

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: P527638

Luminaire Tested: **GALN-SA2C-830-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527638
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-830-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8367 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 108
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

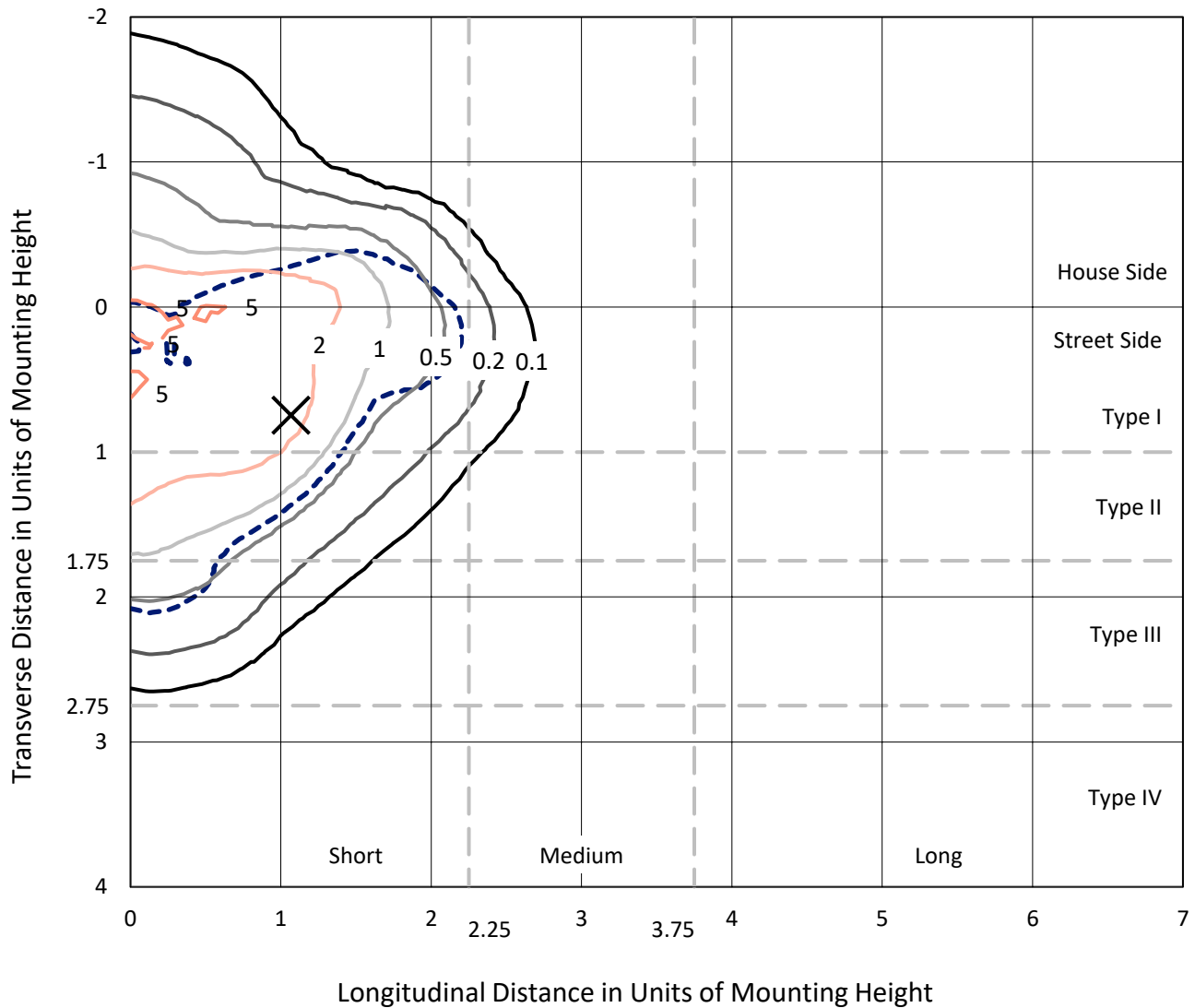


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

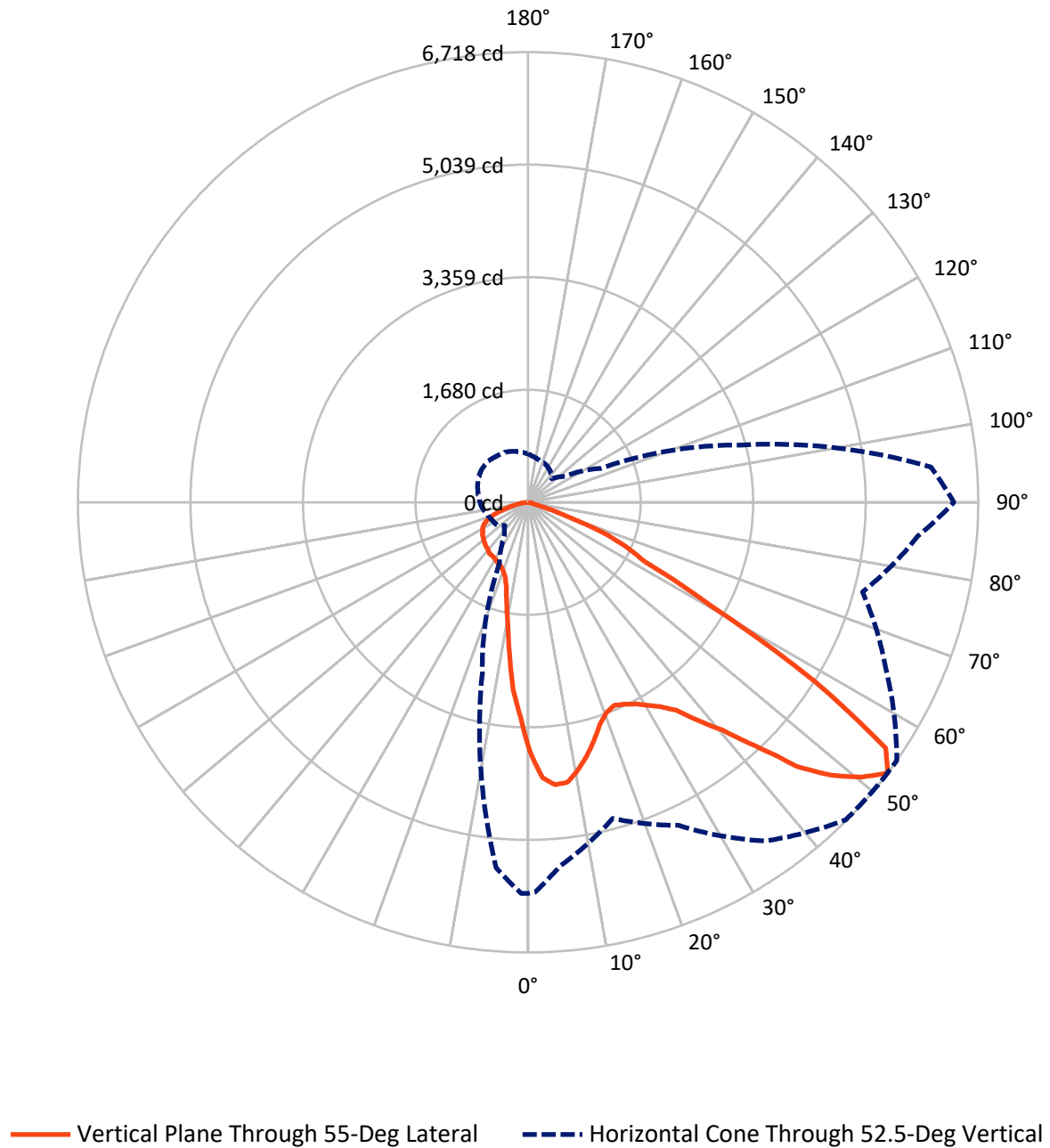


Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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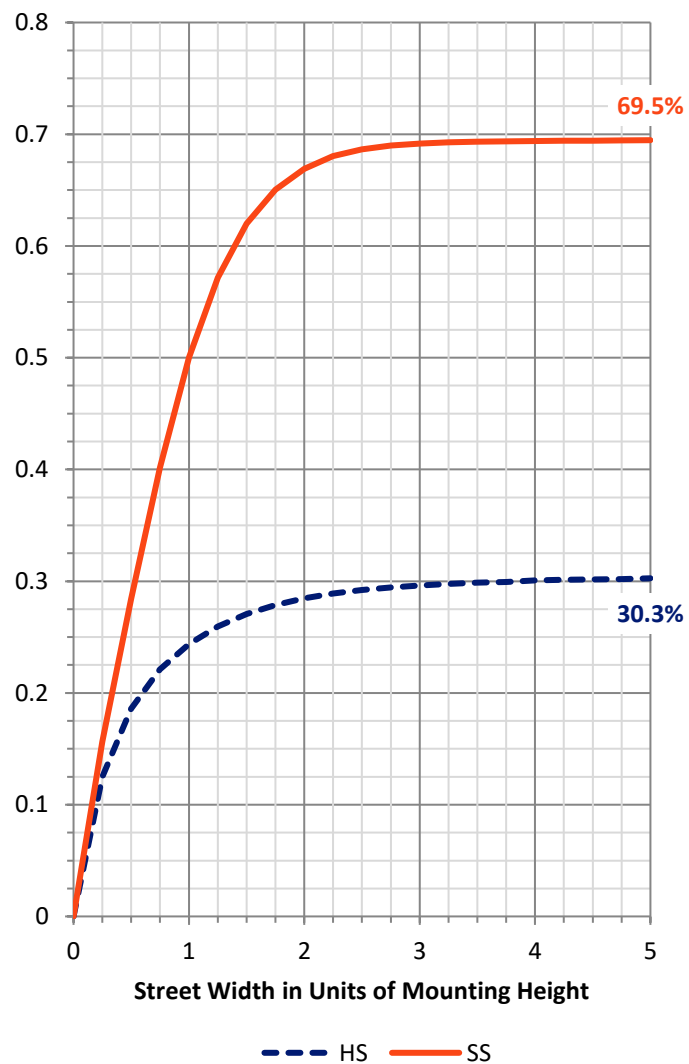
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2552.4	0.0	2552.4
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	5814.6	0.0	5814.6
	% Fixture	69.5	0.0	69.5
Total	Lumens	8367.0	0.0	8367.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.1	3.4
10°-20°	614.8	7.3
20°-30°	932.2	11.1
30°-40°	1346.9	16.1
40°-50°	1799.9	21.5
50°-60°	2009.1	24.0
60°-70°	1102.1	13.2
70°-80°	238.3	2.8
80°-90°	38.5	0.5
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°	8367.0	100.0
0°-180°	8367.0	100.0

Coefficient of Utilization



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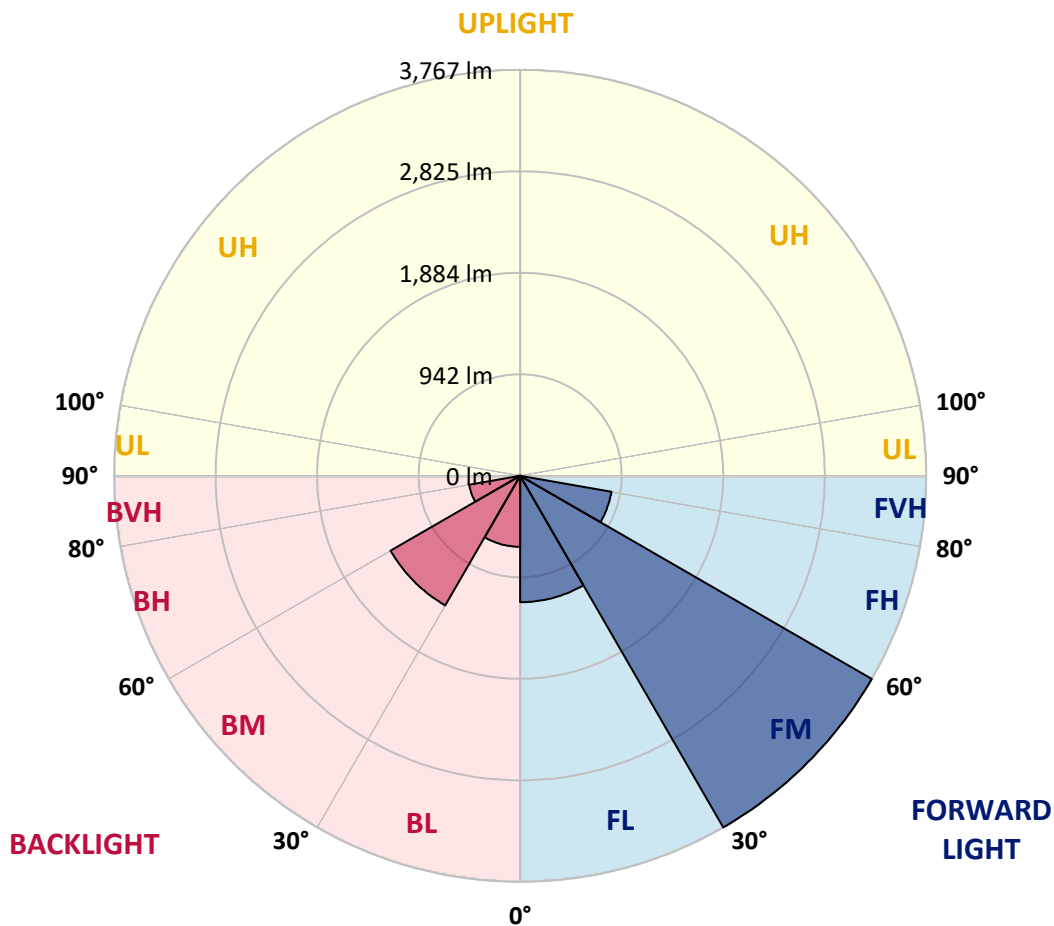
CATALOG NUMBER: GALN-SA2C-830-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1173.2	14.0			
FM	(30°-60°)	3767.2	45.0			
FH	(60°-80°)	859.9	10.3			G1/1800
FVH	(80°-90°)	14.3	0.2			G1/100
BL	(0°-30°)	659.0	7.9	B2/1000		
BM	(30°-60°)	1388.7	16.6	B2/2500		
BH	(60°-80°)	480.4	5.7	B1/500		G1/500
