

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: P528341

Luminaire Tested: **GALN-SA3B-830-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528341
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-SA3B-830-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA 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: 7462 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - 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



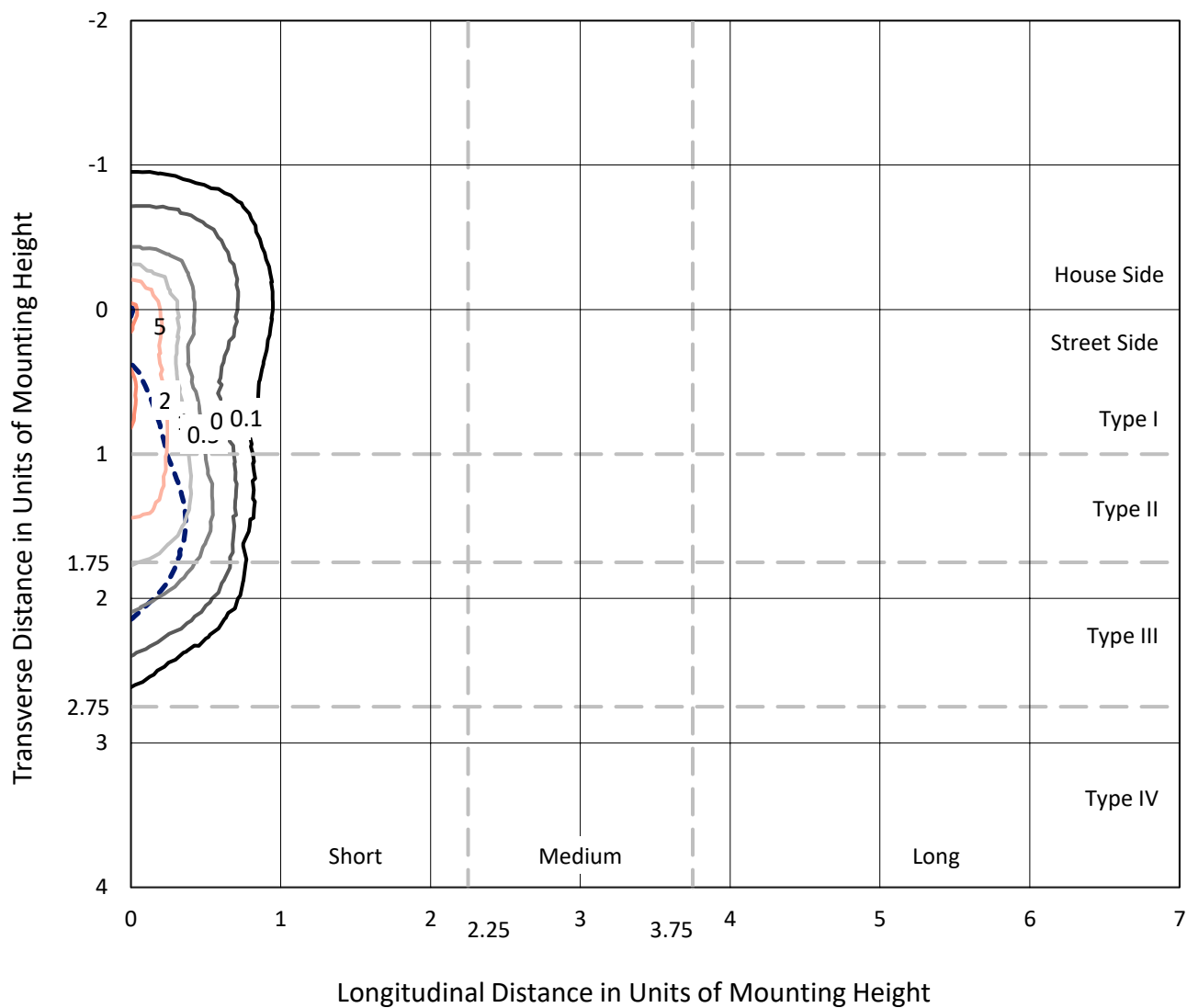
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



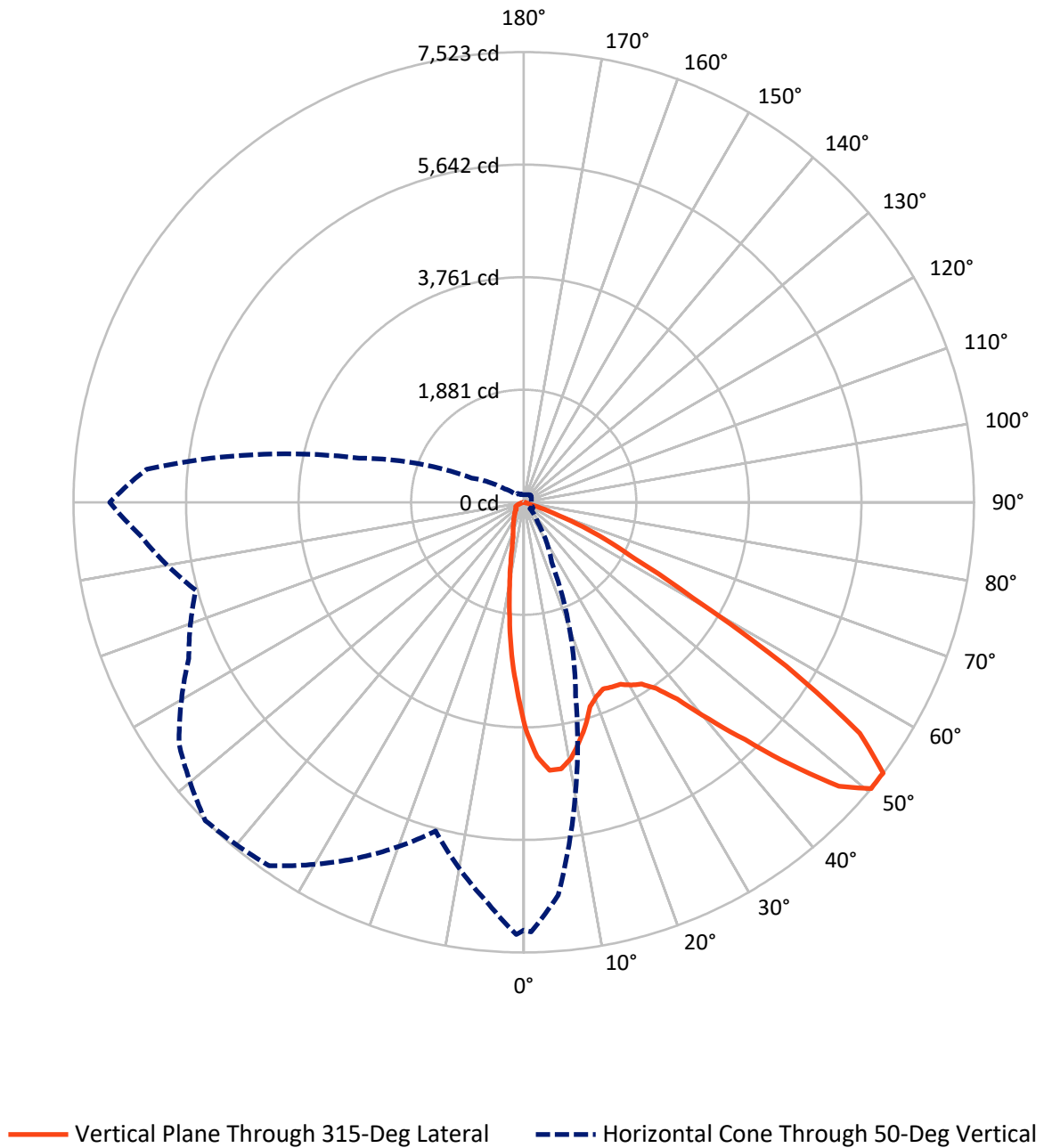
Based on 25 foot mounting height. Maximum calculated value = 6.1 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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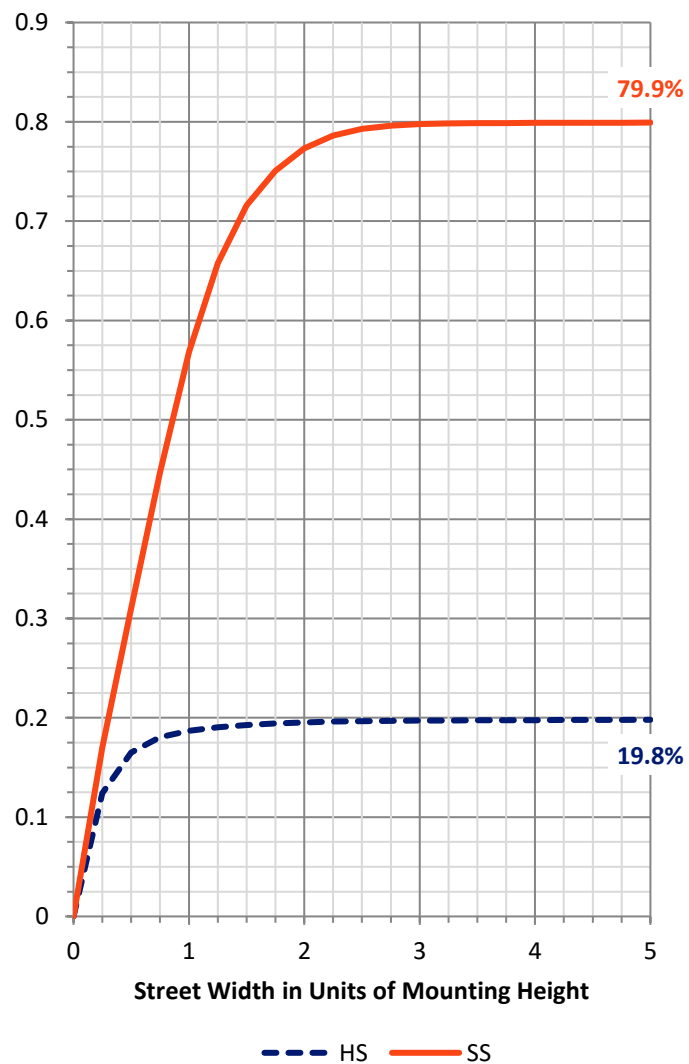
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1494.6	0.0	1494.6
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	5967.4	0.0	5967.4
	% Fixture	80.0	0.0	80.0
Total	Lumens	7462.0	0.0	7462.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.8	3.7
10°-20°	548.2	7.3
20°-30°	823.6	11.0
30°-40°	1236.1	16.6
40°-50°	1737.3	23.3
50°-60°	1874.0	25.1
60°-70°	870.1	11.7
70°-80°	81.9	1.1
80°-90°	15.1	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°	7462.0	100.0
0°-180°	7462.0	100.0

Coefficient of Utilization



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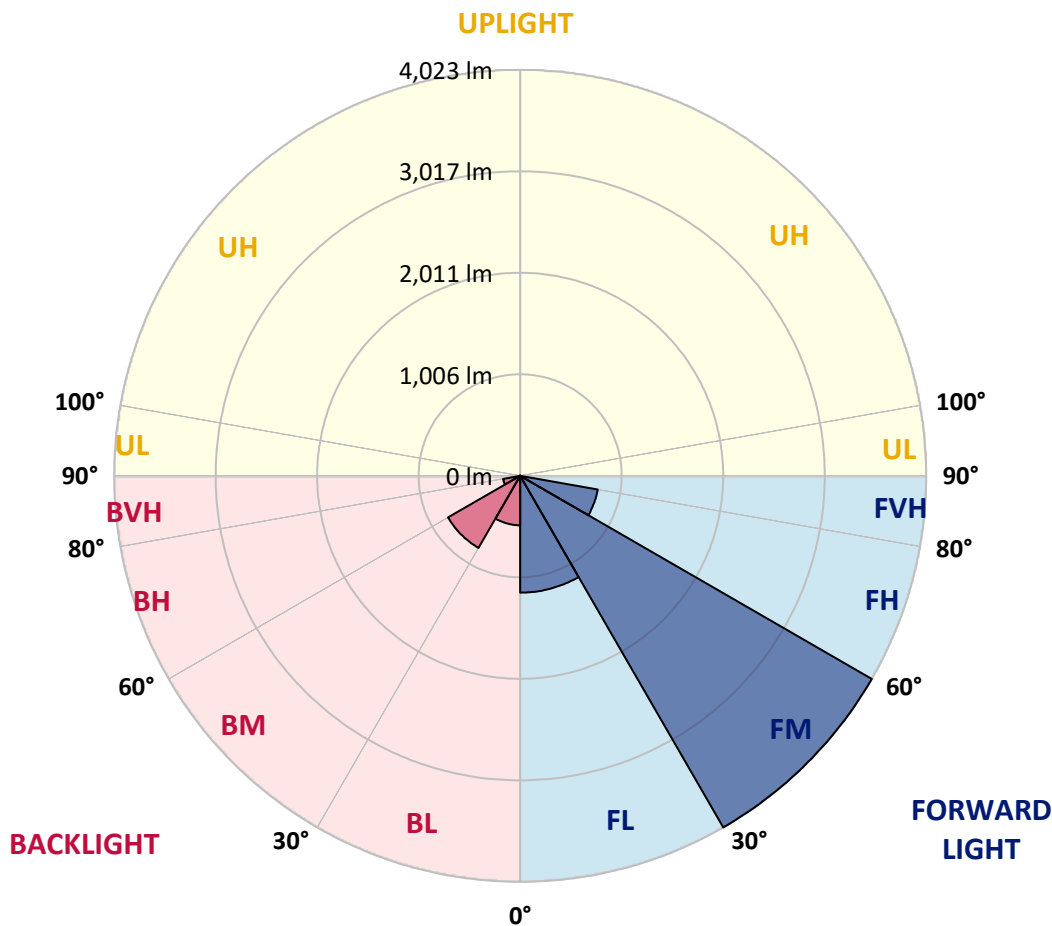
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1157.7	15.5			
FM	(30°-60°)	4022.6	53.9			
FH	(60°-80°)	780.3	10.5			G1/1800
FVH	(80°-90°)	6.8	0.1			G0/10
