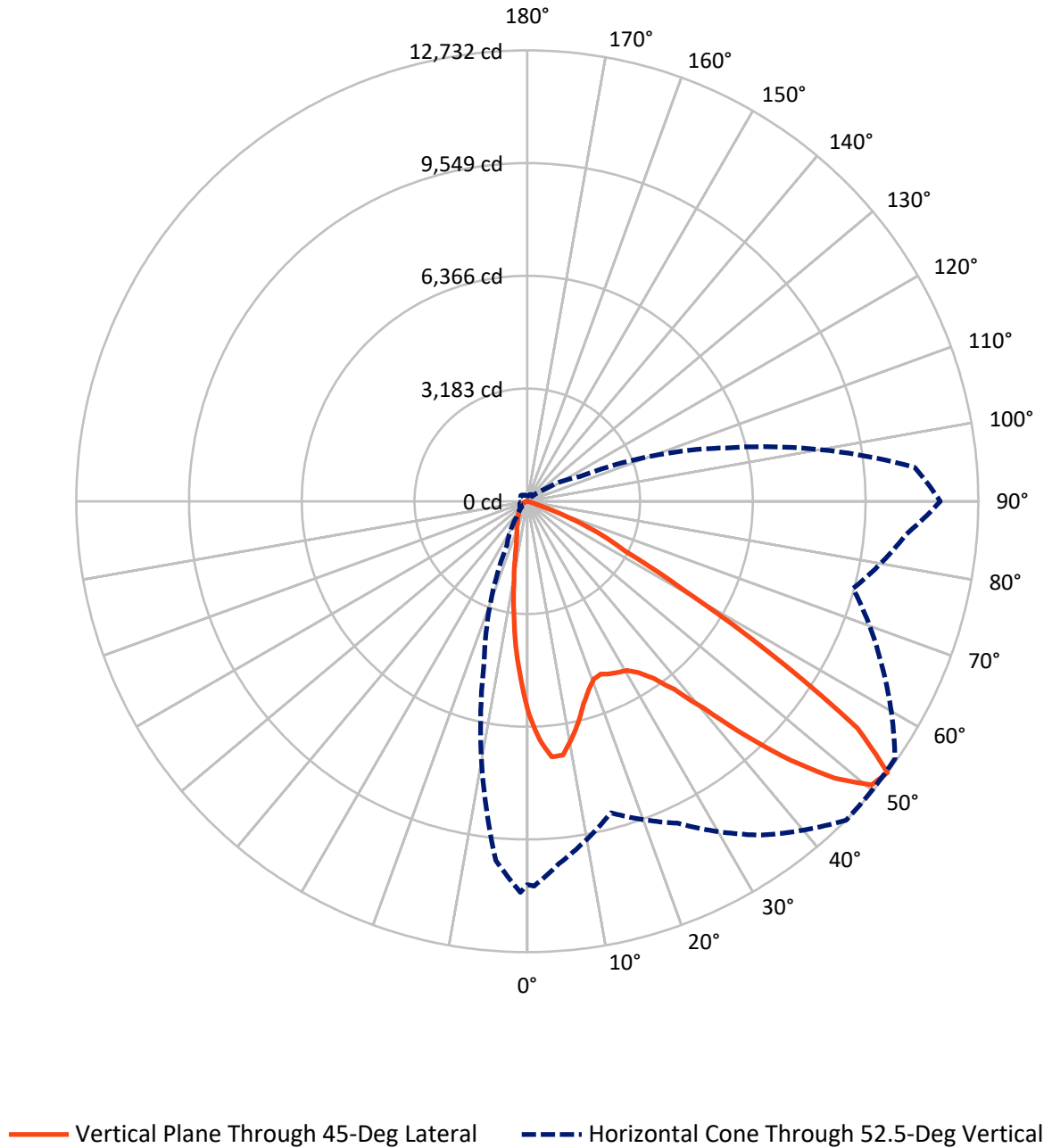
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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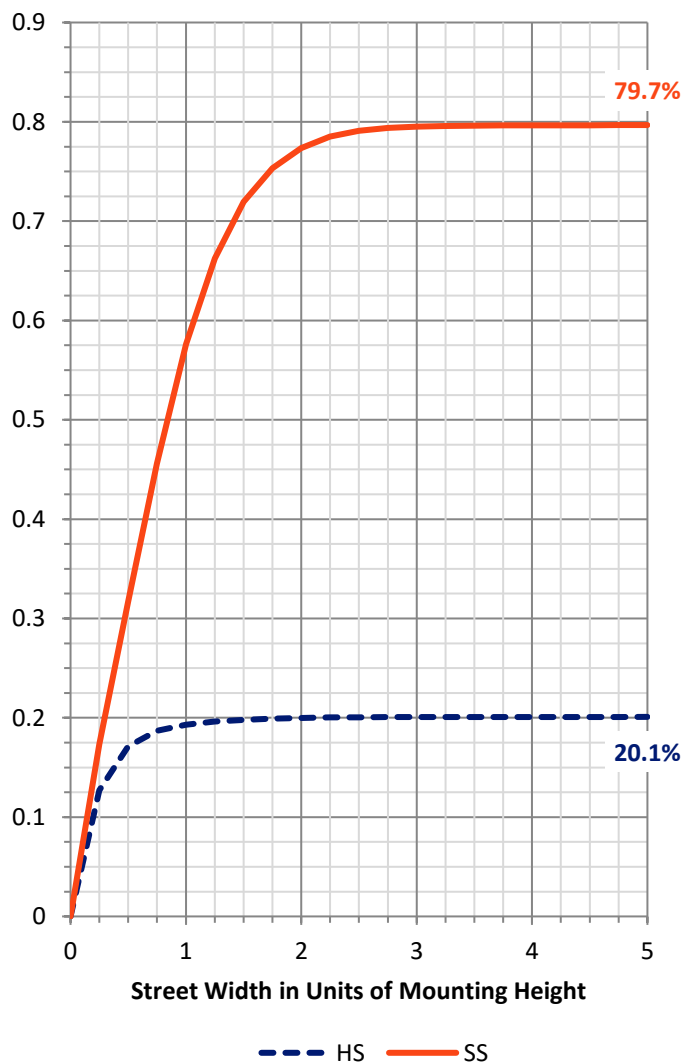
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2413.7	0.0	2413.7
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	9479.3	0.0	9479.3
	% Fixture	79.7	0.0	79.7
Total	Lumens	11893.0	0.0	11893.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.8	3.7
10°-20°	867.7	7.3
20°-30°	1320.5	11.1
30°-40°	1973.6	16.6
40°-50°	2810.5	23.6
50°-60°	3021.2	25.4
60°-70°	1338.8	11.3
70°-80°	108.3	0.9
80°-90°	12.6	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°	11893.0	100.0
0°-180°	11893.0	100.0

Coefficient of Utilization



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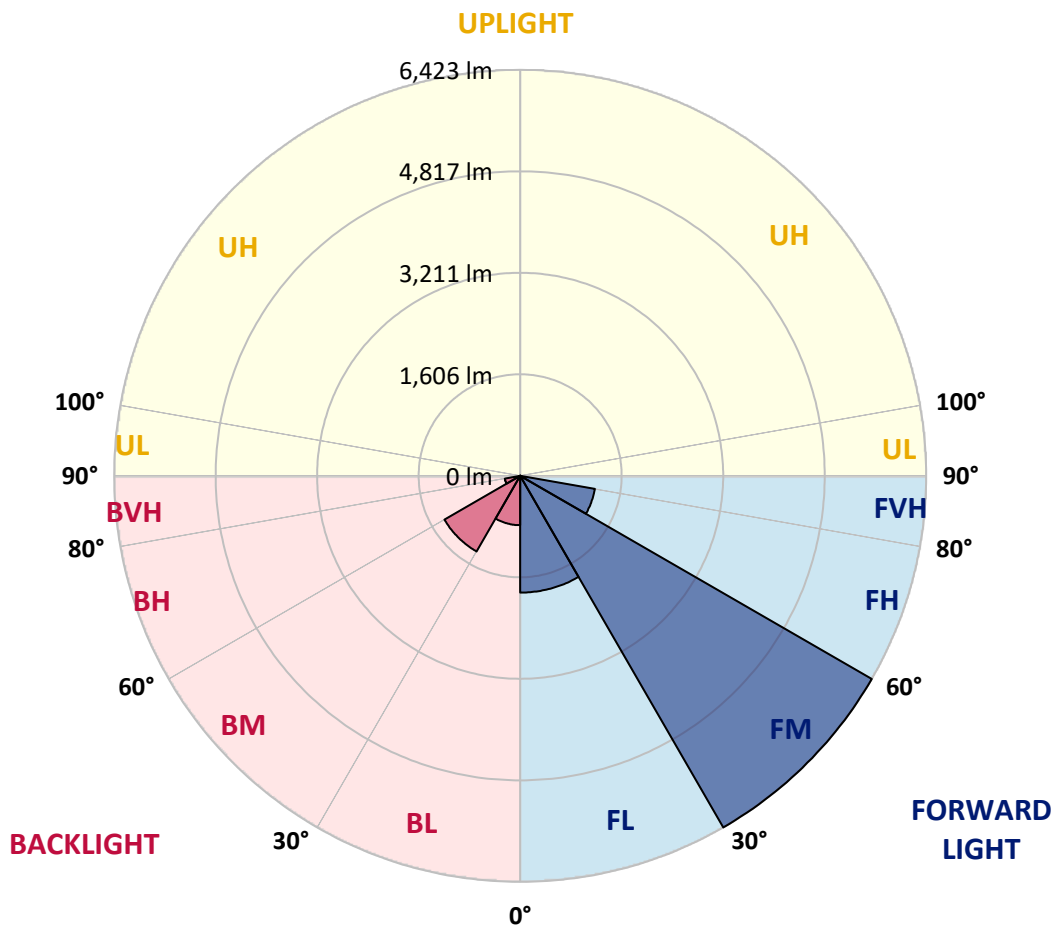
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1847.2	15.5			
FM (30°-60°)	6422.6	54.0			
FH (60°-80°)	1200.1	10.1			G1/1800
FVH (80°-90°)	9.4	0.1			G0/10
BL (0°-30°)	780.7	6.6	B2/1000		
BM (30°-60°)	1382.8	11.6	B2/2500		
BH (60°-80°)	247.0	2.1	B1/500		G1/500
BVH (80°-90°)	3.3	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°	6030.3	6030.3	6030.3	6030.3	6030.3	6030.3	6030.3	6030.3	6030.3	6030.3	6030.3
2.5°	6381.2	6399.9	6502.8	6631.5	6699.3	6853.7	6746.1	6774.2	6715.7	6509.8	6348.4
5°	6187.0	6184.7	6315.7	6633.8	6935.6	7242.0	7251.3	7087.6	6799.9	6484.1	6032.6
7.5°	5602.2	5693.5	5829.1	6336.7	6895.8	7125.0	7235.0	7043.2	6601.1	6149.6	5660.7
10°	5160.1	5206.9	5436.2	6049.0	6458.4	6764.8	6832.6	6722.7	6383.5	5819.8	5272.4
12.5°	4905.2	4928.6	5197.6	5712.2	6144.9	6371.8	6404.6	6456.0	6212.8	5684.1	5026.8