BVH	(80°-90°)	24.3	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3732.3	3732.3	3732.3	3732.3	3732.3	3732.3	3732.3	3732.3	3732.3	3732.3	3732.3
2.5°	3916.8	3894.8	3914.4	4007.2	4061.0	4097.6	4120.8	4117.2	4029.2	3943.7	3943.7
5°	3802.0	3773.9	3814.2	4024.3	4235.7	4254.0	4284.5	4234.5	4105.0	3948.6	3753.1
7.5°	3469.7	3490.4	3557.6	3833.7	4108.6	4246.7	4283.3	4219.8	4009.7	3717.7	3430.6
10°	3182.6	3231.4	3386.6	3684.7	3937.6	4117.2	4157.5	4068.3	3902.1	3544.2	3287.6
12.5°	3083.6	3053.1	3225.3	3523.4	3765.3	3861.8	3880.2	3886.3	3773.9	3456.2	3143.5
15°	3071.4	3090.9	3225.3	3451.3	3600.4	3605.3	3635.8	3683.5	3698.1	3516.1	3210.7
17.5°	3247.3	3224.1	3362.2	3541.7	3470.9	3400.0	3407.4	3475.8	3596.7	3567.4	3422.0
20°	3507.5	3560.1	3668.8	3650.5	3459.9	3280.3	3281.5	3346.3	3584.5	3780.0	3716.4
22.5°	3940.0	3991.3	4072.0	3850.8	3459.9	3244.9	3203.3	3291.3	3662.7	4032.9	4048.8
25°	4334.6	4428.7	4450.7	4190.5	3633.4	3277.9	3251.0	3337.7	3740.9	4279.7	4429.9
27.5°	4693.8	4728.0	4824.5	4409.2	3729.9	3299.8	3297.4	3408.6	3839.8	4403.0	4770.8
30°	4977.3	4973.6	5028.6	4547.2	3883.8	3423.2	3304.7	3514.9	3969.3	4607.1	5086.0
32.5°	5170.3	5211.8	5327.9	4739.0	3948.6	3540.5	3447.7	3639.5	4126.9	4703.6	5308.3
35°	5509.9	5582.0	5435.4	4845.3	4153.8	3656.6	3547.9	3809.3	4205.1	4808.7	5580.8
37.5°	5830.0	5775.0	5626.0	4902.7	4287.0	3871.6	3770.2	4137.9	4448.3	5037.1	5761.6
40°	6035.3	6034.0	5768.9	4949.2	4381.1	4200.2	4194.1	4471.5	4746.3	5181.3	5964.4
42.5°	6124.4	6210.0	5827.6	4944.3	4579.0	4598.5	4721.9	4969.9	4957.7	5210.6	5959.5
44°	6246.6	6297.9	5929.0	4955.3	4710.9	4867.3	5158.1	5315.7	5142.2	5194.7	5953.4
