

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: P528339

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
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-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT 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

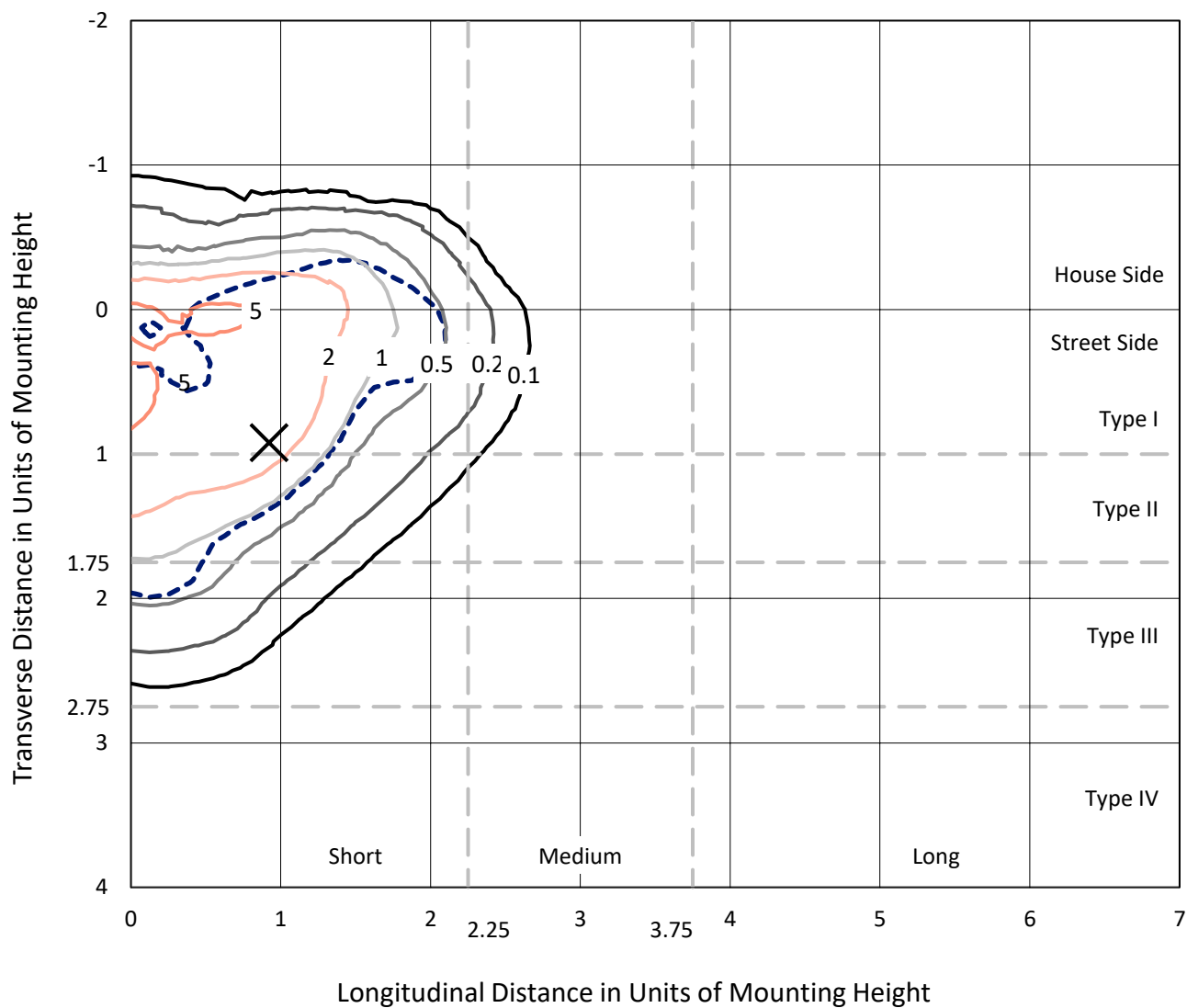
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

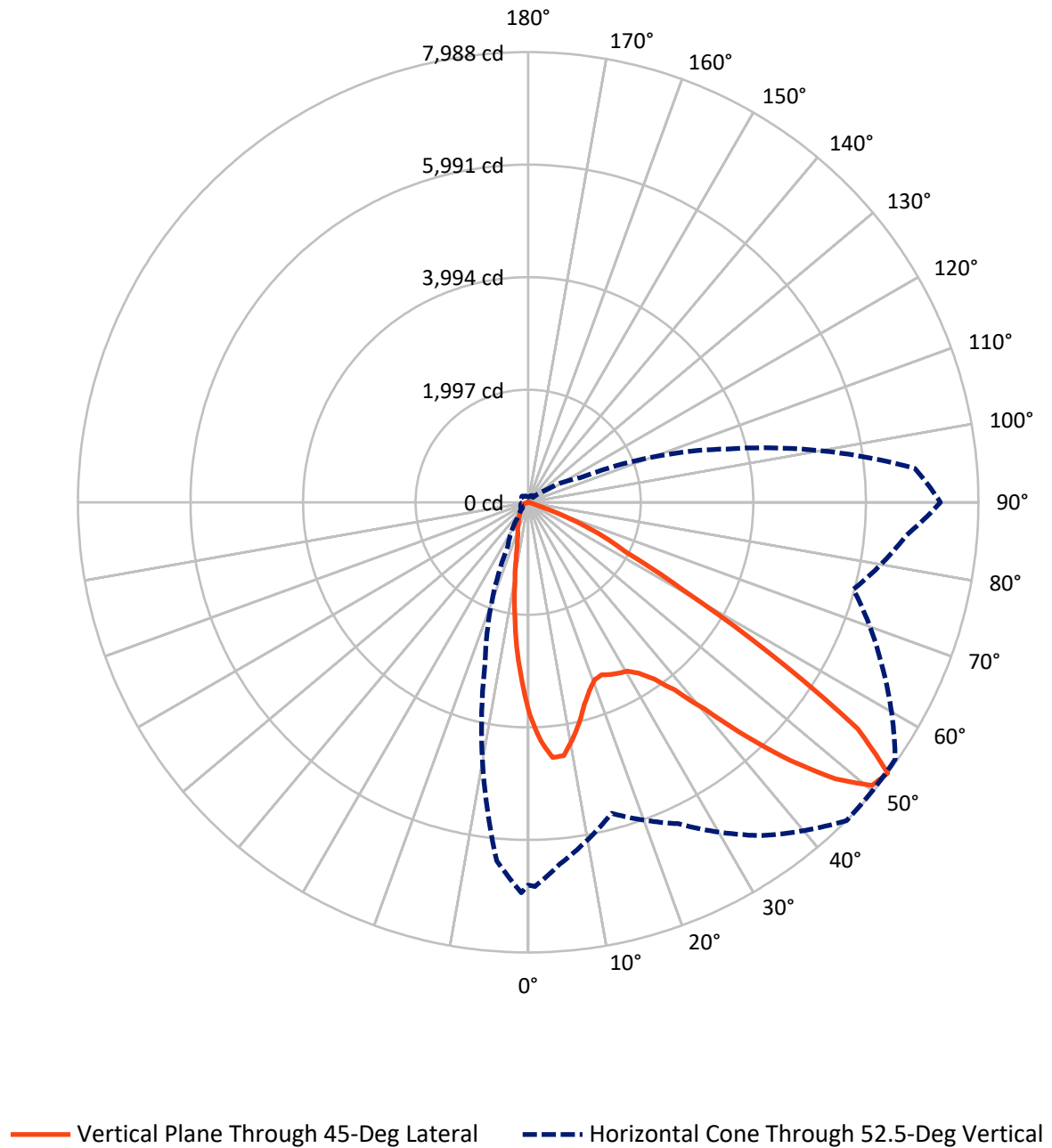
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	1514.4	0.0	1514.4
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	5947.6	0.0	5947.6
	% Fixture	79.7	0.0	79.7
Total	Lumens	7462.0	0.0	7462.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.9	3.7
10°-20°	544.4	7.3
20°-30°	828.5	11.1
30°-40°	1238.3	16.6
40°-50°	1763.4	23.6
50°-60°	1895.6	25.4
60°-70°	840.0	11.3
70°-80°	68.0	0.9
80°-90°	7.9	0.1
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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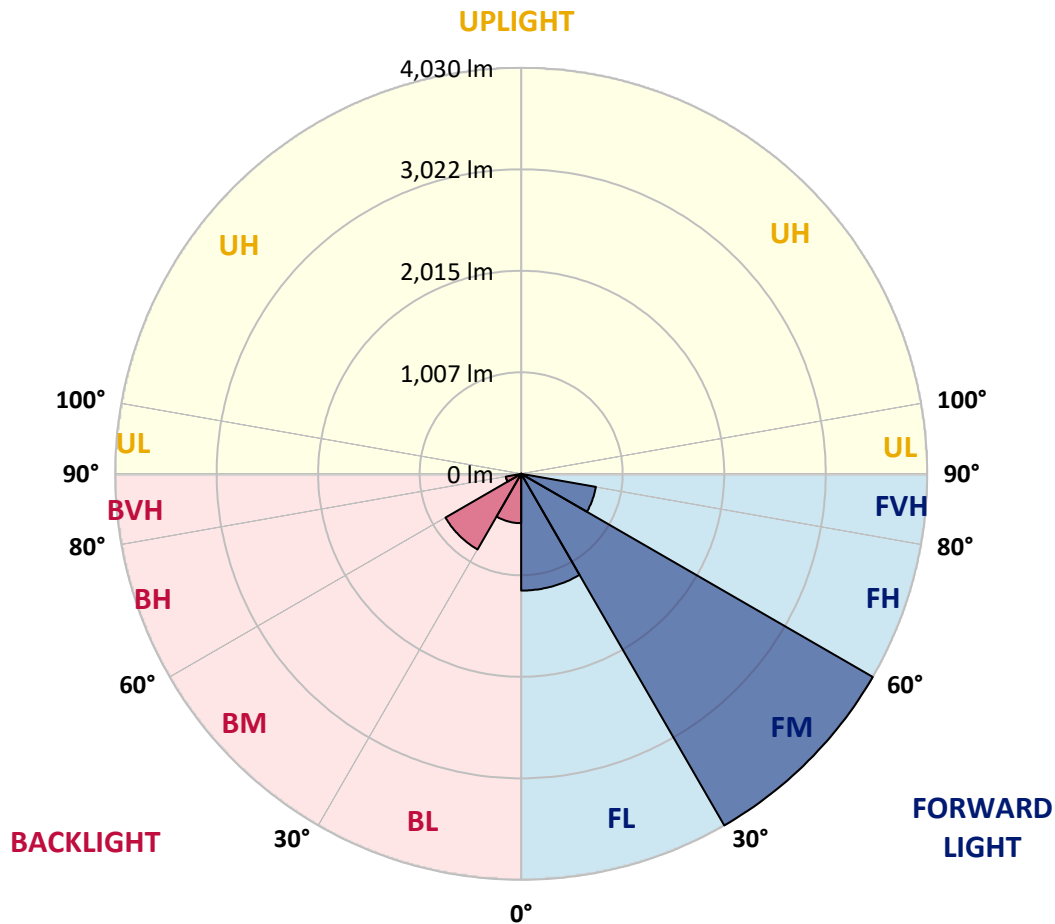
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1159.0	15.5			
FM	(30°-60°)	4029.7	54.0			
FH	(60°-80°)	753.0	10.1			G1/1800
FVH	(80°-90°)	5.9	0.1			G0/10
BL	(0°-30°)	489.8	6.6	B1/500		
BM	(30°-60°)	867.6	11.6	B1/1000		
BH	(60°-80°)	154.9	2.1	B1/500		G1/500
BVH	(80°-90°)	2.1	0.0			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°	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6
2.5°	4003.7	4015.5	4080.0	4160.8	4203.3	4300.2	4232.7	4250.3	4213.6	4084.4	3983.2
5°	3881.9	3880.4	3962.6	4162.2	4351.6	4543.8	4549.7	4447.0	4266.4	4068.3	3785.0
7.5°	3515.0	3572.2	3657.4	3975.8	4326.6	4470.4	4539.4	4419.1	4141.7	3858.4	3551.7
