

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: P454438

Luminaire Tested: **GALN-SA5C-740-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454438
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-SA5C-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 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: 25284 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

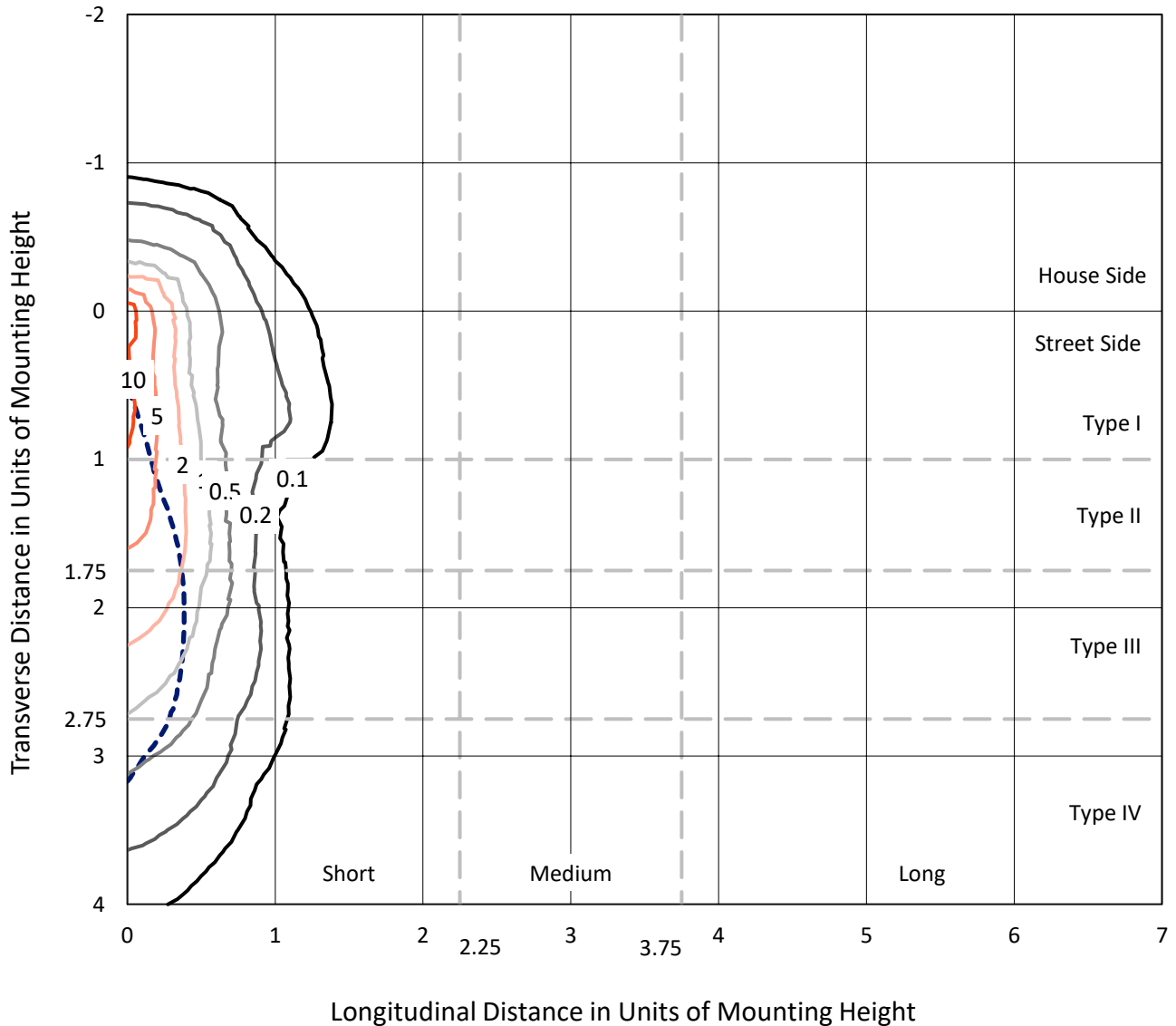
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

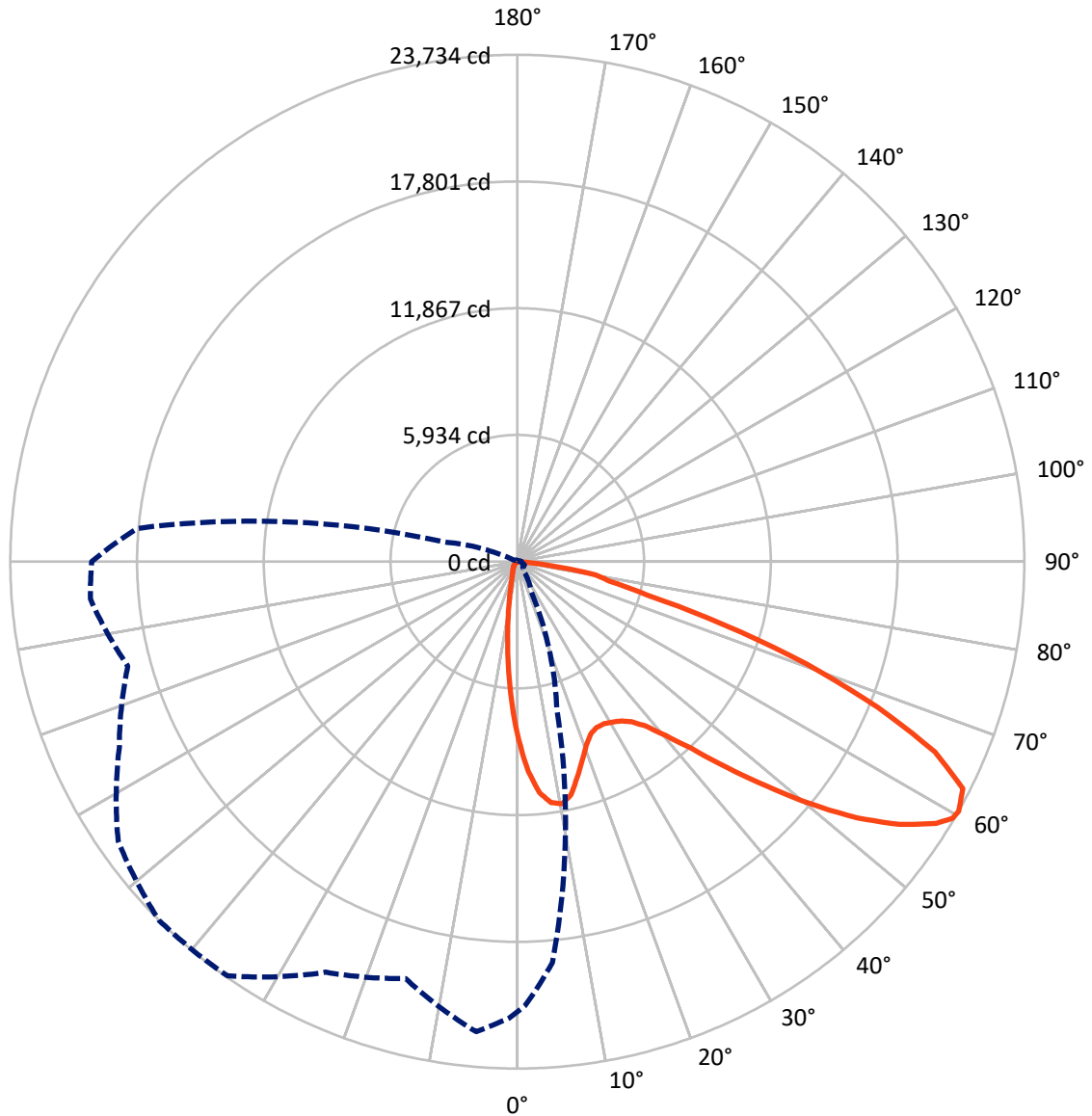
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3118.5	0.0	3118.5
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	22165.5	0.0	22165.5
	% Fixture	87.7	0.0	87.7
Total	Lumens	25284.0	0.0	25284.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.5	2.5
10°-20°	1234.4	4.9
20°-30°	1810.0	7.2
30°-40°	2691.7	10.6
40°-50°	3917.3	15.5
50°-60°	5649.0	22.3
60°-70°	6213.3	24.6
70°-80°	2783.1	11.0
80°-90°	363.7	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°	25284.0	100.0
0°-180°	25284.0	100.0

Coefficient of Utilization



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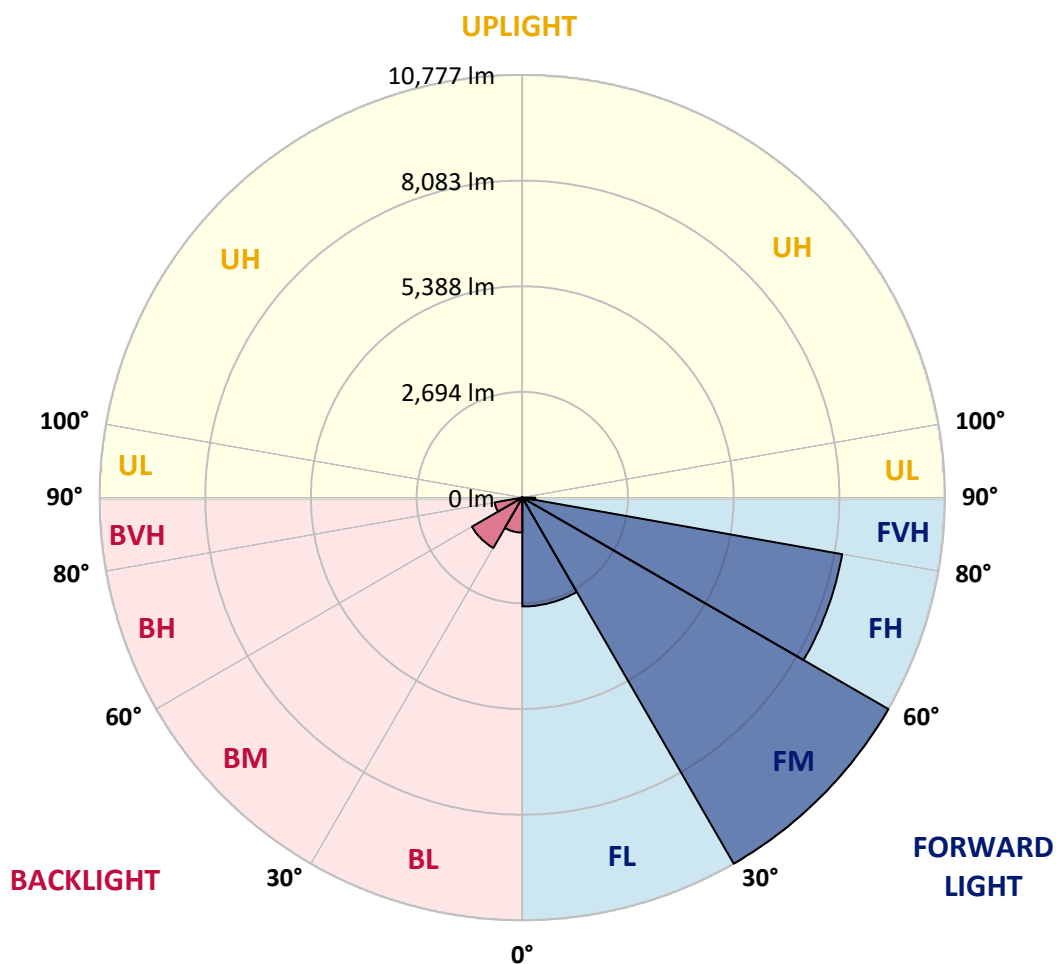
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2774.8	11.0			
FM	(30°-60°)	10776.8	42.6			
FH	(60°-80°)	8281.3	32.8			G4/12000
FVH	(80°-90°)	332.6	1.3			G3/500
BL	(0°-30°)	891.1	3.5	B2/1000		
BM	(30°-60°)	1481.2	5.9	B2/2500		
BH	(60°-80°)	715.2	2.8	B2/1000		G2/1000
BVH	(80°-90°)	31.1	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°	8356.7	8356.7	8356.7	8356.7	8356.7	8356.7	8356.7	8356.7	8356.7	8356.7	8356.7