45°	6241.7	6245.4	5784.8	4969.9	4823.3	5092.1	5352.3	5618.7	5304.7	5160.5	6034.0
47.5°	6098.8	6057.2	5662.6	4861.2	5173.9	5685.8	5926.5	6087.8	5505.0	5087.2	5933.9
50°	5816.6	5768.9	5365.8	4814.8	5247.3	6054.8	6387.1	6445.8	5687.1	5015.1	5834.9
52.5°	5836.1	5822.7	5450.1	4884.4	5320.6	6170.9	6703.5	6718.2	5893.5	5166.6	5836.1
55°	6185.5	6139.1	5692.0	4971.1	5266.8	6035.3	6501.9	6476.3	5823.9	5075.0	5943.6
57.5°	5660.2	5690.7	5357.2	4627.8	4609.5	4906.4	5111.6	5048.1	4860.0	4580.2	5529.5
60°	4566.8	4653.5	4685.3	3870.4	3478.2	3325.5	3264.4	3152.0	3183.8	3762.9	4857.5
62.5°	3916.8	3911.9	4111.1	3508.8	2278.5	1959.6	1930.3	1956.0	2322.5	3704.2	4757.3
65°	3105.6	3188.7	3249.8	2973.6	1803.2	1455.1	1453.8	1616.3	2009.7	3095.8	3841.1
67.5°	1971.8	2080.6	2156.3	1902.2	1205.8	1036.0	1007.9	1203.4	1392.8	2030.5	2312.7
70°	1111.8	1163.1	1197.3	1097.1	767.2	537.6	505.8	552.2	841.8	1314.6	1370.8
72.5°	428.8	452.0	498.5	502.1	289.5	173.5	140.5	168.6	354.3	520.4	496.0
75°	66.0	70.9	100.2	119.7	83.1	63.5	67.2	69.6	99.0	134.4	112.4
77.5°	31.8	31.8	30.5	35.4	41.5	45.2	48.9	53.8	58.6	64.8	62.3
80°	20.8	20.8	20.8	24.4	30.5	36.7	41.5	44.0	46.4	51.3	48.9
82.5°	13.4	13.4	13.4	18.3	24.4	30.5	33.0	39.1	44.0	51.3	47.6
85°	7.3	7.3	7.3	12.2	18.3	25.7	24.4	19.5	11.0	1.2	2.4
87.5°	2.4	2.4	2.4	2.4	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°	3732.3	3732.3	3732.3	3732.3	3732.3	3732.3	3732.3	3732.3	3732.3	3732.3	3732.3
2.5°	3841.1	3784.9	3780.0	3665.1	3562.5	3512.4	3472.1	3359.7	3384.1	3319.4	3318.2
5°	3655.4	3540.5	3354.8	3202.1	3049.4	3018.8	2885.7	2769.6	2773.3	2690.2	2704.9
