

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: P324499

Luminaire Tested: **GAN-SA5D-740-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324499  
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-SA5D-740-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 28748 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

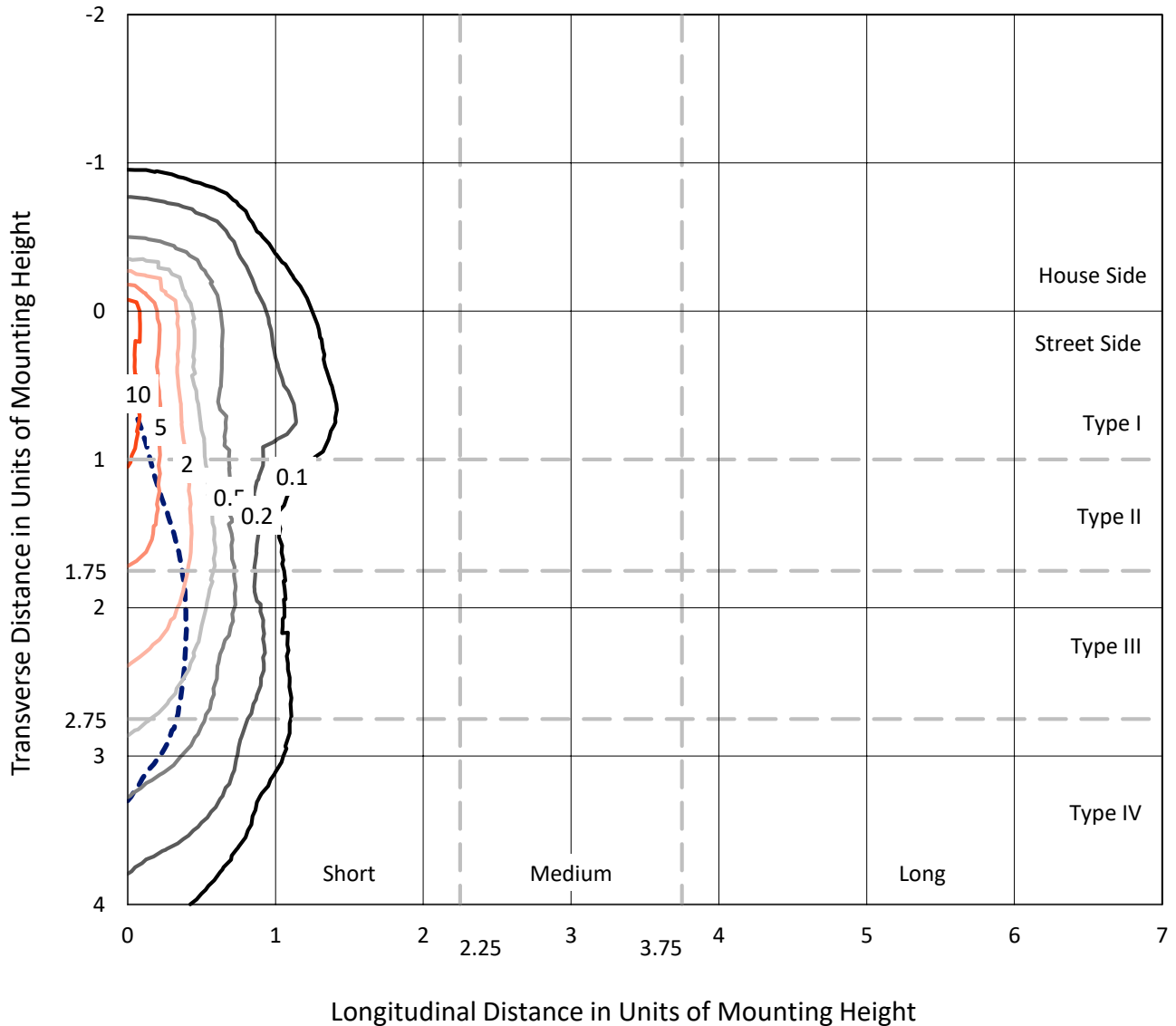
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

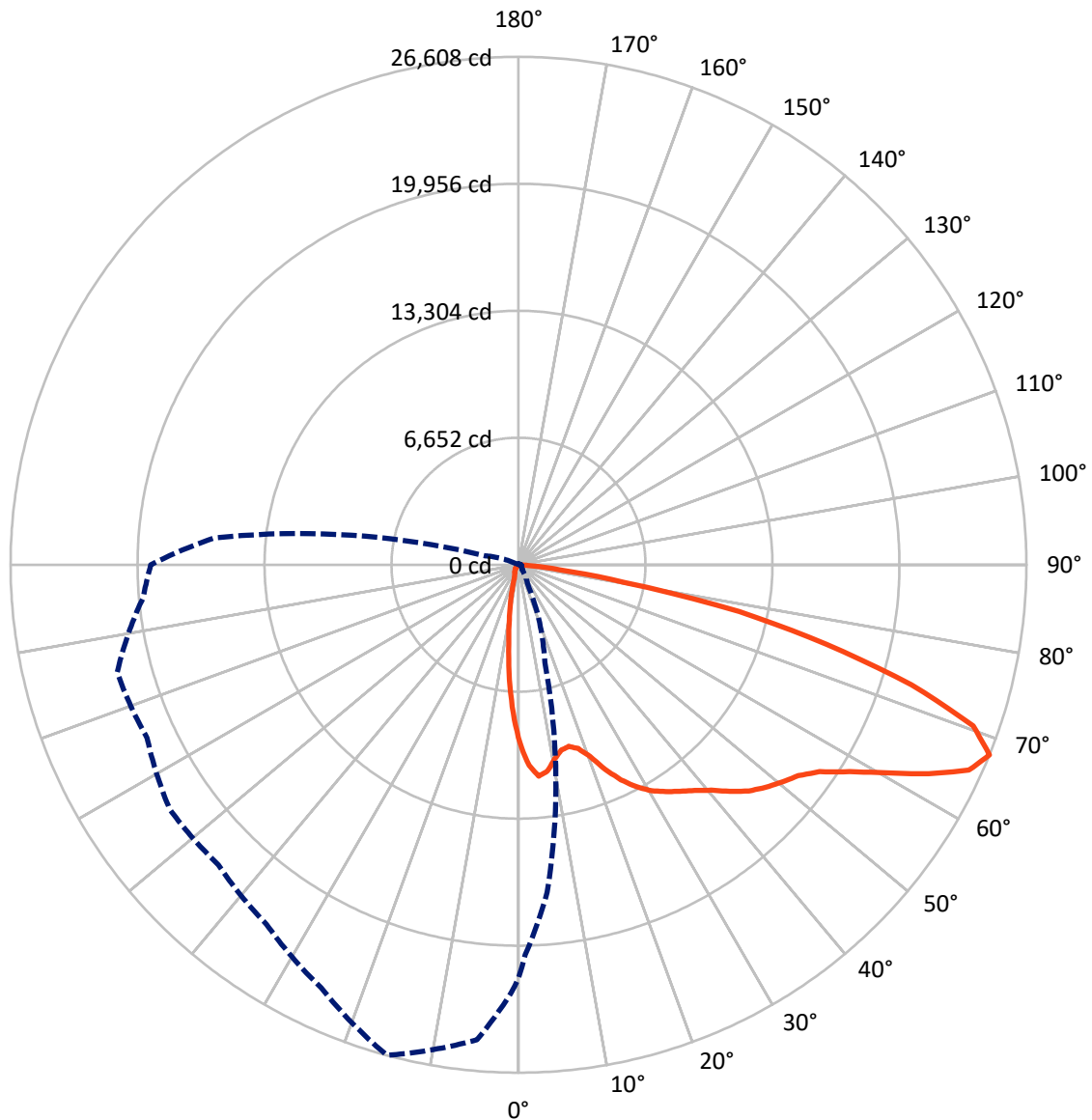
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 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	3479.5	0.0	3479.5
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	25268.5	0.0	25268.5
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	28748.0	0.0	28748.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	718.7	2.5
10°-20°	1430.6	5.0
20°-30°	2031.5	7.1
30°-40°	3000.6	10.4
40°-50°	4327.5	15.1
50°-60°	6074.9	21.1
60°-70°	7081.6	24.6
70°-80°	3620.2	12.6
80°-90°	462.3	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°	28748.0	100.0
0°-180°	28748.0	100.0

**Coefficient of Utilization**

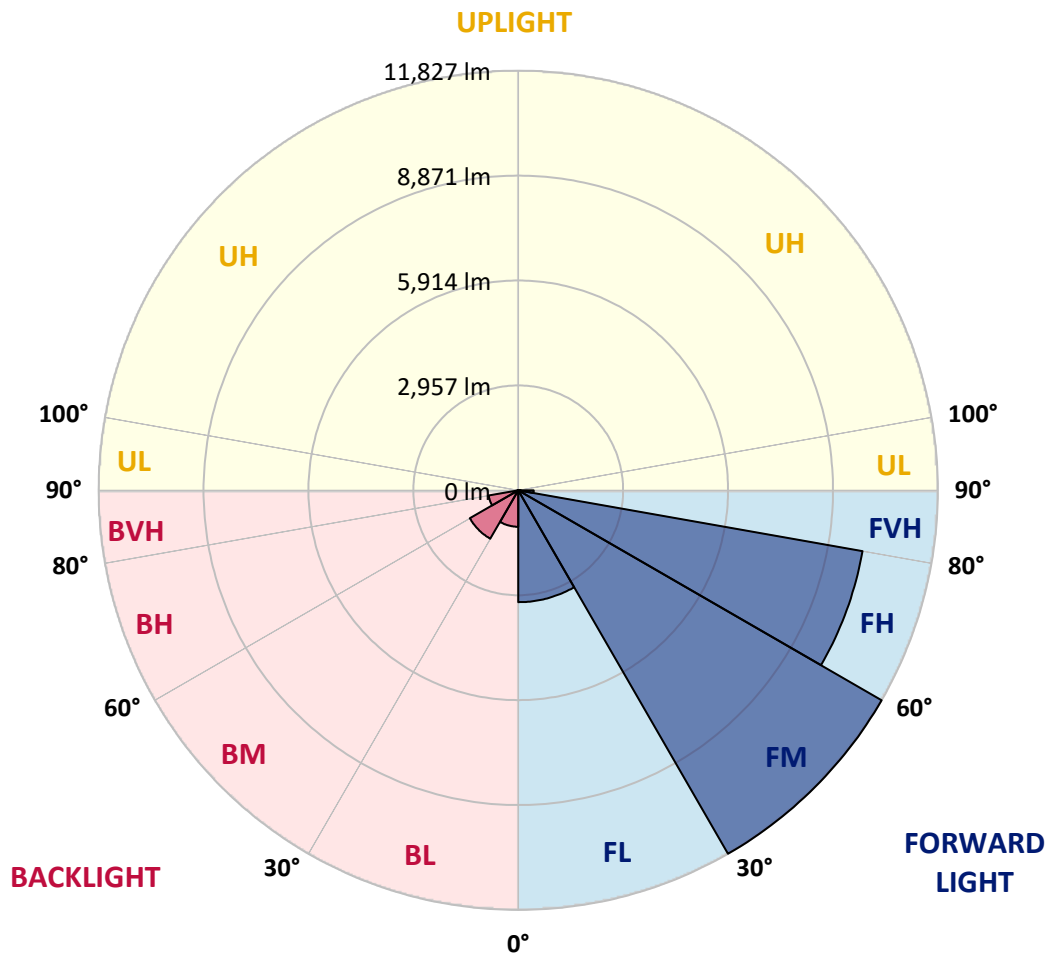


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3153.1	11.0			
FM (30°-60°)	11827.4	41.1			
FH (60°-80°)	9853.8	34.3			G4/12000
FVH (80°-90°)	434.3	1.5			G3/500
BL (0°-30°)	1027.7	3.6	B3/2500		
BM (30°-60°)	1575.6	5.5	B2/2500		
BH (60°-80°)	848.0	2.9	B2/1000		G2/1000
BVH (80°-90°)	28.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9364.6	9364.6	9364.6	9364.6	9364.6	9364.6	9364.6	9364.6	9364.6	9364.6	9364.6