2.5°	9187.0	9146.7	9054.4	8773.8	8529.7	8210.7	7887.8	7634.1	7478.4	7192.0	7061.3
5°	8900.6	8919.9	8652.7	8076.1	7434.2	6996.0	6517.4	6136.8	5717.9	5452.6	5173.9
7.5°	8153.0	8114.6	7824.3	7021.0	6240.6	5606.4	5001.0	4508.9	4199.5	3951.6	3744.0
10°	7513.0	7484.1	7113.2	6079.2	5241.2	4766.5	4357.1	3926.6	3594.1	3230.8	2940.6
12.5°	7111.3	7045.9	6619.3	5539.1	4856.8	4414.8	3968.9	3521.0	3061.7	2694.6	2342.9
15°	6976.7	6882.6	6407.8	5352.7	4610.8	4049.6	3490.3	2975.2	2446.7	2041.1	1775.9
17.5°	7220.8	7065.2	6559.7	5320.0	4316.7	3572.9	2884.9	2214.1	1664.4	1355.0	1191.6
20°	7780.1	7601.4	6944.1	5287.3	3990.0	3038.6	2193.0	1564.5	1151.3	982.1	891.8
22.5°	8610.4	8364.4	7513.0	5339.2	3688.3	2517.8	1583.7	1105.1	914.9	809.1	745.7
25°	9607.9	9402.3	8233.7	5523.7	3449.9	2108.4	1224.3	903.3	770.7	705.4	657.3
27.5°	10701.5	10372.9	9165.9	5744.8	3232.8	1791.3	1074.4	807.2	686.1	626.6	601.6
30°	11479.9	11224.3	9946.2	5898.5	2961.8	1553.0	982.1	795.7	688.1	617.0	570.8
32.5°	12248.7	11922.0	10599.7	5969.6	2763.8	1387.7	849.5	693.8	603.5	567.0	520.9
35°	13071.3	12729.2	11251.2	5931.2	2615.8	1278.1	770.7	618.9	517.0	455.5	409.4
37.5°	13903.5	13542.2	11898.9	5792.8	2523.5	1233.9	709.2	588.1	488.2	424.8	374.8
40°	14891.4	14409.0	12506.3	5679.4	2427.4	1210.8	668.8	568.9	467.0	399.8	349.8
42.5°	15698.6	15239.3	13080.9	5619.8	2362.1	1157.0	668.8	553.5	453.6	378.6	326.7
45°	16463.6	15986.9	13701.7	5667.9	2335.2	1089.8	676.5	551.6	444.0	363.3	311.4
47.5°	17103.6	16690.4	14339.8	5848.6	2300.6	1016.7	636.2	578.5	438.2	349.8	296.0
50°	17858.9	17459.2	15183.6	6213.7	2239.1	943.7	586.2	622.7	436.3	338.3	282.5