15°	4907.5	4926.2	5288.8	5719.2	5890.0	5829.1	5936.7	5934.4	6039.7	5658.4	5232.7
17.5°	5260.7	5281.8	5609.3	5822.1	5747.3	5604.6	5597.6	5705.2	5927.4	5978.8	5543.8
20°	5868.9	5918.0	6159.0	6147.3	5726.2	5438.5	5359.0	5440.8	5957.8	6250.2	6170.7
22.5°	6687.6	6755.4	6923.9	6601.1	5822.1	5326.2	5300.5	5459.6	6159.0	6856.0	6881.8
25°	7637.3	7751.9	7833.8	7419.8	6163.6	5520.4	5398.7	5672.4	6430.3	7513.3	7787.0
27.5°	8266.5	8385.8	8367.1	7775.3	6392.9	5571.8	5468.9	5723.9	6666.5	7670.0	8259.5
30°	8757.7	8830.3	8961.2	7967.1	6622.1	5716.9	5541.4	5941.4	6743.7	7941.4	8830.3
32.5°	9330.8	9380.0	9389.3	8306.3	6975.3	5899.3	5766.0	6212.8	7085.3	8201.0	9335.5
35°	9908.6	9981.1	9829.1	8725.0	7192.9	6238.5	6140.2	6682.9	7358.9	8470.0	9892.2
37.5°	10535.5	10572.9	10222.0	8898.1	7504.0	6790.5	6736.7	7190.5	7833.8	8956.6	10509.8
40°	11061.8	11096.9	10640.7	9111.0	7831.4	7562.4	7700.5	8158.9	8479.4	9272.4	10818.5
42.5°	11354.2	11436.1	10781.1	8994.0	8488.7	8437.3	9050.1	9211.5	9227.9	9361.2	11094.5
45°	11433.7	11396.3	10549.5	9089.9	9064.2	9875.9	10432.6	10645.4	9971.8	9525.0	11164.7
47.5°	11066.5	11115.6	10208.0	9005.7	9819.7	10965.9	11686.3	12081.7	10526.1	9382.3	10991.6
50°	10769.4	10706.2	10098.1	8944.9	10023.2	11480.5	12591.6	12680.5	11036.1	9557.7	10802.2
52.5°	10827.9	10867.6	10273.5	9106.3	10027.9	11510.9	12731.9	12671.1	11052.4	9518.0	10734.3
55°	10951.9	10776.4	10198.7	8750.7	9356.6	10661.8	11300.4	11206.8	10201.0	9094.6	10568.2
57.5°	9450.1	9721.5	9377.6	7812.7	7679.4	8032.6	8020.9	8308.6	7609.2	7826.8	9620.9
60°	7670.0	7716.8	7845.5	6682.9	5314.5	5192.9	5024.5	4842.0	5120.4	6692.3	8750.7
62.5°	6746.1	6689.9	7148.4	6079.4	3752.0	3141.5	3113.4	3225.7	3950.8	6383.5	8208.0