7.5°	3321.8	3242.4	3016.4	2777.0	2574.1	2430.0	2304.1	2228.4	2131.9	2098.9	2081.8
10°	3110.5	3012.7	2758.6	2458.1	2230.8	2153.9	2032.9	1965.7	1866.8	1817.9	1783.7
12.5°	3017.6	2874.7	2557.0	2251.6	2100.1	2020.7	1918.1	1795.9	1678.6	1633.4	1571.1
15°	3027.4	2856.4	2498.4	2168.5	1986.5	1832.6	1740.9	1605.3	1485.6	1406.2	1361.0
17.5°	3175.2	2967.5	2525.3	2105.0	1843.6	1650.5	1470.9	1324.3	1229.0	1169.2	1154.5
20°	3524.6	3242.4	2570.5	2002.4	1700.6	1459.9	1238.8	1086.1	1012.8	1011.6	1012.8
22.5°	3815.4	3535.6	2662.1	1941.3	1557.7	1215.6	995.7	946.8	932.2	962.7	966.4
25°	4207.6	3865.5	2819.7	1909.5	1425.7	1036.0	900.4	882.1	880.9	919.9	921.2
27.5°	4609.5	4153.8	2913.8	1816.7	1291.3	943.2	843.0	839.3	858.9	900.4	896.7
30°	4883.2	4395.7	3083.6	1705.5	1132.5	861.3	819.8	824.7	851.5	883.3	888.2
32.5°	5202.0	4634.0	3127.6	1644.4	1034.8	792.9	763.6	774.6	808.8	858.9	885.7
35°	5567.3	4802.5	3194.8	1561.3	998.1	740.4	725.7	737.9	779.5	812.4	841.8
37.5°	5837.3	5100.6	3207.0	1496.6	957.8	711.0	687.8	728.1	752.6	799.0	813.7
40°	6037.7	5316.9	3238.8	1456.3	926.1	673.2	673.2	700.0	733.0	775.8	805.1
42.5°	6166.0	5474.5	3262.0	1419.6	865.0	662.2	656.1	682.9	726.9	768.5	781.9
44°	6244.2	5541.7	3238.8	1385.4	847.9	648.7	648.7	671.9	706.1	755.0	770.9
45°	6263.7	5626.0	3187.4	1384.2	827.1	632.8	630.4	674.4	697.6	757.5	767.2
47.5°	6339.5	5729.8	3193.6	1345.1	777.0	595.0	637.7	657.3	678.0	730.6	763.6
50°	6337.0	5794.6	3180.1	1287.7	740.4	552.2	623.1	645.1	665.8	719.6	733.0
52.5°	6354.1	6036.5	3303.5	1196.1	674.4	497.2	574.2	623.1	648.7	693.9	722.0
