

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: P646843

Luminaire Tested: **GALN-SA3C-835-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646843
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-SA3C-835-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1050mA 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: 9085.1 lumens
Efficiency: N/A
Efficacy: 56.8 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): 160
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

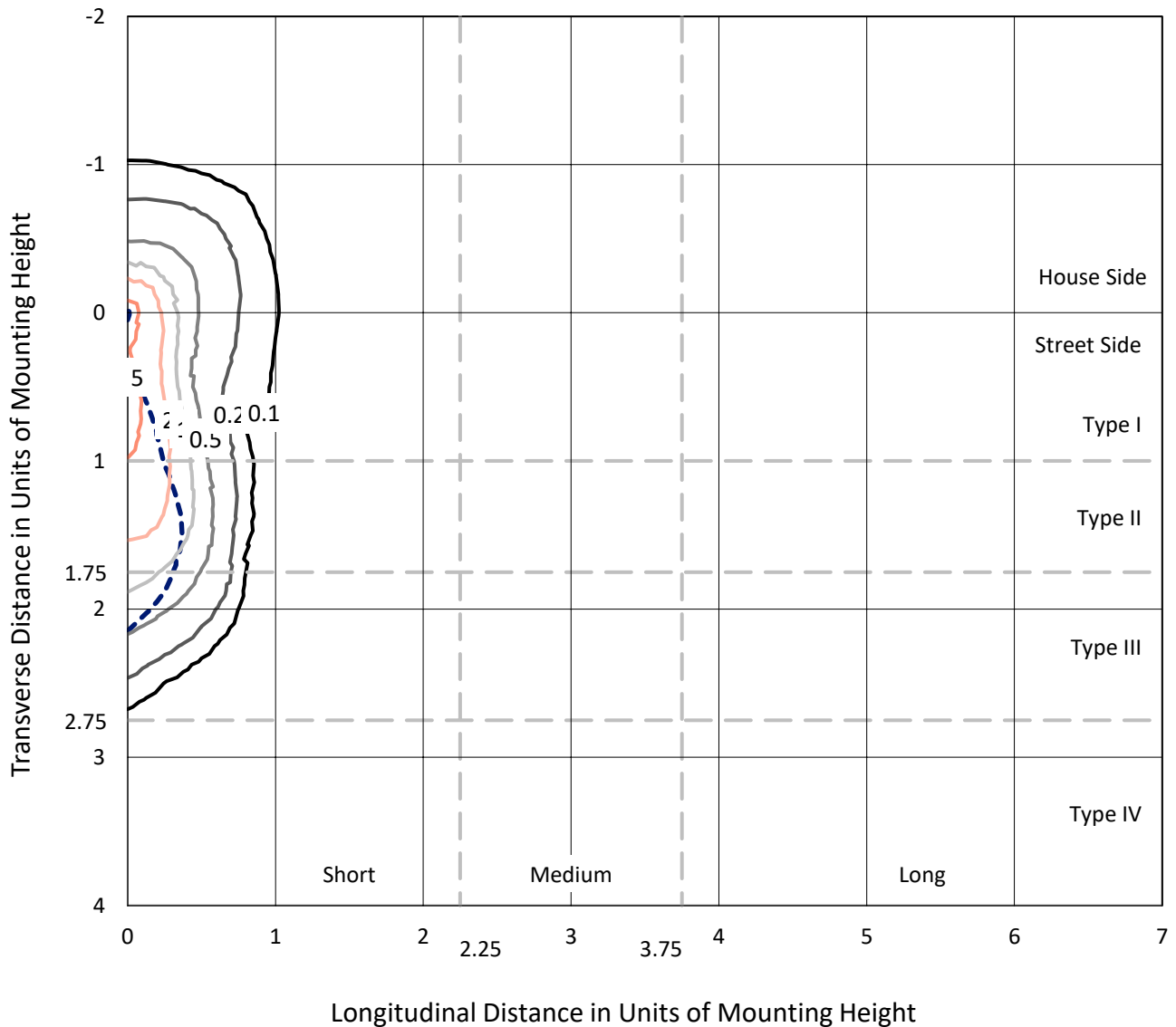




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Iso-Footcandle Lines of Horizontal Illumination

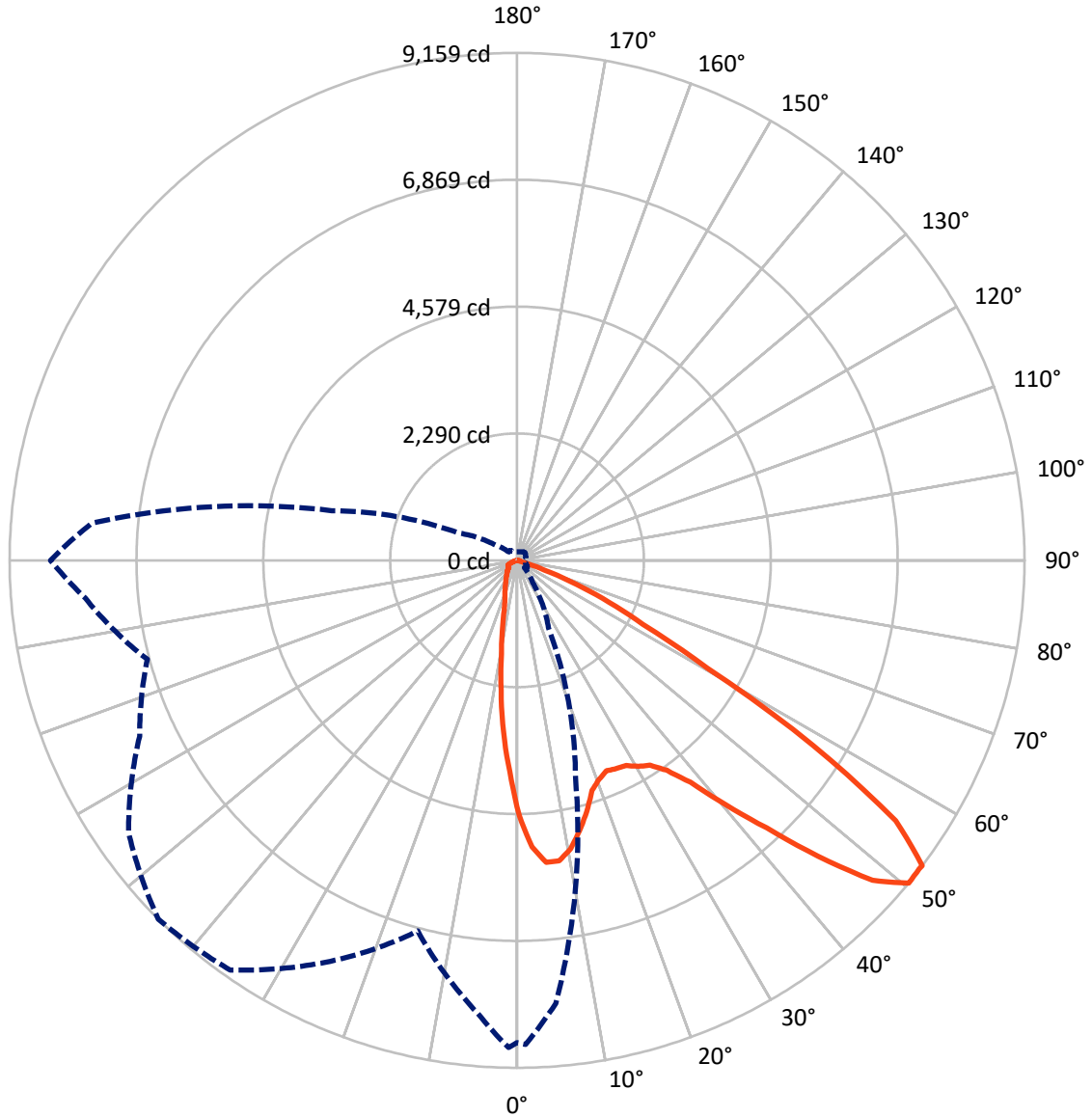
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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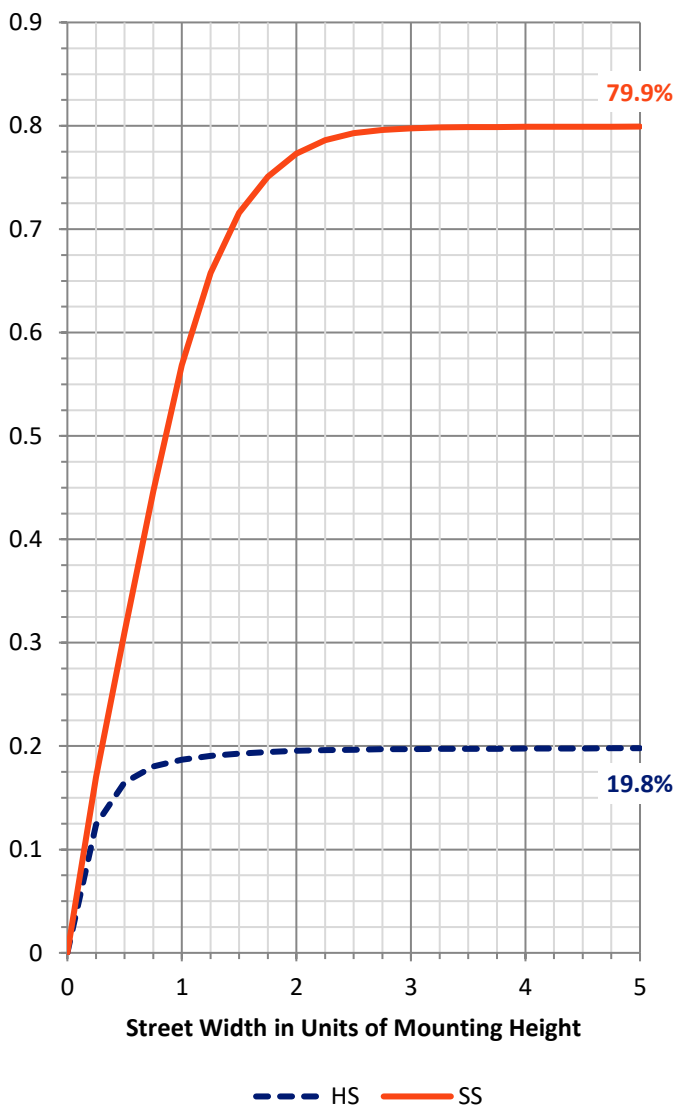
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1819.7	0.0	1819.7
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	7265.4	0.0	7265.4
	% Fixture	80.0	0.0	80.0
Total	Lumens	9085.1	0.0	9085.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.8	3.7
10°-20°	667.4	7.3
20°-30°	1002.7	11.0
30°-40°	1505.0	16.6
40°-50°	2115.2	23.3
50°-60°	2281.6	25.1
60°-70°	1059.3	11.7
70°-80°	99.7	1.1
80°-90°	18.4	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°	9085.1	100.0
0°-180°	9085.1	100.0

Coefficient of Utilization



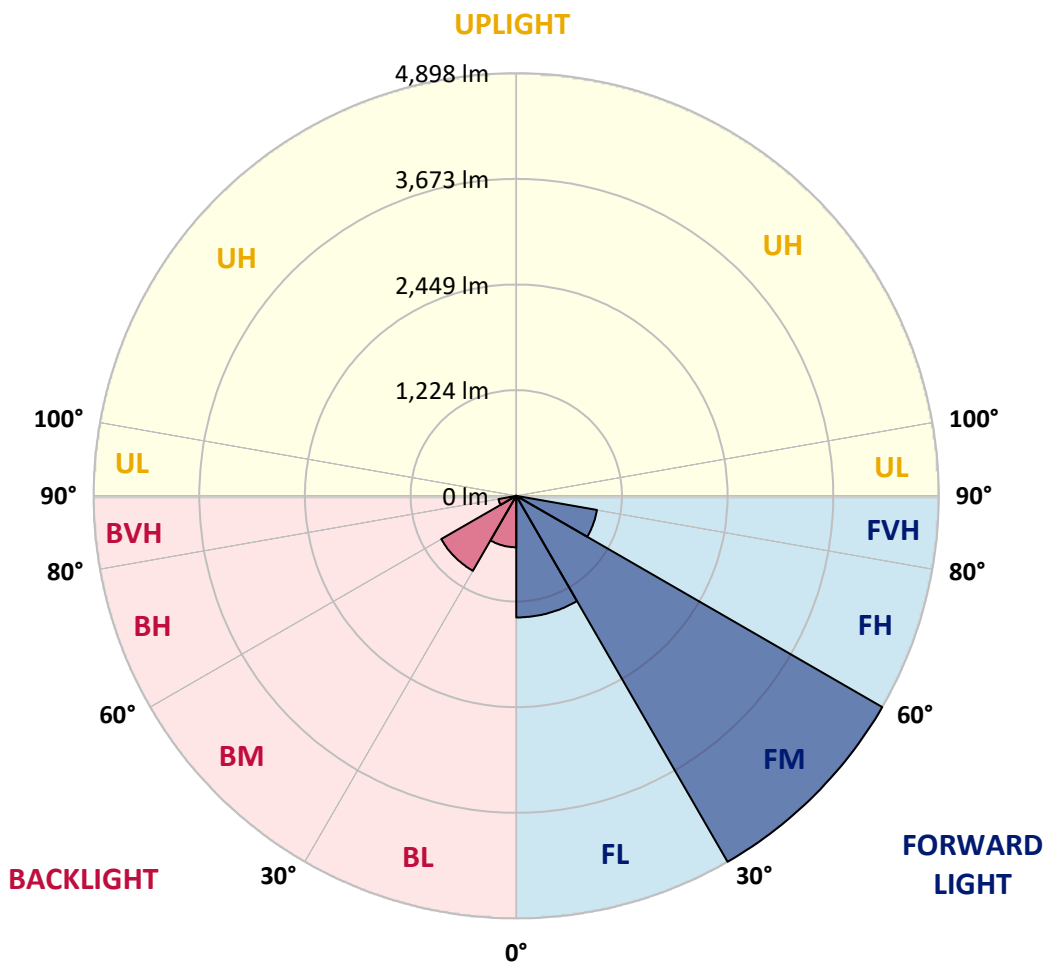
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1409.5	15.5			
FM (30°-60°)	4897.6	53.9			
FH (60°-80°)	950.0	10.5			G1/1800
FVH (80°-90°)	8.3	0.1			G0/10
