

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: P383309

Luminaire Tested: **GAN-SA6B-735-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383309  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA6B-735-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30254.8 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

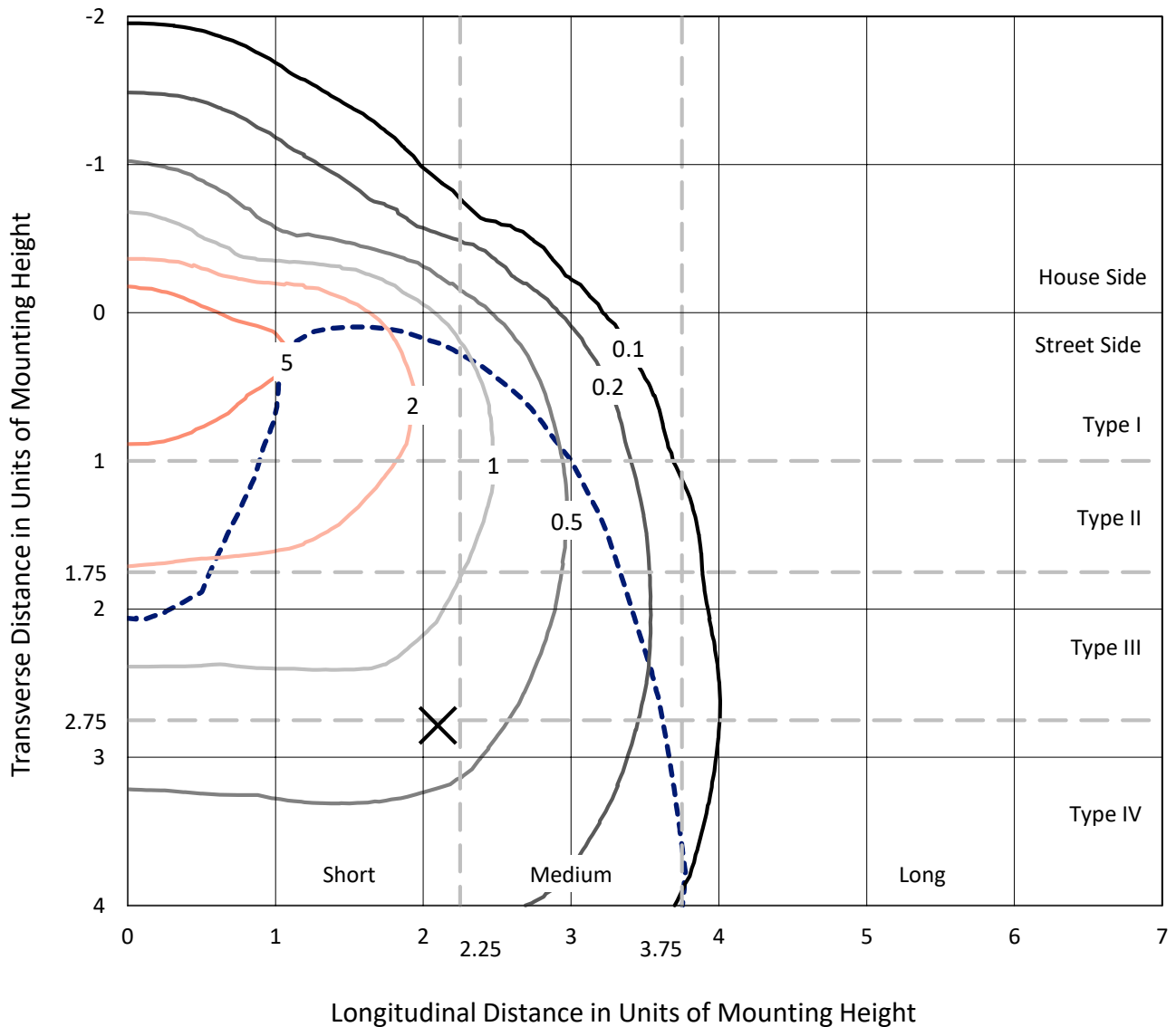
Input Watts (W): 249  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P383309  
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### Iso-Footcandle Lines of Horizontal Illumination

