

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: P452465

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11635 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

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

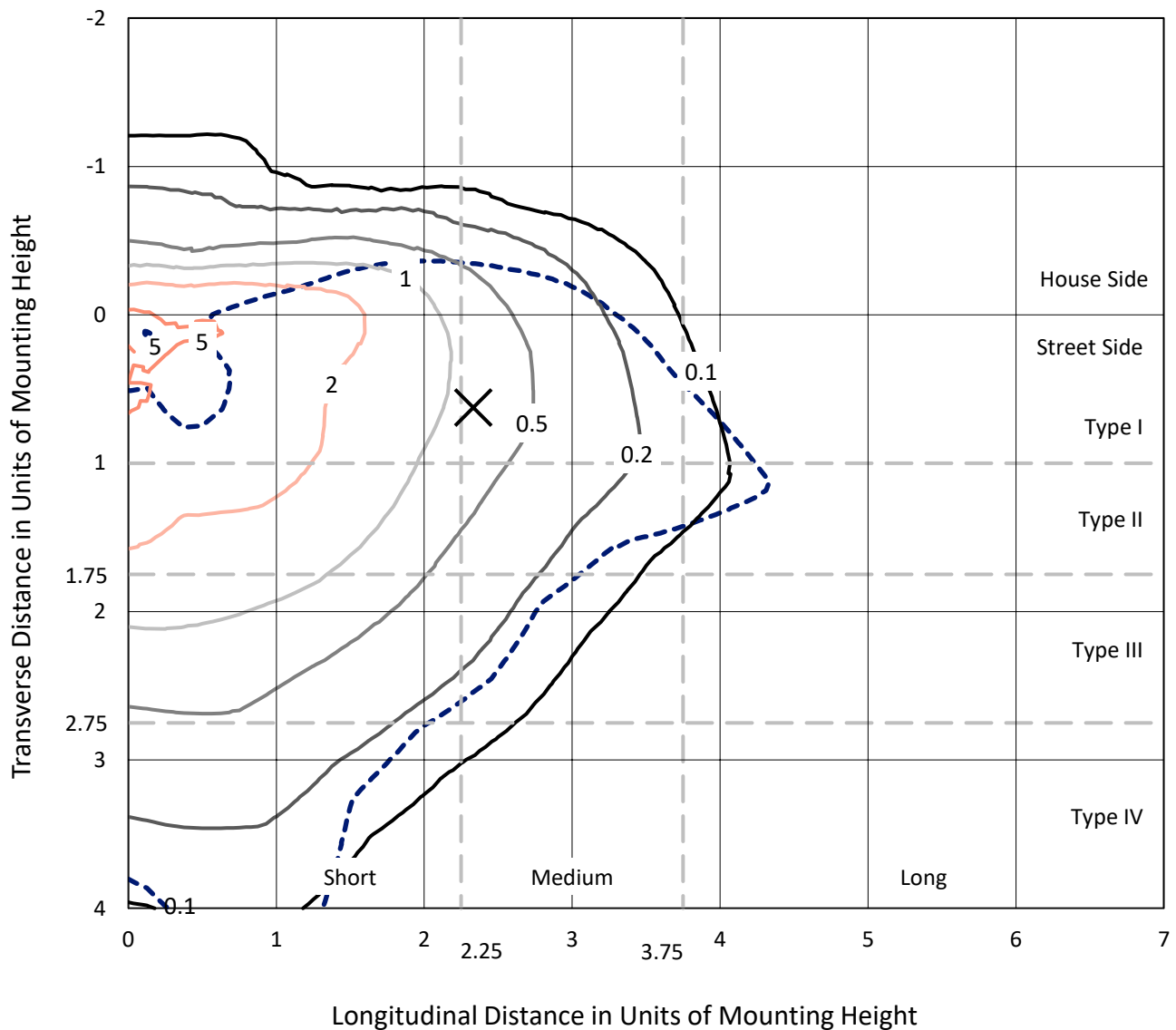


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Iso-Footcandle Lines of Horizontal Illumination

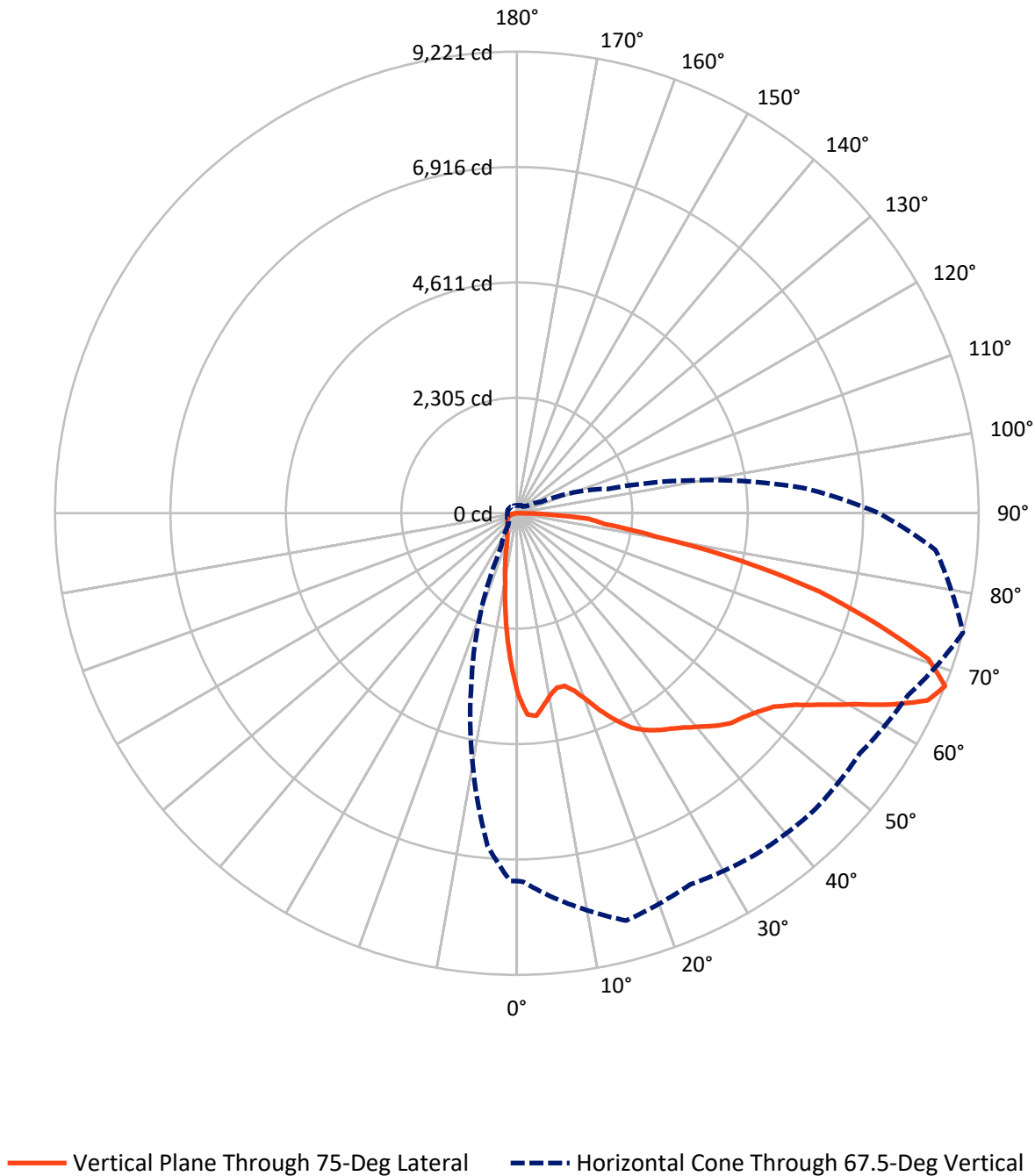
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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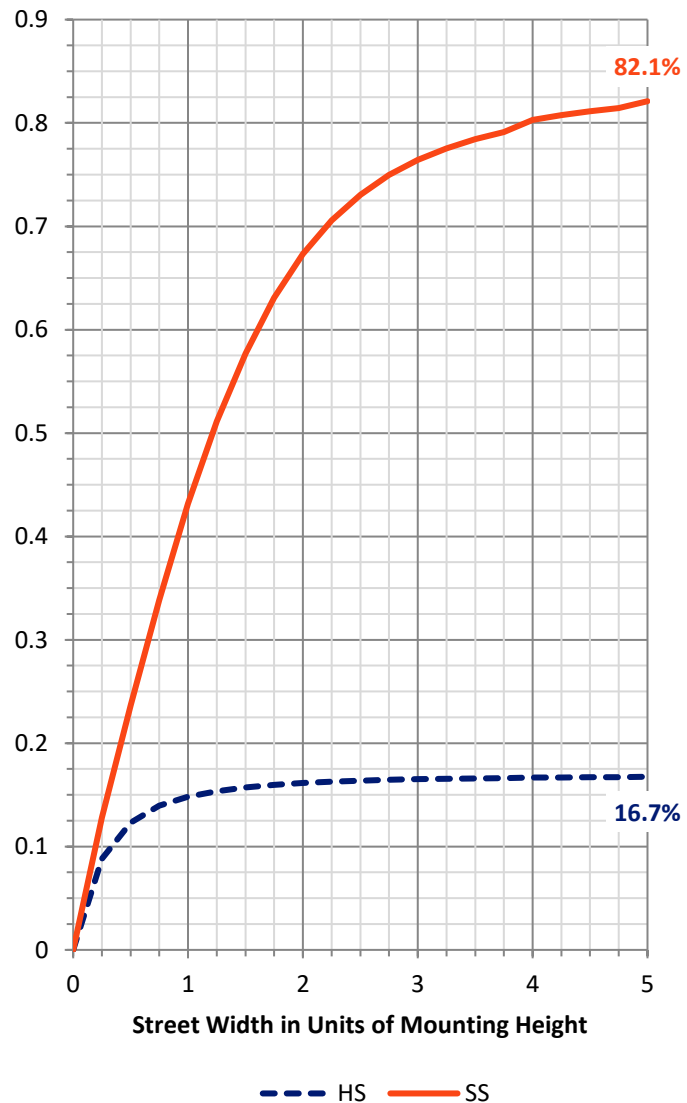
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1966.6	0.0	1966.6
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	9668.4	0.0	9668.4
	% Fixture	83.1	0.0	83.1
Total	Lumens	11635.0	0.0	11635.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.7	2.4
10°-20°	575.0	4.9
20°-30°	827.4	7.1
30°-40°	1191.7	10.2
40°-50°	1674.1	14.4
50°-60°	2334.7	20.1
60°-70°	2775.8	23.9
70°-80°	1634.8	14.1
80°-90°	345.7	3.0
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°	11635.0	100.0
0°-180°	11635.0	100.0

Coefficient of Utilization



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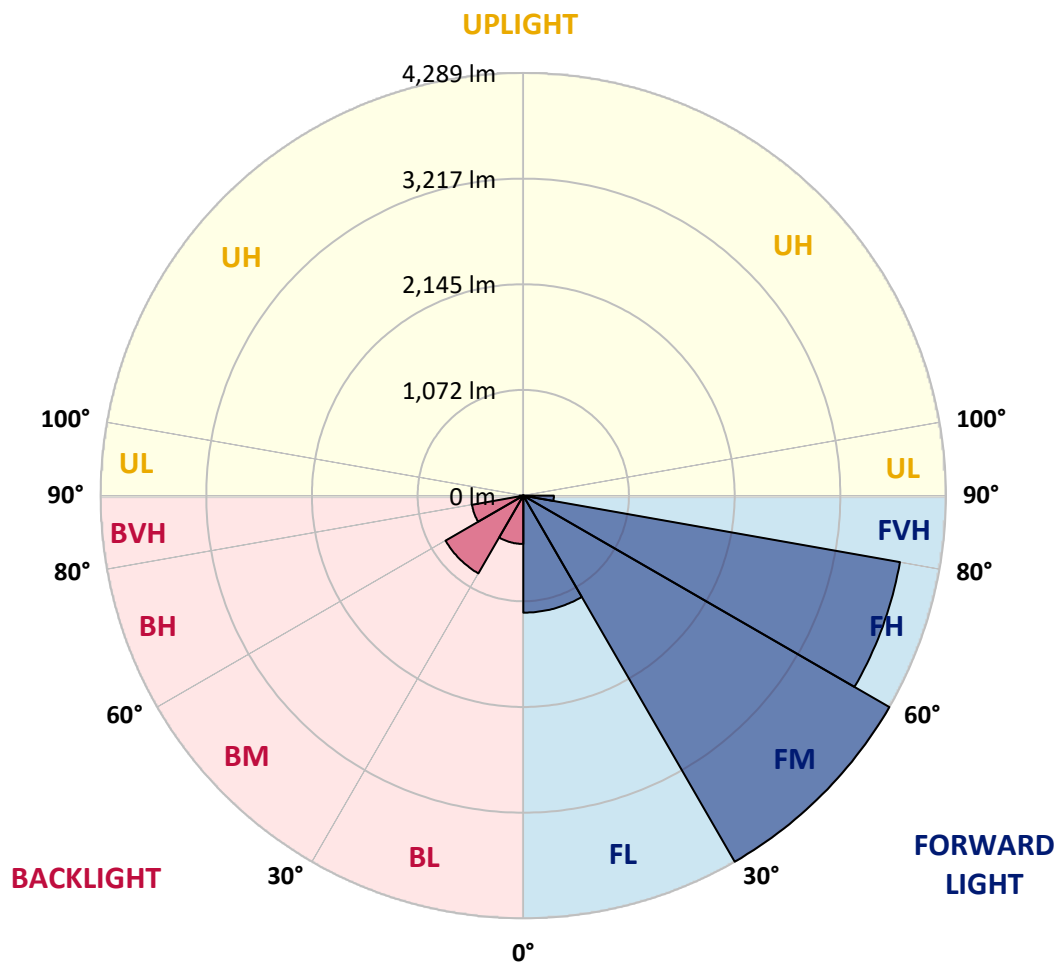
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1187.6	10.2			
FM	(30°-60°)	4289.4	36.9			
FH	(60°-80°)	3881.5	33.4			G2/5000
FVH	(80°-90°)	309.9	2.7			G3/500
BL	(0°-30°)	490.5	4.2	B1/500		
BM	(30°-60°)	911.1	7.8	B1/1000		
BH	(60°-80°)	529.2	4.5	B2/1000		G2/1000
BVH	(80°-90°)	35.8	0.3			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3635.0	3635.0	3635.0	3635.0	3635.0	3635.0	3635.0	3635.0	3635.0	3635.0	3635.0
