

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: P454322

Luminaire Tested: **GALN-SA5B-830-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454322
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-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 16262 lumens
Efficiency: N/A
Efficacy: 79.7 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 (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

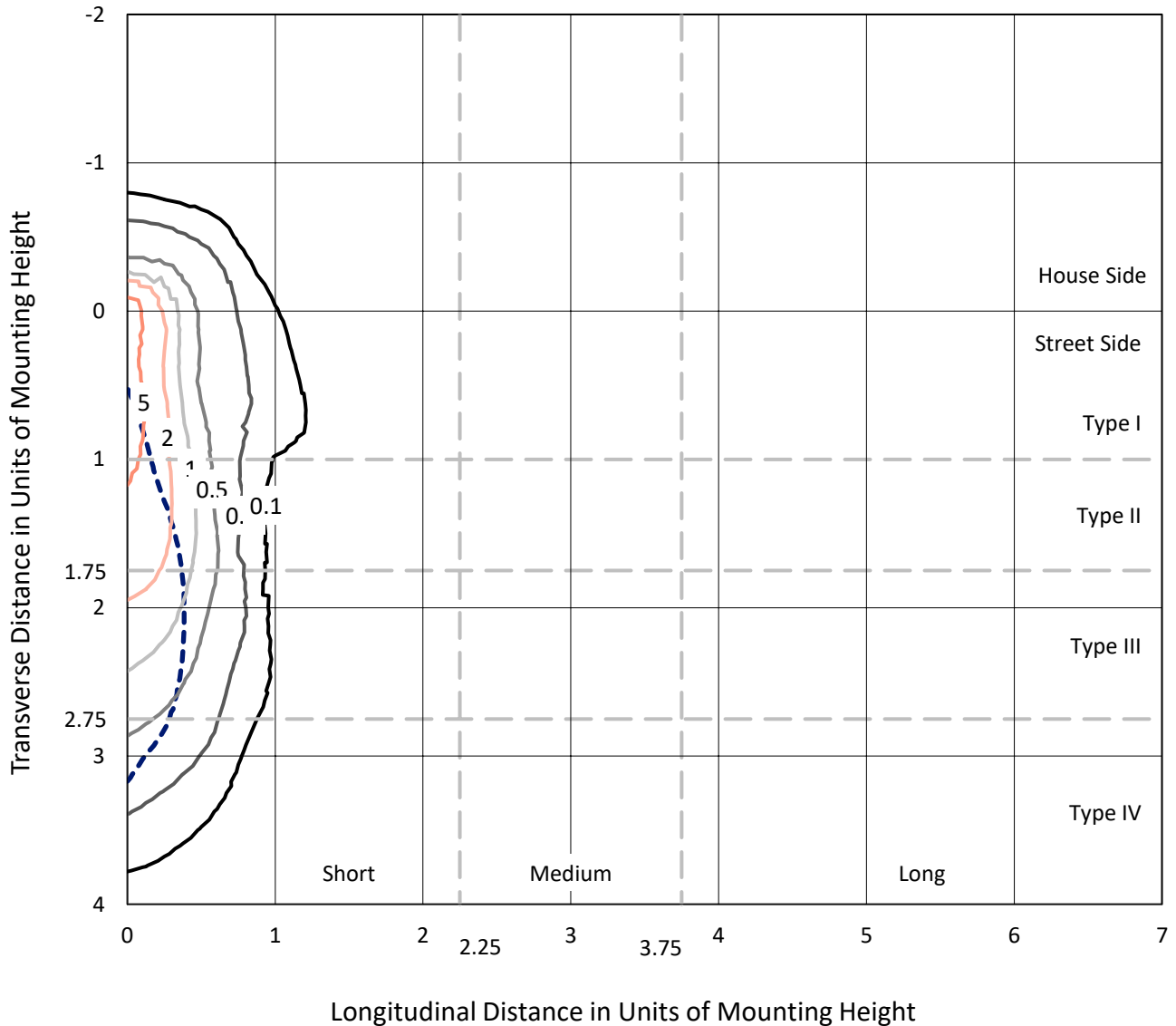




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Iso-Footcandle Lines of Horizontal Illumination

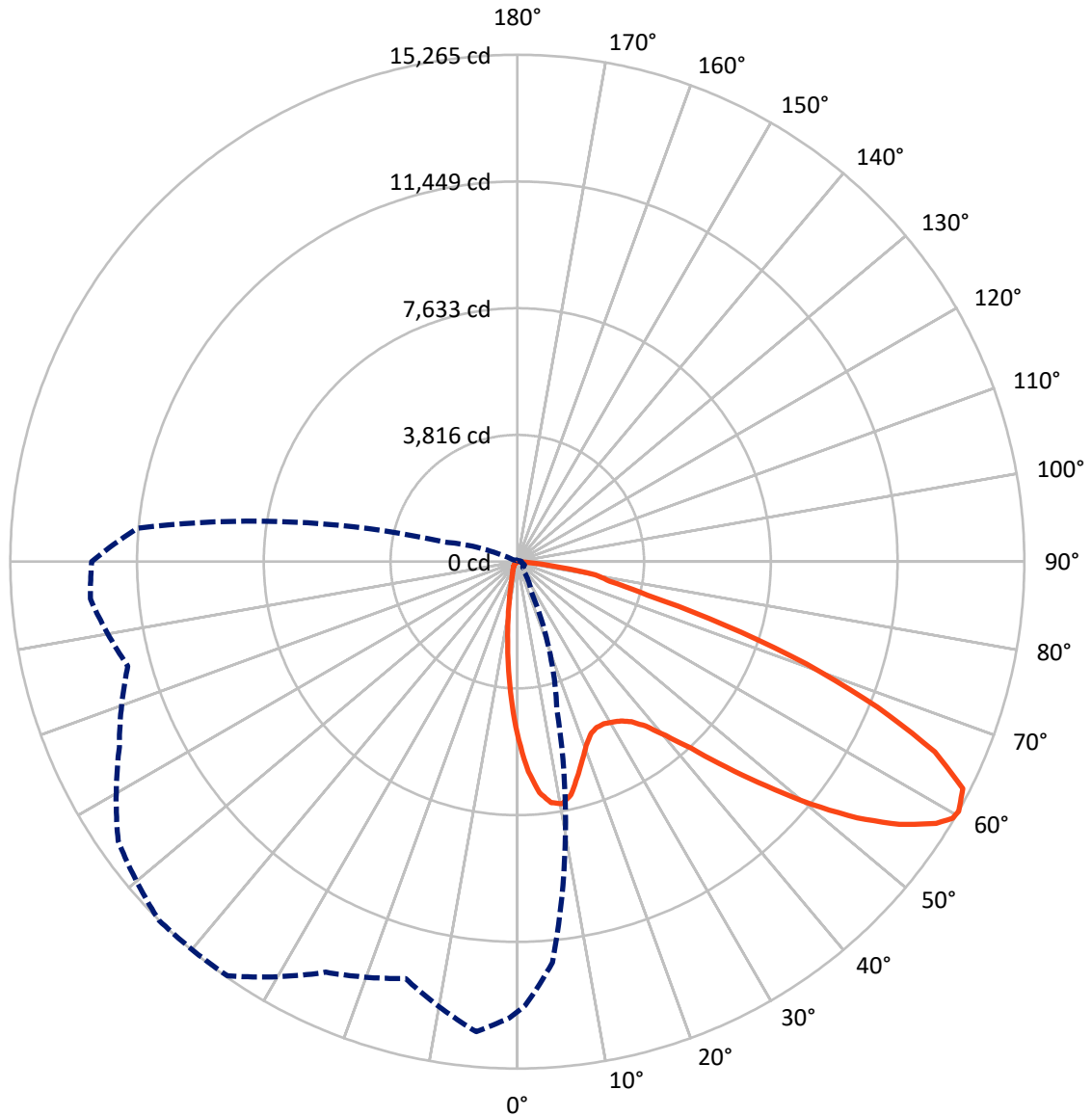
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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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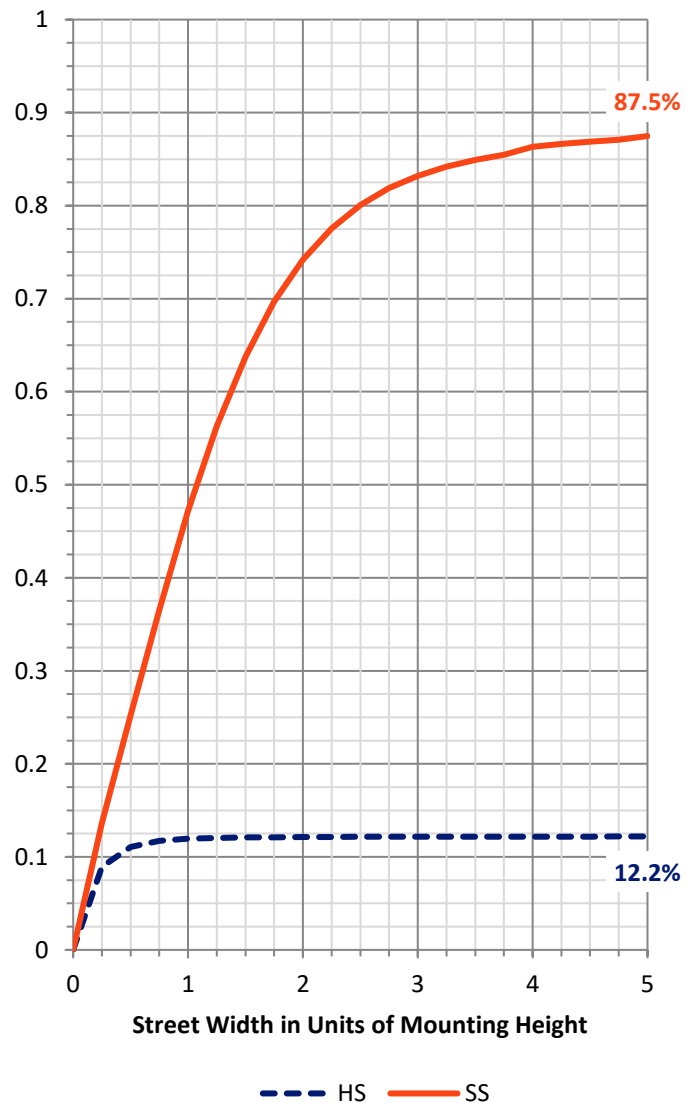
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2005.8	0.0	2005.8
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	14256.2	0.0	14256.2
	% Fixture	87.7	0.0	87.7
Total	Lumens	16262.0	0.0	16262.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.8	2.5
10°-20°	793.9	4.9
20°-30°	1164.1	7.2
30°-40°	1731.2	10.6
40°-50°	2519.5	15.5
50°-60°	3633.3	22.3
60°-70°	3996.3	24.6
70°-80°	1790.0	11.0
80°-90°	233.9	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°	16262.0	100.0
0°-180°	16262.0	100.0



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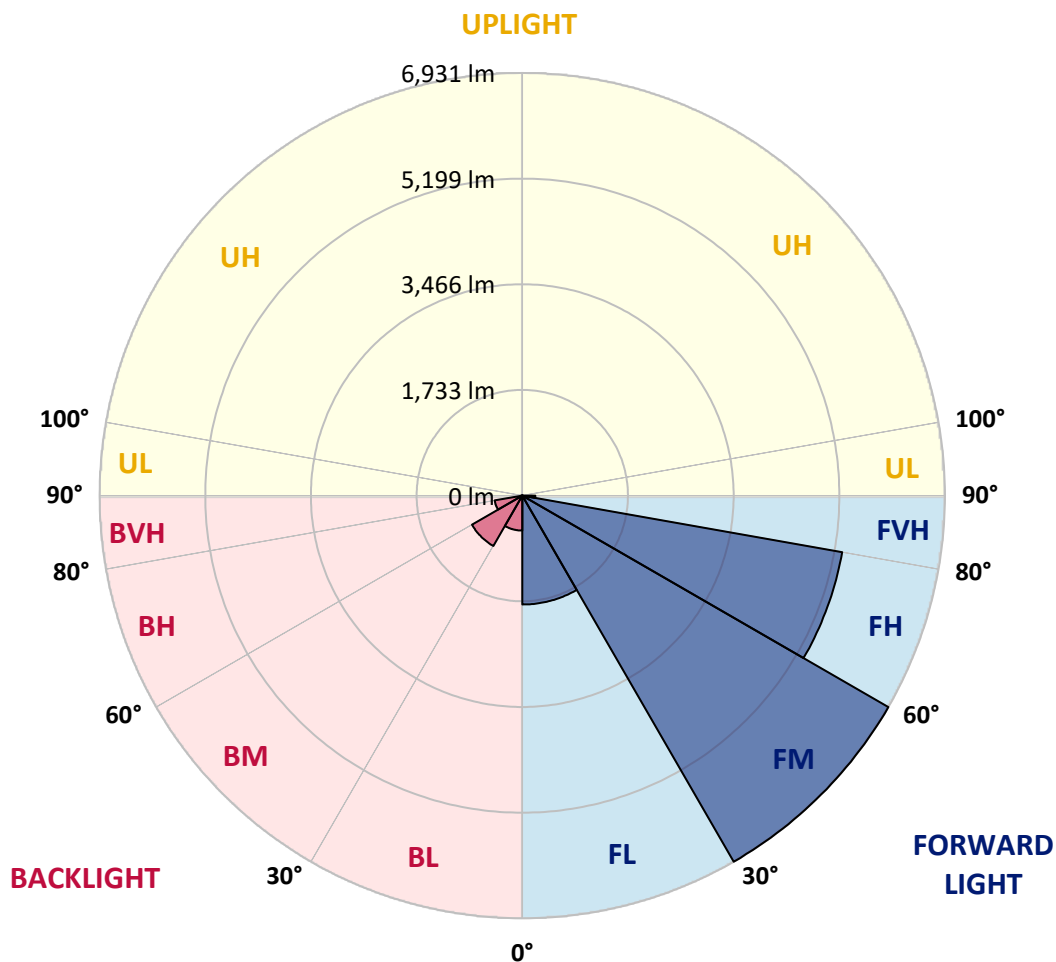
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1784.7	11.0			
FM (30°-60°)	6931.4	42.6			
FH (60°-80°)	5326.3	32.8			G3/7500
FVH (80°-90°)	213.9	1.3			G2/225
BL (0°-30°)	573.1	3.5	B2/1000		
