

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: P322924

Luminaire Tested: **GAN-SA0B-750-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0B-750-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40996 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

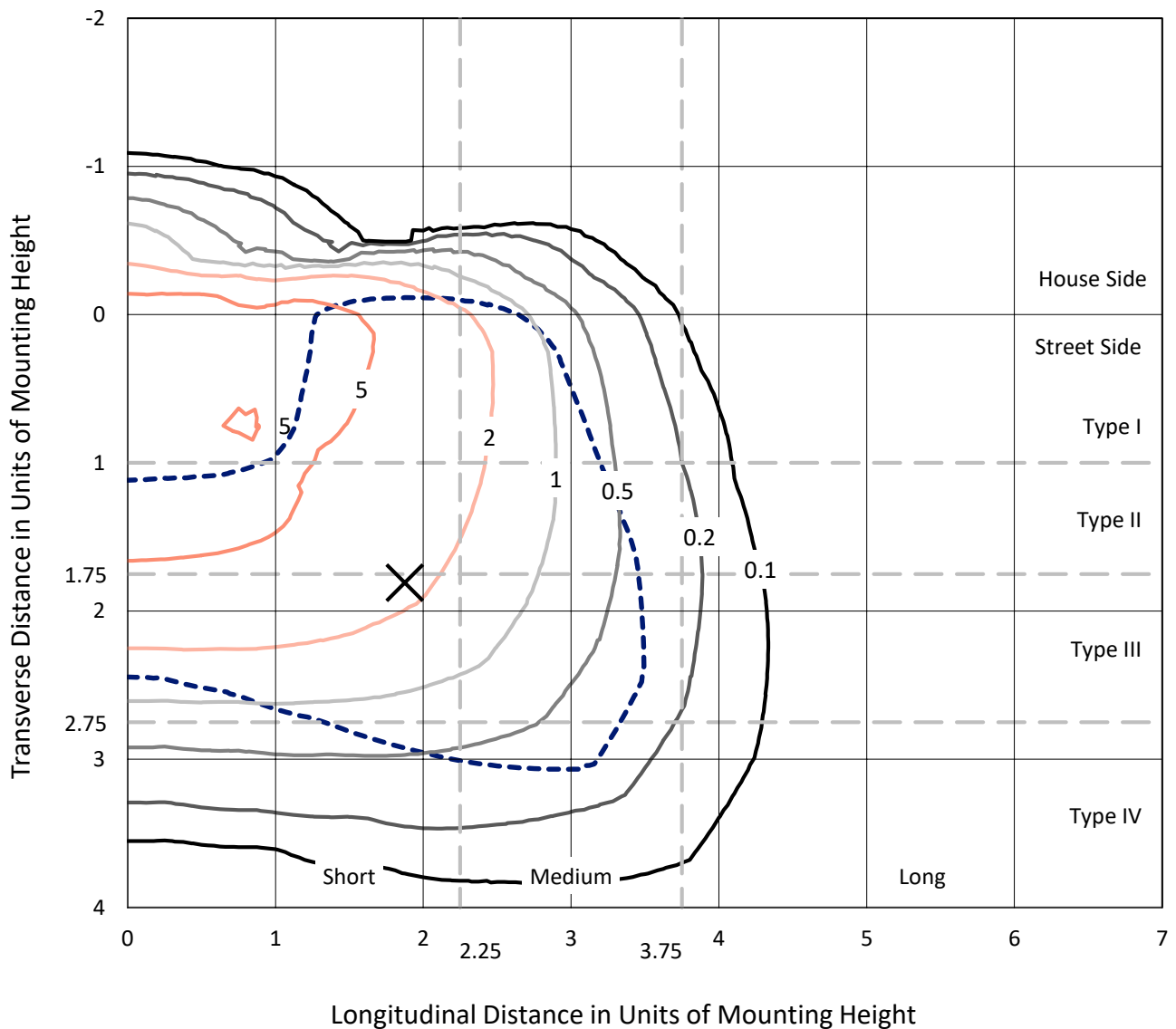
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

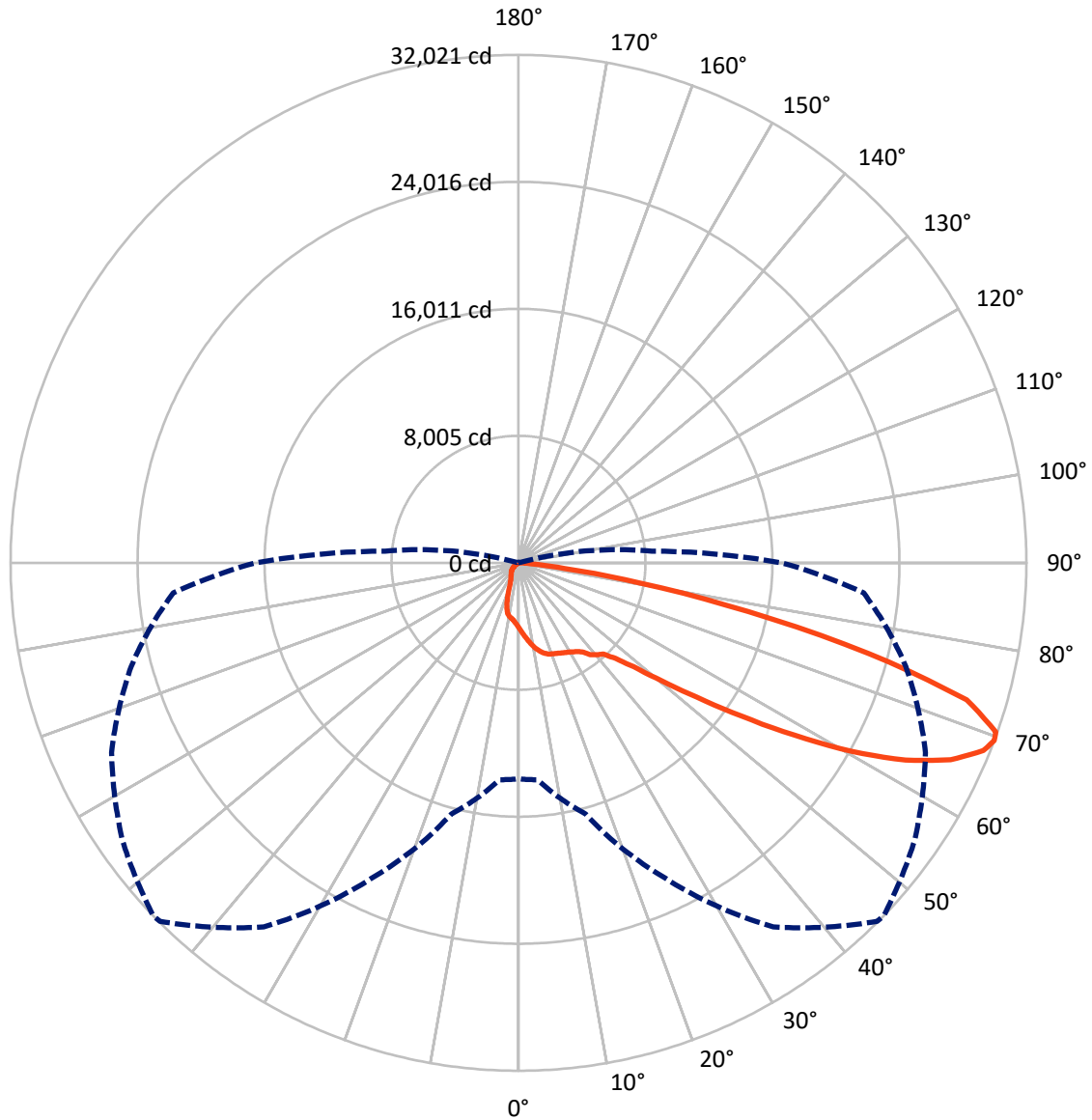
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4207.3 | 0.0 | 4207.3 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 36788.7 | 0.0 | 36788.7 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 40996.0 | 0.0 | 40996.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 408.9 | 1.0 |
| 10°-20° | 1240.4 | 3.0 |
| 20°-30° | 1950.7 | 4.8 |
| 30°-40° | 2797.3 | 6.8 |
| 40°-50° | 4834.8 | 11.8 |
| 50°-60° | 9551.5 | 23.3 |
| 60°-70° | 13349.1 | 32.6 |
| 70°-80° | 6449.0 | 15.7 |
| 80°-90° | 414.5 | 1.0 |
| 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° | 40996.0 | 100.0 |
| 0°-180° | 40996.0 | 100.0 |



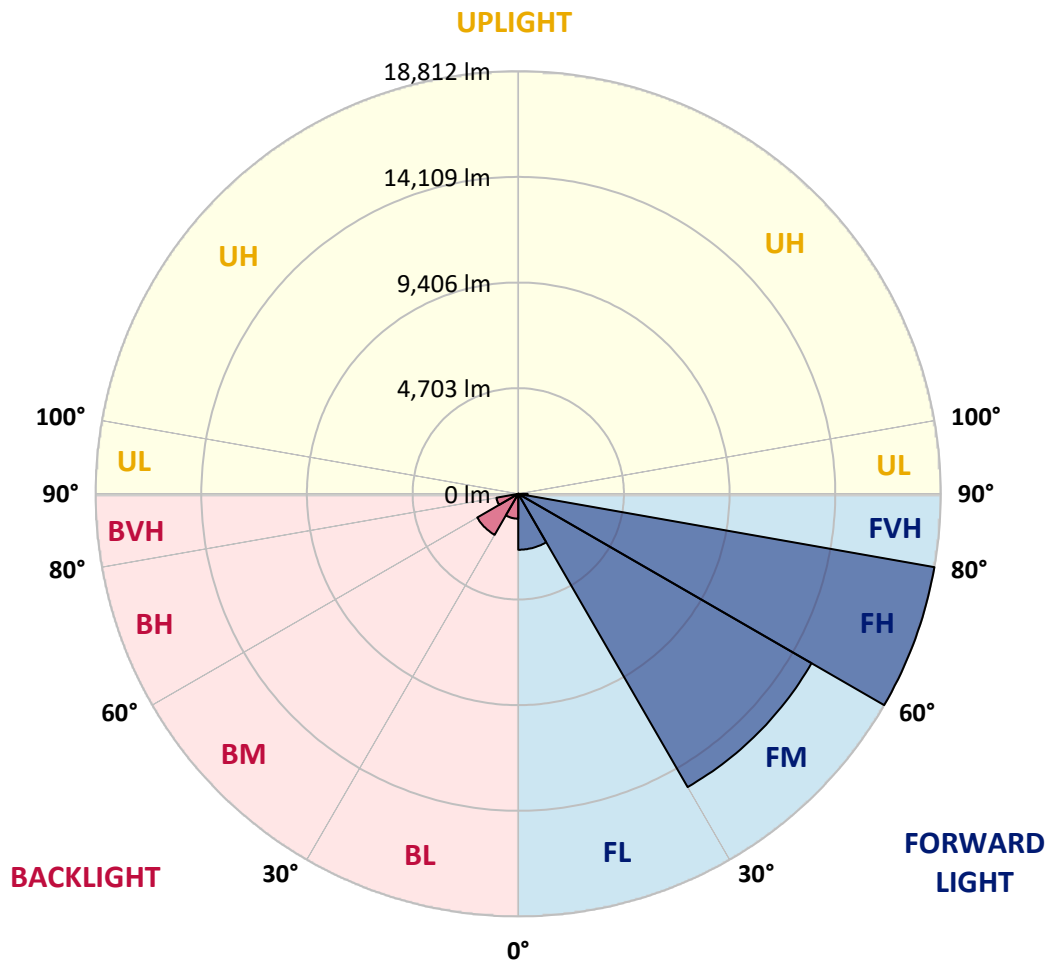
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2491.0 | 6.1 | | | |
| FM (30°-60°) | 15075.1 | 36.8 | | | |
| FH (60°-80°) | 18811.6 | 45.9 | | | G5 |
| FVH (80°-90°) | 411.0 | 1.0 | | | G3/500 |
| BL (0°-30°) | 1108.9 | 2.7 | B3/2500 | | |
