

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: P452814

Luminaire Tested: **GALN-SA3D-740-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452814  
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-740-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 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: 16585 lumens  
Efficiency: N/A  
Efficacy: 90.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

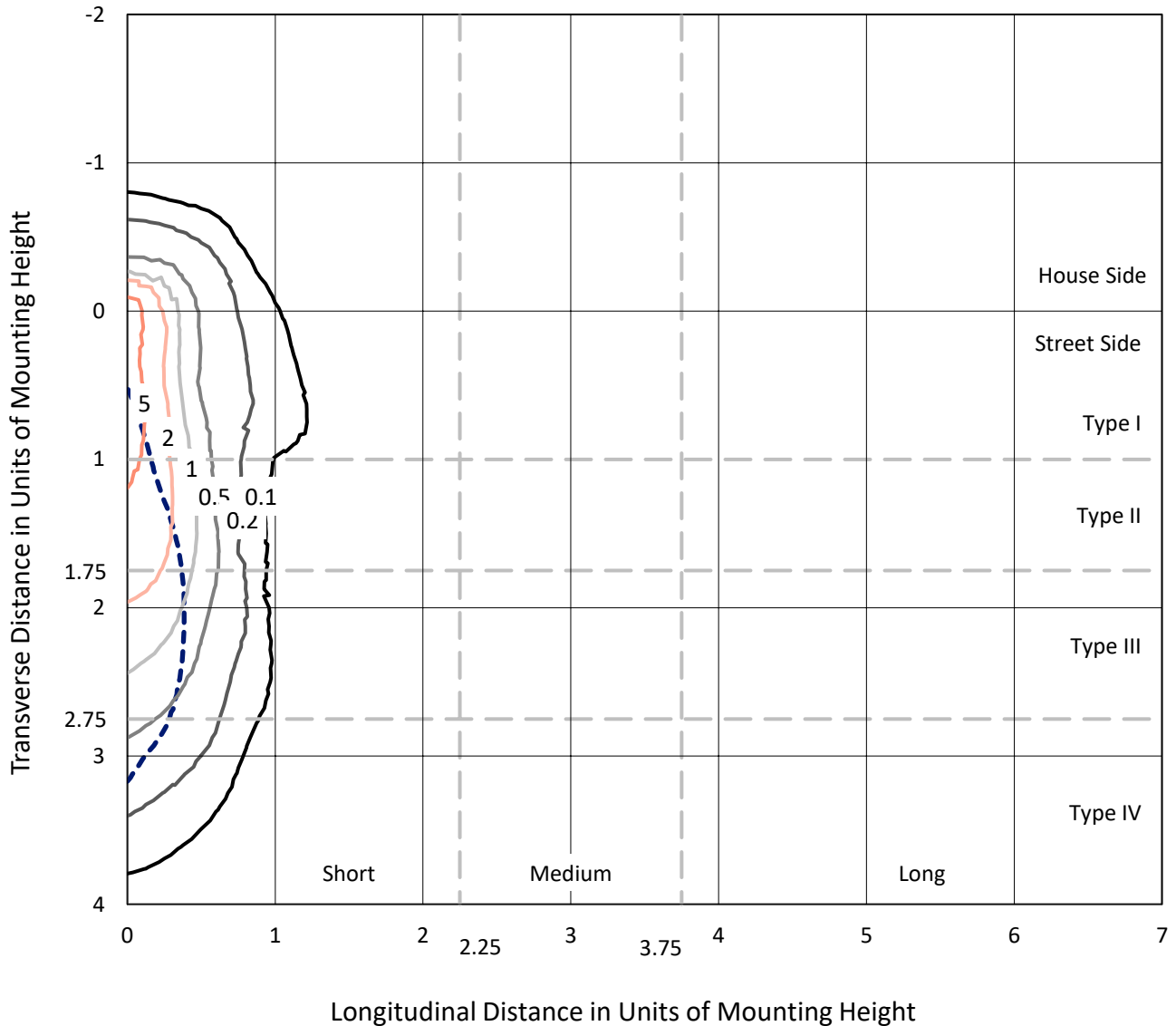
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

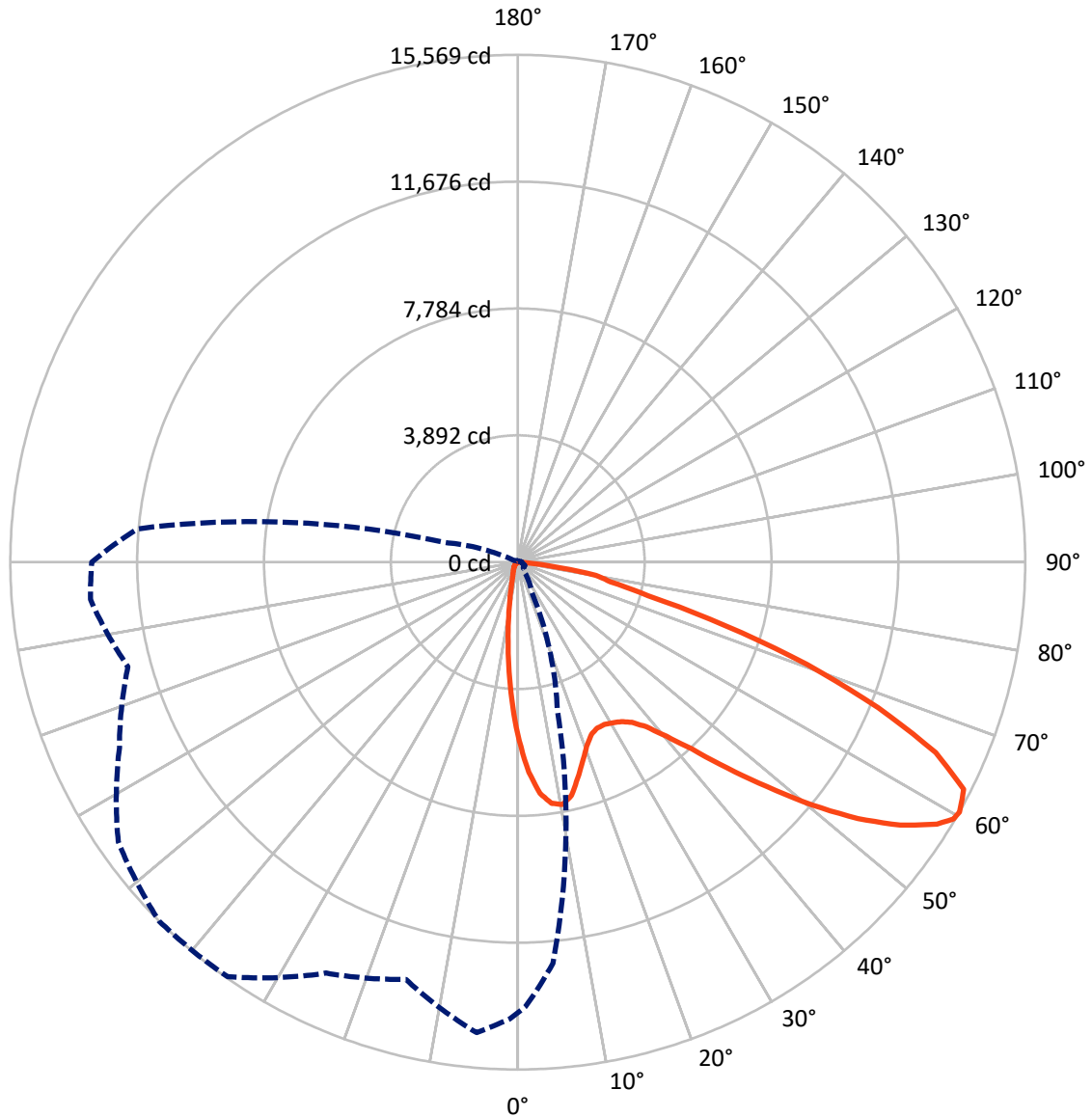
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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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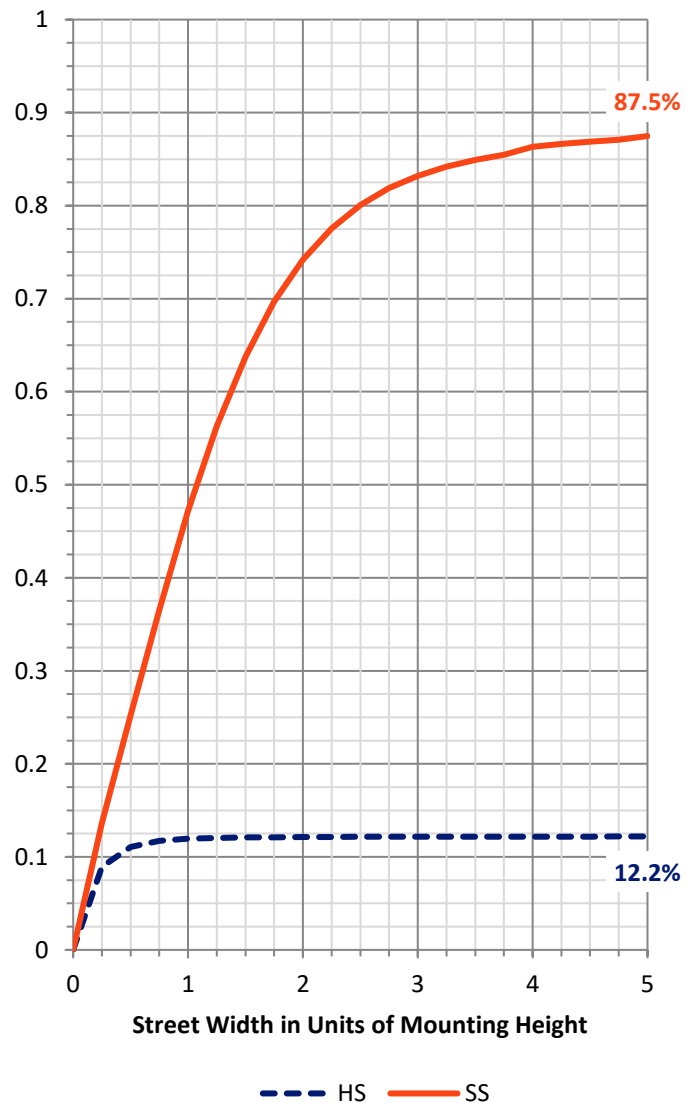
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2045.6	0.0	2045.6
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	14539.4	0.0	14539.4
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	16585.0	0.0	16585.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	407.7	2.5
10°-20°	809.7	4.9
20°-30°	1187.2	7.2
30°-40°	1765.6	10.6
40°-50°	2569.5	15.5
50°-60°	3705.5	22.3
60°-70°	4075.6	24.6
70°-80°	1825.6	11.0
80°-90°	238.5	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°	16585.0	100.0
0°-180°	16585.0	100.0



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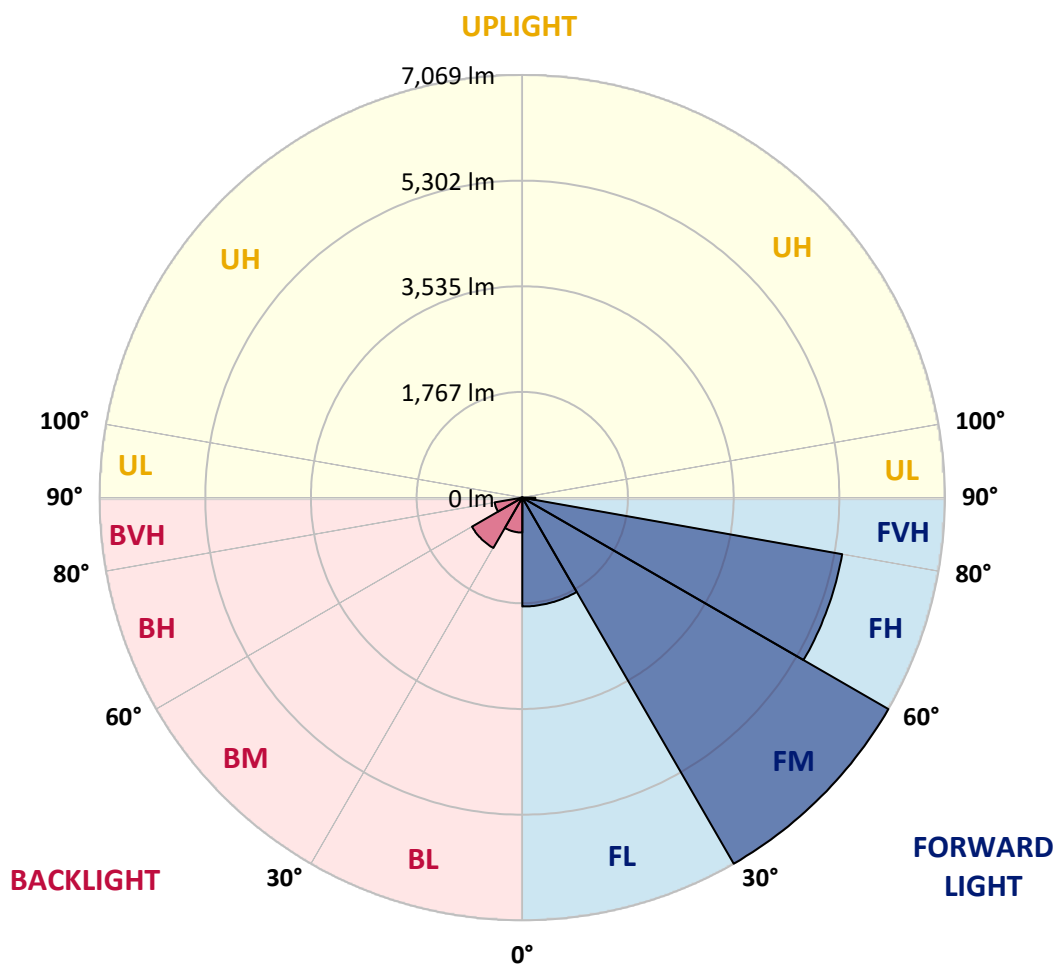
CATALOG NUMBER: GALN-SA3D-740-U-SLR-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1820.1	11.0			
FM	(30°-60°)	7069.0	42.6			
FH	(60°-80°)	5432.1	32.8			G3/7500
FVH	(80°-90°)	218.1	1.3			G2/225
BL	(0°-30°)	584.5	3.5	B2/1000		
