

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: STREETWORKS

Report Number: P324177

Luminaire Tested: **GAN-SA3D-740-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324177  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA3D-740-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17561 lumens  
Efficiency: N/A  
Efficacy: 91.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

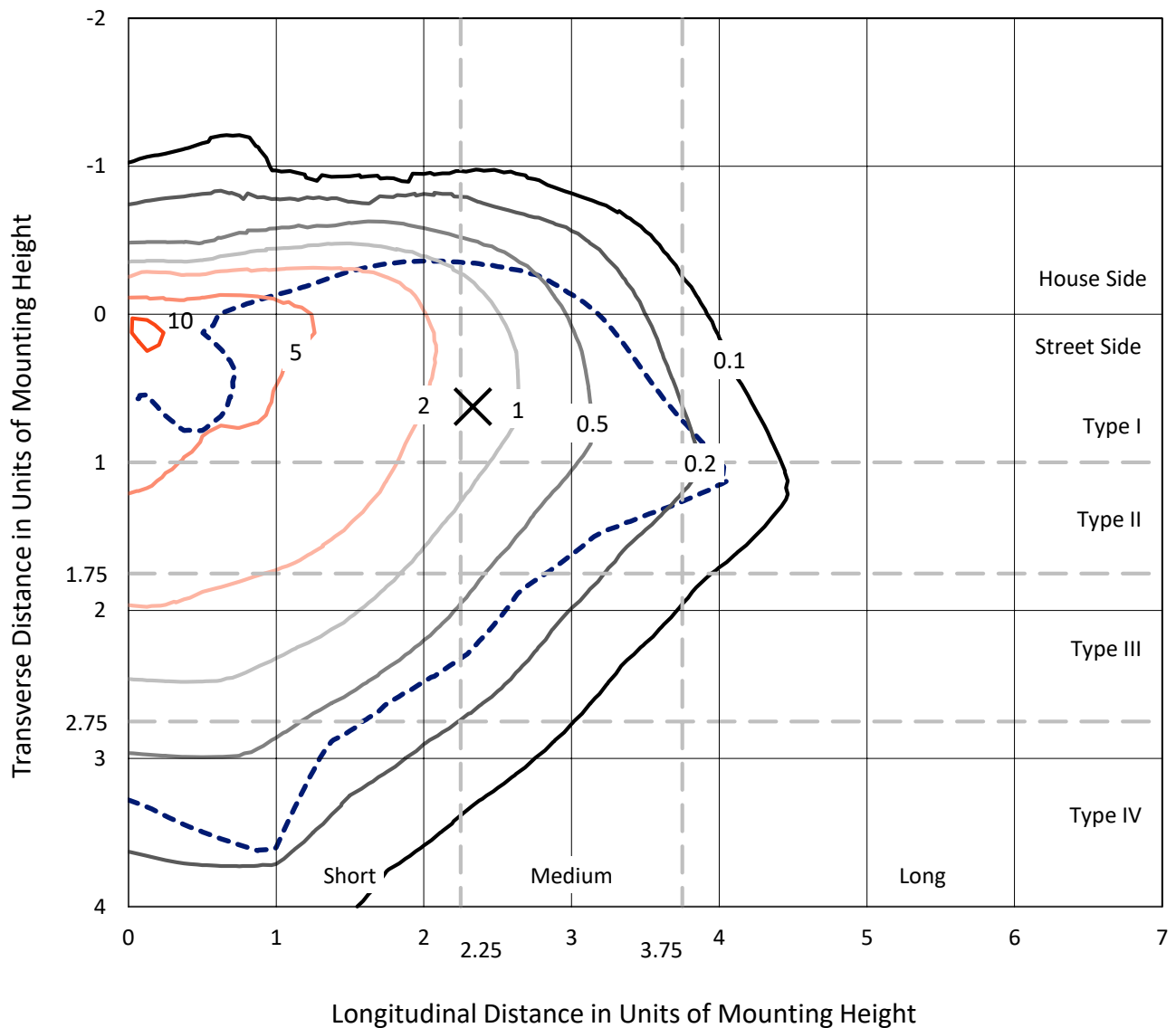
Input Watts (W): 191  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

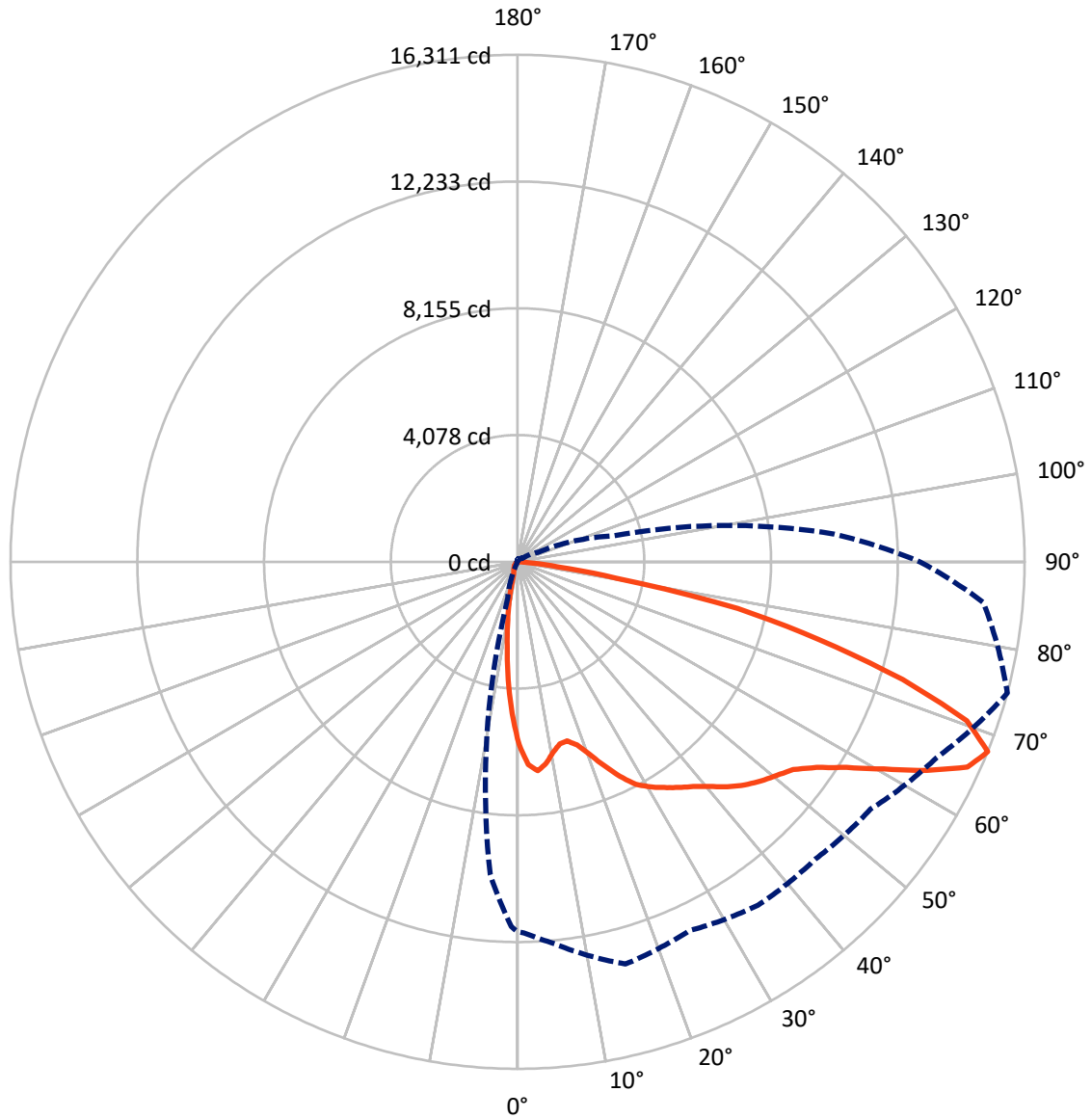
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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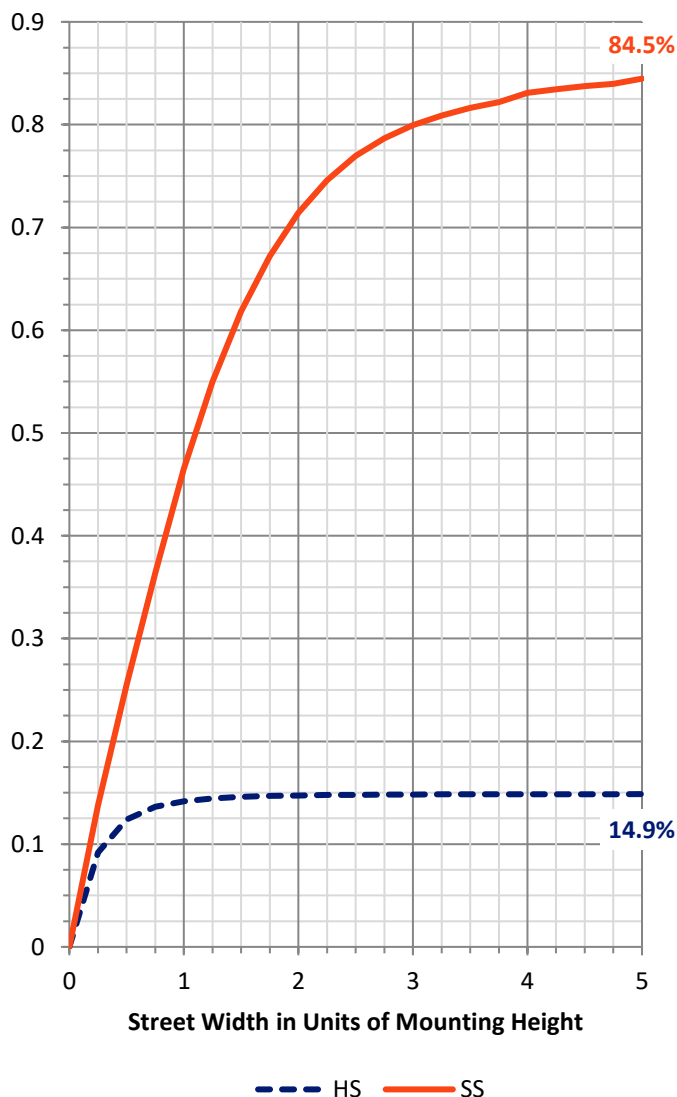
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2635.2	0.0	2635.2
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	14925.8	0.0	14925.8
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	17561.0	0.0	17561.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	446.9	2.5
10°-20°	879.9	5.0
20°-30°	1244.9	7.1
30°-40°	1830.3	10.4
40°-50°	2630.7	15.0
50°-60°	3703.4	21.1
60°-70°	4325.2	24.6
70°-80°	2206.6	12.6
80°-90°	293.1	1.7
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°	17561.0	100.0
0°-180°	17561.0	100.0

**Coefficient of Utilization**

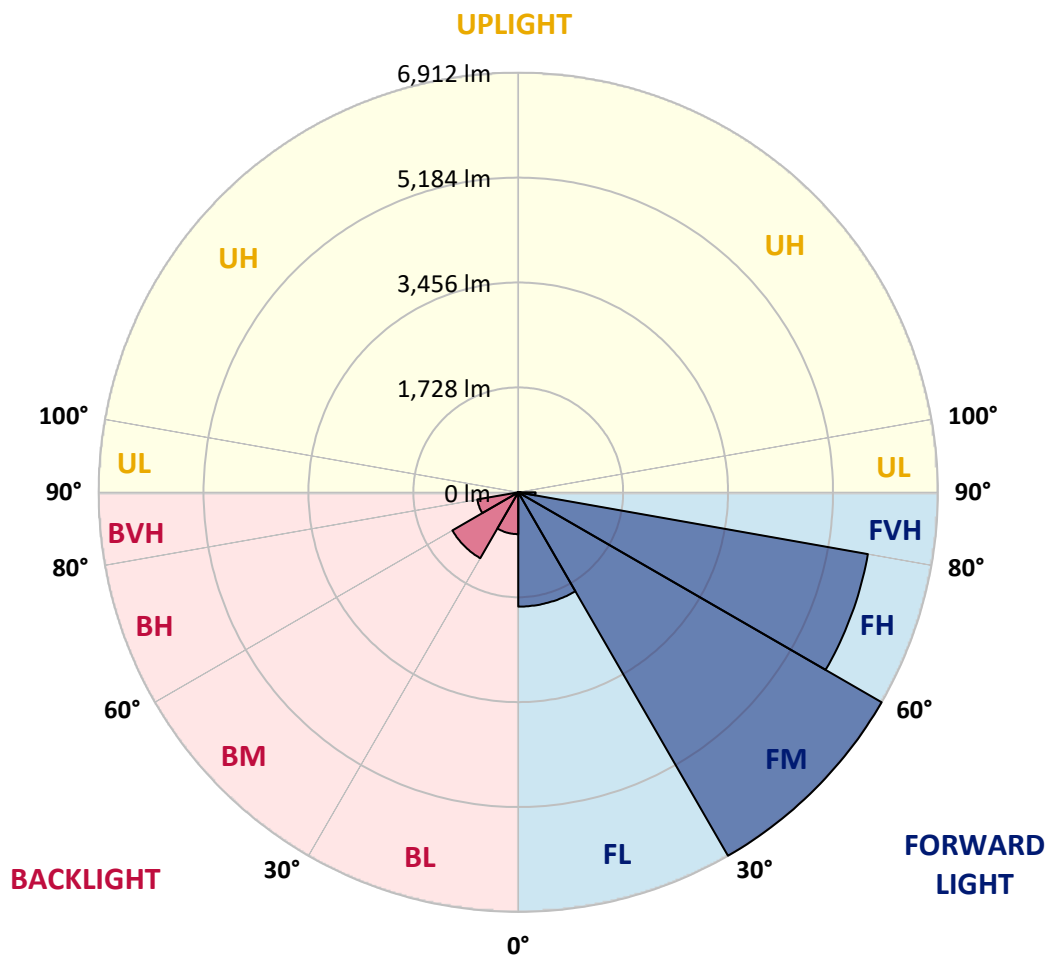


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1882.5	10.7			
FM (30°-60°)	6911.7	39.4			
FH (60°-80°)	5847.3	33.3			G3/7500
FVH (80°-90°)	284.2	1.6			G3/500
BL (0°-30°)	689.1	3.9	B2/1000		