BL	(0°-30°)	489.9	6.6	B1/500		
BM	(30°-60°)	824.8	11.1	B1/1000		
BH	(60°-80°)	171.6	2.3	B1/500		G1/500
BVH	(80°-90°)	8.3	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3784.2	3784.2	3784.2	3784.2	3784.2	3784.2	3784.2	3784.2	3784.2	3784.2	3784.2
2.5°	3933.7	3873.0	3796.0	3732.4	3637.6	3446.6	3394.8	3332.6	3280.8	3211.2	3113.5
5°	3576.9	3557.7	3522.1	3282.3	3109.1	2878.1	2688.6	2608.7	2503.5	2417.7	2355.5
7.5°	3304.5	3227.5	3115.0	2873.7	2596.8	2349.6	2139.3	2016.4	1877.3	1829.9	1745.5
10°	3012.8	3030.6	2864.8	2525.7	2191.1	1991.3	1861.0	1742.6	1616.7	1533.8	1413.9
12.5°	2919.6	2861.8	2734.5	2315.5	2029.8	1843.2	1684.8	1538.2	1405.0	1271.8	1156.3
15°	2980.3	2891.4	2713.8	2271.1	1905.4	1673.0	1474.6	1276.2	1153.3	983.1	863.1
17.5°	3197.9	3126.8	2888.5	2318.5	1841.8	1510.1	1215.5	1011.2	823.2	669.2	608.5
20°	3560.6	3459.9	3160.9	2379.2	1747.0	1313.2	986.0	734.3	556.7	491.5	457.5
22.5°	3915.9	3861.2	3483.6	2496.1	1662.6	1138.5	740.3	494.5	416.0	404.2	382.0
25°	4592.5	4428.2	3976.6	2707.8	1597.5	974.2	558.2	398.3	352.4	343.5	346.4
27.5°	4995.2	4857.5	4432.6	2848.5	1524.9	848.3	472.3	365.7	334.6	315.3	307.9
30°	5381.6	5221.7	4659.2	2931.4	1369.5	715.1	419.0	350.9	343.5	315.3	306.5
32.5°	5679.2	5522.3	4986.3	3055.8	1305.8	629.2	345.0	273.9	254.6	251.7	278.3
35°	6135.2	5967.9	5266.2	3123.9	1257.0	584.8	299.1	244.3	222.1	213.2	214.7
37.5°	6560.1	6446.1	5525.3	3150.5	1205.1	571.5	268.0	219.1	199.9	193.9	192.5
40°	6915.4	6660.8	5771.0	3178.6	1182.9	546.3	248.7	199.9	186.5	177.7	177.7
42.5°	7078.3	6819.2	6046.4	3162.4	1177.0	506.3	248.7	183.6	173.2	164.3	162.9
