

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: P452785

Luminaire Tested: **GALN-SA3D-730-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452785
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-SA3D-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA 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: 15104 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

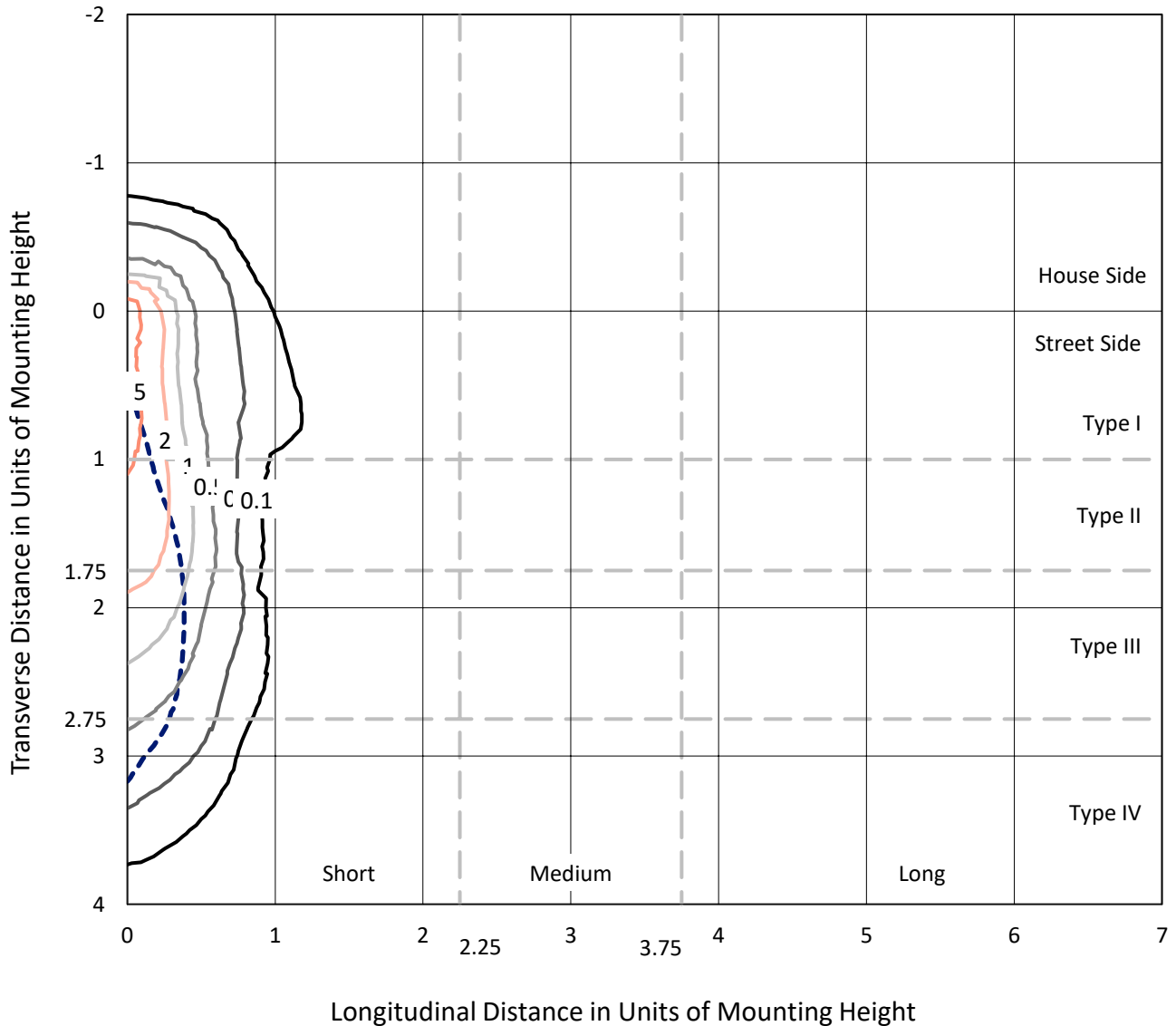
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

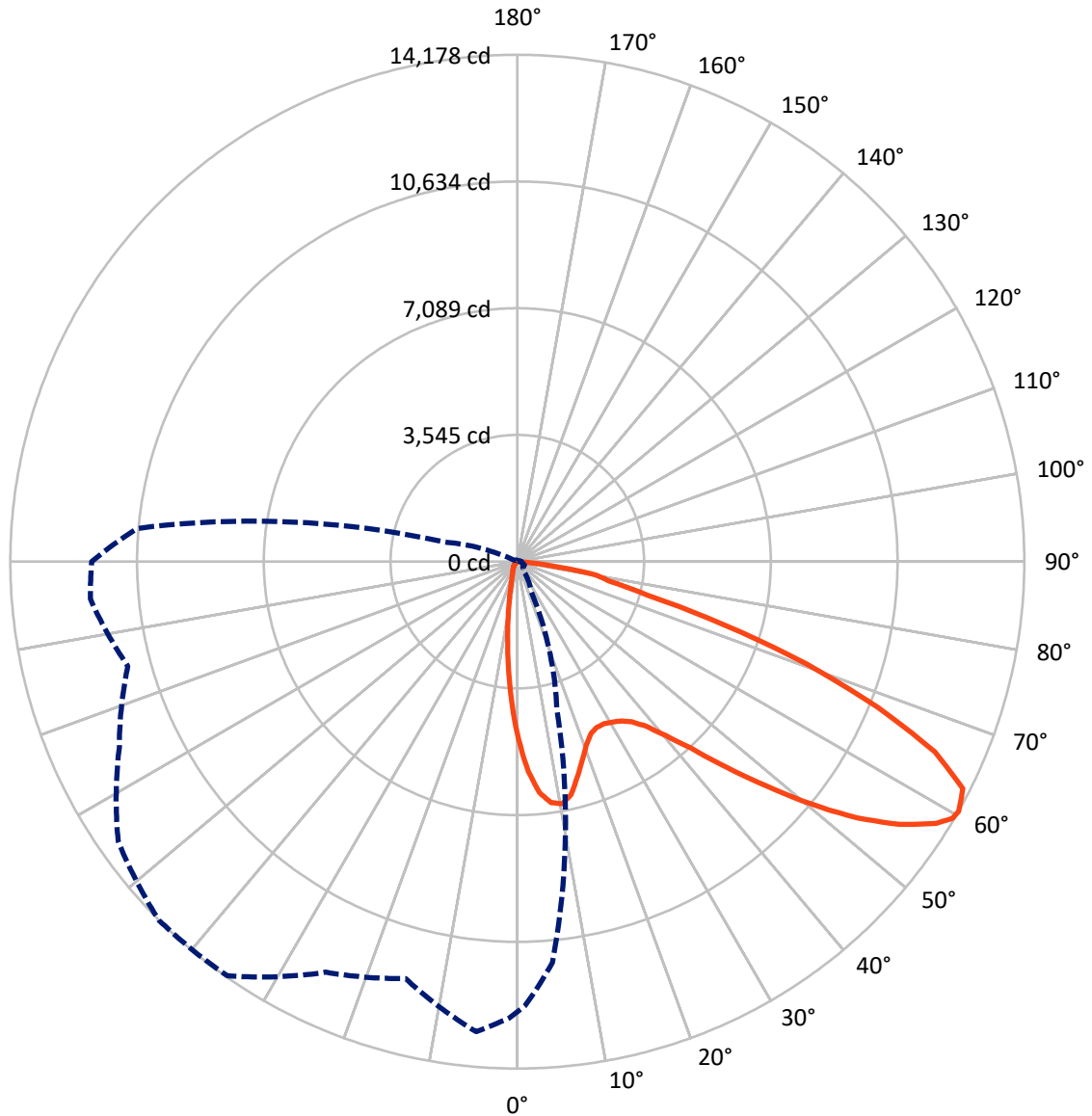
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	1862.9	0.0	1862.9
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	13241.1	0.0	13241.1
	% Fixture	87.7	0.0	87.7
Total	Lumens	15104.0	0.0	15104.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.3	2.5
10°-20°	737.4	4.9
20°-30°	1081.2	7.2
30°-40°	1608.0	10.6
40°-50°	2340.1	15.5
50°-60°	3374.6	22.3
60°-70°	3711.7	24.6
70°-80°	1662.5	11.0
80°-90°	217.2	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°	15104.0	100.0
0°-180°	15104.0	100.0



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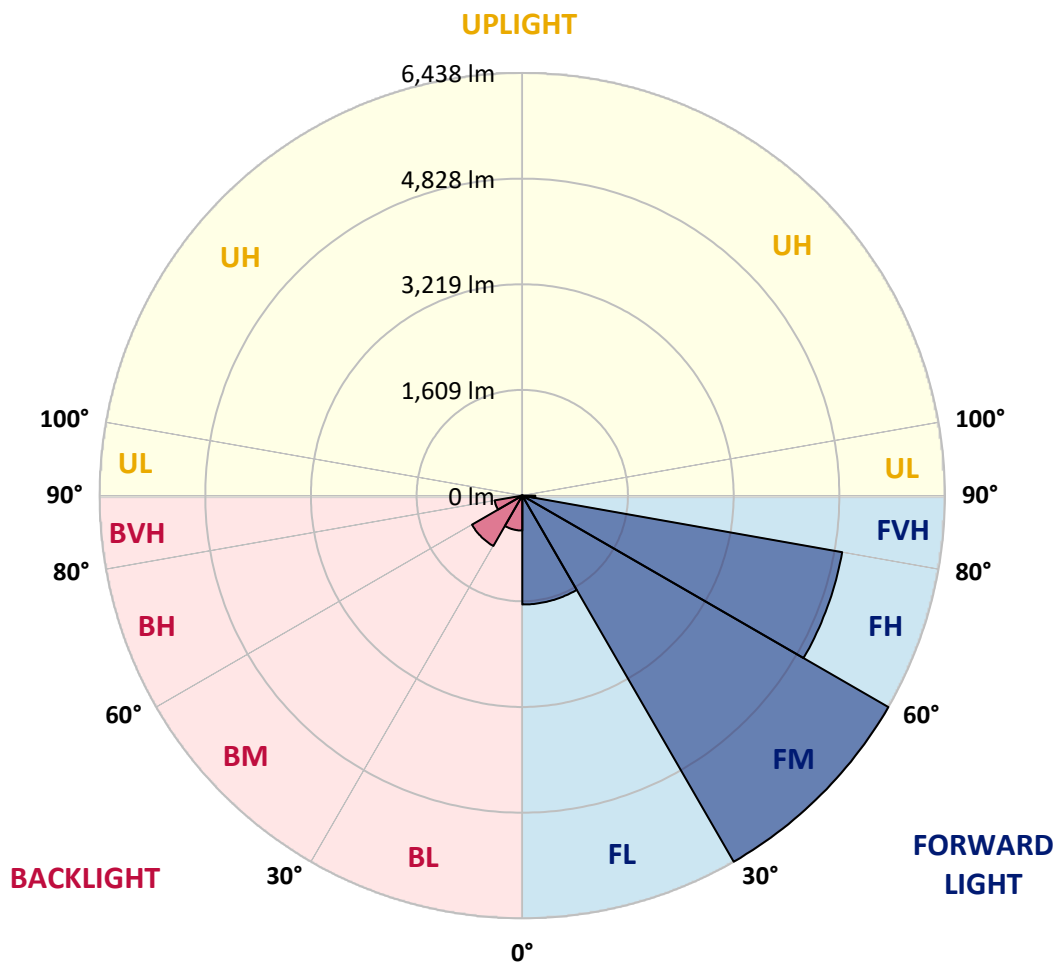
CATALOG NUMBER: GALN-SA3D-730-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1657.6	11.0			
FM (30°-60°)	6437.8	42.6			
FH (60°-80°)	4947.0	32.8			G2/5000
FVH (80°-90°)	198.7	1.3			G2/225
BL (0°-30°)	532.3	3.5	B2/1000		
BM (30°-60°)	884.8	5.9	B1/1000		
BH (60°-80°)	427.2	2.8	B1/500		G1/500
BVH (80°-90°)	18.6	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4992.1	4992.1	4992.1	4992.1	4992.1	4992.1	4992.1	4992.1	4992.1	4992.1	4992.1
