

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: P323173

Luminaire Tested: **GAN-SA9C-730-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323173  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9C-730-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47698 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

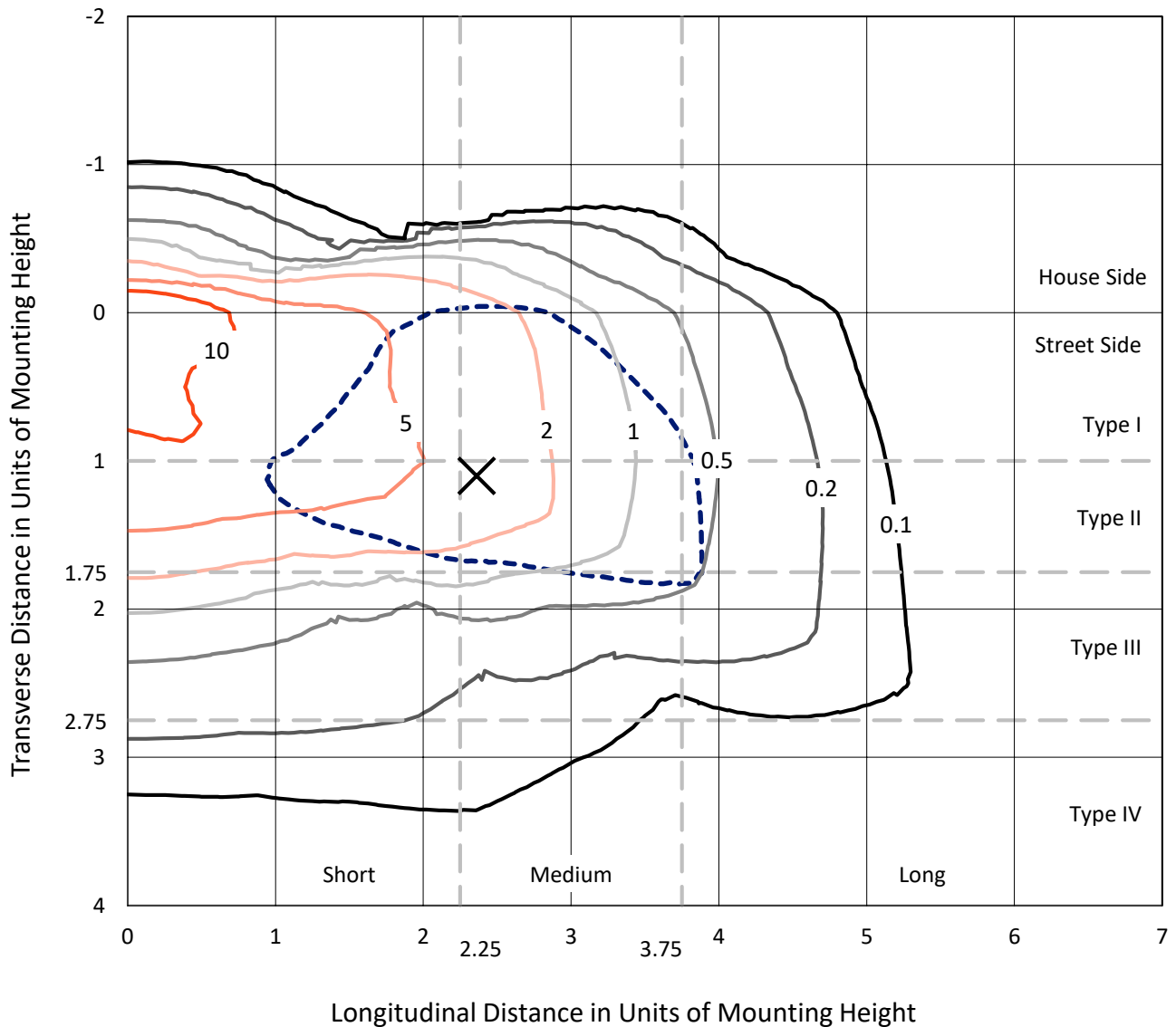
Input Watts (W): 501  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P323173  
 CATALOG NUMBER: GAN-SA9C-730-U-SL2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

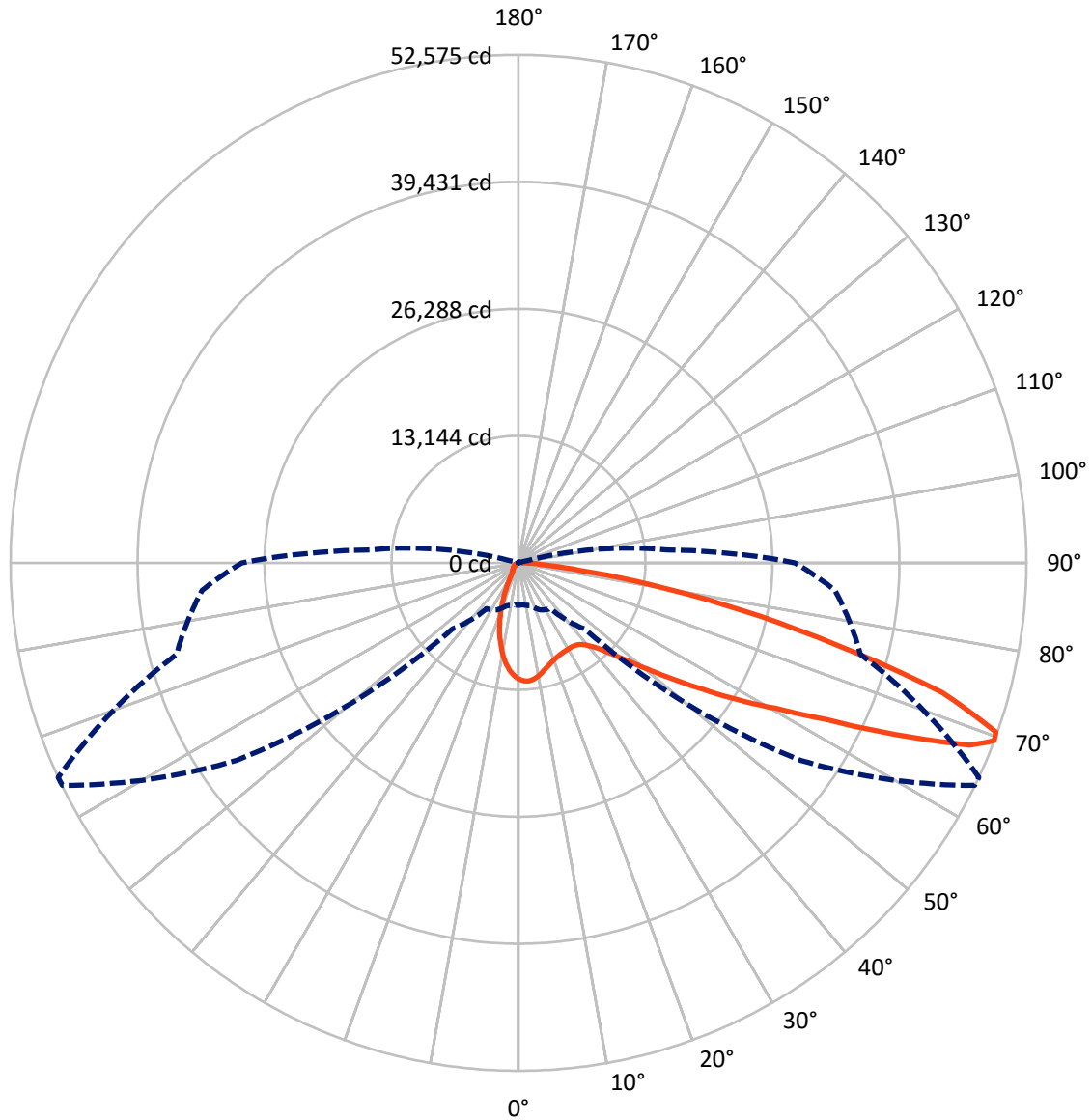
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.3 fc  
 Type III - Medium - N/A

REPORT NUMBER: P323173  
CATALOG NUMBER: GAN-SA9C-730-U-SL2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P323173  
 CATALOG NUMBER: GAN-SA9C-730-U-SL2-HSS

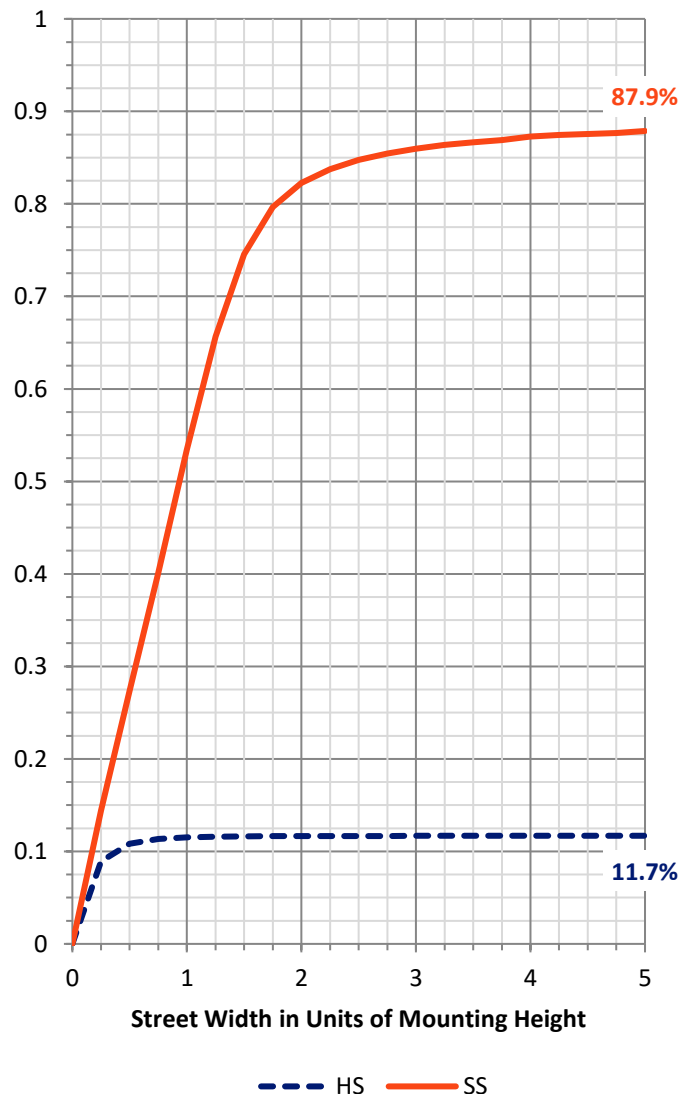
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5622.5   | 0.0    | 5622.5  |
|                    | % Fixture | 11.8     | 0.0    | 11.8    |
| <b>Street Side</b> | Lumens    | 42075.5  | 0.0    | 42075.5 |
|                    | % Fixture | 88.2     | 0.0    | 88.2    |
| <b>Total</b>       | Lumens    | 47698.0  | 0.0    | 47698.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1007.9  | 2.1       |
| 10°-20°   | 2206.4  | 4.6       |
| 20°-30°   | 3055.9  | 6.4       |
| 30°-40°   | 4260.9  | 8.9       |
| 40°-50°   | 6622.8  | 13.9      |
| 50°-60°   | 10632.2 | 22.3      |