BM (30°-60°)	952.7	5.9	B1/1000		
BH (60°-80°)	460.0	2.8	B1/500		G1/500
BVH (80°-90°)	20.0	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°	5374.8	5374.8	5374.8	5374.8	5374.8	5374.8	5374.8	5374.8	5374.8	5374.8	5374.8
2.5°	5908.8	5882.9	5823.5	5643.1	5486.1	5280.9	5073.2	4910.0	4809.9	4625.7	4541.7
5°	5724.7	5737.0	5565.2	5194.3	4781.5	4499.6	4191.8	3947.1	3677.6	3507.0	3327.7
7.5°	5243.8	5219.1	5032.4	4515.7	4013.8	3605.9	3216.5	2900.0	2701.0	2541.5	2408.0
10°	4832.1	4813.6	4575.0	3910.0	3371.0	3065.7	2802.4	2525.5	2311.6	2078.0	1891.3
12.5°	4573.8	4531.8	4257.3	3562.6	3123.8	2839.5	2552.7	2264.6	1969.2	1733.1	1506.9
15°	4487.3	4426.7	4121.4	3442.7	2965.5	2604.6	2244.9	1913.6	1573.6	1312.8	1142.2
17.5°	4644.3	4544.1	4219.0	3421.7	2776.4	2298.0	1855.5	1424.1	1070.5	871.5	766.4
20°	5004.0	4889.0	4466.2	3400.7	2566.3	1954.4	1410.5	1006.2	740.5	631.7	573.6
22.5°	5538.0	5379.8	4832.1	3434.1	2372.2	1619.4	1018.6	710.8	588.4	520.4	479.6
25°	6179.6	6047.3	5295.7	3552.7	2218.9	1356.1	787.4	581.0	495.7	453.7	422.8
27.5°	6882.9	6671.6	5895.2	3694.9	2079.2	1152.1	691.0	519.2	441.3	403.0	386.9
30°	7383.6	7219.2	6397.1	3793.8	1904.9	998.8	631.7	511.8	442.5	396.8	367.1
32.5°	7878.0	7667.9	6817.4	3839.5	1777.6	892.5	546.4	446.3	388.2	364.7	335.0
35°	8407.1	8187.1	7236.5	3814.8	1682.4	822.0	495.7	398.0	332.5	293.0	263.3
37.5°	8942.4	8710.0	7653.1	3725.8	1623.1	793.6	456.1	378.3	314.0	273.2	241.1
40°	9577.8	9267.5	8043.7	3652.9	1561.3	778.8	430.2	365.9	300.4	257.1	225.0
42.5°	10097.0	9801.5	8413.3	3614.5	1519.2	744.2	430.2	356.0	291.7	243.5	210.1
45°	10588.9	10282.4	8812.6	3645.4	1501.9	700.9	435.1	354.8	285.6	233.6	200.3
