

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: P324543

Luminaire Tested: **GAN-SA9D-750-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324543  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9D-750-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 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: 51419 lumens  
Efficiency: N/A  
Efficacy: 89.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

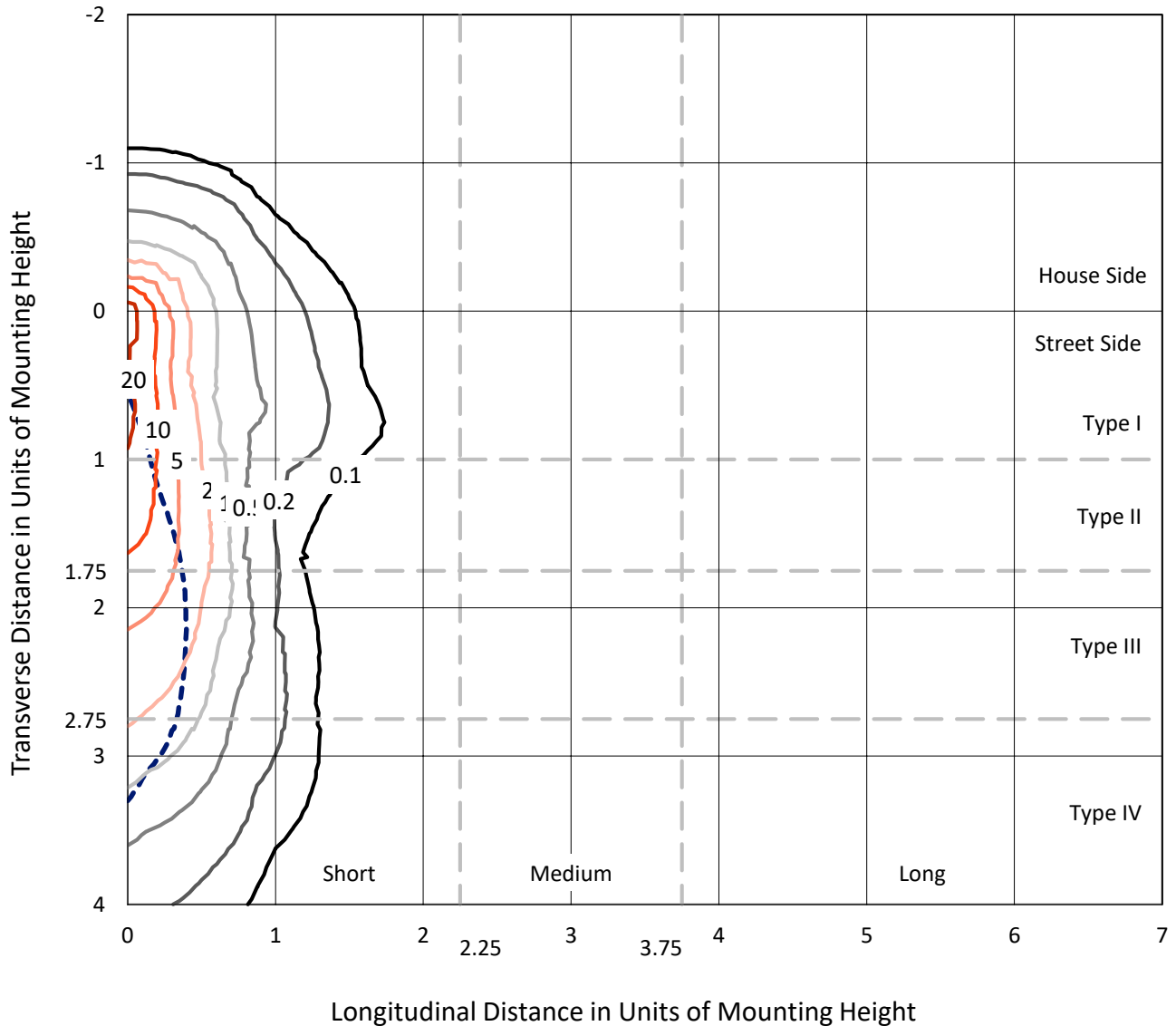
Input Watts (W): 575  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

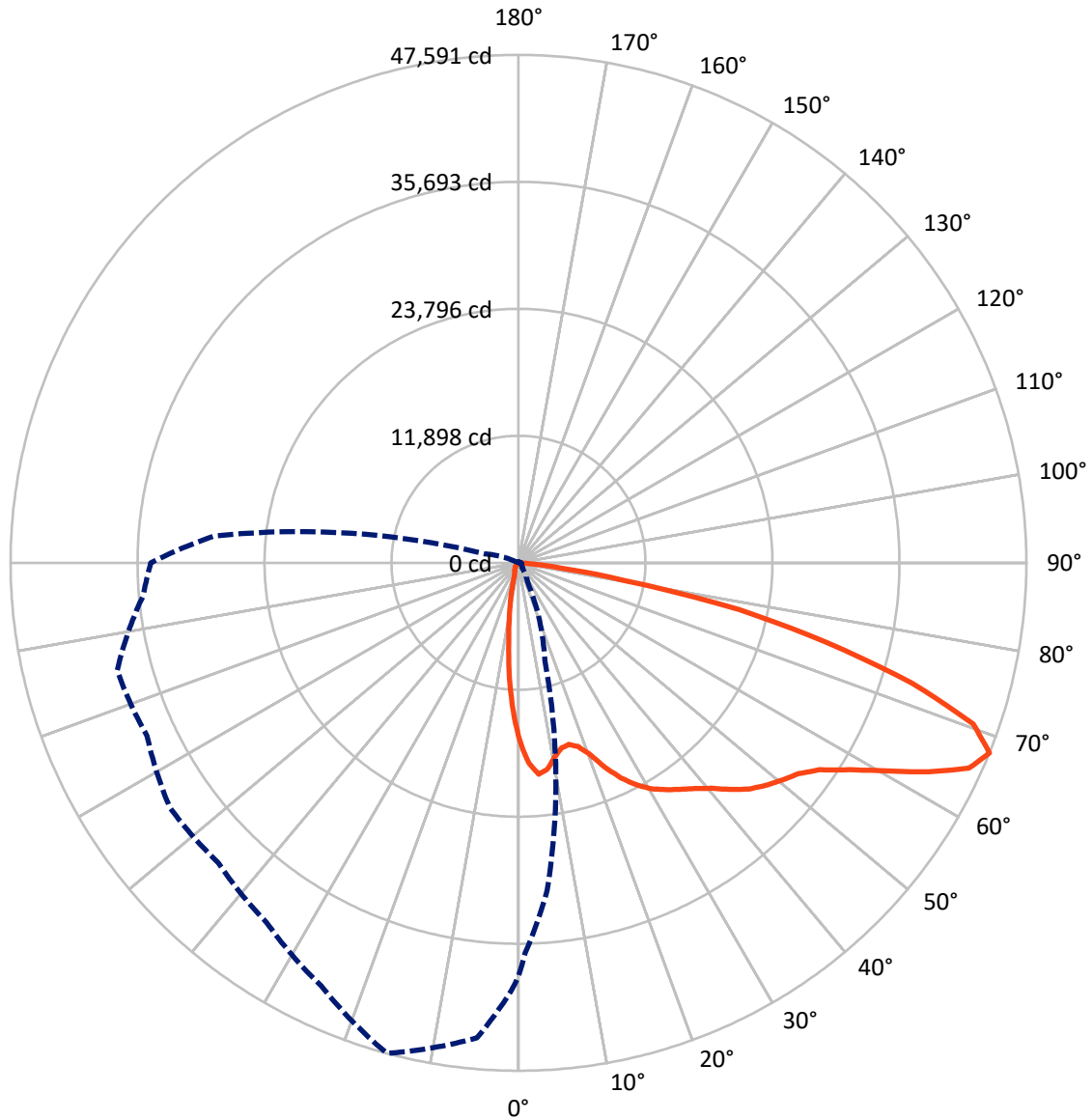
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.8 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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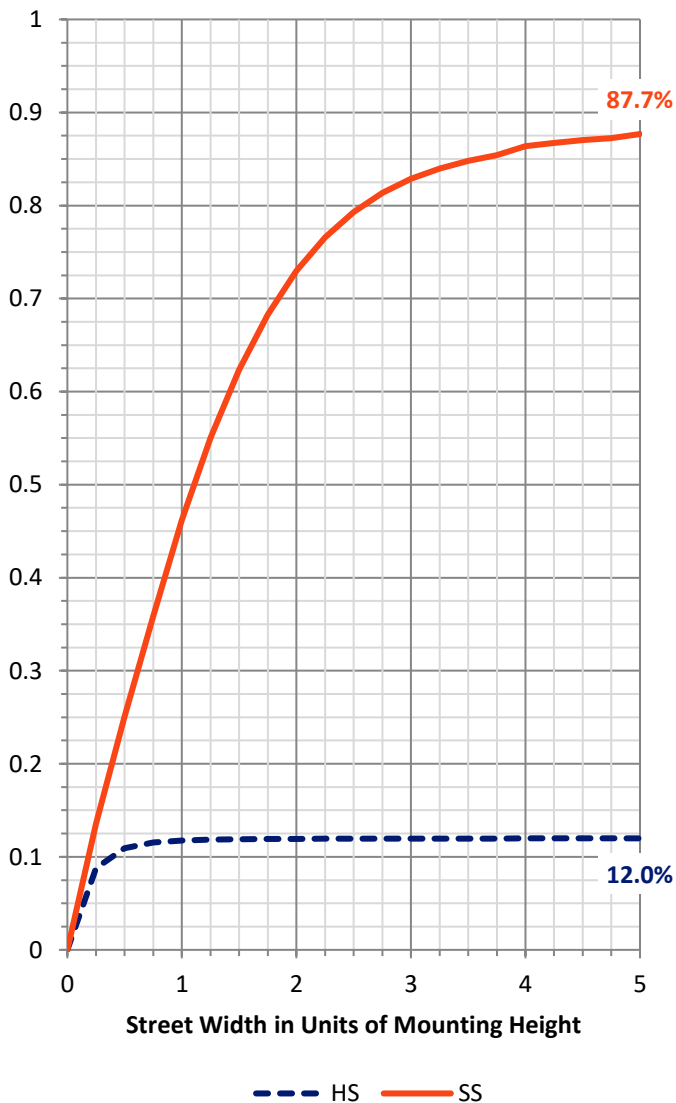
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6223.4	0.0	6223.4
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	45195.6	0.0	45195.6
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	51419.0	0.0	51419.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1285.5	2.5
10°-20°	2558.8	5.0
20°-30°	3633.5	7.1
30°-40°	5366.9	10.4
40°-50°	7740.2	15.1
50°-60°	10865.6	21.1
60°-70°	12666.2	24.6
70°-80°	6475.2	12.6
80°-90°	827.0	1.6
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°	51419.0	100.0
0°-180°	51419.0	100.0

**Coefficient of Utilization**

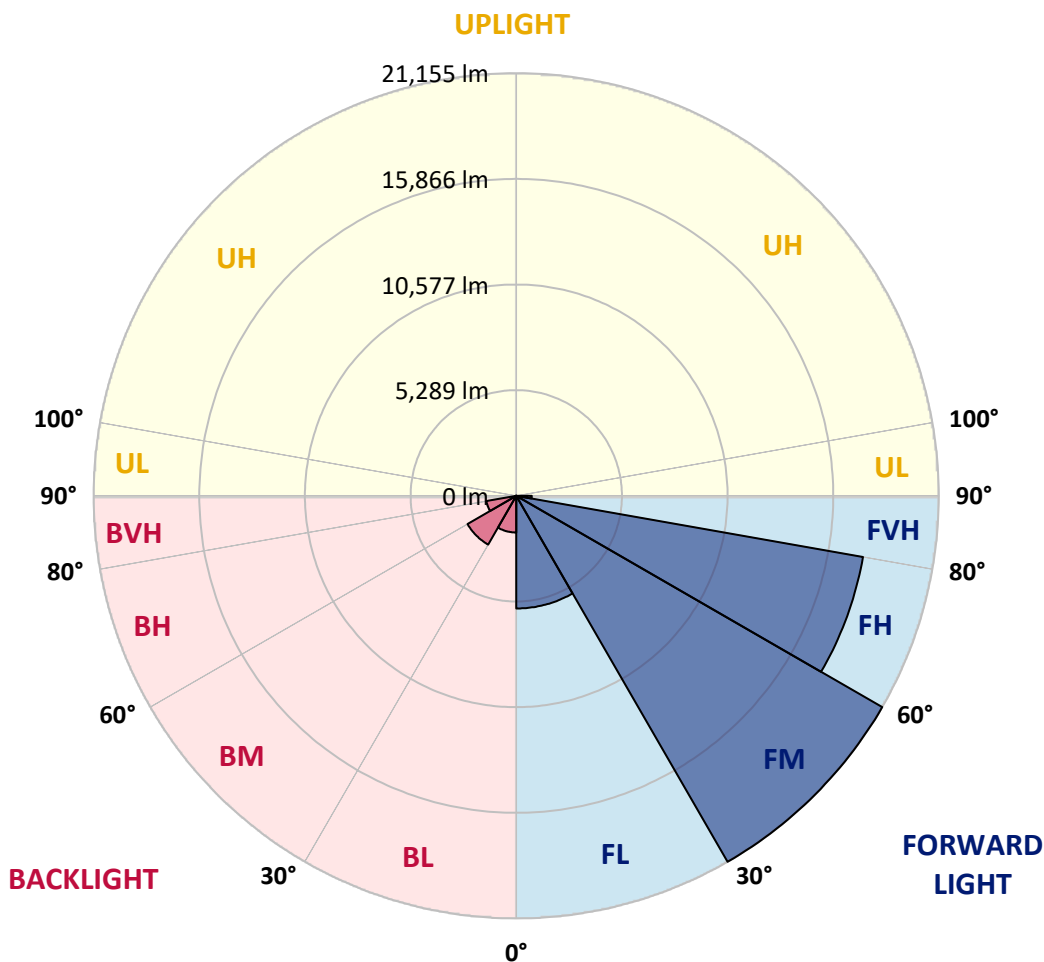


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5639.7	11.0			
FM	(30°-60°)	21154.6	41.1			
FH	(60°-80°)	17624.6	34.3			G5
FVH	(80°-90°)	776.7	1.5			G5
BL	(0°-30°)	1838.2	3.6	B3/2500		
BM	(30°-60°)	2818.2	5.5	B3/5000		
BH	(60°-80°)	1516.8	2.9	B3/2500		G3/2500
