

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: P456410

Luminaire Tested: **GALN-SA7C-830-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456410
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-SA7C-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 27945 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 377
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



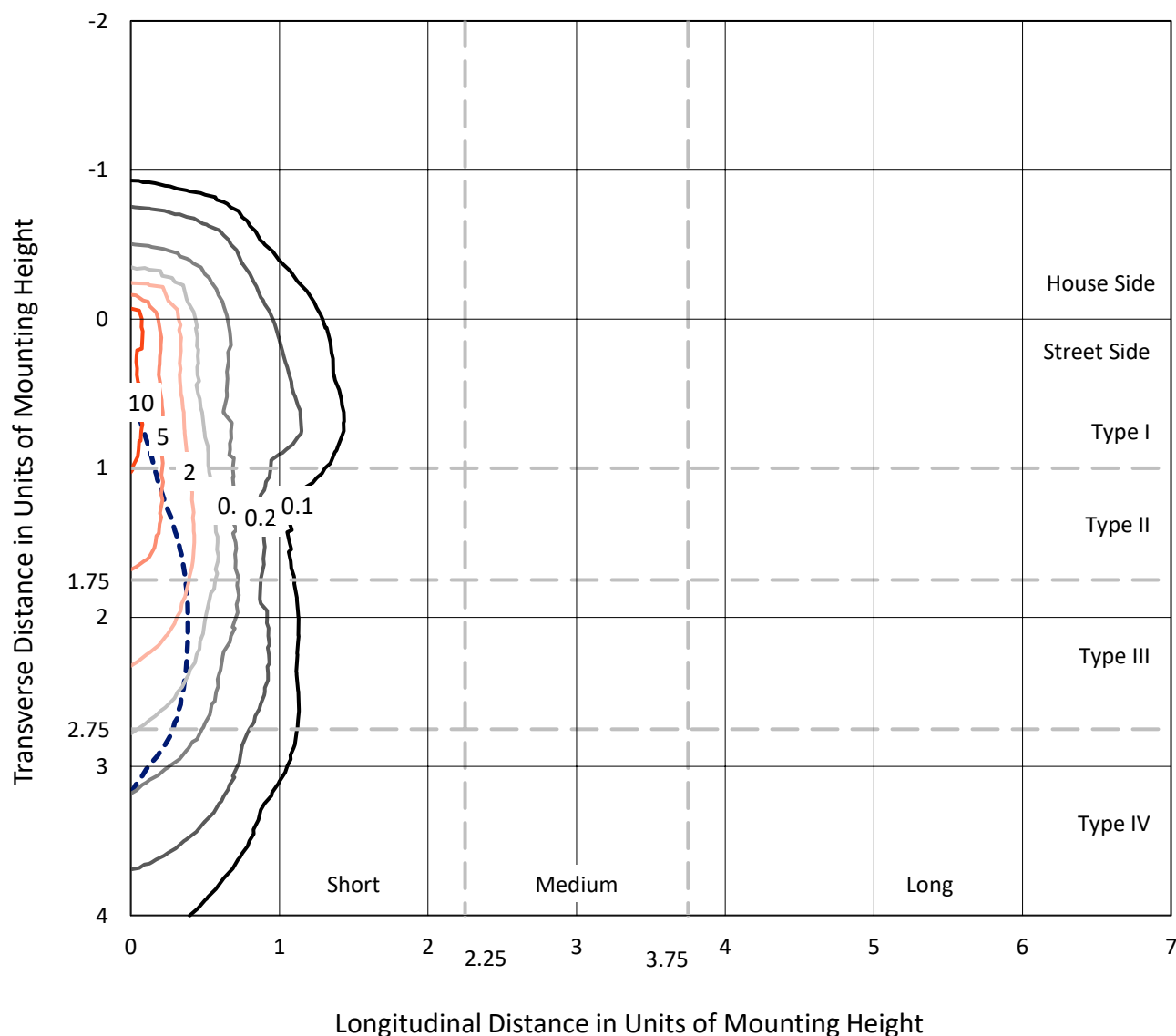
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

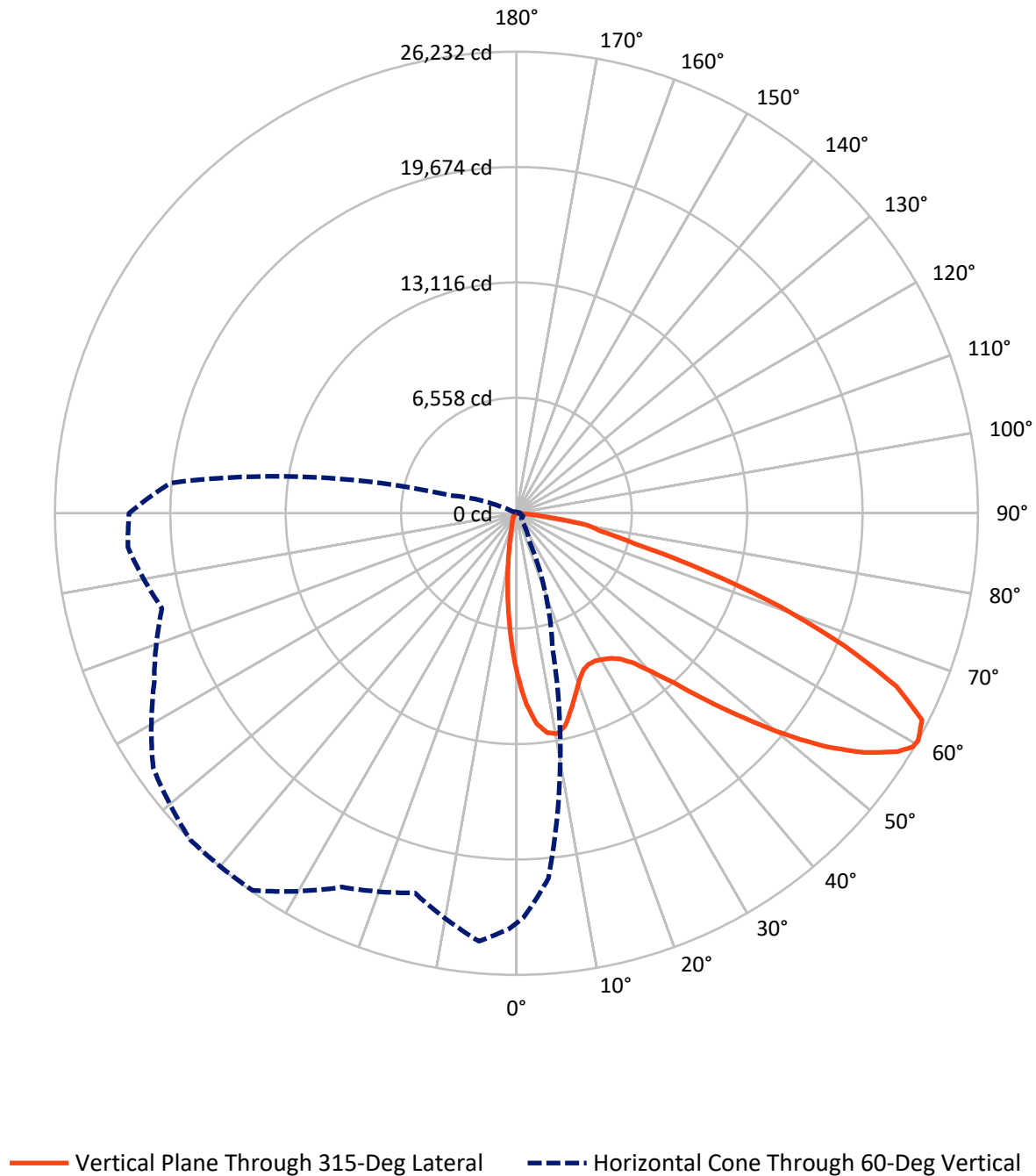


Based on 25 foot mounting height. Maximum calculated value = 14.8 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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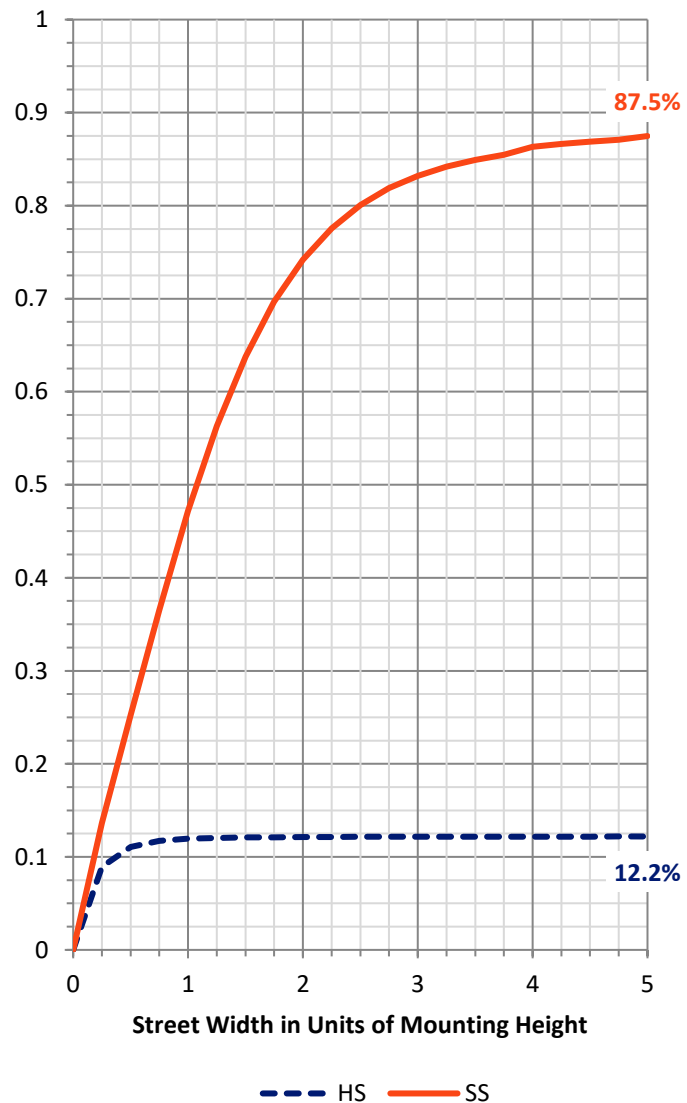
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3446.7	0.0	3446.7
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	24498.3	0.0	24498.3
	% Fixture	87.7	0.0	87.7
Total	Lumens	27945.0	0.0	27945.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.0	2.5
10°-20°	1364.3	4.9
20°-30°	2000.4	7.2
30°-40°	2975.0	10.6
40°-50°	4329.6	15.5
50°-60°	6243.6	22.3
60°-70°	6867.3	24.6
70°-80°	3076.0	11.0
80°-90°	401.9	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°	27945.0	100.0
0°-180°	27945.0	100.0

Coefficient of Utilization



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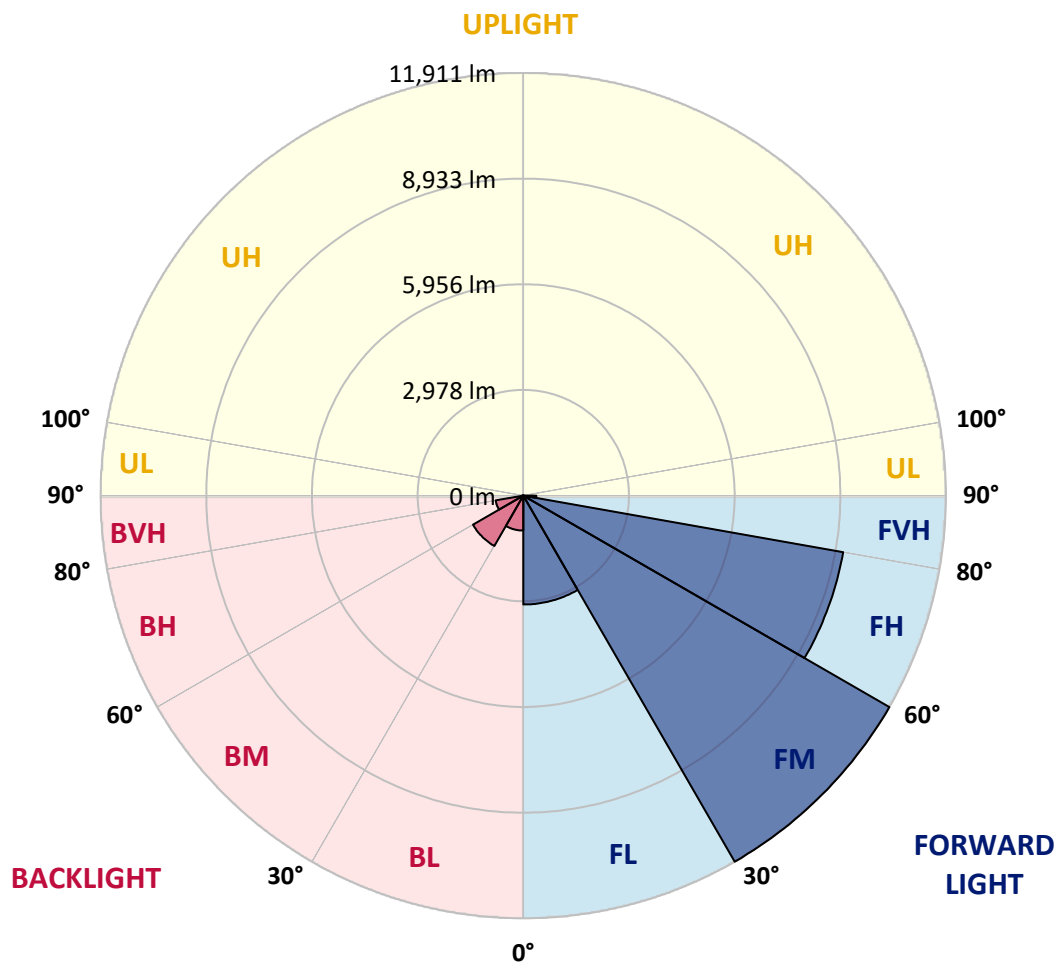
CATALOG NUMBER: GALN-SA7C-830-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3066.9	11.0			
FM	(30°-60°)	11911.0	42.6			
FH	(60°-80°)	9152.8	32.8			G4/12000
FVH	(80°-90°)	367.6	1.3			G3/500
BL	(0°-30°)	984.8	3.5	B2/1000		
BM	(30°-60°)	1637.1	5.9	B2/2500		
BH	(60°-80°)	790.4	2.8	B2/1000		G2/1000
