

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: P459020

Luminaire Tested: **GALN-SA5B-735-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19064 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

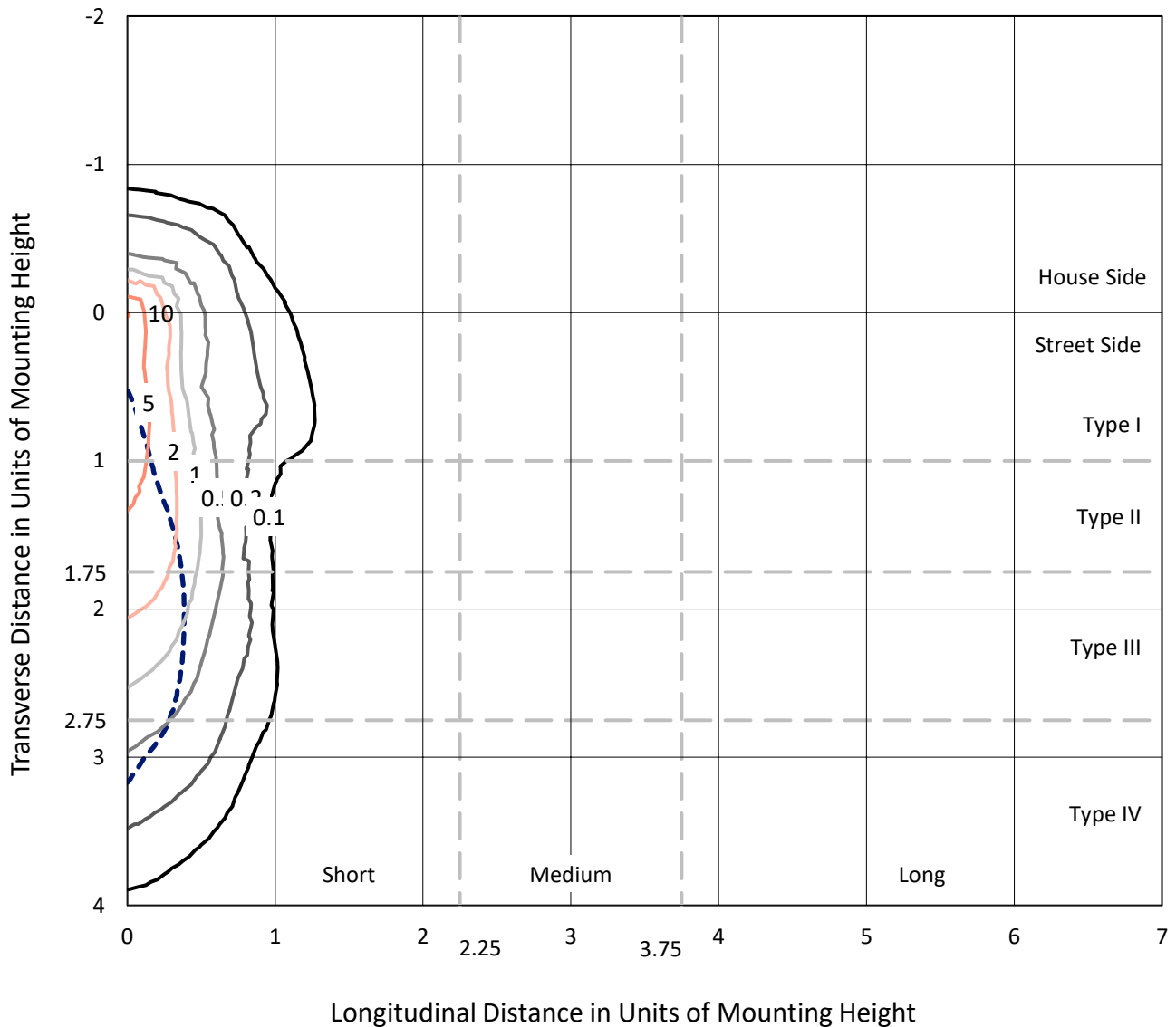
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

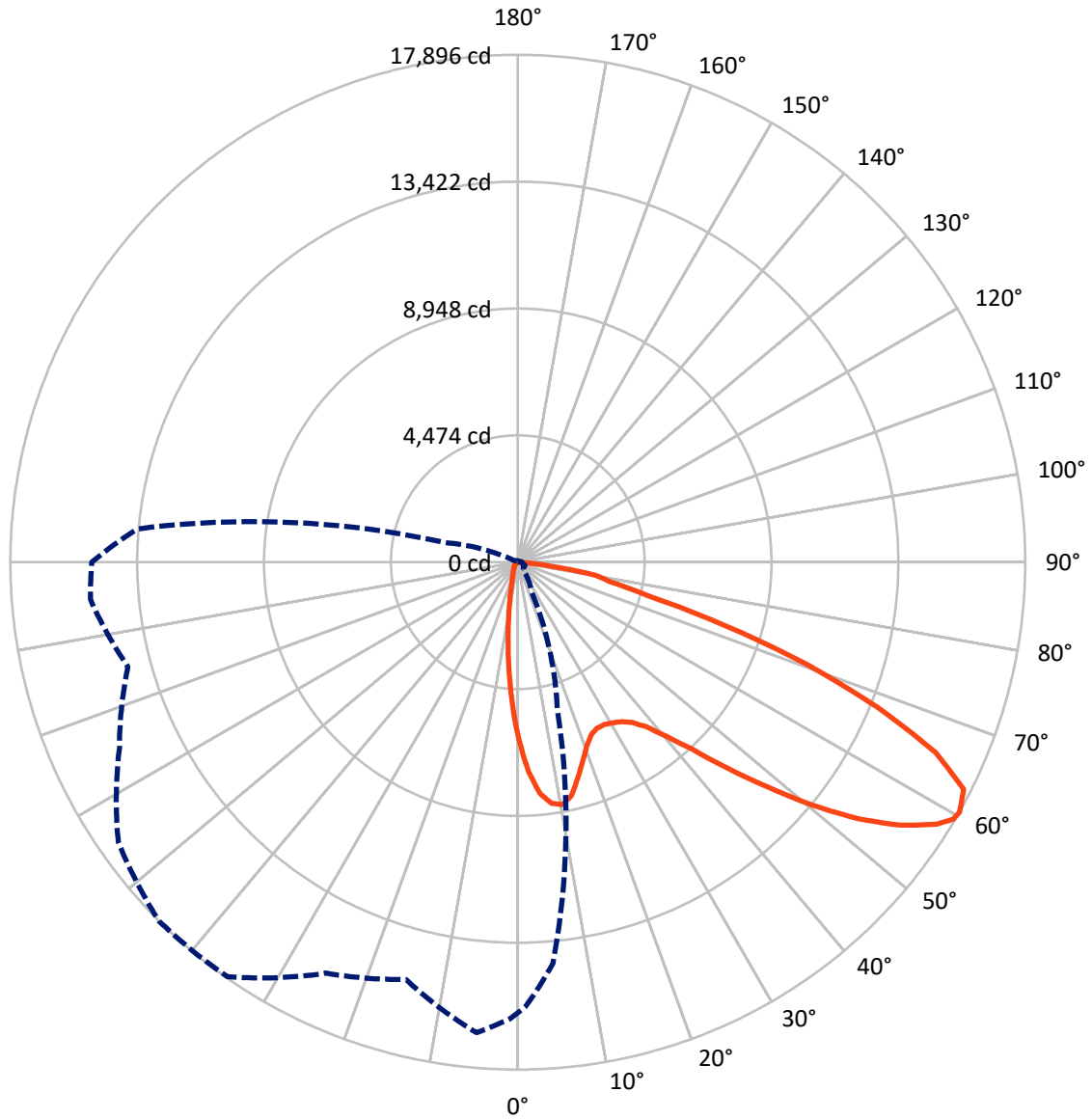
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2351.3	0.0	2351.3
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	16712.6	0.0	16712.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	19064.0	0.0	19064.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.6	2.5
10°-20°	930.7	4.9
20°-30°	1364.7	7.2
30°-40°	2029.5	10.6
40°-50°	2953.6	15.5
50°-60°	4259.3	22.3
60°-70°	4684.8	24.6
70°-80°	2098.4	11.0
80°-90°	274.2	1.4
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°	19064.0	100.0
0°-180°	19064.0	100.0

Coefficient of Utilization



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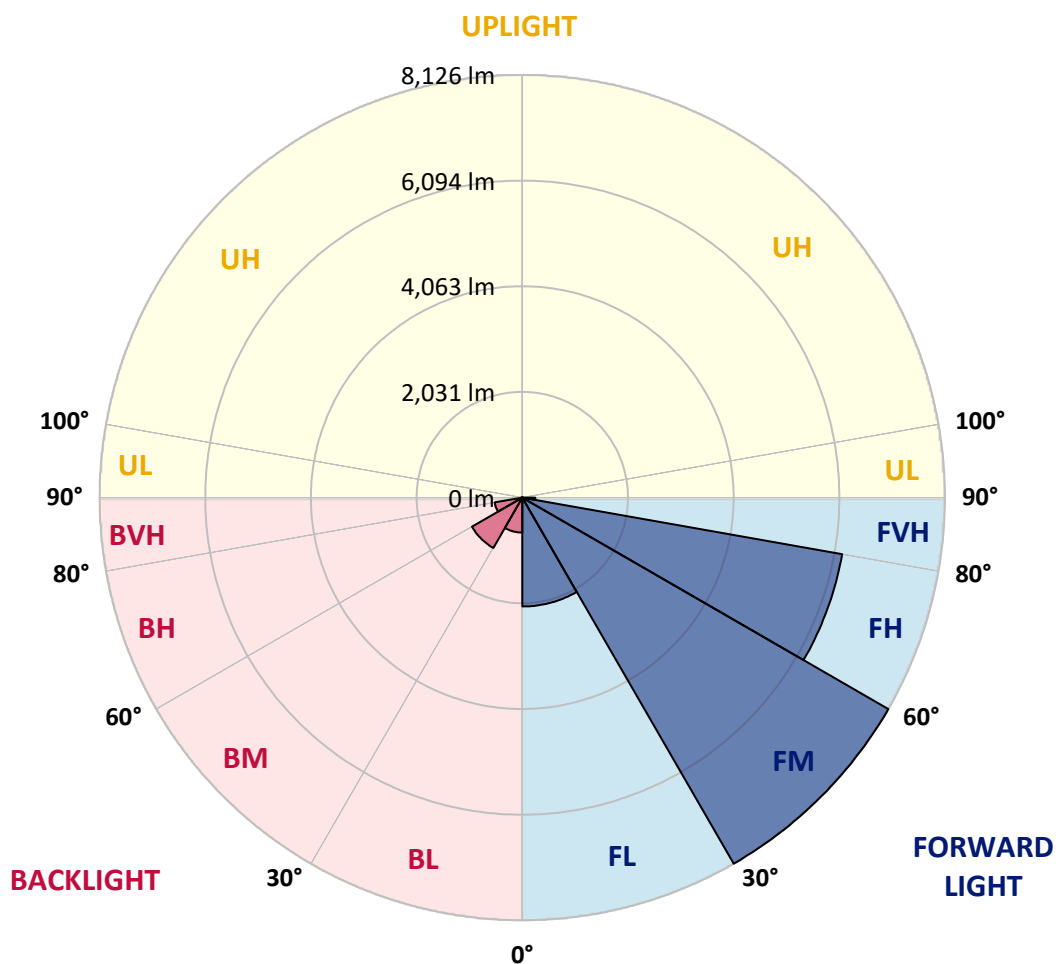
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2092.2	11.0			
FM (30°-60°)	8125.7	42.6			
FH (60°-80°)	6244.0	32.8			G3/7500
FVH (80°-90°)	250.7	1.3			G3/500
BL (0°-30°)	671.9	3.5	B2/1000		
BM (30°-60°)	1116.8	5.9	B2/2500		
BH (60°-80°)	539.2	2.8	B2/1000		G2/1000
BVH (80°-90°)	23.4	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6300.9	6300.9	6300.9	6300.9	6300.9	6300.9	6300.9	6300.9	6300.9	6300.9	6300.9
2.5°	6927.0	6896.5	6827.0	6615.4	6431.3	6190.8	5947.3	5756.0	5638.7	5422.7	5324.2
5°	6711.0	6725.5	6524.1	6089.3	5605.3	5274.9	4914.1	4627.2	4311.2	4111.3	3901.1