2.5°	3919.3	3924.5	3958.1	4055.9	4123.0	4147.6	4164.8	4132.7	4101.4	4025.3	3910.4
5°	3907.4	3938.0	4025.3	4244.6	4417.7	4492.3	4514.7	4418.5	4259.5	4064.1	3829.0
7.5°	3679.1	3720.1	3854.4	4222.2	4527.4	4702.0	4678.9	4505.0	4218.5	3870.1	3541.8
10°	3408.2	3453.7	3615.7	4060.3	4453.5	4693.8	4693.8	4481.9	4101.4	3687.3	3309.0
12.5°	3193.4	3241.1	3426.1	3893.9	4299.8	4527.4	4565.4	4383.4	4017.1	3571.6	3156.0
15°	3122.5	3168.7	3367.9	3793.2	4137.2	4276.0	4288.6	4229.0	3976.0	3579.8	3149.3
17.5°	3210.5	3270.2	3471.7	3823.1	3988.0	3996.2	4005.9	4052.9	3980.5	3729.8	3285.1
20°	3464.9	3529.1	3739.5	3919.3	3857.4	3772.3	3777.6	3898.4	4033.5	3977.5	3609.7
22.5°	3832.0	3888.0	4103.6	4088.7	3802.2	3626.8	3590.3	3758.9	4111.8	4286.4	3955.1
25°	4228.2	4293.9	4541.6	4340.1	3817.8	3540.3	3517.2	3676.8	4193.1	4575.1	4354.3
27.5°	4681.8	4746.0	4941.5	4593.8	3899.9	3533.6	3506.0	3669.4	4266.3	4842.3	4735.6
30°	5019.1	5078.0	5210.8	4807.2	4000.6	3578.3	3544.0	3728.3	4328.9	5025.1	5107.1
32.5°	5284.0	5345.1	5417.5	4940.0	4133.5	3659.7	3596.3	3835.8	4411.0	5164.6	5382.4
35°	5560.0	5632.4	5627.2	5057.9	4257.3	3753.7	3691.8	3990.9	4540.1	5286.2	5731.6
37.5°	5909.9	5939.0	5901.7	5163.8	4405.8	3923.0	3888.7	4221.5	4723.6	5433.2	6139.7
40°	6265.1	6323.3	6131.5	5292.2	4586.3	4241.6	4237.9	4562.5	4941.5	5605.5	6535.2
42.5°	6569.5	6618.7	6346.4	5404.1	4805.0	4630.4	4658.7	5019.8	5227.2	5805.5	6853.0
45°	6798.6	6842.6	6544.9	5512.3	5092.9	5079.5	5246.6	5510.0	5587.6	5985.3	7039.6
