

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: P452698

Luminaire Tested: **GALN-SA3C-830-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452698
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-SA3C-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA 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: 11977 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 160
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

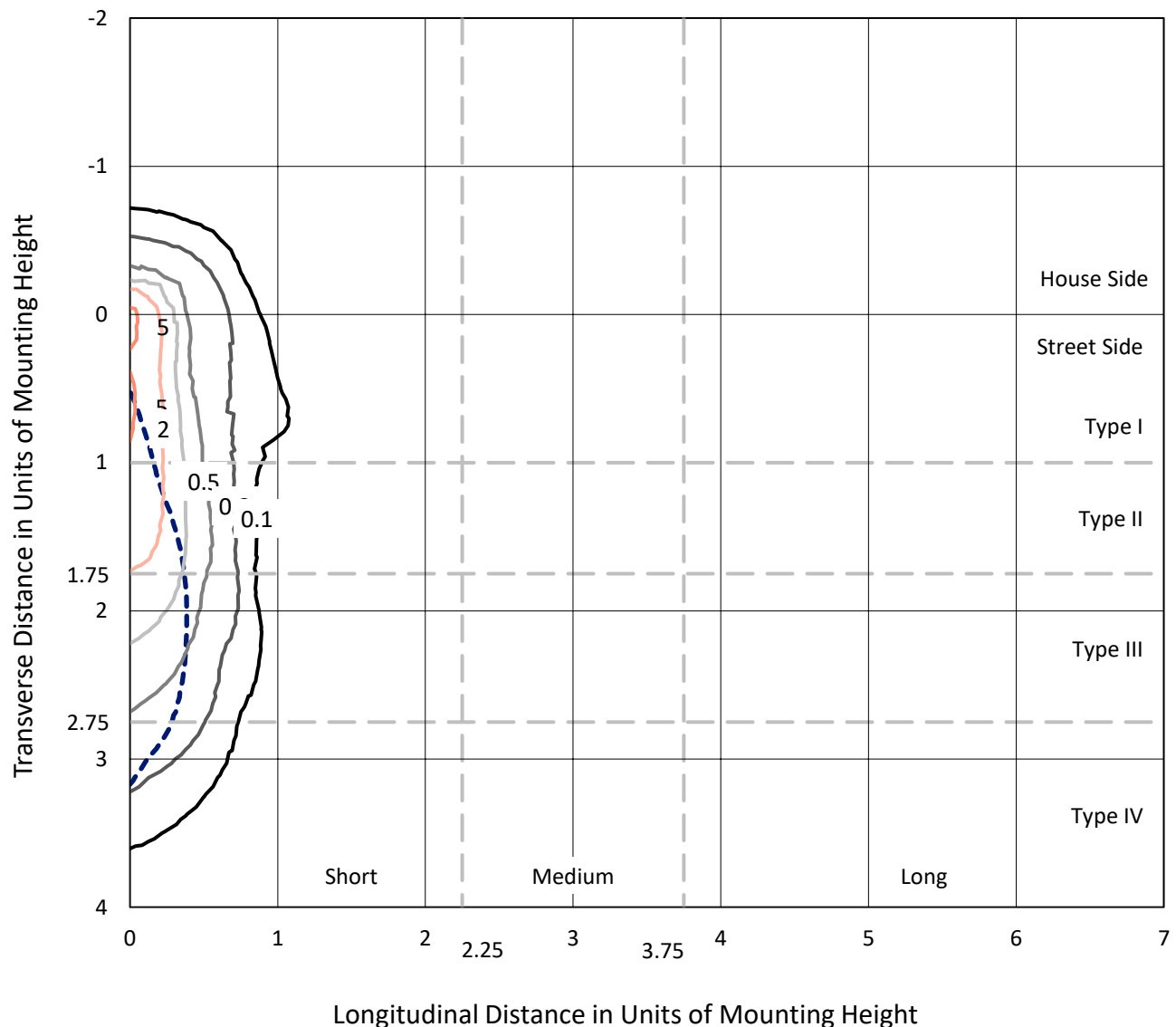


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Iso-Footcandle Lines of Horizontal Illumination

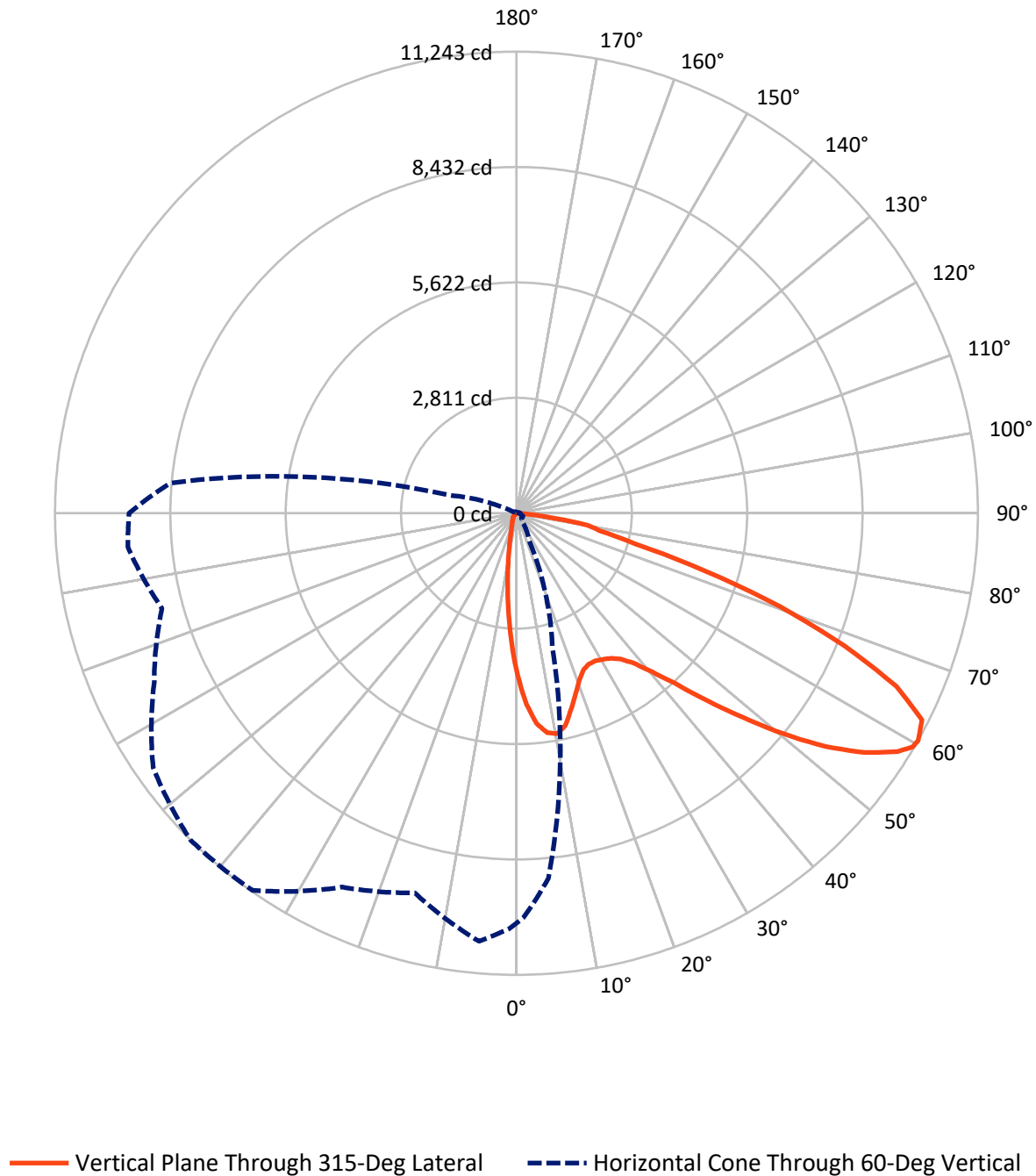
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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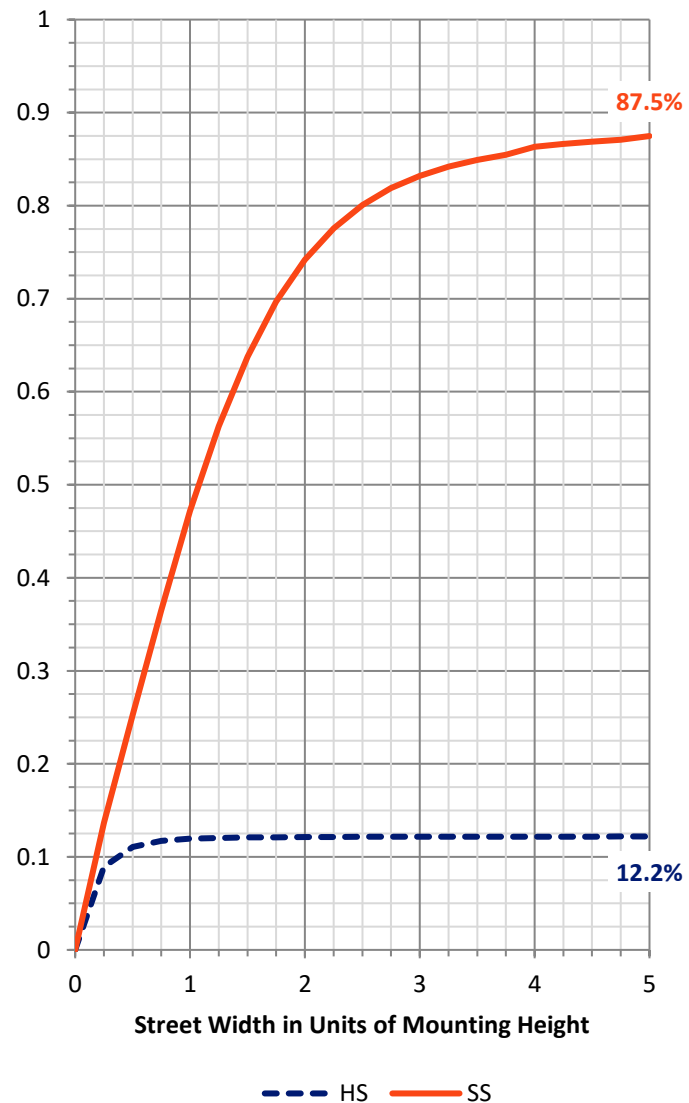
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1477.2	0.0	1477.2
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	10499.8	0.0	10499.8
	% Fixture	87.7	0.0	87.7
Total	Lumens	11977.0	0.0	11977.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.4	2.5
10°-20°	584.7	4.9
20°-30°	857.4	7.2
30°-40°	1275.1	10.6
40°-50°	1855.6	15.5
50°-60°	2675.9	22.3
60°-70°	2943.3	24.6
70°-80°	1318.3	11.0
80°-90°	172.3	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°	11977.0	100.0
0°-180°	11977.0	100.0

Coefficient of Utilization



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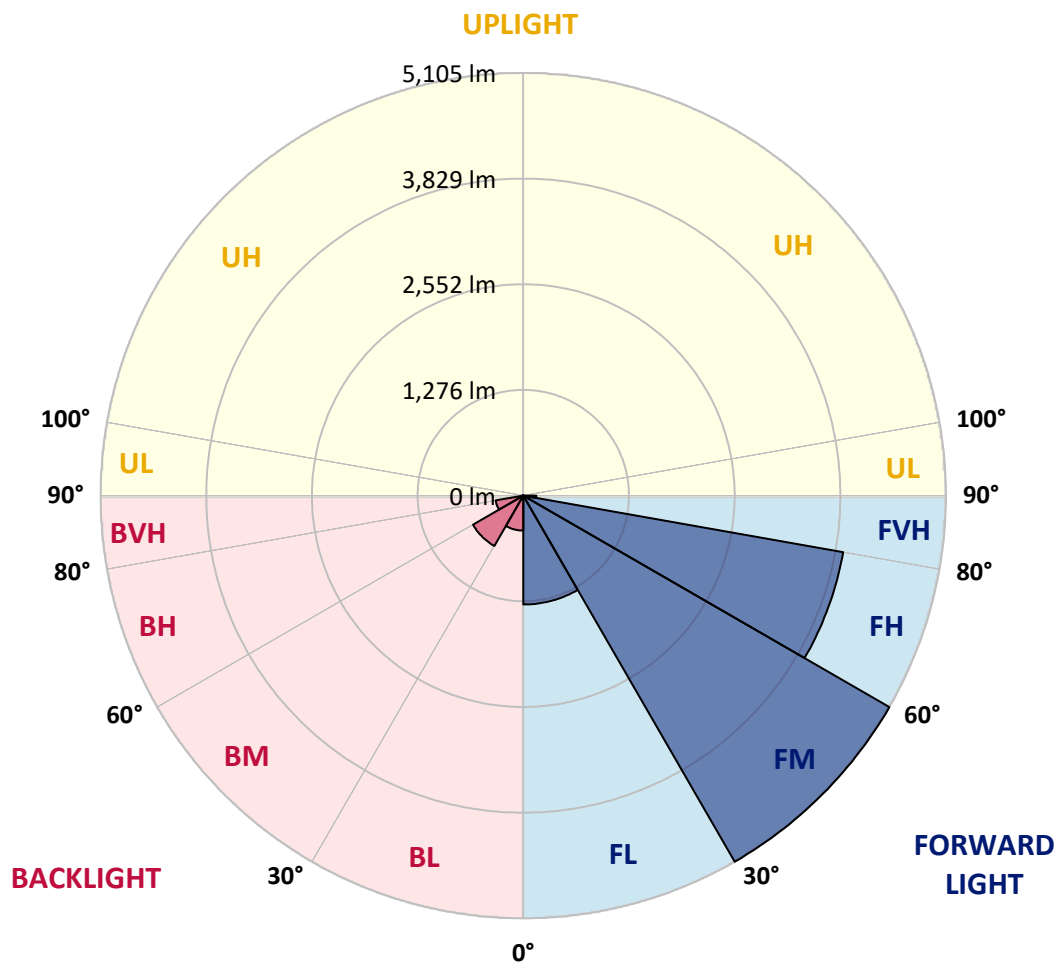
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1314.4	11.0			
FM	(30°-60°)	5105.0	42.6			
FH	(60°-80°)	3922.8	32.8			G2/5000
FVH	(80°-90°)	157.5	1.3			G2/225
