

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: P319626

Luminaire Tested: **GAN-SA2A-730-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319626  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2A-730-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8685 lumens  
Efficiency: N/A  
Efficacy: 131.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G3

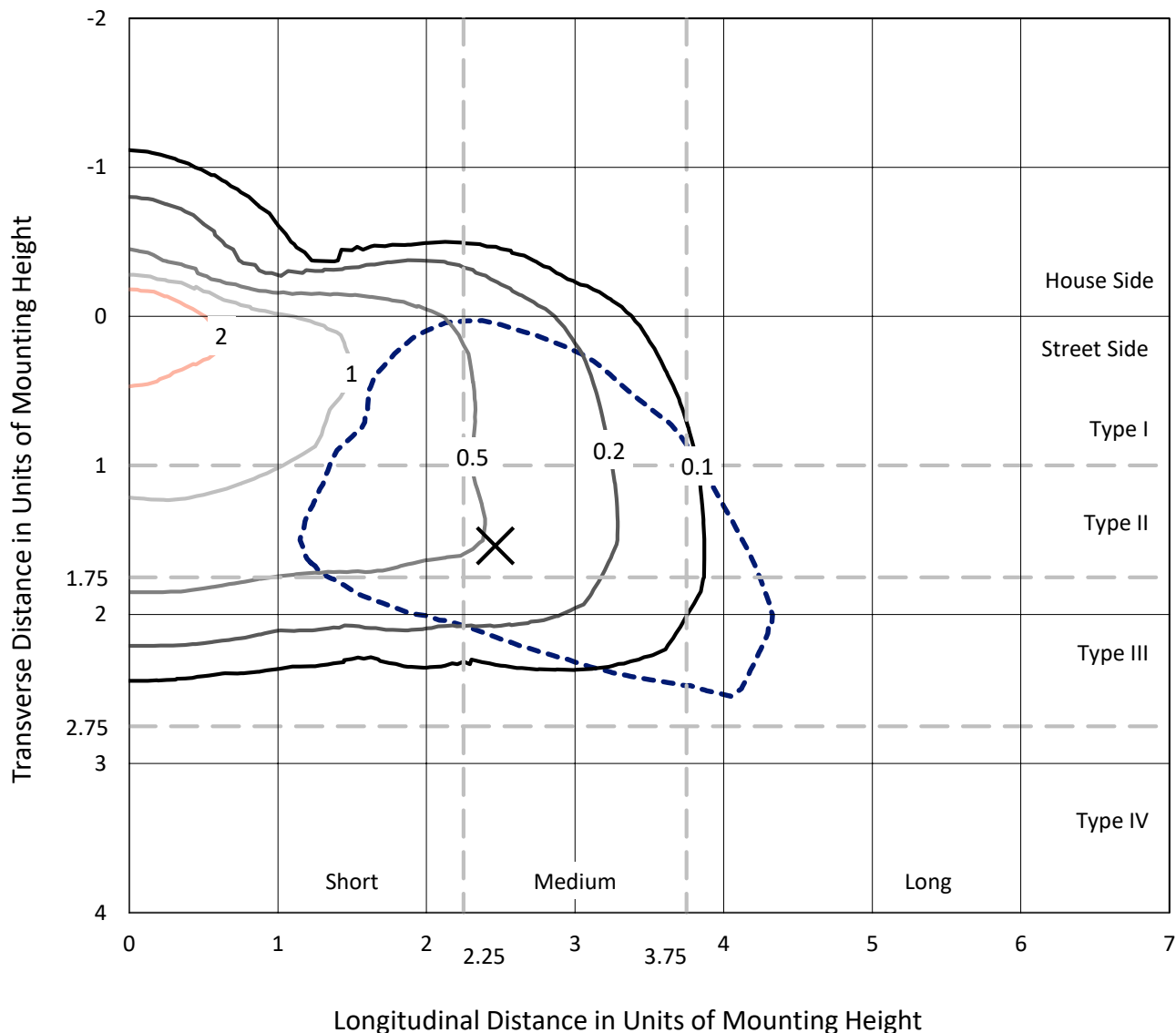
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P319626  
 CATALOG NUMBER: GAN-SA2A-730-U-SL3