BM	(30°-60°)	971.6	5.9	B1/1000		
BH	(60°-80°)	469.1	2.8	B1/500		G1/500
BVH	(80°-90°)	20.4	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5481.6	5481.6	5481.6	5481.6	5481.6	5481.6	5481.6	5481.6	5481.6	5481.6	5481.6
2.5°	6026.2	5999.7	5939.2	5755.2	5595.0	5385.8	5174.0	5007.6	4905.4	4717.6	4631.9
5°	5838.4	5851.0	5675.7	5297.5	4876.4	4589.0	4275.1	4025.5	3750.6	3576.6	3393.8
7.5°	5347.9	5322.7	5132.4	4605.4	4093.5	3677.5	3280.4	2957.6	2754.7	2592.0	2455.9
10°	4928.1	4909.2	4665.9	3987.6	3438.0	3126.6	2858.0	2575.6	2357.5	2119.3	1928.9
12.5°	4664.6	4621.8	4341.9	3633.4	3185.8	2895.9	2603.4	2309.6	2008.3	1767.5	1536.8
15°	4576.4	4514.6	4203.2	3511.1	3024.5	2656.3	2289.5	1951.6	1604.9	1338.9	1164.9
17.5°	4736.5	4634.4	4302.8	3489.7	2831.6	2343.7	1892.3	1452.3	1091.8	888.8	781.6
20°	5103.4	4986.1	4555.0	3468.2	2617.2	1993.2	1438.5	1026.2	755.2	644.2	585.0
22.5°	5648.0	5486.6	4928.1	3502.3	2419.3	1651.5	1038.8	724.9	600.1	530.8	489.2
25°	6302.3	6167.4	5400.9	3623.3	2263.0	1383.0	803.1	592.5	505.5	462.7	431.2
27.5°	7019.6	6804.1	6012.3	3768.3	2120.5	1175.0	704.7	529.5	450.1	411.0	394.6
30°	7530.2	7362.6	6524.2	3869.1	1942.8	1018.7	644.2	521.9	451.3	404.7	374.4
32.5°	8034.5	7820.2	6952.8	3915.8	1812.9	910.2	557.2	455.1	395.9	371.9	341.7
35°	8574.1	8349.7	7380.2	3890.6	1715.8	838.4	505.5	405.9	339.1	298.8	268.5
37.5°	9120.0	8883.0	7805.1	3799.8	1655.3	809.4	465.2	385.8	320.2	278.6	245.8
40°	9768.0	9451.6	8203.5	3725.4	1592.3	794.2	438.7	373.2	306.4	262.2	229.4
42.5°	10297.5	9996.2	8580.4	3686.3	1549.4	758.9	438.7	363.1	297.5	248.4	214.3