BL	(0°-30°)	422.1	3.5	B1/500		
BM	(30°-60°)	701.7	5.9	B1/1000		
BH	(60°-80°)	338.8	2.8	B1/500		G1/500
BVH	(80°-90°)	14.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3958.6	3958.6	3958.6	3958.6	3958.6	3958.6	3958.6	3958.6	3958.6	3958.6	3958.6
2.5°	4351.9	4332.8	4289.1	4156.1	4040.5	3889.4	3736.4	3616.2	3542.5	3406.8	3344.9
5°	4216.2	4225.3	4098.8	3825.6	3521.6	3314.0	3087.3	2907.0	2708.5	2582.9	2450.9
7.5°	3862.1	3843.9	3706.4	3325.8	2956.2	2655.7	2369.0	2135.9	1989.3	1871.9	1773.5
10°	3558.9	3545.2	3369.5	2879.7	2482.8	2257.9	2064.0	1860.0	1702.5	1530.4	1393.0
12.5°	3368.6	3337.7	3135.5	2623.9	2300.7	2091.3	1880.0	1667.9	1450.3	1276.4	1109.8
15°	3304.9	3260.3	3035.4	2535.6	2184.1	1918.3	1653.3	1409.4	1159.0	966.9	841.2
17.5°	3420.5	3346.8	3107.3	2520.1	2044.8	1692.5	1366.6	1048.8	788.4	641.9	564.5
20°	3685.4	3600.8	3289.4	2504.6	1890.1	1439.4	1038.8	741.1	545.4	465.2	422.4
22.5°	4078.7	3962.2	3558.9	2529.2	1747.1	1192.7	750.2	523.5	433.4	383.3	353.2
25°	4551.3	4453.8	3900.3	2616.6	1634.2	998.7	579.9	427.9	365.1	334.1	311.4
27.5°	5069.3	4913.6	4341.9	2721.3	1531.4	848.5	508.9	382.4	325.0	296.8	285.0
30°	5438.0	5316.9	4711.5	2794.1	1403.0	735.6	465.2	376.9	325.9	292.2	270.4
32.5°	5802.2	5647.4	5021.0	2827.8	1309.2	657.3	402.4	328.7	285.9	268.6	246.7
35°	6191.9	6029.8	5329.7	2809.6	1239.1	605.4	365.1	293.2	244.9	215.8	193.9
37.5°	6586.1	6414.9	5636.5	2744.0	1195.4	584.5	336.0	278.6	231.3	201.2	177.5
40°	7054.0	6825.5	5924.2	2690.3	1149.9	573.6	316.8	269.5	221.2	189.4	165.7
42.5°	7436.4	7218.8	6196.4	2662.1	1118.9	548.1	316.8	262.2	214.9	179.4	154.8