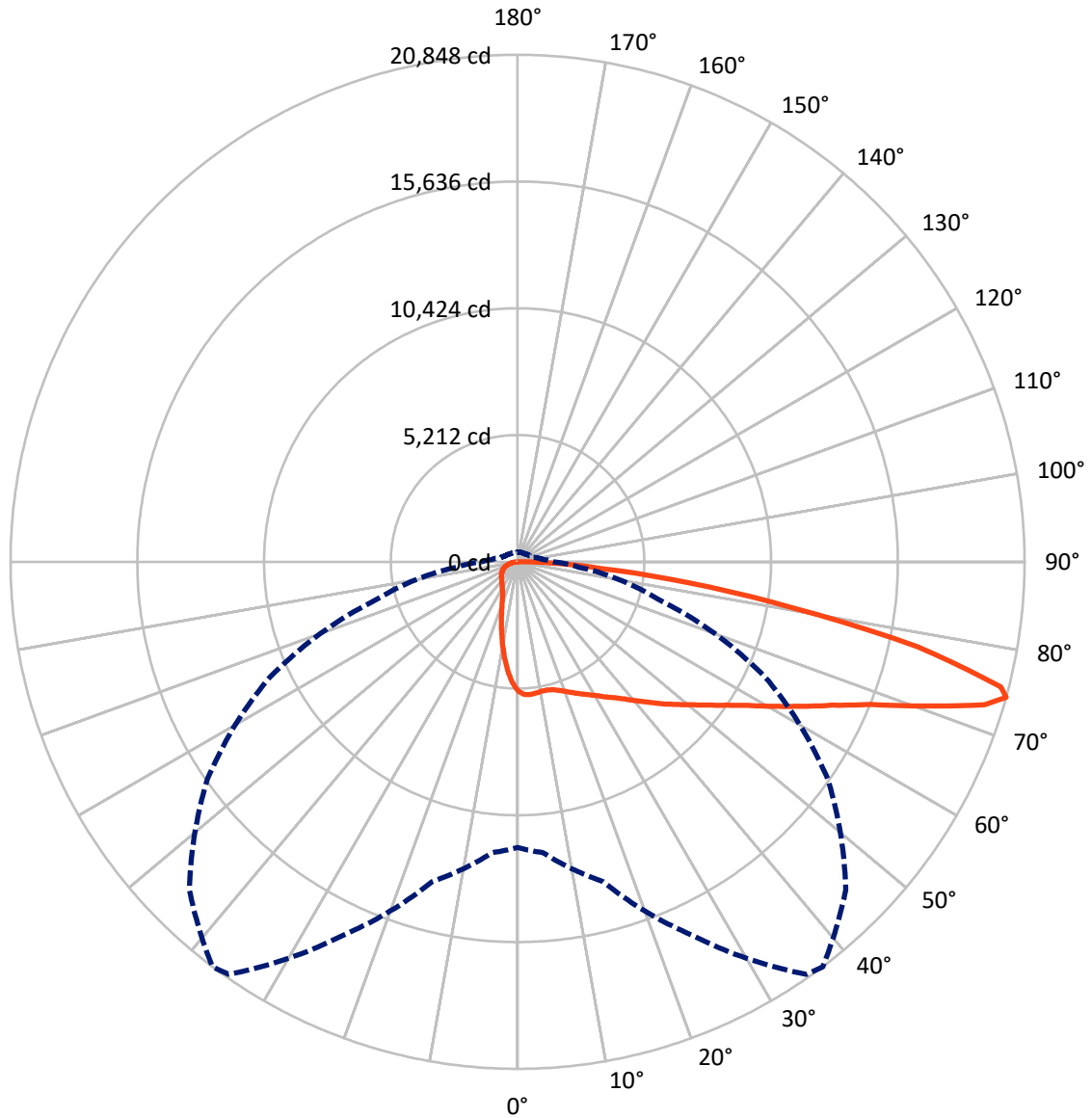
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type IV - Short - N/A