| 60°-70°   | 12026.8 | 25.2      |
| 70°-80°   | 7063.4  | 14.8      |
| 80°-90°   | 821.7   | 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°    | 47698.0 | 100.0     |
| 0°-180°   | 47698.0 | 100.0     |

**Coefficient of Utilization**

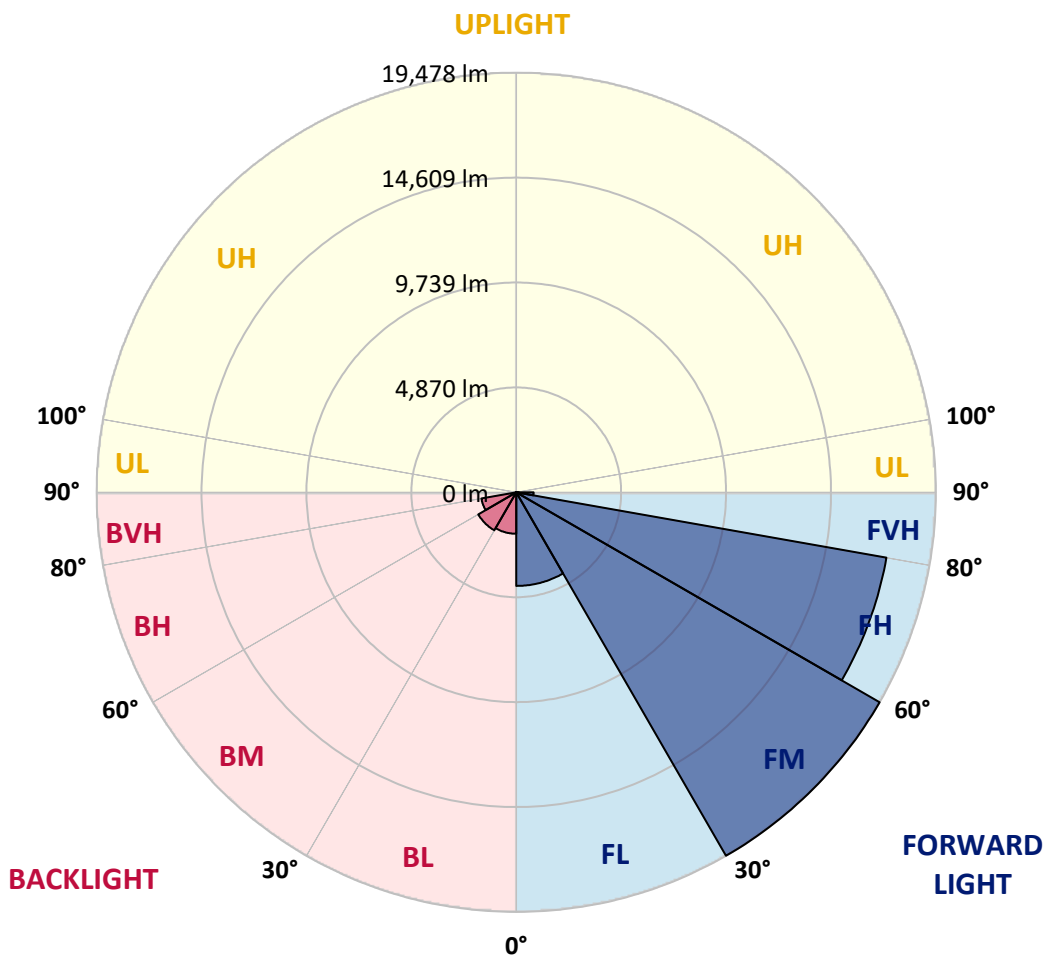


REPORT NUMBER: P323173  
 CATALOG NUMBER: GAN-SA9C-730-U-SL2-HSS

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4346.4  | 9.1       |                         |      |         |
| FM (30°-60°)   | 19478.5 | 40.8      |                         |      |         |
| FH (60°-80°)   | 17447.5 | 36.6      |                         |      | G5      |
| FVH (80°-90°)  | 803.2   | 1.7       |                         |      | G5      |
| BL (0°-30°)    | 1923.8  | 4.0       | B3/2500                 |      |         |
| BM (30°-60°)   | 2037.4  | 4.3       | B2/2500                 |      |         |
| BH (60°-80°)   | 1642.8  | 3.4       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 18.5    | 0.0       |                         |      | 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 III Medium





REPORT NUMBER: P323173

CATALOG NUMBER: GAN-SA9C-730-U-SL2-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 64°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12053.4 | 12053.4 | 12053.4 | 12053.4 | 12053.4 | 12053.4 | 12053.4 | 12053.4 | 12053.4 | 12053.4 | 12053.4 |
| 2.5°  | 12160.3 | 12130.1 | 12154.3 | 12206.8 | 12233.0 | 12233.0 | 12253.2 | 12229.0 | 12237.0 | 12178.5 | 12093.7 |