7.5°	6147.3	6118.3	5899.5	5293.8	4705.4	4227.2	3770.7	3399.7	3166.4	2979.5	2823.0
10°	5664.7	5643.0	5363.3	4583.7	3951.8	3593.9	3285.2	2960.6	2709.9	2436.0	2217.2
12.5°	5361.9	5312.6	4990.9	4176.5	3662.0	3328.7	2992.5	2654.9	2308.5	2031.7	1766.5
15°	5260.4	5189.4	4831.5	4035.9	3476.5	3053.4	2631.7	2243.3	1844.8	1539.0	1339.0
17.5°	5444.5	5327.1	4946.0	4011.3	3254.8	2694.0	2175.2	1669.4	1255.0	1021.7	898.5
20°	5866.2	5731.4	5235.8	3986.6	3008.4	2291.1	1653.5	1179.6	868.0	740.5	672.4
22.5°	6492.2	6306.7	5664.7	4025.8	2780.9	1898.4	1194.1	833.3	689.8	610.1	562.3
25°	7244.3	7089.3	6208.2	4164.9	2601.2	1589.7	923.1	681.1	581.1	531.8	495.6
27.5°	8068.9	7821.1	6911.0	4331.5	2437.5	1350.6	810.1	608.6	517.3	472.4	453.6
30°	8655.8	8463.1	7499.4	4447.5	2233.1	1170.9	740.5	600.0	518.8	465.2	430.4
32.5°	9235.5	8989.1	7992.1	4501.1	2083.9	1046.3	640.5	523.1	455.0	427.5	392.7
35°	9855.7	9597.8	8483.4	4472.1	1972.3	963.7	581.1	466.6	389.8	343.4	308.7
37.5°	10483.2	10210.7	8971.7	4367.8	1902.7	930.4	534.7	443.4	368.1	320.3	282.6
40°	11228.1	10864.3	9429.6	4282.3	1830.3	913.0	504.3	428.9	352.1	301.4	263.7
42.5°	11836.7	11490.3	9862.9	4237.3	1781.0	872.4	504.3	417.4	342.0	285.5	246.4
45°	12413.5	12054.1	10331.0	4273.6	1760.7	821.7	510.1	415.9	334.8	273.9	234.8
47.5°	12896.0	12584.5	10812.1	4409.8	1734.6	766.6	479.7	436.2	330.4	263.7	223.2
50°	13465.5	13164.1	11448.3	4685.1	1688.3	711.5	442.0	469.5	329.0	255.1	213.0
52.5°	14268.4	13942.3	12326.5	4998.1	1614.4	627.5	407.2	465.2	323.2	240.6	202.9
55°	15249.5	14985.7	13343.8	5373.5	1512.9	533.3	352.1	413.0	305.8	215.9	185.5
