

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: P456874

Luminaire Tested: **GALN-SA8A-830-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456874
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-SA8A-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 21074 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 244
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

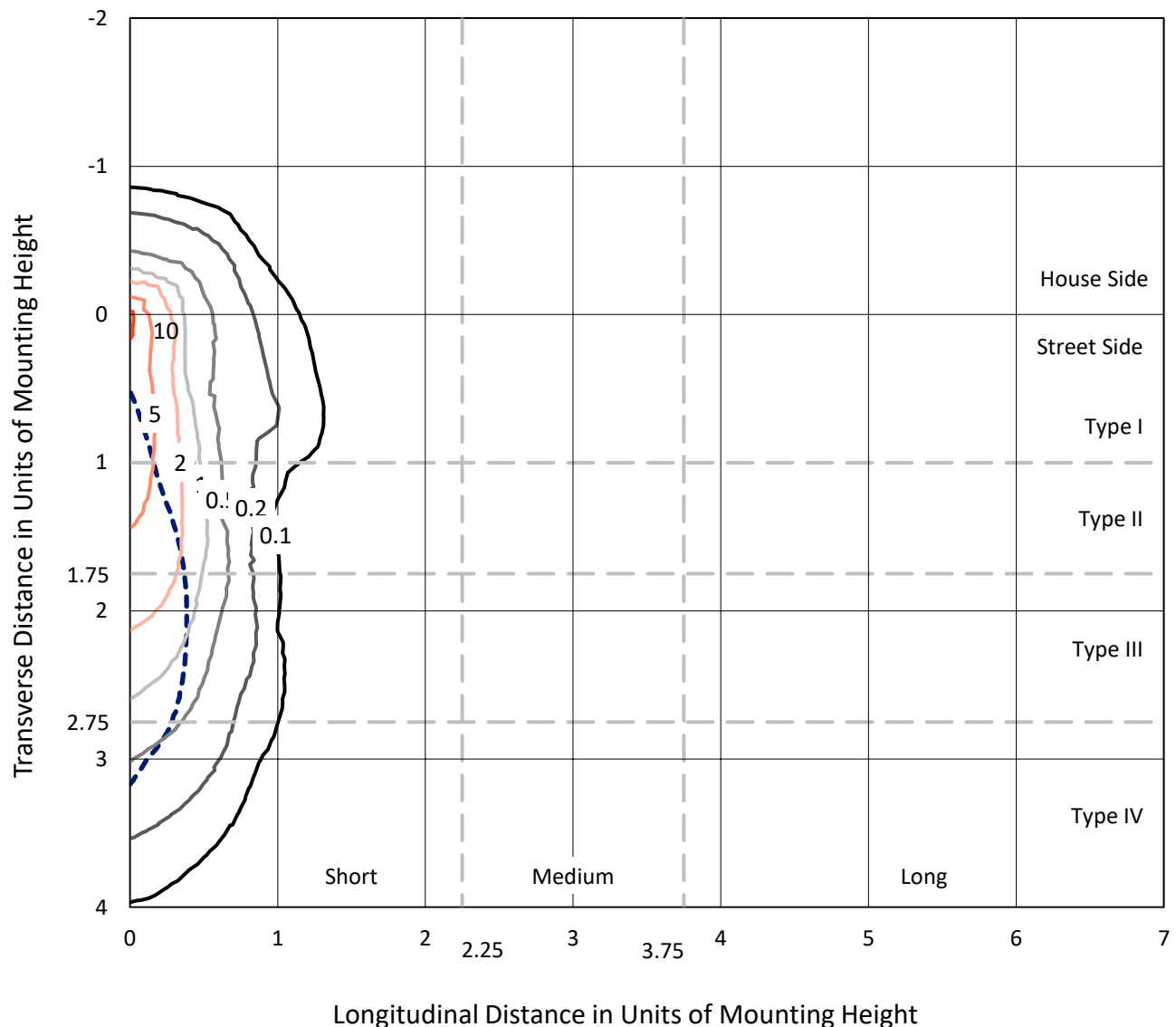


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

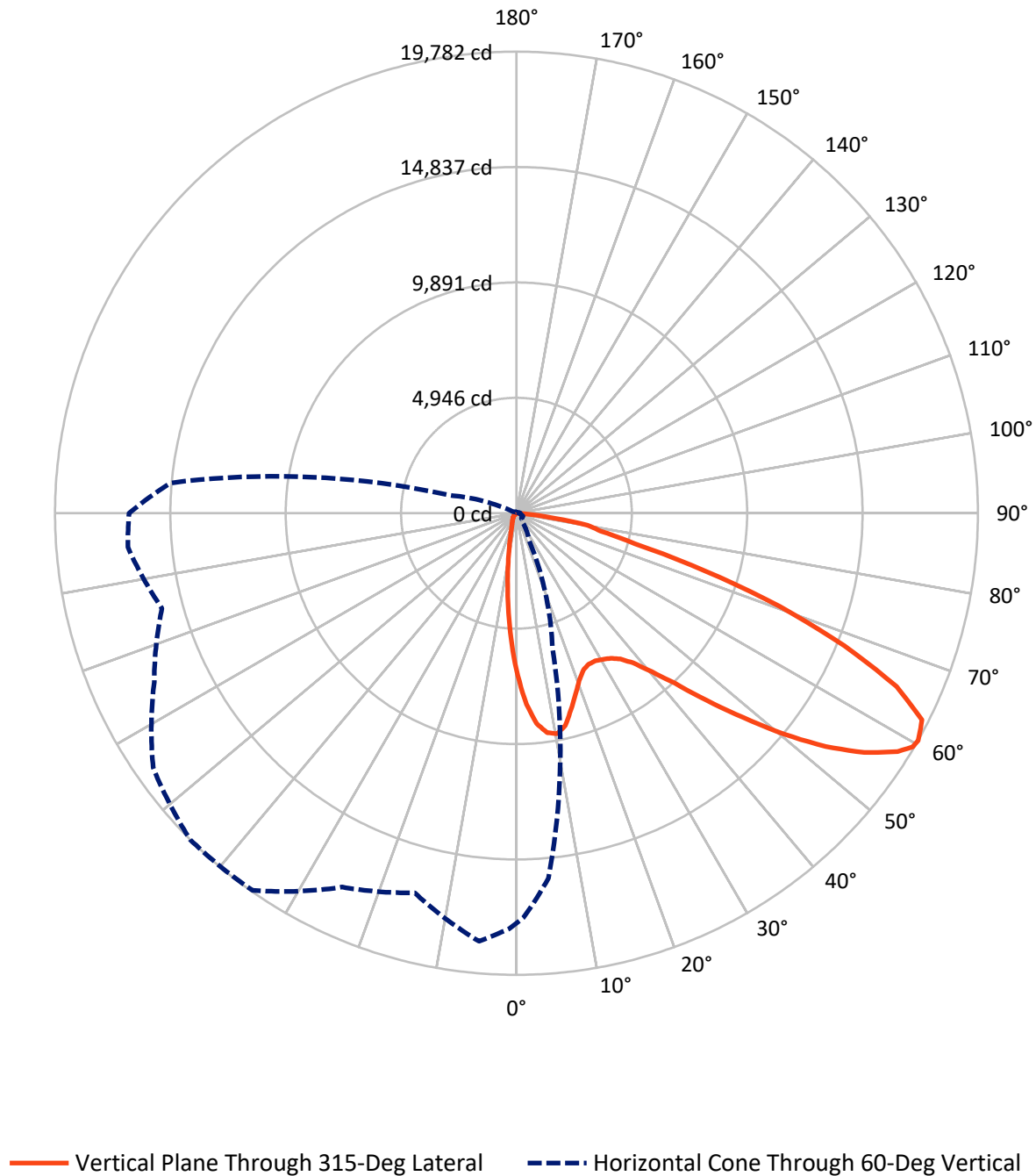


Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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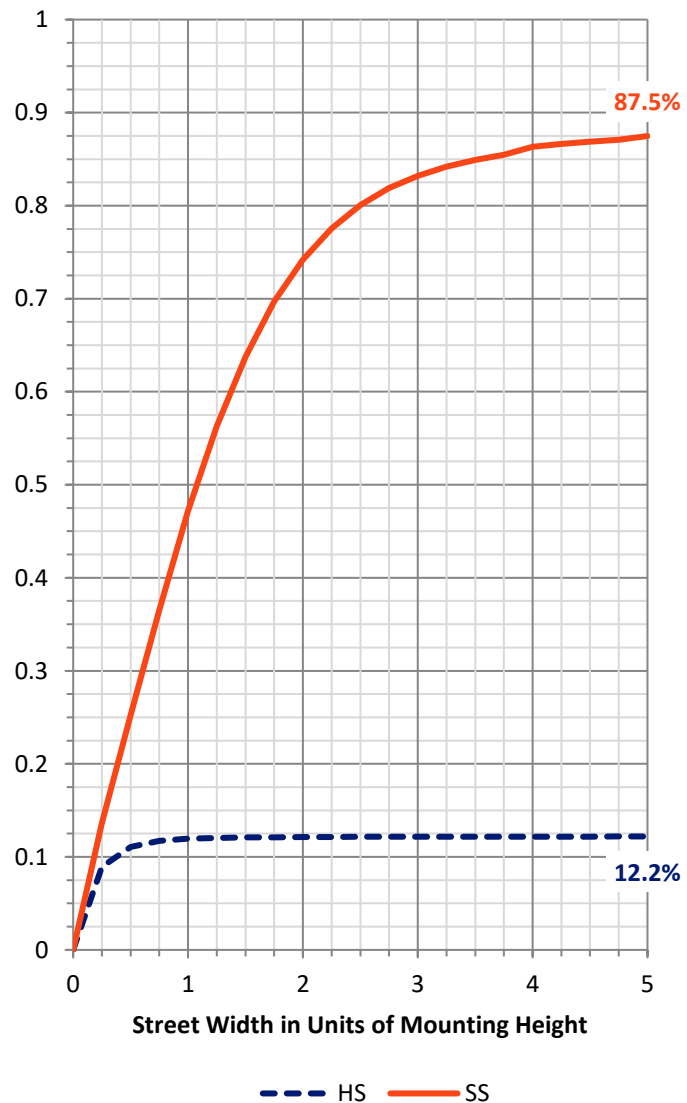
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2599.3	0.0	2599.3
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	18474.7	0.0	18474.7
	% Fixture	87.7	0.0	87.7
Total	Lumens	21074.0	0.0	21074.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.1	2.5
10°-20°	1028.9	4.9
20°-30°	1508.6	7.2
30°-40°	2243.5	10.6
40°-50°	3265.0	15.5
50°-60°	4708.4	22.3
60°-70°	5178.8	24.6
70°-80°	2319.7	11.0
80°-90°	303.1	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°	21074.0	100.0
0°-180°	21074.0	100.0

Coefficient of Utilization



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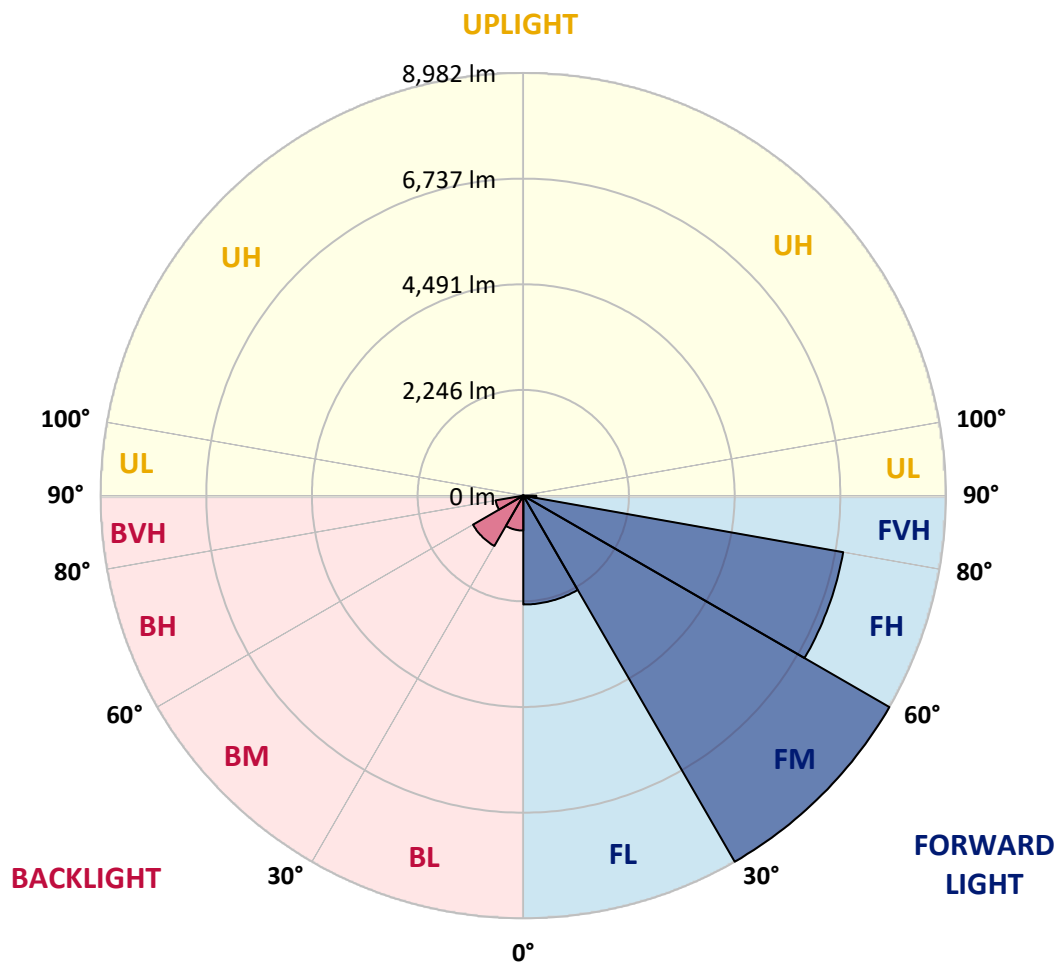
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2312.8	11.0			
FM	(30°-60°)	8982.4	42.6			
FH	(60°-80°)	6902.4	32.8			G3/7500
FVH	(80°-90°)	277.2	1.3			G3/500
BL	(0°-30°)	742.7	3.5	B2/1000		
BM	(30°-60°)	1234.6	5.9	B2/2500		
BH	(60°-80°)	596.1	2.8	B2/1000		G2/1000
