

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: P320038

Luminaire Tested: **GAN-SA4B-750-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320038
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-SA4B-750-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 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: 21904 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

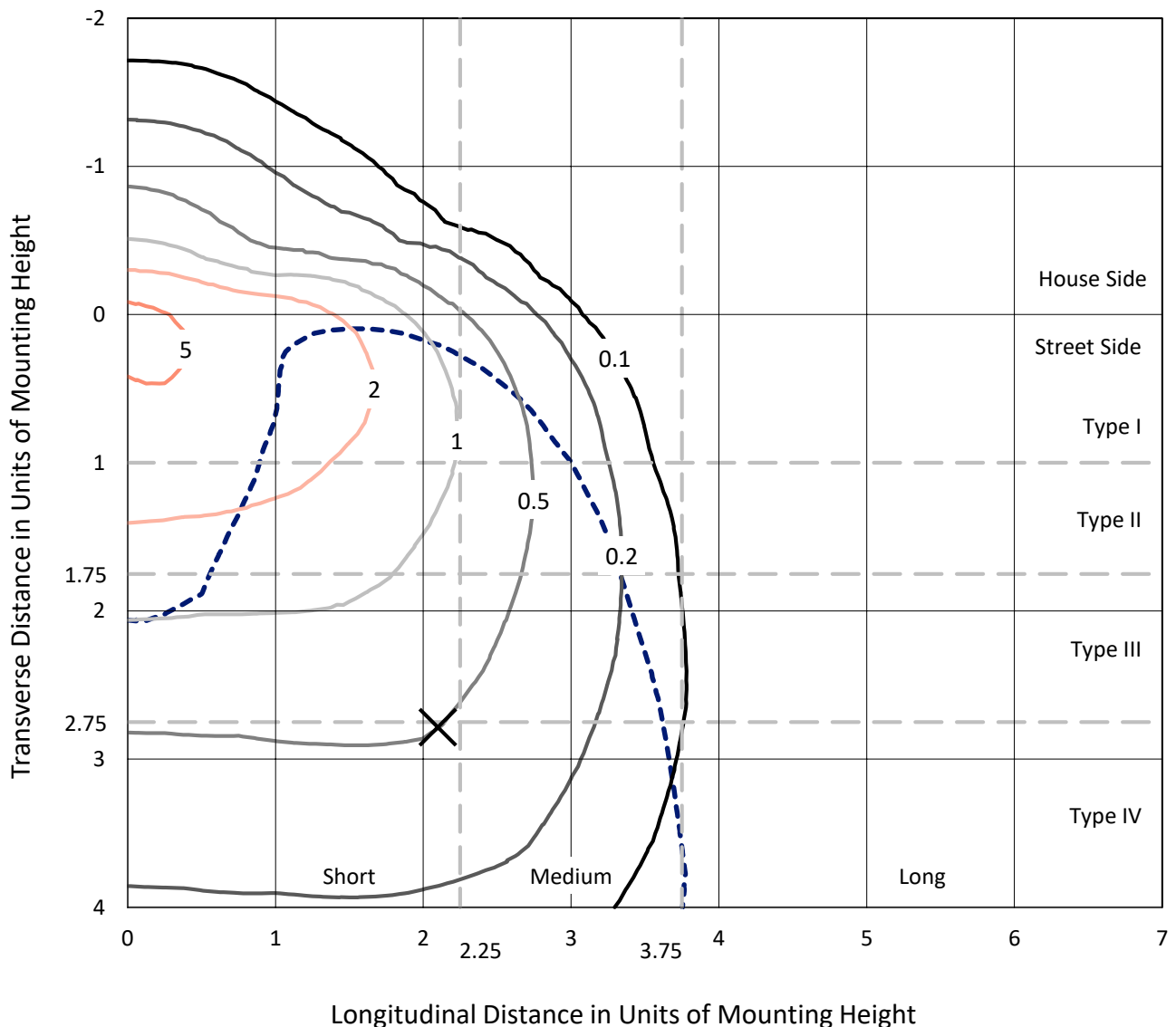
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P320038
 CATALOG NUMBER: GAN-SA4B-750-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

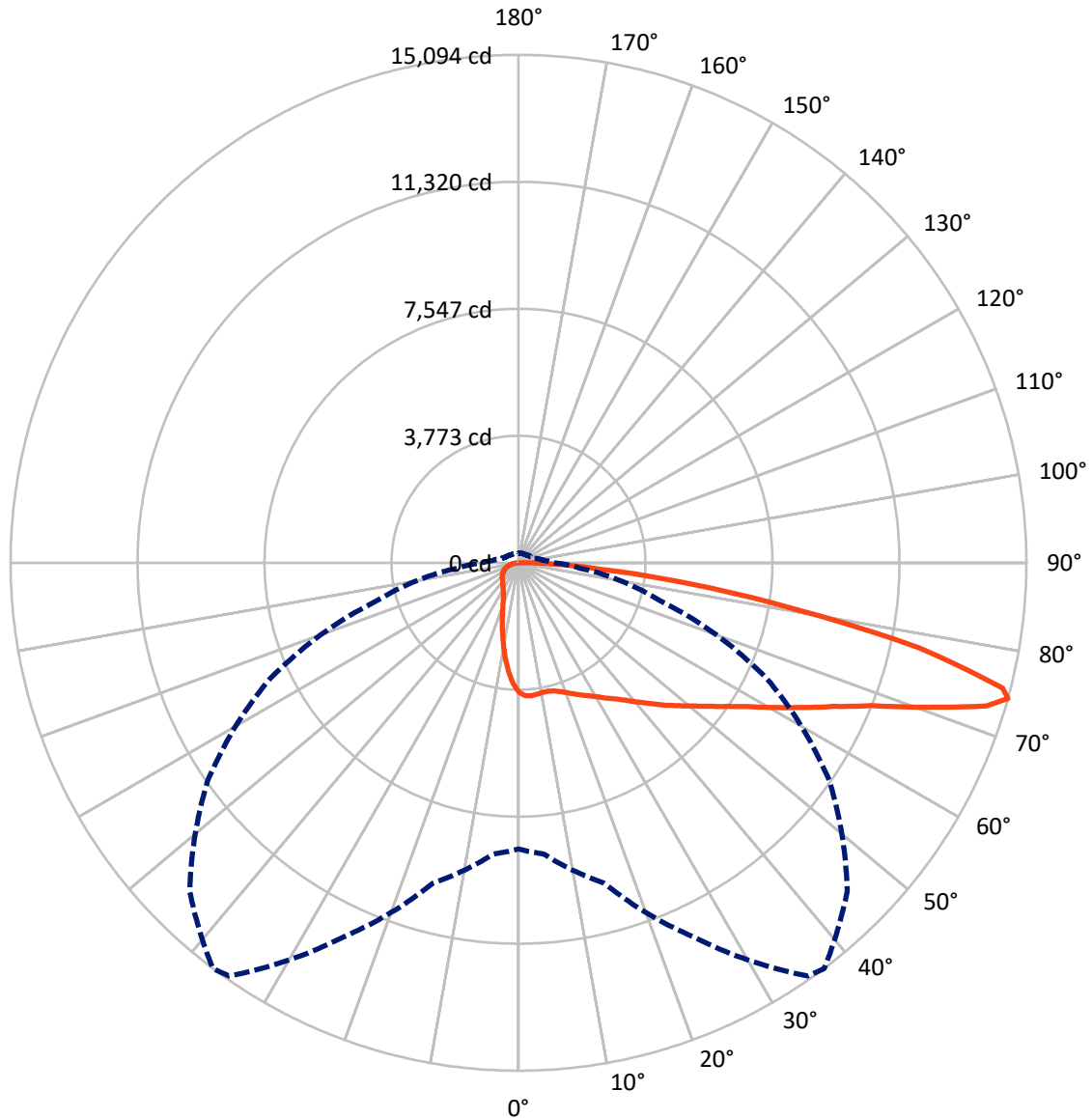
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P320038
CATALOG NUMBER: GAN-SA4B-750-U-SL4

Luminous Intensity Polar Plot



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

REPORT NUMBER: P320038
 CATALOG NUMBER: GAN-SA4B-750-U-SL4

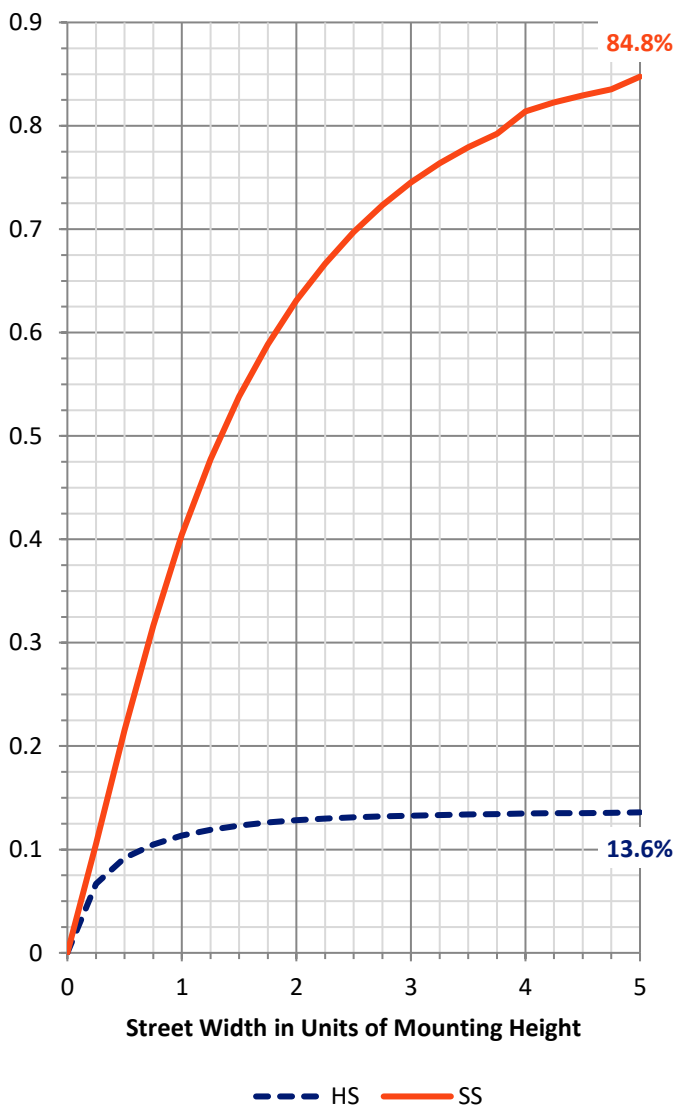
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3013.8 | 0.0 | 3013.8 |
| | % Fixture | 13.8 | 0.0 | 13.8 |
| Street Side | Lumens | 18890.2 | 0.0 | 18890.2 |
| | % Fixture | 86.2 | 0.0 | 86.2 |
| Total | Lumens | 21904.0 | 0.0 | 21904.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 339.9 | 1.6 |
| 10°-20° | 871.2 | 4.0 |
| 20°-30° | 1342.3 | 6.1 |