2.5°	10253.9	10175.0	10087.8	9803.1	9538.9	9236.6	8990.1	8818.5	8603.3	8324.1	8253.3
5°	10180.4	10096.0	9822.2	9188.9	8634.6	8095.3	7575.0	7270.0	6891.3	6507.3	6412.0
7.5°	9440.9	9352.4	8957.4	8089.8	7343.5	6564.5	5889.0	5470.9	5043.2	4691.8	4505.3
10°	8671.4	8574.7	8130.7	7077.9	6158.6	5454.5	4958.8	4559.7	4155.2	3779.3	3479.7
12.5°	8141.6	8014.9	7532.8	6339.8	5539.0	5060.9	4597.9	4119.8	3572.3	3169.2	2839.6
15°	7919.6	7775.2	7265.9	6055.1	5319.7	4758.6	4155.2	3568.2	2926.8	2465.1	2162.7
17.5°	8091.2	7903.3	7357.1	6036.1	5044.6	4280.5	3517.9	2828.7	2132.8	1665.6	1450.5
20°	8674.1	8427.6	7734.4	6030.6	4710.9	3712.6	2745.6	1966.6	1405.5	1130.4	1017.4
22.5°	9592.0	9266.5	8276.4	6074.2	4366.3	3116.1	1983.0	1336.1	1055.5	912.5	845.8
25°	10700.7	10323.4	9056.8	6228.1	4064.0	2535.9	1440.9	1055.5	890.7	785.8	730.0
27.5°	11754.8	11448.4	10042.8	6450.1	3829.7	2067.4	1169.9	894.8	761.3	691.9	646.9
30°	12807.6	12422.1	11054.8	6714.3	3547.8	1750.1	1028.3	815.8	682.3	608.8	580.2
32.5°	13573.0	13252.9	11847.4	6905.0	3246.8	1543.1	919.3	746.3	637.4	562.5	520.3
35°	14473.2	14110.9	12527.0	6947.2	3053.4	1412.3	826.7	671.4	552.9	486.2	441.3
37.5°	15445.6	14994.8	13311.5	6854.6	2902.3	1348.3	757.2	637.4	516.2	448.1	400.4
40°	16521.5	16012.2	14064.6	6721.1	2753.8	1326.5	704.1	611.5	487.6	418.1	369.1
42.5°	17654.7	17054.0	14717.0	6580.8	2659.8	1251.6	698.7	585.6	465.8	390.9	341.8
45°	18606.6	17997.9	15387.0	6534.5	2593.1	1169.9	721.8	567.9	450.8	369.1	321.4
47.5°	19365.2	18789.1	16073.5	6638.0	2555.0	1095.0	657.8	591.1	442.6	350.0	303.7
50°	20270.9	19618.6	17040.4	6947.2	2499.1	1020.1	595.2	676.9	442.6	337.8	288.7