47.5°	11000.6	10734.8	9223.0	3761.6	1479.7	653.9	409.2	372.1	281.8	225.0	190.4
50°	11486.4	11229.3	9765.7	3996.5	1440.1	607.0	377.0	400.5	280.6	217.6	181.7
52.5°	12171.2	11893.1	10514.8	4263.5	1377.1	535.3	347.4	396.8	275.7	205.2	173.1
55°	13008.1	12783.1	11382.6	4583.7	1290.6	454.9	300.4	352.3	260.8	184.2	158.2
57.5°	13544.6	13353.0	12032.8	4722.1	1158.3	372.1	264.5	295.4	238.6	164.4	140.9
59°	13607.6	13434.6	12168.8	4676.4	1071.8	339.9	247.2	253.4	232.4	153.3	131.0
60°	13554.5	13375.3	12114.4	4587.4	991.4	317.7	232.4	225.0	233.6	147.1	123.6
62.5°	13213.3	12906.7	11586.5	4136.2	866.5	291.7	206.4	184.2	206.4	132.3	110.0
65°	12554.4	12094.6	10542.0	3500.8	817.1	276.9	175.5	154.5	157.0	116.2	95.2
67.5°	11403.6	10823.8	9151.3	2844.4	796.1	278.1	148.3	138.4	121.1	98.9	84.1
70°	9583.9	9005.4	7342.8	2340.1	786.2	278.1	126.1	118.7	101.4	82.8	72.9
72.5°	6791.5	6168.4	4953.3	1838.2	708.3	276.9	107.5	107.5	82.8	69.2	59.3
75°	3837.0	3842.0	3113.9	1300.4	588.4	228.7	86.5	85.3	60.6	53.2	44.5
77.5°	2236.2	2196.7	2099.0	558.7	273.2	103.8	60.6	51.9	42.0	38.3	32.1
80°	1149.6	945.7	920.9	202.7	97.7	65.5	42.0	29.7	27.2	24.7	22.3
82.5°	339.9	341.2	304.1	81.6	54.4	43.3	21.0	16.1	14.8	13.6	13.6
85°	23.5	14.8	17.3	24.7	33.4	17.3	1.2	3.7	3.7	4.9	6.2
87.5°	2.5	1.2	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°	5374.8	5374.8	5374.8	5374.8	5374.8	5374.8	5374.8	5374.8	5374.8	5374.8	5374.8
2.5°	4448.9	4503.3	4402.0	4404.4	4320.4	4347.6	4248.7	4280.8	4222.7	4267.2	4398.3
5°	3347.5	3359.9	3278.3	3252.3	3264.7	3315.4	3335.2	3244.9	3283.2	3207.8	3202.9