10°	3237.6	3267.0	3410.8	3795.3	4052.2	4244.4	4287.0	4218.0	4005.2	3651.5	3308.1
12.5°	3077.6	3092.3	3261.1	3584.0	3855.5	3997.9	4018.4	4050.7	3898.1	3566.4	3154.0
15°	3079.1	3090.9	3318.3	3588.4	3695.5	3657.4	3724.9	3723.4	3789.5	3550.2	3283.1
17.5°	3300.7	3313.9	3519.4	3653.0	3606.0	3516.5	3512.1	3579.6	3719.0	3751.3	3478.3
20°	3682.3	3713.1	3864.3	3857.0	3592.8	3412.3	3362.4	3413.7	3738.1	3921.5	3871.6
22.5°	4196.0	4238.5	4344.2	4141.7	3653.0	3341.8	3325.7	3425.5	3864.3	4301.7	4317.8
25°	4791.9	4863.8	4915.1	4655.4	3867.2	3463.6	3387.3	3559.0	4034.5	4714.1	4885.8
27.5°	5186.6	5261.5	5249.8	4878.4	4011.1	3495.9	3431.3	3591.3	4182.8	4812.4	5182.2
30°	5494.9	5540.3	5622.5	4998.8	4154.9	3586.9	3476.8	3727.8	4231.2	4982.6	5540.3
32.5°	5854.4	5885.2	5891.1	5211.6	4376.5	3701.4	3617.7	3898.1	4445.5	5145.6	5857.4
35°	6216.9	6262.4	6167.0	5474.3	4513.0	3914.2	3852.6	4193.1	4617.2	5314.3	6206.7
37.5°	6610.3	6633.7	6413.6	5582.9	4708.2	4260.6	4226.8	4511.5	4915.1	5619.6	6594.1
40°	6940.5	6962.5	6676.3	5716.5	4913.7	4744.9	4831.5	5119.1	5320.2	5817.7	6787.8
42.5°	7123.9	7175.3	6764.4	5643.1	5326.1	5293.8	5678.3	5779.6	5789.8	5873.5	6961.0
45°	7173.8	7150.4	6619.1	5703.3	5687.1	6196.4	6545.7	6679.2	6256.6	5976.2	7005.1
47.5°	6943.4	6974.2	6404.8	5650.4	6161.2	6880.3	7332.3	7580.4	6604.4	5886.7	6896.4
50°	6757.0	6717.4	6335.8	5612.3	6288.8	7203.2	7900.3	7956.1	6924.3	5996.8	6777.6
52.5°	6793.7	6818.7	6445.9	5713.5	6291.8	7222.3	7988.4	7950.2	6934.6	5971.8	6735.0
55°	6871.5	6761.4	6398.9	5490.4	5870.6	6689.5	7090.2	7031.5	6400.4	5706.2	6630.8
57.5°	5929.3	6099.5	5883.8	4901.9	4818.3	5039.9	5032.5	5213.1	4774.2	4910.7	6036.4
