

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: P647888

Luminaire Tested: **GALN-SA4A-835-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647888
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-SA4A-835-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA 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: 7830.8 lumens
Efficiency: N/A
Efficacy: 64.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

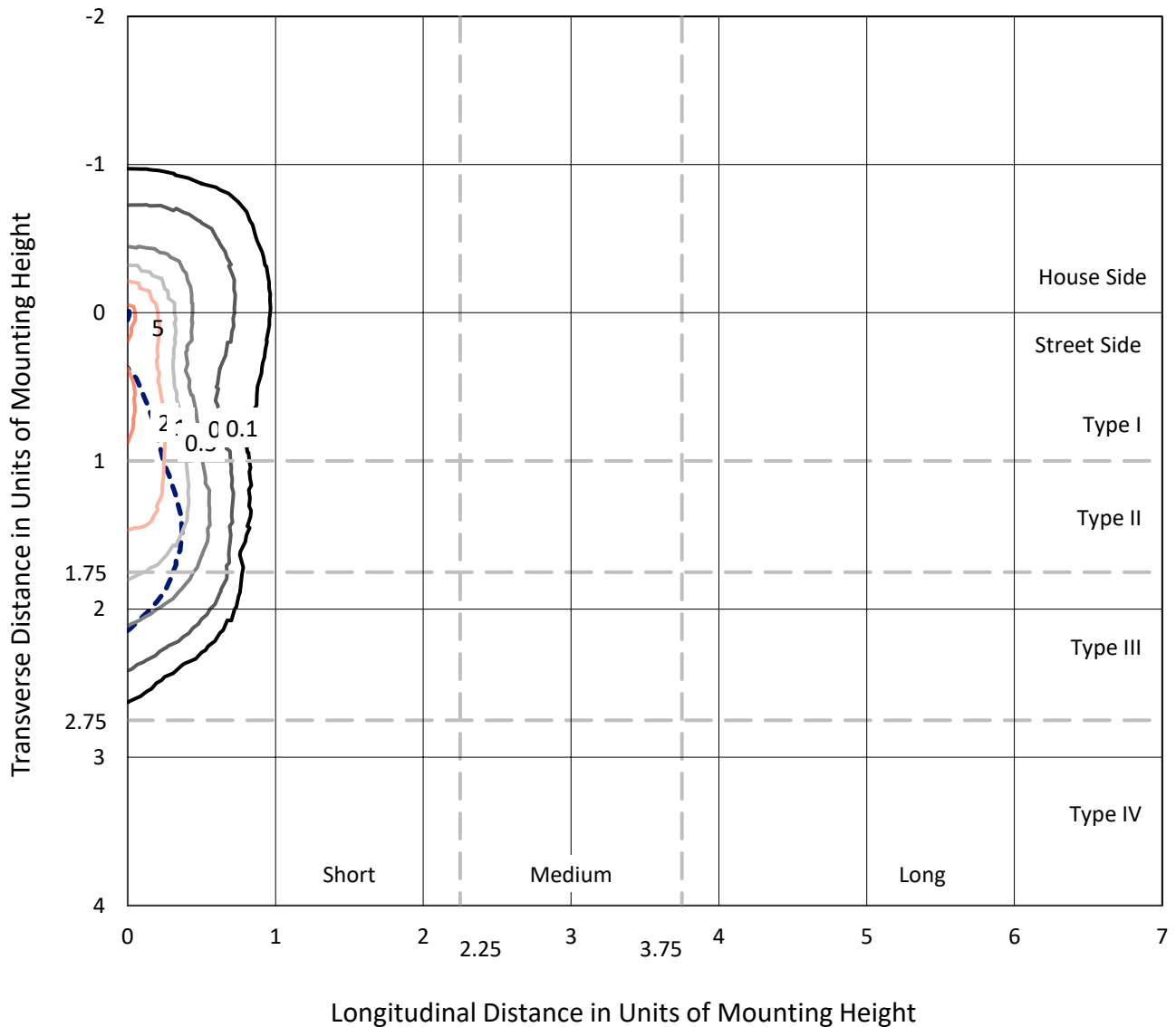
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

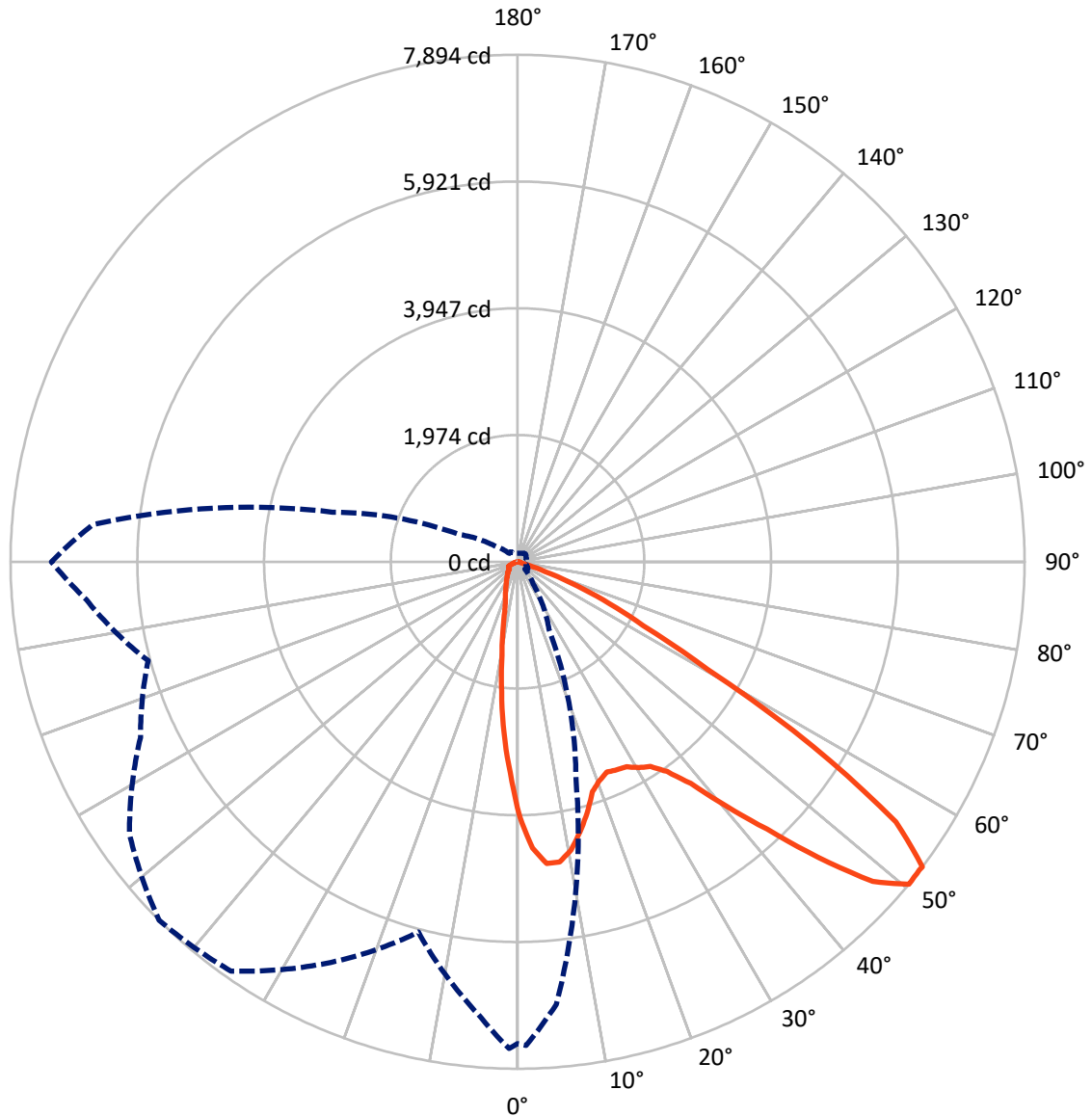
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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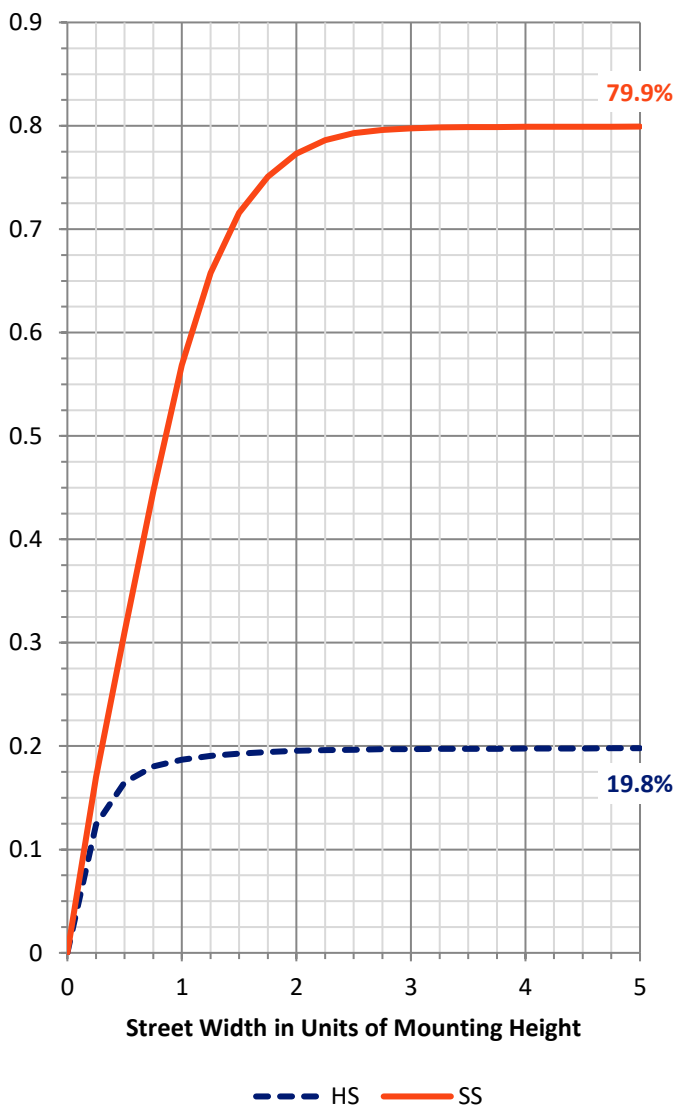
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1568.5	0.0	1568.5
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	6262.3	0.0	6262.3
	% Fixture	80.0	0.0	80.0
Total	Lumens	7830.8	0.0	7830.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.5	3.7
10°-20°	575.3	7.3
20°-30°	864.3	11.0
30°-40°	1297.2	16.6
40°-50°	1823.2	23.3
50°-60°	1966.6	25.1
60°-70°	913.1	11.7
70°-80°	85.9	1.1
80°-90°	15.8	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°	7830.8	100.0
0°-180°	7830.8	100.0

Coefficient of Utilization

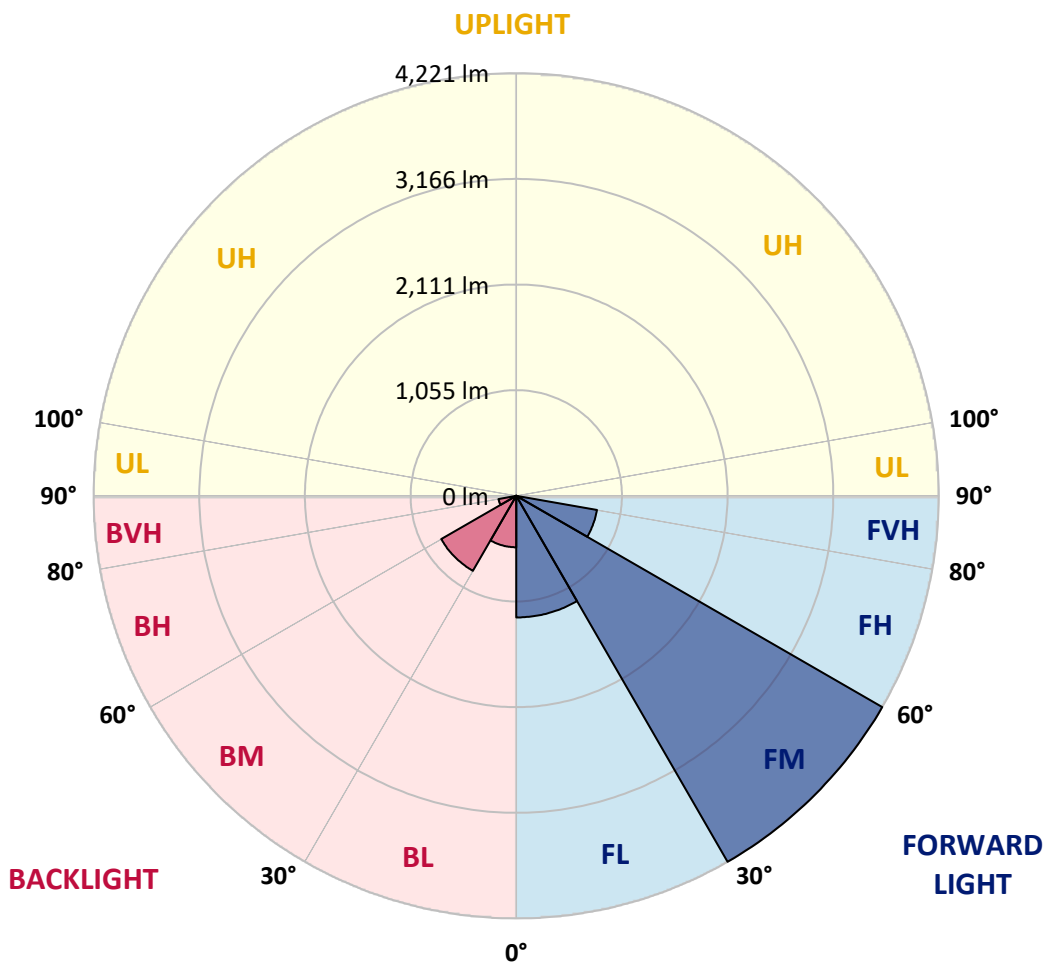


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1214.9	15.5			
FM (30°-60°)	4221.4	53.9			
FH (60°-80°)	818.9	10.5			G1/1800
FVH (80°-90°)	7.1	0.1			G0/10
BL (0°-30°)	514.1	6.6	B2/1000		
BM (30°-60°)	865.6	11.1	B1/1000		
BH (60°-80°)	180.1	2.3	B1/500		G1/500