52.5°	21406.8	20761.2	18119.1	7426.6	2387.5	916.6	535.2	678.2	446.7	321.4	269.7
55°	22835.4	22366.9	19659.4	7952.3	2209.0	764.0	463.1	582.9	430.4	291.5	252.0
57.5°	24205.5	23822.8	21063.6	8311.8	1970.7	596.5	403.1	469.9	393.6	256.0	224.7
59°	24580.1	24161.9	21578.4	8328.2	1792.3	520.3	373.2	388.1	385.4	239.7	208.4
60°	24580.1	24136.1	21726.8	8241.0	1662.9	478.0	354.1	345.9	401.8	228.8	198.8
62.5°	24134.7	23510.9	21244.7	7651.3	1356.5	407.2	309.2	286.0	360.9	205.7	175.7
65°	23208.6	22300.2	19602.2	6584.9	1209.4	373.2	266.9	234.3	250.6	181.1	153.9
67.5°	21664.2	20433.0	17233.8	5319.7	1150.8	363.6	230.2	198.8	189.3	155.3	134.8
70°	18944.4	17578.4	14358.8	4182.5	1100.4	359.5	193.4	167.5	152.5	130.7	114.4
72.5°	13788.1	12363.6	10194.0	3270.0	1070.5	367.7	155.3	140.3	125.3	102.1	88.5
75°	7886.9	6954.0	5729.6	2160.0	912.5	351.4	119.8	117.1	89.9	73.5	61.3
77.5°	4074.9	3950.9	3433.4	829.4	437.2	153.9	79.0	68.1	53.1	44.9	36.8
80°	1758.2	1739.2	1504.9	239.7	115.8	85.8	44.9	28.6	24.5	19.1	15.0
82.5°	607.4	607.4	535.2	80.4	51.8	42.2	5.4	0.0	0.0	0.0	0.0
85°	122.6	137.6	96.7	0.0	17.7	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°	9364.6	9364.6	9364.6	9364.6	9364.6	9364.6	9364.6	9364.6	9364.6	9364.6	9364.6
2.5°	8167.5	8002.7	7991.8	7888.3	7758.9	7700.3	7666.3	7726.2	7799.8	7807.9	7918.2
5°	6339.8	6166.8	6239.0	6055.1	6091.9	6055.1	5995.2	6006.1	6038.8	5936.6	6063.3
7.5°	4452.1	4321.4	4404.5	4355.4	4420.8	4446.7	4409.9	4355.4	4194.7	4175.7	4286.0
10°	3355.8	3207.3	3118.8	3026.2	3046.6	3088.8	3075.2	3035.7	2933.6	2939.0	3045.3
12.5°	2696.6	2530.5	2354.8	2127.3	2071.5	2102.8	2071.5	2048.3	1950.3	1958.5	2052.4