BVH	(80°-90°)	34.4	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9236.2	9236.2	9236.2	9236.2	9236.2	9236.2	9236.2	9236.2	9236.2	9236.2	9236.2
2.5°	10153.9	10109.3	10007.3	9697.2	9427.4	9074.8	8717.9	8437.5	8265.4	7948.9	7804.5
5°	9837.4	9858.6	9563.4	8926.1	8216.6	7732.3	7203.3	6782.7	6319.6	6026.5	5718.5
7.5°	9011.1	8968.6	8647.8	7759.9	6897.4	6196.4	5527.3	4983.5	4641.5	4367.4	4138.0
10°	8303.7	8271.8	7861.8	6719.0	5792.8	5268.1	4815.7	4339.8	3972.3	3570.9	3250.1
12.5°	7859.7	7787.5	7315.9	6122.1	5368.0	4879.4	4386.6	3891.6	3383.9	2978.2	2589.5
15°	7711.0	7606.9	7082.2	5916.0	5096.1	4475.8	3857.6	3288.3	2704.2	2255.9	1962.8
17.5°	7980.8	7808.7	7250.1	5879.9	4771.1	3949.0	3188.5	2447.1	1839.6	1497.6	1317.0
20°	8598.9	8401.4	7674.9	5843.8	4409.9	3358.4	2423.8	1729.1	1272.4	1085.5	985.7
22.5°	9516.6	9244.7	8303.7	5901.2	4076.4	2782.8	1750.4	1221.4	1011.1	894.3	824.2
25°	10619.1	10391.8	9100.3	6105.1	3813.0	2330.3	1353.1	998.4	851.8	779.6	726.5
27.5°	11827.8	11464.6	10130.5	6349.4	3573.0	1979.8	1187.5	892.2	758.4	692.5	664.9
30°	12688.1	12405.6	10993.0	6519.3	3273.5	1716.4	1085.5	879.4	760.5	681.9	630.9
32.5°	13537.8	13176.7	11715.2	6597.9	3054.7	1533.7	938.9	766.9	667.0	626.7	575.7
35°	14447.0	14068.9	12435.3	6555.4	2891.1	1412.6	851.8	684.0	571.4	503.4	452.5
37.5°	15366.8	14967.4	13151.2	6402.5	2789.1	1363.8	783.8	650.0	539.6	469.5	414.2
40°	16458.7	15925.5	13822.5	6277.1	2682.9	1338.3	739.2	628.8	516.2	441.8	386.6
42.5°	17350.8	16843.1	14457.6	6211.3	2610.7	1278.8	739.2	611.8	501.3	418.5	361.1
45°	18196.3	17669.5	15143.8	6264.4	2581.0	1204.4	747.7	609.7	490.7	401.5	344.1