7.5°	2358.6	2373.4	2326.5	2320.3	2409.3	2388.3	2426.6	2333.9	2246.1	2284.4	2214.0
10°	1832.0	1770.2	1673.8	1646.6	1629.3	1640.4	1640.4	1556.3	1544.0	1510.6	1561.3
12.5°	1446.3	1370.9	1279.4	1155.8	1124.9	1122.4	1076.7	1002.5	979.0	950.6	992.6
15°	1050.7	1019.8	943.2	874.0	803.5	789.9	715.7	655.2	574.8	563.7	560.0
17.5°	739.2	693.5	692.2	652.7	611.9	584.7	515.5	446.3	415.3	411.6	411.6
20°	553.8	537.7	511.8	506.8	494.5	463.6	401.8	364.7	349.8	351.1	356.0
22.5°	466.0	454.9	431.4	420.3	415.3	388.2	342.4	317.7	310.3	310.3	311.5
25°	416.6	406.7	380.7	363.4	357.3	337.5	301.6	283.1	276.9	276.9	276.9
27.5°	379.5	367.1	339.9	325.1	314.0	291.7	269.5	250.9	244.8	244.8	246.0
30°	353.5	339.9	315.2	295.4	278.1	258.4	239.8	223.7	216.3	215.1	216.3
32.5°	318.9	306.6	281.8	269.5	249.7	226.2	211.4	196.5	189.1	190.4	189.1
35°	248.5	244.8	227.5	231.2	220.0	200.3	186.7	170.6	161.9	160.7	163.2
37.5°	226.2	211.4	191.6	192.8	189.1	181.7	159.5	142.2	136.0	136.0	137.2
40°	208.9	194.1	171.8	160.7	161.9	161.9	138.4	119.9	113.7	112.5	115.0
42.5°	194.1	179.2	154.5	136.0	131.0	137.2	117.4	98.9	92.7	90.2	92.7
45°	184.2	168.1	139.7	118.7	103.8	111.3	96.4	81.6	74.2	74.2	72.9
47.5°	174.3	159.5	128.6	102.6	86.5	82.8	79.1	65.5	58.1	56.9	58.1
50°	165.6	150.8	116.2	89.0	72.9	64.3	64.3	51.9	47.0	44.5	45.7
52.5°	157.0	140.9	105.1	79.1	63.0	51.9	45.7	42.0	38.3	37.1	38.3
55°	144.6	128.6	93.9	68.0	54.4	43.3	35.8	34.6	32.1	29.7	32.1
57.5°	129.8	115.0	82.8	58.1	43.3	33.4	29.7	28.4	26.0	24.7	24.7
59°	121.1	107.5	76.6	50.7	38.3	29.7	27.2	26.0	23.5	21.0	22.3
60°	116.2	105.1	72.9	47.0	34.6	27.2	24.7	23.5	21.0	19.8	21.0
62.5°	102.6	93.9	64.3	38.3	27.2	19.8	17.3	18.5	17.3	16.1	17.3