BM (30°-60°)	1252.7	7.1	B2/2500		
BH (60°-80°)	684.5	3.9	B2/1000		G2/1000
BVH (80°-90°)	8.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4
2.5°	6386.4	6396.4	6447.9	6567.7	6698.3	6708.3	6796.5	6705.8	6675.1	6528.6	6377.2
5°	6434.6	6472.9	6650.1	7002.0	7307.3	7405.4	7475.3	7297.3	7110.1	6752.4	6370.6
7.5°	6046.1	6110.2	6388.9	7049.4	7595.1	7836.4	7882.1	7603.4	7145.1	6556.1	5982.1
10°	5548.7	5621.9	5958.0	6769.9	7519.4	7932.9	7996.1	7630.9	6972.0	6238.3	5562.0
12.5°	5146.0	5231.7	5575.3	6455.4	7259.0	7716.6	7841.4	7538.5	6822.3	6012.9	5275.0
15°	4960.5	5058.7	5419.7	6252.5	6970.4	7330.6	7433.7	7303.1	6739.1	5977.1	5208.4
17.5°	5067.0	5173.5	5546.2	6269.9	6699.2	6853.1	6936.3	6989.5	6739.1	6192.6	5403.1
20°	5503.8	5618.6	6012.9	6447.1	6474.6	6417.2	6506.2	6693.4	6817.3	6601.8	5870.6
22.5°	6107.7	6242.5	6687.5	6750.8	6364.8	6147.6	6159.3	6452.9	6959.6	7120.9	6519.5
25°	6843.9	7008.6	7461.2	7203.3	6410.5	5987.1	5982.9	6254.9	7098.5	7640.9	7242.4
27.5°	7575.2	7756.5	8154.1	7755.7	6599.3	5958.0	5949.6	6195.1	7234.1	8103.4	8031.9
30°	8188.3	8364.6	8707.3	8155.8	6803.2	6026.2	5986.3	6259.1	7314.8	8403.7	8607.5
32.5°	8687.4	8828.8	9105.8	8431.2	7021.1	6158.5	6071.9	6430.5	7452.0	8657.4	9136.6
35°	9236.4	9385.3	9496.0	8693.2	7265.7	6349.0	6225.0	6702.5	7663.3	8915.3	9716.4
37.5°	9862.8	10010.9	9997.6	8932.8	7576.0	6664.2	6585.2	7133.4	7991.9	9170.7	10363.6
40°	10475.9	10627.3	10519.2	9194.8	7940.3	7184.2	7125.9	7780.6	8432.0	9497.6	11122.3
42.5°	11049.9	11213.8	10982.6	9442.7	8374.6	7839.7	7939.5	8614.2	8982.7	9900.3	11776.2
