

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: P455018

Luminaire Tested: **GALN-SA6A-830-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455018
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-SA6A-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA 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: 15476 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 182
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

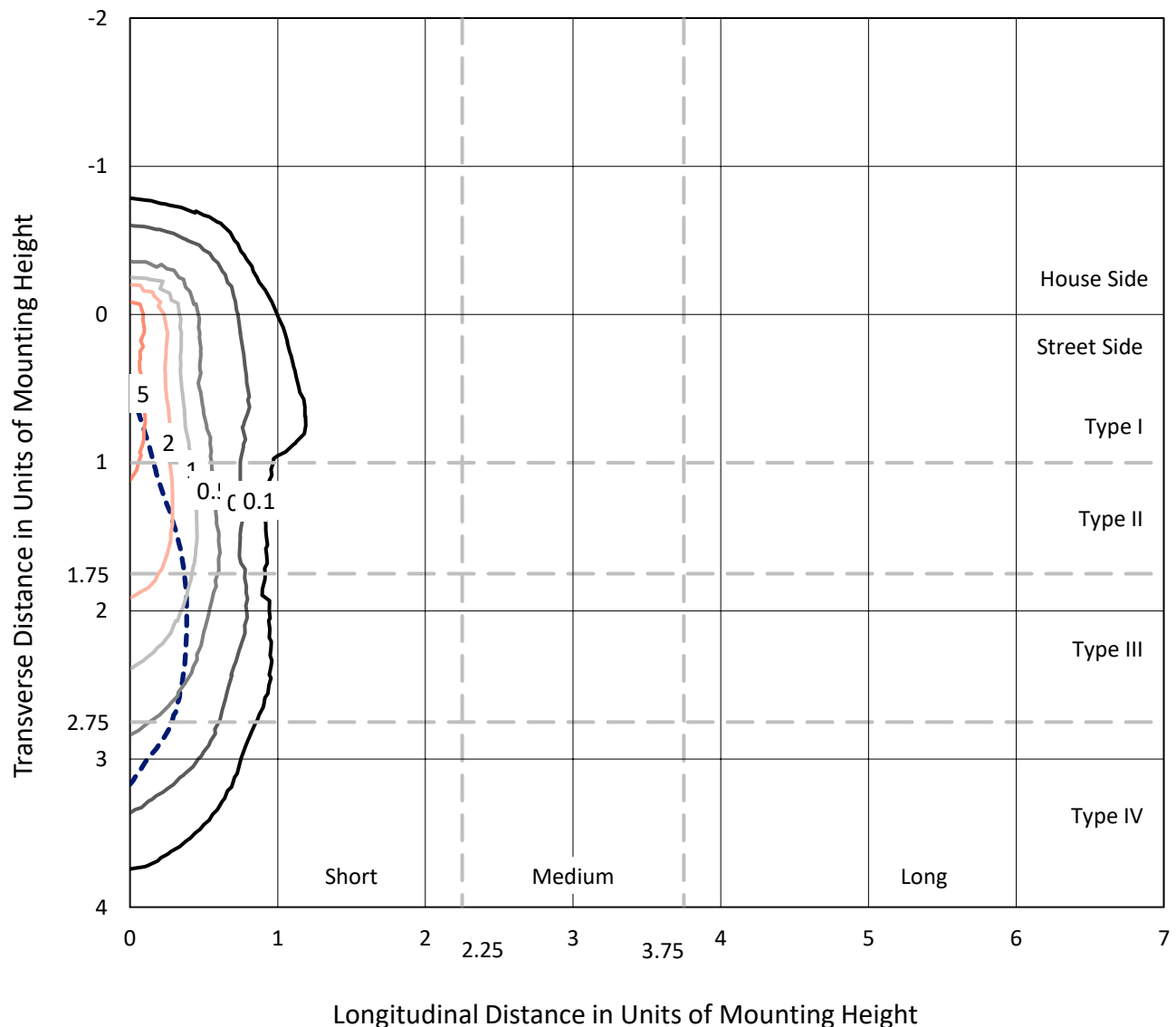


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Iso-Footcandle Lines of Horizontal Illumination

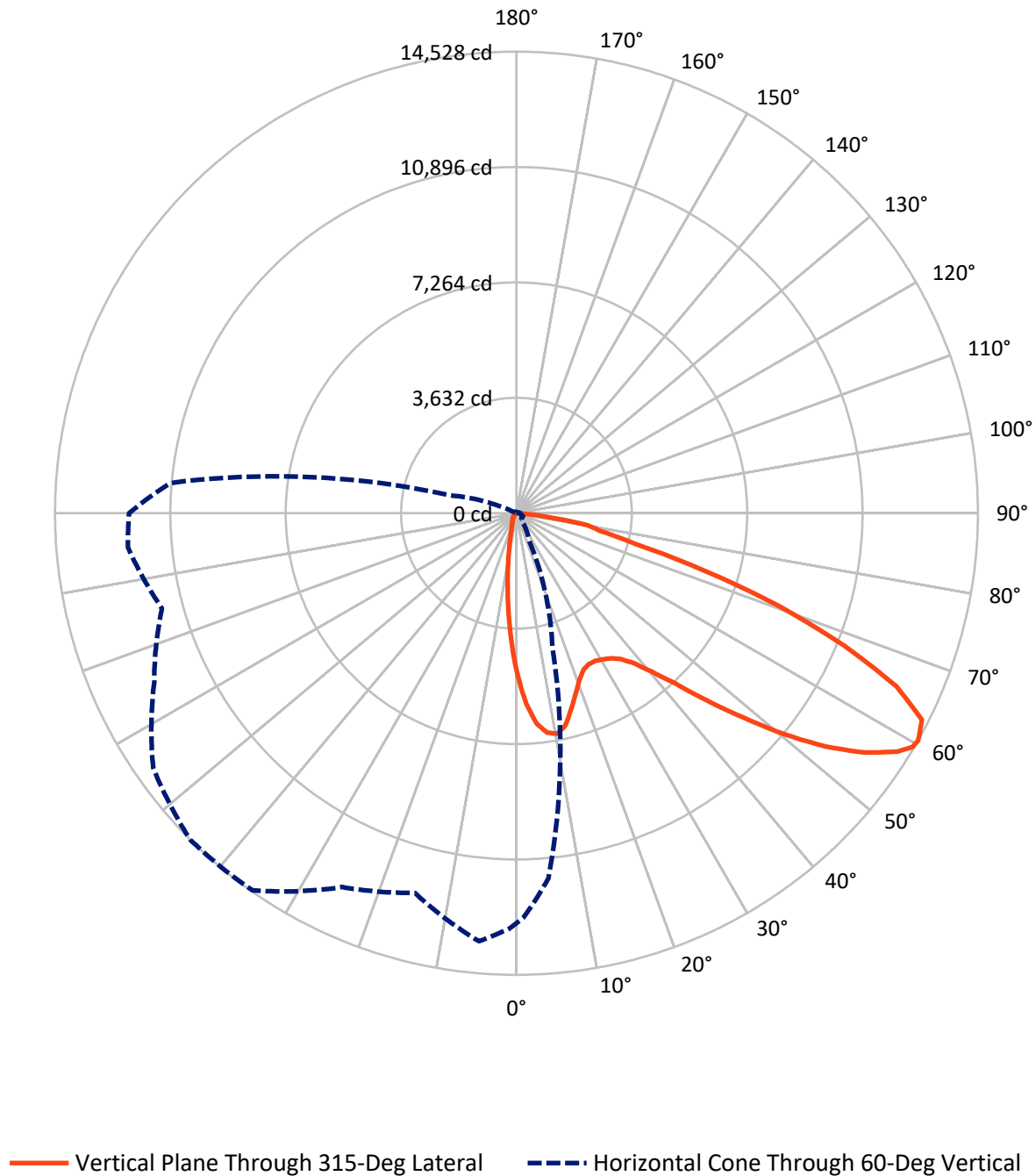
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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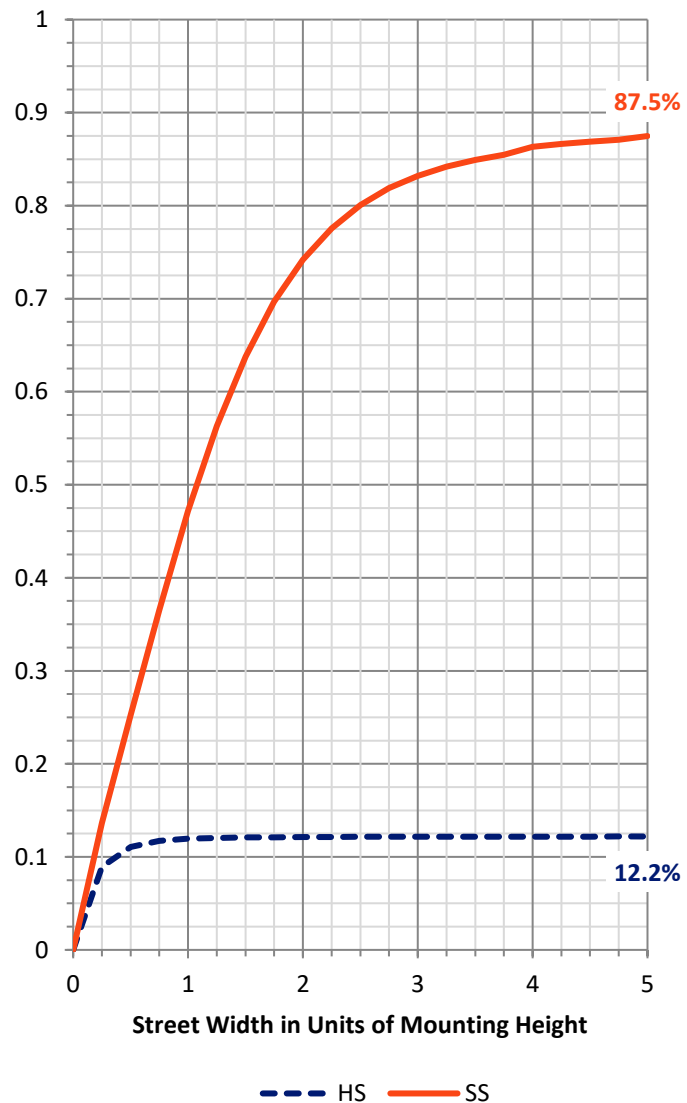
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1908.8	0.0	1908.8
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	13567.2	0.0	13567.2
	% Fixture	87.7	0.0	87.7
Total	Lumens	15476.0	0.0	15476.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.4	2.5
10°-20°	755.6	4.9
20°-30°	1107.9	7.2
30°-40°	1647.6	10.6
40°-50°	2397.7	15.5
50°-60°	3457.7	22.3
60°-70°	3803.1	24.6
70°-80°	1703.5	11.0
80°-90°	222.6	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°	15476.0	100.0
0°-180°	15476.0	100.0

Coefficient of Utilization



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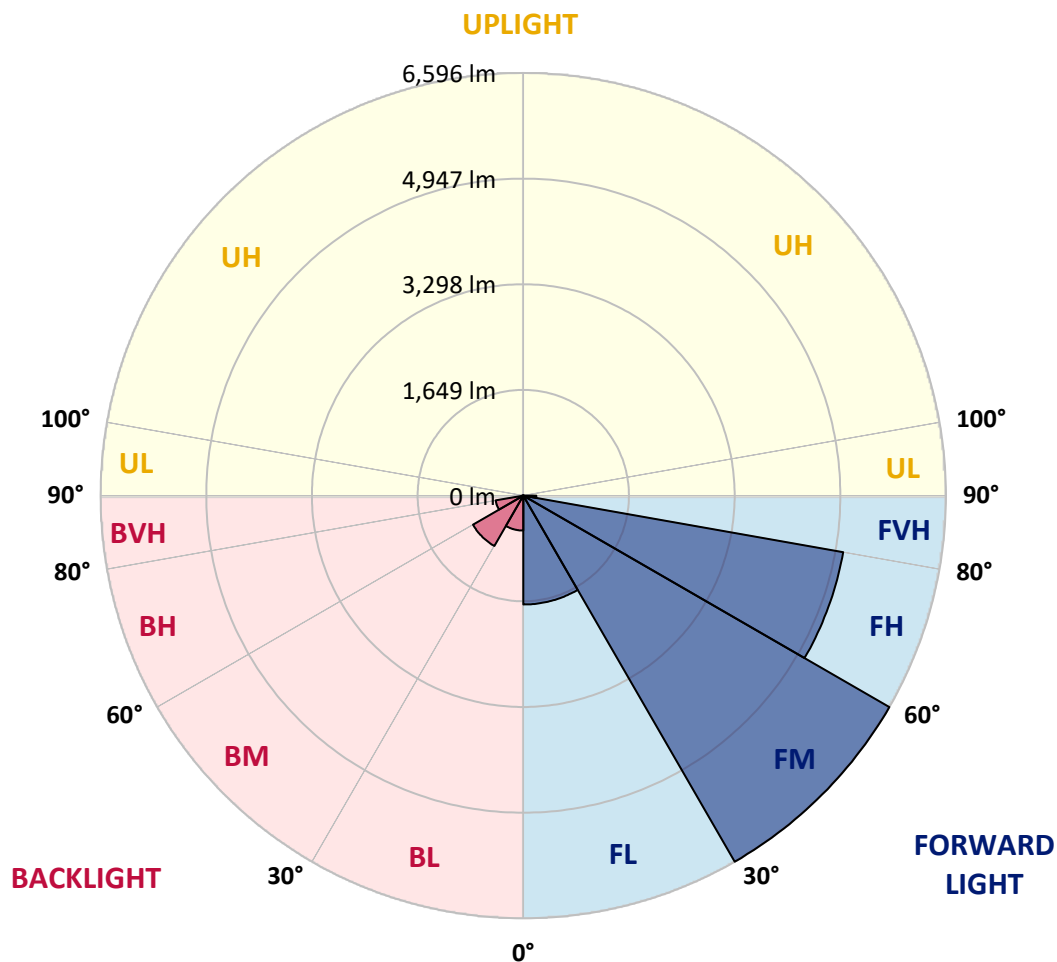
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1698.4	11.0			
FM	(30°-60°)	6596.3	42.6			
FH	(60°-80°)	5068.8	32.8			G3/7500
FVH	(80°-90°)	203.6	1.3			G2/225
BL	(0°-30°)	545.4	3.5	B2/1000		