45°	7798.8	7573.0	6490.5	2684.9	1106.2	516.2	320.5	261.3	210.3	172.1	147.5
47.5°	8102.0	7906.2	6792.8	2770.5	1089.8	481.6	301.4	274.0	207.6	165.7	140.2
50°	8459.8	8270.4	7192.4	2943.4	1060.7	447.0	277.7	295.0	206.7	160.2	133.8
52.5°	8964.1	8759.3	7744.2	3140.1	1014.2	394.2	255.8	292.2	203.0	151.1	127.5
55°	9580.5	9414.8	8383.3	3375.9	950.5	335.0	221.2	259.5	192.1	135.7	116.5
57.5°	9975.6	9834.5	8862.2	3477.9	853.1	274.0	194.8	217.6	175.7	121.1	103.8
59°	10022.1	9894.6	8962.3	3444.2	789.3	250.4	182.1	186.6	171.2	112.9	96.5
60°	9982.9	9850.9	8922.3	3378.6	730.2	234.0	171.2	165.7	172.1	108.3	91.0
62.5°	9731.6	9505.8	8533.5	3046.3	638.2	214.9	152.0	135.7	152.0	97.4	81.0
65°	9246.4	8907.7	7764.2	2578.4	601.8	203.9	129.3	113.8	115.6	85.6	70.1
67.5°	8398.8	7971.8	6739.9	2094.9	586.3	204.8	109.3	102.0	89.2	72.8	61.9
70°	7058.6	6632.5	5408.0	1723.5	579.0	204.8	92.9	87.4	74.7	61.0	53.7
72.5°	5001.9	4543.1	3648.1	1353.8	521.7	203.9	79.2	79.2	61.0	51.0	43.7
75°	2826.0	2829.6	2293.4	957.8	433.4	168.4	63.7	62.8	44.6	39.1	32.8
77.5°	1647.0	1617.8	1545.9	411.5	201.2	76.5	44.6	38.2	31.0	28.2	23.7
80°	846.7	696.5	678.3	149.3	71.9	48.3	31.0	21.9	20.0	18.2	16.4
82.5°	250.4	251.3	224.0	60.1	40.1	31.9	15.5	11.8	10.9	10.0	10.0
85°	17.3	10.9	12.7	18.2	24.6	12.7	0.9	2.7	2.7	3.6	4.6
87.5°	1.8	0.9	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°	3958.6	3958.6	3958.6	3958.6	3958.6	3958.6	3958.6	3958.6	3958.6	3958.6	3958.6
2.5°	3276.7	3316.7	3242.1	3243.9	3182.0	3202.0	3129.2	3152.8	3110.0	3142.8	3239.3
5°	2465.5	2474.6	2414.5	2395.4	2404.5	2441.8	2456.4	2389.9	2418.1	2362.6	2358.9