BL (0°-30°)	596.5	6.6	B2/1000		
BM (30°-60°)	1004.2	11.1	B2/2500		
BH (60°-80°)	208.9	2.3	B1/500		G1/500
BVH (80°-90°)	10.1	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°	4607.3	4607.3	4607.3	4607.3	4607.3	4607.3	4607.3	4607.3	4607.3	4607.3	4607.3
2.5°	4789.4	4715.5	4621.7	4544.2	4428.9	4196.3	4133.2	4057.5	3994.5	3909.8	3790.7
5°	4355.0	4331.6	4288.3	3996.3	3785.3	3504.2	3273.4	3176.1	3048.1	2943.5	2867.9
7.5°	4023.3	3929.6	3792.5	3498.8	3161.7	2860.6	2604.6	2455.1	2285.7	2227.9	2125.2
10°	3668.2	3689.8	3488.0	3075.2	2667.8	2424.4	2265.8	2121.6	1968.4	1867.5	1721.4
12.5°	3554.7	3484.4	3329.3	2819.2	2471.3	2244.2	2051.3	1872.9	1710.6	1548.4	1407.8
15°	3628.5	3520.4	3304.1	2765.1	2319.9	2036.9	1795.3	1553.8	1404.2	1196.9	1050.9
17.5°	3893.5	3806.9	3516.8	2822.8	2242.4	1838.6	1479.9	1231.1	1002.2	814.8	740.9
20°	4335.2	4212.5	3848.4	2896.7	2127.0	1598.9	1200.5	894.0	677.8	598.4	557.0
22.5°	4767.8	4701.1	4241.4	3039.1	2024.3	1386.1	901.3	602.0	506.5	492.1	465.0
25°	5591.5	5391.4	4841.7	3296.9	1945.0	1186.1	679.6	484.9	429.0	418.2	421.8
27.5°	6081.8	5914.2	5396.8	3468.1	1856.6	1032.9	575.0	445.2	407.4	383.9	374.9
30°	6552.3	6357.6	5672.6	3569.1	1667.3	870.6	510.1	427.2	418.2	383.9	373.1
32.5°	6914.6	6723.5	6071.0	3720.4	1589.9	766.1	420.0	333.5	310.1	306.5	338.9
35°	7469.7	7266.1	6411.7	3803.3	1530.4	712.0	364.1	297.4	270.4	259.6	261.4
37.5°	7987.1	7848.3	6727.1	3835.8	1467.3	695.8	326.3	266.8	243.4	236.2	234.4
40°	8419.7	8109.7	7026.3	3870.1	1440.3	665.2	302.9	243.4	227.1	216.3	216.3
42.5°	8618.0	8302.5	7361.6	3850.2	1433.0	616.5	302.9	223.5	210.9	200.1	198.3