52.5°	18923.7	18491.3	16348.3	6628.9	2141.1	832.2	540.1	617.0	428.6	319.0	269.1
55°	20224.9	19875.1	17697.5	7126.7	2006.5	707.3	467.0	547.8	405.5	286.4	246.0
57.5°	21059.0	20761.1	18708.5	7341.9	1800.9	578.5	411.3	459.4	370.9	255.6	219.1
59°	21157.0	20888.0	18919.9	7270.8	1666.3	528.5	384.4	394.0	361.3	238.3	203.7
60°	21074.4	20795.7	18835.3	7132.4	1541.4	493.9	361.3	349.8	363.3	228.7	192.2
62.5°	20543.9	20067.3	18014.6	6430.9	1347.3	453.6	321.0	286.4	321.0	205.7	171.1
65°	19519.5	18804.5	16390.6	5443.0	1270.4	430.5	272.9	240.2	244.1	180.7	148.0
67.5°	17730.2	16828.8	14228.3	4422.5	1237.7	432.4	230.6	215.3	188.4	153.8	130.7
70°	14901.0	14001.5	11416.5	3638.3	1222.4	432.4	196.0	184.5	157.6	128.8	113.4
72.5°	10559.3	9590.6	7701.3	2858.0	1101.3	430.5	167.2	167.2	128.8	107.6	92.3
75°	5965.8	5973.5	4841.4	2021.9	914.9	355.6	134.5	132.6	94.2	82.6	69.2
77.5°	3476.8	3415.3	3263.5	868.7	424.8	161.4	94.2	80.7	65.3	59.6	50.0
80°	1787.4	1470.3	1431.9	315.2	151.8	101.9	65.3	46.1	42.3	38.4	34.6
82.5°	528.5	530.5	472.8	126.8	84.6	67.3	32.7	25.0	23.1	21.1	21.1
85°	36.5	23.1	26.9	38.4	51.9	26.9	1.9	5.8	5.8	7.7	9.6
87.5°	3.8	1.9	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°	8356.7	8356.7	8356.7	8356.7	8356.7	8356.7	8356.7	8356.7	8356.7	8356.7	8356.7
2.5°	6917.2	7001.7	6844.1	6848.0	6717.3	6759.6	6605.8	6655.8	6565.4	6634.6	6838.4
5°	5204.7	5223.9	5097.1	5056.7	5075.9	5154.7	5185.5	5045.2	5104.8	4987.5	4979.8
7.5°	3667.1	3690.2	3617.1	3607.5	3745.9	3713.2	3772.8	3628.7	3492.2	3551.8	3442.2
10°	2848.4	2752.3	2602.3	2560.1	2533.2	2550.5	2550.5	2419.8	2400.5	2348.6	2427.4