45°	10799.3	10486.6	8987.6	3717.8	1531.8	714.8	443.8	361.8	291.2	238.3	204.2
47.5°	11219.1	10948.0	9406.2	3836.3	1509.1	666.9	417.3	379.5	287.4	229.4	194.1
50°	11714.5	11452.3	9959.6	4075.9	1468.7	619.0	384.5	408.5	286.2	221.9	185.3
52.5°	12413.0	12129.3	10723.6	4348.2	1404.4	545.9	354.3	404.7	281.1	209.3	176.5
55°	13266.5	13037.0	11608.6	4674.7	1316.2	463.9	306.4	359.3	266.0	187.8	161.4
57.5°	13813.6	13618.2	12271.8	4815.9	1181.3	379.5	269.8	301.3	243.3	167.7	143.7
59°	13877.9	13701.4	12410.5	4769.3	1093.0	346.7	252.1	258.4	237.0	156.3	133.6
60°	13823.7	13640.9	12355.0	4678.5	1011.1	324.0	237.0	229.4	238.3	150.0	126.1
62.5°	13475.8	13163.1	11816.7	4218.3	883.8	297.5	210.5	187.8	210.5	134.9	112.2
65°	12803.8	12334.8	10751.4	3570.3	833.3	282.4	179.0	157.6	160.1	118.5	97.1
67.5°	11630.1	11038.8	9333.1	2900.9	811.9	283.7	151.3	141.2	123.5	100.9	85.7
70°	9774.3	9184.3	7488.6	2386.5	801.8	283.7	128.6	121.0	103.4	84.5	74.4
72.5°	6926.4	6291.0	5051.7	1874.7	722.4	282.4	109.7	109.7	84.5	70.6	60.5
75°	3913.3	3918.3	3175.7	1326.3	600.1	233.2	88.2	87.0	61.8	54.2	45.4
77.5°	2280.6	2240.3	2140.7	569.8	278.6	105.9	61.8	52.9	42.9	39.1	32.8
80°	1172.5	964.4	939.2	206.8	99.6	66.8	42.9	30.3	27.7	25.2	22.7
82.5°	346.7	348.0	310.1	83.2	55.5	44.1	21.4	16.4	15.1	13.9	13.9
85°	24.0	15.1	17.6	25.2	34.0	17.6	1.3	3.8	3.8	5.0	6.3
87.5°	2.5	1.3	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°	5481.6	5481.6	5481.6	5481.6	5481.6	5481.6	5481.6	5481.6	5481.6	5481.6	5481.6
2.5°	4537.3	4592.8	4489.4	4491.9	4406.2	4433.9	4333.1	4365.8	4306.6	4352.0	4485.6
5°	3414.0	3426.6	3343.4	3316.9	3329.5	3381.2	3401.4	3309.4	3348.5	3271.5	3266.5