45°	8574.7	8446.8	7511.2	3841.2	1433.0	567.8	275.8	218.1	200.1	185.6	182.0
47.5°	8686.5	8518.9	7698.7	3879.1	1404.2	533.5	232.6	228.9	189.3	171.2	167.6
50°	8706.3	8738.7	8025.0	4075.6	1341.1	490.3	182.0	225.3	182.0	155.0	151.4
52°	8836.1	8634.2	8124.1	4180.1	1274.4	457.8	153.2	192.9	174.8	144.2	140.6
52.5°	8657.6	8789.3	8147.5	4217.9	1281.6	436.2	147.8	189.3	171.2	144.2	135.2
55°	8457.6	8583.7	8052.0	4299.1	1175.3	342.5	115.3	137.0	155.0	126.1	120.7
57.5°	7350.8	7478.7	6997.5	3936.8	957.1	241.6	95.5	102.7	137.0	117.1	111.7
60°	6534.2	6442.3	5872.7	3284.2	679.6	135.2	75.7	79.3	149.6	108.1	106.3
62.5°	5971.9	5775.3	4908.3	2536.2	414.6	90.1	59.5	61.3	115.3	100.9	100.9
65°	4418.1	4198.1	3260.8	1534.0	203.7	63.1	45.1	48.7	72.1	86.5	86.5
67.5°	2521.7	2437.0	1575.4	692.2	84.7	39.6	34.2	37.8	55.9	70.3	66.7
70°	1159.1	1040.1	605.7	146.0	39.6	27.0	27.0	30.6	45.1	52.3	48.7
72.5°	338.9	320.9	147.8	23.4	16.2	16.2	18.0	23.4	34.2	39.6	36.0
75°	25.2	16.2	10.8	7.2	7.2	10.8	14.4	23.4	34.2	37.8	30.6
77.5°	1.8	3.6	1.8	1.8	5.4	10.8	16.2	28.8	45.1	46.9	34.2
80°	1.8	1.8	0.0	1.8	5.4	10.8	18.0	32.4	50.5	54.1	28.8
82.5°	0.0	0.0	0.0	1.8	7.2	14.4	21.6	34.2	46.9	57.7	30.6
85°	0.0	0.0	0.0	1.8	10.8	19.8	25.2	9.0	5.4	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°	4607.3	4607.3	4607.3	4607.3	4607.3	4607.3	4607.3	4607.3	4607.3	4607.3	4607.3
2.5°	3875.5	3828.6	3810.6	3826.8	3821.4	3816.0	3915.2	3893.5	3889.9	3922.4	3915.2
5°	2909.3	2826.4	3053.5	2961.6	3057.1	3114.8	3125.7	3131.1	3197.7	3127.5	3219.4
7.5°	2072.9	2094.5	2092.7	2154.0	2264.0	2361.4	2419.0	2374.0	2370.4	2361.4	2321.7