BM	(30°-60°)	906.6	5.9	B1/1000		
BH	(60°-80°)	437.7	2.8	B1/500		G1/500
BVH	(80°-90°)	19.0	0.1			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5115.0	5115.0	5115.0	5115.0	5115.0	5115.0	5115.0	5115.0	5115.0	5115.0	5115.0
2.5°	5623.2	5598.5	5542.1	5370.3	5220.9	5025.6	4828.0	4672.7	4577.4	4402.1	4322.1
5°	5448.0	5459.7	5296.2	4943.3	4550.4	4282.1	3989.2	3756.3	3499.8	3337.5	3166.9
7.5°	4990.3	4966.8	4789.2	4297.4	3819.8	3431.6	3061.0	2759.9	2570.5	2418.7	2291.7
10°	4598.6	4580.9	4353.9	3721.0	3208.1	2917.5	2666.9	2403.4	2199.9	1977.5	1799.9
12.5°	4352.7	4312.7	4051.6	3390.4	2972.8	2702.2	2429.3	2155.2	1874.0	1649.3	1434.0
15°	4270.4	4212.7	3922.2	3276.3	2822.2	2478.7	2136.4	1821.1	1497.6	1249.3	1087.0
17.5°	4419.8	4324.5	4015.1	3256.3	2642.2	2186.9	1765.8	1355.2	1018.8	829.4	729.4
20°	4762.1	4652.7	4250.4	3236.3	2442.2	1859.9	1342.3	957.6	704.7	601.1	545.9
22.5°	5270.3	5119.7	4598.6	3268.1	2257.5	1541.1	969.4	676.4	560.0	495.3	456.4
25°	5880.9	5755.0	5039.7	3381.0	2111.7	1290.5	749.4	552.9	471.7	431.7	402.3
27.5°	6550.3	6349.1	5610.3	3516.3	1978.7	1096.4	657.6	494.1	420.0	383.5	368.2
30°	7026.7	6870.2	6087.9	3610.4	1812.9	950.5	601.1	487.0	421.2	377.6	349.4
32.5°	7497.3	7297.3	6487.9	3653.9	1691.7	849.4	520.0	424.7	369.4	347.0	318.8
35°	8000.8	7791.4	6886.7	3630.4	1601.1	782.3	471.7	378.8	316.5	278.8	250.6
37.5°	8510.2	8289.0	7283.2	3545.7	1544.6	755.3	434.1	360.0	298.8	260.0	229.4
40°	9114.8	8819.6	7654.9	3476.3	1485.8	741.1	409.4	348.2	285.9	244.7	214.1
42.5°	9608.9	9327.8	8006.7	3439.8	1445.8	708.2	409.4	338.8	277.6	231.8	200.0