45°	11512.5	11679.7	11371.0	9684.0	8832.1	8635.0	8935.3	9537.6	9644.9	10240.5	12217.9
47.5°	11848.5	12006.6	11640.6	9925.2	9417.8	9607.4	10130.7	10505.9	10243.0	10535.8	12531.5
50°	12063.2	12186.3	11719.6	10227.2	10186.4	10742.1	11376.0	11559.1	10806.2	10802.0	12912.5
52.5°	12199.6	12255.3	11777.8	10542.5	10988.4	11977.5	12595.6	12653.0	11386.0	11094.9	13425.8
55°	12669.6	12714.5	12190.5	10924.3	11651.4	13059.8	13698.7	13645.4	12042.4	11668.0	14031.4
57.5°	13471.6	13519.0	13043.1	11473.4	12188.0	13728.6	14498.1	14593.8	12811.9	12473.3	14680.3
60°	13874.2	13962.4	13792.7	12168.8	12707.9	14156.2	15043.0	15348.3	13773.5	13534.8	15309.2
62.5°	13509.0	13637.1	13883.3	12940.0	13224.5	14391.6	15212.7	15618.7	14758.5	14771.8	15696.9
65°	12780.3	12882.6	13300.2	13362.6	13524.0	14362.5	14793.4	15241.0	15361.6	15908.2	15676.1
67.5°	11900.1	11938.4	12292.8	13395.9	13089.7	13487.4	13533.9	13865.0	14884.9	16310.8	15046.3
70°	10633.2	10654.0	10963.4	12282.0	11248.8	11336.1	11267.1	11334.4	12796.9	15330.0	13456.6
72.5°	8557.6	8610.0	9050.1	10199.8	8194.9	7942.8	8485.2	8455.3	9855.4	12951.6	9994.3
75°	6300.7	6391.4	7056.1	8215.7	5751.7	5202.6	5598.6	5704.2	7006.1	10018.4	6250.0
77.5°	4411.5	4478.9	5122.8	6039.5	4162.8	3720.2	3577.1	3702.7	4624.5	7247.4	3148.7
80°	2541.4	2566.4	2977.3	3487.3	2805.1	3209.4	2907.4	2994.0	2771.0	3224.4	1354.3
82.5°	1662.9	1667.1	1827.7	2075.6	1747.0	2029.8	1502.4	1920.8	1704.5	1295.2	440.9
85°	898.4	903.4	1059.8	1473.3	989.1	559.0	328.6	674.7	1054.0	297.0	120.6