60°	4812.4	4841.8	4922.5	4193.1	3334.5	3258.2	3152.5	3038.0	3212.7	4198.9	5490.4
62.5°	4232.7	4197.5	4485.1	3814.4	2354.1	1971.0	1953.4	2023.9	2478.8	4005.2	5150.0
65°	3076.2	3120.2	3328.6	2960.2	1767.0	1504.3	1477.9	1686.3	2006.3	3209.7	3930.3
67.5°	1878.6	1963.7	1982.8	1825.7	1199.1	952.5	914.3	1103.7	1448.6	2076.7	2304.2
70°	867.4	970.1	1067.0	996.5	694.2	391.9	369.8	463.8	730.9	1194.7	1222.5
72.5°	262.7	264.2	369.8	386.0	224.5	88.1	77.8	102.7	248.0	394.8	415.3
75°	19.1	20.5	49.9	57.2	42.6	22.0	23.5	27.9	52.8	88.1	66.0
77.5°	1.5	1.5	1.5	7.3	13.2	14.7	19.1	22.0	27.9	32.3	29.4
80°	1.5	0.0	1.5	5.9	10.3	14.7	17.6	20.5	22.0	24.9	22.0
82.5°	0.0	0.0	0.0	4.4	10.3	14.7	16.1	22.0	24.9	29.4	24.9
85°	0.0	0.0	0.0	4.4	10.3	16.1	14.7	7.3	0.0	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°	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6
2.5°	4000.8	3943.6	3812.9	3746.9	3591.3	3569.3	3416.7	3391.7	3340.4	3312.5	3245.0
5°	3660.3	3591.3	3378.5	3199.5	2991.1	2845.8	2734.2	2632.9	2574.2	2519.9	2544.9
7.5°	3382.9	3181.8	2945.6	2646.2	2405.5	2249.9	2079.6	1940.2	1858.0	1802.3	1815.5
10°	3092.3	2961.7	2632.9	2296.9	2006.3	1896.2	1762.6	1655.5	1539.6	1439.8	1392.8
12.5°	3001.3	2807.6	2395.2	2053.2	1833.1	1725.9	1573.3	1450.0	1301.8	1180.0	1137.4
15°	3017.5	2831.1	2330.6	1965.2	1705.4	1520.5	1338.5	1185.9	1022.9	937.8	893.8
17.5°	3280.2	2957.3	2373.2	1872.7	1527.8	1271.0	1046.4	852.7	730.9	642.8	623.7
20°	3603.1	3230.3	2464.2	1805.2	1382.5	1011.2	764.6	597.3	496.1	481.4	477.0
22.5°	4075.6	3676.4	2659.4	1759.7	1204.9	788.1	523.9	434.4	406.5	403.6	405.1
25°	4736.1	4235.6	2872.2	1721.5	1071.4	607.6	428.6	368.4	359.6	355.2	362.5