45°	10077.1	9785.4	8386.6	3469.2	1429.3	667.0	414.1	337.6	271.8	222.3	190.6
47.5°	10468.9	10216.0	8777.2	3579.8	1408.2	622.3	389.4	354.1	268.2	214.1	181.2
50°	10931.2	10686.5	9293.7	3803.3	1370.5	577.6	358.8	381.2	267.0	207.0	172.9
52.5°	11583.0	11318.3	10006.6	4057.4	1310.5	509.4	330.6	377.6	262.3	195.3	164.7
55°	12379.4	12165.3	10832.4	4362.1	1228.2	432.9	285.9	335.3	248.2	175.3	150.6
57.5°	12889.9	12707.6	11451.2	4493.9	1102.3	354.1	251.8	281.2	227.0	156.5	134.1
59°	12949.9	12785.2	11580.6	4450.4	1019.9	323.5	235.3	241.2	221.2	145.9	124.7
60°	12899.4	12728.8	11528.8	4365.7	943.5	302.3	221.2	214.1	222.3	140.0	117.6
62.5°	12574.7	12282.9	11026.5	3936.3	824.7	277.6	196.5	175.3	196.5	125.9	104.7
65°	11947.6	11510.0	10032.4	3331.6	777.6	263.5	167.1	147.1	149.4	110.6	90.6
67.5°	10852.4	10300.7	8709.0	2706.9	757.6	264.7	141.2	131.8	115.3	94.1	80.0
70°	9120.7	8570.2	6987.9	2226.9	748.2	264.7	120.0	112.9	96.5	78.8	69.4
72.5°	6463.2	5870.3	4713.9	1749.3	674.1	263.5	102.3	102.3	78.8	65.9	56.5
75°	3651.6	3656.3	2963.4	1237.6	560.0	217.6	82.3	81.2	57.6	50.6	42.4
77.5°	2128.1	2090.5	1997.5	531.7	260.0	98.8	57.6	49.4	40.0	36.5	30.6
80°	1094.1	900.0	876.4	192.9	92.9	62.3	40.0	28.2	25.9	23.5	21.2
82.5°	323.5	324.7	289.4	77.6	51.8	41.2	20.0	15.3	14.1	12.9	12.9
85°	22.4	14.1	16.5	23.5	31.8	16.5	1.2	3.5	3.5	4.7	5.9
87.5°	2.4	1.2	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°	5115.0	5115.0	5115.0	5115.0	5115.0	5115.0	5115.0	5115.0	5115.0	5115.0	5115.0
2.5°	4233.9	4285.7	4189.2	4191.6	4111.6	4137.4	4043.3	4073.9	4018.6	4061.0	4185.7
5°	3185.7	3197.5	3119.8	3095.1	3106.9	3155.1	3174.0	3088.1	3124.6	3052.8	3048.1