15°	2045.6	1909.4	1725.6	1543.1	1443.6	1453.2	1366.0	1304.7	1243.4	1169.9	1227.1
17.5°	1381.0	1297.9	1243.4	1189.0	1070.5	1043.2	932.9	814.4	768.1	734.1	758.6
20°	977.9	932.9	911.1	908.4	840.3	806.3	698.7	625.1	602.0	595.2	610.1
22.5°	817.2	784.5	753.1	735.4	701.4	661.9	580.2	543.4	527.1	518.9	529.8
25°	710.9	686.4	653.7	623.8	610.1	567.9	509.4	482.1	471.2	463.1	468.5
27.5°	631.9	610.1	572.0	552.9	542.0	505.3	454.9	433.1	423.6	420.8	419.5
30°	569.3	548.9	513.4	491.7	472.6	439.9	409.9	388.1	378.6	375.9	373.2
32.5°	506.6	490.3	467.1	445.4	424.9	395.0	369.1	351.4	336.4	333.7	332.3
35°	427.6	411.3	399.0	397.7	378.6	350.0	330.9	307.8	295.5	291.5	292.8
37.5°	380.0	358.2	330.9	340.5	335.0	314.6	288.7	265.6	253.3	250.6	250.6
40°	350.0	326.9	295.5	279.2	295.5	291.5	250.6	227.4	215.2	213.8	211.1
42.5°	321.4	298.3	262.9	235.6	243.8	256.0	216.5	194.8	182.5	179.8	175.7
45°	301.0	276.5	237.0	205.7	189.3	215.2	185.2	158.0	151.2	145.7	143.0
47.5°	281.9	258.8	213.8	178.4	151.2	155.3	148.5	129.4	121.2	115.8	114.4
50°	265.6	241.1	193.4	152.5	125.3	114.4	119.8	102.1	95.3	89.9	87.2
52.5°	246.5	223.4	171.6	132.1	104.9	89.9	91.2	80.4	73.5	69.5	68.1
55°	231.5	208.4	153.9	115.8	92.6	73.5	65.4	62.6	58.6	55.8	54.5
57.5°	211.1	189.3	136.2	98.1	79.0	59.9	50.4	50.4	49.0	46.3	44.9
59°	198.8	179.8	125.3	88.5	72.2	51.8	44.9	46.3	44.9	42.2	40.9
60°	189.3	171.6	117.1	81.7	68.1	47.7	40.9	43.6	42.2	39.5	38.1
62.5°	167.5	155.3	100.8	68.1	59.9	38.1	34.0	36.8	36.8	35.4	34.0
65°	147.1	133.5	85.8	57.2	55.8	32.7	27.2	32.7	34.0	31.3	28.6