2.5°	5488.1	5464.0	5408.9	5241.2	5095.4	4904.8	4711.9	4560.4	4467.4	4296.3	4218.2
5°	5317.0	5328.5	5168.9	4824.5	4441.0	4179.2	3893.3	3666.0	3415.7	3257.3	3090.8
7.5°	4870.4	4847.4	4674.1	4194.1	3728.0	3349.1	2987.4	2693.5	2508.7	2360.6	2236.6
10°	4488.1	4470.8	4249.2	3631.5	3131.0	2847.4	2602.8	2345.6	2147.0	1930.0	1756.6
12.5°	4248.1	4209.1	3954.2	3308.9	2901.3	2637.3	2370.9	2103.4	1829.0	1609.7	1399.6
15°	4167.7	4111.5	3827.9	3197.6	2754.4	2419.1	2085.0	1777.3	1461.6	1219.3	1060.9
17.5°	4313.5	4220.5	3918.6	3178.0	2578.7	2134.4	1723.3	1322.7	994.3	809.4	711.8
20°	4647.6	4540.9	4148.2	3158.5	2383.5	1815.2	1310.0	934.6	687.7	586.7	532.7
22.5°	5143.6	4996.7	4488.1	3189.5	2203.3	1504.1	946.1	660.2	546.5	483.4	445.5
25°	5739.5	5616.7	4918.6	3299.7	2060.9	1259.5	731.4	539.6	460.4	421.4	392.7
27.5°	6392.8	6196.5	5475.5	3431.8	1931.2	1070.1	641.8	482.2	409.9	374.3	359.4
30°	6857.8	6705.1	5941.6	3523.6	1769.3	927.7	586.7	475.3	411.0	368.6	341.0
32.5°	7317.1	7121.9	6332.0	3566.1	1651.0	829.0	507.5	414.5	360.5	338.7	311.1
35°	7808.5	7604.1	6721.2	3543.1	1562.6	763.5	460.4	369.7	308.8	272.1	244.6
37.5°	8305.6	8089.8	7108.1	3460.5	1507.5	737.1	423.7	351.3	291.6	253.7	223.9
40°	8895.7	8607.6	7470.9	3392.7	1450.1	723.3	399.6	339.8	279.0	238.8	209.0
42.5°	9378.0	9103.6	7814.2	3357.1	1411.1	691.2	399.6	330.7	271.0	226.2	195.2
45°	9834.9	9550.2	8185.0	3385.8	1395.0	651.0	404.1	329.5	265.2	217.0	186.0
47.5°	10217.2	9970.4	8566.2	3493.8	1374.3	607.4	380.0	345.6	261.8	209.0	176.8
50°	10668.5	10429.7	9070.3	3711.9	1337.6	563.7	350.2	372.0	260.6	202.1	168.8