57.5°	15878.4	15653.8	14106.1	5535.8	1357.9	436.2	310.1	346.3	279.7	192.7	165.2
59°	15952.3	15749.4	14265.5	5482.2	1256.4	398.5	289.8	297.1	272.4	179.7	153.6
60°	15890.0	15679.9	14201.7	5377.8	1162.2	372.4	272.4	263.7	273.9	172.4	144.9
62.5°	15490.0	15130.6	13582.9	4848.9	1015.9	342.0	242.0	215.9	242.0	155.1	129.0
65°	14717.6	14178.5	12358.4	4104.0	957.9	324.6	205.8	181.1	184.0	136.2	111.6
67.5°	13368.5	12688.8	10728.1	3334.5	933.3	326.1	173.9	162.3	142.0	115.9	98.5
70°	11235.3	10557.1	8608.0	2743.2	921.7	326.1	147.8	139.1	118.8	97.1	85.5
72.5°	7961.7	7231.3	5806.8	2154.9	830.4	324.6	126.1	126.1	97.1	81.2	69.6
75°	4498.2	4504.0	3650.4	1524.5	689.8	268.1	101.4	100.0	71.0	62.3	52.2
77.5°	2621.5	2575.1	2460.7	655.0	320.3	121.7	71.0	60.9	49.3	44.9	37.7
80°	1347.7	1108.6	1079.6	237.7	114.5	76.8	49.3	34.8	31.9	29.0	26.1
82.5°	398.5	400.0	356.5	95.6	63.8	50.7	24.6	18.8	17.4	15.9	15.9
85°	27.5	17.4	20.3	29.0	39.1	20.3	1.4	4.3	4.3	5.8	7.2
87.5°	2.9	1.4	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°	6300.9	6300.9	6300.9	6300.9	6300.9	6300.9	6300.9	6300.9	6300.9	6300.9	6300.9
2.5°	5215.5	5279.3	5160.4	5163.3	5064.8	5096.7	4980.7	5018.4	4950.3	5002.5	5156.1
5°	3924.3	3938.8	3843.2	3812.7	3827.2	3886.6	3909.8	3804.0	3849.0	3760.6	3754.8
7.5°	2765.0	2782.4	2727.3	2720.1	2824.4	2799.8	2844.7	2736.0	2633.1	2678.0	2595.4
10°	2147.6	2075.2	1962.2	1930.3	1910.0	1923.0	1923.0	1824.5	1810.0	1770.9	1830.3
12.5°	1695.5	1607.1	1499.9	1355.0	1318.7	1315.8	1262.2	1175.3	1147.7	1114.4	1163.7