BVH	(80°-90°)	50.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16749.6	16749.6	16749.6	16749.6	16749.6	16749.6	16749.6	16749.6	16749.6	16749.6	16749.6
2.5°	18340.3	18199.0	18043.1	17534.0	17061.4	16520.7	16079.8	15772.8	15387.9	14888.6	14761.9
5°	18208.8	18057.8	17568.1	16435.4	15444.0	14479.3	13548.8	13003.1	12325.9	11639.0	11468.5
7.5°	16886.1	16727.7	16021.3	14469.6	13134.7	11741.3	10533.1	9785.2	9020.4	8391.9	8058.1
10°	15509.7	15336.8	14542.7	12659.7	11015.4	9756.0	8869.3	8155.6	7432.1	6759.8	6223.9
12.5°	14562.2	14335.6	13473.3	11339.4	9907.0	9052.0	8223.8	7368.8	6389.5	5668.5	5079.0
15°	14165.1	13906.9	12995.8	10830.3	9514.9	8511.2	7432.1	6382.2	5234.9	4409.1	3868.3
17.5°	14472.0	14135.9	13159.0	10796.2	9022.8	7656.2	6292.1	5059.5	3814.7	2979.2	2594.3
20°	15514.6	15073.7	13833.8	10786.4	8426.0	6640.4	4910.9	3517.5	2513.9	2021.8	1819.7
22.5°	17156.4	16574.3	14803.3	10864.4	7809.7	5573.5	3546.8	2389.7	1887.9	1632.1	1512.7
25°	19139.3	18464.6	16199.1	11139.6	7268.9	4535.8	2577.2	1887.9	1593.1	1405.5	1305.7
27.5°	21024.7	20476.7	17962.8	11536.7	6849.9	3697.8	2092.5	1600.4	1361.7	1237.5	1157.1
30°	22907.7	22218.4	19772.7	12009.3	6345.7	3130.2	1839.1	1459.1	1220.4	1088.9	1037.7
32.5°	24276.8	23704.3	21190.4	12350.3	5807.3	2759.9	1644.3	1334.9	1140.0	1006.1	930.5
35°	25886.9	25239.0	22405.9	12425.8	5461.4	2526.1	1478.6	1200.9	989.0	869.6	789.3
37.5°	27626.2	26819.9	23809.0	12260.2	5191.0	2411.6	1354.4	1140.0	923.2	801.4	716.2
40°	29550.6	28639.6	25156.1	12021.5	4925.5	2372.6	1259.4	1093.7	872.1	747.8	660.1
42.5°	31577.3	30503.1	26323.0	11770.5	4757.4	2238.6	1249.6	1047.5	833.1	699.1	611.4
45°	33280.1	32191.2	27521.4	11687.7	4638.1	2092.5	1291.1	1015.8	806.3	660.1	574.9