7.5°	1737.1	1748.0	1713.4	1708.9	1774.4	1759.0	1787.2	1718.9	1654.3	1682.5	1630.6
10°	1349.3	1303.7	1232.7	1212.7	1200.0	1208.1	1208.1	1146.2	1137.1	1112.6	1149.9
12.5°	1065.2	1009.7	942.3	851.3	828.5	826.7	793.0	738.4	721.1	700.1	731.1
15°	773.9	751.1	694.7	643.7	591.8	581.8	527.1	482.5	423.4	415.2	412.4
17.5°	544.4	510.8	509.8	480.7	450.7	430.6	379.7	328.7	305.9	303.2	303.2
20°	407.9	396.0	376.9	373.3	364.2	341.4	295.9	268.6	257.7	258.6	262.2
22.5°	343.2	335.0	317.7	309.5	305.9	285.9	252.2	234.0	228.5	228.5	229.4
25°	306.8	299.5	280.4	267.7	263.1	248.5	222.1	208.5	203.9	203.9	203.9
27.5°	279.5	270.4	250.4	239.4	231.3	214.9	198.5	184.8	180.3	180.3	181.2
30°	260.4	250.4	232.2	217.6	204.8	190.3	176.6	164.8	159.3	158.4	159.3
32.5°	234.9	225.8	207.6	198.5	183.9	166.6	155.7	144.8	139.3	140.2	139.3
35°	183.0	180.3	167.5	170.3	162.1	147.5	137.5	125.6	119.3	118.4	120.2
37.5°	166.6	155.7	141.1	142.0	139.3	133.8	117.4	104.7	100.1	100.1	101.1
40°	153.9	142.9	126.6	118.4	119.3	119.3	102.0	88.3	83.8	82.8	84.7
42.5°	142.9	132.0	113.8	100.1	96.5	101.1	86.5	72.8	68.3	66.5	68.3
45°	135.7	123.8	102.9	87.4	76.5	81.9	71.0	60.1	54.6	54.6	53.7
47.5°	128.4	117.4	94.7	75.6	63.7	61.0	58.3	48.3	42.8	41.9	42.8
50°	122.0	111.1	85.6	65.6	53.7	47.3	47.3	38.2	34.6	32.8	33.7
52.5°	115.6	103.8	77.4	58.3	46.4	38.2	33.7	31.0	28.2	27.3	28.2
55°	106.5	94.7	69.2	50.1	40.1	31.9	26.4	25.5	23.7	21.9	23.7
57.5°	95.6	84.7	61.0	42.8	31.9	24.6	21.9	20.9	19.1	18.2	18.2
59°	89.2	79.2	56.4	37.3	28.2	21.9	20.0	19.1	17.3	15.5	16.4
60°	85.6	77.4	53.7	34.6	25.5	20.0	18.2	17.3	15.5	14.6	15.5