47.5°	18903.7	18447.0	15849.0	6464.1	2542.7	1123.7	703.1	639.4	484.3	386.6	327.1
50°	19738.5	19296.7	16781.5	6867.7	2474.7	1043.0	647.9	688.3	482.2	373.9	312.3
52.5°	20915.3	20437.4	18068.8	7326.5	2366.4	919.8	596.9	681.9	473.7	352.6	297.4
55°	22353.4	21966.8	19560.1	7876.7	2217.7	781.7	516.2	605.4	448.2	316.5	271.9
57.5°	23275.4	22946.1	20677.4	8114.6	1990.4	639.4	454.6	507.7	410.0	282.5	242.2
59°	23383.7	23086.3	20911.1	8036.0	1841.7	584.2	424.8	435.5	399.4	263.4	225.2
60°	23292.4	22984.3	20817.6	7883.1	1703.6	545.9	399.4	386.6	401.5	252.8	212.4
62.5°	22706.1	22179.3	19910.6	7107.7	1489.1	501.3	354.7	316.5	354.7	227.3	189.1
65°	21573.8	20783.6	18115.6	6015.9	1404.1	475.8	301.6	265.5	269.8	199.7	163.6
67.5°	19596.2	18599.9	15725.8	4887.9	1368.0	478.0	254.9	237.9	208.2	169.9	144.4
70°	16469.3	15475.1	12618.0	4021.2	1351.0	478.0	216.7	203.9	174.2	142.3	125.3
72.5°	11670.6	10600.0	8511.9	3158.8	1217.2	475.8	184.8	184.8	142.3	119.0	102.0
75°	6593.7	6602.2	5351.0	2234.7	1011.1	393.0	148.7	146.6	104.1	91.3	76.5
77.5°	3842.8	3774.8	3607.0	960.2	469.5	178.4	104.1	89.2	72.2	65.9	55.2
80°	1975.5	1625.0	1582.6	348.4	167.8	112.6	72.2	51.0	46.7	42.5	38.2
82.5°	584.2	586.3	522.6	140.2	93.5	74.3	36.1	27.6	25.5	23.4	23.4
85°	40.4	25.5	29.7	42.5	57.4	29.7	2.1	6.4	6.4	8.5	10.6
87.5°	4.2	2.1	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°	9236.2	9236.2	9236.2	9236.2	9236.2	9236.2	9236.2	9236.2	9236.2	9236.2	9236.2
2.5°	7645.2	7738.6	7564.4	7568.7	7424.2	7471.0	7301.0	7356.3	7256.4	7332.9	7558.1
5°	5752.5	5773.7	5633.5	5588.9	5610.1	5697.2	5731.2	5576.1	5642.0	5512.4	5503.9
7.5°	4053.1	4078.6	3997.8	3987.2	4140.2	4104.0	4169.9	4010.6	3859.8	3925.6	3804.5