BVH	(80°-90°)	25.9	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°	6965.3	6965.3	6965.3	6965.3	6965.3	6965.3	6965.3	6965.3	6965.3	6965.3	6965.3
2.5°	7657.3	7623.7	7546.8	7312.9	7109.4	6843.5	6574.4	6362.9	6233.2	5994.5	5885.5
5°	7418.6	7434.6	7212.0	6731.4	6196.3	5831.1	5432.2	5115.0	4765.8	4544.7	4312.4
7.5°	6795.5	6763.4	6521.5	5851.9	5201.5	4672.9	4168.3	3758.2	3500.3	3293.6	3120.6
10°	6262.0	6238.0	5928.8	5067.0	4368.5	3972.8	3631.6	3272.8	2995.6	2692.9	2451.0
12.5°	5927.2	5872.7	5517.1	4616.8	4048.1	3679.7	3308.0	2934.8	2551.9	2245.9	1952.8
15°	5815.1	5736.6	5340.9	4461.4	3843.1	3375.3	2909.1	2479.8	2039.3	1701.3	1480.2
17.5°	6018.5	5888.8	5467.4	4434.2	3598.0	2978.0	2404.5	1845.4	1387.3	1129.4	993.2
20°	6484.7	6335.7	5787.8	4407.0	3325.6	2532.7	1827.8	1304.0	959.6	818.6	743.3
22.5°	7176.7	6971.7	6262.0	4450.2	3074.1	2098.5	1320.0	921.1	762.5	674.4	621.6
25°	8008.1	7836.7	6862.7	4604.0	2875.5	1757.3	1020.4	752.9	642.4	587.9	547.9
27.5°	8919.6	8645.7	7639.7	4788.2	2694.5	1493.0	895.5	672.8	571.9	522.2	501.4
30°	9568.4	9355.4	8290.1	4916.4	2468.6	1294.4	818.6	663.2	573.5	514.2	475.8
32.5°	10209.2	9936.9	8834.7	4975.6	2303.6	1156.6	708.1	578.3	503.0	472.6	434.1
35°	10894.8	10609.7	9377.8	4943.6	2180.2	1065.3	642.4	515.8	430.9	379.7	341.2
37.5°	11588.5	11287.3	9917.6	4828.3	2103.4	1028.4	591.1	490.2	406.9	354.0	312.4
40°	12411.9	12009.8	10423.9	4733.7	2023.3	1009.2	557.5	474.2	389.3	333.2	291.6
42.5°	13084.7	12701.8	10902.8	4684.1	1968.8	964.4	557.5	461.4	378.1	315.6	272.3
45°	13722.3	13325.0	11420.3	4724.1	1946.4	908.3	563.9	459.8	370.0	302.8	259.5
47.5°	14255.7	13911.3	11952.1	4874.7	1917.5	847.4	530.2	482.2	365.2	291.6	246.7