47.5°	34636.9	33606.5	28749.2	11872.9	4569.9	1958.5	1176.6	1057.2	791.7	626.0	543.2
50°	36256.8	35090.0	30478.7	12425.8	4470.0	1824.5	1064.5	1210.7	791.7	604.1	516.4
52.5°	38288.4	37133.7	32408.0	13283.3	4270.2	1639.4	957.3	1213.1	799.0	574.9	482.3
55°	40843.7	40005.7	35163.0	14223.6	3951.1	1366.6	828.2	1042.6	769.8	521.3	450.7
57.5°	43294.3	42609.8	37674.5	14866.6	3524.8	1066.9	721.0	840.4	704.0	458.0	401.9
59°	43964.2	43216.3	38595.3	14895.9	3205.7	930.5	667.5	694.2	689.4	428.7	372.7
60°	43964.2	43170.0	38860.8	14740.0	2974.3	855.0	633.3	618.7	718.6	409.2	355.6
62.5°	43167.6	42051.9	37998.5	13685.2	2426.2	728.4	553.0	511.6	645.5	367.8	314.2
65°	41511.2	39886.4	35060.7	11777.9	2163.1	667.5	477.4	419.0	448.2	324.0	275.3
67.5°	38748.8	36546.7	30824.6	9514.9	2058.4	650.4	411.7	355.6	338.6	277.7	241.2
70°	33884.2	31440.9	25682.3	7480.8	1968.3	643.1	345.9	299.6	272.8	233.9	204.6
72.5°	24661.6	22113.6	18233.1	5848.7	1914.7	657.7	277.7	250.9	224.1	182.7	158.3
75°	14106.6	12438.0	10248.1	3863.4	1632.1	628.5	214.4	209.5	160.8	131.5	109.6
77.5°	7288.4	7066.7	6141.0	1483.5	781.9	275.3	141.3	121.8	95.0	80.4	65.8
80°	3144.8	3110.7	2691.7	428.7	207.1	153.5	80.4	51.2	43.8	34.1	26.8
82.5°	1086.4	1086.4	957.3	143.7	92.6	75.5	9.7	0.0	0.0	0.0	0.0
85°	219.2	246.0	173.0	0.0	31.7	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	16749.6	16749.6	16749.6	16749.6	16749.6	16749.6	16749.6	16749.6	16749.6	16749.6	16749.6
2.5°	14608.4	14313.7	14294.2	14109.1	13877.6	13772.9	13712.0	13819.2	13950.7	13965.3	14162.7
5°	11339.4	11030.0	11159.1	10830.3	10896.0	10830.3	10723.1	10742.6	10801.0	10618.3	10844.9
7.5°	7963.1	7729.3	7877.9	7790.2	7907.1	7953.4	7887.6	7790.2	7502.7	7468.6	7666.0