| 5°    | 11399.4 | 11353.0 | 11419.6 | 11567.0 | 11748.6 | 11904.0 | 12134.1 | 12255.2 | 12267.3 | 12269.3 | 12170.4 |
| 7.5°  | 10580.0 | 10537.6 | 10636.5 | 10810.1 | 11044.2 | 11332.8 | 11734.5 | 12085.7 | 12105.8 | 12295.6 | 12222.9 |
| 10°   | 9914.0  | 9883.7  | 9998.7  | 10184.4 | 10458.9 | 10781.8 | 11274.3 | 11762.7 | 11821.3 | 12241.1 | 12214.8 |
| 12.5° | 9385.2  | 9360.9  | 9469.9  | 9683.9  | 9964.4  | 10321.7 | 10836.3 | 11403.5 | 11482.2 | 12118.0 | 12174.5 |
| 15°   | 8999.7  | 8995.6  | 9086.4  | 9292.3  | 9603.1  | 9936.2  | 10462.9 | 11070.4 | 11161.3 | 11984.7 | 12168.4 |
| 17.5° | 8797.8  | 8803.9  | 8870.5  | 9046.1  | 9312.5  | 9643.5  | 10148.1 | 10789.9 | 10888.8 | 11865.7 | 12198.7 |
| 20°   | 8777.6  | 8783.7  | 8820.0  | 8918.9  | 9134.9  | 9427.5  | 9891.8  | 10553.8 | 10656.7 | 11776.9 | 12247.1 |
| 22.5° | 8955.3  | 8951.2  | 8961.3  | 8951.2  | 9072.3  | 9294.3  | 9722.2  | 10372.1 | 10491.2 | 11718.3 | 12285.5 |
| 25°   | 9296.4  | 9290.3  | 9286.3  | 9211.6  | 9130.9  | 9249.9  | 9651.6  | 10269.2 | 10382.2 | 11675.9 | 12307.7 |
| 27.5° | 9770.7  | 9766.6  | 9760.6  | 9637.4  | 9395.2  | 9320.6  | 9659.6  | 10230.8 | 10325.7 | 11641.6 | 12303.6 |
| 30°   | 10394.3 | 10422.6 | 10414.5 | 10242.9 | 9865.5  | 9536.5  | 9744.4  | 10210.6 | 10293.4 | 11575.0 | 12261.3 |
| 32.5° | 11127.0 | 11183.5 | 11227.9 | 11044.2 | 10571.9 | 9964.4  | 9940.2  | 10232.8 | 10293.4 | 11524.6 | 12184.6 |