67.5°	128.0	114.4	74.9	46.3	51.8	25.9	20.4	27.2	36.8	28.6	25.9
70°	109.0	95.3	58.6	36.8	54.5	17.7	16.3	24.5	43.6	31.3	24.5
72.5°	84.4	73.5	40.9	27.2	58.6	12.3	12.3	20.4	49.0	34.0	23.2
75°	58.6	47.7	24.5	16.3	47.7	8.2	8.2	19.1	46.3	31.3	21.8
77.5°	34.0	25.9	8.2	1.4	24.5	0.0	1.4	13.6	32.7	19.1	9.5
80°	12.3	5.4	0.0	0.0	15.0	0.0	0.0	0.0	2.7	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°	9364.6	9364.6	9364.6	9364.6	9364.6	9364.6	9364.6	9364.6	9364.6	9364.6	9364.6
2.5°	7946.8	8130.7	8295.5	8544.7	8840.3	9180.7	9473.6	9788.2	10083.7	10206.3	10290.7
5°	6089.2	6316.6	6582.2	6948.5	7436.1	8036.7	8599.2	9235.2	9918.9	10260.8	10582.2
7.5°	4305.1	4536.6	4866.2	5255.7	5845.4	6560.4	7295.8	8174.3	9100.4	9641.1	10173.6
10°	3095.7	3380.3	3688.1	4220.6	4819.9	5498.1	6255.3	7235.9	8268.3	8867.5	9509.0
12.5°	2106.9	2431.0	2896.8	3493.3	4197.5	4862.1	5519.9	6455.5	7654.0	8247.8	8935.6
15°	1263.9	1443.6	1936.7	2627.2	3490.6	4318.7	5039.1	5977.5	7255.0	7982.3	8697.3
17.5°	779.0	862.1	1130.4	1697.0	2604.0	3651.3	4638.7	5815.4	7312.2	8197.4	8962.8
20°	621.0	653.7	739.5	1002.4	1725.6	2915.9	4187.9	5782.7	7779.3	8868.9	9690.1
22.5°	539.3	570.6	627.8	728.6	1085.5	2183.2	3760.3	5812.7	8449.4	9875.3	10834.1
25°	475.3	502.6	557.0	640.1	795.4	1537.6	3302.7	5946.2	9322.4	11124.2	12142.9
27.5°	424.9	448.1	498.5	574.7	682.3	1073.2	2783.8	6108.2	10357.5	12401.7	13406.8
30°	378.6	399.0	444.0	514.8	592.4	825.3	2214.5	6218.6	11393.9	13406.8	14309.8
32.5°	339.1	354.1	395.0	454.9	514.8	657.8	1683.3	6200.9	12163.4	14243.0	14959.4
35°	298.3	313.2	348.7	400.4	448.1	543.4	1323.8	5869.9	12833.4	15110.6	15703.0