62.5°	75.6	69.2	47.3	28.2	20.0	14.6	12.7	13.7	12.7	11.8	12.7
65°	66.5	61.0	40.1	21.9	15.5	10.0	9.1	11.8	10.9	10.0	10.9
67.5°	59.2	52.8	33.7	16.4	10.9	5.5	6.4	10.0	10.0	9.1	10.0
70°	51.0	45.5	27.3	11.8	5.5	2.7	4.6	7.3	9.1	8.2	9.1
72.5°	41.9	35.5	20.9	8.2	2.7	0.0	2.7	6.4	9.1	8.2	9.1
75°	32.8	26.4	15.5	4.6	0.0	0.0	0.9	5.5	9.1	8.2	9.1
77.5°	23.7	19.1	9.1	0.9	0.0	0.0	0.9	5.5	9.1	8.2	9.1
80°	15.5	13.7	3.6	0.0	0.0	0.0	0.9	5.5	9.1	9.1	10.0
82.5°	10.0	7.3	0.0	0.0	0.0	0.0	1.8	7.3	10.0	10.9	10.9
85°	4.6	0.0	0.0	0.0	0.0	0.0	3.6	9.1	11.8	11.8	11.8
87.5°	0.0	0.0	0.0	0.0	0.0	1.8	6.4	10.9	13.7	13.7	13.7
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°	3958.6	3958.6	3958.6	3958.6	3958.6	3958.6	3958.6	3958.6	3958.6	3958.6	3958.6
2.5°	3255.7	3313.1	3394.1	3518.8	3619.9	3779.2	3901.2	4067.8	4236.3	4287.2	4366.4
5°	2396.3	2470.0	2653.9	2821.4	2927.0	3263.9	3476.9	3812.9	4114.3	4259.0	4416.5
7.5°	1664.3	1751.7	1891.9	2125.9	2348.0	2622.1	2966.2	3350.4	3792.0	3998.6	4220.8
10°	1168.1	1277.3	1474.9	1667.0	1946.5	2206.9	2546.5	2970.7	3457.8	3701.8	3980.4
12.5°	737.5	834.9	1096.2	1311.9	1660.6	1962.9	2276.1	2660.3	3224.8	3475.1	3767.4
15°	421.5	503.5	625.5	902.2	1289.2	1688.9	2079.4	2525.5	3105.5	3414.1	3730.1
17.5°	314.1	336.0	390.6	547.2	899.5	1366.6	1898.3	2484.6	3186.5	3548.9	3909.4
20°	264.0	278.6	304.1	366.0	573.6	1052.5	1721.6	2491.9	3448.7	3903.9	4246.3
22.5°	236.7	245.8	266.8	306.8	391.5	766.6	1515.0	2534.6	3766.5	4340.0	4735.2
25°	207.6	219.4	237.6	272.2	325.9	531.7	1311.0	2630.2	4211.7	4893.6	5265.0