52.5°	11304.5	11046.2	9766.0	3959.9	1279.0	497.1	322.6	368.6	256.0	190.6	160.7
55°	12081.8	11872.9	10572.0	4257.3	1198.7	422.5	279.0	327.2	242.3	171.1	147.0
57.5°	12580.1	12402.1	11175.9	4385.9	1075.8	345.6	245.7	274.4	221.6	152.7	130.9
59°	12638.7	12477.9	11302.2	4343.4	995.4	315.7	229.6	235.4	215.8	142.4	121.7
60°	12589.3	12422.8	11251.7	4260.7	920.8	295.1	215.8	209.0	217.0	136.6	114.8
62.5°	12272.4	11987.7	10761.5	3841.7	804.8	271.0	191.7	171.1	191.7	122.9	102.2
65°	11660.5	11233.3	9791.3	3251.5	758.9	257.2	163.0	143.5	145.8	107.9	88.4
67.5°	10591.5	10053.1	8499.6	2641.9	739.4	258.3	137.8	128.6	112.5	91.9	78.1
70°	8901.5	8364.2	6819.9	2173.4	730.2	258.3	117.1	110.2	94.1	76.9	67.7
72.5°	6307.8	5729.2	4600.6	1707.3	657.9	257.2	99.9	99.9	76.9	64.3	55.1
75°	3563.8	3568.4	2892.2	1207.8	546.5	212.4	80.4	79.2	56.3	49.4	41.3
77.5°	2077.0	2040.2	1949.5	519.0	253.7	96.4	56.3	48.2	39.0	35.6	29.9
80°	1067.8	878.3	855.4	188.3	90.7	60.9	39.0	27.6	25.3	23.0	20.7
82.5°	315.7	316.9	282.4	75.8	50.5	40.2	19.5	14.9	13.8	12.6	12.6
85°	21.8	13.8	16.1	23.0	31.0	16.1	1.1	3.4	3.4	4.6	5.7
87.5°	2.3	1.1	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°	4992.1	4992.1	4992.1	4992.1	4992.1	4992.1	4992.1	4992.1	4992.1	4992.1	4992.1
2.5°	4132.1	4182.7	4088.5	4090.8	4012.7	4038.0	3946.1	3976.0	3922.0	3963.4	4085.1
5°	3109.1	3120.6	3044.9	3020.7	3032.2	3079.3	3097.7	3013.9	3049.4	2979.4	2974.8
7.5°	2190.6	2204.4	2160.8	2155.0	2237.7	2218.2	2253.8	2167.7	2086.2	2121.8	2056.3
10°	1701.5	1644.1	1554.6	1529.3	1513.2	1523.6	1523.6	1445.5	1434.0	1403.0	1450.1