50°	14885.3	14552.1	12655.4	5179.1	1866.3	786.6	488.6	519.0	363.6	281.9	235.5
52.5°	15772.8	15412.3	13626.1	5525.1	1784.6	693.6	450.1	514.2	357.2	265.9	224.3
55°	16857.3	16565.7	14750.7	5940.0	1672.4	589.5	389.3	456.6	338.0	238.7	205.0
57.5°	17552.5	17304.2	15593.3	6119.4	1501.0	482.2	342.8	382.9	309.2	213.1	182.6
59°	17634.2	17409.9	15769.5	6060.2	1388.9	440.5	320.4	328.4	301.2	198.6	169.8
60°	17565.3	17333.0	15699.1	5944.8	1284.8	411.7	301.2	291.6	302.8	190.6	160.2
62.5°	17123.2	16725.9	15015.0	5360.1	1123.0	378.1	267.5	238.7	267.5	171.4	142.6
65°	16269.4	15673.4	13661.4	4536.7	1058.9	358.8	227.5	200.2	203.4	150.6	123.3
67.5°	14777.9	14026.6	11859.2	3686.1	1031.7	360.4	192.2	179.4	157.0	128.2	108.9
70°	12419.9	11670.2	9515.6	3032.5	1018.8	360.4	163.4	153.8	131.4	107.3	94.5
72.5°	8801.1	7993.7	6419.0	2382.1	917.9	358.8	139.4	139.4	107.3	89.7	76.9
75°	4972.4	4978.8	4035.3	1685.2	762.5	296.4	112.1	110.5	78.5	68.9	57.7
77.5°	2897.9	2846.7	2720.1	724.1	354.0	134.6	78.5	67.3	54.5	49.7	41.7
80°	1489.8	1225.5	1193.4	262.7	126.6	84.9	54.5	38.4	35.2	32.0	28.8
82.5°	440.5	442.1	394.1	105.7	70.5	56.1	27.2	20.8	19.2	17.6	17.6
85°	30.4	19.2	22.4	32.0	43.3	22.4	1.6	4.8	4.8	6.4	8.0
87.5°	3.2	1.6	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°	6965.3	6965.3	6965.3	6965.3	6965.3	6965.3	6965.3	6965.3	6965.3	6965.3	6965.3
2.5°	5765.4	5835.9	5704.5	5707.7	5598.8	5634.0	5505.9	5547.5	5472.2	5529.9	5699.7
5°	4338.1	4354.1	4248.4	4214.7	4230.7	4296.4	4322.0	4205.1	4254.8	4157.0	4150.6
7.5°	3056.5	3075.7	3014.9	3006.9	3122.2	3095.0	3144.6	3024.5	2910.7	2960.4	2869.1
