

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: P647334

Luminaire Tested: **GALN-SA3D-835-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647334
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-835-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 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: 9996.6 lumens
Efficiency: N/A
Efficacy: 54.3 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

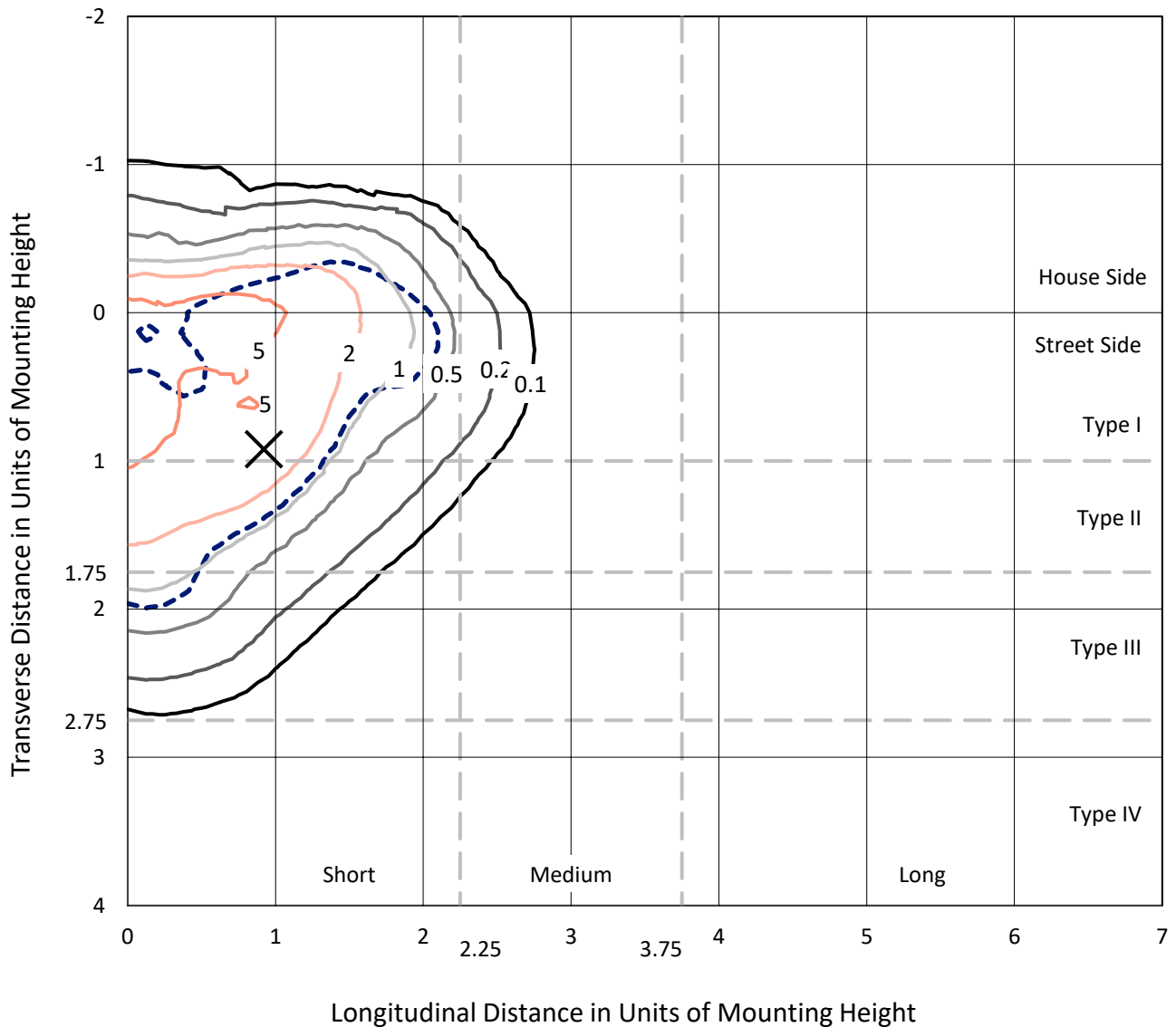




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Iso-Footcandle Lines of Horizontal Illumination

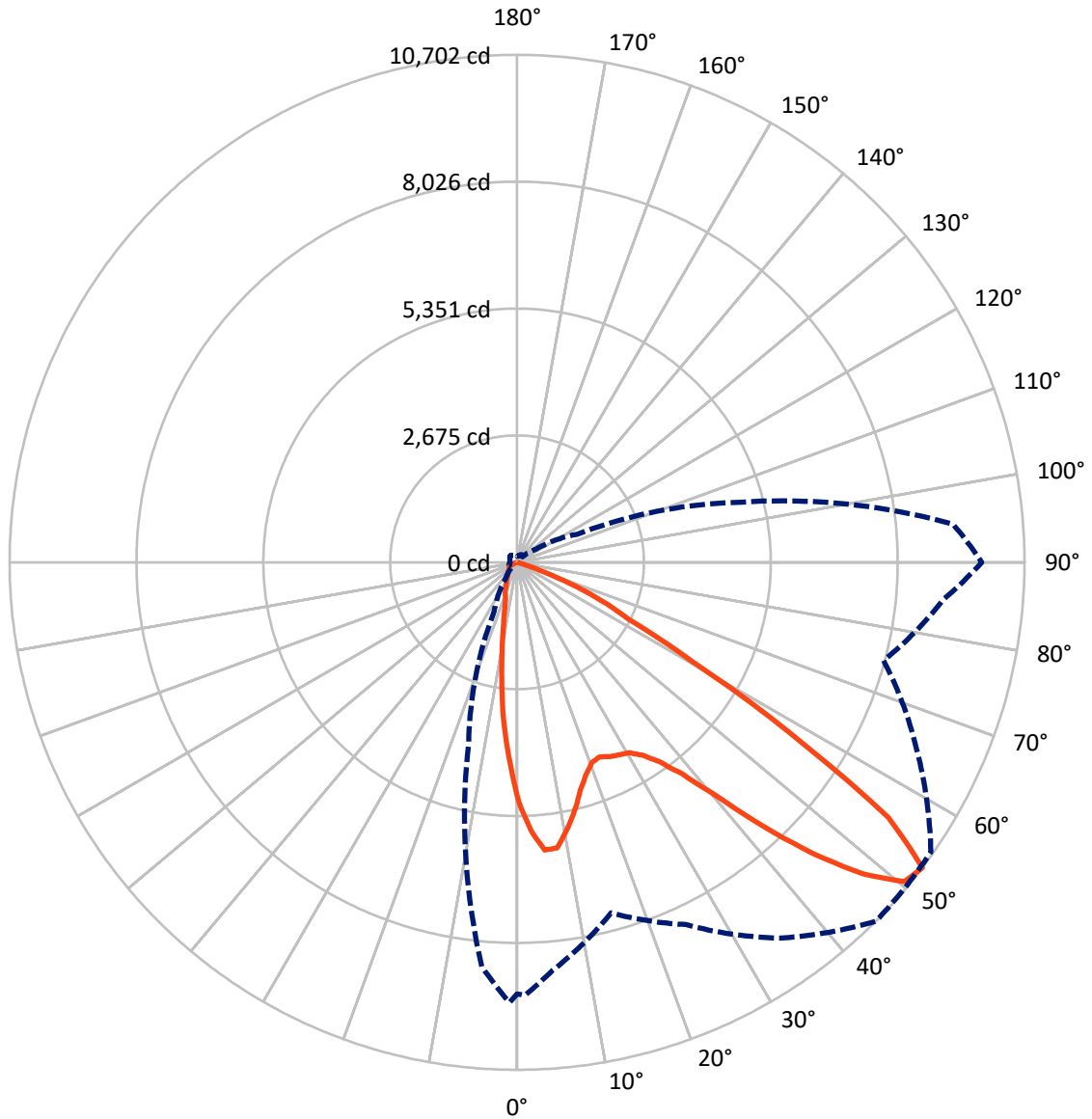
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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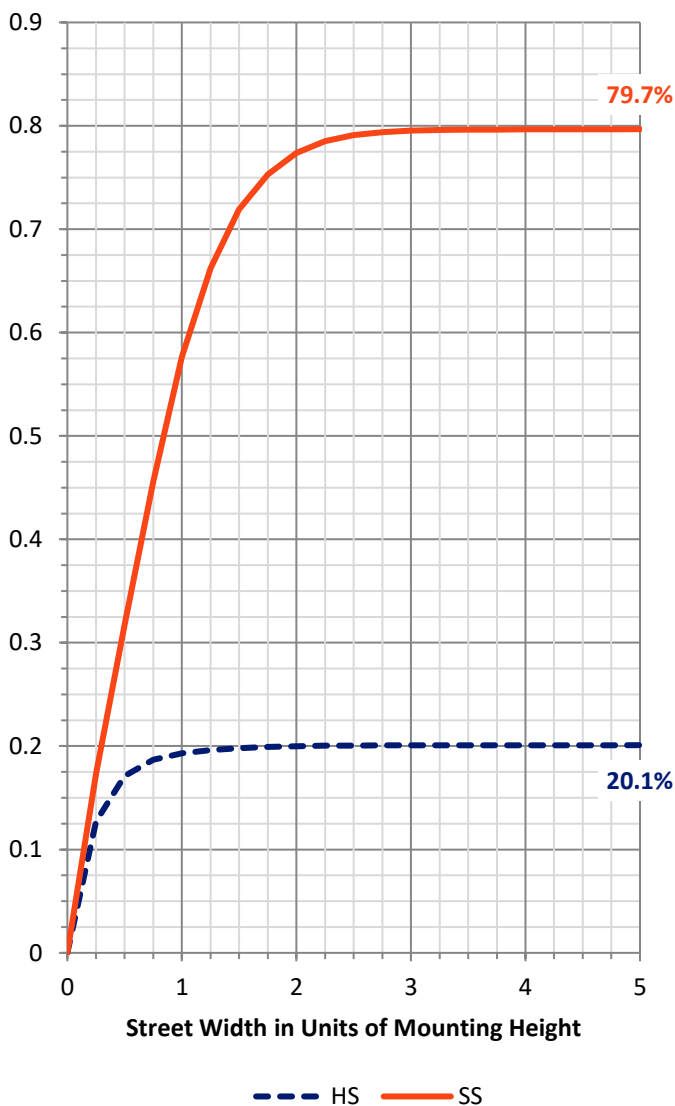
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2028.8	0.0	2028.8
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	7967.8	0.0	7967.8
	% Fixture	79.7	0.0	79.7
Total	Lumens	9996.6	0.0	9996.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.7	3.7
10°-20°	729.3	7.3
20°-30°	1109.9	11.1
30°-40°	1658.9	16.6
40°-50°	2362.4	23.6
50°-60°	2539.5	25.4
60°-70°	1125.3	11.3
70°-80°	91.1	0.9
80°-90°	10.6	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°	9996.6	100.0
0°-180°	9996.6	100.0

Coefficient of Utilization

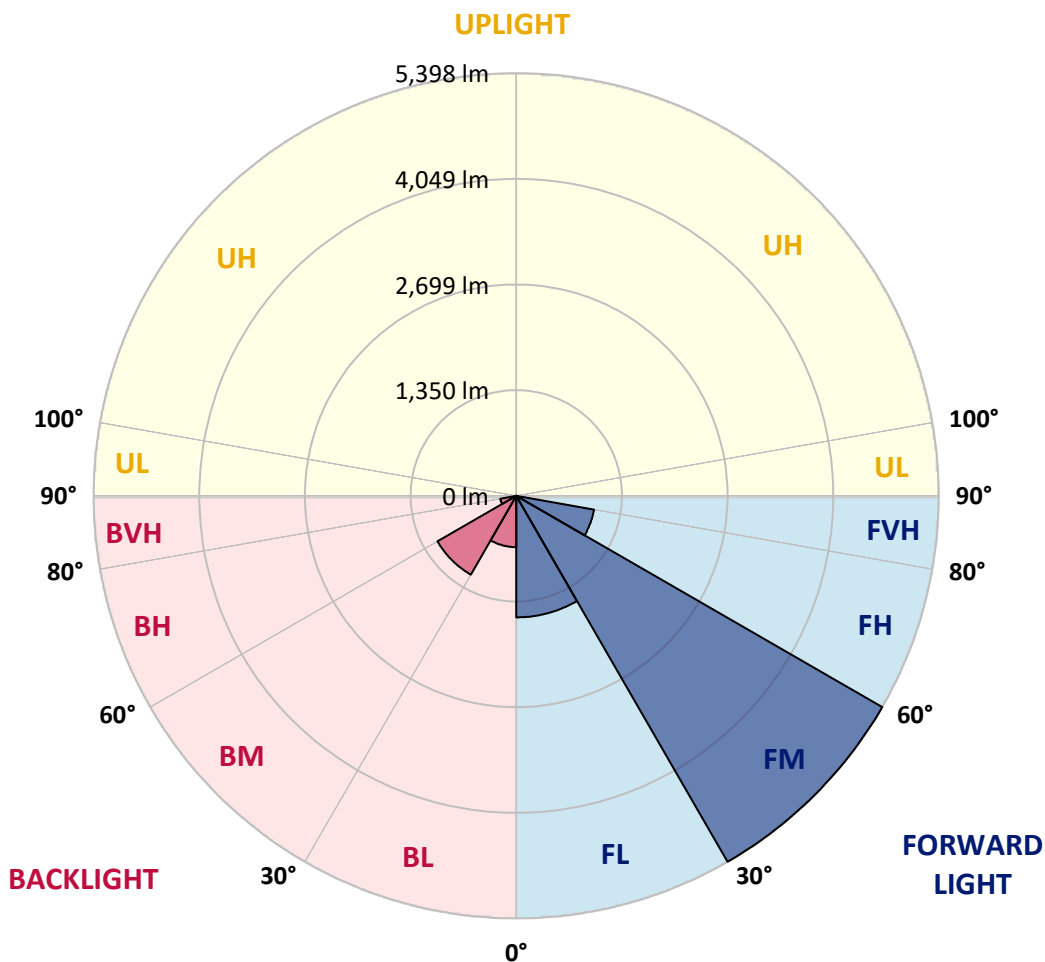


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1552.7	15.5			
FM (30°-60°)	5398.5	54.0			
FH (60°-80°)	1008.8	10.1			G1/1800
FVH (80°-90°)	7.9	0.1			G0/10
