

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: P324456

Luminaire Tested: **GAN-SA2D-730-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324456  
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-SA2D-730-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 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: 10718 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

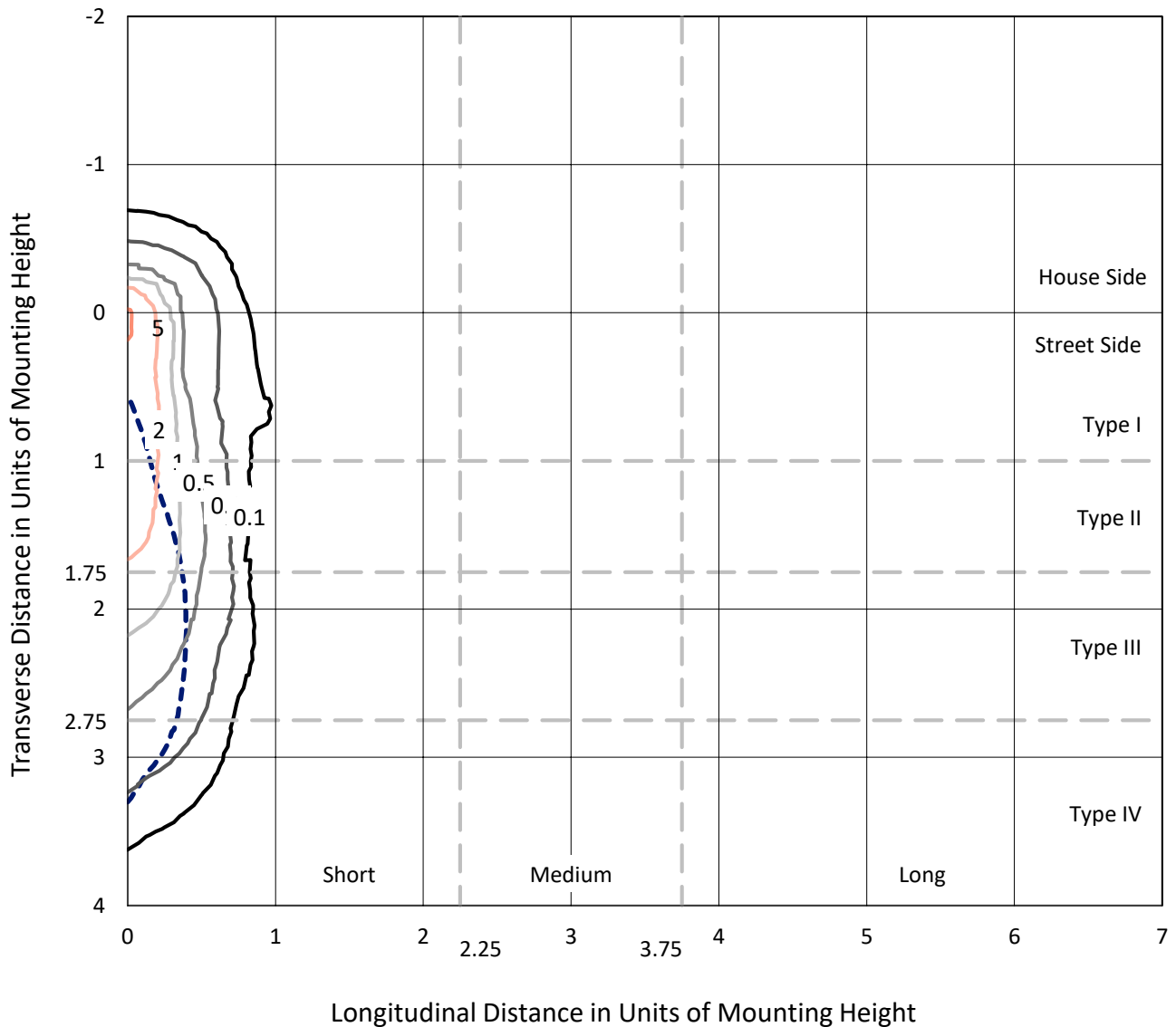
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

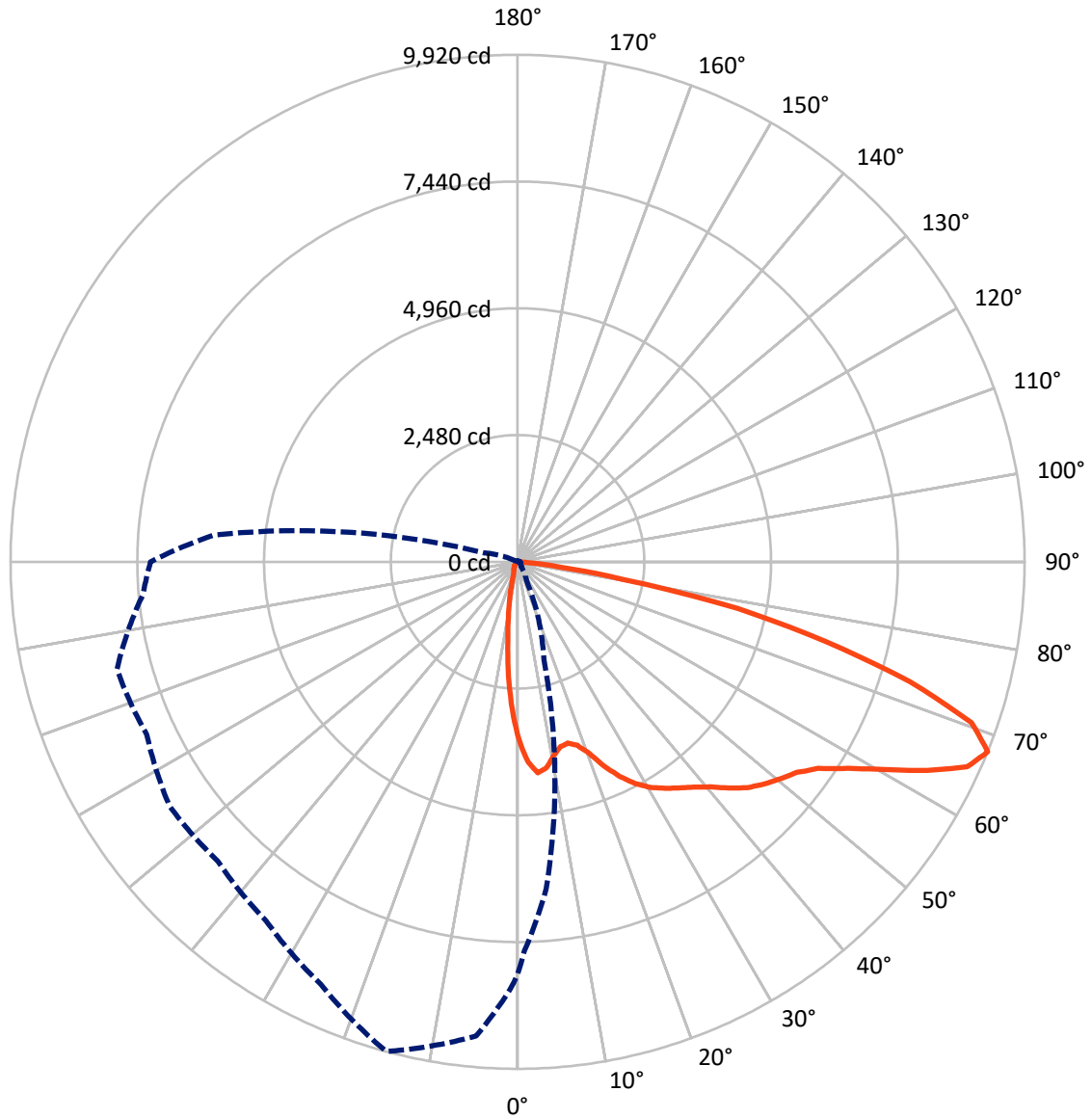
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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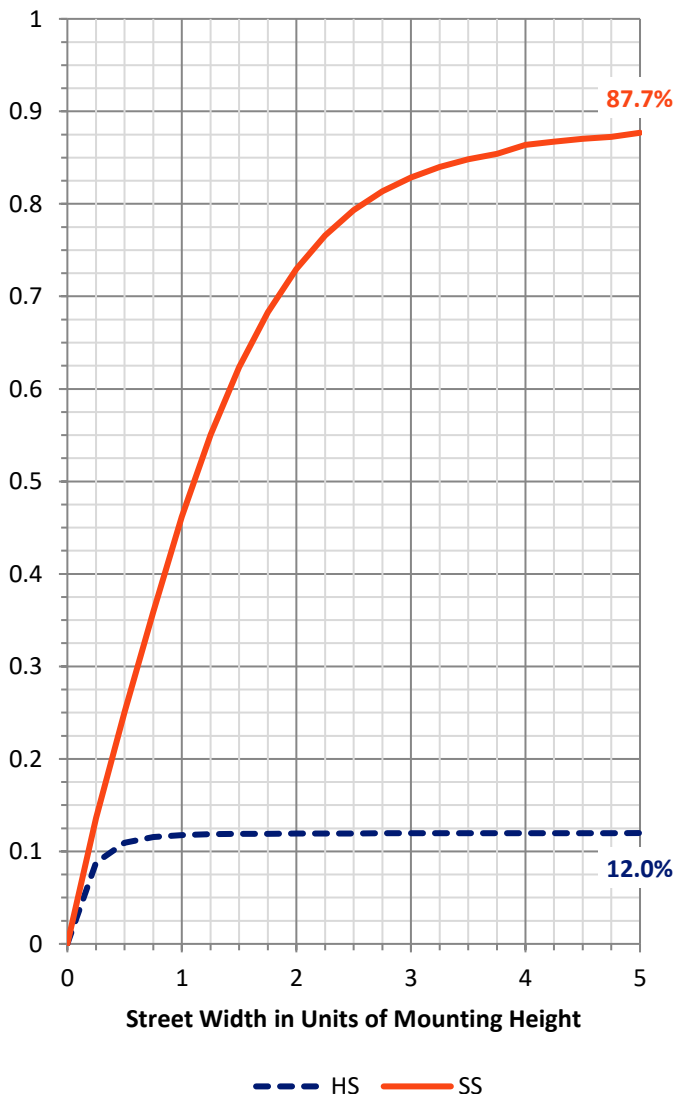
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1297.2	0.0	1297.2
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	9420.8	0.0	9420.8
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	10718.0	0.0	10718.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.0	2.5
10°-20°	533.4	5.0
20°-30°	757.4	7.1
30°-40°	1118.7	10.4
40°-50°	1613.4	15.1
50°-60°	2264.9	21.1
60°-70°	2640.2	24.6
70°-80°	1349.7	12.6
80°-90°	172.4	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°	10718.0	100.0
0°-180°	10718.0	100.0

**Coefficient of Utilization**

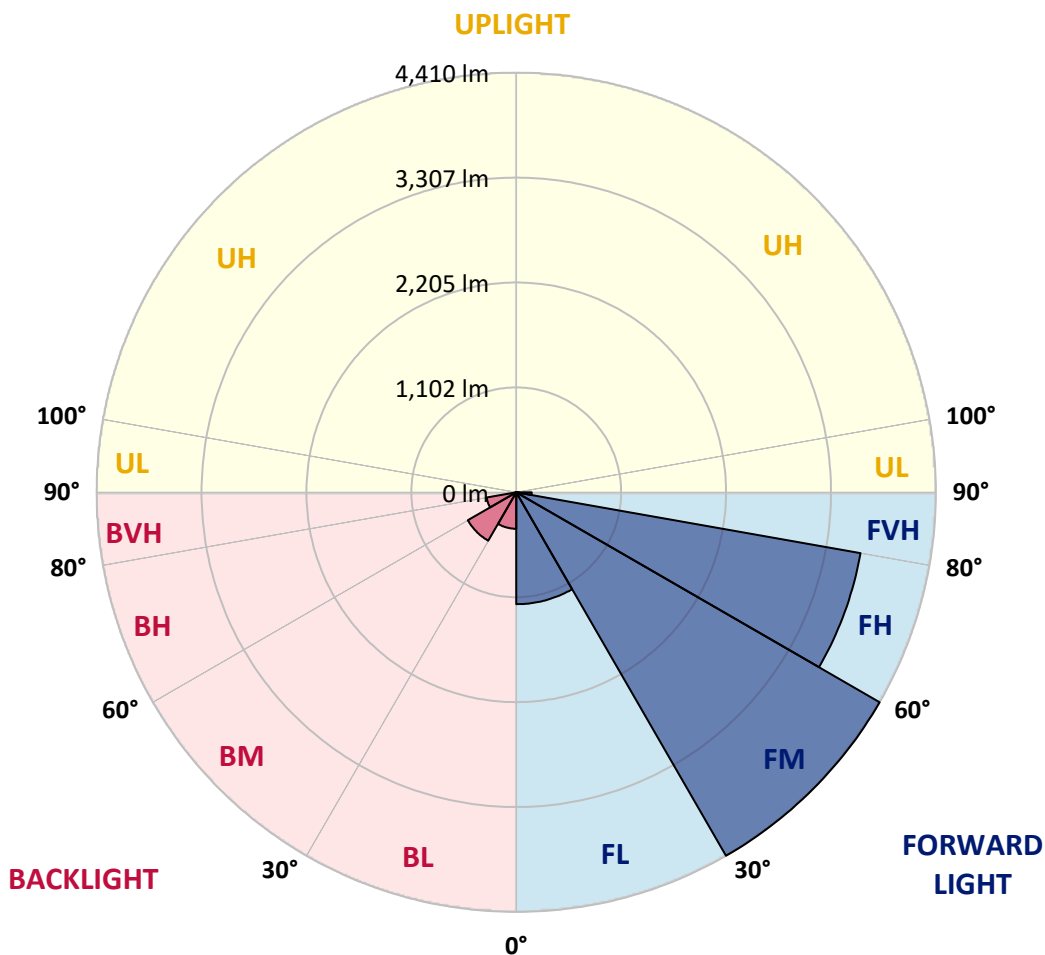


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1175.6	11.0			
FM (30°-60°)	4409.6	41.1			
FH (60°-80°)	3673.8	34.3			G2/5000
FVH (80°-90°)	161.9	1.5			G2/225
BL (0°-30°)	383.2	3.6	B1/500		
BM (30°-60°)	587.4	5.5	B1/1000		
BH (60°-80°)	316.2	2.9	B1/500		G1/500
