

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: P324106

Luminaire Tested: **GAN-SA2A-730-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324106  
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-SA2A-730-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 615mA 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: 6438 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

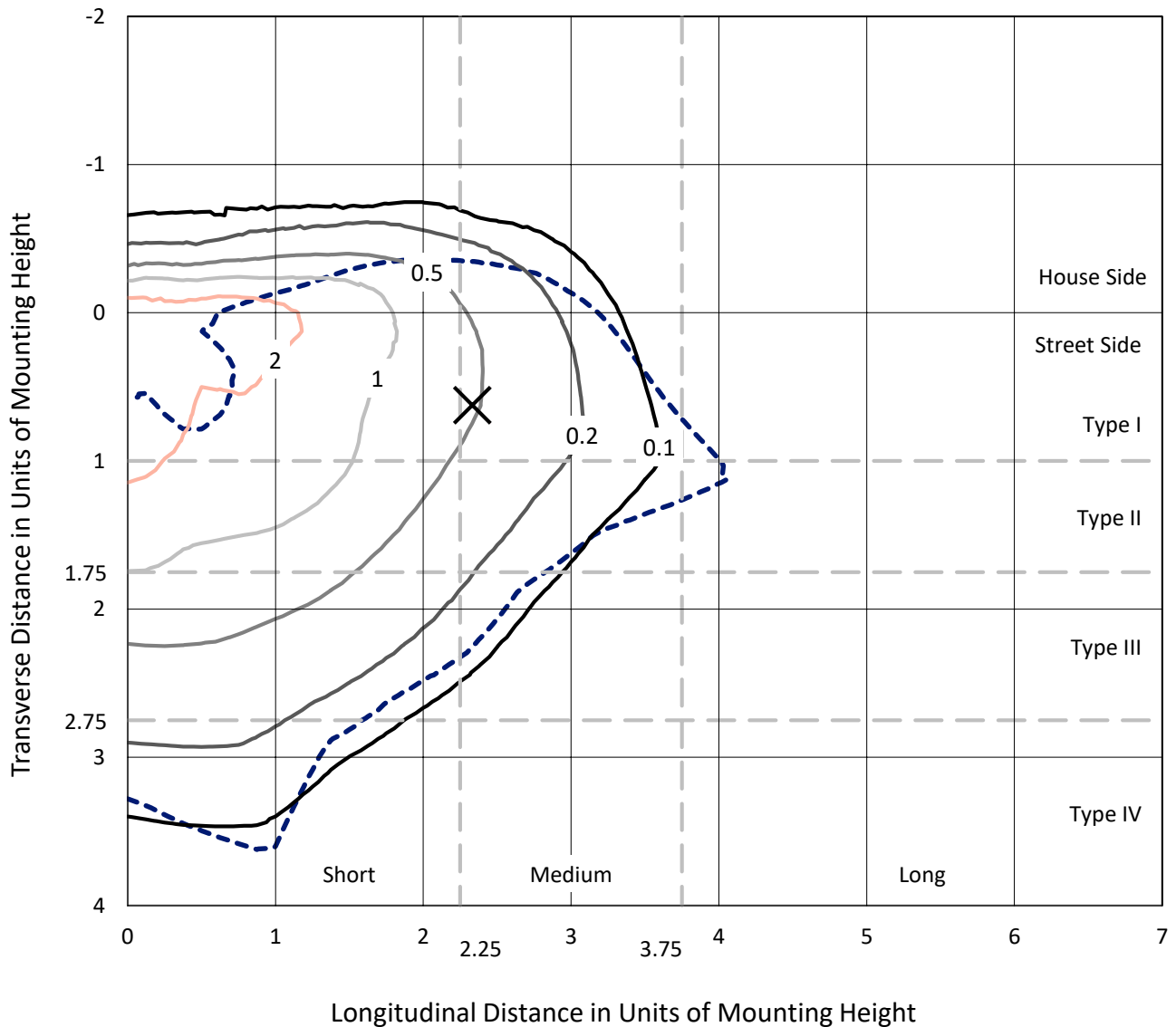
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

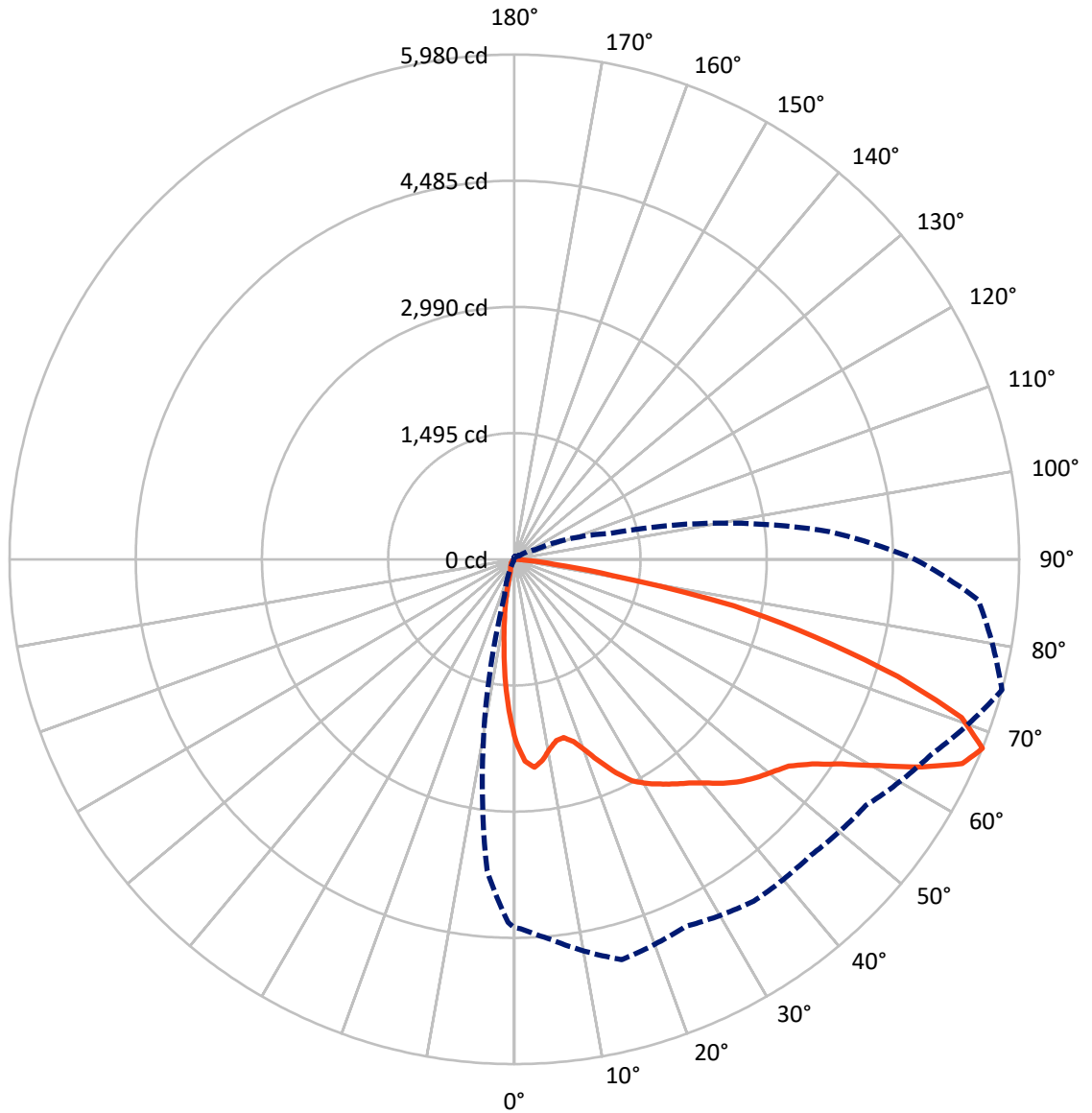
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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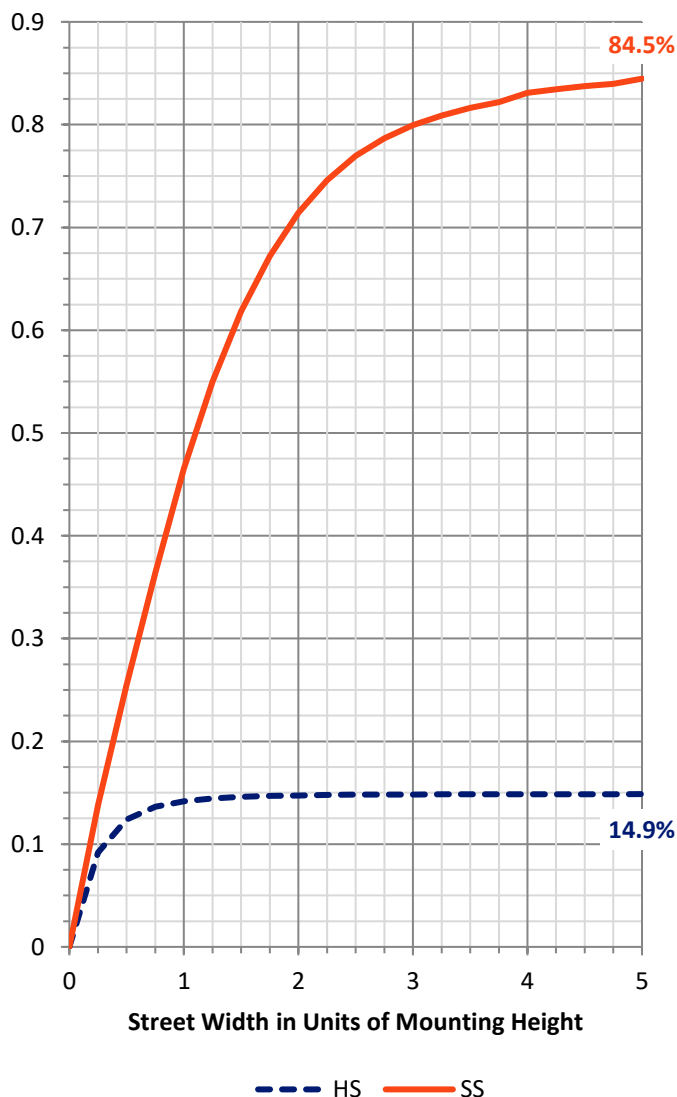
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	966.1	0.0	966.1
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	5471.9	0.0	5471.9
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	6438.0	0.0	6438.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.8	2.5
10°-20°	322.6	5.0
20°-30°	456.4	7.1
30°-40°	671.0	10.4
40°-50°	964.4	15.0
50°-60°	1357.7	21.1
60°-70°	1585.7	24.6
70°-80°	808.9	12.6
80°-90°	107.5	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°	6438.0	100.0
0°-180°	6438.0	100.0

**Coefficient of Utilization**

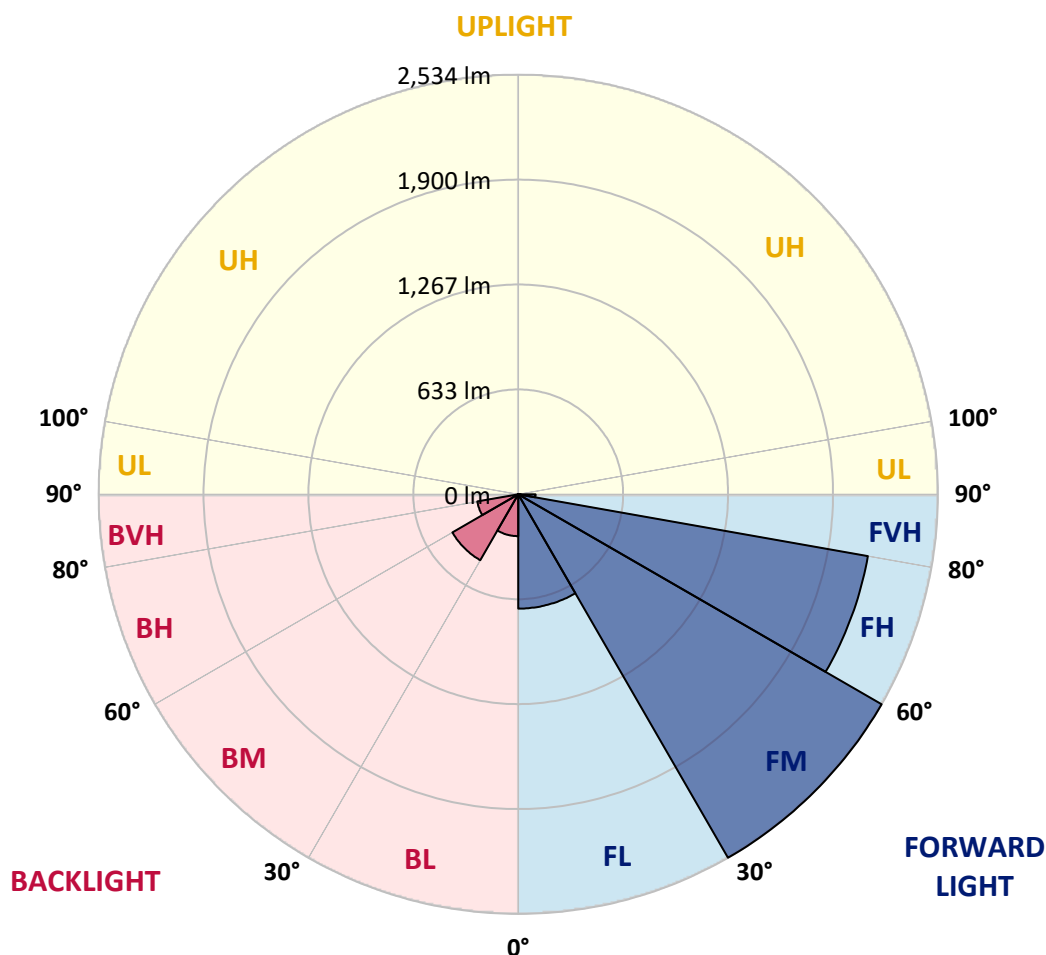


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	690.2	10.7			
FM (30°-60°)	2533.9	39.4			
FH (60°-80°)	2143.7	33.3			G2/5000
FVH (80°-90°)	104.2	1.6			G2/225