10°	2374.1	2294.0	2169.0	2133.8	2111.4	2125.8	2125.8	2016.8	2000.8	1957.6	2023.3
12.5°	1874.3	1776.6	1658.0	1497.8	1457.8	1454.6	1395.3	1299.2	1268.7	1231.9	1286.4
15°	1361.7	1321.6	1222.3	1132.6	1041.3	1023.6	927.5	849.0	744.9	730.5	725.7
17.5°	958.0	898.7	897.1	845.8	793.0	757.7	668.0	578.3	538.3	533.4	533.4
20°	717.7	696.8	663.2	656.8	640.8	600.7	520.6	472.6	453.4	455.0	461.4
22.5°	603.9	589.5	559.1	544.7	538.3	503.0	443.7	411.7	402.1	402.1	403.7
25°	539.9	527.0	493.4	471.0	463.0	437.3	390.9	366.8	358.8	358.8	358.8
27.5°	491.8	475.8	440.5	421.3	406.9	378.1	349.2	325.2	317.2	317.2	318.8
30°	458.2	440.5	408.5	382.9	360.4	334.8	310.8	290.0	280.3	278.7	280.3
32.5°	413.3	397.3	365.2	349.2	323.6	293.2	273.9	254.7	245.1	246.7	245.1
35°	322.0	317.2	294.8	299.6	285.1	259.5	241.9	221.1	209.9	208.3	211.5
37.5°	293.2	273.9	248.3	249.9	245.1	235.5	206.7	184.2	176.2	176.2	177.8
40°	270.7	251.5	222.7	208.3	209.9	209.9	179.4	155.4	147.4	145.8	149.0
42.5°	251.5	232.3	200.2	176.2	169.8	177.8	152.2	128.2	120.1	116.9	120.1
45°	238.7	217.9	181.0	153.8	134.6	144.2	125.0	105.7	96.1	96.1	94.5
47.5°	225.9	206.7	166.6	133.0	112.1	107.3	102.5	84.9	75.3	73.7	75.3
50°	214.7	195.4	150.6	115.3	94.5	83.3	83.3	67.3	60.9	57.7	59.3
52.5°	203.4	182.6	136.2	102.5	81.7	67.3	59.3	54.5	49.7	48.1	49.7
55°	187.4	166.6	121.7	88.1	70.5	56.1	46.5	44.9	41.7	38.4	41.7
57.5°	168.2	149.0	107.3	75.3	56.1	43.3	38.4	36.8	33.6	32.0	32.0
59°	157.0	139.4	99.3	65.7	49.7	38.4	35.2	33.6	30.4	27.2	28.8
60°	150.6	136.2	94.5	60.9	44.9	35.2	32.0	30.4	27.2	25.6	27.2
62.5°	133.0	121.7	83.3	49.7	35.2	25.6	22.4	24.0	22.4	20.8	22.4