BVH (80°-90°)	10.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3491.4	3491.4	3491.4	3491.4	3491.4	3491.4	3491.4	3491.4	3491.4	3491.4	3491.4
2.5°	3822.9	3793.5	3761.0	3654.9	3556.4	3443.6	3351.7	3287.8	3207.5	3103.4	3077.0
5°	3795.5	3764.0	3662.0	3425.9	3219.2	3018.1	2824.2	2710.4	2569.3	2426.1	2390.5
7.5°	3519.8	3486.8	3339.5	3016.1	2737.9	2447.4	2195.6	2039.7	1880.2	1749.2	1679.7
10°	3232.9	3196.9	3031.3	2638.8	2296.1	2033.6	1848.8	1700.0	1549.2	1409.0	1297.3
12.5°	3035.4	2988.2	2808.4	2363.6	2065.1	1886.8	1714.2	1536.0	1331.9	1181.6	1058.7
15°	2952.6	2898.8	2708.9	2257.5	1983.3	1774.1	1549.2	1330.3	1091.2	919.0	806.3
17.5°	3016.6	2946.5	2742.9	2250.4	1880.7	1595.9	1311.5	1054.6	795.2	621.0	540.8
20°	3233.9	3142.0	2883.6	2248.4	1756.3	1384.2	1023.6	733.2	524.0	421.4	379.3
22.5°	3576.2	3454.8	3085.7	2264.6	1627.9	1161.8	739.3	498.1	393.5	340.2	315.3
25°	3989.5	3848.8	3376.6	2322.0	1515.2	945.5	537.2	393.5	332.1	293.0	272.2
27.5°	4382.5	4268.2	3744.2	2404.8	1427.8	770.8	436.2	333.6	283.8	257.9	241.2
30°	4775.0	4631.3	4121.5	2503.3	1322.7	652.5	383.4	304.1	254.4	227.0	216.3
32.5°	5060.4	4941.0	4417.0	2574.4	1210.5	575.3	342.7	278.3	237.6	209.7	194.0
35°	5396.0	5260.9	4670.4	2590.1	1138.4	526.5	308.2	250.3	206.2	181.3	164.5
37.5°	5758.5	5590.5	4962.9	2555.6	1082.0	502.7	282.3	237.6	192.4	167.1	149.3
40°	6159.7	5969.8	5243.7	2505.8	1026.7	494.6	262.5	228.0	181.8	155.9	137.6
42.5°	6582.1	6358.2	5486.9	2453.5	991.7	466.6	260.5	218.3	173.7	145.7	127.4