10°	6002.2	5736.7	5578.3	5412.7	5449.2	5524.8	5500.4	5429.7	5247.1	5256.8	5446.8
12.5°	4823.2	4526.0	4211.8	3805.0	3705.1	3761.1	3705.1	3663.7	3488.3	3502.9	3671.0
15°	3658.8	3415.2	3086.4	2759.9	2582.1	2599.2	2443.3	2333.6	2224.0	2092.5	2194.8
17.5°	2470.1	2321.5	2224.0	2126.6	1914.7	1865.9	1668.6	1456.7	1373.9	1313.0	1356.8
20°	1749.0	1668.6	1629.7	1624.8	1503.0	1442.1	1249.6	1118.1	1076.7	1064.5	1091.3
22.5°	1461.6	1403.1	1347.1	1315.4	1254.5	1183.9	1037.7	971.9	942.7	928.1	947.6
25°	1271.6	1227.7	1169.3	1115.7	1091.3	1015.8	911.0	862.3	842.8	828.2	838.0
27.5°	1130.3	1091.3	1023.1	989.0	969.5	903.7	813.6	774.6	757.6	752.7	750.3
30°	1018.2	981.7	918.4	879.4	845.3	786.8	733.2	694.2	677.2	672.3	667.5
32.5°	906.2	876.9	835.5	796.6	760.0	706.4	660.1	628.5	601.7	596.8	594.4
35°	764.9	735.7	713.7	711.3	677.2	626.0	591.9	550.5	528.6	521.3	523.7
37.5°	679.6	640.7	591.9	609.0	599.2	562.7	516.4	475.0	453.1	448.2	448.2
40°	626.0	584.6	528.6	499.4	528.6	521.3	448.2	406.8	384.9	382.4	377.6
42.5°	574.9	533.5	470.1	421.4	436.0	458.0	387.3	348.3	326.4	321.5	314.2
45°	538.3	494.5	423.9	367.8	338.6	384.9	331.3	282.6	270.4	260.6	255.8
47.5°	504.2	462.8	382.4	319.1	270.4	277.7	265.5	231.4	216.8	207.1	204.6
50°	475.0	431.2	345.9	272.8	224.1	204.6	214.4	182.7	170.5	160.8	155.9
52.5°	440.9	399.5	306.9	236.3	187.6	160.8	163.2	143.7	131.5	124.2	121.8
55°	414.1	372.7	275.3	207.1	165.6	131.5	116.9	112.1	104.7	99.9	97.4
57.5°	377.6	338.6	243.6	175.4	141.3	107.2	90.1	90.1	87.7	82.8	80.4
59°	355.6	321.5	224.1	158.3	129.1	92.6	80.4	82.8	80.4	75.5	73.1
60°	338.6	306.9	209.5	146.2	121.8	85.3	73.1	78.0	75.5	70.6	68.2
62.5°	299.6	277.7	180.3	121.8	107.2	68.2	60.9	65.8	65.8	63.3	60.9