BVH (80°-90°)	8.7	0.1			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°	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2
2.5°	4128.1	4064.4	3983.6	3916.8	3817.4	3617.0	3562.6	3497.3	3442.9	3370.0	3267.4
5°	3753.7	3733.5	3696.2	3444.5	3262.7	3020.3	2821.5	2737.6	2627.3	2537.2	2471.9
7.5°	3467.8	3387.0	3268.9	3015.6	2725.2	2465.7	2245.1	2116.1	1970.0	1920.3	1831.8
10°	3161.8	3180.4	3006.3	2650.5	2299.4	2089.7	1953.0	1828.7	1696.6	1609.6	1483.8
12.5°	3063.9	3003.3	2869.6	2430.0	2130.1	1934.3	1768.1	1614.2	1474.5	1334.6	1213.4
15°	3127.5	3034.4	2847.8	2383.4	1999.5	1755.6	1547.4	1339.2	1210.3	1031.6	905.8
17.5°	3355.9	3281.4	3031.2	2433.1	1932.8	1584.7	1275.6	1061.1	863.8	702.3	638.5
20°	3736.6	3630.9	3317.1	2496.8	1833.3	1378.1	1034.7	770.6	584.2	515.8	480.1
22.5°	4109.5	4051.9	3655.8	2619.5	1744.8	1194.8	776.8	518.9	436.6	424.2	400.8
25°	4819.5	4647.0	4173.2	2841.7	1676.4	1022.3	585.8	418.0	369.8	360.4	363.5
27.5°	5242.1	5097.6	4651.7	2989.3	1600.3	890.3	495.6	383.7	351.1	330.9	323.1
30°	5647.6	5479.8	4889.4	3076.3	1437.1	750.4	439.7	368.2	360.4	330.9	321.6
32.5°	5959.9	5795.2	5232.8	3206.8	1370.3	660.3	362.0	287.4	267.2	264.1	292.1
35°	6438.5	6262.9	5526.4	3278.3	1319.0	613.7	313.8	256.4	233.0	223.7	225.3
37.5°	6884.4	6764.7	5798.3	3306.2	1264.7	599.7	281.3	230.0	209.8	203.5	202.0
40°	7257.2	6990.0	6056.2	3335.7	1241.4	573.3	261.1	209.8	195.8	186.4	186.4
42.5°	7428.1	7156.2	6345.2	3318.7	1235.2	531.3	261.1	192.6	181.8	172.5	170.9
45°	7390.8	7280.5	6474.2	3310.9	1235.2	489.4	237.7	188.0	172.5	160.0	156.9