10°	1656.5	1618.7	1611.5	1597.1	1631.3	1714.2	1784.5	1728.6	1689.0	1743.0	1726.8
12.5°	1353.7	1301.4	1272.6	1214.9	1216.7	1272.6	1272.6	1272.6	1312.2	1342.9	1366.3
15°	1038.3	995.0	995.0	937.3	924.7	926.5	955.3	958.9	1022.0	1040.1	1049.1
17.5°	726.4	703.0	730.1	753.5	739.1	742.7	753.5	757.1	766.1	758.9	776.9
20°	558.8	555.1	562.4	603.8	634.5	652.6	639.9	621.9	611.1	585.8	585.8
22.5°	474.1	481.3	493.9	528.1	567.8	578.6	564.2	522.7	490.3	486.7	488.5
25°	421.8	429.0	448.8	470.4	492.1	510.1	495.7	465.0	447.0	430.8	430.8
27.5°	389.4	393.0	403.8	420.0	438.0	452.4	447.0	430.8	411.0	403.8	387.6
30°	364.1	369.5	382.1	385.8	402.0	409.2	400.2	396.6	383.9	374.9	369.5
32.5°	351.5	349.7	358.7	362.3	364.1	369.5	358.7	364.1	362.3	347.9	342.5
35°	265.0	279.4	302.9	322.7	328.1	335.3	333.5	326.3	306.5	290.2	270.4
37.5°	238.0	247.0	259.6	275.8	297.4	306.5	302.9	284.8	261.4	250.6	247.0
40°	219.9	225.3	236.2	247.0	268.6	284.8	272.2	256.0	238.0	228.9	223.5
42.5°	203.7	205.5	210.9	221.7	238.0	263.2	241.6	219.9	212.7	207.3	203.7
45°	185.6	185.6	192.9	198.3	216.3	239.8	218.1	198.3	194.7	191.1	189.3
47.5°	171.2	173.0	176.6	183.8	198.3	214.5	200.1	183.8	174.8	173.0	169.4
50°	153.2	155.0	162.2	169.4	187.5	196.5	187.5	169.4	160.4	155.0	155.0
52°	138.8	144.2	151.4	165.8	178.4	192.9	182.0	162.2	151.4	146.0	142.4
52.5°	137.0	140.6	147.8	164.0	178.4	191.1	180.2	160.4	147.8	144.2	140.6
55°	122.5	127.9	140.6	160.4	176.6	191.1	176.6	158.6	140.6	131.6	127.9
57.5°	117.1	120.7	137.0	162.2	174.8	191.1	176.6	158.6	140.6	124.3	120.7