### Iso-Footcandle Lines of Horizontal Illumination

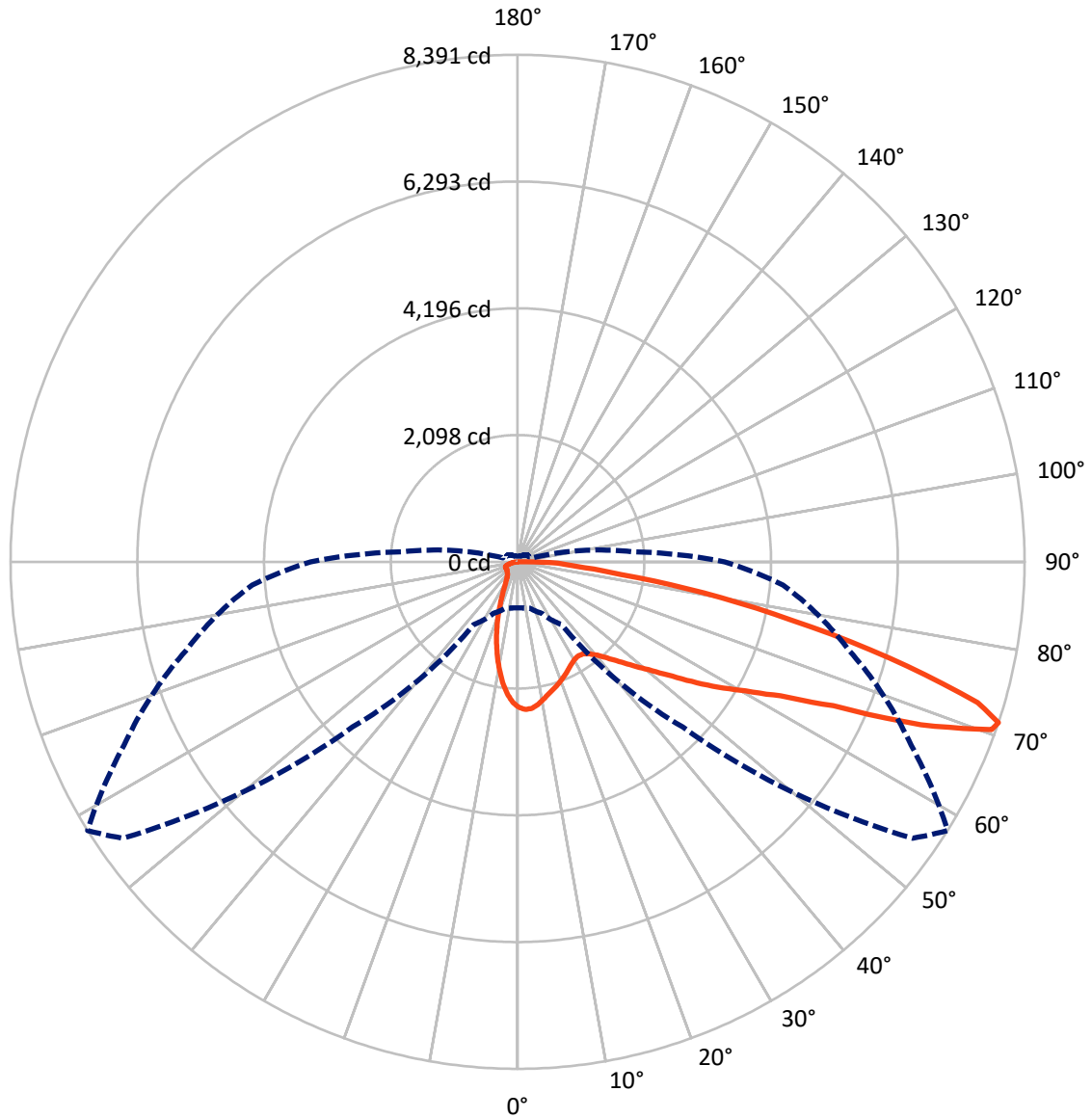
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type III - Medium - N/A

REPORT NUMBER: P319626  
CATALOG NUMBER: GAN-SA2A-730-U-SL3

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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 CATALOG NUMBER: GAN-SA2A-730-U-SL3