| 30°-40° | 1951.9 | 8.9 |
| 40°-50° | 2872.8 | 13.1 |
| 50°-60° | 4034.4 | 18.4 |
| 60°-70° | 5106.3 | 23.3 |
| 70°-80° | 4496.3 | 20.5 |
| 80°-90° | 889.0 | 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° | 21904.0 | 100.0 |
| 0°-180° | 21904.0 | 100.0 |

Coefficient of Utilization



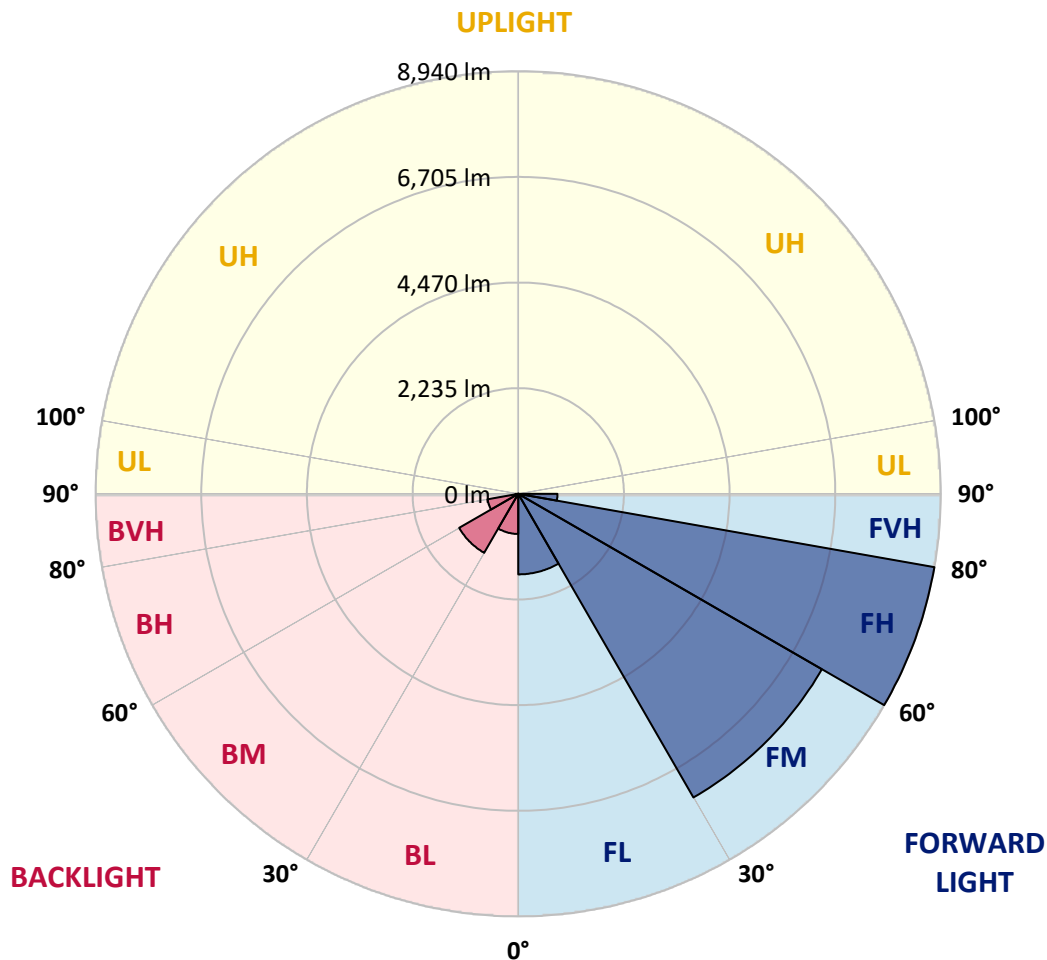
REPORT NUMBER: P320038
 CATALOG NUMBER: GAN-SA4B-750-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1704.4 | 7.8 | | | |
| FM (30°-60°) | 7416.9 | 33.9 | | | |
| FH (60°-80°) | 8940.1 | 40.8 | | | G4/12000 |
| FVH (80°-90°) | 828.8 | 3.8 | | | G5 |
| BL (0°-30°) | 848.9 | 3.9 | B2/1000 | | |
| BM (30°-60°) | 1442.2 | 6.6 | B2/2500 | | |
| BH (60°-80°) | 662.5 | 3.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 60.2 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G5

Type IV Short





REPORT NUMBER: P320038

CATALOG NUMBER: GAN-SA4B-750-U-SL4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 37° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 3859.4 | 3859.4 | 3859.4 | 3859.4 | 3859.4 | 3859.4 | 3859.4 | 3859.4 | 3859.4 | 3859.4 | 3859.4 |
| 2.5° | 3991.3 | 3992.1 | 3991.3 | 3985.2 | 3970.5 | 3958.2 | 3948.1 | 3933.5 | 3901.1 | 3876.4 | 3839.3 |
| 5° | 4029.1 | 4024.5 | 4021.4 | 4009.9 | 3986.7 | 3972.8 | 3953.5 | 3925.8 | 3872.5 | 3823.1 | 3763.0 |