60°	111.7	118.9	137.0	156.8	173.0	192.9	178.4	156.8	137.0	117.1	117.1
62.5°	106.3	111.7	135.2	153.2	165.8	185.6	171.2	153.2	131.6	111.7	109.9
65°	91.9	100.9	118.9	127.9	142.4	160.4	146.0	133.4	115.3	99.1	97.3
67.5°	70.3	73.9	88.3	99.1	108.1	124.3	117.1	100.9	88.3	75.7	75.7
70°	48.7	52.3	63.1	68.5	77.5	86.5	81.1	68.5	59.5	52.3	50.5
72.5°	34.2	36.0	39.6	43.3	46.9	50.5	48.7	39.6	34.2	32.4	30.6
75°	27.0	30.6	32.4	30.6	28.8	27.0	27.0	23.4	19.8	18.0	18.0
77.5°	27.0	28.8	27.0	23.4	19.8	18.0	16.2	14.4	10.8	9.0	10.8
80°	23.4	23.4	23.4	19.8	18.0	16.2	14.4	12.6	10.8	9.0	9.0
82.5°	25.2	25.2	23.4	19.8	19.8	16.2	16.2	14.4	12.6	9.0	9.0
85°	0.0	0.0	0.0	3.6	9.0	16.2	16.2	14.4	12.6	10.8	10.8
87.5°	0.0	0.0	0.0	0.0	1.8	3.6	7.2	9.0	10.8	10.8	10.8
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°	4607.3	4607.3	4607.3	4607.3	4607.3	4607.3	4607.3	4607.3	4607.3	4607.3	4607.3
2.5°	3980.1	4048.5	4178.3	4308.1	4387.4	4481.1	4650.6	4740.7	4857.9	4915.5	5029.1
5°	3206.7	3368.9	3426.6	3574.5	3733.1	3891.7	4144.0	4421.7	4652.4	4811.0	5016.5
7.5°	2339.7	2377.6	2601.0	2700.3	2959.8	3248.2	3592.5	3942.2	4234.2	4493.8	4650.6
10°	1753.8	1892.7	2033.3	2222.5	2431.6	2729.1	3058.9	3444.7	3823.2	4082.8	4281.1
12.5°	1409.6	1519.6	1707.0	1910.7	2168.4	2365.0	2696.7	3078.8	3569.1	3823.2	4084.6
15°	1067.1	1207.7	1420.4	1631.3	1903.5	2110.8	2446.1	2927.3	3558.3	3908.0	4133.2
17.5°	791.3	886.8	1078.0	1314.0	1591.7	1883.7	2336.1	2911.1	3679.0	4095.4	4328.0
20°	605.7	638.1	758.9	969.7	1270.8	1652.9	2157.6	2981.4	4035.9	4551.4	4787.6
22.5°	490.3	504.7	551.5	697.6	989.6	1451.1	2072.9	3030.1	4437.9	5097.6	5413.0