BL (0°-30°)	656.2	6.6	B2/1000		
BM (30°-60°)	1162.3	11.6	B2/2500		
BH (60°-80°)	207.6	2.1	B1/500		G1/500
BVH (80°-90°)	2.8	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°	5068.8	5068.8	5068.8	5068.8	5068.8	5068.8	5068.8	5068.8	5068.8	5068.8	5068.8
2.5°	5363.6	5379.4	5465.9	5574.0	5631.0	5760.8	5670.3	5694.0	5644.8	5471.8	5336.1
5°	5200.5	5198.5	5308.6	5576.0	5829.6	6087.2	6095.0	5957.5	5715.6	5450.1	5070.7
7.5°	4708.9	4785.6	4899.6	5326.3	5796.2	5988.9	6081.2	5920.0	5548.5	5169.0	4758.1
10°	4337.4	4376.7	4569.4	5084.5	5428.5	5686.1	5743.1	5650.7	5365.6	4891.8	4431.7
12.5°	4123.0	4142.7	4368.7	4801.4	5165.1	5355.8	5383.3	5426.6	5222.1	4777.7	4225.2
15°	4125.0	4140.7	4445.5	4807.2	4950.8	4899.6	4990.1	4988.1	5076.6	4756.1	4398.3
17.5°	4421.8	4439.5	4714.8	4893.8	4830.8	4710.9	4705.0	4795.4	4982.2	5025.5	4659.8
20°	4933.1	4974.3	5176.9	5167.0	4813.1	4571.3	4504.4	4573.3	5007.8	5253.5	5186.7
22.5°	5621.2	5678.2	5819.8	5548.5	4893.8	4476.9	4455.3	4589.0	5176.9	5762.8	5784.4
25°	6419.4	6515.8	6584.6	6236.6	5180.8	4640.1	4537.9	4767.9	5405.0	6315.3	6545.3
27.5°	6948.3	7048.6	7032.9	6535.5	5373.5	4683.4	4596.8	4811.1	5603.5	6447.0	6942.5
30°	7361.2	7422.2	7532.3	6696.7	5566.2	4805.3	4657.8	4994.0	5668.4	6675.1	7422.2
32.5°	7842.9	7884.3	7892.1	6981.8	5863.0	4958.6	4846.5	5222.1	5955.4	6893.3	7846.9
35°	8328.6	8389.5	8261.7	7333.7	6045.9	5243.7	5161.1	5617.2	6185.5	7119.4	8314.8
37.5°	8855.5	8887.0	8592.0	7479.2	6307.4	5707.8	5662.5	6043.9	6584.6	7528.4	8833.9