65°	263.1	238.7	153.5	102.3	99.9	58.5	48.7	58.5	60.9	56.0	51.2
67.5°	229.0	204.6	134.0	82.8	92.6	46.3	36.5	48.7	65.8	51.2	46.3
70°	194.9	170.5	104.7	65.8	97.4	31.7	29.2	43.8	78.0	56.0	43.8
72.5°	151.0	131.5	73.1	48.7	104.7	21.9	21.9	36.5	87.7	60.9	41.4
75°	104.7	85.3	43.8	29.2	85.3	14.6	14.6	34.1	82.8	56.0	39.0
77.5°	60.9	46.3	14.6	2.4	43.8	0.0	2.4	24.4	58.5	34.1	17.1
80°	21.9	9.7	0.0	0.0	26.8	0.0	0.0	0.0	4.9	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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	16749.6	16749.6	16749.6	16749.6	16749.6	16749.6	16749.6	16749.6	16749.6	16749.6	16749.6
2.5°	14213.8	14542.7	14837.4	15283.2	15811.8	16420.8	16944.5	17507.2	18035.8	18255.1	18406.1
5°	10891.2	11298.0	11773.0	12428.3	13300.3	14374.6	15380.6	16518.2	17741.1	18352.5	18927.4
7.5°	7700.1	8114.2	8703.7	9400.4	10455.1	11734.0	13049.4	14620.6	16277.1	17244.1	18196.6
10°	5536.9	6046.0	6596.6	7549.0	8620.9	9834.0	11188.4	12942.2	14788.7	15860.5	17007.9
12.5°	3768.4	4348.2	5181.3	6248.2	7507.6	8696.4	9872.9	11546.4	13690.1	14752.2	15982.3
15°	2260.6	2582.1	3463.9	4699.0	6243.4	7724.4	9013.0	10691.4	12976.3	14277.1	15556.0
17.5°	1393.4	1542.0	2021.8	3035.2	4657.6	6530.8	8296.9	10401.5	13078.7	14662.0	16031.0
20°	1110.8	1169.3	1322.7	1792.9	3086.4	5215.4	7490.6	10343.1	13914.2	15863.0	17331.8
22.5°	964.6	1020.7	1123.0	1303.2	1941.5	3904.8	6725.7	10396.7	15112.7	17663.1	19378.0
25°	850.1	898.9	996.3	1144.9	1422.6	2750.2	5907.2	10635.4	16674.1	19896.9	21719.0
27.5°	760.0	801.4	891.6	1028.0	1220.4	1919.5	4979.1	10925.3	18525.5	22181.8	23979.6
30°	677.2	713.7	794.1	920.8	1059.6	1476.2	3960.9	11122.6	20379.2	23979.6	25594.6