REPORT NUMBER: P383309  
CATALOG NUMBER: GAN-SA6B-735-U-SL4

### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P383309  
 CATALOG NUMBER: GAN-SA6B-735-U-SL4

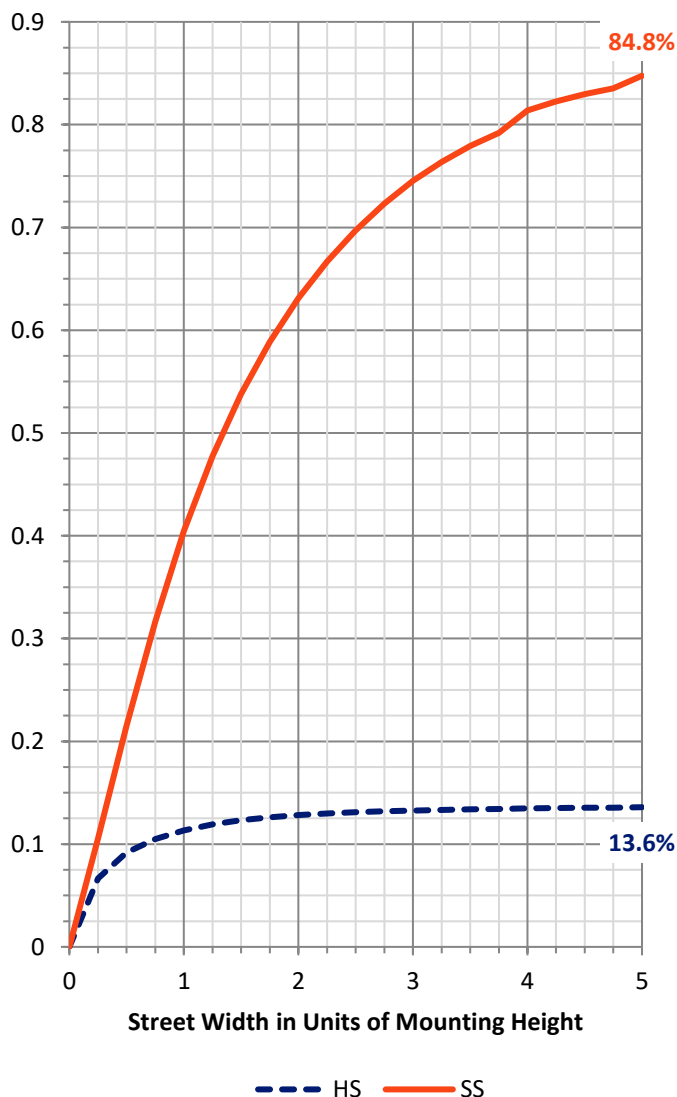
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4162.9   | 0.0    | 4162.9  |
|                    | % Fixture | 13.8     | 0.0    | 13.8    |
| <b>Street Side</b> | Lumens    | 26091.9  | 0.0    | 26091.9 |
|                    | % Fixture | 86.2     | 0.0    | 86.2    |
| <b>Total</b>       | Lumens    | 30254.8  | 0.0    | 30254.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 469.4   | 1.6       |
| 10°-20°   | 1203.3  | 4.0       |
| 20°-30°   | 1854.0  | 6.1       |
| 30°-40°   | 2696.0  | 8.9       |
| 40°-50°   | 3968.1  | 13.1      |
| 50°-60°   | 5572.5  | 18.4      |
| 60°-70°   | 7053.0  | 23.3      |
| 70°-80°   | 6210.5  | 20.5      |
| 80°-90°   | 1227.9  | 4.1       |
| 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°    | 30254.8 | 100.0     |
| 0°-180°   | 30254.8 | 100.0     |