27.5°	184.8	195.7	214.0	245.8	285.9	406.1	1073.4	2712.2	4681.5	5450.8	5754.9
30°	162.1	173.0	191.2	216.7	253.1	328.7	817.6	2760.4	5137.6	5868.7	6102.6
32.5°	142.9	152.0	169.3	192.1	222.1	278.6	644.6	2710.4	5486.3	6248.3	6404.9
35°	123.8	134.7	149.3	170.3	196.7	237.6	536.2	2537.4	5785.8	6638.9	6695.3
37.5°	103.8	116.5	132.0	151.1	172.1	218.5	430.6	2346.2	6106.3	7126.0	7033.1
40°	87.4	99.2	113.8	134.7	153.9	200.3	331.4	2142.3	6452.3	7583.0	7401.8
42.5°	71.0	83.8	101.1	120.2	152.0	174.8	256.7	1931.0	6762.7	7980.9	7735.1
45°	56.4	67.4	85.6	110.2	151.1	150.2	198.5	1722.5	6996.7	8264.9	7983.6
47.5°	44.6	53.7	71.9	107.4	139.3	127.5	159.3	1593.3	7242.5	8520.8	8173.9
50°	35.5	44.6	61.9	112.0	122.0	109.3	133.8	1614.2	7480.1	8650.9	8252.2
52.5°	30.0	39.1	53.7	88.3	93.8	95.6	117.4	1710.7	7786.9	8790.2	8407.9
55°	26.4	34.6	45.5	61.9	72.8	85.6	107.4	1780.8	8197.6	9088.9	8751.1
57.5°	20.9	30.0	41.0	52.8	60.1	74.7	99.2	1786.3	8569.0	9472.2	9207.2
59°	19.1	27.3	38.2	50.1	53.7	67.4	93.8	1739.8	8582.7	9529.5	9416.6
60°	17.3	26.4	36.4	46.4	51.0	63.7	89.2	1686.1	8458.8	9438.5	9503.1
62.5°	14.6	22.8	31.9	37.3	43.7	52.8	77.4	1491.3	7858.9	9026.0	9342.9
65°	12.7	20.0	27.3	31.0	36.4	45.5	68.3	1193.6	7196.1	8467.0	8884.0
67.5°	11.8	18.2	23.7	26.4	31.9	41.9	61.0	843.1	6337.5	7757.8	8194.8
70°	10.9	17.3	20.9	24.6	28.2	35.5	51.9	491.6	4881.8	6514.2	6975.7
72.5°	10.9	16.4	18.2	20.9	24.6	31.9	48.3	265.8	3337.7	4969.2	5565.5
75°	10.9	15.5	16.4	18.2	21.9	29.1	42.8	139.3	2157.7	3452.4	4260.8
77.5°	10.9	14.6	16.4	17.3	20.9	25.5	37.3	87.4	1437.6	2418.1	2879.7
80°	11.8	14.6	15.5	17.3	20.0	23.7	31.0	58.3	844.9	1454.9	1752.6