25°	427.2	423.6	454.2	517.3	773.3	1261.8	1964.8	3214.0	4930.0	5739.3	6022.3
27.5°	389.4	389.4	403.8	448.8	641.7	1139.2	1896.3	3345.5	5425.6	6303.5	6456.7
30°	369.5	373.1	414.6	429.0	533.5	993.2	1782.7	3478.9	5899.7	6664.0	6874.9
32.5°	342.5	328.1	319.1	355.1	448.8	861.6	1669.2	3534.8	6283.7	7105.6	7285.9
35°	263.2	256.0	266.8	293.8	385.8	749.9	1543.0	3597.9	6725.3	7617.6	7653.6
37.5°	238.0	236.2	243.4	266.8	324.5	652.6	1452.9	3581.7	7062.4	8041.2	7943.8
40°	219.9	219.9	225.3	245.2	290.2	584.0	1359.1	3567.3	7388.6	8517.1	8232.2
42.5°	205.5	205.5	214.5	227.1	275.8	538.9	1288.8	3547.4	7662.7	8809.1	8401.7
45°	185.6	191.1	205.5	218.1	279.4	508.3	1236.5	3471.7	7756.4	8805.5	8320.5
47.5°	171.2	178.4	192.9	210.9	252.4	499.3	1200.5	3405.0	7723.9	8589.1	8066.4
50°	155.0	164.0	183.8	214.5	214.5	481.3	1162.7	3464.5	7700.5	8421.5	7823.0
52°	144.2	151.4	176.6	209.1	187.5	443.4	1139.2	3579.9	7796.0	8399.9	7714.9
52.5°	142.4	147.8	171.2	205.5	178.4	436.2	1123.0	3606.9	7826.6	8345.8	7788.8
55°	126.1	133.4	156.8	160.4	146.0	358.7	1070.8	3668.2	7675.3	8239.4	7718.5
57.5°	118.9	122.5	138.8	131.6	126.1	270.4	921.1	3572.7	6817.3	7318.4	7181.4
60°	109.9	113.5	129.8	102.7	106.3	189.3	692.2	3102.2	5474.3	6098.0	6345.0
62.5°	106.3	104.5	122.5	82.9	90.1	137.0	488.5	2521.7	4217.9	5020.1	5447.3
65°	93.7	91.9	88.3	70.3	77.5	106.3	292.0	1645.7	2972.4	3797.9	4032.3
67.5°	72.1	75.7	64.9	55.9	64.9	82.9	162.2	737.3	1559.2	2278.5	2467.7
70°	50.5	54.1	52.3	48.7	57.7	68.5	93.7	252.4	645.3	1196.9	1319.4
72.5°	30.6	37.8	39.6	41.4	50.5	59.5	66.7	81.1	171.2	423.6	526.3