65°	116.9	107.3	70.5	38.4	27.2	17.6	16.0	20.8	19.2	17.6	19.2
67.5°	104.1	92.9	59.3	28.8	19.2	9.6	11.2	17.6	17.6	16.0	17.6
70°	89.7	80.1	48.1	20.8	9.6	4.8	8.0	12.8	16.0	14.4	16.0
72.5°	73.7	62.5	36.8	14.4	4.8	0.0	4.8	11.2	16.0	14.4	16.0
75°	57.7	46.5	27.2	8.0	0.0	0.0	1.6	9.6	16.0	14.4	16.0
77.5°	41.7	33.6	16.0	1.6	0.0	0.0	1.6	9.6	16.0	14.4	16.0
80°	27.2	24.0	6.4	0.0	0.0	0.0	1.6	9.6	16.0	16.0	17.6
82.5°	17.6	12.8	0.0	0.0	0.0	0.0	3.2	12.8	17.6	19.2	19.2
85°	8.0	0.0	0.0	0.0	0.0	0.0	6.4	16.0	20.8	20.8	20.8
87.5°	0.0	0.0	0.0	0.0	0.0	3.2	11.2	19.2	24.0	24.0	24.0
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°	6965.3	6965.3	6965.3	6965.3	6965.3	6965.3	6965.3	6965.3	6965.3	6965.3	6965.3
2.5°	5728.6	5829.5	5972.1	6191.5	6369.3	6649.7	6864.3	7157.5	7453.9	7543.6	7682.9
5°	4216.3	4346.1	4669.7	4964.4	5150.3	5743.0	6117.8	6708.9	7239.2	7493.9	7771.0
7.5°	2928.4	3082.1	3328.8	3740.5	4131.4	4613.6	5219.1	5895.2	6672.1	7035.7	7426.6
10°	2055.3	2247.5	2595.2	2933.2	3425.0	3883.1	4480.6	5227.1	6084.2	6513.5	7003.7
12.5°	1297.6	1469.0	1928.7	2308.4	2921.9	3453.8	4004.9	4680.9	5674.1	6114.6	6628.8
15°	741.7	885.9	1100.5	1587.5	2268.4	2971.6	3658.8	4443.8	5464.2	6007.3	6563.2
17.5°	552.7	591.1	687.2	962.8	1582.7	2404.5	3340.1	4371.7	5606.8	6244.4	6878.8
20°	464.6	490.2	535.0	644.0	1009.2	1851.8	3029.3	4384.5	6068.2	6869.1	7471.5
22.5°	416.5	432.5	469.4	539.9	688.8	1348.8	2665.6	4459.8	6627.2	7636.5	8331.7
25°	365.2	386.1	418.1	479.0	573.5	935.5	2306.8	4628.0	7410.6	8610.5	9264.0
27.5°	325.2	344.4	376.5	432.5	503.0	714.5	1888.7	4772.2	8237.2	9590.8	10125.9
30°	285.1	304.4	336.4	381.3	445.3	578.3	1438.5	4857.1	9039.8	10326.1	10737.8