37.5°	253.3	272.4	306.4	352.7	385.4	478.0	1070.5	5470.9	13513.0	16102.1	16532.4
40°	215.2	234.3	264.2	314.6	335.0	453.5	822.6	4984.7	14277.1	17210.7	17442.2
42.5°	178.4	196.1	227.4	271.0	316.0	390.9	608.8	4429.0	15011.2	18158.6	18271.6
45°	144.4	162.1	194.8	238.3	337.8	324.1	471.2	3833.8	15603.6	18947.1	18983.9
47.5°	114.4	130.7	164.8	224.7	314.6	258.8	336.4	3366.7	16100.7	19562.7	19466.0
50°	88.5	102.1	137.6	257.4	275.1	213.8	254.7	3211.4	16546.0	19944.1	19693.5
52.5°	69.5	81.7	113.0	241.1	213.8	177.1	213.8	3357.1	17156.2	20260.0	19821.5
55°	55.8	68.1	88.5	137.6	145.7	149.8	182.5	3493.3	18209.0	21000.9	20577.3
57.5°	46.3	58.6	72.2	96.7	110.3	126.7	162.1	3508.3	19449.7	22232.1	21831.7
59°	42.2	53.1	65.4	85.8	96.7	115.8	152.5	3426.6	19886.9	22680.2	22480.0
60°	39.5	50.4	61.3	79.0	89.9	109.0	147.1	3349.0	19905.9	22663.8	22756.4
62.5°	34.0	44.9	54.5	66.7	76.3	92.6	132.1	3061.6	19099.7	21921.6	22590.3
65°	30.0	39.5	49.0	57.2	65.4	83.1	119.8	2537.3	17722.8	20724.4	21453.1
67.5°	27.2	34.0	44.9	50.4	58.6	73.5	106.2	1808.6	16002.6	19260.4	19733.0
70°	24.5	32.7	40.9	46.3	53.1	64.0	91.2	1039.2	13513.0	17116.7	17453.1
72.5°	23.2	31.3	36.8	43.6	47.7	57.2	83.1	488.9	9894.4	13711.9	14590.3
75°	20.4	28.6	34.0	40.9	44.9	51.8	70.8	234.3	6580.8	9923.0	10921.3
77.5°	12.3	23.2	31.3	36.8	39.5	44.9	58.6	134.8	4200.2	6868.2	8089.8
80°	0.0	8.2	23.2	31.3	34.0	38.1	44.9	106.2	2247.2	3923.7	4709.5
82.5°	0.0	0.0	16.3	24.5	23.2	25.9	34.0	66.7	1013.3	2564.5	2890.0
85°	0.0	0.0	5.4	19.1	16.3	12.3	23.2	23.2	222.0	1297.9	1619.3
87.5°	0.0	0.0	0.0	1.4	8.2	5.4	9.5	2.7	1.4	96.7	392.2