47.5°	6993.3	7035.8	6682.9	5676.4	5448.8	5616.0	5907.0	6021.1	5895.8	6088.3	7248.5
50°	7157.4	7170.1	6777.7	5871.9	5890.5	6273.3	6555.3	6629.2	6200.2	6236.0	7429.8
52.5°	7328.3	7311.9	6941.1	6118.1	6368.1	6897.0	7102.2	7179.1	6491.9	6418.0	7693.9
55°	7711.0	7726.7	7307.4	6428.5	6850.8	7509.6	7779.7	7705.8	6815.0	6753.0	8029.6
57.5°	8173.6	8160.2	7823.0	6914.2	7342.5	8079.6	8281.1	8162.4	7246.2	7213.4	8369.9
60°	8353.5	8371.4	8254.2	7436.5	7827.4	8578.8	8784.7	8600.4	7763.3	7748.4	8626.5
62.5°	8172.9	8273.6	8352.7	7901.3	8240.8	8945.9	9150.3	8939.9	8302.7	8410.9	8806.3
65°	7813.3	7834.9	8104.2	8295.3	8440.0	9006.3	9113.0	9001.1	8753.4	9014.5	8798.1
67.5°	7346.2	7364.9	7680.5	8424.3	8183.3	8319.9	8394.5	8361.7	8613.8	9221.2	8393.0
70°	6901.5	6886.6	7220.1	8095.3	7123.9	6916.4	6978.4	6875.4	7432.8	8716.1	7598.4
72.5°	6036.0	6089.8	6447.9	7180.6	5640.6	5303.4	5438.4	5172.0	5716.7	7464.8	6167.3
75°	4728.1	4740.8	5338.4	6026.3	4255.1	3723.1	3905.9	3794.7	4378.9	6227.0	4258.8
77.5°	3273.9	3245.6	3888.0	4602.8	3034.4	2725.5	2728.5	2675.6	3057.6	4584.8	2893.4
80°	2079.4	2036.1	2433.8	2843.4	2085.4	2230.9	2157.8	2155.5	1990.6	2828.5	1749.6
82.5°	1123.6	1171.4	1537.7	1782.5	1496.0	1724.3	1580.3	1534.0	1366.1	1770.5	1119.2
85°	511.8	556.6	820.0	1212.4	1136.3	1149.0	767.7	905.8	1130.4	1437.8	597.6
87.5°	50.0	64.2	169.4	572.3	388.0	305.9	114.2	220.1	284.3	511.1	47.8
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3635.0	3635.0	3635.0	3635.0	3635.0	3635.0	3635.0	3635.0	3635.0	3635.0	3635.0
2.5°	3863.4	3824.6	3692.5	3583.6	3467.9	3379.9	3265.0	3188.1	3135.2	3055.3	3045.6