82.5°	12.7	14.6	16.4	18.2	20.9	22.8	27.3	36.4	389.7	962.3	1088.9
85°	13.7	15.5	17.3	19.1	21.9	22.8	25.5	26.4	63.7	434.3	587.2
87.5°	14.6	16.4	18.2	20.0	23.7	23.7	23.7	23.7	21.9	46.4	118.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P452698

CATALOG NUMBER: GALN-SA3C-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3958.6	3958.6	3958.6	3958.6	3958.6	3958.6	3958.6	3958.6	3958.6	3958.6
2.5°	4466.6	4569.5	4641.4	4659.6	4607.7	4584.0	4518.5	4416.5	4354.6	4351.9
5°	4706.9	4948.2	5115.7	5144.0	5043.8	4874.5	4673.3	4413.8	4261.7	4216.2
7.5°	4666.0	5088.4	5357.9	5397.1	5228.6	4905.4	4515.8	4097.9	3932.2	3862.1
10°	4497.5	5012.9	5398.0	5459.9	5235.0	4779.8	4284.5	3818.4	3612.6	3558.9
12.5°	4353.7	4874.5	5216.8	5302.4	5132.1	4677.8	4146.1	3639.0	3418.7	3368.6
15°	4290.9	4710.6	4920.0	4963.7	4935.5	4614.1	4131.6	3611.7	3359.5	3304.9
17.5°	4353.7	4571.3	4597.7	4642.3	4705.1	4607.7	4271.8	3760.1	3487.9	3420.5
20°	4518.5	4450.2	4341.0	4360.1	4503.9	4634.1	4521.2	4088.8	3757.4	3685.4
22.5°	4798.9	4420.2	4172.5	4156.1	4338.2	4722.4	4887.2	4534.0	4149.8	4078.7
25°	5143.0	4495.7	4110.6	4075.1	4273.6	4851.7	5285.1	5079.3	4659.6	4551.3
27.5°	5518.1	4652.3	4110.6	4076.0	4268.1	4966.4	5625.6	5561.8	5187.7	5069.3
30°	5723.9	4781.6	4169.8	4130.6	4335.5	5032.9	5807.7	5990.7	5584.6	5438.0
32.5°	5907.8	4961.0	4285.4	4211.7	4476.6	5131.2	5970.6	6354.8	5900.5	5802.2
35°	6077.2	5153.1	4444.7	4359.2	4662.3	5266.0	6150.9	6737.2	6340.3	6191.9
37.5°	6263.8	5376.1	4693.3	4620.5	4972.8	5528.2	6364.8	7239.8	6772.7	6586.1
40°	6466.8	5634.7	5102.1	5071.1	5466.2	5825.0	6635.2	7776.0	7266.2	7054.0