45°	6937.0	6710.1	5736.7	2436.2	966.8	436.2	269.1	211.7	168.1	137.6	119.8
47.5°	7219.9	7005.1	5992.6	2474.8	952.6	408.2	245.2	220.4	165.0	130.5	113.2
50°	7557.5	7314.3	6353.1	2590.1	931.7	380.3	221.9	252.4	165.0	125.9	107.6
52.5°	7981.0	7740.3	6755.3	2768.8	890.1	341.7	199.6	252.9	166.5	119.8	100.5
55°	8513.6	8339.0	7329.5	2964.8	823.6	284.9	172.6	217.3	160.5	108.7	93.9
57.5°	9024.4	8881.8	7853.0	3098.9	734.7	222.4	150.3	175.2	146.7	95.5	83.8
59°	9164.1	9008.2	8045.0	3105.0	668.2	194.0	139.1	144.7	143.7	89.4	77.7
60°	9164.1	8998.6	8100.3	3072.5	620.0	178.2	132.0	129.0	149.8	85.3	74.1
62.5°	8998.0	8765.5	7920.6	2852.6	505.7	151.8	115.3	106.6	134.6	76.7	65.5
65°	8652.8	8314.1	7308.2	2455.0	450.9	139.1	99.5	87.3	93.4	67.5	57.4
67.5°	8077.0	7617.9	6425.2	1983.3	429.1	135.6	85.8	74.1	70.6	57.9	50.3
70°	7063.0	6553.7	5353.3	1559.3	410.3	134.0	72.1	62.5	56.9	48.7	42.7
72.5°	5140.6	4609.5	3800.6	1219.1	399.1	137.1	57.9	52.3	46.7	38.1	33.0
75°	2940.4	2592.6	2136.2	805.3	340.2	131.0	44.7	43.7	33.5	27.4	22.8
77.5°	1519.2	1473.0	1280.1	309.2	163.0	57.4	29.5	25.4	19.8	16.8	13.7
80°	655.5	648.4	561.1	89.4	43.2	32.0	16.8	10.7	9.1	7.1	5.6
82.5°	226.5	226.5	199.6	30.0	19.3	15.7	2.0	0.0	0.0	0.0	0.0
85°	45.7	51.3	36.1	0.0	6.6	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°	3491.4	3491.4	3491.4	3491.4	3491.4	3491.4	3491.4	3491.4	3491.4	3491.4	3491.4
2.5°	3045.0	2983.6	2979.5	2941.0	2892.7	2870.9	2858.2	2880.5	2908.0	2911.0	2952.1
5°	2363.6	2299.1	2326.1	2257.5	2271.2	2257.5	2235.2	2239.2	2251.4	2213.3	2260.6