40°	9297.9	9327.4	8944.0	7658.1	6582.7	6356.6	6472.5	6857.9	7127.3	7793.8	9093.4
42.5°	9543.7	9612.5	9062.0	7559.9	7135.2	7091.9	7607.0	7742.7	7756.5	7868.5	9325.5
45°	9610.5	9579.1	8867.3	7640.4	7618.8	8301.1	8769.0	8947.9	8381.7	8006.2	9384.4
47.5°	9301.8	9343.1	8580.3	7569.7	8253.8	9217.3	9822.9	10155.1	8847.7	7886.2	9238.9
50°	9052.1	8999.0	8487.9	7518.5	8424.9	9649.8	10583.7	10658.5	9276.3	8033.7	9079.7
52.5°	9101.3	9134.7	8635.3	7654.2	8428.8	9675.4	10701.7	10650.6	9290.1	8000.2	9022.7
55°	9205.5	9058.1	8572.4	7355.3	7864.6	8961.7	9498.4	9419.8	8574.3	7644.4	8883.1
57.5°	7943.2	8171.3	7882.3	6566.9	6454.8	6751.7	6741.9	6983.7	6395.9	6578.7	8086.7
60°	6447.0	6486.3	6594.4	5617.2	4467.1	4364.8	4223.3	4070.0	4303.9	5625.2	7355.3
62.5°	5670.3	5623.2	6008.5	5110.0	3153.7	2640.5	2616.9	2711.3	3320.8	5365.6	6899.2
65°	4121.0	4180.0	4459.2	3965.7	2367.2	2015.3	1979.9	2259.1	2687.7	4299.9	5265.4
67.5°	2516.6	2630.7	2656.2	2445.9	1606.3	1276.1	1224.9	1478.5	1940.6	2782.1	3086.8
70°	1162.0	1299.6	1429.4	1335.0	930.0	524.9	495.5	621.3	979.1	1600.5	1637.8
72.5°	352.0	353.9	495.5	517.1	300.8	118.0	104.2	137.7	332.3	528.9	556.4
75°	25.5	27.6	66.9	76.7	57.0	29.5	31.5	37.3	70.8	118.0	88.5
77.5°	2.0	2.0	2.0	9.9	17.7	19.7	25.5	29.5	37.3	43.2	39.3
80°	2.0	0.0	2.0	7.8	13.8	19.7	23.6	27.6	29.5	33.4	29.5
82.5°	0.0	0.0	0.0	5.9	13.8	19.7	21.6	29.5	33.4	39.3	33.4
85°	0.0	0.0	0.0	5.9	13.8	21.6	19.7	9.9	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°	5068.8	5068.8	5068.8	5068.8	5068.8	5068.8	5068.8	5068.8	5068.8	5068.8	5068.8