7.5°	2244.6	2258.7	2214.0	2208.1	2292.8	2272.8	2309.3	2221.1	2137.5	2174.0	2107.0
10°	1743.4	1684.6	1592.9	1567.0	1550.5	1561.1	1561.1	1481.1	1469.3	1437.6	1485.8
12.5°	1376.4	1304.6	1217.6	1099.9	1070.5	1068.2	1024.7	954.1	931.7	904.7	944.7
15°	1000.0	970.5	897.6	831.7	764.7	751.7	681.1	623.5	547.0	536.4	532.9
17.5°	703.5	660.0	658.8	621.1	582.3	556.4	490.6	424.7	395.3	391.7	391.7
20°	527.0	511.7	487.0	482.3	470.6	441.2	382.3	347.0	332.9	334.1	338.8
22.5°	443.5	432.9	410.6	400.0	395.3	369.4	325.9	302.3	295.3	295.3	296.5
25°	396.5	387.0	362.3	345.9	340.0	321.2	287.0	269.4	263.5	263.5	263.5
27.5°	361.2	349.4	323.5	309.4	298.8	277.6	256.5	238.8	232.9	232.9	234.1
30°	336.5	323.5	300.0	281.2	264.7	245.9	228.2	212.9	205.9	204.7	205.9
32.5°	303.5	291.8	268.2	256.5	237.6	215.3	201.2	187.0	180.0	181.2	180.0
35°	236.5	232.9	216.5	220.0	209.4	190.6	177.6	162.3	154.1	152.9	155.3
37.5°	215.3	201.2	182.3	183.5	180.0	172.9	151.8	135.3	129.4	129.4	130.6
40°	198.8	184.7	163.5	152.9	154.1	154.1	131.8	114.1	108.2	107.1	109.4
42.5°	184.7	170.6	147.1	129.4	124.7	130.6	111.8	94.1	88.2	85.9	88.2
45°	175.3	160.0	132.9	112.9	98.8	105.9	91.8	77.6	70.6	70.6	69.4
47.5°	165.9	151.8	122.3	97.6	82.3	78.8	75.3	62.3	55.3	54.1	55.3
50°	157.6	143.5	110.6	84.7	69.4	61.2	61.2	49.4	44.7	42.4	43.5
52.5°	149.4	134.1	100.0	75.3	60.0	49.4	43.5	40.0	36.5	35.3	36.5
55°	137.6	122.3	89.4	64.7	51.8	41.2	34.1	32.9	30.6	28.2	30.6
57.5°	123.5	109.4	78.8	55.3	41.2	31.8	28.2	27.1	24.7	23.5	23.5
59°	115.3	102.3	72.9	48.2	36.5	28.2	25.9	24.7	22.4	20.0	21.2
60°	110.6	100.0	69.4	44.7	32.9	25.9	23.5	22.4	20.0	18.8	20.0