10°	3148.1	3041.9	2876.2	2829.5	2799.8	2818.9	2818.9	2674.4	2653.2	2595.8	2682.9
12.5°	2485.4	2355.8	2198.6	1986.2	1933.1	1928.8	1850.2	1722.8	1682.4	1633.5	1705.8
15°	1805.6	1752.5	1620.8	1501.8	1380.8	1357.4	1229.9	1125.9	987.8	968.7	962.3
17.5°	1270.3	1191.7	1189.6	1121.6	1051.5	1004.8	885.8	766.9	713.7	707.4	707.4
20°	951.7	924.0	879.4	870.9	849.7	796.6	690.4	626.7	601.2	603.3	611.8
22.5°	800.8	781.7	741.4	722.2	713.7	667.0	588.4	545.9	533.2	533.2	535.3
25°	715.9	698.9	654.3	624.5	613.9	579.9	518.3	486.5	475.8	475.8	475.8
27.5°	652.1	630.9	584.2	558.7	539.6	501.3	463.1	431.2	420.6	420.6	422.7
30°	607.5	584.2	541.7	507.7	478.0	444.0	412.1	384.5	371.7	369.6	371.7
32.5°	548.1	526.8	484.3	463.1	429.1	388.7	363.2	337.8	325.0	327.1	325.0
35°	427.0	420.6	390.9	397.2	378.1	344.1	320.8	293.1	278.3	276.2	280.4
37.5°	388.7	363.2	329.3	331.4	325.0	312.3	274.0	244.3	233.7	233.7	235.8
40°	359.0	333.5	295.3	276.2	278.3	278.3	237.9	206.1	195.4	193.3	197.6
42.5°	333.5	308.0	265.5	233.7	225.2	235.8	201.8	169.9	159.3	155.1	159.3
45°	316.5	288.9	240.0	203.9	178.4	191.2	165.7	140.2	127.5	127.5	125.3
47.5°	299.5	274.0	220.9	176.3	148.7	142.3	136.0	112.6	99.8	97.7	99.8
50°	284.6	259.2	199.7	152.9	125.3	110.5	110.5	89.2	80.7	76.5	78.6
52.5°	269.8	242.2	180.6	136.0	108.3	89.2	78.6	72.2	65.9	63.7	65.9
55°	248.5	220.9	161.4	116.8	93.5	74.3	61.6	59.5	55.2	51.0	55.2
57.5°	223.0	197.6	142.3	99.8	74.3	57.4	51.0	48.9	44.6	42.5	42.5
59°	208.2	184.8	131.7	87.1	65.9	51.0	46.7	44.6	40.4	36.1	38.2
60°	199.7	180.6	125.3	80.7	59.5	46.7	42.5	40.4	36.1	34.0	36.1
62.5°	176.3	161.4	110.5	65.9	46.7	34.0	29.7	31.9	29.7	27.6	29.7
65°	155.1	142.3	93.5	51.0	36.1	23.4	21.2	27.6	25.5	23.4	25.5