47.5°	7487.1	7342.7	6635.8	3343.5	1210.3	459.9	200.4	197.3	163.1	147.6	144.5
50°	7504.3	7532.2	6916.9	3512.9	1155.9	422.6	156.9	194.2	156.9	133.6	130.5
52°	7616.1	7442.1	7002.4	3603.0	1098.5	394.6	132.1	166.2	150.7	124.3	121.2
52.5°	7462.3	7575.8	7022.6	3635.6	1104.7	376.0	127.4	163.1	147.6	124.3	116.5
55°	7289.8	7398.6	6940.3	3705.5	1013.0	295.2	99.4	118.1	133.6	108.8	104.1
57.5°	6335.9	6446.2	6031.4	3393.2	825.0	208.2	82.4	88.6	118.1	101.0	96.3
60°	5632.0	5552.8	5061.9	2830.8	585.8	116.5	65.2	68.4	129.0	93.3	91.7
62.5°	5147.4	4978.0	4230.6	2186.1	357.4	77.7	51.3	52.9	99.4	87.0	87.0
65°	3808.0	3618.5	2810.6	1322.2	175.5	54.3	38.8	42.0	62.2	74.5	74.5
67.5°	2173.6	2100.6	1357.9	596.6	73.1	34.2	29.5	32.7	48.2	60.6	57.5
70°	999.0	896.5	522.0	125.8	34.2	23.3	23.3	26.4	38.8	45.0	42.0
72.5°	292.1	276.6	127.4	20.2	14.0	14.0	15.5	20.2	29.5	34.2	31.1
75°	21.8	14.0	9.3	6.2	6.2	9.3	12.4	20.2	29.5	32.7	26.4
77.5°	1.6	3.1	1.6	1.6	4.7	9.3	14.0	24.8	38.8	40.4	29.5
80°	1.6	1.6	0.0	1.6	4.7	9.3	15.5	28.0	43.5	46.6	24.8
82.5°	0.0	0.0	0.0	1.6	6.2	12.4	18.6	29.5	40.4	49.7	26.4
85°	0.0	0.0	0.0	1.6	9.3	17.1	21.8	7.8	4.7	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°	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2
2.5°	3340.4	3300.0	3284.5	3298.5	3293.8	3289.1	3374.6	3355.9	3352.8	3380.8	3374.6
5°	2507.6	2436.1	2631.9	2552.7	2635.0	2684.8	2694.1	2698.8	2756.2	2695.6	2774.9
7.5°	1786.7	1805.4	1803.8	1856.6	1951.4	2035.3	2085.1	2046.2	2043.1	2035.3	2001.1