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: P324499  
 CATALOG NUMBER: GAN-SA5D-740-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9364.6	9364.6	9364.6	9364.6	9364.6	9364.6	9364.6	9364.6	9364.6	9364.6
2.5°	10586.3	10687.0	10857.3	10937.6	10898.1	10730.6	10530.4	10326.1	10206.3	10253.9
5°	11237.3	11756.2	12055.8	12155.2	11989.0	11613.1	11121.5	10473.2	10243.1	10180.4
7.5°	11237.3	12213.8	12832.1	12941.0	12570.6	11833.8	10911.8	9899.8	9563.4	9440.9
10°	10842.3	12171.5	13033.6	13206.6	12689.1	11587.3	10352.0	9197.1	8798.0	8671.4
12.5°	10396.9	11828.3	12736.7	12975.1	12550.2	11342.1	9963.9	8721.8	8251.9	8141.6
15°	10123.2	11406.1	12157.9	12330.9	12151.1	11199.1	9871.2	8578.8	8025.8	7919.6
17.5°	10221.3	11079.3	11350.3	11451.1	11572.3	11148.7	10123.2	8892.0	8192.0	8091.2
20°	10590.3	10734.7	10594.4	10721.1	11047.9	11197.8	10723.8	9649.3	8808.9	8674.1
22.5°	11216.8	10556.3	10162.7	10213.1	10610.8	11359.8	11641.7	10730.6	9760.9	9592.0
25°	11946.8	10700.7	9923.0	9878.1	10286.6	11573.7	12480.7	11907.3	10887.2	10700.7
27.5°	12864.8	11024.8	9874.0	9829.0	10173.6	11773.9	13178.0	13070.4	12073.5	11754.8
30°	13573.0	11343.5	10019.7	9916.2	10286.6	11912.8	13737.8	14057.8	13018.7	12807.6
32.5°	14081.0	11719.4	10256.7	10106.9	10605.3	12152.5	14169.5	14962.1	13893.0	13573.0
35°	14467.7	12128.0	10639.4	10392.9	11043.9	12516.1	14574.0	15925.0	14823.2	14473.2
37.5°	14830.0	12701.3	11237.3	10943.1	11731.6	13101.7	15001.6	17017.3	15863.7	15445.6
40°	15335.3	13351.0	12159.3	11897.8	12887.9	13899.8	15535.5	18155.8	17047.2	16521.5
42.5°	15840.6	14048.3	13103.1	13173.9	14330.2	14869.5	16224.6	19359.8	18215.8	17654.7