BL (0°-30°)	252.6	3.9	B1/500		
BM (30°-60°)	459.3	7.1	B1/1000		
BH (60°-80°)	250.9	3.9	B1/500		G1/500
BVH (80°-90°)	3.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8
2.5°	2341.3	2345.0	2363.9	2407.8	2455.7	2459.3	2491.7	2458.4	2447.1	2393.5	2337.9
5°	2359.0	2373.0	2438.0	2567.0	2678.9	2714.9	2740.5	2675.2	2606.6	2475.5	2335.5
7.5°	2216.6	2240.0	2342.2	2584.4	2784.4	2872.9	2889.6	2787.5	2619.4	2403.5	2193.1
10°	2034.2	2061.0	2184.2	2481.9	2756.7	2908.2	2931.4	2797.5	2556.0	2287.0	2039.1
12.5°	1886.6	1918.0	2043.9	2366.6	2661.2	2829.0	2874.7	2763.7	2501.1	2204.4	1933.9
15°	1818.6	1854.6	1986.9	2292.2	2555.4	2687.4	2725.3	2677.4	2470.6	2191.3	1909.5
17.5°	1857.6	1896.6	2033.3	2298.6	2456.0	2512.4	2542.9	2562.4	2470.6	2270.2	1980.8
20°	2017.7	2059.8	2204.4	2363.6	2373.6	2352.6	2385.2	2453.8	2499.3	2420.3	2152.2
22.5°	2239.1	2288.5	2451.7	2474.9	2333.4	2253.8	2258.0	2365.7	2551.4	2610.6	2390.1
25°	2509.0	2569.4	2735.3	2640.8	2350.1	2194.9	2193.4	2293.1	2602.4	2801.2	2655.1
27.5°	2777.1	2843.6	2989.4	2843.3	2419.4	2184.2	2181.2	2271.2	2652.1	2970.8	2944.5
30°	3001.9	3066.5	3192.2	2990.0	2494.1	2209.2	2194.6	2294.6	2681.7	3080.9	3155.6
32.5°	3184.9	3236.7	3338.3	3090.9	2574.0	2257.7	2226.0	2357.5	2732.0	3173.9	3349.5
35°	3386.1	3440.7	3481.3	3187.0	2663.7	2327.6	2282.1	2457.2	2809.4	3268.4	3562.1
37.5°	3615.8	3670.1	3665.2	3274.8	2777.4	2443.2	2414.2	2615.2	2929.9	3362.1	3799.4