5°	3685.8	3591.0	3361.2	3126.9	2924.8	2772.5	2618.1	2476.3	2392.8	2366.7	2333.1
7.5°	3386.6	3226.9	2931.5	2662.9	2430.8	2204.0	2029.4	1905.6	1822.7	1774.3	1716.1
10°	3140.4	2955.3	2595.7	2266.7	2075.7	1934.7	1781.0	1648.2	1545.9	1458.6	1410.9
12.5°	2974.7	2765.8	2361.4	2094.3	1946.6	1796.6	1616.8	1467.6	1316.9	1217.7	1175.1
15°	2924.8	2703.9	2289.1	2008.5	1796.6	1600.4	1399.0	1204.2	1055.0	961.0	929.7
17.5°	3047.1	2780.0	2288.3	1894.4	1620.6	1386.3	1128.1	945.3	792.4	722.2	699.9
20°	3275.4	2926.2	2295.0	1781.7	1429.5	1099.8	820.7	670.8	597.6	567.8	556.6
22.5°	3594.0	3149.3	2315.2	1670.5	1220.6	844.6	614.8	538.7	512.6	507.4	505.1
25°	3986.5	3425.4	2383.1	1570.6	1044.6	644.6	514.1	479.7	464.8	459.6	458.9
27.5°	4347.6	3782.0	2465.1	1484.8	874.4	555.9	464.8	435.7	420.8	420.1	421.6
30°	4673.6	4080.5	2533.8	1388.5	745.4	493.9	432.7	403.6	389.5	388.7	393.2
32.5°	4955.7	4325.9	2584.5	1293.8	673.7	455.9	403.6	372.3	360.4	358.1	360.4
35°	5257.1	4570.7	2561.4	1219.9	632.7	424.5	382.0	351.4	337.2	330.5	330.5
37.5°	5601.0	4822.9	2521.9	1158.7	614.0	398.4	363.4	333.5	319.3	312.6	311.9
40°	5976.3	5075.0	2467.4	1104.2	595.4	382.8	350.7	319.3	302.2	295.5	294.0
42.5°	6307.6	5290.7	2422.6	1068.4	564.8	385.7	339.5	308.9	287.3	278.3	277.6
45°	6595.6	5507.8	2414.4	1047.5	539.4	381.3	336.5	300.7	275.3	265.6	264.1
47.5°	6820.9	5733.9	2461.4	1035.6	511.8	357.4	355.9	295.5	264.9	254.4	252.9
50°	7095.5	6054.7	2568.9	1011.0	486.5	335.0	376.0	294.7	256.7	243.2	239.5
52.5°	7461.1	6472.5	2714.3	967.0	449.9	314.1	358.9	294.7	247.0	233.5	229.1
55°	8014.0	7005.2	2856.9	905.0	398.4	286.5	323.8	285.8	232.8	220.8	217.9