7.5°	2405.4	2420.6	2372.7	2366.4	2457.1	2435.7	2474.8	2380.2	2290.7	2329.8	2257.9
10°	1868.4	1805.3	1707.0	1679.3	1661.6	1673.0	1673.0	1587.2	1574.6	1540.6	1592.3
12.5°	1475.0	1398.1	1304.8	1178.8	1147.2	1144.7	1098.1	1022.4	998.5	969.5	1012.4
15°	1071.6	1040.1	961.9	891.3	819.5	805.6	730.0	668.2	586.2	574.9	571.1
17.5°	753.9	707.3	706.0	665.7	624.1	596.3	525.7	455.1	423.6	419.8	419.8
20°	564.8	548.4	521.9	516.9	504.3	472.8	409.7	371.9	356.8	358.0	363.1
22.5°	475.3	463.9	440.0	428.6	423.6	395.9	349.2	324.0	316.4	316.4	317.7
25°	424.9	414.8	388.3	370.6	364.3	344.2	307.6	288.7	282.4	282.4	282.4
27.5°	387.0	374.4	346.7	331.6	320.2	297.5	274.8	255.9	249.6	249.6	250.9
30°	360.6	346.7	321.5	301.3	283.7	263.5	244.6	228.2	220.6	219.4	220.6
32.5°	325.3	312.7	287.4	274.8	254.7	230.7	215.6	200.5	192.9	194.1	192.9
35°	253.4	249.6	232.0	235.8	224.4	204.2	190.4	174.0	165.2	163.9	166.4
37.5°	230.7	215.6	195.4	196.7	192.9	185.3	162.6	145.0	138.7	138.7	139.9
40°	213.1	197.9	175.2	163.9	165.2	165.2	141.2	122.3	116.0	114.7	117.2
42.5°	197.9	182.8	157.6	138.7	133.6	139.9	119.8	100.9	94.6	92.0	94.6
45°	187.8	171.5	142.5	121.0	105.9	113.5	98.3	83.2	75.6	75.6	74.4
47.5°	177.8	162.6	131.1	104.6	88.2	84.5	80.7	66.8	59.3	58.0	59.3
50°	168.9	153.8	118.5	90.8	74.4	65.6	65.6	52.9	47.9	45.4	46.6
52.5°	160.1	143.7	107.2	80.7	64.3	52.9	46.6	42.9	39.1	37.8	39.1
55°	147.5	131.1	95.8	69.3	55.5	44.1	36.6	35.3	32.8	30.3	32.8
57.5°	132.4	117.2	84.5	59.3	44.1	34.0	30.3	29.0	26.5	25.2	25.2
59°	123.5	109.7	78.2	51.7	39.1	30.3	27.7	26.5	24.0	21.4	22.7
60°	118.5	107.2	74.4	47.9	35.3	27.7	25.2	24.0	21.4	20.2	21.4