32.5°	251.5	267.5	298.0	338.0	390.9	490.2	1134.2	4769.0	9653.3	10994.2	11269.7
35°	217.9	237.1	262.7	299.6	346.0	418.1	943.5	4464.6	10180.4	11681.4	11780.7
37.5°	182.6	205.0	232.3	265.9	302.8	384.5	757.7	4128.2	10744.2	12538.4	12375.0
40°	153.8	174.6	200.2	237.1	270.7	352.4	583.1	3769.4	11353.0	13342.6	13023.8
42.5°	125.0	147.4	177.8	211.5	267.5	307.6	451.7	3397.7	11899.2	14042.7	13610.1
45°	99.3	118.5	150.6	193.8	265.9	264.3	349.2	3030.9	12310.9	14542.5	14047.5
47.5°	78.5	94.5	126.6	189.0	245.1	224.3	280.3	2803.4	12743.5	14992.6	14382.3
50°	62.5	78.5	108.9	197.0	214.7	192.2	235.5	2840.2	13161.6	15221.7	14520.0
52.5°	52.9	68.9	94.5	155.4	165.0	168.2	206.7	3010.1	13701.4	15466.8	14794.0
55°	46.5	60.9	80.1	108.9	128.2	150.6	189.0	3133.4	14423.9	15992.2	15397.9
57.5°	36.8	52.9	72.1	92.9	105.7	131.4	174.6	3143.0	15077.5	16666.6	16200.5
59°	33.6	48.1	67.3	88.1	94.5	118.5	165.0	3061.3	15101.5	16767.6	16568.9
60°	30.4	46.5	64.1	81.7	89.7	112.1	157.0	2966.8	14883.7	16607.4	16721.1
62.5°	25.6	40.0	56.1	65.7	76.9	92.9	136.2	2624.0	13828.0	15881.7	16439.2
65°	22.4	35.2	48.1	54.5	64.1	80.1	120.1	2100.2	12661.8	14898.1	15631.8
67.5°	20.8	32.0	41.7	46.5	56.1	73.7	107.3	1483.4	11151.1	13650.2	14419.1
70°	19.2	30.4	36.8	43.3	49.7	62.5	91.3	865.1	8589.6	11461.9	12274.1
72.5°	19.2	28.8	32.0	36.8	43.3	56.1	84.9	467.8	5872.7	8743.4	9792.7
75°	19.2	27.2	28.8	32.0	38.4	51.3	75.3	245.1	3796.6	6074.6	7497.1
77.5°	19.2	25.6	28.8	30.4	36.8	44.9	65.7	153.8	2529.5	4254.8	5067.0
80°	20.8	25.6	27.2	30.4	35.2	41.7	54.5	102.5	1486.6	2559.9	3083.7