12.5°	1343.3	1273.3	1188.3	1073.5	1044.8	1042.5	1000.0	931.1	909.3	882.9	922.0
15°	975.9	947.2	876.0	811.7	746.3	733.7	664.8	608.5	533.9	523.5	520.1
17.5°	686.6	644.1	643.0	606.2	568.3	543.1	478.8	414.5	385.8	382.3	382.3
20°	514.4	499.4	475.3	470.7	459.3	430.6	373.1	338.7	324.9	326.1	330.7
22.5°	432.8	422.5	400.7	390.4	385.8	360.5	318.0	295.1	288.2	288.2	289.3
25°	386.9	377.7	353.6	337.6	331.8	313.4	280.1	262.9	257.2	257.2	257.2
27.5°	352.5	341.0	315.7	302.0	291.6	271.0	250.3	233.1	227.3	227.3	228.5
30°	328.4	315.7	292.8	274.4	258.3	240.0	222.7	207.8	200.9	199.8	200.9
32.5°	296.2	284.7	261.8	250.3	231.9	210.1	196.3	182.6	175.7	176.8	175.7
35°	230.8	227.3	211.3	214.7	204.4	186.0	173.4	158.4	150.4	149.3	151.6
37.5°	210.1	196.3	178.0	179.1	175.7	168.8	148.1	132.0	126.3	126.3	127.4
40°	194.0	180.3	159.6	149.3	150.4	150.4	128.6	111.4	105.6	104.5	106.8
42.5°	180.3	166.5	143.5	126.3	121.7	127.4	109.1	91.9	86.1	83.8	86.1
45°	171.1	156.1	129.7	110.2	96.4	103.3	89.6	75.8	68.9	68.9	67.7
47.5°	161.9	148.1	119.4	95.3	80.4	76.9	73.5	60.9	54.0	52.8	54.0
50°	153.8	140.1	107.9	82.7	67.7	59.7	59.7	48.2	43.6	41.3	42.5
52.5°	145.8	130.9	97.6	73.5	58.6	48.2	42.5	39.0	35.6	34.4	35.6
55°	134.3	119.4	87.3	63.1	50.5	40.2	33.3	32.1	29.9	27.6	29.9
57.5°	120.6	106.8	76.9	54.0	40.2	31.0	27.6	26.4	24.1	23.0	23.0
59°	112.5	99.9	71.2	47.1	35.6	27.6	25.3	24.1	21.8	19.5	20.7
60°	107.9	97.6	67.7	43.6	32.1	25.3	23.0	21.8	19.5	18.4	19.5
62.5°	95.3	87.3	59.7	35.6	25.3	18.4	16.1	17.2	16.1	14.9	16.1
65°	83.8	76.9	50.5	27.6	19.5	12.6	11.5	14.9	13.8	12.6	13.8
67.5°	74.6	66.6	42.5	20.7	13.8	6.9	8.0	12.6	12.6	11.5	12.6