87.5°	99.0	90.7	319.4	535.7	274.5	50.7	17.5	75.7	168.9	19.1	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°	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4
2.5°	6299.9	6230.8	6058.6	5876.4	5730.0	5592.8	5454.7	5285.8	5155.2	5128.6	5085.3
5°	6165.1	5946.3	5585.3	5222.6	4930.6	4562.1	4328.3	4146.1	3968.1	3957.3	3921.5
7.5°	5694.3	5406.4	4898.1	4396.5	3985.6	3634.5	3280.1	3043.0	2856.7	2791.0	2751.9
10°	5241.7	4918.1	4283.4	3711.0	3344.2	3033.9	2784.3	2536.4	2311.8	2157.1	2087.2
12.5°	4925.6	4567.9	3868.3	3375.0	3112.1	2817.6	2513.1	2203.7	1944.9	1758.6	1644.6
15°	4803.3	4421.5	3729.3	3241.9	2917.4	2544.7	2155.4	1801.9	1514.9	1346.0	1243.7
17.5°	4948.9	4504.7	3718.5	3079.6	2626.3	2162.9	1732.8	1315.2	1044.8	916.7	851.0
20°	5318.2	4769.2	3714.4	2880.8	2280.2	1710.4	1173.8	865.2	701.3	629.7	599.0
22.5°	5840.7	5106.9	3747.6	2684.5	1920.0	1222.0	810.3	635.6	551.5	513.3	495.8
25°	6512.8	5581.1	3841.6	2506.5	1581.4	911.7	631.4	532.4	473.3	443.4	430.9
27.5°	7229.1	6126.8	3988.1	2351.7	1306.1	727.1	540.7	455.9	413.4	392.7	381.0
30°	7819.7	6759.1	4136.1	2179.5	1106.4	633.9	495.0	415.9	366.9	353.6	342.7
32.5°	8336.3	7237.4	4241.0	2024.0	975.8	563.2	447.6	371.9	338.6	312.8	301.1
35°	8871.2	7635.9	4237.6	1915.0	886.0	509.9	407.6	332.8	292.8	262.9	253.7
37.5°	9450.2	8085.9	4165.3	1821.8	846.9	467.5	385.2	312.0	272.0	242.1	230.4
40°	10128.2	8558.4	4091.2	1734.5	836.0	433.4	369.4	295.3	252.9	223.8	212.1
42.5°	10788.7	8984.4	4026.3	1669.6	789.5	432.6	355.2	282.8	237.9	209.6	196.3