65°	90.2	82.8	54.4	29.7	21.0	13.6	12.4	16.1	14.8	13.6	14.8
67.5°	80.4	71.7	45.7	22.3	14.8	7.4	8.7	13.6	13.6	12.4	13.6
70°	69.2	61.8	37.1	16.1	7.4	3.7	6.2	9.9	12.4	11.1	12.4
72.5°	56.9	48.2	28.4	11.1	3.7	0.0	3.7	8.7	12.4	11.1	12.4
75°	44.5	35.8	21.0	6.2	0.0	0.0	1.2	7.4	12.4	11.1	12.4
77.5°	32.1	26.0	12.4	1.2	0.0	0.0	1.2	7.4	12.4	11.1	12.4
80°	21.0	18.5	4.9	0.0	0.0	0.0	1.2	7.4	12.4	12.4	13.6
82.5°	13.6	9.9	0.0	0.0	0.0	0.0	2.5	9.9	13.6	14.8	14.8
85°	6.2	0.0	0.0	0.0	0.0	0.0	4.9	12.4	16.1	16.1	16.1
87.5°	0.0	0.0	0.0	0.0	0.0	2.5	8.7	14.8	18.5	18.5	18.5
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°	5374.8	5374.8	5374.8	5374.8	5374.8	5374.8	5374.8	5374.8	5374.8	5374.8	5374.8
2.5°	4420.5	4498.4	4608.4	4777.8	4915.0	5131.3	5296.9	5523.2	5751.9	5821.1	5928.6
5°	3253.6	3353.7	3603.4	3830.9	3974.3	4431.6	4720.9	5177.0	5586.2	5782.8	5996.6
7.5°	2259.7	2378.4	2568.7	2886.4	3188.1	3560.1	4027.4	4549.1	5148.6	5429.2	5730.8
10°	1586.0	1734.3	2002.6	2263.4	2642.9	2996.5	3457.5	4033.6	4694.9	5026.2	5404.5
12.5°	1001.3	1133.6	1488.3	1781.3	2254.8	2665.2	3090.4	3612.1	4378.5	4718.4	5115.2
15°	572.3	683.6	849.2	1225.0	1750.4	2293.1	2823.4	3429.1	4216.5	4635.6	5064.5
17.5°	426.5	456.1	530.3	742.9	1221.3	1855.5	2577.4	3373.5	4326.6	4818.6	5308.1
20°	358.5	378.3	412.9	496.9	778.8	1429.0	2337.6	3383.4	4682.6	5300.7	5765.4
22.5°	321.4	333.8	362.2	416.6	531.5	1040.8	2057.0	3441.5	5114.0	5892.8	6429.3
25°	281.8	297.9	322.6	369.6	442.5	721.9	1780.1	3571.3	5718.5	6644.4	7148.7
27.5°	250.9	265.8	290.5	333.8	388.2	551.3	1457.4	3682.5	6356.3	7400.9	7813.8