45°	7042.8	6937.7	6169.3	3155.0	1177.0	466.4	226.5	179.1	164.3	152.5	149.5
47.5°	7134.6	6996.9	6323.2	3186.0	1153.3	438.2	191.0	188.0	155.5	140.6	137.7
50°	7150.8	7177.5	6591.2	3347.4	1101.5	402.7	149.5	185.1	149.5	127.3	124.4
52°	7257.4	7091.6	6672.6	3433.3	1046.7	376.0	125.8	158.4	143.6	118.4	115.5
52.5°	7110.9	7218.9	6691.9	3464.4	1052.6	358.3	121.4	155.5	140.6	118.4	111.0
55°	6946.5	7050.2	6613.4	3531.0	965.3	281.3	94.8	112.5	127.3	103.6	99.2
57.5°	6037.5	6142.6	5747.3	3233.4	786.1	198.4	78.5	84.4	112.5	96.2	91.8
60°	5366.8	5291.3	4823.5	2697.5	558.2	111.0	62.2	65.1	122.9	88.8	87.3
62.5°	4904.9	4743.5	4031.4	2083.1	340.5	74.0	48.9	50.3	94.8	82.9	82.9
65°	3628.7	3448.1	2678.2	1259.9	167.3	51.8	37.0	40.0	59.2	71.1	71.1
67.5°	2071.2	2001.6	1294.0	568.5	69.6	32.6	28.1	31.1	45.9	57.7	54.8
70°	952.0	854.3	497.5	119.9	32.6	22.2	22.2	25.2	37.0	42.9	40.0
72.5°	278.3	263.5	121.4	19.2	13.3	13.3	14.8	19.2	28.1	32.6	29.6
75°	20.7	13.3	8.9	5.9	5.9	8.9	11.8	19.2	28.1	31.1	25.2
77.5°	1.5	3.0	1.5	1.5	4.4	8.9	13.3	23.7	37.0	38.5	28.1
80°	1.5	1.5	0.0	1.5	4.4	8.9	14.8	26.6	41.5	44.4	23.7
82.5°	0.0	0.0	0.0	1.5	5.9	11.8	17.8	28.1	38.5	47.4	25.2
85°	0.0	0.0	0.0	1.5	8.9	16.3	20.7	7.4	4.4	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°	3784.2	3784.2	3784.2	3784.2	3784.2	3784.2	3784.2	3784.2	3784.2	3784.2	3784.2
2.5°	3183.1	3144.6	3129.8	3143.1	3138.7	3134.2	3215.7	3197.9	3194.9	3221.6	3215.7
5°	2389.5	2321.4	2508.0	2432.5	2510.9	2558.3	2567.2	2571.6	2626.4	2568.7	2644.2
7.5°	1702.6	1720.3	1718.9	1769.2	1859.5	1939.5	1986.8	1949.8	1946.9	1939.5	1906.9