12.5°	2248.7	2131.5	1989.2	1797.0	1749.0	1745.1	1674.0	1558.7	1522.2	1478.0	1543.3
15°	1633.7	1585.6	1466.5	1358.8	1249.3	1228.1	1112.8	1018.6	893.7	876.4	870.7
17.5°	1149.3	1078.2	1076.3	1014.8	951.4	909.1	801.5	693.8	645.8	640.0	640.0
20°	861.0	836.1	795.7	788.0	768.8	720.7	624.6	567.0	543.9	545.8	553.5
22.5°	724.6	707.3	670.8	653.5	645.8	603.5	532.4	493.9	482.4	482.4	484.3
25°	647.7	632.3	592.0	565.1	555.4	524.7	469.0	440.1	430.5	430.5	430.5
27.5°	590.0	570.8	528.5	505.5	488.2	453.6	419.0	390.2	380.5	380.5	382.5
30°	549.7	528.5	490.1	459.4	432.4	401.7	372.9	347.9	336.3	334.4	336.3
32.5°	495.9	476.6	438.2	419.0	388.2	351.7	328.7	305.6	294.1	296.0	294.1
35°	386.3	380.5	353.6	359.4	342.1	311.4	290.2	265.2	251.8	249.9	253.7
37.5°	351.7	328.7	297.9	299.8	294.1	282.5	247.9	221.0	211.4	211.4	213.3
40°	324.8	301.7	267.2	249.9	251.8	251.8	215.3	186.4	176.8	174.9	178.7
42.5°	301.7	278.7	240.2	211.4	203.7	213.3	182.6	153.8	144.1	140.3	144.1
45°	286.4	261.4	217.2	184.5	161.4	173.0	149.9	126.8	115.3	115.3	113.4
47.5°	271.0	247.9	199.9	159.5	134.5	128.8	123.0	101.9	90.3	88.4	90.3
50°	257.5	234.5	180.7	138.4	113.4	99.9	99.9	80.7	73.0	69.2	71.1
52.5°	244.1	219.1	163.4	123.0	98.0	80.7	71.1	65.3	59.6	57.7	59.6
55°	224.9	199.9	146.1	105.7	84.6	67.3	55.7	53.8	50.0	46.1	50.0
57.5°	201.8	178.7	128.8	90.3	67.3	51.9	46.1	44.2	40.4	38.4	38.4
59°	188.4	167.2	119.2	78.8	59.6	46.1	42.3	40.4	36.5	32.7	34.6
60°	180.7	163.4	113.4	73.0	53.8	42.3	38.4	36.5	32.7	30.8	32.7
62.5°	159.5	146.1	99.9	59.6	42.3	30.8	26.9	28.8	26.9	25.0	26.9
65°	140.3	128.8	84.6	46.1	32.7	21.1	19.2	25.0	23.1	21.1	23.1
67.5°	124.9	111.5	71.1	34.6	23.1	11.5	13.5	21.1	21.1	19.2	21.1