62.5°	104.6	95.8	65.6	39.1	27.7	20.2	17.6	18.9	17.6	16.4	17.6
65°	92.0	84.5	55.5	30.3	21.4	13.9	12.6	16.4	15.1	13.9	15.1
67.5°	81.9	73.1	46.6	22.7	15.1	7.6	8.8	13.9	13.9	12.6	13.9
70°	70.6	63.0	37.8	16.4	7.6	3.8	6.3	10.1	12.6	11.3	12.6
72.5°	58.0	49.2	29.0	11.3	3.8	0.0	3.8	8.8	12.6	11.3	12.6
75°	45.4	36.6	21.4	6.3	0.0	0.0	1.3	7.6	12.6	11.3	12.6
77.5°	32.8	26.5	12.6	1.3	0.0	0.0	1.3	7.6	12.6	11.3	12.6
80°	21.4	18.9	5.0	0.0	0.0	0.0	1.3	7.6	12.6	12.6	13.9
82.5°	13.9	10.1	0.0	0.0	0.0	0.0	2.5	10.1	13.9	15.1	15.1
85°	6.3	0.0	0.0	0.0	0.0	0.0	5.0	12.6	16.4	16.4	16.4
87.5°	0.0	0.0	0.0	0.0	0.0	2.5	8.8	15.1	18.9	18.9	18.9
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°	5481.6	5481.6	5481.6	5481.6	5481.6	5481.6	5481.6	5481.6	5481.6	5481.6	5481.6
2.5°	4508.3	4587.7	4699.9	4872.7	5012.6	5233.2	5402.2	5632.9	5866.1	5936.7	6046.4
5°	3318.2	3420.3	3675.0	3906.9	4053.2	4519.7	4814.7	5279.9	5697.2	5897.6	6115.7
7.5°	2304.6	2425.6	2619.8	2943.8	3251.4	3630.9	4107.4	4639.4	5250.9	5537.1	5844.7
10°	1617.5	1768.8	2042.4	2308.4	2695.4	3056.0	3526.2	4113.7	4788.2	5126.1	5511.8
12.5°	1021.2	1156.1	1517.9	1816.7	2299.5	2718.1	3151.8	3683.8	4465.4	4812.1	5216.8
15°	583.7	697.2	866.1	1249.4	1785.2	2338.6	2879.5	3497.2	4300.3	4727.7	5165.1
17.5°	434.9	465.2	540.8	757.7	1245.6	1892.3	2628.6	3440.5	4412.5	4914.3	5413.5
20°	365.6	385.8	421.1	506.8	794.2	1457.4	2384.0	3450.6	4775.6	5405.9	5880.0
22.5°	327.8	340.4	369.4	424.9	542.1	1061.5	2097.8	3509.8	5215.6	6009.8	6557.0
25°	287.4	303.8	329.0	377.0	451.3	736.3	1815.4	3642.2	5832.1	6776.3	7290.7
27.5°	255.9	271.1	296.3	340.4	395.9	562.3	1486.4	3755.7	6482.6	7547.9	7969.0