15°	1231.8	1195.6	1105.7	1024.6	942.0	926.0	839.1	768.1	673.9	660.8	656.5
17.5°	866.6	813.0	811.5	765.2	717.3	685.5	604.3	523.1	486.9	482.6	482.6
20°	649.2	630.4	600.0	594.2	579.7	543.4	471.0	427.5	410.1	411.6	417.4
22.5°	546.3	533.3	505.8	492.7	486.9	455.0	401.4	372.4	363.7	363.7	365.2
25°	488.4	476.8	446.3	426.1	418.8	395.6	353.6	331.9	324.6	324.6	324.6
27.5°	444.9	430.4	398.5	381.1	368.1	342.0	315.9	294.2	286.9	286.9	288.4
30°	414.5	398.5	369.5	346.3	326.1	302.9	281.1	262.3	253.6	252.2	253.6
32.5°	373.9	359.4	330.4	315.9	292.7	265.2	247.8	230.4	221.7	223.2	221.7
35°	291.3	286.9	266.6	271.0	257.9	234.8	218.8	200.0	189.8	188.4	191.3
37.5°	265.2	247.8	224.6	226.1	221.7	213.0	186.9	166.7	159.4	159.4	160.9
40°	244.9	227.5	201.4	188.4	189.8	189.8	162.3	140.6	133.3	131.9	134.8
42.5°	227.5	210.1	181.1	159.4	153.6	160.9	137.7	115.9	108.7	105.8	108.7
45°	215.9	197.1	163.8	139.1	121.7	130.4	113.0	95.6	86.9	86.9	85.5
47.5°	204.3	186.9	150.7	120.3	101.4	97.1	92.7	76.8	68.1	66.7	68.1
50°	194.2	176.8	136.2	104.3	85.5	75.4	75.4	60.9	55.1	52.2	53.6
52.5°	184.0	165.2	123.2	92.7	73.9	60.9	53.6	49.3	44.9	43.5	44.9
55°	169.6	150.7	110.1	79.7	63.8	50.7	42.0	40.6	37.7	34.8	37.7
57.5°	152.2	134.8	97.1	68.1	50.7	39.1	34.8	33.3	30.4	29.0	29.0
59°	142.0	126.1	89.8	59.4	44.9	34.8	31.9	30.4	27.5	24.6	26.1
60°	136.2	123.2	85.5	55.1	40.6	31.9	29.0	27.5	24.6	23.2	24.6
62.5°	120.3	110.1	75.4	44.9	31.9	23.2	20.3	21.7	20.3	18.8	20.3
65°	105.8	97.1	63.8	34.8	24.6	15.9	14.5	18.8	17.4	15.9	17.4
67.5°	94.2	84.1	53.6	26.1	17.4	8.7	10.1	15.9	15.9	14.5	15.9
70°	81.2	72.5	43.5	18.8	8.7	4.3	7.2	11.6	14.5	13.0	14.5