40°	3840.6	3896.1	3856.4	3370.9	2911.0	2633.8	2612.4	2852.4	3091.2	3481.9	4077.5
42.5°	4051.0	4111.1	4026.3	3461.8	3070.2	2874.1	2910.7	3158.0	3293.1	3629.5	4317.2
45°	4220.6	4281.9	4168.7	3550.2	3237.9	3165.6	3275.7	3496.5	3535.9	3754.3	4479.2
47.5°	4343.8	4401.7	4267.5	3638.7	3452.6	3522.2	3714.0	3851.5	3755.2	3862.5	4594.2
50°	4422.5	4467.6	4296.5	3749.4	3734.4	3938.2	4170.5	4237.6	3961.6	3960.1	4733.8
52.5°	4472.5	4492.9	4317.8	3865.0	4028.4	4391.0	4617.6	4638.7	4174.2	4067.5	4922.0
55°	4644.8	4661.3	4469.1	4004.9	4271.5	4787.8	5022.0	5002.5	4414.8	4277.6	5144.0
57.5°	4938.8	4956.2	4781.7	4206.2	4468.2	5033.0	5315.1	5350.2	4696.9	4572.8	5381.9
60°	5086.4	5118.7	5056.5	4461.2	4658.8	5189.8	5514.9	5626.8	5049.5	4962.0	5612.5
62.5°	4952.5	4999.5	5089.7	4743.9	4848.2	5276.1	5577.1	5725.9	5410.6	5415.5	5754.6
65°	4685.3	4722.9	4876.0	4898.8	4958.0	5265.4	5423.4	5587.5	5631.7	5832.1	5747.0
67.5°	4362.7	4376.7	4506.6	4911.0	4798.8	4944.6	4961.7	5083.0	5456.9	5979.7	5516.1
70°	3898.2	3905.8	4019.3	4502.7	4123.9	4155.9	4130.6	4155.3	4691.4	5620.1	4933.3
72.5°	3137.3	3156.5	3317.8	3739.3	3004.3	2911.9	3110.8	3099.8	3613.0	4748.2	3664.0
75°	2309.9	2343.1	2586.8	3011.9	2108.6	1907.3	2052.5	2091.2	2568.5	3672.8	2291.3
77.5°	1617.3	1642.0	1878.0	2214.1	1526.1	1363.9	1311.4	1357.4	1695.4	2656.9	1154.3
80°	931.7	940.9	1091.5	1278.5	1028.4	1176.6	1065.9	1097.6	1015.9	1182.1	496.5
82.5°	609.6	611.2	670.0	760.9	640.4	744.1	550.8	704.2	624.9	474.8	161.6