**Coefficient of Utilization**

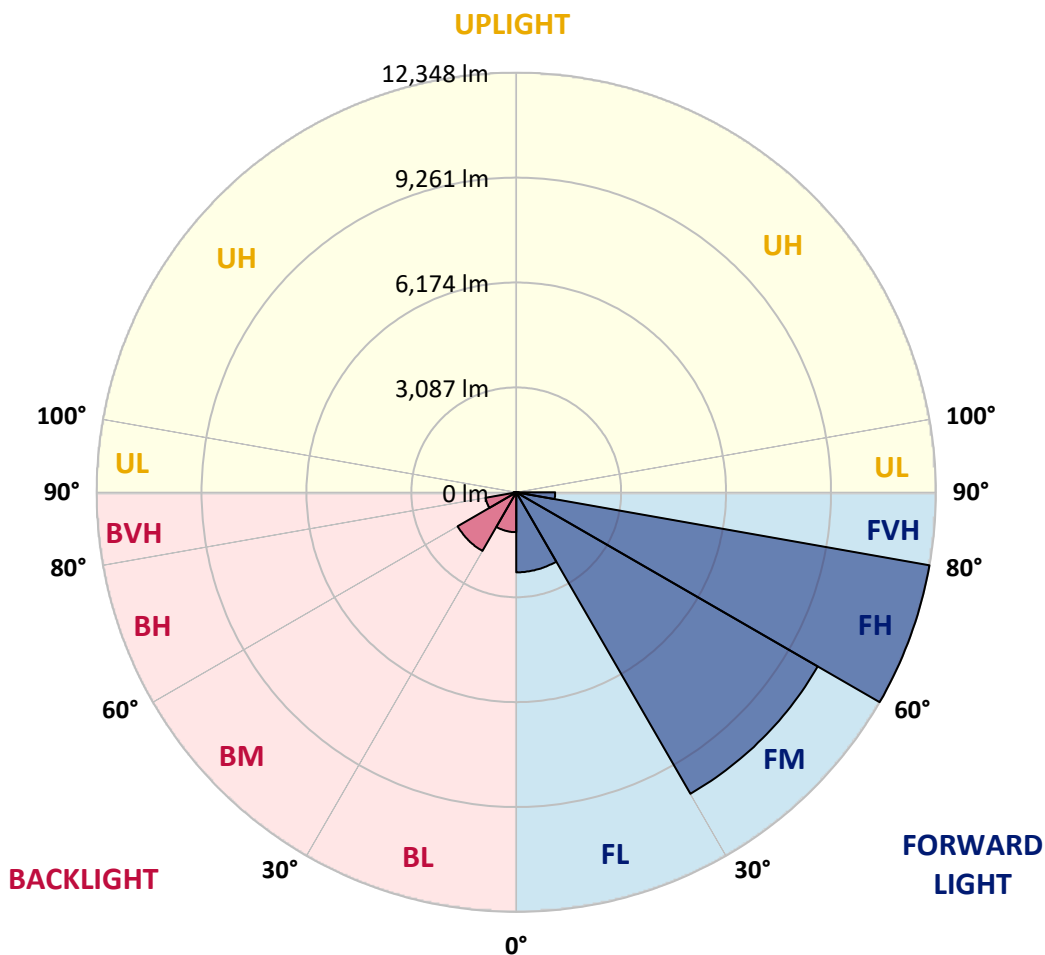


REPORT NUMBER: P383309  
 CATALOG NUMBER: GAN-SA6B-735-U-SL4

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2354.2  | 7.8       |                         |      |         |
| FM (30°-60°)   | 10244.5 | 33.9      |                         |      |         |
| FH (60°-80°)   | 12348.5 | 40.8      |                         |      | G5      |
| FVH (80°-90°)  | 1144.8  | 3.8       |                         |      | G5      |
| BL (0°-30°)    | 1172.6  | 3.9       | B3/2500                 |      |         |
| BM (30°-60°)   | 1992.1  | 6.6       | B2/2500                 |      |         |
| BH (60°-80°)   | 915.0   | 3.0       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 83.2    | 0.3       |                         |      | 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 IV Short