67.5°	138.1	123.2	78.6	38.2	25.5	12.7	14.9	23.4	23.4	21.2	23.4
70°	119.0	106.2	63.7	27.6	12.7	6.4	10.6	17.0	21.2	19.1	21.2
72.5°	97.7	82.8	48.9	19.1	6.4	0.0	6.4	14.9	21.2	19.1	21.2
75°	76.5	61.6	36.1	10.6	0.0	0.0	2.1	12.7	21.2	19.1	21.2
77.5°	55.2	44.6	21.2	2.1	0.0	0.0	2.1	12.7	21.2	19.1	21.2
80°	36.1	31.9	8.5	0.0	0.0	0.0	2.1	12.7	21.2	21.2	23.4
82.5°	23.4	17.0	0.0	0.0	0.0	0.0	4.2	17.0	23.4	25.5	25.5
85°	10.6	0.0	0.0	0.0	0.0	0.0	8.5	21.2	27.6	27.6	27.6
87.5°	0.0	0.0	0.0	0.0	0.0	4.2	14.9	25.5	31.9	31.9	31.9
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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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9236.2	9236.2	9236.2	9236.2	9236.2	9236.2	9236.2	9236.2	9236.2	9236.2	9236.2
2.5°	7596.3	7730.1	7919.2	8210.2	8446.0	8817.7	9102.4	9491.1	9884.1	10003.1	10187.9
5°	5591.0	5763.1	6192.2	6583.0	6829.5	7615.4	8112.5	8896.3	9599.5	9937.2	10304.7
7.5°	3883.1	4087.0	4414.2	4960.1	5478.4	6117.8	6920.8	7817.2	8847.5	9329.7	9848.0
10°	2725.4	2980.3	3441.3	3889.5	4541.6	5149.2	5941.5	6931.4	8067.9	8637.2	9287.2
12.5°	1720.6	1947.9	2557.6	3061.0	3874.6	4579.9	5310.6	6207.0	7524.1	8108.2	8790.1
15°	983.5	1174.7	1459.4	2105.1	3007.9	3940.5	4851.8	5892.7	7245.8	7965.9	8703.0
17.5°	732.9	783.8	911.3	1276.7	2098.8	3188.5	4429.1	5797.1	7434.9	8280.3	9121.5
20°	616.0	650.0	709.5	853.9	1338.3	2455.6	4016.9	5814.1	8046.6	9108.8	9907.5
22.5°	552.3	573.5	622.4	715.9	913.4	1788.6	3534.7	5913.9	8788.0	10126.3	11048.2
25°	484.3	511.9	554.4	635.1	760.5	1240.6	3058.9	6136.9	9826.8	11417.8	12284.5
27.5°	431.2	456.7	499.2	573.5	667.0	947.4	2504.5	6328.1	10922.9	12717.9	13427.4