27.5°	5022.3	4573.2	2985.2	1639.4	949.6	547.4	422.7	365.4	340.5	333.2	337.6
30°	5376.0	4797.7	3162.8	1498.5	770.5	450.6	394.8	397.7	386.0	349.3	337.6
32.5°	5845.6	5078.0	3252.3	1398.7	688.3	372.8	289.1	265.6	296.5	302.3	312.6
35°	6146.5	5362.8	3297.8	1340.0	645.8	318.5	245.1	223.1	215.7	217.2	223.1
37.5°	6705.7	5747.3	3355.0	1278.3	613.5	277.4	221.6	201.1	190.8	190.8	196.7
40°	7040.3	6052.6	3432.8	1244.6	581.2	252.4	201.1	183.5	174.6	174.6	177.6
42.5°	7123.9	6203.7	3406.4	1232.8	544.5	246.6	183.5	170.2	160.0	158.5	157.0
45°	7273.6	6434.1	3410.8	1219.6	506.3	224.5	173.2	158.5	143.8	142.4	140.9
47.5°	7438.0	6600.0	3419.6	1168.2	469.6	187.9	180.5	146.8	129.2	126.2	126.2
50°	7297.1	6732.1	3495.9	1116.9	422.7	152.6	177.6	138.0	114.5	110.1	111.5
52.5°	7314.7	6887.6	3657.4	1045.0	364.0	121.8	143.8	130.6	104.2	96.9	98.3
55°	7032.9	6723.3	3679.4	968.6	284.7	93.9	110.1	114.5	88.1	85.1	85.1
57.5°	6054.0	5693.0	3246.4	785.2	187.9	77.8	79.3	99.8	76.3	73.4	74.8
60°	5180.8	4570.2	2612.4	518.1	117.4	61.6	57.2	101.3	67.5	66.0	70.4
62.5°	4722.9	3755.7	1981.3	321.4	80.7	47.0	39.6	82.2	58.7	58.7	64.6
65°	3412.3	2522.9	1152.1	168.8	57.2	36.7	29.4	47.0	48.4	49.9	52.8
67.5°	2113.4	1273.9	485.8	82.2	38.2	24.9	19.1	29.4	32.3	32.3	35.2
70°	1043.5	507.8	161.4	47.0	29.4	20.5	13.2	16.1	16.1	14.7	16.1
72.5°	322.9	152.6	41.1	29.4	20.5	13.2	7.3	5.9	2.9	0.0	1.5
75°	36.7	29.4	26.4	20.5	13.2	5.9	1.5	0.0	0.0	0.0	0.0
77.5°	22.0	24.9	24.9	20.5	13.2	4.4	0.0	0.0	0.0	0.0	0.0
80°	17.6	19.1	20.5	19.1	11.7	5.9	0.0	0.0	0.0	0.0	0.0
82.5°	22.0	24.9	27.9	24.9	16.1	7.3	2.9	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	4.4	1.5	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6