30°	224.4	239.5	264.7	300.0	350.5	455.1	1132.1	3822.5	7114.2	8126.6	8450.6
32.5°	197.9	210.5	234.5	266.0	307.6	385.8	892.6	3753.1	7597.1	8652.3	8869.1
35°	171.5	186.6	206.8	235.8	272.3	329.0	742.6	3513.6	8011.8	9193.1	9271.3
37.5°	143.7	161.4	182.8	209.3	238.3	302.6	596.3	3248.9	8455.6	9867.6	9739.0
40°	121.0	137.4	157.6	186.6	213.1	277.4	458.9	2966.5	8934.7	10500.5	10249.6
42.5°	98.3	116.0	139.9	166.4	210.5	242.1	355.5	2674.0	9364.6	11051.4	10711.0
45°	78.2	93.3	118.5	152.5	209.3	208.0	274.8	2385.3	9688.6	11444.8	11055.2
47.5°	61.8	74.4	99.6	148.8	192.9	176.5	220.6	2206.2	10029.0	11799.0	11318.7
50°	49.2	61.8	85.7	155.1	168.9	151.3	185.3	2235.2	10358.0	11979.3	11427.1
52.5°	41.6	54.2	74.4	122.3	129.9	132.4	162.6	2368.9	10782.9	12172.2	11642.7
55°	36.6	47.9	63.0	85.7	100.9	118.5	148.8	2466.0	11351.5	12585.7	12118.0
57.5°	29.0	41.6	56.7	73.1	83.2	103.4	137.4	2473.5	11865.8	13116.5	12749.6
59°	26.5	37.8	52.9	69.3	74.4	93.3	129.9	2409.2	11884.7	13195.9	13039.6
60°	24.0	36.6	50.4	64.3	70.6	88.2	123.5	2334.8	11713.3	13069.8	13159.3
62.5°	20.2	31.5	44.1	51.7	60.5	73.1	107.2	2065.0	10882.5	12498.7	12937.4
65°	17.6	27.7	37.8	42.9	50.4	63.0	94.6	1652.8	9964.7	11724.6	12302.0
67.5°	16.4	25.2	32.8	36.6	44.1	58.0	84.5	1167.4	8775.8	10742.5	11347.7
70°	15.1	24.0	29.0	34.0	39.1	49.2	71.9	680.8	6759.9	9020.4	9659.6
72.5°	15.1	22.7	25.2	29.0	34.0	44.1	66.8	368.1	4621.8	6881.0	7706.7
75°	15.1	21.4	22.7	25.2	30.3	40.3	59.3	192.9	2987.9	4780.6	5900.1
77.5°	15.1	20.2	22.7	24.0	29.0	35.3	51.7	121.0	1990.7	3348.5	3987.6
80°	16.4	20.2	21.4	24.0	27.7	32.8	42.9	80.7	1169.9	2014.6	2426.9