85°	329.4	331.2	388.5	540.1	362.6	204.9	120.5	247.3	386.4	108.9	44.2
87.5°	36.3	33.2	117.1	196.4	100.6	18.6	6.4	27.8	61.9	7.0	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°	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8
2.5°	2309.6	2284.3	2221.1	2154.3	2100.7	2050.4	1999.7	1937.8	1889.9	1880.2	1864.3
5°	2260.2	2180.0	2047.6	1914.6	1807.6	1672.5	1586.8	1520.0	1454.7	1450.8	1437.7
7.5°	2087.6	1982.0	1795.7	1611.8	1461.1	1332.4	1202.5	1115.6	1047.3	1023.2	1008.9
10°	1921.7	1803.0	1570.3	1360.5	1226.0	1112.2	1020.8	929.9	847.5	790.8	765.2
12.5°	1805.8	1674.6	1418.1	1237.3	1140.9	1033.0	921.3	807.9	713.0	644.7	602.9
15°	1760.9	1620.9	1367.2	1188.5	1069.6	932.9	790.2	660.6	555.4	493.5	455.9
17.5°	1814.3	1651.4	1363.2	1129.0	962.8	792.9	635.3	482.2	383.0	336.1	312.0
20°	1949.7	1748.4	1361.7	1056.1	835.9	627.0	430.3	317.2	257.1	230.9	219.6
22.5°	2141.2	1872.2	1373.9	984.2	703.9	448.0	297.0	233.0	202.2	188.2	181.8
25°	2387.7	2046.1	1408.4	918.9	579.8	334.3	231.5	195.2	173.5	162.6	158.0
27.5°	2650.2	2246.1	1462.1	862.2	478.8	266.5	198.2	167.1	151.6	143.9	139.7
30°	2866.8	2477.9	1516.3	799.0	405.6	232.4	181.5	152.5	134.5	129.6	125.7
32.5°	3056.2	2653.3	1554.8	742.0	357.7	206.5	164.1	136.3	124.1	114.7	110.4
35°	3252.3	2799.4	1553.5	702.1	324.8	187.0	149.4	122.0	107.4	96.4	93.0
37.5°	3464.5	2964.4	1527.0	667.9	310.5	171.4	141.2	114.4	99.7	88.7	84.5
40°	3713.1	3137.6	1499.9	635.9	306.5	158.9	135.4	108.3	92.7	82.0	77.8