65°	4902.8	4973.0	5305.2	4718.0	2816.3	2397.6	2355.5	2687.7	3197.6	5115.7	6264.2
67.5°	2994.1	3129.8	3160.2	2909.9	1911.1	1518.1	1457.3	1759.0	2308.7	3309.9	3672.5
70°	1382.4	1546.2	1700.6	1588.3	1106.4	624.6	589.5	739.2	1164.9	1904.1	1948.5
72.5°	418.7	421.0	589.5	615.2	357.9	140.3	124.0	163.7	395.3	629.2	662.0
75°	30.4	32.7	79.5	91.2	67.8	35.1	37.4	44.4	84.2	140.3	105.3
77.5°	2.3	2.3	2.3	11.7	21.1	23.4	30.4	35.1	44.4	51.5	46.8
80°	2.3	0.0	2.3	9.4	16.4	23.4	28.1	32.7	35.1	39.8	35.1
82.5°	0.0	0.0	0.0	7.0	16.4	23.4	25.7	35.1	39.8	46.8	39.8
85°	0.0	0.0	0.0	7.0	16.4	25.7	23.4	11.7	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°	6030.3	6030.3	6030.3	6030.3	6030.3	6030.3	6030.3	6030.3	6030.3	6030.3	6030.3
2.5°	6376.5	6285.3	6077.1	5971.8	5723.9	5688.8	5445.5	5405.8	5323.9	5279.4	5171.8
5°	5833.8	5723.9	5384.7	5099.3	4767.2	4535.6	4357.8	4196.4	4102.9	4016.3	4056.1
7.5°	5391.7	5071.3	4694.7	4217.5	3833.9	3585.9	3314.6	3092.3	2961.4	2872.5	2893.5
10°	4928.6	4720.4	4196.4	3660.8	3197.6	3022.2	2809.3	2638.6	2453.8	2294.7	2219.8
12.5°	4783.5	4474.8	3817.5	3272.5	2921.6	2750.8	2507.6	2311.1	2074.8	1880.7	1812.8
15°	4809.3	4512.2	3714.6	3132.1	2718.1	2423.3	2133.3	1890.0	1630.4	1494.7	1424.5
17.5°	5228.0	4713.4	3782.4	2984.7	2435.0	2025.7	1667.8	1359.0	1164.9	1024.5	994.1
20°	5742.6	5148.4	3927.4	2877.1	2203.5	1611.7	1218.7	952.0	790.6	767.2	760.2
22.5°	6495.8	5859.5	4238.5	2804.6	1920.4	1256.1	835.1	692.4	647.9	643.3	645.6
25°	7548.4	6750.8	4577.7	2743.8	1707.6	968.4	683.0	587.1	573.1	566.1	577.8
27.5°	8004.5	7288.8	4757.8	2612.8	1513.4	872.5	673.7	582.4	542.7	531.0	538.0
30°	8568.3	7646.6	5040.8	2388.3	1228.0	718.1	629.2	633.9	615.2	556.7	538.0