2.5°	5359.7	5283.1	5108.1	5019.6	4811.1	4781.7	4577.2	4543.7	4474.9	4437.6	4347.1
5°	4903.5	4811.1	4526.1	4286.2	4007.0	3812.3	3663.0	3527.3	3448.6	3375.9	3409.3
7.5°	4531.9	4262.6	3946.1	3545.0	3222.5	3014.1	2786.0	2599.2	2489.2	2414.5	2432.2
10°	4142.7	3967.7	3527.3	3077.0	2687.7	2540.3	2361.4	2217.8	2062.5	1928.8	1865.9
12.5°	4020.8	3761.2	3208.7	2750.6	2455.7	2312.2	2107.7	1942.5	1744.0	1580.8	1523.8
15°	4042.4	3792.7	3122.2	2632.7	2284.6	2036.9	1793.1	1588.6	1370.4	1256.4	1197.4
17.5°	4394.4	3961.7	3179.3	2508.8	2046.8	1702.7	1401.9	1142.3	979.1	861.1	835.6
20°	4826.9	4327.5	3301.1	2418.4	1852.1	1354.7	1024.4	800.2	664.5	644.9	639.0
22.5°	5460.0	4925.2	3562.6	2357.4	1614.2	1055.8	701.9	582.0	544.7	540.7	542.6
25°	6344.7	5674.3	3847.7	2306.3	1435.3	814.0	574.1	493.5	481.7	475.8	485.6
27.5°	6728.2	6126.5	3999.2	2196.2	1272.1	733.4	566.3	489.5	456.2	446.3	452.2
30°	7202.0	6427.3	4237.0	2007.5	1032.2	603.6	528.9	532.8	517.1	467.9	452.2
32.5°	7831.2	6802.9	4357.0	1873.7	922.1	499.4	387.4	355.9	397.1	405.0	418.8
35°	8234.2	7184.3	4417.9	1795.1	865.1	426.7	328.3	298.9	289.0	291.0	298.9
37.5°	8983.3	7699.4	4494.6	1712.5	821.8	371.6	296.9	269.4	255.6	255.6	263.5
40°	9431.6	8108.4	4598.8	1667.3	778.6	338.2	269.4	245.8	234.0	234.0	237.9
42.5°	9543.7	8310.9	4563.4	1651.6	729.4	330.3	245.8	228.1	214.3	212.3	210.4
45°	9744.2	8619.6	4569.4	1633.9	678.3	300.8	232.0	212.3	192.7	190.7	188.8
47.5°	9964.5	8841.7	4581.1	1565.1	629.1	251.7	241.9	196.6	173.0	169.0	169.0