42.5°	3955.2	3293.7	1476.1	612.1	289.4	158.6	130.2	103.7	87.2	76.9	72.0
45°	4148.9	3439.2	1471.5	597.8	271.4	164.1	127.5	100.6	83.0	72.6	68.0
47.5°	4309.9	3597.2	1500.8	587.7	254.3	149.7	134.2	98.5	79.0	68.9	63.7
50°	4501.4	3791.2	1569.7	571.2	236.4	134.8	153.7	99.1	75.6	65.3	59.8
52.5°	4768.6	4059.5	1671.0	543.5	211.7	121.1	151.3	99.7	72.0	61.3	55.8
55°	5068.1	4394.7	1779.8	497.4	177.2	103.1	129.6	95.5	65.0	57.0	51.8
57.5°	5382.8	4698.8	1844.5	442.5	140.9	89.1	103.7	86.9	57.3	51.2	47.9
60°	5432.2	4814.3	1814.9	375.1	111.9	77.5	76.9	88.4	51.2	45.1	42.7
62.5°	5309.3	4669.2	1671.9	315.0	93.6	68.0	63.1	77.2	46.4	40.3	37.8
65°	5073.0	4276.7	1440.1	283.9	86.9	58.3	52.5	54.3	40.6	35.1	32.9
67.5°	4744.2	3752.7	1182.4	266.2	86.0	50.0	44.8	41.2	35.1	30.5	28.7
70°	4072.0	3126.3	943.3	256.5	83.6	42.1	37.8	33.5	29.3	25.9	24.4
72.5°	2997.0	2215.3	733.8	245.8	84.2	33.5	32.9	27.8	23.5	20.1	19.5
75°	1731.7	1265.6	481.3	199.1	80.2	25.9	27.4	19.5	16.5	14.0	14.0
77.5°	922.9	771.9	183.3	83.0	29.3	16.5	15.6	11.6	10.4	8.5	8.2
80°	402.3	339.7	55.2	23.2	16.2	8.8	5.8	5.2	4.6	3.7	3.4
82.5°	142.4	122.9	18.0	11.3	7.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	32.3	23.2	0.0	2.7	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°	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8
2.5°	1832.0	1825.3	1785.6	1787.2	1794.2	1804.2	1780.4	1791.4	1821.0	1849.4	1860.0
5°	1416.6	1418.1	1394.0	1409.0	1422.4	1431.6	1393.1	1393.7	1417.2	1449.2	1466.0