2.5°	3217.1	3184.8	3230.3	3162.8	3161.3	3162.8	3143.7	3126.1	3154.0	3228.8	3236.2
5°	2455.4	2524.3	2546.4	2618.3	2578.6	2519.9	2531.7	2492.1	2588.9	2631.5	2597.7
7.5°	1787.6	1783.2	1931.4	1940.2	1959.3	1960.8	1957.8	1880.0	1800.8	1818.4	1871.2
10°	1386.9	1312.1	1384.0	1376.6	1423.6	1410.4	1429.5	1345.8	1373.7	1373.7	1407.5
12.5°	1130.1	1050.8	1037.6	1018.5	1037.6	1045.0	1052.3	1036.2	1083.1	1105.1	1128.6
15°	863.0	818.9	807.2	770.5	776.4	796.9	814.5	821.9	807.2	841.0	843.9
17.5°	626.7	625.2	632.6	631.1	625.2	620.8	619.3	600.3	594.4	597.3	609.1
20°	475.5	487.3	512.2	537.2	550.4	534.2	512.2	479.9	466.7	469.6	471.1
22.5°	406.5	424.1	457.9	485.8	499.0	469.6	430.0	402.1	396.3	394.8	393.3
25°	368.4	388.9	413.9	422.7	421.2	403.6	374.2	362.5	359.6	356.6	343.4
27.5°	347.8	355.2	359.6	369.8	374.2	362.5	355.2	337.6	334.6	334.6	325.8
30°	336.1	331.7	337.6	330.2	336.1	327.3	328.8	328.8	321.4	324.3	324.3
32.5°	312.6	314.1	314.1	299.4	303.8	293.5	303.8	312.6	314.1	315.5	327.3
35°	229.0	255.4	268.6	268.6	273.0	265.6	264.2	253.9	240.7	227.5	221.6
37.5°	201.1	211.3	229.0	239.2	246.6	240.7	227.5	211.3	204.0	198.1	192.3
40°	179.1	187.9	199.6	211.3	226.0	218.7	198.1	190.8	182.0	182.0	176.1
42.5°	161.4	165.8	173.2	190.8	206.9	192.3	177.6	171.7	167.3	165.8	164.4
45°	145.3	146.8	154.1	168.8	187.9	173.2	158.5	151.2	152.6	154.1	152.6
47.5°	130.6	133.6	138.0	155.6	167.3	160.0	143.8	139.4	139.4	139.4	140.9
50°	113.0	120.3	129.2	143.8	152.6	148.2	135.0	129.2	126.2	126.2	127.7
52.5°	101.3	107.1	118.9	136.5	148.2	140.9	127.7	118.9	113.0	111.5	114.5
55°	88.1	98.3	117.4	130.6	146.8	139.4	124.7	114.5	104.2	102.7	102.7