45°	16302.3	14767.4	14447.3	14774.2	15669.0	15933.2	16909.7	20055.7	19148.7	18606.6
47.5°	16713.6	15666.2	15783.4	16653.6	17191.6	16896.1	17421.8	20656.3	19843.3	19365.2
50°	17191.6	16829.3	17544.3	18775.5	18944.4	17767.7	17887.5	21367.3	20655.0	20270.9
52.5°	17714.6	18055.1	19494.6	20580.1	20525.6	18714.2	18356.0	22164.0	21767.7	21406.8
55°	18308.4	19045.2	21212.0	22268.9	22222.6	19771.1	19132.3	23148.7	23162.3	22835.4
57.5°	19189.5	19897.7	22377.8	23634.9	23712.5	20991.4	20448.0	24251.8	24423.4	24205.5
59°	19821.5	20450.7	22839.5	24205.5	24521.5	21935.2	21409.5	24891.9	24778.9	24580.1
60°	20290.0	20802.1	23068.3	24503.8	24991.4	22575.3	22119.1	25267.8	24821.1	24580.1
62.5°	21449.0	21567.5	23481.0	24841.5	25532.0	23997.1	24115.6	25907.9	24528.3	24134.7
65°	21989.7	22051.0	23475.5	24236.8	25009.1	25104.4	25927.0	25927.0	23813.3	23208.6
67.5°	21763.6	21468.0	22311.1	22232.1	23002.9	24446.6	26608.0	24976.4	22445.9	21664.2
70°	19925.0	18787.8	18413.2	18447.3	19037.0	21263.8	25259.7	22179.0	19858.3	18944.4
72.5°	16578.7	13850.8	12926.0	13981.5	14135.4	16341.8	21526.6	16702.7	14644.8	13788.1
75°	13334.6	9763.7	8260.1	9374.1	9635.6	11959.1	16652.3	10402.4	8554.3	7886.9
77.5°	9579.8	7008.5	5927.1	5849.5	6187.2	7584.6	11816.1	5235.2	4366.3	4074.9
80°	5442.3	4612.8	4966.9	4686.4	4856.6	4742.2	5613.9	2296.2	1880.8	1758.2
82.5°	3285.0	2726.6	2952.7	2458.3	3110.6	2708.9	2162.7	735.4	638.7	607.4
85°	2136.9	1489.9	776.3	520.3	1071.8	1731.0	483.5	200.2	153.9	122.6
87.5°	736.8	380.0	38.1	16.3	114.4	322.8	17.7	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)