7.5°	1659.9	1611.1	1642.1	1623.8	1648.2	1657.8	1644.1	1623.8	1563.9	1556.8	1597.9
10°	1251.1	1195.8	1162.8	1128.2	1135.9	1151.6	1146.5	1131.8	1093.7	1095.7	1135.4
12.5°	1005.4	943.4	877.9	793.1	772.3	784.0	772.3	763.7	727.1	730.2	765.2
15°	762.7	711.9	643.3	575.3	538.2	541.8	509.3	486.4	463.6	436.2	457.5
17.5°	514.9	483.9	463.6	443.3	399.1	388.9	347.8	303.6	286.4	273.7	282.8
20°	364.6	347.8	339.7	338.7	313.3	300.6	260.5	233.1	224.4	221.9	227.5
22.5°	304.7	292.5	280.8	274.2	261.5	246.8	216.3	202.6	196.5	193.5	197.5
25°	265.1	255.9	243.7	232.6	227.5	211.7	189.9	179.7	175.7	172.6	174.7
27.5°	235.6	227.5	213.3	206.2	202.1	188.4	169.6	161.5	157.9	156.9	156.4
30°	212.2	204.6	191.4	183.3	176.2	164.0	152.8	144.7	141.2	140.1	139.1
32.5°	188.9	182.8	174.2	166.0	158.4	147.3	137.6	131.0	125.4	124.4	123.9
35°	159.4	153.3	148.8	148.3	141.2	130.5	123.4	114.8	110.2	108.7	109.2
37.5°	141.7	133.5	123.4	126.9	124.9	117.3	107.6	99.0	94.4	93.4	93.4
40°	130.5	121.9	110.2	104.1	110.2	108.7	93.4	84.8	80.2	79.7	78.7
42.5°	119.8	111.2	98.0	87.8	90.9	95.5	80.7	72.6	68.0	67.0	65.5
45°	112.2	103.1	88.4	76.7	70.6	80.2	69.1	58.9	56.4	54.3	53.3
47.5°	105.1	96.5	79.7	66.5	56.4	57.9	55.3	48.2	45.2	43.2	42.7
50°	99.0	89.9	72.1	56.9	46.7	42.7	44.7	38.1	35.5	33.5	32.5
52.5°	91.9	83.3	64.0	49.3	39.1	33.5	34.0	30.0	27.4	25.9	25.4
55°	86.3	77.7	57.4	43.2	34.5	27.4	24.4	23.4	21.8	20.8	20.3
57.5°	78.7	70.6	50.8	36.6	29.5	22.3	18.8	18.8	18.3	17.3	16.8
59°	74.1	67.0	46.7	33.0	26.9	19.3	16.8	17.3	16.8	15.7	15.2
60°	70.6	64.0	43.7	30.5	25.4	17.8	15.2	16.2	15.7	14.7	14.2