32.5°	9316.8	8093.4	5183.5	2229.2	1097.1	594.1	460.8	423.4	472.5	481.9	498.2
35°	9796.3	8547.2	5256.0	2135.6	1029.2	507.6	390.6	355.5	343.9	346.2	355.5
37.5°	10687.5	9160.1	5347.3	2037.4	977.8	442.1	353.2	320.5	304.1	304.1	313.4
40°	11220.9	9646.6	5471.2	1983.6	926.3	402.3	320.5	292.4	278.4	278.4	283.0
42.5°	11354.2	9887.5	5429.1	1964.9	867.8	393.0	292.4	271.3	255.0	252.6	250.3
45°	11592.8	10254.8	5436.2	1943.8	807.0	357.9	276.0	252.6	229.2	226.9	224.6
47.5°	11854.8	10519.1	5450.2	1862.0	748.5	299.4	287.7	233.9	205.8	201.2	201.2
50°	11630.2	10729.6	5571.8	1780.1	673.7	243.3	283.0	219.9	182.5	175.4	177.8
52.5°	11658.3	10977.6	5829.1	1665.5	580.1	194.1	229.2	208.2	166.1	154.4	156.7
55°	11209.2	10715.6	5864.2	1543.8	453.8	149.7	175.4	182.5	140.3	135.7	135.7
57.5°	9649.0	9073.5	5174.2	1251.4	299.4	124.0	126.3	159.1	121.6	117.0	119.3
60°	8257.2	7284.1	4163.7	825.7	187.1	98.2	91.2	161.4	107.6	105.3	112.3
62.5°	7527.4	5985.9	3157.8	512.3	128.7	74.9	63.2	131.0	93.6	93.6	102.9
65°	5438.5	4021.0	1836.2	269.0	91.2	58.5	46.8	74.9	77.2	79.5	84.2
67.5°	3368.4	2030.4	774.3	131.0	60.8	39.8	30.4	46.8	51.5	51.5	56.1
70°	1663.1	809.3	257.3	74.9	46.8	32.7	21.1	25.7	25.7	23.4	25.7
72.5°	514.6	243.3	65.5	46.8	32.7	21.1	11.7	9.4	4.7	0.0	2.3
75°	58.5	46.8	42.1	32.7	21.1	9.4	2.3	0.0	0.0	0.0	0.0
77.5°	35.1	39.8	39.8	32.7	21.1	7.0	0.0	0.0	0.0	0.0	0.0
80°	28.1	30.4	32.7	30.4	18.7	9.4	0.0	0.0	0.0	0.0	0.0
82.5°	35.1	39.8	44.4	39.8	25.7	11.7	4.7	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	7.0	2.3	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°	6030.3	6030.3	6030.3	6030.3	6030.3	6030.3	6030.3	6030.3	6030.3	6030.3	6030.3