| BM (30°-60°) | 2108.4 | 5.1 | B2/2500 | | |
| BH (60°-80°) | 986.5 | 2.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 3.5 | 0.0 | | | G0/10 |
| 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4107.6 | 4107.6 | 4107.6 | 4107.6 | 4107.6 | 4107.6 | 4107.6 | 4107.6 | 4107.6 | 4107.6 | 4107.6 |
| 2.5° | 4563.2 | 4557.4 | 4530.5 | 4519.0 | 4453.6 | 4415.2 | 4399.8 | 4351.8 | 4282.6 | 4213.4 | 4136.5 |
| 5° | 5082.2 | 5080.3 | 5030.3 | 4982.2 | 4859.2 | 4743.9 | 4722.7 | 4611.3 | 4455.6 | 4309.5 | 4163.4 |
| 7.5° | 5612.7 | 5587.7 | 5537.7 | 5445.5 | 5266.7 | 5082.2 | 5064.9 | 4907.3 | 4686.2 | 4474.8 | 4265.3 |
| 10° | 6062.5 | 6047.1 | 5981.7 | 5841.4 | 5631.9 | 5422.4 | 5401.3 | 5207.1 | 4957.2 | 4697.7 | 4430.6 |
| 12.5° | 6412.3 | 6400.8 | 6314.3 | 6139.4 | 5916.4 | 5699.2 | 5670.4 | 5497.4 | 5230.2 | 4939.9 | 4624.7 |
| 15° | 6625.7 | 6619.9 | 6514.2 | 6327.7 | 6108.6 | 5920.2 | 5895.3 | 5743.4 | 5495.4 | 5191.7 | 4836.1 |
| 17.5° | 6675.6 | 6677.6 | 6568.0 | 6379.6 | 6199.0 | 6064.4 | 6045.2 | 5929.8 | 5722.3 | 5420.5 | 5047.6 |
| 20° | 6564.2 | 6587.2 | 6489.2 | 6325.8 | 6214.3 | 6143.2 | 6127.8 | 6058.6 | 5883.7 | 5599.2 | 5216.7 |
| 22.5° | 6406.5 | 6418.1 | 6350.8 | 6241.2 | 6195.1 | 6208.6 | 6200.9 | 6162.4 | 6014.4 | 5753.0 | 5384.0 |