10°	1427.8	1395.2	1389.0	1376.6	1406.1	1477.5	1538.1	1490.0	1455.8	1502.4	1488.4
12.5°	1166.8	1121.7	1096.9	1047.2	1048.8	1096.9	1096.9	1096.9	1131.0	1157.5	1177.7
15°	894.9	857.6	857.6	807.9	797.0	798.6	823.5	826.5	881.0	896.5	904.2
17.5°	626.2	606.0	629.2	649.4	637.0	640.1	649.4	652.6	660.3	654.1	669.6
20°	481.6	478.6	484.8	520.5	546.9	562.4	551.5	536.0	526.7	505.0	505.0
22.5°	408.6	414.8	425.7	455.2	489.4	498.7	486.3	450.5	422.6	419.5	421.0
25°	363.5	369.8	386.9	405.5	424.2	439.7	427.3	400.8	385.3	371.3	371.3
27.5°	335.6	338.7	348.0	362.0	377.6	389.9	385.3	371.3	354.2	348.0	334.0
30°	313.8	318.5	329.4	332.5	346.5	352.7	344.9	341.8	330.9	323.1	318.5
32.5°	302.9	301.4	309.2	312.3	313.8	318.5	309.2	313.8	312.3	299.9	295.2
35°	228.4	240.9	261.1	278.1	282.7	289.0	287.4	281.3	264.1	250.2	233.0
37.5°	205.1	212.8	223.7	237.7	256.4	264.1	261.1	245.5	225.3	216.0	212.8
40°	189.6	194.2	203.5	212.8	231.5	245.5	234.6	220.6	205.1	197.3	192.6
42.5°	175.5	177.1	181.8	191.1	205.1	226.8	208.2	189.6	183.3	178.7	175.5
45°	160.0	160.0	166.2	170.9	186.4	206.6	188.0	170.9	167.8	164.7	163.1
47.5°	147.6	149.2	152.3	158.5	170.9	184.9	172.5	158.5	150.7	149.2	146.0
50°	132.1	133.6	139.8	146.0	161.6	169.4	161.6	146.0	138.3	133.6	133.6
52°	119.6	124.3	130.5	143.0	153.8	166.2	156.9	139.8	130.5	125.8	122.8
52.5°	118.1	121.2	127.4	141.4	153.8	164.7	155.3	138.3	127.4	124.3	121.2
55°	105.6	110.3	121.2	138.3	152.3	164.7	152.3	136.7	121.2	113.5	110.3
57.5°	101.0	104.1	118.1	139.8	150.7	164.7	152.3	136.7	121.2	107.2	104.1
60°	96.3	102.6	118.1	135.1	149.2	166.2	153.8	135.1	118.1	101.0	101.0