| 35°   | 11887.9 | 11960.5 | 12124.0 | 12059.4 | 11437.8 | 10608.3 | 10277.3 | 10366.1 | 10416.5 | 11552.8 | 12148.2 |
| 37.5° | 12636.7 | 12723.4 | 13078.7 | 13266.4 | 12572.1 | 11460.0 | 10802.0 | 10695.0 | 10721.3 | 11724.4 | 12188.6 |
| 40°   | 13506.6 | 13637.7 | 14176.6 | 14479.4 | 13926.4 | 12600.3 | 11587.1 | 11260.2 | 11270.3 | 12101.8 | 12376.3 |
| 42.5° | 14648.9 | 14784.1 | 15367.4 | 15841.7 | 15452.2 | 14041.4 | 12652.8 | 12124.0 | 12113.9 | 12808.2 | 12818.3 |
| 45°   | 16041.6 | 16182.8 | 16786.3 | 17313.1 | 17137.5 | 15748.9 | 14017.2 | 13385.5 | 13373.3 | 13922.3 | 13655.9 |
| 47.5° | 17619.9 | 17759.1 | 18298.0 | 18841.0 | 19030.7 | 17743.0 | 15755.0 | 15107.1 | 15078.8 | 15470.4 | 14949.6 |
| 50°   | 18974.2 | 19065.0 | 19561.5 | 20292.1 | 21147.9 | 20193.2 | 17916.6 | 17292.9 | 17262.6 | 17527.0 | 16848.9 |
| 52.5° | 19466.6 | 19519.1 | 20023.7 | 21047.0 | 23182.3 | 23511.3 | 20756.3 | 19953.0 | 19930.8 | 20045.9 | 19377.8 |
| 55°   | 18469.6 | 18564.4 | 19184.1 | 20701.8 | 24284.3 | 27261.4 | 24340.9 | 23246.9 | 23079.4 | 22831.2 | 22021.8 |
| 57.5° | 15752.9 | 15904.3 | 16570.4 | 18588.7 | 23769.7 | 30236.4 | 29608.7 | 26972.7 | 26726.5 | 25208.7 | 24171.3 |
| 60°   | 11803.1 | 11988.8 | 12541.8 | 14719.6 | 21022.8 | 31296.0 | 35364.9 | 31124.4 | 30569.4 | 27101.9 | 26147.3 |
| 62.5° | 8099.5  | 8192.3  | 8567.7  | 9986.6  | 15482.5 | 29560.2 | 40180.6 | 36684.9 | 35671.7 | 29160.6 | 28284.6 |