55°	6345.6	6174.5	3425.7	1127.6	581.5	464.3	532.7	590.1	626.7	674.4	687.8
57.5°	5795.8	5457.4	3170.3	999.4	481.4	425.2	474.0	555.9	602.3	651.2	668.3
60°	4735.4	4206.4	2614.5	735.5	395.8	390.9	441.0	544.9	564.4	607.2	636.5
62.5°	4376.2	3689.6	2073.2	562.0	338.4	358.0	406.8	492.3	522.9	575.4	602.3
65°	3424.5	2450.8	1284.0	380.0	298.1	321.3	367.7	431.3	481.4	530.2	562.0
67.5°	2028.0	1339.0	635.3	266.3	260.2	284.7	332.3	380.0	437.4	491.1	507.0
70°	1104.4	658.5	271.2	202.8	221.1	243.1	289.5	322.5	377.5	419.0	445.9
72.5°	354.3	200.4	135.6	150.3	168.6	194.3	222.4	262.7	301.8	326.2	348.2
75°	85.5	84.3	96.5	105.1	122.2	141.7	164.9	185.7	216.2	239.5	259.0
77.5°	59.9	64.8	74.5	86.7	92.9	100.2	114.8	130.7	144.2	161.3	173.5
80°	46.4	50.1	57.4	63.5	69.6	75.7	83.1	89.2	97.7	108.7	114.8
82.5°	44.0	46.4	53.8	57.4	55.0	53.8	58.6	61.1	62.3	66.0	69.6
85°	3.7	0.0	2.4	8.6	20.8	30.5	33.0	33.0	31.8	34.2	34.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	4.9	3.7
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°	3732.3	3732.3	3732.3	3732.3	3732.3	3732.3	3732.3	3732.3	3732.3	3732.3	3732.3
2.5°	3303.5	3262.0	3277.9	3297.4	3269.3	3204.5	3221.7	3214.3	3280.3	3275.4	3341.4
5°	2769.6	2704.9	2712.2	2807.5	2777.0	2809.9	2744.0	2735.4	2747.6	2753.7	2764.7
7.5°	2119.7	2111.1	2184.4	2265.1	2302.9	2263.8	2199.1	2184.4	2171.0	2144.1	2205.2
10°	1729.9	1732.4	1727.5	1788.6	1831.3	1822.8	1783.7	1778.8	1753.2	1743.4	1777.6
12.5°	1544.2	1511.3	1495.4	1475.8	1508.8	1530.8	1513.7	1501.5	1502.7	1514.9	1519.8
15°	1364.7	1343.9	1309.7	1287.7	1303.6	1292.6	1286.5	1310.9	1304.8	1302.3	1331.7