57.5°	8380.3	7394.7	2947.9	819.2	334.3	266.4	279.0	271.6	218.6	205.9	205.9
60°	8399.0	7499.2	2904.6	711.0	294.0	247.7	242.5	273.8	205.9	192.5	191.0
62.5°	8184.1	7243.2	2679.3	614.0	272.3	227.6	219.4	240.2	193.2	179.8	177.6
65°	7848.3	6590.4	2288.3	567.8	260.4	209.7	197.7	197.0	179.8	167.1	164.1
67.5°	7231.3	5759.2	1880.2	540.9	254.4	189.5	178.3	174.6	164.1	153.7	152.2
70°	6321.8	4823.6	1507.9	529.7	251.4	168.6	159.7	155.2	146.2	138.0	137.3
72.5°	4918.4	3912.6	1244.5	522.3	249.9	149.2	139.5	133.6	128.3	120.9	120.9
75°	3532.8	2878.5	949.8	470.8	231.3	128.3	117.9	114.2	106.7	100.7	102.2
77.5°	2227.1	1938.4	625.2	346.2	179.1	103.0	94.0	91.8	85.8	77.6	82.8
80°	1504.2	1363.1	364.8	217.9	112.7	75.4	72.4	71.6	64.9	56.0	56.7
82.5°	1023.7	1004.3	189.5	123.9	64.9	44.0	42.5	44.0	36.6	29.8	29.8
85°	399.9	546.2	89.5	48.5	20.9	6.7	9.7	10.4	6.0	3.0	3.7
87.5°	7.5	56.0	2.2	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°	3635.0	3635.0	3635.0	3635.0	3635.0	3635.0	3635.0	3635.0	3635.0	3635.0	3635.0
2.5°	3030.7	3024.0	3035.2	2987.4	2997.1	3015.0	3024.0	3029.2	3103.1	3085.9	3132.9
5°	2364.4	2357.7	2401.0	2407.0	2429.3	2424.9	2446.5	2451.7	2478.6	2488.3	2553.9
7.5°	1719.8	1748.9	1798.1	1823.5	1861.5	1873.5	1862.3	1889.9	1833.9	1874.2	1886.2
10°	1381.8	1346.7	1325.8	1384.0	1391.5	1446.7	1424.3	1406.4	1439.2	1440.7	1472.1
12.5°	1150.5	1075.1	1025.2	1041.6	1059.5	1083.4	1087.1	1122.9	1146.8	1169.2	1187.8
15°	902.0	875.9	830.4	808.0	833.4	843.1	866.2	896.1	921.4	928.2	953.5
17.5°	692.4	696.9	689.4	676.0	691.6	699.1	700.6	701.3	708.1	703.6	740.9