| 25° | 6310.4 | 6310.4 | 6270.1 | 6177.8 | 6208.6 | 6291.2 | 6293.1 | 6285.4 | 6168.2 | 5941.4 | 5587.7 |
| 27.5° | 6306.6 | 6295.1 | 6248.9 | 6179.7 | 6264.3 | 6391.2 | 6398.9 | 6450.8 | 6377.7 | 6170.1 | 5841.4 |
| 30° | 6460.4 | 6446.9 | 6348.9 | 6258.5 | 6366.2 | 6502.7 | 6521.9 | 6635.3 | 6598.8 | 6418.1 | 6124.0 |
| 32.5° | 6819.8 | 6771.8 | 6554.5 | 6406.5 | 6487.3 | 6650.7 | 6675.6 | 6856.3 | 6914.0 | 6723.7 | 6396.9 |
| 35° | 7311.9 | 7160.0 | 6846.7 | 6687.2 | 6694.9 | 6865.9 | 6889.0 | 7154.3 | 7325.3 | 7004.3 | 6608.4 |
| 37.5° | 7990.4 | 7915.4 | 7406.1 | 6979.3 | 7013.9 | 7273.4 | 7340.7 | 7629.0 | 7581.0 | 7158.1 | 6848.6 |
| 40° | 9478.1 | 9360.9 | 8818.8 | 7798.2 | 7319.6 | 7604.0 | 7625.2 | 7779.0 | 7782.8 | 7506.0 | 7348.4 |
| 42.5° | 11504.1 | 11456.0 | 10885.2 | 9284.0 | 7921.2 | 7825.1 | 7863.5 | 8123.0 | 8413.3 | 8240.3 | 8232.6 |
| 45° | 13747.3 | 13722.3 | 13116.8 | 11256.1 | 9137.9 | 8549.7 | 8597.8 | 8945.7 | 9501.2 | 9539.7 | 9783.8 |
| 47.5° | 15552.2 | 15540.6 | 15192.7 | 13457.0 | 11000.5 | 9778.0 | 9793.4 | 10162.4 | 11138.9 | 11621.4 | 12011.5 |
| 50° | 17197.5 | 17253.3 | 16978.4 | 15838.6 | 13537.7 | 11702.1 | 11665.6 | 11911.6 | 13480.1 | 14270.1 | 14754.5 |
| 52.5° | 19484.9 | 19563.7 | 18792.9 | 18060.6 | 16199.9 | 14089.4 | 14060.6 | 14318.1 | 16294.1 | 16886.1 | 16972.6 |