17.5°	1163.1	1180.2	1177.7	1153.3	1174.1	1165.5	1164.3	1147.2	1124.0	1106.9	1116.6
20°	1029.9	1061.7	1086.1	1087.3	1098.3	1097.1	1078.8	1026.2	1009.1	1005.5	1007.9
22.5°	982.3	999.4	1028.7	1070.2	1070.2	1050.7	1028.7	967.6	951.7	934.6	927.3
25°	944.4	977.4	1015.2	1020.1	1039.7	1021.4	985.9	955.4	922.4	899.2	899.2
27.5°	924.8	961.5	989.6	998.1	1025.0	1010.4	973.7	934.6	895.5	894.3	873.5
30°	916.3	950.5	968.8	989.6	1001.8	978.6	967.6	926.1	887.0	877.2	843.0
32.5°	890.6	939.5	973.7	968.8	978.6	968.8	952.9	918.7	874.7	852.8	849.1
35°	861.3	910.2	946.8	972.5	978.6	957.8	948.0	901.6	841.8	830.8	792.9
37.5°	845.4	874.7	919.9	961.5	970.0	959.0	926.1	878.4	818.5	806.3	773.3
40°	825.9	863.8	899.2	933.4	959.0	932.2	894.3	847.9	821.0	784.3	774.6
42.5°	811.2	854.0	883.3	921.2	950.5	915.1	871.1	839.3	801.4	777.0	748.9
44°	806.3	845.4	865.0	911.4	935.8	909.0	872.3	839.3	795.3	773.3	748.9
45°	789.2	843.0	863.8	905.3	926.1	904.1	857.6	824.7	792.9	766.0	740.4
47.5°	772.1	808.8	844.2	877.2	891.8	884.5	845.4	805.1	767.2	751.4	726.9
50°	767.2	803.9	836.9	867.4	884.5	869.9	834.4	795.3	751.4	725.7	704.9
52.5°	742.8	788.0	824.7	834.4	856.4	847.9	821.0	778.2	736.7	714.7	697.6
55°	707.4	755.0	805.1	817.3	849.1	835.7	795.3	755.0	719.6	686.6	664.6
57.5°	693.9	740.4	789.2	805.1	824.7	802.7	792.9	750.1	693.9	676.8	642.6
60°	659.7	718.4	758.7	795.3	796.6	790.4	773.3	724.5	678.0	646.3	621.9
62.5°	632.8	687.8	719.6	753.8	774.6	757.5	740.4	695.2	645.1	609.6	581.5
65°	593.8	643.8	670.7	691.5	714.7	712.3	682.9	650.0	597.4	569.3	542.4
67.5°	533.9	577.9	614.5	634.1	648.7	645.1	623.1	599.9	546.1	518.0	498.5
70°	461.8	507.0	530.2	541.2	555.9	563.2	546.1	535.1	487.5	450.8	432.5