10°	1360.6	1329.5	1323.6	1311.7	1339.9	1408.0	1465.7	1419.8	1387.2	1431.6	1418.3
12.5°	1111.9	1068.9	1045.2	997.9	999.3	1045.2	1045.2	1045.2	1077.8	1103.0	1122.2
15°	852.8	817.2	817.2	769.9	759.5	761.0	784.7	787.6	839.4	854.3	861.7
17.5°	596.6	577.4	599.6	618.9	607.0	610.0	618.9	621.8	629.2	623.3	638.1
20°	459.0	456.0	461.9	496.0	521.1	535.9	525.6	510.8	501.9	481.2	481.2
22.5°	389.4	395.3	405.7	433.8	466.4	475.2	463.4	429.3	402.7	399.7	401.2
25°	346.4	352.4	368.6	386.4	404.2	419.0	407.1	382.0	367.2	353.8	353.8
27.5°	319.8	322.8	331.6	345.0	359.8	371.6	367.2	353.8	337.6	331.6	318.3
30°	299.1	303.5	313.9	316.8	330.2	336.1	328.7	325.7	315.3	307.9	303.5
32.5°	288.7	287.2	294.6	297.6	299.1	303.5	294.6	299.1	297.6	285.7	281.3
35°	217.6	229.5	248.7	265.0	269.5	275.4	273.9	268.0	251.7	238.4	222.1
37.5°	195.4	202.8	213.2	226.5	244.3	251.7	248.7	233.9	214.7	205.8	202.8
40°	180.6	185.1	193.9	202.8	220.6	233.9	223.6	210.2	195.4	188.0	183.6
42.5°	167.3	168.8	173.2	182.1	195.4	216.2	198.4	180.6	174.7	170.3	167.3
45°	152.5	152.5	158.4	162.9	177.7	196.9	179.1	162.9	159.9	156.9	155.5
47.5°	140.6	142.1	145.1	151.0	162.9	176.2	164.3	151.0	143.6	142.1	139.2
50°	125.8	127.3	133.2	139.2	154.0	161.4	154.0	139.2	131.8	127.3	127.3
52°	114.0	118.4	124.4	136.2	146.6	158.4	149.5	133.2	124.4	119.9	117.0
52.5°	112.5	115.5	121.4	134.7	146.6	156.9	148.1	131.8	121.4	118.4	115.5
55°	100.7	105.1	115.5	131.8	145.1	156.9	145.1	130.3	115.5	108.1	105.1
57.5°	96.2	99.2	112.5	133.2	143.6	156.9	145.1	130.3	115.5	102.2	99.2
60°	91.8	97.7	112.5	128.8	142.1	158.4	146.6	128.8	112.5	96.2	96.2