70°	107.6	96.1	57.7	25.0	11.5	5.8	9.6	15.4	19.2	17.3	19.2
72.5°	88.4	75.0	44.2	17.3	5.8	0.0	5.8	13.5	19.2	17.3	19.2
75°	69.2	55.7	32.7	9.6	0.0	0.0	1.9	11.5	19.2	17.3	19.2
77.5°	50.0	40.4	19.2	1.9	0.0	0.0	1.9	11.5	19.2	17.3	19.2
80°	32.7	28.8	7.7	0.0	0.0	0.0	1.9	11.5	19.2	19.2	21.1
82.5°	21.1	15.4	0.0	0.0	0.0	0.0	3.8	15.4	21.1	23.1	23.1
85°	9.6	0.0	0.0	0.0	0.0	0.0	7.7	19.2	25.0	25.0	25.0
87.5°	0.0	0.0	0.0	0.0	0.0	3.8	13.5	23.1	28.8	28.8	28.8
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°	8356.7	8356.7	8356.7	8356.7	8356.7	8356.7	8356.7	8356.7	8356.7	8356.7	8356.7
2.5°	6873.0	6994.0	7165.1	7428.4	7641.8	7978.1	8235.6	8587.4	8942.9	9050.6	9217.8
5°	5058.6	5214.3	5602.5	5956.2	6179.1	6890.3	7340.0	8049.2	8685.4	8991.0	9323.5
7.5°	3513.4	3697.9	3993.9	4487.8	4956.8	5535.3	6261.8	7072.8	8005.0	8441.3	8910.3
10°	2465.9	2696.5	3113.6	3519.1	4109.2	4658.9	5375.7	6271.4	7299.6	7814.7	8402.9
12.5°	1556.8	1762.4	2314.1	2769.6	3505.7	4143.8	4804.9	5616.0	6807.6	7336.2	7953.1
15°	889.9	1062.8	1320.4	1904.7	2721.5	3565.3	4389.8	5331.5	6555.8	7207.4	7874.3
17.5°	663.1	709.2	824.5	1155.1	1898.9	2884.9	4007.3	5245.1	6726.9	7491.8	8252.9
20°	557.4	588.1	641.9	772.6	1210.8	2221.8	3634.4	5260.4	7280.4	8241.4	8964.1
22.5°	499.7	518.9	563.1	647.7	826.4	1618.3	3198.2	5350.8	7951.2	9162.0	9996.2
25°	438.2	463.2	501.6	574.7	688.1	1122.4	2767.6	5552.6	8891.0	10330.6	11114.7
27.5°	390.2	413.2	451.7	518.9	603.5	857.2	2266.0	5725.5	9882.8	11506.8	12148.8
30°	342.1	365.2	403.6	457.4	534.3	693.8	1725.9	5827.4	10845.7	12389.0	12883.0
32.5°	301.7	321.0	357.5	405.5	469.0	588.1	1360.8	5721.7	11581.8	13190.5	13521.1