| 65°   | 6186.1  | 6218.4  | 6371.8  | 6860.2  | 9219.7  | 24011.9 | 42096.0 | 44021.4 | 42796.3 | 31622.9 | 30502.8 |
| 67.5° | 4985.2  | 4959.0  | 5170.9  | 5869.3  | 6174.0  | 14648.9 | 39861.7 | 50962.4 | 50389.2 | 34914.8 | 32735.0 |
| 69°   | 4395.9  | 4359.6  | 4575.5  | 5386.9  | 5798.6  | 9683.9  | 35635.3 | 52538.7 | 52575.0 | 36652.6 | 32888.4 |
| 70°   | 3955.9  | 3980.1  | 4194.1  | 5100.3  | 5671.5  | 7601.0  | 31598.7 | 52137.1 | 52423.7 | 37302.5 | 31968.1 |
| 72.5° | 2642.0  | 2706.6  | 3136.5  | 4234.4  | 5453.5  | 5752.2  | 19079.1 | 44740.0 | 45842.0 | 35839.2 | 27426.9 |
| 75°   | 1489.5  | 1538.0  | 2048.6  | 3193.0  | 5138.6  | 5477.7  | 10077.4 | 32961.1 | 34026.7 | 29969.9 | 21149.9 |
| 77.5° | 730.6   | 756.9   | 1158.5  | 2060.7  | 4297.0  | 5219.4  | 5715.9  | 22389.2 | 23606.2 | 19561.5 | 11962.5 |
| 80°   | 308.8   | 322.9   | 579.3   | 1271.5  | 3071.9  | 4981.2  | 4244.5  | 13779.0 | 13930.4 | 7663.5  | 3186.9  |
| 82.5° | 119.1   | 123.1   | 244.2   | 793.2   | 1951.7  | 3883.2  | 3550.2  | 6533.3  | 6375.9  | 1443.1  | 726.6   |
| 85°   | 14.1    | 16.1    | 88.8    | 476.3   | 1085.9  | 1998.1  | 2884.2  | 2815.5  | 2605.6  | 286.6   | 373.4   |
| 87.5° | 0.0     | 0.0     | 6.1     | 145.3   | 322.9   | 936.5   | 1499.6  | 1168.6  | 1053.6  | 92.8    | 193.8   |
| 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: P323173  
 CATALOG NUMBER: GAN-SA9C-730-U-SL2-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12053.4 | 12053.4 | 12053.4 | 12053.4 | 12053.4 | 12053.4 | 12053.4 | 12053.4 | 12053.4 | 12053.4 | 12053.4 |