20°	557.3	573.0	591.7	594.6	599.9	603.6	596.9	571.5	572.3	587.9	599.9
22.5°	504.4	507.4	528.2	535.0	551.4	544.7	525.3	513.3	511.8	515.6	521.5
25°	462.6	467.1	482.0	492.4	505.1	493.2	479.0	467.8	466.3	470.0	476.0
27.5°	425.3	432.0	445.4	455.9	467.8	456.6	443.2	433.5	432.7	432.0	435.7
30°	395.4	402.9	412.6	424.5	432.7	423.0	410.4	405.1	404.4	402.9	404.4
32.5°	365.6	377.5	387.2	393.2	401.4	393.9	384.2	381.3	376.0	371.6	369.3
35°	332.0	344.7	359.6	367.1	375.3	367.8	361.1	348.4	339.5	338.7	340.2
37.5°	312.6	317.8	329.8	342.5	350.7	346.9	334.3	321.6	319.3	319.3	320.8
40°	295.5	297.7	302.9	319.3	334.3	323.1	307.4	303.7	303.7	302.9	303.7
42.5°	278.3	280.5	280.5	293.2	317.1	299.2	287.3	287.3	287.3	288.0	290.2
45°	262.6	263.4	262.6	271.6	294.0	279.0	270.8	273.1	274.6	276.1	277.6
47.5°	249.2	249.9	249.2	256.7	267.9	261.9	257.4	260.4	263.4	265.6	267.1
50°	237.3	236.5	238.0	242.5	247.7	249.2	246.2	250.7	252.2	255.2	258.9
52.5°	226.8	226.1	227.6	229.8	237.3	237.3	237.3	241.0	244.0	247.0	252.2
55°	214.9	215.6	217.9	220.8	230.5	229.1	229.8	232.8	235.8	240.2	243.2
57.5°	203.7	205.2	208.2	212.6	222.3	221.6	222.3	223.8	227.6	229.8	232.8
60°	191.0	194.0	197.7	200.7	210.4	209.7	213.4	216.4	218.6	218.6	220.1
62.5°	178.3	182.8	186.5	188.8	199.2	200.0	205.2	207.4	208.9	207.4	209.7
65°	165.6	172.4	173.8	176.8	187.3	188.0	194.0	199.2	197.7	196.2	200.0
67.5°	153.0	161.2	160.4	164.1	174.6	176.1	181.3	190.3	187.3	185.8	188.8
70°	138.8	144.7	145.5	147.7	161.9	159.7	167.9	176.1	173.8	174.6	174.6
72.5°	123.1	128.3	128.3	132.8	147.7	144.0	150.7	159.7	159.7	158.9	158.9