72.5°	66.7	56.5	33.3	13.0	4.3	0.0	4.3	10.1	14.5	13.0	14.5
75°	52.2	42.0	24.6	7.2	0.0	0.0	1.4	8.7	14.5	13.0	14.5
77.5°	37.7	30.4	14.5	1.4	0.0	0.0	1.4	8.7	14.5	13.0	14.5
80°	24.6	21.7	5.8	0.0	0.0	0.0	1.4	8.7	14.5	14.5	15.9
82.5°	15.9	11.6	0.0	0.0	0.0	0.0	2.9	11.6	15.9	17.4	17.4
85°	7.2	0.0	0.0	0.0	0.0	0.0	5.8	14.5	18.8	18.8	18.8
87.5°	0.0	0.0	0.0	0.0	0.0	2.9	10.1	17.4	21.7	21.7	21.7
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°	6300.9	6300.9	6300.9	6300.9	6300.9	6300.9	6300.9	6300.9	6300.9	6300.9	6300.9
2.5°	5182.2	5273.5	5402.4	5601.0	5761.8	6015.4	6209.6	6474.8	6742.9	6824.1	6950.1
5°	3814.2	3931.6	4224.3	4490.9	4659.0	5195.2	5534.3	6069.1	6548.7	6779.1	7029.8
7.5°	2649.1	2788.2	3011.3	3383.8	3737.4	4173.6	4721.3	5332.9	6035.7	6364.7	6718.3
10°	1859.3	2033.2	2347.6	2653.4	3098.3	3512.8	4053.3	4728.6	5503.9	5892.3	6335.7
12.5°	1173.8	1328.9	1744.8	2088.2	2643.3	3124.4	3622.9	4234.4	5132.9	5531.4	5996.6
15°	671.0	801.4	995.6	1436.1	2052.0	2688.2	3309.9	4020.0	4943.1	5434.3	5937.2
17.5°	500.0	534.7	621.7	870.9	1431.8	2175.2	3021.5	3954.7	5072.0	5648.8	6222.7
20°	420.3	443.4	484.0	582.6	913.0	1675.2	2740.4	3966.3	5489.4	6214.0	6758.9
22.5°	376.8	391.3	424.6	488.4	623.1	1220.2	2411.4	4034.4	5995.2	6908.1	7537.1
25°	330.4	349.2	378.2	433.3	518.8	846.3	2086.8	4186.6	6703.8	7789.2	8380.5
27.5°	294.2	311.6	340.6	391.3	455.0	646.3	1708.6	4317.0	7451.6	8676.1	9160.1
30°	257.9	275.3	304.3	344.9	402.9	523.1	1301.3	4393.8	8177.6	9341.3	9713.7
32.5°	227.5	242.0	269.5	305.8	353.6	443.4	1026.0	4314.1	8732.6	9945.5	10194.8