| 7.5° | 4011.4 | 4006.0 | 3999.1 | 3985.2 | 3958.9 | 3947.4 | 3920.4 | 3884.1 | 3820.0 | 3755.2 | 3668.8 |
| 10° | 3956.6 | 3955.1 | 3952.0 | 3948.9 | 3926.5 | 3917.3 | 3892.6 | 3854.0 | 3790.7 | 3712.0 | 3611.0 |
| 12.5° | 3895.7 | 3899.5 | 3911.9 | 3928.1 | 3918.0 | 3913.4 | 3898.0 | 3871.7 | 3806.9 | 3722.1 | 3600.2 |
| 15° | 3857.1 | 3867.9 | 3901.1 | 3943.5 | 3952.0 | 3950.4 | 3946.6 | 3929.6 | 3860.9 | 3766.8 | 3624.8 |
| 17.5° | 3844.0 | 3861.7 | 3925.0 | 3995.2 | 4019.9 | 4025.3 | 4026.8 | 3997.5 | 3921.1 | 3821.6 | 3650.3 |
| 20° | 3867.9 | 3890.3 | 3982.9 | 4079.3 | 4118.6 | 4121.7 | 4114.8 | 4063.9 | 3978.2 | 3868.7 | 3664.2 |
| 22.5° | 3940.4 | 3960.5 | 4076.2 | 4185.0 | 4229.8 | 4234.4 | 4213.6 | 4136.4 | 4038.4 | 3924.2 | 3683.5 |
| 25° | 4080.1 | 4104.8 | 4220.5 | 4329.3 | 4352.4 | 4353.2 | 4323.1 | 4227.4 | 4117.1 | 4002.1 | 3725.1 |
| 27.5° | 4262.2 | 4286.9 | 4391.0 | 4497.5 | 4485.1 | 4478.2 | 4437.3 | 4341.6 | 4219.7 | 4109.4 | 3799.2 |
| 30° | 4465.1 | 4492.1 | 4590.8 | 4666.5 | 4637.1 | 4623.3 | 4590.1 | 4466.6 | 4362.5 | 4256.0 | 3912.6 |
| 32.5° | 4675.0 | 4699.6 | 4786.1 | 4837.8 | 4800.7 | 4794.5 | 4744.4 | 4631.7 | 4548.4 | 4479.7 | 4096.3 |
| 35° | 4890.2 | 4908.0 | 4992.8 | 5022.2 | 4972.8 | 4971.2 | 4957.3 | 4854.0 | 4801.5 | 4833.9 | 4363.2 |