62.5°	62.5	57.9	37.6	25.4	22.3	14.2	12.7	13.7	13.7	13.2	12.7
65°	54.8	49.8	32.0	21.3	20.8	12.2	10.2	12.2	12.7	11.7	10.7
67.5°	47.7	42.7	27.9	17.3	19.3	9.6	7.6	10.2	13.7	10.7	9.6
70°	40.6	35.5	21.8	13.7	20.3	6.6	6.1	9.1	16.2	11.7	9.1
72.5°	31.5	27.4	15.2	10.2	21.8	4.6	4.6	7.6	18.3	12.7	8.6
75°	21.8	17.8	9.1	6.1	17.8	3.0	3.0	7.1	17.3	11.7	8.1
77.5°	12.7	9.6	3.0	0.5	9.1	0.0	0.5	5.1	12.2	7.1	3.6
80°	4.6	2.0	0.0	0.0	5.6	0.0	0.0	0.0	1.0	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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3491.4	3491.4	3491.4	3491.4	3491.4	3491.4	3491.4	3491.4	3491.4	3491.4	3491.4
2.5°	2962.8	3031.3	3092.8	3185.7	3295.9	3422.8	3532.0	3649.3	3759.5	3805.2	3836.6
5°	2270.2	2355.0	2454.0	2590.6	2772.4	2996.3	3206.0	3443.1	3698.0	3825.5	3945.3
7.5°	1605.0	1691.4	1814.2	1959.5	2179.3	2445.9	2720.1	3047.6	3392.9	3594.4	3793.0
10°	1154.1	1260.3	1375.0	1573.6	1797.0	2049.8	2332.1	2697.7	3082.6	3306.0	3545.2
12.5°	785.5	906.4	1080.0	1302.4	1564.9	1812.7	2058.0	2406.8	2853.6	3075.0	3331.4
15°	471.2	538.2	722.0	979.5	1301.4	1610.1	1878.7	2228.6	2704.8	2976.0	3242.6
17.5°	290.4	321.4	421.4	632.7	970.8	1361.3	1729.4	2168.1	2726.2	3056.2	3341.6
20°	231.5	243.7	275.7	373.7	643.3	1087.1	1561.4	2156.0	2900.3	3306.5	3612.7
22.5°	201.1	212.8	234.1	271.7	404.7	813.9	1401.9	2167.1	3150.2	3681.8	4039.2
25°	177.2	187.4	207.7	238.6	296.5	573.3	1231.3	2216.9	3475.6	4147.4	4527.2
27.5°	158.4	167.1	185.8	214.3	254.4	400.1	1037.9	2277.3	3861.5	4623.7	4998.4