35°	197.1	214.5	237.7	271.0	313.0	378.2	853.6	4038.8	9209.4	10567.2	10657.1
37.5°	165.2	185.5	210.1	240.6	273.9	347.8	685.5	3734.5	9719.5	11342.5	11194.7
40°	139.1	158.0	181.1	214.5	244.9	318.8	527.5	3409.9	10270.2	12070.0	11781.6
42.5°	113.0	133.3	160.9	191.3	242.0	278.2	408.7	3073.7	10764.3	12703.3	12312.0
45°	89.8	107.2	136.2	175.3	240.6	239.1	315.9	2741.8	11136.8	13155.4	12707.6
47.5°	71.0	85.5	114.5	171.0	221.7	202.9	253.6	2536.0	11528.0	13562.6	13010.5
50°	56.5	71.0	98.5	178.2	194.2	173.9	213.0	2569.4	11906.3	13769.9	13135.1
52.5°	47.8	62.3	85.5	140.6	149.3	152.2	186.9	2723.0	12394.6	13991.6	13382.9
55°	42.0	55.1	72.5	98.5	115.9	136.2	171.0	2834.5	13048.2	14466.9	13929.3
57.5°	33.3	47.8	65.2	84.1	95.6	118.8	158.0	2843.2	13639.4	15077.0	14655.3
59°	30.4	43.5	60.9	79.7	85.5	107.2	149.3	2769.3	13661.2	15168.3	14988.6
60°	27.5	42.0	58.0	73.9	81.2	101.4	142.0	2683.8	13464.1	15023.4	15126.3
62.5°	23.2	36.2	50.7	59.4	69.6	84.1	123.2	2373.7	12509.1	14366.9	14871.2
65°	20.3	31.9	43.5	49.3	58.0	72.5	108.7	1899.8	11454.1	13477.1	14140.9
67.5°	18.8	29.0	37.7	42.0	50.7	66.7	97.1	1341.9	10087.6	12348.2	13043.8
70°	17.4	27.5	33.3	39.1	44.9	56.5	82.6	782.5	7770.4	10368.7	11103.4
72.5°	17.4	26.1	29.0	33.3	39.1	50.7	76.8	423.2	5312.6	7909.5	8858.7
75°	17.4	24.6	26.1	29.0	34.8	46.4	68.1	221.7	3434.5	5495.2	6782.0
77.5°	17.4	23.2	26.1	27.5	33.3	40.6	59.4	139.1	2288.2	3849.0	4583.7
80°	18.8	23.2	24.6	27.5	31.9	37.7	49.3	92.7	1344.8	2315.7	2789.6
82.5°	20.3	23.2	26.1	29.0	33.3	36.2	43.5	58.0	620.2	1531.8	1733.2
85°	21.7	24.6	27.5	30.4	34.8	36.2	40.6	42.0	101.4	691.2	934.7