62.5°	97.6	89.4	61.2	36.5	25.9	18.8	16.5	17.6	16.5	15.3	16.5
65°	85.9	78.8	51.8	28.2	20.0	12.9	11.8	15.3	14.1	12.9	14.1
67.5°	76.5	68.2	43.5	21.2	14.1	7.1	8.2	12.9	12.9	11.8	12.9
70°	65.9	58.8	35.3	15.3	7.1	3.5	5.9	9.4	11.8	10.6	11.8
72.5°	54.1	45.9	27.1	10.6	3.5	0.0	3.5	8.2	11.8	10.6	11.8
75°	42.4	34.1	20.0	5.9	0.0	0.0	1.2	7.1	11.8	10.6	11.8
77.5°	30.6	24.7	11.8	1.2	0.0	0.0	1.2	7.1	11.8	10.6	11.8
80°	20.0	17.6	4.7	0.0	0.0	0.0	1.2	7.1	11.8	11.8	12.9
82.5°	12.9	9.4	0.0	0.0	0.0	0.0	2.4	9.4	12.9	14.1	14.1
85°	5.9	0.0	0.0	0.0	0.0	0.0	4.7	11.8	15.3	15.3	15.3
87.5°	0.0	0.0	0.0	0.0	0.0	2.4	8.2	14.1	17.6	17.6	17.6
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°	5115.0	5115.0	5115.0	5115.0	5115.0	5115.0	5115.0	5115.0	5115.0	5115.0	5115.0
2.5°	4206.8	4281.0	4385.7	4546.8	4677.4	4883.3	5040.9	5256.2	5473.8	5539.7	5642.1
5°	3096.3	3191.6	3429.2	3645.7	3782.2	4217.4	4492.7	4926.8	5316.2	5503.3	5706.8
7.5°	2150.5	2263.4	2444.6	2746.9	3034.0	3388.1	3832.8	4329.2	4899.8	5166.8	5453.8
10°	1509.3	1650.5	1905.8	2154.0	2515.2	2851.6	3290.4	3838.6	4468.0	4783.3	5143.3
12.5°	952.9	1078.8	1416.4	1695.2	2145.8	2536.3	2941.0	3437.5	4166.9	4490.4	4868.0
15°	544.7	650.6	808.2	1165.8	1665.8	2182.2	2686.9	3263.4	4012.7	4411.5	4819.8
17.5°	405.9	434.1	504.7	707.0	1162.3	1765.8	2452.8	3210.4	4117.4	4585.7	5051.5
20°	341.2	360.0	392.9	472.9	741.1	1359.9	2224.6	3219.8	4456.2	5044.5	5486.8
22.5°	305.9	317.6	344.7	396.5	505.9	990.5	1957.5	3275.1	4866.8	5608.0	6118.5
25°	268.2	283.5	307.0	351.7	421.2	687.0	1694.0	3398.7	5442.1	6323.2	6803.2
27.5°	238.8	252.9	276.5	317.6	369.4	524.7	1387.0	3504.5	6049.1	7043.2	7436.1