62.5°	87.3	91.8	111.0	125.8	136.2	152.5	140.6	125.8	108.1	91.8	90.3
65°	75.5	82.9	97.7	105.1	117.0	131.8	119.9	109.6	94.8	81.4	79.9
67.5°	57.7	60.7	72.5	81.4	88.8	102.2	96.2	82.9	72.5	62.2	62.2
70°	40.0	42.9	51.8	56.3	63.7	71.1	66.6	56.3	48.9	42.9	41.5
72.5°	28.1	29.6	32.6	35.5	38.5	41.5	40.0	32.6	28.1	26.6	25.2
75°	22.2	25.2	26.6	25.2	23.7	22.2	22.2	19.2	16.3	14.8	14.8
77.5°	22.2	23.7	22.2	19.2	16.3	14.8	13.3	11.8	8.9	7.4	8.9
80°	19.2	19.2	19.2	16.3	14.8	13.3	11.8	10.4	8.9	7.4	7.4
82.5°	20.7	20.7	19.2	16.3	16.3	13.3	13.3	11.8	10.4	7.4	7.4
85°	0.0	0.0	0.0	3.0	7.4	13.3	13.3	11.8	10.4	8.9	8.9
87.5°	0.0	0.0	0.0	0.0	1.5	3.0	5.9	7.4	8.9	8.9	8.9
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°	3784.2	3784.2	3784.2	3784.2	3784.2	3784.2	3784.2	3784.2	3784.2	3784.2	3784.2
2.5°	3269.0	3325.2	3431.8	3538.4	3603.6	3680.5	3819.7	3893.7	3990.0	4037.3	4130.6
5°	2633.8	2767.1	2814.4	2935.8	3066.1	3196.4	3403.7	3631.7	3821.2	3951.5	4120.2
7.5°	1921.7	1952.8	2136.4	2217.8	2431.0	2667.9	2950.6	3237.9	3477.7	3690.9	3819.7
10°	1440.5	1554.5	1670.0	1825.5	1997.2	2241.5	2512.4	2829.2	3140.2	3353.3	3516.2
12.5°	1157.8	1248.1	1402.0	1569.3	1781.0	1942.4	2214.8	2528.7	2931.4	3140.2	3354.8
15°	876.5	991.9	1166.6	1339.9	1563.4	1733.7	2009.0	2404.3	2922.5	3209.7	3394.8
17.5°	649.9	728.4	885.3	1079.3	1307.3	1547.1	1918.7	2391.0	3021.7	3363.7	3554.7
20°	497.5	524.1	623.3	796.5	1043.8	1357.6	1772.2	2448.8	3314.9	3738.3	3932.2
22.5°	402.7	414.5	453.0	573.0	812.8	1191.8	1702.6	2488.7	3645.0	4186.9	4446.0
25°	350.9	347.9	373.1	424.9	635.1	1036.4	1613.8	2639.7	4049.2	4713.9	4946.4