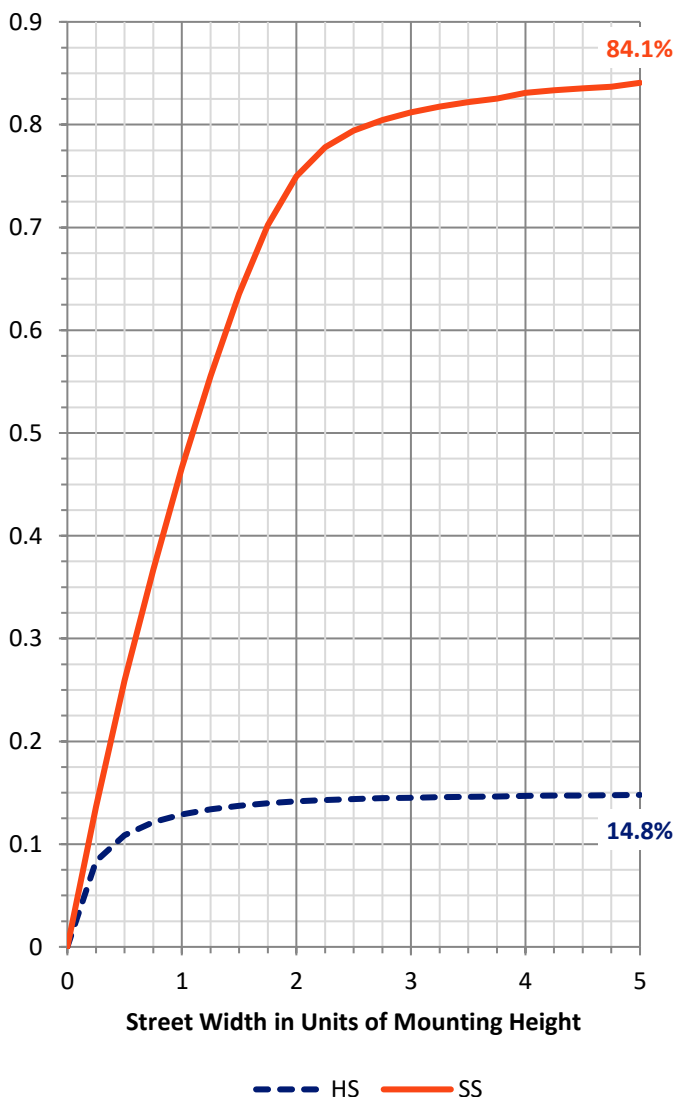
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1298.5	0.0	1298.5
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	7386.5	0.0	7386.5
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	8685.0	0.0	8685.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.6	2.4
10°-20°	461.6	5.3
20°-30°	586.7	6.8
30°-40°	747.3	8.6
40°-50°	1059.7	12.2
50°-60°	1639.9	18.9
60°-70°	2232.5	25.7
70°-80°	1489.4	17.1
80°-90°	260.4	3.0
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°	8685.0	100.0
0°-180°	8685.0	100.0