72.5°	371.4	400.7	434.9	444.7	450.8	455.7	455.7	445.9	397.1	382.4	350.6
75°	273.7	296.9	322.5	322.5	333.5	334.7	337.2	331.1	294.4	274.9	267.6
77.5°	185.7	202.8	223.6	232.1	239.5	238.2	237.0	219.9	200.4	191.8	184.5
80°	120.9	138.1	147.8	158.8	166.2	164.9	167.4	155.2	146.6	131.9	134.4
82.5°	72.1	85.5	95.3	108.7	108.7	112.4	112.4	108.7	100.2	92.9	92.9
85°	34.2	45.2	51.3	59.9	64.8	66.0	58.6	50.1	41.5	37.9	41.5
87.5°	6.1	8.6	12.2	11.0	13.4	12.2	12.2	12.2	12.2	9.8	11.0
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-SA2C-830-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3732.3	3732.3	3732.3	3732.3	3732.3	3732.3	3732.3	3732.3	3732.3	3732.3
2.5°	3316.9	3378.0	3420.8	3491.7	3613.8	3711.6	3811.7	3886.3	3894.8	3916.8
5°	2805.1	2838.0	2946.8	3088.5	3188.7	3353.6	3459.9	3652.9	3725.0	3802.0
7.5°	2190.5	2244.3	2389.7	2485.0	2704.9	2911.3	3125.1	3363.4	3458.7	3469.7
10°	1847.2	1925.4	2024.4	2177.1	2296.8	2526.5	2792.8	3057.9	3164.2	3182.6
12.5°	1622.4	1722.6	1854.6	1964.5	2079.4	2279.7	2535.1	2862.5	3000.5	3083.6
15°	1406.2	1510.0	1655.4	1808.1	1909.5	2149.0	2449.5	2818.5	2998.1	3071.4
17.5°	1183.8	1280.4	1400.1	1565.0	1769.0	2037.8	2436.1	2965.1	3161.8	3247.3
20°	993.3	1047.0	1186.3	1356.1	1611.4	1924.2	2441.0	3181.3	3469.7	3507.5
22.5°	918.7	930.9	985.9	1142.3	1422.1	1808.1	2527.7	3488.0	3815.4	3940.0
25°	861.3	858.9	873.5	978.6	1284.0	1762.9	2613.2	3770.2	4199.0	4334.6
27.5°	829.5	805.1	806.3	905.3	1186.3	1689.6	2723.2	4094.0	4634.0	4693.8
30°	813.7	808.8	794.1	834.4	1080.0	1579.7	2741.5	4412.8	4890.5	4977.3