30°	378.1	403.6	446.1	505.6	590.5	766.9	1907.6	6440.7	11987.1	13692.9	14238.8
32.5°	333.5	354.7	395.1	448.2	518.3	650.0	1504.0	6323.9	12800.7	14578.7	14944.1
35°	288.9	314.4	348.4	397.2	458.8	554.4	1251.2	5920.3	13499.6	15490.0	15621.7
37.5°	242.2	271.9	308.0	352.6	401.5	509.8	1004.8	5474.2	14247.3	16626.5	16409.8
40°	203.9	231.5	265.5	314.4	359.0	467.3	773.2	4998.4	15054.5	17692.8	17270.1
42.5°	165.7	195.4	235.8	280.4	354.7	407.9	599.0	4505.5	15778.9	18621.1	18047.6
45°	131.7	157.2	199.7	257.0	352.6	350.5	463.1	4019.1	16324.8	19283.9	18627.5
47.5°	104.1	125.3	167.8	250.7	325.0	297.4	371.7	3717.4	16898.4	19880.8	19071.5
50°	82.8	104.1	144.4	261.3	284.6	254.9	312.3	3766.3	17452.8	20184.6	19254.2
52.5°	70.1	91.3	125.3	206.1	218.8	223.0	274.0	3991.5	18168.7	20509.6	19617.4
55°	61.6	80.7	106.2	144.4	169.9	199.7	250.7	4155.0	19126.7	21206.3	20418.3
57.5°	48.9	70.1	95.6	123.2	140.2	174.2	231.5	4167.8	19993.4	22100.7	21482.5
59°	44.6	63.7	89.2	116.8	125.3	157.2	218.8	4059.4	20025.3	22234.5	21971.1
60°	40.4	61.6	85.0	108.3	119.0	148.7	208.2	3934.1	19736.4	22022.1	22172.9
62.5°	34.0	53.1	74.3	87.1	102.0	123.2	180.6	3479.5	18336.5	21059.8	21799.0
65°	29.7	46.7	63.7	72.2	85.0	106.2	159.3	2784.9	16790.0	19755.5	20728.4
67.5°	27.6	42.5	55.2	61.6	74.3	97.7	142.3	1967.1	14786.9	18100.7	19120.3
70°	25.5	40.4	48.9	57.4	65.9	82.8	121.1	1147.1	11390.2	15199.0	16276.0
72.5°	25.5	38.2	42.5	48.9	57.4	74.3	112.6	620.3	7787.5	11594.1	12985.5
75°	25.5	36.1	38.2	42.5	51.0	68.0	99.8	325.0	5034.5	8055.1	9941.5
77.5°	25.5	34.0	38.2	40.4	48.9	59.5	87.1	203.9	3354.2	5642.0	6719.0
80°	27.6	34.0	36.1	40.4	46.7	55.2	72.2	136.0	1971.3	3394.5	4089.2
82.5°	29.7	34.0	38.2	42.5	48.9	53.1	63.7	85.0	909.2	2245.3	2540.6