30°	141.2	148.8	165.5	191.9	220.9	307.7	825.6	2318.4	4247.9	4998.4	5335.1
32.5°	126.4	132.0	147.3	169.6	191.9	245.2	627.6	2311.8	4534.8	5310.2	5577.3
35°	111.2	116.8	130.0	149.3	167.1	202.6	493.5	2188.5	4784.6	5633.6	5854.5
37.5°	94.4	101.6	114.2	131.5	143.7	178.2	399.1	2039.7	5038.0	6003.3	6163.7
40°	80.2	87.3	98.5	117.3	124.9	169.1	306.7	1858.4	5322.9	6416.6	6502.9
42.5°	66.5	73.1	84.8	101.0	117.8	145.7	227.0	1651.2	5596.5	6770.0	6812.1
45°	53.8	60.4	72.6	88.9	125.9	120.8	175.7	1429.3	5817.4	7064.0	7077.7
47.5°	42.7	48.7	61.4	83.8	117.3	96.5	125.4	1255.2	6002.8	7293.5	7257.4
50°	33.0	38.1	51.3	96.0	102.6	79.7	95.0	1197.3	6168.8	7435.7	7342.2
52.5°	25.9	30.5	42.1	89.9	79.7	66.0	79.7	1251.6	6396.3	7553.5	7390.0
55°	20.8	25.4	33.0	51.3	54.3	55.9	68.0	1302.4	6788.8	7829.7	7671.8
57.5°	17.3	21.8	26.9	36.1	41.1	47.2	60.4	1308.0	7251.3	8288.7	8139.4
59°	15.7	19.8	24.4	32.0	36.1	43.2	56.9	1277.5	7414.3	8455.8	8381.1
60°	14.7	18.8	22.8	29.5	33.5	40.6	54.8	1248.6	7421.4	8449.7	8484.2
62.5°	12.7	16.8	20.3	24.9	28.4	34.5	49.3	1141.4	7120.8	8172.9	8422.2
65°	11.2	14.7	18.3	21.3	24.4	31.0	44.7	946.0	6607.5	7726.6	7998.3
67.5°	10.2	12.7	16.8	18.8	21.8	27.4	39.6	674.3	5966.2	7180.8	7357.0
70°	9.1	12.2	15.2	17.3	19.8	23.9	34.0	387.4	5038.0	6381.5	6507.0
72.5°	8.6	11.7	13.7	16.2	17.8	21.3	31.0	182.3	3688.9	5112.1	5439.6
75°	7.6	10.7	12.7	15.2	16.8	19.3	26.4	87.3	2453.5	3699.6	4071.7
77.5°	4.6	8.6	11.7	13.7	14.7	16.8	21.8	50.3	1565.9	2560.6	3016.1
80°	0.0	3.0	8.6	11.7	12.7	14.2	16.8	39.6	837.8	1462.9	1755.8
82.5°	0.0	0.0	6.1	9.1	8.6	9.6	12.7	24.9	377.8	956.1	1077.5