62.5°	91.7	96.3	116.5	132.1	143.0	160.0	147.6	132.1	113.5	96.3	94.7
65°	79.2	87.0	102.6	110.3	122.8	138.3	125.8	114.9	99.4	85.4	83.9
67.5°	60.6	63.7	76.1	85.4	93.3	107.2	101.0	87.0	76.1	65.2	65.2
70°	42.0	45.0	54.3	59.0	66.8	74.5	69.9	59.0	51.3	45.0	43.5
72.5°	29.5	31.1	34.2	37.3	40.4	43.5	42.0	34.2	29.5	28.0	26.4
75°	23.3	26.4	28.0	26.4	24.8	23.3	23.3	20.2	17.1	15.5	15.5
77.5°	23.3	24.8	23.3	20.2	17.1	15.5	14.0	12.4	9.3	7.8	9.3
80°	20.2	20.2	20.2	17.1	15.5	14.0	12.4	10.9	9.3	7.8	7.8
82.5°	21.8	21.8	20.2	17.1	17.1	14.0	14.0	12.4	10.9	7.8	7.8
85°	0.0	0.0	0.0	3.1	7.8	14.0	14.0	12.4	10.9	9.3	9.3
87.5°	0.0	0.0	0.0	0.0	1.6	3.1	6.2	7.8	9.3	9.3	9.3
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°	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2
2.5°	3430.5	3489.5	3601.4	3713.3	3781.7	3862.5	4008.5	4086.2	4187.2	4236.9	4334.8
5°	2764.0	2903.8	2953.6	3080.9	3217.7	3354.4	3571.9	3811.2	4010.1	4146.8	4323.9
7.5°	2016.7	2049.3	2242.0	2327.4	2551.2	2799.7	3096.5	3397.9	3649.6	3873.3	4008.5
10°	1511.7	1631.4	1752.5	1915.7	2095.9	2352.3	2636.6	2969.1	3295.3	3519.0	3690.0
12.5°	1215.0	1309.7	1471.3	1646.9	1869.1	2038.4	2324.3	2653.7	3076.3	3295.3	3520.6
15°	919.8	1041.0	1224.3	1406.1	1640.7	1819.4	2108.3	2523.1	3066.9	3368.4	3562.6
17.5°	682.1	764.4	929.1	1132.6	1371.9	1623.6	2013.6	2509.2	3171.1	3529.9	3730.4
20°	522.0	550.0	654.1	835.9	1095.3	1424.7	1859.8	2569.8	3478.7	3923.1	4126.6
22.5°	422.6	435.0	475.4	601.3	853.0	1250.7	1786.7	2611.7	3825.1	4393.8	4665.7