42.5°	6673.5	5932.4	5602.8	5653.8	6025.3	6241.0	6912.9	8188.4	7670.4	7436.4
45°	6861.0	6313.0	6253.8	6506.0	6677.1	6647.1	7118.7	8478.9	8022.7	7798.8
47.5°	7097.7	6867.4	7041.3	7430.1	7434.6	7088.6	7274.4	8716.5	8325.9	8102.0
50°	7362.7	7522.0	8058.3	8454.3	8347.8	7522.9	7456.5	8997.8	8639.1	8459.8
52.5°	7669.5	8254.9	8997.8	9437.6	9189.0	7996.3	7759.6	9301.9	9136.2	8964.1
55°	8026.4	8754.7	9934.7	10285.2	10034.8	8584.5	8220.3	9714.3	9697.9	9580.5
57.5°	8429.7	9282.8	10477.3	10951.6	10728.6	9274.6	8864.0	10103.1	10041.2	9975.6
59°	8748.4	9554.1	10716.7	11208.4	11073.6	9758.0	9296.4	10345.3	10120.4	10022.1
60°	8941.4	9738.0	10805.0	11243.0	11212.0	10045.7	9570.5	10463.6	10119.5	9982.9
62.5°	9514.0	10059.4	10771.4	11089.1	11210.2	10597.5	10374.4	10593.8	9931.9	9731.6
65°	9718.0	9952.9	10213.3	10174.1	10277.9	10569.2	10887.9	10450.9	9531.3	9246.4
67.5°	9321.0	8784.8	8876.7	8615.4	8564.5	9396.6	10679.4	9751.7	8747.5	8398.8
70°	7857.1	6729.9	6683.5	6803.7	6474.1	7607.6	9589.6	8405.1	7453.7	7058.6
72.5°	6184.6	4756.1	4364.6	4807.1	4797.1	5804.0	7966.3	5964.3	5035.6	5001.9
75°	4863.5	3311.3	2906.1	2978.0	3116.4	4201.7	6344.8	3787.4	3100.9	2826.0
77.5°	3264.8	2346.2	2188.7	2100.4	2249.7	2697.6	4014.1	2053.9	1738.9	1647.0
80°	1881.9	1704.3	1935.6	1757.1	1837.3	1699.8	1996.6	942.3	782.1	846.7
82.5°	1224.5	970.5	1034.3	768.4	1050.6	1059.7	640.9	278.6	235.8	250.4
85°	765.7	455.2	255.8	182.1	362.4	666.4	200.3	17.3	20.0	17.3
87.5°	198.5	75.6	31.9	47.3	58.3	51.9	46.4	2.7	0.9	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)