82.5°	17.6	20.2	22.7	25.2	29.0	31.5	37.8	50.4	539.6	1332.6	1507.8
85°	18.9	21.4	24.0	26.5	30.3	31.5	35.3	36.6	88.2	601.4	813.2
87.5°	20.2	22.7	25.2	27.7	32.8	32.8	32.8	32.8	30.3	64.3	163.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P452814

CATALOG NUMBER: GALN-SA3D-740-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5481.6	5481.6	5481.6	5481.6	5481.6	5481.6	5481.6	5481.6	5481.6	5481.6
2.5°	6185.1	6327.5	6427.1	6452.3	6380.5	6347.7	6256.9	6115.7	6030.0	6026.2
5°	6517.9	6852.0	7083.9	7123.0	6984.3	6749.9	6471.2	6111.9	5901.4	5838.4
7.5°	6461.2	7046.1	7419.3	7473.5	7240.3	6792.7	6253.1	5674.5	5445.0	5347.9
10°	6227.9	6941.5	7474.8	7560.5	7249.1	6618.7	5932.9	5287.4	5002.5	4928.1
12.5°	6028.7	6749.9	7223.9	7342.4	7106.6	6477.5	5741.3	5039.1	4734.0	4664.6
15°	5941.7	6522.9	6812.9	6873.4	6834.3	6389.3	5721.1	5001.2	4652.0	4576.4
17.5°	6028.7	6330.0	6366.6	6428.4	6515.4	6380.5	5915.3	5206.7	4829.8	4736.5
20°	6256.9	6162.4	6011.1	6037.6	6236.7	6417.0	6260.7	5661.9	5203.0	5103.4
22.5°	6645.2	6120.8	5777.8	5755.2	6007.3	6539.3	6767.5	6278.4	5746.3	5648.0
25°	7121.8	6225.4	5692.1	5643.0	5917.8	6718.3	7318.4	7033.5	6452.3	6302.3
27.5°	7641.2	6442.2	5692.1	5644.2	5910.2	6877.2	7789.9	7701.7	7183.5	7019.6
30°	7926.1	6621.3	5774.1	5719.9	6003.5	6969.2	8042.1	8295.5	7733.2	7530.2
32.5°	8180.8	6869.6	5934.2	5832.1	6198.9	7105.4	8267.8	8799.8	8170.7	8034.5
35°	8415.3	7135.6	6154.8	6036.3	6456.1	7292.0	8517.4	9329.3	8779.6	8574.1
37.5°	8673.7	7444.5	6499.0	6398.1	6886.0	7655.0	8813.6	10025.2	9378.4	9120.0
40°	8954.8	7802.6	7065.0	7022.2	7569.3	8066.0	9188.1	10767.7	10061.7	9768.0