57.5°	79.3	95.4	113.0	129.2	142.4	136.5	124.7	111.5	98.3	96.9	96.9
60°	74.8	92.5	110.1	124.7	142.4	133.6	123.3	108.6	93.9	93.9	92.5
62.5°	70.4	86.6	104.2	118.9	136.5	129.2	118.9	104.2	89.5	89.5	86.6
65°	58.7	74.8	86.6	99.8	118.9	111.5	101.3	91.0	79.3	76.3	77.8
67.5°	41.1	51.4	63.1	76.3	88.1	85.1	80.7	73.4	63.1	61.6	60.2
70°	20.5	27.9	38.2	51.4	61.6	58.7	55.8	49.9	44.0	42.6	42.6
72.5°	2.9	8.8	16.1	23.5	32.3	33.8	32.3	30.8	29.4	27.9	29.4
75°	0.0	0.0	0.0	5.9	13.2	16.1	19.1	22.0	22.0	19.1	23.5
77.5°	0.0	0.0	0.0	0.0	1.5	7.3	14.7	19.1	23.5	20.5	27.9
80°	0.0	0.0	0.0	0.0	1.5	8.8	14.7	20.5	23.5	20.5	29.4
82.5°	0.0	0.0	0.0	0.0	1.5	10.3	14.7	19.1	22.0	20.5	26.4
85°	0.0	0.0	0.0	0.0	4.4	8.8	5.9	2.9	1.5	1.5	4.4
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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CATALOG NUMBER: GALN-SA3B-830-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6
2.5°	3277.2	3381.4	3493.0	3535.5	3667.6	3767.4	3834.9	3980.2	4002.3	4003.7
5°	2632.9	2685.8	2876.6	2966.1	3162.8	3315.4	3478.3	3713.1	3870.2	3881.9
7.5°	1871.2	2018.0	2098.7	2332.1	2574.2	2813.5	3055.6	3328.6	3510.6	3515.0
10°	1505.8	1601.2	1745.0	1919.7	2123.7	2367.3	2690.2	3007.2	3192.1	3237.6
12.5°	1212.3	1379.6	1544.0	1724.5	1880.0	2063.5	2411.3	2834.0	2986.7	3077.6
15°	933.4	1086.1	1279.8	1491.1	1667.2	1912.3	2308.6	2791.5	3048.3	3079.1
17.5°	688.3	824.8	1003.9	1203.5	1467.6	1815.5	2326.2	3007.2	3249.4	3300.7
20°	494.6	573.8	714.7	946.6	1282.7	1702.5	2343.8	3225.9	3594.3	3682.3
22.5°	391.9	424.1	516.6	722.1	1075.8	1583.6	2468.6	3644.2	4068.3	4196.0
25°	340.5	358.1	402.1	569.4	945.2	1571.8	2668.2	4146.1	4699.4	4791.9
27.5°	328.8	331.7	369.8	522.5	874.7	1494.1	2744.5	4502.7	5092.7	5186.6