50°	9775.7	9018.7	4683.4	1496.2	566.3	204.4	237.9	184.8	153.4	147.4	149.4
52.5°	9799.2	9227.1	4899.6	1399.9	487.6	163.2	192.7	175.0	139.6	129.7	131.7
55°	9421.8	9006.9	4929.1	1297.7	381.4	125.8	147.4	153.4	118.0	114.0	114.0
57.5°	8110.3	7626.7	4349.1	1051.9	251.7	104.2	106.2	133.7	102.3	98.3	100.3
60°	6940.5	6122.6	3499.8	694.1	157.3	82.6	76.7	135.7	90.4	88.5	94.4
62.5°	6327.0	5031.4	2654.3	430.6	108.1	63.0	53.1	110.1	78.6	78.6	86.5
65°	4571.3	3379.8	1543.4	226.1	76.7	49.2	39.3	63.0	64.9	66.9	70.8
67.5°	2831.2	1706.6	650.8	110.1	51.1	33.4	25.5	39.3	43.2	43.2	47.2
70°	1397.9	680.3	216.3	63.0	39.3	27.6	17.7	21.6	21.6	19.7	21.6
72.5°	432.5	204.4	55.0	39.3	27.6	17.7	9.9	7.8	3.9	0.0	2.0
75°	49.2	39.3	35.4	27.6	17.7	7.8	2.0	0.0	0.0	0.0	0.0
77.5°	29.5	33.4	33.4	27.6	17.7	5.9	0.0	0.0	0.0	0.0	0.0
80°	23.6	25.5	27.6	25.5	15.7	7.8	0.0	0.0	0.0	0.0	0.0
82.5°	29.5	33.4	37.3	33.4	21.6	9.9	3.9	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	5.9	2.0	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°	5068.8	5068.8	5068.8	5068.8	5068.8	5068.8	5068.8	5068.8	5068.8	5068.8	5068.8
2.5°	4309.8	4266.6	4327.5	4237.0	4235.1	4237.0	4211.4	4187.9	4225.2	4325.5	4335.3
5°	3289.4	3381.8	3411.3	3507.6	3454.5	3375.9	3391.6	3338.5	3468.3	3525.3	3480.0
7.5°	2394.7	2388.9	2587.4	2599.2	2624.8	2626.8	2622.8	2518.6	2412.4	2436.1	2506.9
10°	1858.0	1757.8	1854.1	1844.3	1907.2	1889.5	1915.1	1802.9	1840.3	1840.3	1885.5
12.5°	1513.9	1407.8	1390.1	1364.5	1390.1	1399.9	1409.7	1388.1	1451.0	1480.5	1512.0