75°	18.0	25.2	30.6	36.0	41.4	50.5	55.9	57.7	59.5	79.3	127.9
77.5°	12.6	18.0	27.0	34.2	41.4	50.5	59.5	63.1	59.5	55.9	59.5
80°	10.8	18.0	25.2	32.4	43.3	52.3	59.5	59.5	57.7	50.5	54.1
82.5°	10.8	18.0	27.0	34.2	41.4	50.5	57.7	59.5	54.1	50.5	52.3
85°	12.6	19.8	28.8	36.0	45.1	41.4	37.8	30.6	28.8	23.4	25.2
87.5°	12.6	18.0	18.0	19.8	21.6	21.6	21.6	19.8	16.2	14.4	14.4
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-SA3C-835-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4607.3	4607.3	4607.3	4607.3	4607.3	4607.3	4607.3	4607.3	4607.3	4607.3
2.5°	5034.5	5178.8	5173.3	5176.9	5155.3	5009.3	4939.0	4760.6	4811.0	4789.4
5°	5227.4	5369.8	5492.4	5477.9	5312.1	5113.9	4820.0	4542.4	4466.7	4355.0
7.5°	5034.5	5377.0	5490.6	5474.3	5229.2	4975.0	4506.4	4228.7	4097.2	4023.3
10°	4728.1	5124.7	5265.3	5294.1	5128.3	4742.5	4311.7	3866.5	3796.1	3668.2
12.5°	4553.2	4841.7	4928.2	5005.6	4948.0	4659.6	4163.9	3736.7	3639.4	3554.7
15°	4410.9	4582.1	4618.1	4706.5	4740.7	4585.7	4241.4	3877.3	3637.6	3628.5
17.5°	4542.4	4472.1	4340.6	4367.6	4475.7	4587.5	4441.5	4154.9	3922.4	3893.5
20°	4760.6	4450.5	4153.1	4219.7	4309.9	4652.4	4744.3	4542.4	4409.1	4335.2
22.5°	5011.1	4488.3	4093.6	4126.0	4297.3	4798.4	5234.6	5122.9	4874.1	4767.8
25°	5474.3	4592.9	4140.4	4162.1	4396.4	5002.0	5678.0	5760.9	5613.2	5591.5
27.5°	5926.8	4863.3	4243.2	4194.5	4446.9	5200.4	5946.6	6391.9	6132.3	6081.8
30°	6157.5	5083.2	4396.4	4313.5	4656.0	5321.1	6108.8	6802.8	6575.7	6552.3
32.5°	6510.8	5283.3	4515.4	4409.1	4773.2	5470.7	6411.7	7251.7	7031.7	6914.6
35°	6658.6	5501.4	4776.8	4652.4	5108.4	5679.8	6566.7	7651.8	7583.4	7469.7