85°	31.9	36.1	40.4	44.6	51.0	53.1	59.5	61.6	148.7	1013.3	1370.1
87.5°	34.0	38.2	42.5	46.7	55.2	55.2	55.2	55.2	51.0	108.3	276.2
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-SA7C-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9236.2	9236.2	9236.2	9236.2	9236.2	9236.2	9236.2	9236.2	9236.2	9236.2
2.5°	10421.6	10661.6	10829.4	10871.9	10750.8	10695.6	10542.6	10304.7	10160.3	10153.9
5°	10982.4	11545.3	11936.1	12002.0	11768.3	11373.2	10903.8	10298.3	9943.6	9837.4
7.5°	10886.8	11872.4	12501.2	12592.5	12199.5	11445.4	10536.3	9561.2	9174.6	9011.1
10°	10493.8	11696.1	12594.7	12739.1	12214.4	11152.3	9996.7	8909.1	8429.0	8303.7
12.5°	10158.1	11373.2	12171.9	12371.6	11974.4	10914.4	9673.8	8490.6	7976.5	7859.7
15°	10011.6	10990.8	11479.4	11581.4	11515.5	10765.7	9639.8	8426.9	7838.5	7711.0
17.5°	10158.1	10665.8	10727.4	10831.5	10978.1	10750.8	9967.0	8773.1	8138.0	7980.8
20°	10542.6	10383.3	10128.4	10173.0	10508.6	10812.4	10549.0	9540.0	8766.8	8598.9
22.5°	11196.9	10313.2	9735.4	9697.2	10122.0	11018.5	11403.0	10578.7	9682.3	9516.6
25°	11999.9	10489.5	9591.0	9508.1	9971.2	11320.1	12331.2	11851.2	10871.9	10619.1
27.5°	12875.1	10854.9	9591.0	9510.2	9958.5	11587.8	13125.7	12977.0	12104.0	11827.8
30°	13355.1	11156.5	9729.0	9637.7	10115.7	11742.8	13550.6	13977.5	13030.1	12688.1
32.5°	13784.2	11575.0	9998.8	9826.8	10444.9	11972.3	13930.8	14827.2	13767.2	13537.8
35°	14179.3	12023.2	10370.6	10170.9	10878.3	12286.6	14351.4	15719.4	14793.2	14447.0
37.5°	14614.8	12543.7	10950.5	10780.5	11602.6	12898.4	14850.6	16892.0	15802.3	15366.8
40°	15088.5	13147.0	11904.3	11832.1	12754.0	13590.9	15481.5	18143.2	16953.6	16458.7