85°	0.0	0.0	2.0	7.1	6.1	4.6	8.6	8.6	82.8	483.9	603.7
87.5°	0.0	0.0	0.0	0.5	3.0	2.0	3.6	1.0	0.5	36.1	146.2
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: P324456

CATALOG NUMBER: GAN-SA2D-730-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3491.4	3491.4	3491.4	3491.4	3491.4	3491.4	3491.4	3491.4	3491.4	3491.4
2.5°	3946.8	3984.4	4047.9	4077.8	4063.1	4000.7	3926.0	3849.8	3805.2	3822.9
5°	4189.5	4383.0	4494.7	4531.8	4469.8	4329.7	4146.4	3904.7	3818.9	3795.5
7.5°	4189.5	4553.6	4784.1	4824.8	4686.6	4411.9	4068.2	3690.9	3565.5	3519.8
10°	4042.3	4537.9	4859.3	4923.8	4730.8	4320.0	3859.5	3428.9	3280.1	3232.9
12.5°	3876.3	4409.9	4748.6	4837.4	4679.0	4228.6	3714.8	3251.7	3076.5	3035.4
15°	3774.2	4252.5	4532.8	4597.3	4530.2	4175.3	3680.3	3198.4	2992.2	2952.6
17.5°	3810.8	4130.6	4231.7	4269.3	4314.5	4156.5	3774.2	3315.2	3054.2	3016.6
20°	3948.4	4002.2	3949.9	3997.1	4119.0	4174.8	3998.1	3597.5	3284.2	3233.9
22.5°	4181.9	3935.7	3788.9	3807.7	3956.0	4235.2	4340.3	4000.7	3639.1	3576.2
25°	4454.1	3989.5	3699.6	3682.8	3835.1	4315.0	4653.1	4439.4	4059.0	3989.5
27.5°	4796.3	4110.3	3681.3	3664.5	3793.0	4389.6	4913.1	4873.0	4501.3	4382.5
30°	5060.4	4229.1	3735.6	3697.0	3835.1	4441.4	5121.8	5241.1	4853.7	4775.0
32.5°	5249.7	4369.3	3824.0	3768.1	3953.9	4530.8	5282.8	5578.3	5179.7	5060.4
35°	5394.0	4521.6	3966.6	3874.7	4117.4	4666.3	5433.6	5937.3	5526.5	5396.0
37.5°	5529.0	4735.4	4189.5	4079.9	4373.9	4884.7	5593.0	6344.5	5914.4	5758.5
40°	5717.4	4977.6	4533.3	4435.8	4804.9	5182.2	5792.0	6769.0	6355.7	6159.7