15°	1156.1	1097.1	1081.4	1032.2	1040.1	1067.6	1091.2	1101.1	1081.4	1126.6	1130.5
17.5°	839.5	837.6	847.4	845.4	837.6	831.7	829.7	804.1	796.3	800.2	816.0
20°	637.0	652.8	686.2	719.6	737.3	715.7	686.2	642.9	625.2	629.1	631.1
22.5°	544.7	568.2	613.4	650.8	668.5	629.1	576.1	538.7	530.9	528.9	527.0
25°	493.5	521.0	554.4	566.3	564.3	540.7	501.4	485.6	481.7	477.8	460.1
27.5°	466.0	475.8	481.7	495.5	501.4	485.6	475.8	452.2	448.3	448.3	436.5
30°	450.2	444.4	452.2	442.4	450.2	438.5	440.4	440.4	430.6	434.5	434.5
32.5°	418.8	420.8	420.8	401.1	407.0	393.2	407.0	418.8	420.8	422.7	438.5
35°	306.7	342.1	359.8	359.8	365.7	355.9	353.9	340.1	322.4	304.7	296.9
37.5°	269.4	283.1	306.7	320.5	330.3	322.4	304.7	283.1	273.3	265.4	257.5
40°	239.8	251.7	267.4	283.1	302.8	292.9	265.4	255.6	243.8	243.8	235.9
42.5°	216.3	222.1	232.0	255.6	277.3	257.5	237.9	230.0	224.2	222.1	220.2
45°	194.7	196.6	206.5	226.1	251.7	232.0	212.3	202.5	204.4	206.5	204.4
47.5°	175.0	178.9	184.8	208.4	224.2	214.3	192.7	186.7	186.7	186.7	188.8
50°	151.4	161.2	173.0	192.7	204.4	198.6	180.9	173.0	169.0	169.0	171.1
52.5°	135.7	143.5	159.3	182.8	198.6	188.8	171.1	159.3	151.4	149.4	153.4
55°	118.0	131.7	157.3	175.0	196.6	186.7	167.1	153.4	139.6	137.7	137.7
57.5°	106.2	127.8	151.4	173.0	190.7	182.8	167.1	149.4	131.7	129.7	129.7
60°	100.3	123.9	147.4	167.1	190.7	178.9	165.1	145.5	125.8	125.8	123.9
62.5°	94.4	116.0	139.6	159.3	182.8	173.0	159.3	139.6	120.0	120.0	116.0
65°	78.6	100.3	116.0	133.7	159.3	149.4	135.7	121.9	106.2	102.3	104.2