| 2.5°  | 12023.1 | 12002.9 | 11893.9 | 11736.5 | 11587.1 | 11401.5 | 11223.8 | 11116.9 | 11032.1 | 10975.6 | 11042.2 |
| 5°    | 12055.4 | 11966.6 | 11635.6 | 11211.7 | 10796.0 | 10327.7 | 9891.8  | 9522.4  | 9377.1  | 9215.6  | 9288.3  |
| 7.5°  | 12045.3 | 11877.8 | 11282.4 | 10527.5 | 9764.6  | 8975.4  | 8228.7  | 7653.4  | 7354.7  | 7062.1  | 7136.8  |
| 10°   | 11994.8 | 11712.3 | 10810.1 | 9691.9  | 8549.6  | 7415.3  | 6355.7  | 5550.4  | 5100.3  | 4692.6  | 4751.1  |
| 12.5° | 11883.8 | 11490.3 | 10253.0 | 8735.3  | 7207.4  | 5711.8  | 4470.6  | 3439.2  | 2886.2  | 2642.0  | 2672.2  |
| 15°   | 11817.2 | 11274.3 | 9663.7  | 7766.5  | 5774.4  | 3978.1  | 2732.8  | 2032.4  | 1780.2  | 1699.4  | 1709.5  |
| 17.5° | 11784.9 | 11066.4 | 9054.2  | 6658.4  | 4309.1  | 2533.0  | 1766.0  | 1558.1  | 1503.6  | 1489.5  | 1493.6  |
| 20°   | 11752.6 | 10856.5 | 8426.5  | 5562.5  | 2968.9  | 1703.5  | 1451.2  | 1390.6  | 1370.4  | 1352.3  | 1356.3  |
| 22.5° | 11698.1 | 10654.7 | 7752.3  | 4452.4  | 2002.2  | 1382.5  | 1307.9  | 1249.3  | 1207.0  | 1184.8  | 1188.8  |
| 25°   | 11631.5 | 10442.8 | 7064.1  | 3316.1  | 1461.3  | 1233.2  | 1162.5  | 1079.8  | 1029.3  | 989.0   | 991.0   |
| 27.5° | 11524.6 | 10182.4 | 6353.7  | 2413.9  | 1227.1  | 1104.0  | 1009.2  | 918.3   | 833.6   | 787.1   | 787.1   |
| 30°   | 11375.2 | 9887.7  | 5564.5  | 1727.7  | 1100.0  | 976.9   | 861.8   | 748.8   | 658.0   | 615.6   | 611.5   |