82.5°	22.4	25.6	28.8	32.0	36.8	40.0	48.1	64.1	685.6	1693.3	1915.9
85°	24.0	27.2	30.4	33.6	38.4	40.0	44.9	46.5	112.1	764.1	1033.3
87.5°	25.6	28.8	32.0	35.2	41.7	41.7	41.7	41.7	38.4	81.7	208.3
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-SA8A-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6965.3	6965.3	6965.3	6965.3	6965.3	6965.3	6965.3	6965.3	6965.3	6965.3
2.5°	7859.1	8040.2	8166.7	8198.8	8107.4	8065.8	7950.5	7771.0	7662.1	7657.3
5°	8282.1	8706.6	9001.3	9051.0	8874.8	8576.8	8222.8	7766.2	7498.7	7418.6
7.5°	8210.0	8953.3	9427.4	9496.3	9200.0	8631.3	7945.6	7210.4	6918.8	6795.5
10°	7913.6	8820.3	9497.9	9606.9	9211.2	8410.2	7538.8	6718.6	6356.5	6262.0
12.5°	7660.5	8576.8	9179.1	9329.7	9030.2	8230.8	7295.3	6403.0	6015.3	5927.2
15°	7550.0	8288.5	8656.9	8733.8	8684.1	8118.7	7269.6	6354.9	5911.2	5815.1
17.5°	7660.5	8043.4	8089.8	8168.3	8278.9	8107.4	7516.3	6616.0	6137.1	6018.5
20°	7950.5	7830.3	7638.1	7671.7	7924.8	8153.9	7955.3	7194.3	6611.2	6484.7
22.5°	8443.9	7777.4	7341.7	7312.9	7633.3	8309.3	8599.2	7977.7	7301.7	7176.7
25°	9049.4	7910.4	7232.8	7170.3	7519.5	8536.8	9299.3	8937.3	8198.8	8008.1
27.5°	9709.4	8185.9	7232.8	7171.9	7509.9	8738.6	9898.4	9786.3	9127.9	8919.6
30°	10071.4	8413.4	7336.9	7268.0	7628.5	8855.6	10218.8	10540.8	9826.3	9568.4
32.5°	10395.0	8729.0	7540.4	7410.6	7876.8	9028.6	10505.6	11181.6	10382.2	10209.2
35°	10693.0	9067.0	7820.7	7670.1	8203.6	9265.7	10822.7	11854.4	11155.9	10894.8
37.5°	11021.4	9459.5	8258.0	8129.9	8749.8	9727.0	11199.2	12738.7	11916.9	11588.5
40°	11378.6	9914.4	8977.3	8922.8	9618.1	10249.2	11675.0	13682.2	12785.1	12411.9
42.5°	11742.3	10438.3	9858.4	9948.1	10601.7	10981.3	12163.6	14407.9	13496.4	13084.7