REPORT NUMBER: P383309

CATALOG NUMBER: GAN-SA6B-735-U-SL4

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 37°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5330.8  | 5330.8  | 5330.8  | 5330.8  | 5330.8  | 5330.8  | 5330.8  | 5330.8  | 5330.8  | 5330.8  | 5330.8  |
| 2.5°  | 5513.0  | 5514.1  | 5513.0  | 5504.5  | 5484.2  | 5467.2  | 5453.4  | 5433.1  | 5388.4  | 5354.3  | 5303.1  |
| 5°    | 5565.3  | 5558.8  | 5554.5  | 5538.6  | 5506.7  | 5487.5  | 5460.8  | 5422.4  | 5348.9  | 5280.7  | 5197.6  |
| 7.5°  | 5540.8  | 5533.3  | 5523.7  | 5504.5  | 5468.3  | 5452.3  | 5415.0  | 5364.9  | 5276.5  | 5187.0  | 5067.5  |
| 10°   | 5465.0  | 5463.0  | 5458.7  | 5454.4  | 5423.5  | 5410.7  | 5376.6  | 5323.3  | 5235.9  | 5127.2  | 4987.6  |
| 12.5° | 5380.9  | 5386.2  | 5403.3  | 5425.6  | 5411.7  | 5405.4  | 5384.1  | 5347.8  | 5258.3  | 5141.1  | 4972.7  |
| 15°   | 5327.6  | 5342.5  | 5388.4  | 5446.9  | 5458.7  | 5456.5  | 5451.2  | 5427.8  | 5332.9  | 5202.9  | 5006.8  |
| 17.5° | 5309.4  | 5333.9  | 5421.3  | 5518.3  | 5552.5  | 5559.9  | 5562.1  | 5521.6  | 5416.0  | 5278.5  | 5042.0  |
| 20°   | 5342.5  | 5373.4  | 5501.3  | 5634.5  | 5688.9  | 5693.2  | 5683.6  | 5613.2  | 5494.9  | 5343.5  | 5061.2  |
| 22.5° | 5442.7  | 5470.4  | 5630.3  | 5780.5  | 5842.3  | 5848.7  | 5819.9  | 5713.4  | 5578.0  | 5420.3  | 5087.8  |
| 25°   | 5635.6  | 5669.7  | 5829.5  | 5979.8  | 6011.7  | 6012.9  | 5971.3  | 5839.1  | 5686.7  | 5527.9  | 5145.3  |
| 27.5° | 5887.1  | 5921.2  | 6065.0  | 6212.1  | 6195.1  | 6185.5  | 6129.0  | 5996.8  | 5828.5  | 5676.1  | 5247.7  |
| 30°   | 6167.4  | 6204.7  | 6341.0  | 6445.6  | 6405.0  | 6385.9  | 6340.0  | 6169.5  | 6025.6  | 5878.5  | 5404.3  |
| 32.5° | 6457.3  | 6491.4  | 6610.7  | 6682.1  | 6630.9  | 6622.5  | 6553.2  | 6397.6  | 6282.5  | 6187.6  | 5657.9  |
| 35°   | 6754.6  | 6779.2  | 6896.3  | 6936.9  | 6868.7  | 6866.5  | 6847.3  | 6704.5  | 6632.1  | 6676.8  | 6026.7  |
| 37.5° | 7058.3  | 7064.8  | 7164.9  | 7167.0  | 7146.7  | 7155.3  | 7175.5  | 7086.0  | 7106.3  | 7245.9  | 6506.3  |
| 40°   | 7329.0  | 7346.1  | 7418.6  | 7440.9  | 7476.1  | 7505.9  | 7607.2  | 7548.5  | 7705.2  | 7952.4  | 7103.1  |
| 42.5° | 7529.4  | 7562.4  | 7678.6  | 7736.1  | 7850.2  | 7897.1  | 8039.9  | 8094.2  | 8409.6  | 8780.6  | 7812.9  |