25°	368.2	365.1	391.5	445.9	666.5	1087.6	1693.5	2770.2	4249.3	4946.9	5190.8
27.5°	335.6	335.6	348.0	386.9	553.1	982.0	1634.4	2883.6	4676.5	5433.2	5565.3
30°	318.5	321.6	357.4	369.8	459.9	856.1	1536.6	2998.6	5085.2	5743.9	5925.7
32.5°	295.2	282.7	275.0	306.1	386.9	742.7	1438.7	3046.7	5416.1	6124.6	6280.0
35°	226.8	220.6	230.0	253.2	332.5	646.4	1329.9	3101.1	5796.8	6565.8	6596.9
37.5°	205.1	203.5	209.8	230.0	279.7	562.4	1252.3	3087.1	6087.3	6931.0	6847.0
40°	189.6	189.6	194.2	211.3	250.2	503.4	1171.4	3074.7	6368.5	7341.1	7095.6
42.5°	177.1	177.1	184.9	195.8	237.7	464.6	1110.8	3057.6	6604.7	7592.8	7241.7
45°	160.0	164.7	177.1	188.0	240.9	438.2	1065.8	2992.4	6685.5	7589.7	7171.7
47.5°	147.6	153.8	166.2	181.8	217.5	430.3	1034.7	2934.9	6657.5	7403.3	6952.7
50°	133.6	141.4	158.5	184.9	184.9	414.8	1002.1	2986.1	6637.3	7258.8	6743.0
52°	124.3	130.5	152.3	180.2	161.6	382.2	982.0	3085.6	6719.6	7240.1	6649.7
52.5°	122.8	127.4	147.6	177.1	153.8	376.0	967.9	3108.9	6746.1	7193.5	6713.4
55°	108.8	114.9	135.1	138.3	125.8	309.2	922.9	3161.8	6615.6	7101.9	6652.8
57.5°	102.6	105.6	119.6	113.5	108.8	233.0	794.0	3079.4	5876.0	6307.9	6189.8
60°	94.7	97.9	111.9	88.6	91.7	163.1	596.6	2673.9	4718.5	5256.1	5468.9
62.5°	91.7	90.1	105.6	71.5	77.7	118.1	421.0	2173.6	3635.6	4327.0	4695.2
65°	80.8	79.2	76.1	60.6	66.8	91.7	251.7	1418.5	2562.0	3273.6	3475.6
67.5°	62.2	65.2	55.9	48.2	55.9	71.5	139.8	635.5	1343.9	1963.8	2127.0
70°	43.5	46.6	45.0	42.0	49.7	59.0	80.8	217.5	556.2	1031.6	1137.3
72.5°	26.4	32.7	34.2	35.7	43.5	51.3	57.5	69.9	147.6	365.1	453.7