**Coefficient of Utilization**



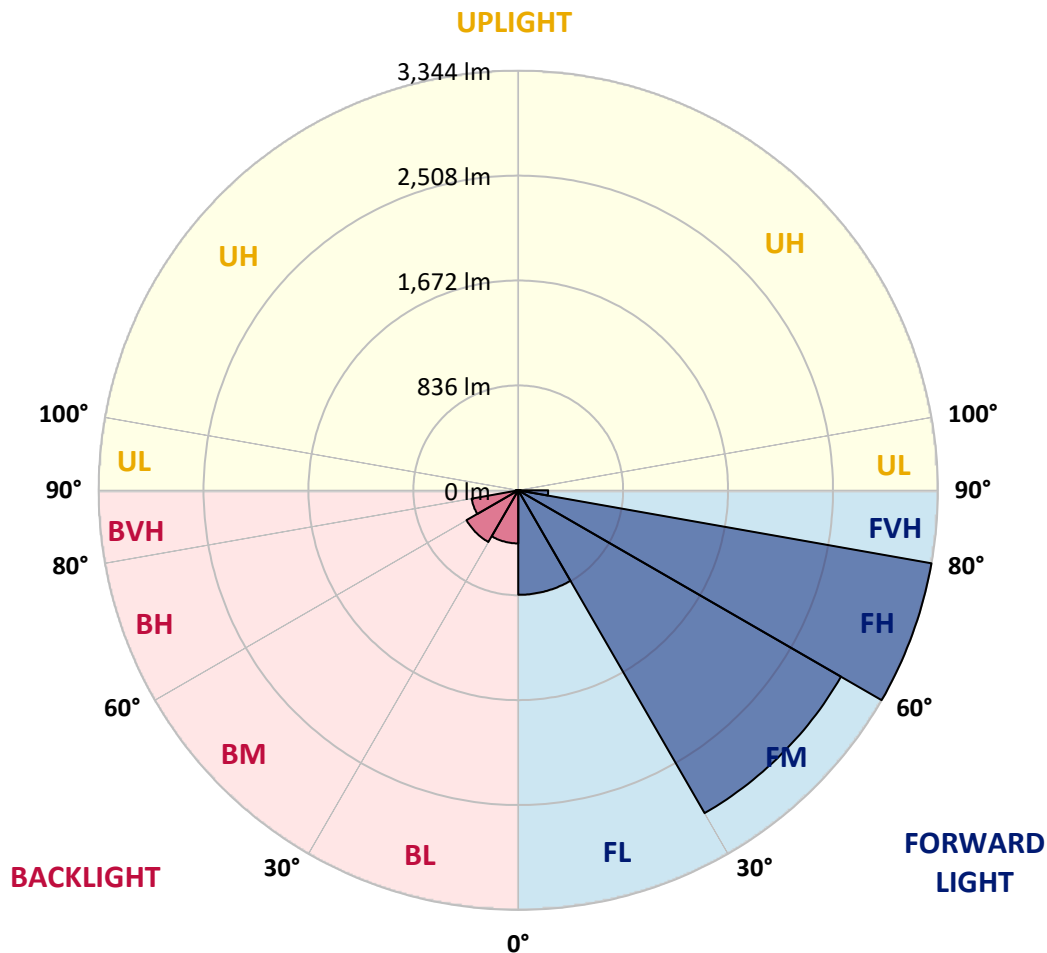
REPORT NUMBER: P319626  
 CATALOG NUMBER: GAN-SA2A-730-U-SL3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	832.6	9.6			
FM (30°-60°)	2970.7	34.2			
FH (60°-80°)	3344.5	38.5			G2/5000
FVH (80°-90°)	238.8	2.7			G3/500
BL (0°-30°)	423.3	4.9	B1/500		
BM (30°-60°)	476.2	5.5	B1/1000		
BH (60°-80°)	377.4	4.3	B1/500		G1/500
BVH (80°-90°)	21.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type III Medium