| 45°   | 7698.9  | 7750.0  | 7936.5  | 8054.8  | 8247.6  | 8329.7  | 8534.4  | 8716.6  | 9205.7  | 9679.0  | 8559.9  |
| 47.5° | 7882.1  | 7947.1  | 8180.6  | 8406.5  | 8668.6  | 8761.4  | 9133.3  | 9406.1  | 10055.1 | 10582.7 | 9264.4  |
| 50°   | 8151.8  | 8201.8  | 8429.9  | 8784.8  | 9112.0  | 9231.4  | 9746.1  | 10137.2 | 10918.4 | 11443.8 | 9875.1  |
| 52.5° | 8527.9  | 8508.8  | 8701.7  | 9199.4  | 9638.4  | 9785.5  | 10400.4 | 10915.2 | 11793.4 | 12222.8 | 10390.9 |
| 55°   | 8906.3  | 8874.3  | 9009.6  | 9633.1  | 10252.3 | 10406.9 | 11120.9 | 11696.4 | 12625.7 | 12924.1 | 10786.2 |
| 57.5° | 9327.3  | 9266.5  | 9380.6  | 10122.3 | 10951.5 | 11135.8 | 11927.6 | 12526.6 | 13444.2 | 13491.0 | 11037.7 |
| 60°   | 9761.0  | 9679.0  | 9806.9  | 10728.7 | 11839.2 | 12056.6 | 12871.8 | 13336.5 | 14215.8 | 13945.1 | 11118.8 |
| 62.5° | 10140.5 | 10082.9 | 10280.0 | 11405.4 | 12839.9 | 13078.6 | 13799.1 | 14197.6 | 14976.7 | 14133.7 | 10826.7 |
| 65°   | 10471.9 | 10481.5 | 10822.4 | 12166.4 | 13955.7 | 14210.5 | 14862.7 | 15259.1 | 15575.7 | 14021.8 | 10143.6 |
| 67.5° | 10867.2 | 10921.6 | 11503.5 | 13168.2 | 15360.4 | 15639.6 | 16410.1 | 16416.5 | 15910.3 | 13365.3 | 8798.7  |
| 70°   | 11443.8 | 11555.7 | 12440.3 | 14557.9 | 17357.5 | 17741.2 | 18335.8 | 17096.4 | 15440.3 | 11585.6 | 6923.0  |
| 72.5° | 11955.4 | 12164.2 | 13436.7 | 16147.9 | 19791.7 | 20082.6 | 19462.4 | 16704.2 | 13476.1 | 8682.5  | 4313.0  |
| 74°   | 11747.6 | 12006.5 | 13617.9 | 16931.3 | 20708.2 | 20847.8 | 19081.9 | 15559.6 | 11236.0 | 6012.9  | 2506.6  |
| 75°   | 11300.0 | 11581.3 | 13353.5 | 16923.8 | 20592.0 | 20514.3 | 18163.2 | 14252.0 | 9253.7  | 4101.0  | 1667.8  |
| 77.5° | 9119.5  | 9416.8  | 11252.0 | 14504.6 | 16884.4 | 16810.8 | 13952.5 | 9560.7  | 4053.0  | 1345.0  | 847.2   |
| 80°   | 5302.0  | 5529.0  | 6984.8  | 9211.1  | 11385.2 | 11518.4 | 9175.9  | 4730.8  | 1594.3  | 755.6   | 574.4   |
| 82.5° | 2355.2  | 2511.9  | 3374.1  | 4702.0  | 6870.7  | 7042.3  | 4805.4  | 2478.8  | 984.7   | 459.3   | 345.3   |
| 85°   | 1545.3  | 1661.5  | 2048.3  | 2239.1  | 3271.8  | 3389.1  | 2352.1  | 1930.1  | 650.1   | 252.5   | 253.7   |
| 87.5° | 1111.5  | 1223.5  | 1521.9  | 1328.9  | 1501.7  | 1421.7  | 1279.9  | 1786.1  | 261.1   | 143.8   | 85.2    |
| 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: P383309  
 CATALOG NUMBER: GAN-SA6B-735-U-SL4