75°	15.5	21.8	26.4	31.1	35.7	43.5	48.2	49.7	51.3	68.4	110.3
77.5°	10.9	15.5	23.3	29.5	35.7	43.5	51.3	54.3	51.3	48.2	51.3
80°	9.3	15.5	21.8	28.0	37.3	45.0	51.3	51.3	49.7	43.5	46.6
82.5°	9.3	15.5	23.3	29.5	35.7	43.5	49.7	51.3	46.6	43.5	45.0
85°	10.9	17.1	24.8	31.1	38.8	35.7	32.7	26.4	24.8	20.2	21.8
87.5°	10.9	15.5	15.5	17.1	18.6	18.6	18.6	17.1	14.0	12.4	12.4
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-SA4A-835-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2	3971.2
2.5°	4339.4	4463.7	4459.0	4462.2	4443.5	4317.7	4257.1	4103.2	4146.8	4128.1
5°	4505.7	4628.4	4734.0	4721.6	4578.7	4407.7	4154.5	3915.2	3850.0	3753.7
7.5°	4339.4	4634.6	4732.5	4718.5	4507.2	4288.2	3884.1	3644.9	3531.5	3467.8
10°	4075.3	4417.1	4538.3	4563.2	4420.2	4087.7	3716.4	3332.6	3272.1	3161.8
12.5°	3924.6	4173.2	4247.8	4314.6	4264.8	4016.2	3589.0	3220.8	3136.9	3063.9
15°	3801.9	3949.5	3980.5	4056.6	4086.2	3952.6	3655.8	3341.9	3135.3	3127.5
17.5°	3915.2	3854.6	3741.3	3764.6	3857.8	3954.1	3828.2	3581.2	3380.8	3355.9
20°	4103.2	3836.0	3579.6	3637.2	3714.9	4010.1	4089.3	3915.2	3800.3	3736.6
22.5°	4319.2	3868.6	3528.4	3556.4	3704.0	4135.9	4511.9	4415.6	4201.1	4109.5
25°	4718.5	3958.8	3568.8	3587.5	3789.4	4311.4	4894.1	4965.6	4838.2	4819.5
27.5°	5108.4	4191.8	3657.3	3615.4	3832.9	4482.4	5125.6	5509.3	5285.6	5242.1
30°	5307.3	4381.4	3789.4	3717.9	4013.1	4586.4	5265.4	5863.6	5667.8	5647.6
32.5°	5611.8	4553.8	3892.0	3800.3	4114.1	4715.4	5526.4	6250.5	6060.9	5959.9
35°	5739.3	4741.8	4117.2	4010.1	4403.1	4895.6	5660.1	6595.4	6536.3	6438.5