27.5°	319.8	319.8	331.6	368.6	527.1	935.7	1557.5	2747.8	4456.3	5177.3	5303.2
30°	303.5	306.5	340.5	352.4	438.2	815.8	1464.2	2857.4	4845.7	5473.4	5646.7
32.5°	281.3	269.5	262.0	291.7	368.6	707.7	1370.9	2903.3	5161.0	5836.2	5984.2
35°	216.2	210.2	219.1	241.3	316.8	615.9	1267.3	2955.1	5523.8	6256.6	6286.2
37.5°	195.4	193.9	199.9	219.1	266.5	535.9	1193.3	2941.8	5800.6	6604.5	6524.6
40°	180.6	180.6	185.1	201.3	238.4	479.7	1116.3	2929.9	6068.6	6995.4	6761.5
42.5°	168.8	168.8	176.2	186.5	226.5	442.7	1058.6	2913.6	6293.6	7235.2	6900.6
45°	152.5	156.9	168.8	179.1	229.5	417.5	1015.6	2851.5	6370.6	7232.3	6834.0
47.5°	140.6	146.6	158.4	173.2	207.3	410.1	986.0	2796.7	6344.0	7054.6	6625.3
50°	127.3	134.7	151.0	176.2	176.2	395.3	954.9	2845.5	6324.7	6916.9	6425.4
52°	118.4	124.4	145.1	171.7	154.0	364.2	935.7	2940.3	6403.2	6899.2	6336.6
52.5°	117.0	121.4	140.6	168.8	146.6	358.3	922.4	2962.5	6428.4	6854.7	6397.3
55°	103.6	109.6	128.8	131.8	119.9	294.6	879.4	3012.8	6304.0	6767.4	6339.5
57.5°	97.7	100.7	114.0	108.1	103.6	222.1	756.5	2934.4	5599.3	6010.9	5898.3
60°	90.3	93.3	106.6	84.4	87.3	155.5	568.5	2548.0	4496.3	5008.6	5211.4
62.5°	87.3	85.9	100.7	68.1	74.0	112.5	401.2	2071.2	3464.4	4123.2	4474.1
65°	77.0	75.5	72.5	57.7	63.7	87.3	239.8	1351.7	2441.4	3119.4	3311.9
67.5°	59.2	62.2	53.3	45.9	53.3	68.1	133.2	605.5	1280.6	1871.4	2026.8
70°	41.5	44.4	42.9	40.0	47.4	56.3	77.0	207.3	530.0	983.1	1083.7
72.5°	25.2	31.1	32.6	34.1	41.5	48.9	54.8	66.6	140.6	347.9	432.3
75°	14.8	20.7	25.2	29.6	34.1	41.5	45.9	47.4	48.9	65.1	105.1