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5330.8 | 5330.8 | 5330.8 | 5330.8 | 5330.8 | 5330.8 | 5330.8 | 5330.8 | 5330.8 | 5330.8 | 5330.8 |
| 2.5°  | 5280.7 | 5263.6 | 5225.2 | 5152.8 | 5112.3 | 5078.2 | 5021.7 | 4988.7 | 4973.7 | 4972.7 | 4979.1 |
| 5°    | 5149.6 | 5110.2 | 5011.1 | 4889.6 | 4792.6 | 4704.1 | 4594.4 | 4528.3 | 4481.4 | 4453.7 | 4461.2 |
| 7.5°  | 4997.2 | 4935.4 | 4779.8 | 4585.8 | 4430.3 | 4258.7 | 4089.2 | 3988.0 | 3909.1 | 3850.5 | 3861.2 |
| 10°   | 4892.8 | 4807.5 | 4580.5 | 4301.3 | 4042.4 | 3792.9 | 3559.5 | 3419.9 | 3309.1 | 3223.8 | 3230.2 |
| 12.5° | 4857.6 | 4742.5 | 4428.1 | 4055.1 | 3691.7 | 3350.7 | 3045.9 | 2831.6 | 2717.6 | 2620.6 | 2628.1 |
| 15°   | 4863.0 | 4708.4 | 4300.2 | 3833.4 | 3376.2 | 2946.8 | 2576.9 | 2326.4 | 2172.0 | 2104.8 | 2105.9 |
| 17.5° | 4867.1 | 4668.9 | 4166.0 | 3595.8 | 3064.0 | 2569.5 | 2167.7 | 1914.1 | 1768.1 | 1706.2 | 1707.3 |
| 20°   | 4853.4 | 4605.0 | 3999.7 | 3322.9 | 2737.8 | 2223.1 | 1834.1 | 1618.8 | 1508.0 | 1460.0 | 1460.0 |
| 22.5° | 4835.2 | 4529.4 | 3812.1 | 3049.0 | 2416.0 | 1922.6 | 1595.4 | 1431.2 | 1367.3 | 1335.4 | 1334.3 |
| 25°   | 4843.8 | 4472.8 | 3620.3 | 2767.7 | 2119.7 | 1682.7 | 1436.6 | 1327.9 | 1285.3 | 1265.0 | 1263.9 |
| 27.5° | 4889.6 | 4446.2 | 3443.4 | 2487.4 | 1860.8 | 1502.7 | 1330.1 | 1253.3 | 1225.5 | 1212.8 | 1212.8 |
| 30°   | 4972.7 | 4446.2 | 3259.0 | 2248.7 | 1645.5 | 1369.5 | 1248.0 | 1195.7 | 1176.5 | 1168.1 | 1168.1 |
| 32.5° | 5117.6 | 4470.8 | 3081.0 | 2012.1 | 1473.9 | 1265.0 | 1179.8 | 1144.6 | 1129.7 | 1125.4 | 1125.4 |
| 35°   | 5367.0 | 4553.9 | 2907.3 | 1788.3 | 1335.4 | 1179.8 | 1114.8 | 1094.5 | 1083.9 | 1082.7 | 1086.0 |
| 37.5° | 5717.7 | 4723.3 | 2744.2 | 1623.1 | 1237.3 | 1110.5 | 1060.4 | 1044.5 | 1038.0 | 1043.3 | 1047.6 |
| 40°   | 6158.8 | 4953.5 | 2596.1 | 1473.9 | 1162.7 | 1055.1 | 1010.4 | 999.6  | 996.5  | 1003.9 | 1010.4 |
| 42.5° | 6691.7 | 5264.7 | 2474.7 | 1366.3 | 1105.2 | 1008.2 | 967.7  | 954.9  | 951.7  | 960.2  | 968.7  |
| 45°   | 7268.3 | 5599.3 | 2389.3 | 1286.4 | 1060.4 | 973.0  | 930.3  | 916.5  | 910.1  | 914.4  | 924.0  |