70°	64.3	57.4	34.4	14.9	6.9	3.4	5.7	9.2	11.5	10.3	11.5
72.5°	52.8	44.8	26.4	10.3	3.4	0.0	3.4	8.0	11.5	10.3	11.5
75°	41.3	33.3	19.5	5.7	0.0	0.0	1.1	6.9	11.5	10.3	11.5
77.5°	29.9	24.1	11.5	1.1	0.0	0.0	1.1	6.9	11.5	10.3	11.5
80°	19.5	17.2	4.6	0.0	0.0	0.0	1.1	6.9	11.5	11.5	12.6
82.5°	12.6	9.2	0.0	0.0	0.0	0.0	2.3	9.2	12.6	13.8	13.8
85°	5.7	0.0	0.0	0.0	0.0	0.0	4.6	11.5	14.9	14.9	14.9
87.5°	0.0	0.0	0.0	0.0	0.0	2.3	8.0	13.8	17.2	17.2	17.2
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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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4992.1	4992.1	4992.1	4992.1	4992.1	4992.1	4992.1	4992.1	4992.1	4992.1	4992.1
2.5°	4105.7	4178.1	4280.2	4437.5	4565.0	4765.9	4919.8	5129.9	5342.3	5406.6	5506.5
5°	3021.9	3114.9	3346.8	3558.1	3691.3	4116.1	4384.7	4808.4	5188.4	5371.0	5569.6
7.5°	2098.8	2209.0	2385.8	2680.9	2961.0	3306.6	3740.6	4225.1	4782.0	5042.6	5322.8
10°	1473.1	1610.8	1860.0	2102.2	2454.7	2783.1	3211.3	3746.4	4360.6	4668.3	5019.6
12.5°	930.0	1052.8	1382.4	1654.5	2094.2	2475.4	2870.3	3354.8	4066.7	4382.4	4751.0
15°	531.6	634.9	788.8	1137.8	1625.8	2129.8	2622.3	3184.9	3916.3	4305.5	4703.9
17.5°	396.1	423.7	492.5	690.0	1134.4	1723.3	2393.9	3133.3	4018.5	4475.4	4930.1
20°	333.0	351.3	383.5	461.5	723.3	1327.2	2171.1	3142.4	4349.1	4923.2	5354.9
22.5°	298.5	310.0	336.4	386.9	493.7	966.7	1910.5	3196.4	4749.8	5473.2	5971.4
25°	261.8	276.7	299.7	343.3	411.0	670.5	1653.3	3317.0	5311.3	6171.2	6639.7
27.5°	233.1	246.8	269.8	310.0	360.5	512.1	1353.7	3420.3	5903.7	6873.9	7257.4