| 55° | 21505.1 | 21370.5 | 20761.2 | 20549.8 | 19446.4 | 17038.0 | 17030.3 | 17257.1 | 19015.9 | 19267.7 | 19427.2 |
| 57.5° | 22397.0 | 22345.1 | 22639.1 | 23123.5 | 22846.7 | 20522.9 | 20505.6 | 20332.6 | 21451.3 | 21478.2 | 21968.3 |
| 60° | 22960.1 | 23023.6 | 23925.1 | 25418.6 | 26108.6 | 24273.0 | 24161.5 | 23106.2 | 23777.1 | 23717.5 | 24242.2 |
| 62.5° | 22537.3 | 22662.2 | 24284.5 | 26773.7 | 28549.8 | 27546.4 | 27388.8 | 25647.3 | 25764.6 | 25558.9 | 26047.1 |
| 65° | 20292.2 | 20486.3 | 23144.7 | 26518.1 | 29760.7 | 30104.8 | 29945.3 | 27890.5 | 27342.7 | 27004.4 | 26733.3 |
| 67.5° | 16476.7 | 16592.0 | 19367.6 | 24294.1 | 29214.8 | 31631.0 | 31598.3 | 29856.8 | 28534.4 | 26760.2 | 24657.4 |
| 69° | 13616.5 | 13730.0 | 16401.8 | 21952.9 | 28013.5 | 31957.8 | 32021.2 | 30487.3 | 28307.6 | 25276.3 | 21847.2 |
| 70° | 11532.9 | 11654.0 | 14143.2 | 19946.2 | 26619.9 | 31805.9 | 31919.3 | 30427.7 | 27657.9 | 23557.9 | 19381.1 |
| 72.5° | 6049.0 | 6152.8 | 8707.4 | 13741.5 | 21701.1 | 29205.2 | 29549.3 | 27855.9 | 23444.5 | 17109.1 | 11459.9 |
| 75° | 1901.0 | 1960.6 | 3400.3 | 7183.1 | 14858.3 | 22708.3 | 22787.2 | 21851.1 | 16647.8 | 9410.9 | 4772.7 |
| 77.5° | 724.7 | 707.4 | 1132.1 | 2646.8 | 7511.8 | 14298.9 | 14781.4 | 13655.0 | 8736.2 | 3327.3 | 1101.4 |
| 80° | 390.2 | 392.1 | 588.2 | 1095.6 | 3213.8 | 7348.4 | 7755.9 | 6618.0 | 3104.3 | 1038.0 | 253.7 |