2.5°	5127.4	5075.9	5148.4	5040.8	5038.5	5040.8	5010.4	4982.4	5026.8	5146.1	5157.8
5°	3913.4	4023.3	4058.4	4173.0	4109.9	4016.3	4035.0	3971.9	4126.2	4194.1	4140.3
7.5°	2849.1	2842.1	3078.3	3092.3	3122.8	3125.1	3120.4	2996.4	2870.1	2898.2	2982.4
10°	2210.5	2091.2	2205.8	2194.1	2269.0	2247.9	2278.3	2145.0	2189.4	2189.4	2243.2
12.5°	1801.1	1674.8	1653.8	1623.4	1653.8	1665.5	1677.2	1651.4	1726.3	1761.4	1798.8
15°	1375.4	1305.2	1286.5	1228.0	1237.4	1270.2	1298.2	1309.9	1286.5	1340.3	1345.0
17.5°	998.8	996.5	1008.2	1005.8	996.5	989.5	987.1	956.7	947.4	952.0	970.7
20°	757.9	776.6	816.4	856.1	877.2	851.4	816.4	764.9	743.8	748.5	750.9
22.5°	647.9	676.0	729.8	774.3	795.3	748.5	685.4	640.9	631.6	629.2	626.9
25°	587.1	619.9	659.6	673.7	671.3	643.3	596.5	577.8	573.1	568.4	547.4
27.5°	554.4	566.1	573.1	589.5	596.5	577.8	566.1	538.0	533.3	533.3	519.3
30°	535.7	528.6	538.0	526.3	535.7	521.6	524.0	524.0	512.3	517.0	517.0
32.5°	498.2	500.6	500.6	477.2	484.2	467.8	484.2	498.2	500.6	502.9	521.6
35°	364.9	407.0	428.1	428.1	435.1	423.4	421.0	404.7	383.6	362.6	353.2
37.5°	320.5	336.8	364.9	381.3	393.0	383.6	362.6	336.8	325.1	315.8	306.4
40°	285.4	299.4	318.1	336.8	360.2	348.5	315.8	304.1	290.1	290.1	280.7
42.5°	257.3	264.3	276.0	304.1	329.8	306.4	283.0	273.7	266.7	264.3	262.0
45°	231.6	233.9	245.6	269.0	299.4	276.0	252.6	240.9	243.3	245.6	243.3
47.5°	208.2	212.9	219.9	247.9	266.7	255.0	229.2	222.2	222.2	222.2	224.6
50°	180.1	191.8	205.8	229.2	243.3	236.3	215.2	205.8	201.2	201.2	203.5
52.5°	161.4	170.8	189.5	217.5	236.3	224.6	203.5	189.5	180.1	177.8	182.5
55°	140.3	156.7	187.1	208.2	233.9	222.2	198.8	182.5	166.1	163.7	163.7
57.5°	126.3	152.0	180.1	205.8	226.9	217.5	198.8	177.8	156.7	154.4	154.4