30°	204.4	218.1	241.1	273.3	319.2	414.5	1031.0	3481.1	6478.9	7400.9	7695.9
32.5°	180.3	191.7	213.6	242.3	280.1	351.3	812.9	3418.0	6918.7	7879.6	8077.1
35°	156.1	169.9	188.3	214.7	248.0	299.7	676.3	3199.9	7296.4	8372.2	8443.4
37.5°	130.9	147.0	166.5	190.6	217.0	275.6	543.1	2958.7	7700.5	8986.4	8869.3
40°	110.2	125.1	143.5	169.9	194.0	252.6	417.9	2701.6	8136.8	9562.8	9334.3
42.5°	89.6	105.6	127.4	151.6	191.7	220.4	323.8	2435.2	8528.3	10064.5	9754.5
45°	71.2	85.0	107.9	138.9	190.6	189.4	250.3	2172.3	8823.4	10422.8	10068.0
47.5°	56.3	67.7	90.7	135.5	175.7	160.7	200.9	2009.2	9133.4	10745.4	10307.9
50°	44.8	56.3	78.1	141.2	153.8	137.8	168.8	2035.6	9433.1	10909.6	10406.7
52.5°	37.9	49.4	67.7	111.4	118.3	120.6	148.1	2157.3	9820.0	11085.2	10603.0
55°	33.3	43.6	57.4	78.1	91.9	107.9	135.5	2245.8	10337.8	11461.8	11035.9
57.5°	26.4	37.9	51.7	66.6	75.8	94.1	125.1	2252.6	10806.2	11945.2	11611.1
59°	24.1	34.4	48.2	63.1	67.7	85.0	118.3	2194.1	10823.5	12017.5	11875.2
60°	21.8	33.3	45.9	58.6	64.3	80.4	112.5	2126.3	10667.3	11902.7	11984.2
62.5°	18.4	28.7	40.2	47.1	55.1	66.6	97.6	1880.6	9910.7	11382.6	11782.2
65°	16.1	25.3	34.4	39.0	45.9	57.4	86.1	1505.2	9074.9	10677.6	11203.5
67.5°	14.9	23.0	29.9	33.3	40.2	52.8	76.9	1063.2	7992.2	9783.3	10334.4
70°	13.8	21.8	26.4	31.0	35.6	44.8	65.4	620.0	6156.3	8214.9	8797.0
72.5°	13.8	20.7	23.0	26.4	31.0	40.2	60.9	335.3	4209.1	6266.5	7018.5
75°	13.8	19.5	20.7	23.0	27.6	36.7	54.0	175.7	2721.1	4353.7	5373.3
77.5°	13.8	18.4	20.7	21.8	26.4	32.1	47.1	110.2	1812.9	3049.4	3631.5
80°	14.9	18.4	19.5	21.8	25.3	29.9	39.0	73.5	1065.5	1834.7	2210.2