32.5°	606.6	633.3	706.4	813.6	920.8	1176.6	3010.8	11090.9	21755.5	25475.2	26756.6
35°	533.5	560.3	623.6	716.2	801.4	971.9	2367.8	10499.0	22954.0	27026.9	28086.6
37.5°	453.1	487.2	548.1	630.9	689.4	855.0	1914.7	9785.2	24169.6	28800.3	29570.1
40°	384.9	419.0	472.6	562.7	599.2	811.2	1471.3	8915.6	25536.1	30783.2	31197.3
42.5°	319.1	350.8	406.8	484.8	565.1	699.1	1088.9	7921.7	26849.1	32478.6	32680.8
45°	258.2	289.9	348.3	426.3	604.1	579.8	842.8	6857.2	27908.8	33889.0	33954.8
47.5°	204.6	233.9	294.8	401.9	562.7	462.8	601.7	6021.7	28797.9	34990.1	34817.1
50°	158.3	182.7	246.0	460.4	492.1	382.4	455.5	5744.0	29594.4	35672.2	35223.9
52.5°	124.2	146.2	202.2	431.2	382.4	316.7	382.4	6004.6	30685.8	36237.3	35452.9
55°	99.9	121.8	158.3	246.0	260.6	268.0	326.4	6248.2	32568.8	37562.5	36804.9
57.5°	82.8	104.7	129.1	173.0	197.3	226.5	289.9	6275.0	34787.9	39764.6	39048.4
59°	75.5	95.0	116.9	153.5	173.0	207.1	272.8	6128.9	35569.9	40566.0	40207.9
60°	70.6	90.1	109.6	141.3	160.8	194.9	263.1	5990.0	35604.0	40536.8	40702.4
62.5°	60.9	80.4	97.4	119.4	136.4	165.6	236.3	5476.0	34161.9	39209.2	40405.2
65°	53.6	70.6	87.7	102.3	116.9	148.6	214.4	4538.2	31699.1	37068.0	38371.2
67.5°	48.7	60.9	80.4	90.1	104.7	131.5	190.0	3235.0	28622.5	34449.3	35294.6
70°	43.8	58.5	73.1	82.8	95.0	114.5	163.2	1858.6	24169.6	30615.1	31216.8
72.5°	41.4	56.0	65.8	78.0	85.3	102.3	148.6	874.5	17697.2	24525.2	26096.4
75°	36.5	51.2	60.9	73.1	80.4	92.6	126.7	419.0	11770.5	17748.4	19533.9
77.5°	21.9	41.4	56.0	65.8	70.6	80.4	104.7	241.2	7512.5	12284.5	14469.6
80°	0.0	14.6	41.4	56.0	60.9	68.2	80.4	190.0	4019.3	7018.0	8423.5
82.5°	0.0	0.0	29.2	43.8	41.4	46.3	60.9	119.4	1812.4	4586.9	5169.1
85°	0.0	0.0	9.7	34.1	29.2	21.9	41.4	41.4	397.1	2321.5	2896.4