45°	11317.0	9381.2	4013.8	1630.5	740.4	447.6	347.7	274.5	226.3	198.0	185.5
47.5°	11756.2	9812.1	4093.7	1603.0	693.8	408.5	366.0	268.7	215.5	188.0	173.9
50°	12278.6	10341.2	4281.7	1558.1	644.7	367.7	419.3	270.4	206.3	178.0	163.0
52.5°	13007.4	11073.2	4557.9	1482.4	577.3	330.3	412.6	272.0	196.3	167.2	152.2
55°	13824.3	11987.5	4854.9	1356.8	483.3	281.2	353.6	260.4	177.2	155.6	141.4
57.5°	14682.8	12816.9	5031.2	1207.1	384.3	242.9	282.8	237.1	156.4	139.8	130.6
60°	14817.5	13132.1	4950.6	1023.2	305.3	211.3	209.6	241.2	139.8	123.1	116.5
62.5°	14482.3	12736.2	4560.4	859.3	255.4	185.5	172.2	210.5	126.4	109.8	103.2
65°	13837.6	11665.5	3928.2	774.5	237.1	158.9	143.1	148.1	110.6	95.7	89.8
67.5°	12940.8	10236.4	3225.2	726.2	234.6	136.4	122.3	112.3	95.7	83.2	78.2
70°	11107.3	8527.7	2573.0	699.6	227.9	114.8	103.2	91.5	79.9	70.7	66.6
72.5°	8174.9	6042.8	2001.5	670.5	229.6	91.5	89.8	75.7	64.1	54.9	53.2
75°	4723.4	3452.3	1312.7	543.2	218.8	70.7	74.9	53.2	44.9	38.3	38.3
77.5°	2517.3	2105.5	500.0	226.3	79.9	44.9	42.4	31.6	28.3	23.3	22.5
80°	1097.3	926.7	150.6	63.2	44.1	24.1	15.8	14.1	12.5	10.0	9.2
82.5°	388.5	335.2	49.1	30.8	19.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	88.2	63.2	0.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4
2.5°	4997.1	4978.8	4870.7	4874.9	4894.0	4921.4	4856.5	4886.5	4967.2	5044.6	5073.7
5°	3864.1	3868.3	3802.5	3843.3	3879.9	3904.9	3800.1	3801.7	3865.8	3953.1	3998.9
7.5°	2722.8	2716.1	2719.4	2816.8	2885.8	2835.9	2875.0	2739.4	2747.7	2810.1	2763.5