7.5°	998.2	995.7	997.0	1032.6	1058.0	1039.7	1054.0	1004.3	1007.3	1030.2	1013.1
10°	742.0	708.5	689.6	716.4	744.1	734.1	709.4	693.2	704.5	729.8	728.0
12.5°	583.1	534.9	506.6	487.4	510.2	491.3	490.7	476.7	461.4	464.2	504.7
15°	438.6	403.5	369.9	339.1	338.5	332.1	299.5	262.9	259.8	261.7	282.7
17.5°	301.6	289.7	276.0	249.5	242.5	215.6	183.9	169.3	161.9	165.3	172.3
20°	212.0	207.4	208.9	194.6	184.5	158.9	140.3	134.5	133.3	136.6	140.0
22.5°	175.7	167.4	166.5	160.1	150.0	131.4	121.4	118.0	116.5	119.6	122.0
25°	153.7	145.5	142.1	138.2	127.5	114.7	108.6	105.5	104.0	105.8	107.4
27.5°	135.4	127.8	124.7	122.0	111.6	102.5	97.6	94.8	93.6	94.2	95.8
30°	121.7	115.0	111.0	107.7	98.8	92.4	88.1	85.4	84.2	84.2	85.7
32.5°	107.4	103.7	100.0	95.8	87.5	83.3	79.0	75.9	74.7	75.0	76.2
35°	89.4	88.1	89.1	85.1	78.1	74.4	70.1	66.8	65.9	66.2	67.4
37.5°	79.3	73.8	77.2	75.0	71.1	66.2	60.7	57.6	56.1	57.0	57.6
40°	72.9	66.2	63.7	65.9	65.3	57.3	52.5	49.4	48.2	48.5	49.1
42.5°	67.4	59.5	54.0	53.7	57.3	50.0	44.8	42.1	40.6	40.6	41.2
45°	62.2	53.7	47.0	41.8	48.2	42.4	37.5	35.1	33.2	33.2	33.5
47.5°	58.3	48.8	40.9	34.2	36.3	34.8	30.8	28.4	26.5	26.5	26.8
50°	54.6	43.9	35.4	28.7	27.1	28.7	25.0	22.3	21.0	20.7	21.3
52.5°	50.6	39.0	30.2	24.4	21.3	21.7	19.5	17.7	16.2	16.2	16.8
55°	46.7	35.1	26.2	20.7	17.7	16.2	15.6	14.3	13.1	13.1	13.7
57.5°	42.7	30.8	22.3	17.1	14.0	12.8	12.8	11.9	11.0	11.0	11.6
60°	39.0	26.5	18.3	14.0	11.0	10.7	11.0	10.1	9.5	9.5	10.1