32.5°	803.9	756.2	737.9	752.6	979.8	1459.9	2809.9	4623.0	5208.2	5170.3
35°	755.0	712.3	700.0	714.7	909.0	1392.8	2764.7	4806.2	5446.4	5509.9
37.5°	736.7	698.8	674.4	662.2	843.0	1336.6	2741.5	5088.4	5677.3	5830.0
40°	719.6	679.3	650.0	637.7	791.7	1262.0	2734.2	5305.9	5943.6	6035.3
42.5°	700.0	674.4	641.4	619.4	729.4	1187.5	2649.9	5373.1	6025.5	6124.4
44°	693.9	654.8	620.6	613.3	704.9	1149.6	2632.8	5434.2	6096.3	6246.6
45°	687.8	651.2	612.1	602.3	696.4	1128.9	2609.6	5448.8	6213.6	6241.7
47.5°	670.7	647.5	609.6	582.8	678.0	1083.7	2539.9	5365.8	6093.9	6098.8
50°	657.3	630.4	591.3	538.8	653.6	1045.8	2571.7	5335.2	5805.6	5816.6
52.5°	642.6	602.3	580.3	489.9	613.3	1014.0	2638.9	5473.3	5838.6	5836.1
55°	625.5	581.5	527.8	448.4	546.1	973.7	2801.4	5745.7	6144.0	6185.5
57.5°	598.6	560.8	483.8	411.7	469.1	896.7	2748.9	5224.0	5652.9	5660.2
60°	563.2	527.8	438.6	383.6	384.8	707.4	2458.1	4070.7	4460.5	4566.8
62.5°	529.0	509.5	400.7	343.3	327.4	563.2	2078.1	3382.9	3828.8	3916.8
65°	488.7	441.0	367.7	312.8	281.0	394.6	1472.2	2527.7	2987.1	3105.6
67.5°	437.4	386.1	323.8	274.9	240.7	263.9	759.9	1436.7	1902.2	1971.8
70°	382.4	334.7	272.4	232.1	194.3	182.0	334.7	685.4	1039.7	1111.8
72.5°	314.0	270.0	217.5	183.3	145.4	125.8	112.4	183.3	369.0	428.8
75°	227.2	196.7	163.7	130.7	102.6	80.6	66.0	55.0	61.1	66.0
77.5°	167.4	142.9	120.9	92.9	72.1	57.4	45.2	34.2	33.0	31.8
80°	130.7	116.1	96.5	74.5	56.2	42.8	31.8	23.2	20.8	20.8
82.5°	102.6	95.3	79.4	61.1	46.4	34.2	23.2	15.9	13.4	13.4
85°	39.1	39.1	57.4	50.1	35.4	24.4	15.9	8.6	7.3	7.3
87.5°	9.8	9.8	9.8	9.8	8.6	7.3	7.3	3.7	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)