| 82.5° | 169.1 | 176.8 | 330.6 | 580.5 | 1476.2 | 2710.2 | 2914.0 | 2425.8 | 1186.0 | 697.7 | 94.2 |
| 85° | 36.5 | 40.4 | 159.5 | 315.2 | 601.6 | 761.2 | 797.7 | 786.2 | 755.4 | 542.0 | 36.5 |
| 87.5° | 0.0 | 0.0 | 71.1 | 113.4 | 151.9 | 173.0 | 151.9 | 198.0 | 417.1 | 365.2 | 19.2 |
| 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-SA0B-750-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4107.6 | 4107.6 | 4107.6 | 4107.6 | 4107.6 | 4107.6 | 4107.6 | 4107.6 | 4107.6 | 4107.6 | 4107.6 |
| 2.5° | 4111.5 | 4076.9 | 4017.3 | 3952.0 | 3905.8 | 3857.8 | 3819.3 | 3802.0 | 3782.8 | 3769.3 | 3786.6 |
| 5° | 4103.8 | 4036.5 | 3921.2 | 3809.7 | 3729.0 | 3663.6 | 3609.8 | 3588.7 | 3567.5 | 3552.1 | 3550.2 |
| 7.5° | 4171.1 | 4076.9 | 3900.1 | 3736.7 | 3611.7 | 3523.3 | 3450.3 | 3419.5 | 3394.5 | 3383.0 | 3373.4 |
| 10° | 4299.9 | 4178.8 | 3942.3 | 3729.0 | 3567.5 | 3417.6 | 3260.0 | 3138.9 | 3060.1 | 3023.6 | 3010.1 |
| 12.5° | 4467.1 | 4315.2 | 4023.1 | 3769.3 | 3534.8 | 3246.5 | 2912.1 | 2623.7 | 2437.3 | 2375.8 | 2339.3 |
| 15° | 4663.1 | 4474.8 | 4128.8 | 3821.2 | 3415.7 | 2889.0 | 2322.0 | 1945.2 | 1772.2 | 1737.6 | 1699.2 |
| 17.5° | 4851.5 | 4643.9 | 4255.7 | 3830.9 | 3154.3 | 2308.5 | 1701.1 | 1445.5 | 1378.2 | 1401.3 | 1407.0 |