30°	220.0	234.9	259.6	294.2	343.7	446.3	1110.1	3748.0	6975.7	7968.3	8286.0
32.5°	194.1	206.4	229.9	260.8	301.6	378.3	875.2	3680.0	7449.1	8483.8	8696.4
35°	168.1	183.0	202.7	231.2	267.0	322.6	728.1	3445.2	7855.8	9014.1	9090.7
37.5°	140.9	158.2	179.2	205.2	233.6	296.7	584.7	3185.6	8290.9	9675.4	9549.3
40°	118.7	134.7	154.5	183.0	208.9	272.0	450.0	2908.7	8760.7	10296.0	10050.0
42.5°	96.4	113.7	137.2	163.2	206.4	237.3	348.6	2621.9	9182.2	10836.2	10502.4
45°	76.6	91.5	116.2	149.6	205.2	204.0	269.5	2338.8	9499.9	11221.9	10839.9
47.5°	60.6	72.9	97.7	145.9	189.1	173.1	216.3	2163.3	9833.7	11569.2	11098.2
50°	48.2	60.6	84.1	152.0	165.6	148.3	181.7	2191.7	10156.3	11746.0	11204.6
52.5°	40.8	53.2	72.9	119.9	127.3	129.8	159.5	2322.7	10572.9	11935.1	11415.9
55°	35.8	47.0	61.8	84.1	98.9	116.2	145.9	2417.9	11130.4	12340.6	11882.0
57.5°	28.4	40.8	55.6	71.7	81.6	101.4	134.7	2425.3	11634.7	12861.0	12501.3
59°	26.0	37.1	51.9	68.0	72.9	91.5	127.3	2362.3	11653.3	12938.9	12785.6
60°	23.5	35.8	49.4	63.0	69.2	86.5	121.1	2289.4	11485.2	12815.3	12903.0
62.5°	19.8	30.9	43.3	50.7	59.3	71.7	105.1	2024.8	10670.5	12255.3	12685.5
65°	17.3	27.2	37.1	42.0	49.4	61.8	92.7	1620.6	9770.6	11496.3	12062.4
67.5°	16.1	24.7	32.1	35.8	43.3	56.9	82.8	1144.7	8604.9	10533.3	11126.7
70°	14.8	23.5	28.4	33.4	38.3	48.2	70.5	667.5	6628.3	8844.7	9471.5
72.5°	14.8	22.3	24.7	28.4	33.4	43.3	65.5	361.0	4531.8	6747.0	7556.6
75°	14.8	21.0	22.3	24.7	29.7	39.6	58.1	189.1	2929.7	4687.5	5785.2
77.5°	14.8	19.8	22.3	23.5	28.4	34.6	50.7	118.7	1951.9	3283.2	3910.0
80°	16.1	19.8	21.0	23.5	27.2	32.1	42.0	79.1	1147.2	1975.4	2379.6
82.5°	17.3	19.8	22.3	24.7	28.4	30.9	37.1	49.4	529.1	1306.6	1478.4