75°	104.5	107.4	110.4	117.1	132.8	128.3	132.8	141.0	142.5	141.0	141.0
77.5°	84.3	88.8	90.3	99.2	110.4	109.7	114.2	117.9	120.9	119.4	119.4
80°	59.7	64.2	70.1	79.8	86.5	88.8	91.0	94.0	95.5	95.5	97.0
82.5°	33.6	40.3	45.5	55.2	58.2	69.4	68.6	70.9	68.6	60.4	67.1
85°	7.5	14.2	20.1	25.4	29.1	40.3	42.5	47.8	39.5	36.6	36.6
87.5°	0.0	0.0	0.0	0.0	0.0	6.0	11.9	16.4	14.2	11.9	11.9
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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CATALOG NUMBER: GALN-SA3B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3635.0	3635.0	3635.0	3635.0	3635.0	3635.0	3635.0	3635.0	3635.0	3635.0
2.5°	3172.5	3237.4	3315.7	3450.8	3545.5	3647.7	3750.7	3860.4	3889.5	3919.3
5°	2571.8	2699.4	2768.8	2950.1	3140.4	3382.1	3579.8	3796.2	3886.5	3907.4
7.5°	1948.1	2034.6	2216.7	2400.2	2636.0	2889.7	3192.6	3529.8	3635.0	3679.1
10°	1544.4	1662.3	1822.0	2019.0	2225.6	2498.7	2840.4	3234.4	3383.6	3408.2
12.5°	1314.6	1446.0	1619.8	1828.0	2023.5	2229.4	2574.1	2980.7	3140.4	3193.4
15°	1051.3	1210.2	1410.9	1630.3	1842.9	2068.2	2417.4	2876.3	3060.5	3122.5
17.5°	825.9	954.3	1171.4	1409.4	1661.6	1946.6	2384.6	2926.2	3153.1	3210.5
20°	632.0	723.7	906.5	1158.0	1453.4	1826.5	2392.8	3115.0	3386.6	3464.9
22.5°	546.2	593.2	704.3	943.8	1274.4	1722.0	2426.4	3373.9	3701.5	3832.0
25°	494.7	519.3	582.0	738.6	1103.5	1620.6	2503.2	3722.3	4141.7	4228.2
27.5°	450.7	468.6	507.4	620.0	948.3	1526.5	2592.7	4108.8	4552.8	4681.8
30°	408.9	432.7	469.3	550.6	849.1	1440.7	2705.4	4422.2	4899.0	5019.1
32.5°	376.8	400.7	434.2	502.1	764.8	1350.5	2772.5	4697.5	5181.7	5284.0