30°	346.4	393.3	396.3	441.8	744.1	1340.0	2784.1	4847.6	5425.9	5494.9
32.5°	299.4	284.7	295.0	342.0	654.6	1250.4	2859.0	5148.5	5806.0	5854.4
35°	208.4	218.7	242.2	296.5	572.4	1156.5	2878.0	5480.2	6167.0	6216.9
37.5°	192.3	198.1	217.2	252.4	503.4	1103.7	2851.6	5722.3	6541.3	6610.3
40°	179.1	186.4	196.7	229.0	452.0	1045.0	2814.9	5941.0	6770.2	6940.5
42.5°	168.8	174.6	183.5	218.7	408.0	986.3	2763.6	6249.2	6975.7	7123.9
45°	157.0	165.8	176.1	212.8	383.1	946.6	2725.4	6230.1	7094.6	7173.8
47.5°	145.3	160.0	171.7	198.1	375.7	927.5	2741.6	6158.2	6997.7	6943.4
50°	133.6	152.6	173.2	164.4	358.1	889.4	2760.6	6256.6	6767.3	6757.0
52.5°	123.3	145.3	161.4	135.0	318.5	852.7	2945.6	6385.7	6930.2	6793.7
55°	108.6	130.6	129.2	108.6	258.3	824.8	3090.9	6388.6	6820.1	6871.5
57.5°	98.3	115.9	101.3	91.0	190.8	689.8	2854.6	5356.9	5838.3	5929.3
60°	91.0	113.0	76.3	71.9	124.7	497.5	2492.1	4149.0	4640.7	4812.4
62.5°	83.7	107.1	60.2	58.7	86.6	353.7	2048.8	3472.4	3999.3	4232.7
65°	73.4	76.3	48.4	45.5	61.6	190.8	1247.5	2390.8	2989.6	3076.2
67.5°	60.2	58.7	39.6	36.7	41.1	92.5	550.4	1197.6	1733.3	1878.6
70°	48.4	48.4	33.8	29.4	29.4	42.6	143.8	477.0	783.7	867.4
72.5°	35.2	36.7	26.4	23.5	22.0	20.5	23.5	95.4	205.5	262.7
75°	30.8	32.3	26.4	20.5	16.1	13.2	10.3	8.8	11.7	19.1
77.5°	33.8	33.8	27.9	19.1	14.7	10.3	5.9	2.9	2.9	1.5
80°	42.6	44.0	36.7	24.9	17.6	11.7	7.3	2.9	1.5	1.5
82.5°	45.5	49.9	41.1	30.8	22.0	13.2	7.3	1.5	0.0	0.0
85°	11.7	19.1	32.3	27.9	22.0	13.2	7.3	1.5	0.0	0.0
87.5°	0.0	1.5	4.4	4.4	5.9	5.9	4.4	1.5	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

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