35°	261.4	284.5	315.2	359.4	415.1	501.6	1132.0	5356.5	12214.1	14015.0	14134.2
37.5°	219.1	246.0	278.7	319.0	363.3	461.3	909.1	4952.9	12890.6	15043.3	14847.2
40°	184.5	209.5	240.2	284.5	324.8	422.8	699.6	4522.4	13621.0	16008.1	15625.6
42.5°	149.9	176.8	213.3	253.7	321.0	369.0	542.0	4076.5	14276.4	16848.0	16329.1
45°	119.2	142.2	180.7	232.6	319.0	317.1	419.0	3636.4	14770.3	17447.6	16853.8
47.5°	94.2	113.4	151.8	226.8	294.1	269.1	336.3	3363.4	15289.3	17987.7	17255.4
50°	75.0	94.2	130.7	236.4	257.5	230.6	282.5	3407.7	15790.9	18262.6	17420.7
52.5°	63.4	82.6	113.4	186.4	198.0	201.8	247.9	3611.4	16438.6	18556.6	17749.4
55°	55.7	73.0	96.1	130.7	153.8	180.7	226.8	3759.4	17305.4	19187.0	18474.0
57.5°	44.2	63.4	86.5	111.5	126.8	157.6	209.5	3770.9	18089.6	19996.2	19436.9
59°	40.4	57.7	80.7	105.7	113.4	142.2	198.0	3672.9	18118.4	20117.3	19878.9
60°	36.5	55.7	76.9	98.0	107.6	134.5	188.4	3559.5	17857.0	19925.1	20061.5
62.5°	30.8	48.0	67.3	78.8	92.3	111.5	163.4	3148.2	16590.4	19054.4	19723.3
65°	26.9	42.3	57.7	65.3	76.9	96.1	144.1	2519.7	15191.2	17874.3	18754.6
67.5°	25.0	38.4	50.0	55.7	67.3	88.4	128.8	1779.7	13378.8	16377.1	17299.6
70°	23.1	36.5	44.2	51.9	59.6	75.0	109.6	1037.9	10305.6	13751.7	14726.1
72.5°	23.1	34.6	38.4	44.2	51.9	67.3	101.9	561.2	7045.9	10490.1	11749.0
75°	23.1	32.7	34.6	38.4	46.1	61.5	90.3	294.1	4555.1	7288.1	8994.8
77.5°	23.1	30.8	34.6	36.5	44.2	53.8	78.8	184.5	3034.8	5104.8	6079.2
80°	25.0	30.8	32.7	36.5	42.3	50.0	65.3	123.0	1783.6	3071.3	3699.8
82.5°	26.9	30.8	34.6	38.4	44.2	48.0	57.7	76.9	822.6	2031.5	2298.7
85°	28.8	32.7	36.5	40.4	46.1	48.0	53.8	55.7	134.5	916.8	1239.7