85°	18.5	21.0	23.5	26.0	29.7	30.9	34.6	35.8	86.5	589.6	797.3
87.5°	19.8	22.3	24.7	27.2	32.1	32.1	32.1	32.1	29.7	63.0	160.7
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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CATALOG NUMBER: GALN-SA5B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5374.8	5374.8	5374.8	5374.8	5374.8	5374.8	5374.8	5374.8	5374.8	5374.8
2.5°	6064.6	6204.3	6301.9	6326.7	6256.2	6224.1	6135.1	5996.6	5912.6	5908.8
5°	6390.9	6718.5	6946.0	6984.3	6848.3	6618.4	6345.2	5992.9	5786.5	5724.7
7.5°	6335.3	6908.9	7274.8	7328.0	7099.3	6660.4	6131.4	5564.0	5339.0	5243.8
10°	6106.6	6806.3	7329.2	7413.3	7107.9	6489.8	5817.4	5184.5	4905.1	4832.1
12.5°	5911.3	6618.4	7083.2	7199.4	6968.2	6351.4	5629.5	4940.9	4641.8	4573.8
15°	5826.0	6395.9	6680.2	6739.5	6701.2	6264.9	5609.7	4903.8	4561.4	4487.3
17.5°	5911.3	6206.8	6242.6	6303.2	6388.5	6256.2	5800.1	5105.3	4735.7	4644.3
20°	6135.1	6042.3	5894.0	5920.0	6115.3	6292.1	6138.8	5551.6	5101.6	5004.0
22.5°	6515.8	6001.6	5665.3	5643.1	5890.3	6412.0	6635.7	6156.1	5634.4	5538.0
25°	6983.1	6104.2	5581.3	5533.1	5802.5	6587.5	7175.9	6896.5	6326.7	6179.6
27.5°	7492.4	6316.8	5581.3	5534.3	5795.1	6743.3	7638.2	7551.7	7043.6	6882.9
30°	7771.7	6492.3	5661.6	5608.5	5886.6	6833.5	7885.5	8133.9	7582.6	7383.6
32.5°	8021.4	6735.8	5818.6	5718.5	6078.2	6967.0	8106.7	8628.4	8011.6	7878.0
35°	8251.4	6996.7	6034.9	5918.7	6330.4	7149.9	8351.5	9147.6	8608.6	8407.1
37.5°	8504.8	7299.5	6372.4	6273.5	6751.9	7506.0	8642.0	9829.9	9195.8	8942.4
40°	8780.4	7650.6	6927.4	6885.4	7421.9	7909.0	9009.1	10558.0	9865.8	9577.8