10°	2024.0	1932.5	1880.9	1954.1	2029.8	2002.3	1935.0	1890.9	1921.7	1990.7	1985.7
12.5°	1590.6	1459.1	1381.8	1329.4	1391.7	1340.2	1338.5	1300.2	1258.6	1266.1	1376.8
15°	1196.3	1100.6	1009.1	925.1	923.4	905.9	816.9	717.1	708.8	713.8	771.2
17.5°	822.7	790.3	752.9	680.5	661.3	588.1	501.6	461.7	441.7	450.9	470.0
20°	578.2	565.7	569.8	530.7	503.3	433.4	382.7	366.9	363.5	372.7	381.8
22.5°	479.2	456.7	454.2	436.7	409.3	358.5	331.1	321.9	317.8	326.1	332.8
25°	419.3	396.8	387.7	376.8	347.7	312.8	296.2	287.8	283.7	288.7	292.8
27.5°	369.4	348.6	340.2	332.8	304.5	279.5	266.2	258.7	255.4	257.1	261.2
30°	331.9	313.6	302.8	293.7	269.5	252.1	240.4	232.9	229.6	229.6	233.8
32.5°	292.8	282.8	272.9	261.2	238.8	227.1	215.5	207.1	203.8	204.6	208.0
35°	243.7	240.4	242.9	232.1	213.0	203.0	191.3	182.2	179.7	180.5	183.8
37.5°	216.3	201.3	210.5	204.6	193.8	180.5	165.5	157.2	153.1	155.6	157.2
40°	198.8	180.5	173.9	179.7	178.0	156.4	143.1	134.8	131.4	132.3	133.9
42.5°	183.8	162.2	147.2	146.4	156.4	136.4	122.3	114.8	110.6	110.6	112.3
45°	169.7	146.4	128.1	114.0	131.4	115.6	102.3	95.7	90.7	90.7	91.5
47.5°	158.9	133.1	111.5	93.2	99.0	94.8	84.0	77.4	72.4	72.4	73.2
50°	148.9	119.8	96.5	78.2	74.0	78.2	68.2	60.7	57.4	56.6	58.2
52.5°	138.1	106.5	82.4	66.6	58.2	59.1	53.2	48.2	44.1	44.1	45.8
55°	127.3	95.7	71.5	56.6	48.2	44.1	42.4	39.1	35.8	35.8	37.4
57.5°	116.5	84.0	60.7	46.6	38.3	34.9	34.9	32.4	29.9	29.9	31.6
60°	106.5	72.4	49.9	38.3	29.9	29.1	29.9	27.5	25.8	25.8	27.5
62.5°	94.8	61.6	40.8	31.6	24.1	23.3	25.8	24.1	22.5	22.5	24.1