87.5°	30.8	34.6	38.4	42.3	50.0	50.0	50.0	50.0	46.1	98.0	249.9
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-SA5C-740-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8356.7	8356.7	8356.7	8356.7	8356.7	8356.7	8356.7	8356.7	8356.7	8356.7
2.5°	9429.2	9646.4	9798.2	9836.6	9727.1	9677.1	9538.7	9323.5	9192.8	9187.0
5°	9936.6	10445.9	10799.5	10859.1	10647.7	10290.2	9865.5	9317.7	8996.7	8900.6
7.5°	9850.1	10741.9	11310.8	11393.4	11037.9	10355.6	9533.0	8650.8	8301.0	8153.0
10°	9494.5	10582.4	11395.4	11526.1	11051.3	10090.3	9044.8	8060.7	7626.4	7513.0
12.5°	9190.9	10290.2	11012.9	11193.6	10834.1	9875.1	8752.6	7682.1	7217.0	7111.3
15°	9058.2	9944.3	10386.3	10478.6	10419.0	9740.5	8721.9	7624.5	7092.1	6976.7
17.5°	9190.9	9650.2	9705.9	9800.1	9932.7	9727.1	9017.9	7937.7	7363.1	7220.8
20°	9538.7	9394.6	9164.0	9204.3	9508.0	9782.8	9544.5	8631.6	7932.0	7780.1
22.5°	10130.7	9331.2	8808.4	8773.8	9158.2	9969.3	10317.1	9571.4	8760.3	8610.4
25°	10857.2	9490.7	8677.7	8602.7	9021.7	10242.2	11157.0	10722.7	9836.6	9607.9
27.5°	11649.1	9821.3	8677.7	8604.7	9010.2	10484.3	11875.8	11741.3	10951.4	10701.5
30°	12083.4	10094.2	8802.6	8720.0	9152.4	10624.6	12260.2	12646.6	11789.4	11479.9
32.5°	12471.7	10472.8	9046.7	8891.0	9450.3	10832.2	12604.3	13415.3	12456.3	12248.7
35°	12829.1	10878.3	9383.1	9202.4	9842.4	11116.7	12984.8	14222.6	13384.6	13071.3
37.5°	13223.2	11349.2	9907.8	9754.0	10497.8	11670.2	13436.5	15283.5	14297.5	13903.5
40°	13651.7	11895.1	10770.7	10705.4	11539.5	12296.8	14007.3	16415.5	15339.2	14891.4
42.5°	14088.0	12523.6	11827.8	11935.4	12719.6	13175.1	14593.5	17286.2	16192.6	15698.6