42.5°	9241.0	8214.8	7758.4	7829.0	8343.4	8642.2	9572.6	11338.9	10621.5	10297.5
45°	9500.7	8741.8	8659.8	9009.1	9246.1	9204.5	9857.5	11741.0	11109.4	10799.3
47.5°	9828.5	9509.6	9750.4	10288.7	10295.0	9815.9	10073.1	12070.1	11529.2	11219.1
50°	10195.4	10416.0	11158.6	11707.0	11559.5	10417.3	10325.2	12459.6	11962.9	11714.5
52.5°	10620.2	11430.9	12459.6	13068.5	12724.4	11072.8	10745.1	12880.7	12651.3	12413.0
55°	11114.4	12123.0	13756.9	14242.3	13895.6	11887.3	11383.0	13451.8	13429.1	13266.5
57.5°	11672.9	12854.2	14508.3	15165.1	14856.2	12842.9	12274.3	13990.1	13904.4	13813.6
59°	12114.2	13229.9	14839.9	15520.6	15334.1	13512.3	12873.1	14325.5	14014.1	13877.9
60°	12381.5	13484.6	14962.1	15568.5	15525.7	13910.7	13252.6	14489.4	14012.8	13823.7
62.5°	13174.4	13929.6	14915.5	15355.5	15523.2	14674.7	14365.8	14669.7	13753.1	13475.8
65°	13456.8	13782.1	14142.7	14088.5	14232.2	14635.6	15076.9	14471.7	13198.4	12803.8
67.5°	12907.2	12164.6	12292.0	11930.1	11859.5	13011.8	14788.2	13503.5	12112.9	11630.1
70°	10880.0	9319.2	9254.9	9421.3	8964.9	10534.5	13279.1	11638.9	10321.5	9774.3
72.5°	8564.0	6586.0	6043.9	6656.6	6642.7	8037.0	11031.2	8258.9	6973.0	6926.4
75°	6734.7	4585.2	4024.2	4123.8	4315.4	5818.2	8785.9	5244.6	4294.0	3913.3
77.5°	4520.9	3248.9	3030.8	2908.5	3115.2	3735.5	5558.5	2844.2	2408.0	2280.6
80°	2605.9	2360.1	2680.3	2433.2	2544.1	2353.8	2764.7	1304.8	1083.0	1172.5
82.5°	1695.7	1343.9	1432.2	1064.0	1454.9	1467.5	887.5	385.8	326.5	346.7
85°	1060.3	630.4	354.3	252.1	501.8	922.8	277.4	24.0	27.7	24.0
87.5°	274.8	104.6	44.1	65.6	80.7	71.9	64.3	3.8	1.3	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)