65°	80.7	52.4	32.4	24.1	18.3	18.3	21.6	20.0	18.3	18.3	20.0
67.5°	68.2	44.1	25.0	17.5	13.3	14.1	18.3	16.6	15.8	15.8	17.5
70°	56.6	34.1	17.5	10.8	7.5	10.8	14.1	14.1	14.1	14.1	15.8
72.5°	42.4	23.3	10.0	4.2	3.3	7.5	11.6	13.3	12.5	12.5	15.0
75°	27.5	13.3	3.3	0.0	0.0	4.2	9.2	10.8	10.8	10.0	12.5
77.5°	15.8	4.2	0.0	0.0	0.0	0.0	5.8	5.0	4.2	3.3	5.8
80°	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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



REPORT NUMBER: P324177  
 CATALOG NUMBER: GAN-SA3D-740-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4
2.5°	5191.0	5289.1	5427.2	5573.6	5799.1	5977.9	6153.5	6304.0	6362.3	6386.4
5°	4108.7	4252.6	4454.7	4714.3	5121.1	5487.1	5858.1	6231.7	6393.9	6434.6
7.5°	2948.2	3132.0	3389.1	3714.4	4191.0	4665.2	5183.5	5731.7	5982.9	6046.1
10°	2182.0	2406.6	2701.1	3043.9	3498.9	3986.4	4551.2	5177.7	5464.7	5548.7
12.5°	1548.1	1851.8	2246.1	2662.9	3057.2	3492.3	4063.8	4754.2	5055.4	5146.0
15°	909.3	1202.9	1669.6	2227.8	2732.7	3173.6	3754.3	4537.1	4869.0	4960.5
17.5°	521.6	668.0	1020.7	1643.0	2328.4	2939.1	3657.0	4591.2	4982.2	5067.0
20°	398.5	445.1	588.1	1058.2	1855.9	2708.6	3657.0	4897.3	5379.0	5503.8
22.5°	348.6	382.7	440.9	631.4	1366.0	2461.6	3699.4	5339.9	5969.6	6107.7
25°	309.5	340.2	390.2	475.0	931.7	2167.9	3800.1	5883.1	6665.1	6843.9
27.5°	277.0	306.1	351.1	415.9	637.2	1813.5	3935.7	6520.3	7432.1	7575.2
30°	247.9	275.4	316.1	361.9	491.6	1411.7	4051.3	7120.9	8034.4	8188.3
32.5°	220.4	245.4	282.0	316.1	402.6	1044.0	4063.8	7596.8	8534.3	8687.4