| 37.5° | 5110.1 | 5114.7 | 5187.3 | 5188.8 | 5174.2 | 5180.3 | 5195.0 | 5130.2 | 5144.8 | 5245.9 | 4710.4 |
| 40° | 5306.1 | 5318.4 | 5370.9 | 5387.1 | 5412.6 | 5434.2 | 5507.5 | 5465.0 | 5578.5 | 5757.5 | 5142.5 |
| 42.5° | 5451.2 | 5475.1 | 5559.2 | 5600.8 | 5683.4 | 5717.3 | 5820.7 | 5860.1 | 6088.5 | 6357.0 | 5656.4 |
| 45° | 5573.8 | 5610.9 | 5745.9 | 5831.5 | 5971.2 | 6030.6 | 6178.7 | 6310.7 | 6664.8 | 7007.4 | 6197.3 |
| 47.5° | 5706.5 | 5753.6 | 5922.6 | 6086.2 | 6276.0 | 6343.1 | 6612.4 | 6809.9 | 7279.8 | 7661.7 | 6707.3 |
| 50° | 5901.7 | 5938.0 | 6103.1 | 6360.1 | 6596.9 | 6683.4 | 7056.0 | 7339.2 | 7904.7 | 8285.1 | 7149.4 |
| 52.5° | 6174.1 | 6160.2 | 6299.9 | 6660.2 | 6978.1 | 7084.6 | 7529.8 | 7902.4 | 8538.2 | 8849.2 | 7522.8 |
| 55° | 6448.0 | 6424.9 | 6522.9 | 6974.2 | 7422.5 | 7534.4 | 8051.3 | 8468.0 | 9140.8 | 9356.8 | 7809.1 |
| 57.5° | 6752.8 | 6708.8 | 6791.4 | 7328.4 | 7928.7 | 8062.1 | 8635.4 | 9069.0 | 9733.4 | 9767.3 | 7991.2 |
| 60° | 7066.8 | 7007.4 | 7100.0 | 7767.4 | 8571.4 | 8728.8 | 9319.0 | 9655.4 | 10292.0 | 10096.0 | 8049.8 |
| 62.5° | 7341.5 | 7299.8 | 7442.6 | 8257.4 | 9295.9 | 9468.7 | 9990.3 | 10278.9 | 10842.9 | 10232.6 | 7838.4 |