42.5°	9061.1	8054.8	7607.3	7676.6	8180.9	8473.9	9386.2	11118.0	10414.6	10097.0
45°	9315.7	8571.5	8491.2	8833.6	9066.0	9025.2	9665.5	11512.4	10893.0	10588.9
47.5°	9637.1	9324.4	9560.5	10088.3	10094.5	9624.7	9876.9	11835.0	11304.7	11000.6
50°	9996.8	10213.2	10941.3	11479.0	11334.4	10214.4	10124.1	12217.0	11729.9	11486.4
52.5°	10413.4	11208.3	12217.0	12814.0	12476.6	10857.2	10535.8	12629.8	12404.9	12171.2
55°	10898.0	11886.9	13489.0	13964.9	13625.0	11655.8	11161.3	13189.8	13167.6	13008.1
57.5°	11445.6	12603.9	14225.7	14869.8	14566.9	12592.8	12035.3	13717.7	13633.6	13544.6
59°	11878.3	12972.3	14550.8	15218.4	15035.4	13249.2	12622.4	14046.5	13741.2	13607.6
60°	12140.3	13222.0	14670.7	15265.3	15223.3	13639.8	12994.5	14207.2	13739.9	13554.5
62.5°	12917.9	13658.3	14625.0	15056.4	15220.8	14388.9	14086.0	14384.0	13485.3	13213.3
65°	13194.8	13513.7	13867.2	13814.1	13955.0	14350.6	14783.2	14189.9	12941.4	12554.4
67.5°	12655.8	11927.7	12052.6	11697.8	11628.6	12758.4	14500.2	13240.5	11877.0	11403.6
70°	10668.1	9137.7	9074.7	9237.8	8790.3	10329.4	13020.5	11412.2	10120.4	9583.9
72.5°	8397.2	6457.7	5926.2	6526.9	6513.3	7880.5	10816.4	8098.1	6837.2	6791.5
75°	6603.6	4495.9	3945.8	4043.5	4231.4	5704.9	8614.8	5142.4	4210.4	3837.0
77.5°	4432.9	3185.6	2971.7	2851.8	3054.6	3662.7	5450.2	2788.8	2361.1	2236.2
80°	2555.1	2314.1	2628.1	2385.8	2494.6	2307.9	2710.9	1279.4	1061.9	1149.6
82.5°	1662.6	1317.7	1404.3	1043.3	1426.5	1438.9	870.3	378.3	320.2	339.9
85°	1039.6	618.1	347.4	247.2	492.0	904.9	272.0	23.5	27.2	23.5
87.5°	269.5	102.6	43.3	64.3	79.1	70.5	63.0	3.7	1.2	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)