87.5°	0.0	0.0	0.0	2.4	14.6	9.7	17.1	4.9	2.4	173.0	701.6
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: P324543  
 CATALOG NUMBER: GAN-SA9D-750-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	16749.6	16749.6	16749.6	16749.6	16749.6	16749.6	16749.6	16749.6	16749.6	16749.6
2.5°	18934.7	19115.0	19419.5	19563.2	19492.5	19192.9	18834.8	18469.4	18255.1	18340.3
5°	20099.1	21027.2	21563.1	21740.9	21443.7	20771.4	19892.0	18732.5	18320.8	18208.8
7.5°	20099.1	21845.7	22951.6	23146.5	22483.9	21166.0	19516.9	17707.0	17105.3	16886.1
10°	19392.7	21770.2	23312.1	23621.5	22695.8	20725.1	18515.7	16450.0	15736.3	15509.7
12.5°	18596.1	21156.3	22781.1	23207.4	22447.3	20286.7	17821.5	15599.9	14759.5	14562.2
15°	18106.5	20401.1	21745.8	22055.2	21733.6	20030.9	17655.8	15344.1	14355.1	14165.1
17.5°	18281.9	19816.5	20301.3	20481.5	20698.3	19940.7	18106.5	15904.4	14652.3	14472.0
20°	18942.0	19200.2	18949.3	19175.9	19760.5	20028.4	19180.7	17258.8	15755.8	15514.6
22.5°	20062.5	18881.1	18177.1	18267.2	18978.5	20318.3	20822.6	19192.9	17458.5	17156.4
25°	21368.2	19139.3	17748.4	17668.0	18398.8	20700.8	22323.1	21297.6	19473.0	19139.3
27.5°	23010.1	19719.1	17660.7	17580.3	18196.6	21058.9	23570.3	23377.9	21594.8	21024.7
30°	24276.8	20289.1	17921.3	17736.2	18398.8	21307.3	24571.5	25144.0	23285.3	22907.7
32.5°	25185.4	20961.4	18345.2	18077.2	18968.8	21736.0	25343.7	26761.4	24849.2	24276.8
35°	25877.2	21692.2	19029.7	18588.8	19753.2	22386.4	26067.2	28483.7	26513.0	25886.9
37.5°	26525.1	22717.7	20099.1	19572.9	20983.3	23433.9	26832.1	30437.3	28374.0	27626.2
40°	27428.9	23879.7	21748.2	21280.5	23051.5	24861.4	27787.0	32473.7	30490.9	29550.6