REPORT NUMBER: P319626

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3
2.5°	2470.2	2466.8	2468.0	2465.6	2459.9	2454.1	2445.7	2447.2	2435.4	2417.8	2396.0
5°	2423.6	2422.4	2431.4	2436.6	2440.8	2437.5	2435.1	2438.1	2420.8	2396.6	2358.8
7.5°	2325.9	2312.5	2324.0	2341.3	2357.6	2370.0	2386.4	2388.5	2377.6	2352.2	2302.6
10°	2187.0	2174.3	2191.2	2218.2	2250.8	2280.5	2313.4	2319.5	2321.6	2298.6	2238.4
12.5°	2043.0	2033.3	2050.2	2088.1	2142.2	2187.9	2240.5	2249.6	2268.4	2252.9	2179.1
15°	1914.1	1910.5	1931.1	1968.3	2030.6	2100.5	2176.4	2193.0	2224.8	2219.7	2132.8
17.5°	1802.8	1801.9	1817.6	1856.6	1925.6	2013.9	2112.6	2140.7	2187.9	2193.9	2094.7
20°	1719.9	1718.1	1729.0	1757.7	1828.8	1928.9	2043.6	2082.3	2150.4	2171.6	2055.4
22.5°	1675.4	1675.1	1675.4	1689.0	1747.1	1840.3	1976.4	2023.6	2113.8	2153.7	2011.8
25°	1667.8	1666.9	1660.3	1658.8	1691.7	1766.2	1909.9	1961.9	2079.0	2141.3	1970.4
27.5°	1687.5	1688.7	1680.0	1665.7	1672.4	1717.5	1852.1	1907.8	2051.2	2138.9	1941.6
30°	1728.4	1727.8	1720.2	1705.4	1692.4	1699.3	1810.9	1866.6	2032.4	2149.5	1922.0
32.5°	1773.4	1776.8	1775.2	1767.1	1747.7	1719.9	1798.5	1853.0	2027.0	2174.9	1913.5
35°	1827.6	1831.2	1842.1	1848.5	1825.8	1781.0	1825.2	1872.4	2042.7	2222.7	1927.1
37.5°	1879.0	1888.4	1918.9	1945.9	1926.5	1876.6	1896.0	1929.5	2091.4	2298.0	1963.7
40°	1938.3	1946.5	1996.4	2053.6	2050.6	1998.8	2010.0	2032.4	2177.3	2406.0	2030.0
42.5°	1996.7	2013.0	2085.3	2166.4	2189.7	2144.0	2161.9	2173.7	2298.3	2549.1	2145.5
45°	2074.4	2092.0	2192.4	2290.2	2344.6	2318.9	2347.3	2351.9	2450.5	2743.9	2313.4
47.5°	2192.1	2212.1	2329.2	2431.7	2514.9	2517.7	2564.5	2562.7	2640.5	2966.9	2524.9
50°	2375.5	2404.2	2500.1	2596.0	2697.1	2753.3	2816.0	2807.2	2868.3	3204.4	2768.5
52.5°	2615.7	2629.0	2700.1	2770.9	2896.4	3022.6	3112.4	3104.6	3126.7	3448.5	3045.0
55°	2864.7	2874.6	2904.0	2942.7	3111.5	3317.2	3507.2	3494.8	3438.9	3702.1	3318.2
57.5°	3088.5	3108.8	3129.1	3145.1	3328.1	3625.2	3911.1	3912.0	3777.7	3975.5	3600.4
60°	3123.3	3141.2	3275.2	3401.7	3698.7	4036.1	4343.4	4334.4	4128.3	4272.3	3915.0
62.5°	2760.9	2801.1	3025.0	3361.4	4055.7	4787.5	4894.9	4883.7	4547.6	4638.1	4281.4
65°	1978.5	2024.2	2294.4	2799.9	3882.7	5615.6	5890.3	5739.6	5119.4	5088.0	4710.4
67.5°	1141.4	1152.3	1269.4	1675.4	2956.3	5658.8	7408.7	7197.8	6007.3	5598.3	4920.4
70°	844.1	843.8	871.6	1031.0	1599.8	4618.4	8130.8	8319.9	6942.2	5766.2	4623.6
71°	763.3	764.2	795.4	938.4	1267.0	3865.7	7977.4	8391.3	7188.4	5683.3	4408.8
72.5°	652.9	655.9	699.1	841.6	1065.8	2665.9	7316.7	7962.9	7305.2	5478.8	4072.7
75°	495.2	502.2	562.1	709.4	974.1	1352.0	5369.9	6358.6	6489.6	4834.4	3026.2
77.5°	353.4	361.2	429.0	596.6	926.0	1018.9	3596.2	4638.1	4775.7	3098.2	1365.0
80°	223.3	232.6	283.8	474.7	870.1	967.5	2259.9	3117.6	2604.2	991.4	347.3
82.5°	131.0	138.3	176.1	310.1	710.6	931.8	1329.6	1728.1	1013.5	299.5	157.9
85°	75.9	79.3	109.8	197.6	516.1	879.5	976.9	966.0	439.9	146.4	74.7