37.5°	5984.8	4943.8	4382.9	4376.7	4752.7	5130.2	5900.8	7064.5	7053.7	6884.4
40°	6005.0	5164.4	4802.4	4998.2	5293.4	5538.9	6112.2	7195.1	7372.2	7257.2
42.5°	6036.0	5551.3	5528.0	5689.6	5942.8	5890.0	6119.9	7226.2	7496.5	7428.1
45°	6050.0	5938.1	6266.0	6564.3	6669.9	6349.9	6046.9	7167.1	7561.7	7390.8
47.5°	5938.1	6270.7	6862.6	7439.0	7470.1	6632.6	6015.9	7106.5	7600.6	7487.1
50°	5953.7	6478.9	7378.4	7894.2	7780.8	6882.8	5967.6	7069.2	7580.4	7504.3
52°	5916.4	6483.5	7451.4	7884.9	7805.6	6744.5	5885.3	6926.3	7561.7	7616.1
52.5°	5958.3	6455.5	7375.3	7891.2	7788.6	6812.9	5874.5	7005.5	7572.6	7462.3
55°	5813.9	6123.1	6929.4	7148.5	7132.9	6183.7	5540.4	6743.0	7288.3	7289.8
57.5°	5254.6	5307.3	5434.7	5430.1	5358.6	4861.4	4738.7	6200.7	6497.5	6335.9
60°	4630.0	3885.7	3542.4	3402.5	3323.3	3242.5	4191.8	5672.4	5700.4	5632.0
62.5°	4000.7	2694.1	2237.3	2198.4	2217.1	2512.3	4051.9	5462.8	5295.0	5147.4
65°	3228.5	1963.8	1625.1	1573.9	1755.6	2074.2	3279.8	4188.7	3930.8	3808.0
67.5°	2027.6	1432.5	1098.5	1002.1	1221.2	1427.8	2155.0	2631.9	2343.0	2173.6
70°	1202.5	800.1	497.2	445.9	501.8	761.3	1207.2	1312.9	1086.0	999.0
72.5°	473.9	293.6	138.3	118.1	122.8	267.2	444.4	433.5	327.8	292.1
75°	127.4	88.6	48.2	38.8	32.7	49.7	71.5	46.6	17.1	21.8
77.5°	59.0	52.9	42.0	32.7	24.8	18.6	9.3	3.1	3.1	1.6
80°	51.3	45.0	38.8	32.7	24.8	15.5	7.8	1.6	1.6	1.6
82.5°	48.2	42.0	35.7	29.5	23.3	15.5	7.8	1.6	0.0	0.0
85°	20.2	26.4	29.5	28.0	24.8	15.5	7.8	1.6	0.0	0.0
87.5°	10.9	9.3	7.8	6.2	4.7	3.1	3.1	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)