87.5°	23.2	26.1	29.0	31.9	37.7	37.7	37.7	37.7	34.8	73.9	188.4
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-SA5B-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6300.9	6300.9	6300.9	6300.9	6300.9	6300.9	6300.9	6300.9	6300.9	6300.9
2.5°	7109.6	7273.3	7387.8	7416.8	7334.2	7296.5	7192.2	7029.8	6931.3	6927.0
5°	7492.1	7876.2	8142.8	8187.7	8028.3	7758.8	7438.5	7025.5	6783.5	6711.0
7.5°	7426.9	8099.3	8528.3	8590.6	8322.5	7808.0	7187.8	6522.6	6258.9	6147.3
10°	7158.8	7979.0	8592.0	8690.6	8332.6	7608.1	6819.7	6077.8	5750.2	5664.7
12.5°	6929.9	7758.8	8303.7	8439.9	8168.9	7445.8	6599.5	5792.3	5441.6	5361.9
15°	6829.9	7497.9	7831.2	7900.8	7855.9	7344.3	6576.3	5748.8	5347.4	5260.4
17.5°	6929.9	7276.2	7318.2	7389.2	7489.2	7334.2	6799.4	5985.0	5551.7	5444.5
20°	7192.2	7083.5	6909.6	6940.0	7169.0	7376.2	7196.5	6508.2	5980.7	5866.2
22.5°	7638.5	7035.6	6641.5	6615.4	6905.2	7516.8	7779.1	7216.8	6605.2	6492.2
25°	8186.3	7155.9	6542.9	6486.4	6802.3	7722.5	8412.3	8084.8	7416.8	7244.3
27.5°	8783.3	7405.2	6542.9	6487.9	6793.6	7905.1	8954.3	8852.9	8257.3	8068.9
30°	9110.8	7611.0	6637.1	6574.8	6900.9	8010.9	9244.2	9535.4	8889.1	8655.8
32.5°	9403.6	7896.4	6821.2	6703.8	7125.5	8167.4	9503.6	10115.1	9392.0	9235.5
35°	9673.1	8202.2	7074.8	6938.6	7421.1	8381.9	9790.5	10723.7	10091.9	9855.7
37.5°	9970.2	8557.3	7470.4	7354.5	7915.3	8799.3	10131.0	11523.7	10780.3	10483.2
40°	10293.3	8968.8	8121.1	8071.8	8700.7	9271.7	10561.4	12377.2	11565.7	11228.1
42.5°	10622.3	9442.7	8918.1	8999.3	9590.5	9934.0	11003.4	13033.7	12209.1	11836.7