45°	12072.3	11107.9	11003.8	11447.5	11748.7	11695.8	12525.6	14918.9	14116.3	13722.3
47.5°	12488.8	12083.5	12389.4	13073.5	13081.5	12472.7	12799.5	15337.0	14649.8	14255.7
50°	12954.9	13235.3	14178.8	14875.7	14688.2	13236.9	13119.9	15832.0	15200.9	14885.3
52.5°	13494.8	14524.8	15832.0	16605.8	16168.4	14069.9	13653.4	16367.1	16075.5	15772.8
55°	14122.7	15404.3	17480.4	18097.2	17656.6	15104.7	14464.0	17092.8	17063.9	16857.3
57.5°	14832.4	16333.4	18435.2	19269.8	18877.3	16319.0	15596.5	17776.8	17667.9	17552.5
59°	15393.1	16810.8	18856.5	19721.5	19484.5	17169.6	16357.5	18202.9	17807.2	17634.2
60°	15732.7	17134.4	19011.9	19782.4	19728.0	17675.9	16839.6	18411.2	17805.6	17565.3
62.5°	16740.3	17699.9	18952.6	19511.7	19724.8	18646.6	18254.2	18640.2	17475.6	17123.2
65°	17099.2	17512.5	17970.6	17901.7	18084.4	18597.0	19157.7	18388.7	16770.8	16269.4
67.5°	16400.7	15457.2	15619.0	15159.2	15069.5	16533.7	18790.8	17158.4	15391.5	14777.9
70°	13824.8	11841.6	11759.9	11971.3	11391.4	13385.9	16873.3	14789.2	13115.1	12419.9
72.5°	10882.0	8368.6	7679.7	8458.3	8440.6	10212.4	14017.0	10494.3	8860.4	8801.1
75°	8557.6	5826.3	5113.4	5240.0	5483.5	7393.0	11164.0	6664.1	5456.2	4972.4
77.5°	5744.6	4128.2	3851.1	3695.7	3958.4	4746.6	7063.0	3614.0	3059.7	2897.9
80°	3311.2	2998.8	3405.7	3091.8	3232.7	2990.8	3513.1	1658.0	1376.1	1489.8
82.5°	2154.6	1707.7	1819.8	1352.0	1848.6	1864.7	1127.8	490.2	414.9	440.5
85°	1347.2	801.0	450.1	320.4	637.6	1172.6	352.4	30.4	35.2	30.4
87.5°	349.2	133.0	56.1	83.3	102.5	91.3	81.7	4.8	1.6	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)