| 47.5° | 7792.6 | 5915.9 | 2355.2 | 1229.8 | 1017.8 | 943.2  | 897.4  | 880.3  | 869.6  | 867.6  | 875.0  |
| 50°   | 8234.9 | 6151.4 | 2371.3 | 1195.7 | 983.7  | 910.1  | 865.4  | 846.2  | 830.2  | 820.6  | 825.9  |
| 52.5° | 8556.7 | 6299.5 | 2386.2 | 1180.8 | 957.0  | 873.9  | 830.2  | 812.1  | 790.8  | 774.8  | 774.8  |
| 55°   | 8790.2 | 6333.6 | 2353.1 | 1169.1 | 936.8  | 834.5  | 790.8  | 773.7  | 752.4  | 734.2  | 732.2  |
| 57.5° | 8881.7 | 6237.7 | 2230.6 | 1152.0 | 922.9  | 797.1  | 749.2  | 736.4  | 718.3  | 697.0  | 696.0  |
| 60°   | 8758.1 | 5941.4 | 1994.0 | 1115.8 | 904.8  | 766.3  | 707.6  | 699.1  | 690.6  | 670.3  | 669.3  |
| 62.5° | 8261.5 | 5291.4 | 1688.2 | 1042.3 | 868.6  | 733.2  | 669.3  | 673.5  | 674.6  | 660.7  | 658.6  |
| 65°   | 7361.0 | 4398.3 | 1389.7 | 946.4  | 814.2  | 693.8  | 629.8  | 650.1  | 661.9  | 659.7  | 656.5  |
| 67.5° | 6052.3 | 3423.2 | 1177.7 | 845.1  | 742.8  | 639.4  | 587.2  | 610.6  | 620.2  | 627.7  | 625.6  |
| 70°   | 4492.0 | 2413.9 | 974.1  | 738.5  | 656.5  | 575.5  | 531.8  | 543.6  | 537.1  | 545.6  | 548.9  |
| 72.5° | 2504.5 | 1448.4 | 794.0  | 632.0  | 566.9  | 500.9  | 470.0  | 467.8  | 454.0  | 454.0  | 454.0  |
| 74°   | 1502.7 | 1062.5 | 698.0  | 565.9  | 512.6  | 451.9  | 425.3  | 415.7  | 402.8  | 403.9  | 402.8  |
| 75°   | 1208.5 | 913.3  | 640.5  | 522.2  | 474.3  | 423.1  | 396.5  | 383.7  | 374.1  | 374.1  | 373.0  |
| 77.5° | 763.0  | 693.8  | 515.8  | 415.7  | 379.4  | 348.5  | 330.4  | 313.3  | 313.3  | 312.3  | 311.2  |
| 80°   | 576.5  | 552.0  | 401.8  | 314.4  | 290.9  | 267.5  | 255.8  | 248.4  | 248.4  | 251.5  | 250.4  |
| 82.5° | 395.3  | 415.7  | 282.4  | 219.6  | 207.8  | 190.8  | 188.6  | 189.7  | 186.5  | 182.2  | 181.2  |
| 85°   | 288.8  | 312.3  | 190.8  | 138.5  | 126.8  | 116.2  | 124.7  | 128.9  | 123.6  | 114.0  | 109.7  |
| 87.5° | 110.9  | 204.7  | 102.3  | 57.6   | 53.3   | 45.8   | 53.3   | 55.4   | 59.7   | 46.9   | 48.0   |
| 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)