77.5°	10.4	14.8	22.2	28.1	34.1	41.5	48.9	51.8	48.9	45.9	48.9
80°	8.9	14.8	20.7	26.6	35.5	42.9	48.9	48.9	47.4	41.5	44.4
82.5°	8.9	14.8	22.2	28.1	34.1	41.5	47.4	48.9	44.4	41.5	42.9
85°	10.4	16.3	23.7	29.6	37.0	34.1	31.1	25.2	23.7	19.2	20.7
87.5°	10.4	14.8	14.8	16.3	17.8	17.8	17.8	16.3	13.3	11.8	11.8
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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CATALOG NUMBER: GALN-SA3B-830-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3784.2	3784.2	3784.2	3784.2	3784.2	3784.2	3784.2	3784.2	3784.2	3784.2
2.5°	4135.1	4253.5	4249.1	4252.0	4234.2	4114.3	4056.6	3910.0	3951.5	3933.7
5°	4293.5	4410.4	4511.1	4499.3	4363.1	4200.2	3958.9	3730.9	3668.7	3576.9
7.5°	4135.1	4416.4	4509.6	4496.3	4294.9	4086.2	3701.3	3473.3	3365.2	3304.5
10°	3883.4	4209.1	4324.6	4348.2	4212.0	3895.2	3541.4	3175.7	3117.9	3012.8
12.5°	3739.8	3976.6	4047.7	4111.4	4064.0	3827.1	3420.0	3069.1	2989.1	2919.6
15°	3622.8	3763.4	3793.1	3865.6	3893.7	3766.4	3483.6	3184.6	2987.7	2980.3
17.5°	3730.9	3673.1	3565.1	3587.3	3676.1	3767.9	3648.0	3412.6	3221.6	3197.9
20°	3910.0	3655.4	3411.1	3465.9	3539.9	3821.2	3896.7	3730.9	3621.3	3560.6
22.5°	4115.8	3686.5	3362.2	3388.9	3529.5	3941.1	4299.4	4207.6	4003.3	3915.9
25°	4496.3	3772.3	3400.7	3418.5	3611.0	4108.4	4663.6	4731.7	4610.3	4592.5
27.5°	4867.9	3994.4	3485.1	3445.1	3652.4	4271.3	4884.2	5249.9	5036.7	4995.2
30°	5057.4	4175.0	3611.0	3542.9	3824.1	4370.5	5017.4	5587.4	5400.9	5381.6
32.5°	5347.6	4339.4	3708.7	3621.3	3920.4	4493.3	5266.2	5956.1	5775.5	5679.2
35°	5469.0	4518.5	3923.3	3821.2	4195.8	4665.1	5393.5	6284.8	6228.5	6135.2