35°	194.7	217.1	250.4	277.0	333.6	824.4	3869.9	8009.4	9034.3	9236.4
37.5°	169.7	191.3	220.4	240.4	293.7	672.2	3573.8	8469.4	9675.7	9862.8
40°	146.4	165.5	195.5	208.8	277.8	516.6	3251.8	8951.9	10304.6	10475.9
42.5°	124.8	143.1	172.2	198.0	243.7	386.0	2904.1	9404.5	10870.3	11049.9
45°	104.0	123.1	152.2	209.6	202.1	288.7	2532.3	9704.8	11317.0	11512.5
47.5°	84.0	105.6	145.6	199.7	161.4	212.1	2237.8	9989.3	11655.6	11848.5
50°	67.4	89.0	163.9	178.0	132.3	162.2	2114.7	10243.8	11877.7	12063.2
52.5°	54.9	74.9	154.7	136.4	110.6	133.9	2181.2	10656.5	12083.1	12199.6
55°	45.8	59.1	93.2	94.8	94.0	114.0	2263.6	11248.8	12614.7	12669.6
57.5°	39.9	47.4	64.9	73.2	79.0	101.5	2265.2	12098.9	13437.5	13471.6
60°	34.1	41.6	54.1	59.1	68.2	90.7	2182.9	12395.9	13761.1	13874.2
62.5°	29.9	36.6	44.9	49.1	57.4	81.5	1989.9	11965.8	13316.8	13509.0
65°	26.6	33.3	37.4	41.6	50.7	73.2	1672.1	11105.7	12579.8	12780.3
67.5°	23.3	29.1	33.3	37.4	45.8	64.9	1231.2	10106.6	11733.7	11900.1
70°	20.8	25.8	29.9	33.3	39.9	54.9	747.0	8575.9	10564.1	10633.2
72.5°	20.0	23.3	27.5	29.9	34.9	48.2	378.5	6302.4	8445.3	8557.6
75°	17.5	20.8	25.0	26.6	30.8	41.6	153.9	4139.5	6120.2	6300.7
77.5°	14.1	19.1	22.5	24.1	26.6	34.1	78.2	2645.4	4295.0	4411.5
80°	5.0	14.1	19.1	20.0	22.5	25.0	51.6	1448.3	2491.5	2541.4
82.5°	0.0	9.2	15.0	14.1	15.8	19.1	33.3	688.8	1644.6	1662.9
85°	0.0	4.2	11.6	9.2	6.7	13.3	11.6	150.6	862.7	898.4
87.5°	0.0	0.0	0.8	4.2	3.3	5.0	1.7	0.8	78.2	99.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)