| 32.5° | 11209.7 | 9580.9  | 4767.3  | 1309.9  | 999.1   | 857.8   | 726.6   | 607.5   | 526.8   | 492.5   | 490.5   |
| 35°   | 11068.4 | 9249.9  | 3972.0  | 1098.0  | 898.1   | 742.7   | 599.4   | 498.5   | 433.9   | 405.7   | 403.7   |
| 37.5° | 10977.6 | 8918.9  | 3197.0  | 980.9   | 807.3   | 635.8   | 502.6   | 411.7   | 365.3   | 343.1   | 341.1   |
| 40°   | 10963.5 | 8672.7  | 2488.6  | 892.1   | 722.6   | 540.9   | 419.8   | 349.2   | 306.8   | 282.6   | 280.5   |
| 42.5° | 11147.1 | 8531.4  | 1909.3  | 817.4   | 635.8   | 458.2   | 357.2   | 298.7   | 254.3   | 230.1   | 228.1   |
| 45°   | 11629.5 | 8575.8  | 1469.3  | 750.8   | 549.0   | 387.5   | 302.7   | 248.3   | 207.9   | 189.7   | 185.7   |
| 47.5° | 12509.5 | 8882.6  | 1168.6  | 684.2   | 466.2   | 329.0   | 258.3   | 205.9   | 171.6   | 153.4   | 151.4   |
| 50°   | 14075.7 | 9603.1  | 976.9   | 611.5   | 389.5   | 280.5   | 213.9   | 167.5   | 139.3   | 123.1   | 121.1   |
| 52.5° | 16154.6 | 10886.8 | 871.9   | 540.9   | 322.9   | 238.2   | 175.6   | 133.2   | 109.0   | 96.9    | 94.9    |
| 55°   | 18447.4 | 12440.9 | 803.3   | 464.2   | 264.4   | 197.8   | 139.3   | 105.0   | 84.8    | 74.7    | 70.6    |
| 57.5° | 20685.7 | 13787.1 | 738.7   | 389.5   | 220.0   | 161.5   | 111.0   | 82.8    | 66.6    | 56.5    | 54.5    |
| 60°   | 22742.4 | 15024.3 | 664.0   | 312.8   | 179.6   | 127.2   | 86.8    | 64.6    | 52.5    | 42.4    | 42.4    |