60°	119.3	147.4	175.4	198.8	226.9	212.9	196.5	173.1	149.7	149.7	147.4
62.5°	112.3	138.0	166.1	189.5	217.5	205.8	189.5	166.1	142.7	142.7	138.0
65°	93.6	119.3	138.0	159.1	189.5	177.8	161.4	145.0	126.3	121.6	124.0
67.5°	65.5	81.9	100.6	121.6	140.3	135.7	128.7	117.0	100.6	98.2	95.9
70°	32.7	44.4	60.8	81.9	98.2	93.6	88.9	79.5	70.2	67.8	67.8
72.5°	4.7	14.0	25.7	37.4	51.5	53.8	51.5	49.1	46.8	44.4	46.8
75°	0.0	0.0	0.0	9.4	21.1	25.7	30.4	35.1	35.1	30.4	37.4
77.5°	0.0	0.0	0.0	0.0	2.3	11.7	23.4	30.4	37.4	32.7	44.4
80°	0.0	0.0	0.0	0.0	2.3	14.0	23.4	32.7	37.4	32.7	46.8
82.5°	0.0	0.0	0.0	0.0	2.3	16.4	23.4	30.4	35.1	32.7	42.1
85°	0.0	0.0	0.0	0.0	7.0	14.0	9.4	4.7	2.3	2.3	7.0
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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CATALOG NUMBER: GALN-SA3D-735-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6030.3	6030.3	6030.3	6030.3	6030.3	6030.3	6030.3	6030.3	6030.3	6030.3
2.5°	5223.3	5389.4	5567.2	5635.0	5845.5	6004.6	6112.2	6343.7	6378.8	6381.2
5°	4196.4	4280.6	4584.7	4727.4	5040.8	5284.1	5543.8	5918.0	6168.3	6187.0
7.5°	2982.4	3216.3	3345.0	3716.9	4102.9	4484.1	4870.1	5305.2	5595.2	5602.2
10°	2400.0	2552.0	2781.2	3059.6	3384.7	3773.0	4287.6	4792.9	5087.6	5160.1
12.5°	1932.1	2198.8	2460.8	2748.5	2996.4	3288.8	3843.2	4516.9	4760.2	4905.2
15°	1487.7	1731.0	2039.7	2376.6	2657.3	3047.9	3679.5	4449.0	4858.4	4907.5
17.5°	1097.1	1314.6	1600.0	1918.1	2339.1	2893.5	3707.5	4792.9	5178.9	5260.7
20°	788.3	914.6	1139.2	1508.7	2044.4	2713.4	3735.6	5141.4	5728.6	5868.9
22.5°	624.6	676.0	823.4	1150.9	1714.6	2523.9	3934.4	5808.1	6484.1	6687.6
25°	542.7	570.8	640.9	907.6	1506.4	2505.2	4252.6	6608.1	7489.9	7637.3