30°	209.4	223.5	247.0	280.0	327.0	424.7	1056.4	3566.9	6638.5	7583.2	7885.5
32.5°	184.7	196.5	218.8	248.2	287.0	360.0	832.9	3502.2	7089.1	8073.7	8276.1
35°	160.0	174.1	192.9	220.0	254.1	307.0	692.9	3278.7	7476.1	8578.4	8651.3
37.5°	134.1	150.6	170.6	195.3	222.3	282.3	556.4	3031.6	7890.2	9207.8	9087.8
40°	112.9	128.2	147.1	174.1	198.8	258.8	428.2	2768.1	8337.2	9798.3	9564.2
42.5°	91.8	108.2	130.6	155.3	196.5	225.9	331.7	2495.2	8738.4	10312.4	9994.8
45°	72.9	87.1	110.6	142.3	195.3	194.1	256.5	2225.8	9040.7	10679.5	10316.0
47.5°	57.6	69.4	92.9	138.8	180.0	164.7	205.9	2058.7	9358.4	11010.0	10561.8
50°	45.9	57.6	80.0	144.7	157.6	141.2	172.9	2085.8	9665.4	11178.3	10663.0
52.5°	38.8	50.6	69.4	114.1	121.2	123.5	151.8	2210.5	10061.9	11358.3	10864.2
55°	34.1	44.7	58.8	80.0	94.1	110.6	138.8	2301.1	10592.4	11744.1	11307.7
57.5°	27.1	38.8	52.9	68.2	77.6	96.5	128.2	2308.1	11072.4	12239.4	11897.1
59°	24.7	35.3	49.4	64.7	69.4	87.1	121.2	2248.1	11090.0	12313.5	12167.6
60°	22.4	34.1	47.1	60.0	65.9	82.3	115.3	2178.7	10930.0	12195.9	12279.4
62.5°	18.8	29.4	41.2	48.2	56.5	68.2	100.0	1927.0	10154.8	11662.9	12072.3
65°	16.5	25.9	35.3	40.0	47.1	58.8	88.2	1542.3	9298.4	10940.6	11479.4
67.5°	15.3	23.5	30.6	34.1	41.2	54.1	78.8	1089.4	8189.0	10024.2	10588.9
70°	14.1	22.4	27.1	31.8	36.5	45.9	67.1	635.3	6307.9	8417.2	9013.7
72.5°	14.1	21.2	23.5	27.1	31.8	41.2	62.3	343.5	4312.7	6420.9	7191.4
75°	14.1	20.0	21.2	23.5	28.2	37.6	55.3	180.0	2788.1	4461.0	5505.6
77.5°	14.1	18.8	21.2	22.4	27.1	32.9	48.2	112.9	1857.6	3124.6	3721.0
80°	15.3	18.8	20.0	22.4	25.9	30.6	40.0	75.3	1091.7	1879.9	2264.6