62.5°	34.8	22.6	14.9	11.6	8.8	8.5	9.5	8.8	8.2	8.2	8.8
65°	29.6	19.2	11.9	8.8	6.7	6.7	7.9	7.3	6.7	6.7	7.3
67.5°	25.0	16.2	9.1	6.4	4.9	5.2	6.7	6.1	5.8	5.8	6.4
70°	20.7	12.5	6.4	4.0	2.7	4.0	5.2	5.2	5.2	5.2	5.8
72.5°	15.6	8.5	3.7	1.5	1.2	2.7	4.3	4.9	4.6	4.6	5.5
75°	10.1	4.9	1.2	0.0	0.0	1.5	3.4	4.0	4.0	3.7	4.6
77.5°	5.8	1.5	0.0	0.0	0.0	0.0	2.1	1.8	1.5	1.2	2.1
80°	1.5	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



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 CATALOG NUMBER: GAN-SA2A-730-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8
2.5°	1903.0	1939.0	1989.7	2043.3	2126.0	2191.6	2255.9	2311.1	2332.5	2341.3
5°	1506.3	1559.0	1633.1	1728.3	1877.4	2011.6	2147.6	2284.6	2344.0	2359.0
7.5°	1080.8	1148.2	1242.5	1361.7	1536.5	1710.3	1900.3	2101.3	2193.4	2216.6
10°	800.0	882.3	990.3	1115.9	1282.7	1461.4	1668.5	1898.2	2003.4	2034.2
12.5°	567.6	678.9	823.4	976.2	1120.8	1280.3	1489.8	1742.9	1853.3	1886.6
15°	333.3	441.0	612.1	816.7	1001.8	1163.5	1376.4	1663.3	1785.0	1818.6
17.5°	191.2	244.9	374.2	602.3	853.6	1077.5	1340.7	1683.2	1826.5	1857.6
20°	146.1	163.2	215.6	387.9	680.4	993.0	1340.7	1795.4	1972.0	2017.7
22.5°	127.8	140.3	161.6	231.5	500.8	902.4	1356.2	1957.6	2188.5	2239.1
25°	113.5	124.7	143.0	174.1	341.6	794.8	1393.1	2156.8	2443.5	2509.0
27.5°	101.6	112.2	128.7	152.5	233.6	664.8	1442.8	2390.4	2724.7	2777.1
30°	90.9	100.9	115.9	132.7	180.2	517.5	1485.2	2610.6	2945.5	3001.9