| 65° | 7581.5 | 7588.4 | 7835.3 | 8808.3 | 10103.7 | 10288.1 | 10760.3 | 11047.4 | 11276.5 | 10151.6 | 7343.8 |
| 67.5° | 7867.7 | 7907.1 | 8328.3 | 9533.5 | 11120.7 | 11322.8 | 11880.7 | 11885.3 | 11518.8 | 9676.3 | 6370.1 |
| 70° | 8285.1 | 8366.1 | 9006.6 | 10539.7 | 12566.6 | 12844.3 | 13274.9 | 12377.5 | 11178.5 | 8387.8 | 5012.1 |
| 72.5° | 8655.5 | 8806.7 | 9728.0 | 11690.8 | 14328.9 | 14539.5 | 14090.4 | 12093.6 | 9756.5 | 6286.0 | 3122.5 |
| 74° | 8505.0 | 8692.5 | 9859.1 | 12258.0 | 14992.4 | 15093.5 | 13815.0 | 11264.9 | 8134.7 | 4353.2 | 1814.7 |
| 75° | 8181.0 | 8384.7 | 9667.8 | 12252.6 | 14908.3 | 14852.0 | 13149.9 | 10318.2 | 6699.6 | 2969.0 | 1207.5 |
| 77.5° | 6602.3 | 6817.6 | 8146.3 | 10501.1 | 12224.0 | 12170.8 | 10101.4 | 6921.8 | 2934.3 | 973.7 | 613.4 |
| 80° | 3838.6 | 4002.9 | 5056.9 | 6668.7 | 8242.7 | 8339.1 | 6643.2 | 3425.0 | 1154.3 | 547.0 | 415.9 |
| 82.5° | 1705.2 | 1818.6 | 2442.8 | 3404.2 | 4974.3 | 5098.5 | 3479.0 | 1794.7 | 712.9 | 332.5 | 250.0 |
| 85° | 1118.8 | 1202.9 | 1483.0 | 1621.1 | 2368.7 | 2453.6 | 1702.9 | 1397.3 | 470.7 | 182.9 | 183.6 |
| 87.5° | 804.7 | 885.8 | 1101.8 | 962.1 | 1087.1 | 1029.3 | 926.7 | 1293.2 | 189.0 | 104.2 | 61.7 |
| 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: P320038
 CATALOG NUMBER: GAN-SA4B-750-U-SL4