37.5°	5702.9	4711.0	4176.5	4170.6	4528.9	4888.6	5623.0	6731.9	6721.5	6560.1
40°	5722.2	4921.2	4576.2	4762.8	5044.1	5278.0	5824.3	6856.2	7025.0	6915.4
42.5°	5751.8	5289.8	5267.6	5421.6	5662.9	5612.6	5831.7	6885.8	7143.4	7078.3
45°	5765.1	5658.5	5970.9	6255.1	6355.8	6050.8	5762.1	6829.6	7205.6	7042.8
47.5°	5658.5	5975.3	6539.4	7088.7	7118.3	6320.3	5732.5	6771.8	7242.6	7134.6
50°	5673.3	6173.7	7030.9	7522.5	7414.4	6558.6	5686.6	6736.3	7223.4	7150.8
52°	5637.8	6178.2	7100.5	7513.6	7438.1	6426.9	5608.2	6600.1	7205.6	7257.4
52.5°	5677.7	6151.5	7028.0	7519.5	7421.8	6492.0	5597.8	6675.6	7216.0	7110.9
55°	5540.1	5834.7	6603.1	6811.8	6797.0	5892.4	5279.5	6425.4	6945.1	6946.5
57.5°	5007.1	5057.4	5178.8	5174.4	5106.3	4632.5	4515.5	5908.7	6191.5	6037.5
60°	4411.9	3702.7	3375.6	3242.3	3166.8	3089.8	3994.4	5405.3	5432.0	5366.8
62.5°	3812.3	2567.2	2131.9	2094.9	2112.7	2394.0	3861.2	5205.5	5045.6	4904.9
65°	3076.5	1871.4	1548.6	1499.8	1673.0	1976.5	3125.3	3991.4	3745.7	3628.7
67.5°	1932.1	1365.0	1046.7	954.9	1163.7	1360.6	2053.5	2508.0	2232.6	2071.2
70°	1145.9	762.5	473.8	424.9	478.2	725.4	1150.4	1251.0	1034.9	952.0
72.5°	451.6	279.8	131.8	112.5	117.0	254.6	423.4	413.1	312.4	278.3
75°	121.4	84.4	45.9	37.0	31.1	47.4	68.1	44.4	16.3	20.7
77.5°	56.3	50.3	40.0	31.1	23.7	17.8	8.9	3.0	3.0	1.5
80°	48.9	42.9	37.0	31.1	23.7	14.8	7.4	1.5	1.5	1.5
82.5°	45.9	40.0	34.1	28.1	22.2	14.8	7.4	1.5	0.0	0.0
85°	19.2	25.2	28.1	26.6	23.7	14.8	7.4	1.5	0.0	0.0
87.5°	10.4	8.9	7.4	5.9	4.4	3.0	3.0	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

(END OF REPORT)