32.5°	80.8	90.0	103.4	115.9	147.6	382.7	1489.8	2785.0	3128.7	3184.9
35°	71.4	79.6	91.8	101.6	122.3	302.2	1418.7	2936.3	3312.0	3386.1
37.5°	62.2	70.1	80.8	88.1	107.7	246.4	1310.2	3105.0	3547.2	3615.8
40°	53.7	60.7	71.7	76.5	101.9	189.4	1192.2	3281.8	3777.7	3840.6
42.5°	45.7	52.5	63.1	72.6	89.4	141.5	1064.7	3447.8	3985.1	4051.0
45°	38.1	45.1	55.8	76.9	74.1	105.8	928.3	3557.8	4148.9	4220.6
47.5°	30.8	38.7	53.4	73.2	59.2	77.8	820.4	3662.1	4273.0	4343.8
50°	24.7	32.6	60.1	65.3	48.5	59.5	775.2	3755.5	4354.4	4422.5
52.5°	20.1	27.4	56.7	50.0	40.6	49.1	799.6	3906.7	4429.8	4472.5
55°	16.8	21.7	34.2	34.8	34.5	41.8	829.8	4123.9	4624.7	4644.8
57.5°	14.6	17.4	23.8	26.8	29.0	37.2	830.4	4435.6	4926.3	4938.8
60°	12.5	15.2	19.8	21.7	25.0	33.2	800.3	4544.4	5044.9	5086.4
62.5°	11.0	13.4	16.5	18.0	21.0	29.9	729.5	4386.8	4882.1	4952.5
65°	9.8	12.2	13.7	15.2	18.6	26.8	613.0	4071.4	4611.8	4685.3
67.5°	8.5	10.7	12.2	13.7	16.8	23.8	451.4	3705.2	4301.7	4362.7
70°	7.6	9.5	11.0	12.2	14.6	20.1	273.9	3144.0	3872.9	3898.2
72.5°	7.3	8.5	10.1	11.0	12.8	17.7	138.8	2310.5	3096.1	3137.3
75°	6.4	7.6	9.1	9.8	11.3	15.2	56.4	1517.6	2243.7	2309.9
77.5°	5.2	7.0	8.2	8.8	9.8	12.5	28.7	969.8	1574.6	1617.3
80°	1.8	5.2	7.0	7.3	8.2	9.1	18.9	531.0	913.4	931.7
82.5°	0.0	3.4	5.5	5.2	5.8	7.0	12.2	252.5	602.9	609.6
85°	0.0	1.5	4.3	3.4	2.4	4.9	4.3	55.2	316.3	329.4
87.5°	0.0	0.0	0.3	1.5	1.2	1.8	0.6	0.3	28.7	36.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)