42.5°	15570.7	13841.6	13072.6	13191.6	14058.3	14561.7	16129.4	19105.5	17896.8	17350.8
45°	16008.3	14729.5	14591.4	15179.9	15579.2	15509.1	16609.5	19783.1	18718.9	18196.3
47.5°	16560.6	16023.2	16428.9	17336.0	17346.6	16539.4	16972.7	20337.5	19426.2	18903.7
50°	17178.8	17550.5	18801.7	19725.7	19477.2	17552.6	17397.6	20993.9	20157.0	19738.5
52.5°	17894.6	19260.5	20993.9	22019.9	21440.0	18657.3	18104.9	21703.4	21316.8	20915.3
55°	18727.4	20426.8	23179.8	23997.6	23413.4	20029.5	19179.8	22665.7	22627.5	22353.4
57.5°	19668.4	21658.8	24445.8	25552.6	25032.1	21639.7	20681.7	23572.8	23428.3	23275.4
59°	20411.9	22291.8	25004.5	26151.6	25837.2	22767.7	21690.7	24137.8	23613.1	23383.7
60°	20862.2	22720.9	25210.6	26232.3	26160.1	23438.9	22330.1	24414.0	23611.0	23292.4
62.5°	22198.4	23470.8	25132.0	25873.3	26155.8	24726.2	24205.8	24717.7	23173.4	22706.1
65°	22674.2	23222.3	23829.8	23738.4	23980.6	24660.4	25403.9	24384.2	22238.7	21573.8
67.5°	21748.0	20496.9	20711.4	20101.7	19982.8	21924.3	24917.4	22752.8	20409.8	19596.2
70°	18332.2	15702.4	15594.1	15874.5	15105.5	17750.2	22374.7	19611.0	17391.2	16469.3
72.5°	14430.0	11097.1	10183.6	11216.0	11192.7	13542.1	18587.2	13915.9	11749.2	11670.6
75°	11347.7	7725.9	6780.6	6948.4	7271.3	9803.4	14803.9	8836.9	7235.2	6593.7
77.5°	7617.5	5474.2	5106.7	4900.6	5249.0	6294.1	9365.8	4792.3	4057.3	3842.8
80°	4390.8	3976.6	4516.1	4099.8	4286.7	3966.0	4658.5	2198.6	1824.7	1975.5
82.5°	2857.1	2264.4	2413.1	1792.9	2451.4	2472.6	1495.5	650.0	550.2	584.2
85°	1786.5	1062.1	596.9	424.8	845.4	1554.9	467.3	40.4	46.7	40.4
87.5°	463.1	176.3	74.3	110.5	136.0	121.1	108.3	6.4	2.1	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)