45°	14484.0	13326.9	13202.0	13734.4	14095.7	14032.3	15027.9	17899.3	16936.4	16463.6
47.5°	14983.7	14497.4	14864.5	15685.2	15694.8	14964.5	15356.5	18400.9	17576.4	17103.6
50°	15543.0	15879.3	17011.4	17847.4	17622.5	15881.2	15740.9	18994.8	18237.6	17858.9
52.5°	16190.7	17426.5	18994.8	19923.1	19398.4	16880.7	16380.9	19636.8	19287.0	18923.7
55°	16944.1	18481.7	20972.5	21712.5	21183.9	18122.3	17353.5	20507.4	20472.8	20224.9
57.5°	17795.5	19596.4	22118.0	23119.4	22648.5	19579.1	18712.3	21328.1	21197.4	21059.0
59°	18468.2	20169.1	22623.5	23661.4	23376.9	20599.7	19625.2	21839.3	21364.6	21157.0
60°	18875.7	20557.4	22809.9	23734.4	23669.1	21207.0	20203.7	22089.2	21362.7	21074.4
62.5°	20084.6	21235.8	22738.8	23409.6	23665.2	22371.7	21900.8	22364.0	20966.8	20543.9
65°	20515.1	21011.0	21560.7	21478.0	21697.1	22312.1	22984.8	22062.3	20121.1	19519.5
67.5°	19677.1	18545.1	18739.2	18187.6	18080.0	19836.6	22544.7	20586.2	18466.3	17730.2
70°	16586.6	14207.2	14109.2	14362.9	13667.1	16060.0	20244.1	17743.6	15735.2	14901.0
72.5°	13055.9	10040.4	9213.9	10148.0	10126.9	12252.6	16817.2	12590.8	10630.4	10559.3
75°	10267.2	6990.2	6134.9	6286.8	6578.9	8869.9	13394.2	7995.4	6546.2	5965.8
77.5°	6892.2	4952.9	4620.4	4434.0	4749.2	5694.8	8474.0	4336.0	3671.0	3476.8
80°	3972.7	3597.9	4086.1	3709.4	3878.5	3588.3	4214.9	1989.2	1651.0	1787.4
82.5°	2585.0	2048.8	2183.4	1622.1	2218.0	2237.2	1353.1	588.1	497.8	528.5
85°	1616.4	961.0	540.1	384.4	764.9	1406.9	422.8	36.5	42.3	36.5
87.5°	419.0	159.5	67.3	99.9	123.0	109.6	98.0	5.8	1.9	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)