35°	350.7	370.8	405.9	463.3	700.6	1281.8	2759.1	4916.1	5455.6	5560.0
37.5°	332.0	349.2	384.2	426.8	652.1	1210.2	2752.4	5204.9	5789.1	5909.9
40°	314.9	332.8	364.8	402.9	603.6	1125.9	2756.1	5491.4	6144.2	6265.1
42.5°	301.4	321.6	347.7	396.2	553.6	1058.0	2756.1	5740.6	6453.1	6569.5
45°	290.2	311.9	337.2	395.4	514.1	1006.5	2737.5	5954.7	6699.3	6798.6
47.5°	280.5	304.4	341.0	382.0	504.4	969.2	2721.1	6126.3	6900.0	6993.3
50°	273.8	302.2	362.6	366.3	507.4	958.0	2800.2	6342.7	7076.9	7157.4
52.5°	268.6	302.9	361.9	343.2	502.1	965.5	2965.0	6680.7	7322.3	7328.3
55°	258.2	302.2	343.2	317.1	480.5	978.2	3176.9	7171.6	7706.6	7711.0
57.5°	247.7	294.0	318.6	294.7	436.5	978.2	3432.1	7636.4	8169.9	8173.6
60°	237.3	305.9	279.8	275.3	379.0	960.2	3701.5	7840.9	8315.4	8353.5
62.5°	226.8	308.1	249.9	258.2	337.2	917.0	3902.2	7614.8	8118.4	8172.9
65°	214.9	248.5	230.5	240.2	315.6	844.6	3838.7	7200.7	7748.4	7813.3
67.5°	200.7	210.4	209.7	221.6	308.1	737.9	3504.5	6676.9	7349.9	7346.2
70°	183.5	188.8	191.0	203.7	294.0	655.1	2920.3	5997.2	6818.0	6901.5
72.5°	165.6	170.1	172.4	183.5	279.8	608.1	2266.7	5060.9	5905.5	6036.0
75°	146.2	149.2	152.2	161.9	264.9	538.7	1614.6	3863.4	4522.9	4728.1
77.5°	126.1	126.1	129.8	139.5	223.1	444.7	1083.4	2709.9	3064.3	3273.9
80°	102.2	103.0	101.5	111.9	164.1	304.4	615.5	1810.1	2039.1	2079.4
82.5°	78.3	76.1	76.8	82.1	122.4	207.4	328.3	1124.4	1146.0	1123.6
85°	49.2	49.2	47.8	53.7	78.3	108.2	179.1	688.7	537.9	511.8
87.5°	20.1	16.4	18.7	21.6	37.3	44.0	70.1	141.8	54.5	50.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)