82.5°	16.1	18.4	20.7	23.0	26.4	28.7	34.4	45.9	491.4	1213.6	1373.2
85°	17.2	19.5	21.8	24.1	27.6	28.7	32.1	33.3	80.4	547.7	740.5
87.5°	18.4	20.7	23.0	25.3	29.9	29.9	29.9	29.9	27.6	58.6	149.3
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-SA3D-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4992.1	4992.1	4992.1	4992.1	4992.1	4992.1	4992.1	4992.1	4992.1	4992.1
2.5°	5632.7	5762.5	5853.2	5876.2	5810.7	5780.9	5698.2	5569.6	5491.5	5488.1
5°	5935.9	6240.1	6451.4	6487.0	6360.7	6147.1	5893.4	5566.2	5374.4	5317.0
7.5°	5884.2	6416.9	6756.8	6806.1	6593.7	6186.1	5694.7	5167.8	4958.8	4870.4
10°	5671.8	6321.6	6807.3	6885.4	6601.8	6027.7	5403.1	4815.3	4555.8	4488.1
12.5°	5490.4	6147.1	6578.8	6686.7	6472.0	5899.1	5228.6	4589.1	4311.2	4248.1
15°	5411.2	5940.4	6204.5	6259.6	6224.0	5818.7	5210.2	4554.6	4236.6	4167.7
17.5°	5490.4	5764.8	5798.1	5854.3	5933.6	5810.7	5387.0	4741.8	4398.5	4313.5
20°	5698.2	5612.1	5474.3	5498.4	5679.8	5844.0	5701.6	5156.3	4738.4	4647.6
22.5°	6051.8	5574.2	5261.9	5241.2	5470.9	5955.4	6163.2	5717.7	5233.2	5143.6
25°	6485.8	5669.5	5183.8	5139.0	5389.3	6118.4	6664.9	6405.4	5876.2	5739.5
27.5°	6958.8	5867.0	5183.8	5140.2	5382.5	6263.1	7094.3	7014.0	6542.1	6392.8
30°	7218.3	6030.0	5258.5	5209.1	5467.4	6346.9	7323.9	7554.7	7042.7	6857.8
32.5°	7450.2	6256.2	5404.3	5311.3	5645.4	6470.9	7529.5	8014.0	7441.1	7317.1
35°	7663.8	6498.4	5605.2	5497.3	5879.6	6640.8	7756.8	8496.2	7995.6	7808.5
37.5°	7899.2	6779.7	5918.6	5826.8	6271.1	6971.5	8026.6	9130.0	8541.0	8305.6
40°	8155.2	7105.8	6434.1	6395.1	6893.4	7345.8	8367.6	9806.2	9163.3	8895.7