37.5°	6943.4	5735.7	5085.0	5077.8	5514.0	5952.1	6846.1	8196.2	8183.6	7987.1
40°	6966.8	5991.7	5571.7	5798.8	6141.3	6426.1	7091.2	8347.6	8553.1	8419.7
42.5°	7002.9	6440.5	6413.5	6600.9	6894.8	6833.5	7100.2	8383.7	8697.3	8618.0
45°	7019.1	6889.4	7269.7	7615.8	7738.3	7367.0	7015.5	8315.1	8773.0	8574.7
47.5°	6889.4	7275.1	7961.9	8630.6	8666.6	7695.1	6979.5	8244.8	8818.1	8686.5
50°	6907.4	7516.6	8560.3	9158.8	9027.1	7985.3	6923.6	8201.6	8794.7	8706.3
52°	6864.1	7522.0	8645.0	9147.9	9056.0	7824.8	6828.1	8035.8	8773.0	8836.1
52.5°	6912.8	7489.6	8556.7	9155.1	9036.2	7904.2	6815.5	8127.7	8785.7	8657.6
55°	6745.2	7103.8	8039.4	8293.5	8275.5	7174.2	6427.9	7823.0	8455.8	8457.6
57.5°	6096.2	6157.5	6305.3	6299.9	6217.0	5640.2	5497.8	7194.0	7538.3	7350.8
60°	5371.6	4508.2	4109.8	3947.6	3855.6	3761.9	4863.3	6581.1	6613.5	6534.2
62.5°	4641.5	3125.7	2595.6	2550.6	2572.2	2914.7	4701.1	6337.8	6143.1	5971.9
65°	3745.7	2278.5	1885.5	1826.0	2036.9	2406.4	3805.1	4859.7	4560.4	4418.1
67.5°	2352.3	1661.9	1274.4	1162.7	1416.8	1656.5	2500.1	3053.5	2718.3	2521.7
70°	1395.1	928.3	576.8	517.3	582.2	883.2	1400.6	1523.2	1260.0	1159.1
72.5°	549.7	340.7	160.4	137.0	142.4	310.1	515.5	502.9	380.3	338.9
75°	147.8	102.7	55.9	45.1	37.8	57.7	82.9	54.1	19.8	25.2
77.5°	68.5	61.3	48.7	37.8	28.8	21.6	10.8	3.6	3.6	1.8
80°	59.5	52.3	45.1	37.8	28.8	18.0	9.0	1.8	1.8	1.8
82.5°	55.9	48.7	41.4	34.2	27.0	18.0	9.0	1.8	0.0	0.0
85°	23.4	30.6	34.2	32.4	28.8	18.0	9.0	1.8	0.0	0.0
87.5°	12.6	10.8	9.0	7.2	5.4	3.6	3.6	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)