| 20° | 5016.8 | 4811.2 | 4380.6 | 3746.3 | 2679.5 | 1731.9 | 1316.7 | 1253.2 | 1278.2 | 1322.4 | 1330.1 |
| 22.5° | 5184.1 | 4972.6 | 4495.9 | 3523.3 | 2072.1 | 1314.8 | 1186.0 | 1201.3 | 1226.3 | 1270.5 | 1278.2 |
| 25° | 5387.8 | 5168.7 | 4603.6 | 3113.9 | 1555.0 | 1118.7 | 1126.4 | 1149.4 | 1174.4 | 1214.8 | 1218.6 |
| 27.5° | 5622.3 | 5416.6 | 4674.7 | 2581.5 | 1153.3 | 1028.4 | 1053.3 | 1087.9 | 1112.9 | 1151.4 | 1159.1 |
| 30° | 5933.7 | 5743.4 | 4697.7 | 2029.8 | 966.8 | 947.6 | 959.2 | 1001.4 | 1038.0 | 1072.6 | 1078.3 |
| 32.5° | 6225.9 | 6066.3 | 4620.9 | 1532.0 | 895.7 | 872.7 | 872.7 | 897.6 | 939.9 | 972.6 | 980.3 |
| 35° | 6495.0 | 6391.2 | 4374.8 | 1120.6 | 841.9 | 803.5 | 784.2 | 784.2 | 811.1 | 838.1 | 845.7 |
| 37.5° | 6850.6 | 6846.7 | 3976.9 | 893.8 | 790.0 | 745.8 | 705.4 | 674.7 | 665.1 | 670.8 | 674.7 |
| 40° | 7459.9 | 7465.7 | 3458.0 | 801.5 | 745.8 | 686.2 | 624.7 | 569.0 | 517.1 | 499.8 | 497.8 |
| 42.5° | 8411.4 | 8324.9 | 2914.0 | 757.3 | 707.4 | 624.7 | 532.4 | 457.5 | 376.7 | 351.8 | 349.8 |
| 45° | 9922.2 | 9409.0 | 2337.3 | 717.0 | 667.0 | 555.5 | 440.2 | 338.3 | 272.9 | 253.7 | 253.7 |
| 47.5° | 12123.0 | 10833.3 | 1810.7 | 672.8 | 613.2 | 476.7 | 332.5 | 244.1 | 199.9 | 190.3 | 192.2 |
| 50° | 14398.9 | 12228.8 | 1387.8 | 617.0 | 547.8 | 394.0 | 246.0 | 176.8 | 151.9 | 151.9 | 153.8 |