67.5°	55.0	68.8	84.6	102.3	118.0	114.0	108.1	98.3	84.6	82.6	80.6
70°	27.6	37.3	51.1	68.8	82.6	78.6	74.7	66.9	59.0	57.0	57.0
72.5°	3.9	11.8	21.6	31.5	43.2	45.3	43.2	41.3	39.3	37.3	39.3
75°	0.0	0.0	0.0	7.8	17.7	21.6	25.5	29.5	29.5	25.5	31.5
77.5°	0.0	0.0	0.0	0.0	2.0	9.9	19.7	25.5	31.5	27.6	37.3
80°	0.0	0.0	0.0	0.0	2.0	11.8	19.7	27.6	31.5	27.6	39.3
82.5°	0.0	0.0	0.0	0.0	2.0	13.8	19.7	25.5	29.5	27.6	35.4
85°	0.0	0.0	0.0	0.0	5.9	11.8	7.8	3.9	2.0	2.0	5.9
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-835-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5068.8	5068.8	5068.8	5068.8	5068.8	5068.8	5068.8	5068.8	5068.8	5068.8
2.5°	4390.4	4530.0	4679.4	4736.4	4913.4	5047.1	5137.5	5332.2	5361.7	5363.6
5°	3527.3	3598.0	3853.6	3973.6	4237.0	4441.5	4659.8	4974.3	5184.7	5200.5
7.5°	2506.9	2703.5	2811.6	3124.2	3448.6	3769.1	4093.5	4459.2	4703.0	4708.9
10°	2017.2	2145.0	2337.7	2571.7	2845.0	3171.4	3603.9	4028.6	4276.4	4337.4
12.5°	1624.0	1848.2	2068.4	2310.2	2518.6	2764.4	3230.3	3796.6	4001.1	4123.0
15°	1250.5	1455.0	1714.5	1997.6	2233.5	2561.9	3092.8	3739.6	4083.7	4125.0
17.5°	922.1	1105.0	1344.9	1612.3	1966.1	2432.2	3116.3	4028.6	4353.0	4421.8
20°	662.6	768.7	957.5	1268.1	1718.4	2280.7	3139.9	4321.6	4815.1	4933.1
22.5°	524.9	568.2	692.1	967.3	1441.2	2121.5	3307.1	4881.9	5450.1	5621.2
25°	456.2	479.7	538.7	762.9	1266.2	2105.7	3574.5	5554.4	6295.6	6419.4
27.5°	440.4	444.4	495.5	699.9	1171.8	2001.5	3676.7	6032.2	6822.5	6948.3
30°	464.0	527.0	530.9	591.8	996.8	1795.1	3729.7	6494.2	7268.8	7361.2