45°	10920.8	10048.4	9954.2	10355.7	10628.1	10580.3	11330.9	13496.0	12770.0	12413.5
47.5°	11297.6	10931.0	11207.8	11826.6	11833.8	11283.1	11578.7	13874.2	13252.5	12896.0
50°	11719.3	11972.9	12826.5	13456.9	13287.3	11974.4	11868.6	14322.0	13751.0	13465.5
52.5°	12207.7	13139.5	14322.0	15021.9	14626.3	12727.9	12351.1	14806.0	14542.3	14268.4
55°	12775.7	13935.1	15813.2	16371.1	15972.6	13664.1	13084.4	15462.5	15436.4	15249.5
57.5°	13417.7	14775.6	16676.9	17431.9	17076.8	14762.5	14109.0	16081.3	15982.7	15878.4
59°	13924.9	15207.4	17058.0	17840.5	17626.1	15532.0	14797.3	16466.7	16108.8	15952.3
60°	14232.1	15500.2	17198.6	17895.6	17846.3	15990.0	15233.5	16655.1	16107.4	15890.0
62.5°	15143.7	16011.7	17144.9	17650.7	17843.4	16868.2	16513.1	16862.4	15808.8	15490.0
65°	15468.3	15842.2	16256.6	16194.3	16359.5	16823.2	17330.4	16634.8	15171.2	14717.6
67.5°	14836.4	13982.9	14129.3	13713.4	13632.2	14956.7	16998.6	15521.9	13923.5	13368.5
70°	12506.2	10712.2	10638.2	10829.5	10304.9	12109.1	15263.9	13378.6	11864.2	11235.3
72.5°	9844.1	7570.4	6947.2	7651.5	7635.6	9238.4	12680.1	9493.4	8015.3	7961.7
75°	7741.4	5270.6	4625.7	4740.2	4960.5	6687.8	10099.2	6028.5	4935.8	4498.2
77.5°	5196.7	3734.5	3483.8	3343.2	3580.9	4293.8	6389.3	3269.3	2767.9	2621.5
80°	2995.4	2712.8	3080.9	2796.9	2924.4	2705.6	3178.0	1499.9	1244.8	1347.7
82.5°	1949.1	1544.8	1646.2	1223.1	1672.3	1686.8	1020.2	443.4	375.3	398.5
85°	1218.7	724.6	407.2	289.8	576.8	1060.8	318.8	27.5	31.9	27.5
87.5°	315.9	120.3	50.7	75.4	92.7	82.6	73.9	4.3	1.4	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)