82.5°	16.5	18.8	21.2	23.5	27.1	29.4	35.3	47.1	503.5	1243.5	1407.0
85°	17.6	20.0	22.4	24.7	28.2	29.4	32.9	34.1	82.3	561.1	758.8
87.5°	18.8	21.2	23.5	25.9	30.6	30.6	30.6	30.6	28.2	60.0	152.9
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-SA6A-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5115.0	5115.0	5115.0	5115.0	5115.0	5115.0	5115.0	5115.0	5115.0	5115.0
2.5°	5771.5	5904.4	5997.3	6020.9	5953.8	5923.2	5838.5	5706.8	5626.8	5623.2
5°	6082.0	6393.8	6610.3	6646.7	6517.3	6298.5	6038.5	5703.2	5506.8	5448.0
7.5°	6029.1	6575.0	6923.2	6973.8	6756.1	6338.5	5835.0	5295.0	5080.9	4990.3
10°	5811.5	6477.3	6974.9	7054.9	6764.4	6176.2	5536.2	4933.9	4668.0	4598.6
12.5°	5625.6	6298.5	6740.8	6851.4	6631.4	6044.4	5357.4	4702.1	4417.4	4352.7
15°	5544.4	6086.8	6357.3	6413.8	6377.3	5962.1	5338.6	4666.8	4341.0	4270.4
17.5°	5625.6	5906.8	5940.9	5998.5	6079.7	5953.8	5519.7	4858.6	4506.8	4419.8
20°	5838.5	5750.3	5609.1	5633.8	5819.7	5987.9	5842.1	5283.3	4855.1	4762.1
22.5°	6200.9	5711.5	5391.5	5370.3	5605.6	6102.0	6315.0	5858.5	5362.1	5270.3
25°	6645.6	5809.1	5311.5	5265.6	5522.1	6269.1	6829.1	6563.2	6020.9	5880.9
27.5°	7130.2	6011.5	5311.5	5266.8	5515.0	6417.3	7269.0	7186.7	6703.2	6550.3
30°	7396.1	6178.5	5388.0	5337.4	5602.1	6503.2	7504.3	7740.8	7216.1	7026.7
32.5°	7633.7	6410.3	5537.4	5442.1	5784.4	6630.3	7714.9	8211.4	7624.3	7497.3
35°	7852.5	6658.5	5743.2	5632.7	6024.4	6804.4	7947.8	8705.4	8192.5	8000.8
37.5°	8093.7	6946.7	6064.4	5970.3	6425.6	7143.2	8224.3	9354.8	8751.3	8510.2
40°	8356.1	7280.8	6592.6	6552.6	7063.2	7526.7	8573.7	10047.7	9388.9	9114.8