87.5°	35.4	39.3	65.0	103.2	286.5	637.4	772.1	667.1	273.5	68.7	35.1
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: P319626  
 CATALOG NUMBER: GAN-SA2A-730-U-SL3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3	2406.3
2.5°	2385.5	2380.3	2358.8	2339.8	2319.8	2293.8	2265.0	2261.4	2243.9	2247.2	2241.1
5°	2338.3	2325.2	2273.5	2226.6	2171.3	2121.6	2067.8	2043.0	2007.3	2004.9	1995.8
7.5°	2270.8	2246.6	2166.4	2077.5	1988.5	1903.8	1820.0	1765.0	1708.7	1684.8	1682.7
10°	2194.9	2153.7	2035.7	1904.1	1775.9	1652.1	1532.3	1443.7	1363.8	1326.0	1324.5
12.5°	2122.9	2062.0	1900.2	1721.1	1545.6	1385.3	1221.0	1104.5	1004.4	970.8	956.6
15°	2061.7	1976.1	1768.3	1539.3	1326.3	1103.6	916.7	794.1	701.6	669.5	663.4
17.5°	2002.4	1892.3	1633.1	1355.6	1098.2	853.4	666.2	575.1	525.8	512.8	512.5
20°	1943.5	1806.1	1491.8	1167.8	877.6	638.3	512.2	471.3	454.7	453.2	450.8
22.5°	1876.6	1714.7	1343.2	979.3	684.9	501.9	435.3	419.0	416.9	422.3	422.3
25°	1814.0	1624.0	1192.6	794.7	532.8	418.7	388.8	385.4	391.2	400.9	401.8
27.5°	1755.6	1536.6	1045.5	630.8	426.9	368.8	356.4	360.3	370.6	381.8	382.1
30°	1707.5	1454.0	902.8	497.1	360.6	331.6	329.5	337.3	348.5	357.3	359.4
32.5°	1670.3	1383.5	764.8	399.6	317.4	303.7	305.6	312.2	319.2	324.0	327.3
35°	1653.0	1323.0	637.4	337.0	289.8	282.3	284.7	288.3	291.3	295.0	297.7
37.5°	1656.1	1276.1	523.7	298.0	271.4	267.4	267.4	267.4	267.4	269.3	269.6
40°	1684.2	1249.1	431.1	273.2	259.0	254.7	251.4	248.4	246.0	247.2	246.6
42.5°	1756.2	1246.7	363.3	257.5	249.0	242.0	235.4	231.1	228.1	229.3	229.9
45°	1878.4	1277.0	317.7	246.3	239.6	229.0	220.5	216.0	213.9	217.8	218.4
47.5°	2036.6	1342.9	289.8	238.1	230.8	216.9	207.8	203.6	204.2	210.0	211.5
50°	2240.5	1450.0	276.5	232.9	224.8	206.6	197.2	193.6	195.4	203.6	205.4
52.5°	2464.4	1604.3	278.0	231.4	220.8	199.1	189.1	184.8	187.9	195.4	196.9
55°	2722.8	1789.8	303.1	233.6	215.1	194.2	182.4	175.2	177.6	184.5	185.8
57.5°	3009.9	2002.1	353.7	232.9	207.8	189.7	175.5	164.6	166.4	170.6	171.8
60°	3308.8	2258.7	432.0	234.8	204.5	184.2	166.1	152.5	151.9	155.5	156.1
62.5°	3667.6	2555.5	521.6	236.0	206.6	177.3	153.7	140.4	138.6	139.5	140.1
65°	4037.3	2770.3	488.0	231.1	213.3	171.5	142.8	128.6	125.2	124.6	124.9
67.5°	4048.8	2540.0	342.2	221.5	216.0	168.5	134.6	118.6	113.1	111.0	110.7
70°	3631.0	2063.6	266.5	211.2	205.1	163.7	127.1	110.4	102.3	98.9	98.6
71°	3427.1	1899.6	252.6	206.0	196.9	158.8	123.7	106.8	98.3	94.7	94.1
72.5°	3107.3	1702.9	235.7	197.9	181.2	146.4	117.4	101.7	92.9	88.6	87.7
75°	2230.0	1113.6	202.4	176.4	150.1	116.8	102.9	91.4	83.8	78.7	78.1
77.5°	859.2	443.2	153.1	146.7	115.0	91.4	84.7	79.0	73.5	68.4	68.1
80°	265.6	198.2	111.6	110.4	83.2	68.1	66.0	64.4	62.3	56.9	55.7
82.5°	141.9	113.8	76.8	71.4	54.5	45.4	47.8	48.4	48.7	43.0	42.4
85°	67.8	60.2	43.3	40.5	31.8	25.4	29.3	31.8	32.1	26.3	24.5
87.5°	32.4	31.5	20.3	15.4	11.8	8.5	10.3	12.7	13.9	10.0	8.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)