| 62.5° | 24944.3 | 15981.0 | 561.1   | 244.2   | 147.3   | 96.9    | 70.6    | 58.5    | 42.4    | 36.3    | 34.3    |
| 65°   | 27277.5 | 16691.5 | 440.0   | 189.7   | 115.0   | 72.7    | 58.5    | 60.5    | 34.3    | 26.2    | 24.2    |
| 67.5° | 29001.1 | 16550.2 | 324.9   | 149.4   | 88.8    | 56.5    | 56.5    | 64.6    | 30.3    | 20.2    | 18.2    |
| 69°   | 28621.7 | 15401.8 | 272.5   | 129.2   | 76.7    | 48.4    | 52.5    | 64.6    | 28.3    | 18.2    | 16.1    |
| 70°   | 27521.7 | 14130.2 | 240.2   | 115.0   | 68.6    | 44.4    | 50.5    | 62.6    | 26.2    | 18.2    | 16.1    |
| 72.5° | 22920.0 | 10642.6 | 187.7   | 86.8    | 54.5    | 36.3    | 42.4    | 54.5    | 26.2    | 18.2    | 14.1    |
| 75°   | 17240.4 | 6811.8  | 143.3   | 62.6    | 40.4    | 28.3    | 32.3    | 40.4    | 26.2    | 16.1    | 14.1    |
| 77.5° | 9381.1  | 2456.3  | 102.9   | 42.4    | 28.3    | 22.2    | 22.2    | 30.3    | 24.2    | 12.1    | 8.1     |
| 80°   | 2411.9  | 617.6   | 64.6    | 28.3    | 22.2    | 16.1    | 14.1    | 20.2    | 14.1    | 2.0     | 0.0     |
| 82.5° | 595.4   | 139.3   | 34.3    | 20.2    | 16.1    | 6.1     | 6.1     | 10.1    | 6.1     | 0.0     | 0.0     |
| 85°   | 327.0   | 68.6    | 22.2    | 14.1    | 8.1     | 0.0     | 0.0     | 2.0     | 0.0     | 0.0     | 0.0     |
| 87.5° | 167.5   | 20.2    | 6.1     | 4.0     | 2.0     | 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     |

(END OF REPORT)