42.5°	8623.1	7665.5	7239.6	7305.5	7785.5	8064.3	8932.5	10580.6	9911.3	9608.9
45°	8865.4	8157.2	8080.8	8406.6	8627.8	8589.0	9198.4	10955.9	10366.5	10077.1
47.5°	9171.3	8873.7	9098.4	9600.7	9606.6	9159.5	9399.5	11263.0	10758.3	10468.9
50°	9513.6	9719.5	10412.4	10924.2	10786.5	9720.7	9634.8	11626.5	11163.0	10931.2
52.5°	9910.1	10666.5	11626.5	12194.7	11873.5	10332.4	10026.6	12019.4	11805.3	11583.0
55°	10371.2	11312.4	12837.0	13289.9	12966.4	11092.4	10621.8	12552.3	12531.1	12379.4
57.5°	10892.4	11994.7	13538.1	14151.1	13862.8	11984.1	11453.5	13054.6	12974.6	12889.9
59°	11304.1	12345.3	13847.5	14482.8	14308.7	12608.8	12012.3	13367.6	13077.0	12949.9
60°	11553.5	12582.9	13961.7	14527.5	14487.5	12980.5	12366.4	13520.5	13075.8	12899.4
62.5°	12293.5	12998.2	13918.1	14328.7	14485.2	13693.4	13405.2	13688.7	12833.5	12574.7
65°	12557.0	12860.5	13197.0	13146.4	13280.5	13657.0	14068.7	13504.0	12315.9	11947.6
67.5°	12044.1	11351.2	11470.0	11132.4	11066.5	12141.7	13799.3	12600.5	11303.0	10852.4
70°	10152.4	8696.0	8636.0	8791.3	8365.5	9830.1	12391.1	10860.6	9631.3	9120.7
72.5°	7991.4	6145.6	5639.7	6211.5	6198.5	7499.6	10293.6	7706.7	6506.7	6463.2
75°	6284.4	4278.6	3755.1	3848.0	4026.9	5429.1	8198.4	4893.9	4006.9	3651.6
77.5°	4218.6	3031.6	2828.1	2714.0	2906.9	3485.7	5186.8	2654.0	2246.9	2128.1
80°	2431.6	2202.2	2501.1	2270.5	2374.0	2196.4	2579.9	1217.6	1010.5	1094.1
82.5°	1582.3	1254.1	1336.4	992.9	1357.6	1369.3	828.2	360.0	304.7	323.5
85°	989.4	588.2	330.6	235.3	468.2	861.1	258.8	22.4	25.9	22.4
87.5°	256.5	97.6	41.2	61.2	75.3	67.1	60.0	3.5	1.2	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)