32.5°	401.1	381.4	395.2	458.1	876.9	1675.2	3830.0	6897.2	7778.1	7842.9
35°	279.2	292.9	324.4	397.1	766.8	1549.3	3855.6	7341.6	8261.7	8328.6
37.5°	257.5	265.4	291.0	338.2	674.4	1478.5	3820.3	7666.0	8763.1	8855.5
40°	239.8	249.7	263.5	306.7	605.6	1399.9	3771.1	7959.0	9069.8	9297.9
42.5°	226.1	234.0	245.8	292.9	546.6	1321.2	3702.3	8371.8	9345.1	9543.7
45°	210.4	222.1	235.9	285.1	513.2	1268.1	3651.1	8346.3	9504.4	9610.5
47.5°	194.7	214.3	230.0	265.4	503.3	1242.6	3672.7	8249.9	9374.5	9301.8
50°	178.9	204.4	232.0	220.2	479.7	1191.5	3698.3	8381.7	9065.9	9052.1
52.5°	165.1	194.7	216.3	180.9	426.7	1142.3	3946.1	8554.7	9284.1	9101.3
55°	145.5	175.0	173.0	145.5	346.0	1105.0	4140.7	8558.7	9136.7	9205.5
57.5°	131.7	155.3	135.7	121.9	255.6	924.1	3824.2	7176.4	7821.3	7943.2
60°	121.9	151.4	102.3	96.3	167.1	666.5	3338.5	5558.3	6216.9	6447.0
62.5°	112.0	143.5	80.6	78.6	116.0	473.9	2744.7	4651.9	5357.8	5670.3
65°	98.3	102.3	64.9	60.9	82.6	255.6	1671.2	3202.9	4005.0	4121.0
67.5°	80.6	78.6	53.1	49.2	55.0	123.9	737.3	1604.4	2322.0	2516.6
70°	64.9	64.9	45.3	39.3	39.3	57.0	192.7	639.0	1049.9	1162.0
72.5°	47.2	49.2	35.4	31.5	29.5	27.6	31.5	127.8	275.2	352.0
75°	41.3	43.2	35.4	27.6	21.6	17.7	13.8	11.8	15.7	25.5
77.5°	45.3	45.3	37.3	25.5	19.7	13.8	7.8	3.9	3.9	2.0
80°	57.0	59.0	49.2	33.4	23.6	15.7	9.9	3.9	2.0	2.0
82.5°	60.9	66.9	55.0	41.3	29.5	17.7	9.9	2.0	0.0	0.0
85°	15.7	25.5	43.2	37.3	29.5	17.7	9.9	2.0	0.0	0.0
87.5°	0.0	2.0	5.9	5.9	7.8	7.8	5.9	2.0	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)