42.5°	28332.6	25126.9	23436.3	23563.0	25631.1	26595.8	29019.6	34627.1	32580.9	31577.3
45°	29158.4	26413.1	25840.6	26425.3	28025.7	28498.3	30244.8	35871.9	34249.6	33280.1
47.5°	29894.1	28020.8	28230.3	29786.9	30749.1	30220.5	31160.8	36946.2	35491.9	34636.9
50°	30749.1	30101.1	31380.0	33582.1	33884.2	31779.5	31993.9	38217.7	36943.7	36256.8
52.5°	31684.5	32293.5	34868.3	36809.8	36712.3	33472.5	32831.8	39642.8	38933.9	38288.4
55°	32746.6	34064.4	37940.0	39830.3	39747.5	35362.8	34220.3	41404.0	41428.3	40843.7
57.5°	34322.6	35589.3	40025.2	42273.6	42412.5	37545.4	36573.5	43377.1	43684.0	43294.3
59°	35452.9	36578.3	40851.0	43294.3	43859.4	39233.5	38293.3	44522.0	44319.8	43964.2
60°	36290.9	37206.8	41260.2	43827.7	44699.8	40378.4	39562.4	45194.3	44395.3	43964.2
62.5°	38363.9	38575.8	41998.3	44431.9	45666.9	42921.6	43133.5	46339.2	43871.6	43167.6
65°	39331.0	39440.6	41988.6	43350.3	44731.5	44902.0	46373.3	46373.3	42592.7	41511.2
67.5°	38926.6	38398.0	39905.9	39764.6	41143.3	43725.4	47591.3	44673.0	40147.0	38748.8
70°	35638.1	33604.0	32934.1	32995.0	34049.8	38032.6	45179.7	39669.6	35518.7	33884.2
72.5°	29652.9	24773.7	23119.7	25007.5	25282.8	29229.1	38502.7	29874.6	26193.9	24661.6
75°	23850.5	17463.4	14774.1	16766.7	17234.4	21390.1	29784.5	18605.8	15300.2	14106.6
77.5°	17134.5	12535.4	10601.3	10462.4	11066.6	13565.8	21134.4	9363.8	7809.7	7288.4
80°	9734.1	8250.6	8883.9	8382.1	8686.6	8482.0	10041.0	4107.0	3364.1	3144.8
82.5°	5875.5	4876.8	5281.2	4396.9	5563.7	4845.1	3868.3	1315.4	1142.5	1086.4
85°	3822.0	2664.9	1388.5	930.5	1917.1	3096.1	864.8	358.1	275.3	219.2
87.5°	1317.9	679.6	68.2	29.2	204.6	577.3	31.7	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

(END OF REPORT)