42.5°	8415.8	7481.2	7065.6	7129.9	7598.4	7870.5	8717.8	10326.3	9673.0	9378.0
45°	8652.3	7961.2	7886.5	8204.6	8420.4	8382.5	8977.3	10692.6	10117.4	9834.9
47.5°	8950.9	8660.4	8879.7	9369.9	9375.7	8939.4	9173.6	10992.2	10499.7	10217.2
50°	9285.0	9485.9	10162.1	10661.6	10527.2	9487.0	9403.2	11347.0	10894.6	10668.5
52.5°	9671.9	10410.1	11347.0	11901.6	11588.1	10084.1	9785.5	11730.5	11521.5	11304.5
55°	10122.0	11040.5	12528.4	12970.5	12654.7	10825.8	10366.5	12250.6	12229.9	12081.8
57.5°	10630.6	11706.4	13212.7	13810.9	13529.6	11696.0	11178.2	12740.8	12662.8	12580.1
59°	11032.4	12048.5	13514.7	14134.7	13964.8	12305.7	11723.6	13046.2	12762.7	12638.7
60°	11275.8	12280.4	13626.1	14178.3	14139.3	12668.5	12069.2	13195.5	12761.5	12589.3
62.5°	11998.0	12685.7	13583.6	13984.3	14137.0	13364.3	13083.0	13359.7	12525.0	12272.4
65°	12255.2	12551.4	12879.8	12830.4	12961.3	13328.7	13730.5	13179.4	12019.8	11660.5
67.5°	11754.6	11078.3	11194.3	10864.8	10800.5	11849.9	13467.6	12297.7	11031.3	10591.5
70°	9908.4	8487.0	8428.5	8580.0	8164.4	9593.8	12093.3	10599.6	9399.8	8901.5
72.5°	7799.3	5997.9	5504.2	6062.1	6049.5	7319.4	10046.2	7521.4	6350.3	6307.8
75°	6133.3	4175.8	3664.8	3755.5	3930.1	5298.6	8001.3	4776.2	3910.5	3563.8
77.5°	4117.2	2958.7	2760.1	2648.7	2837.0	3401.9	5062.1	2590.2	2192.9	2077.0
80°	2373.2	2149.3	2440.9	2215.9	2316.9	2143.6	2517.9	1188.3	986.2	1067.8
82.5°	1544.2	1223.9	1304.3	969.0	1324.9	1336.4	808.3	351.3	297.4	315.7
85°	965.6	574.1	322.6	229.6	457.0	840.4	252.6	21.8	25.3	21.8
87.5°	250.3	95.3	40.2	59.7	73.5	65.4	58.6	3.4	1.1	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)