27.5°	524.0	528.6	589.5	832.7	1394.1	2381.2	4374.2	7176.5	8116.8	8266.5
30°	552.0	626.9	631.6	704.1	1185.9	2135.6	4437.3	7726.2	8647.8	8757.7
32.5°	477.2	453.8	470.2	545.0	1043.3	1992.9	4556.6	8205.7	9253.6	9330.8
35°	332.2	348.5	386.0	472.5	912.3	1843.2	4587.1	8734.4	9829.1	9908.6
37.5°	306.4	315.8	346.2	402.3	802.3	1759.0	4544.9	9120.3	10425.5	10535.5
40°	285.4	297.1	313.4	364.9	720.5	1665.5	4486.5	9468.8	10790.5	11061.8
42.5°	269.0	278.4	292.4	348.5	650.3	1571.9	4404.6	9960.1	11117.9	11354.2
45°	250.3	264.3	280.7	339.2	610.5	1508.7	4343.8	9929.7	11307.4	11433.7
47.5°	231.6	255.0	273.7	315.8	598.8	1478.3	4369.5	9815.0	11153.0	11066.5
50°	212.9	243.3	276.0	262.0	570.8	1417.5	4399.9	9971.8	10785.8	10769.4
52.5°	196.5	231.6	257.3	215.2	507.6	1359.0	4694.7	10177.6	11045.4	10827.9
55°	173.1	208.2	205.8	173.1	411.7	1314.6	4926.2	10182.3	10870.0	10951.9
57.5°	156.7	184.8	161.4	145.0	304.1	1099.4	4549.6	8537.9	9305.1	9450.1
60°	145.0	180.1	121.6	114.6	198.8	793.0	3971.9	6612.7	7396.4	7670.0
62.5°	133.3	170.8	95.9	93.6	138.0	563.7	3265.4	5534.4	6374.2	6746.1
65°	117.0	121.6	77.2	72.5	98.2	304.1	1988.3	3810.5	4764.8	4902.8
67.5°	95.9	93.6	63.2	58.5	65.5	147.4	877.2	1908.7	2762.5	2994.1
70°	77.2	77.2	53.8	46.8	46.8	67.8	229.2	760.2	1249.1	1382.4
72.5°	56.1	58.5	42.1	37.4	35.1	32.7	37.4	152.0	327.5	418.7
75°	49.1	51.5	42.1	32.7	25.7	21.1	16.4	14.0	18.7	30.4
77.5°	53.8	53.8	44.4	30.4	23.4	16.4	9.4	4.7	4.7	2.3
80°	67.8	70.2	58.5	39.8	28.1	18.7	11.7	4.7	2.3	2.3
82.5°	72.5	79.5	65.5	49.1	35.1	21.1	11.7	2.3	0.0	0.0
85°	18.7	30.4	51.5	44.4	35.1	21.1	11.7	2.3	0.0	0.0
87.5°	0.0	2.3	7.0	7.0	9.4	9.4	7.0	2.3	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)