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3859.4 | 3859.4 | 3859.4 | 3859.4 | 3859.4 | 3859.4 | 3859.4 | 3859.4 | 3859.4 | 3859.4 | 3859.4 |
| 2.5° | 3823.1 | 3810.8 | 3783.0 | 3730.5 | 3701.2 | 3676.5 | 3635.6 | 3611.7 | 3600.9 | 3600.2 | 3604.8 |
| 5° | 3728.2 | 3699.7 | 3627.9 | 3540.0 | 3469.8 | 3405.7 | 3326.2 | 3278.4 | 3244.5 | 3224.4 | 3229.8 |
| 7.5° | 3617.9 | 3573.1 | 3460.5 | 3320.1 | 3207.4 | 3083.2 | 2960.5 | 2887.2 | 2830.1 | 2787.7 | 2795.4 |
| 10° | 3542.3 | 3480.6 | 3316.2 | 3114.1 | 2926.6 | 2746.0 | 2577.0 | 2476.0 | 2395.7 | 2334.0 | 2338.6 |
| 12.5° | 3516.8 | 3433.5 | 3205.9 | 2935.8 | 2672.7 | 2425.8 | 2205.2 | 2050.1 | 1967.5 | 1897.3 | 1902.7 |
| 15° | 3520.7 | 3408.8 | 3113.3 | 2775.3 | 2444.3 | 2133.4 | 1865.7 | 1684.3 | 1572.5 | 1523.9 | 1524.6 |
| 17.5° | 3523.8 | 3380.3 | 3016.1 | 2603.3 | 2218.3 | 1860.3 | 1569.4 | 1385.7 | 1280.0 | 1235.3 | 1236.1 |
| 20° | 3513.7 | 3334.0 | 2895.7 | 2405.8 | 1982.2 | 1609.5 | 1327.9 | 1172.0 | 1091.8 | 1057.1 | 1057.1 |
| 22.5° | 3500.6 | 3279.2 | 2759.9 | 2207.5 | 1749.2 | 1391.9 | 1155.0 | 1036.2 | 989.9 | 966.8 | 966.0 |
| 25° | 3506.8 | 3238.3 | 2621.0 | 2003.8 | 1534.7 | 1218.3 | 1040.1 | 961.4 | 930.5 | 915.9 | 915.1 |
| 27.5° | 3540.0 | 3219.0 | 2492.9 | 1800.8 | 1347.2 | 1087.9 | 962.9 | 907.4 | 887.3 | 878.0 | 878.0 |