42.5°	5905.8	5237.6	4885.2	4911.6	5342.7	5543.7	6049.0	7217.8	6791.3	6582.1
45°	6077.9	5505.7	5386.3	5508.2	5841.8	5940.3	6304.4	7477.3	7139.1	6937.0
47.5°	6231.3	5840.8	5884.4	6208.9	6409.5	6299.3	6495.3	7701.2	7398.1	7219.9
50°	6409.5	6274.4	6541.0	7000.0	7063.0	6624.3	6668.9	7966.3	7700.7	7557.5
52.5°	6604.5	6731.4	7268.1	7672.8	7652.5	6977.2	6843.6	8263.3	8115.6	7981.0
55°	6825.8	7100.5	7908.4	8302.4	8285.1	7371.2	7133.0	8630.4	8635.5	8513.6
57.5°	7154.4	7418.4	8343.0	8811.7	8840.6	7826.1	7623.5	9041.7	9105.7	9024.4
59°	7390.0	7624.5	8515.2	9024.4	9142.2	8178.0	7982.0	9280.4	9238.2	9164.1
60°	7564.6	7755.6	8600.5	9135.6	9317.4	8416.7	8246.6	9420.5	9254.0	9164.1
62.5°	7996.7	8040.9	8754.3	9261.6	9519.0	8946.8	8990.9	9659.1	9144.8	8998.0
65°	8198.3	8221.2	8752.3	9036.1	9324.0	9359.6	9666.3	9666.3	8878.2	8652.8
67.5°	8114.0	8003.8	8318.2	8288.7	8576.1	9114.3	9920.1	9311.8	8368.4	8077.0
70°	7428.6	7004.6	6864.9	6877.6	7097.5	7927.7	9417.5	8268.9	7403.7	7063.0
72.5°	6181.0	5163.9	4819.2	5212.7	5270.1	6092.6	8025.7	6227.2	5460.0	5140.6
75°	4971.5	3640.1	3079.6	3494.9	3592.4	4458.7	6208.4	3878.3	3189.3	2940.4
77.5°	3571.6	2612.9	2209.8	2180.8	2306.8	2827.7	4405.3	1951.8	1627.9	1519.2
80°	2029.0	1719.8	1851.8	1747.2	1810.7	1768.0	2093.0	856.1	701.2	655.5
82.5°	1224.7	1016.5	1100.8	916.5	1159.7	1009.9	806.3	274.2	238.1	226.5
85°	796.7	555.5	289.4	194.0	399.6	645.4	180.3	74.6	57.4	45.7
87.5°	274.7	141.7	14.2	6.1	42.7	120.3	6.6	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)