| 30° | 3600.2 | 3219.0 | 2359.5 | 1628.0 | 1191.3 | 991.5 | 903.5 | 865.7 | 851.8 | 845.6 | 845.6 |
| 32.5° | 3705.1 | 3236.7 | 2230.6 | 1456.7 | 1067.1 | 915.9 | 854.1 | 828.7 | 817.9 | 814.8 | 814.8 |
| 35° | 3885.6 | 3296.9 | 2104.8 | 1294.7 | 966.8 | 854.1 | 807.1 | 792.4 | 784.7 | 783.9 | 786.2 |
| 37.5° | 4139.5 | 3419.6 | 1986.8 | 1175.1 | 895.8 | 804.0 | 767.7 | 756.1 | 751.5 | 755.4 | 758.5 |
| 40° | 4458.9 | 3586.3 | 1879.5 | 1067.1 | 841.8 | 763.9 | 731.4 | 723.7 | 721.4 | 726.8 | 731.4 |
| 42.5° | 4844.7 | 3811.6 | 1791.6 | 989.2 | 800.1 | 729.9 | 700.6 | 691.3 | 689.0 | 695.2 | 701.4 |
| 45° | 5262.1 | 4053.8 | 1729.9 | 931.3 | 767.7 | 704.4 | 673.6 | 663.6 | 658.9 | 662.0 | 669.0 |
| 47.5° | 5641.7 | 4283.0 | 1705.2 | 890.4 | 736.9 | 682.8 | 649.7 | 637.3 | 629.6 | 628.1 | 633.5 |
| 50° | 5961.9 | 4453.5 | 1716.7 | 865.7 | 712.2 | 658.9 | 626.5 | 612.6 | 601.1 | 594.1 | 598.0 |
| 52.5° | 6194.9 | 4560.8 | 1727.5 | 854.9 | 692.9 | 632.7 | 601.1 | 587.9 | 572.5 | 560.9 | 560.9 |
| 55° | 6363.9 | 4585.4 | 1703.6 | 846.4 | 678.2 | 604.1 | 572.5 | 560.2 | 544.7 | 531.6 | 530.1 |
| 57.5° | 6430.3 | 4516.0 | 1614.9 | 834.1 | 668.2 | 577.1 | 542.4 | 533.2 | 520.0 | 504.6 | 503.8 |
| 60° | 6340.8 | 4301.5 | 1443.6 | 807.8 | 655.1 | 554.8 | 512.3 | 506.2 | 500.0 | 485.3 | 484.5 |
| 62.5° | 5981.2 | 3830.9 | 1222.2 | 754.6 | 628.8 | 530.8 | 484.5 | 487.6 | 488.4 | 478.4 | 476.8 |
| 65° | 5329.2 | 3184.3 | 1006.1 | 685.2 | 589.5 | 502.3 | 456.0 | 470.7 | 479.1 | 477.6 | 475.3 |
| 67.5° | 4381.8 | 2478.3 | 852.6 | 611.9 | 537.8 | 462.9 | 425.1 | 442.1 | 449.1 | 454.5 | 452.9 |
| 70° | 3252.2 | 1747.6 | 705.2 | 534.7 | 475.3 | 416.6 | 385.0 | 393.5 | 388.9 | 395.0 | 397.4 |
| 72.5° | 1813.2 | 1048.6 | 574.8 | 457.5 | 410.5 | 362.6 | 340.3 | 338.7 | 328.7 | 328.7 | 328.7 |
| 74° | 1087.9 | 769.3 | 505.4 | 409.7 | 371.1 | 327.1 | 307.9 | 300.9 | 291.7 | 292.4 | 291.7 |
| 75° | 875.0 | 661.2 | 463.7 | 378.1 | 343.3 | 306.3 | 287.0 | 277.8 | 270.8 | 270.8 | 270.0 |
| 77.5° | 552.4 | 502.3 | 373.4 | 300.9 | 274.7 | 252.3 | 239.2 | 226.8 | 226.8 | 226.1 | 225.3 |
| 80° | 417.4 | 399.7 | 290.9 | 227.6 | 210.6 | 193.7 | 185.2 | 179.8 | 179.8 | 182.1 | 181.3 |
| 82.5° | 286.3 | 300.9 | 204.5 | 158.9 | 150.5 | 138.1 | 136.6 | 137.3 | 135.0 | 131.9 | 131.2 |
| 85° | 209.1 | 226.1 | 138.1 | 100.3 | 91.8 | 84.1 | 90.3 | 93.4 | 89.5 | 82.6 | 79.5 |
| 87.5° | 80.2 | 148.1 | 74.1 | 41.7 | 38.6 | 33.2 | 38.6 | 40.1 | 43.2 | 33.9 | 34.7 |
| 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)