| 52.5° | 16417.1 | 13251.3 | 1082.2 | 557.4 | 467.1 | 309.5 | 186.4 | 138.4 | 126.9 | 124.9 | 126.9 |
| 55° | 18306.6 | 13910.6 | 828.4 | 488.2 | 371.0 | 230.7 | 142.2 | 113.4 | 105.7 | 101.9 | 100.0 |
| 57.5° | 20128.8 | 14237.4 | 620.9 | 394.0 | 269.1 | 167.2 | 113.4 | 96.1 | 88.4 | 82.7 | 80.7 |
| 60° | 21341.7 | 13972.1 | 426.7 | 290.2 | 186.4 | 121.1 | 94.2 | 82.7 | 73.0 | 67.3 | 65.4 |
| 62.5° | 22026.0 | 13247.5 | 274.9 | 209.5 | 132.6 | 90.3 | 75.0 | 69.2 | 55.7 | 50.0 | 50.0 |
| 65° | 21749.2 | 12051.9 | 192.2 | 149.9 | 96.1 | 67.3 | 55.7 | 55.7 | 40.4 | 32.7 | 30.8 |
| 67.5° | 19273.5 | 10181.7 | 146.1 | 111.5 | 69.2 | 50.0 | 42.3 | 48.1 | 25.0 | 15.4 | 15.4 |
| 69° | 16582.4 | 8438.3 | 124.9 | 92.3 | 57.7 | 40.4 | 36.5 | 44.2 | 17.3 | 11.5 | 9.6 |
| 70° | 14412.3 | 7279.2 | 113.4 | 80.7 | 48.1 | 34.6 | 32.7 | 42.3 | 17.3 | 9.6 | 7.7 |
| 72.5° | 8622.8 | 4059.6 | 86.5 | 57.7 | 30.8 | 26.9 | 26.9 | 48.1 | 17.3 | 9.6 | 7.7 |
| 75° | 3484.9 | 1430.1 | 63.4 | 40.4 | 23.1 | 23.1 | 32.7 | 61.5 | 15.4 | 7.7 | 5.8 |
| 77.5° | 790.0 | 313.3 | 36.5 | 25.0 | 15.4 | 23.1 | 38.4 | 48.1 | 9.6 | 3.8 | 0.0 |
| 80° | 192.2 | 76.9 | 23.1 | 15.4 | 9.6 | 17.3 | 28.8 | 26.9 | 1.9 | 0.0 | 0.0 |
| 82.5° | 63.4 | 26.9 | 9.6 | 7.7 | 1.9 | 5.8 | 13.5 | 7.7 | 0.0 | 0.0 | 0.0 |
| 85° | 26.9 | 15.4 | 3.8 | 1.9 | 0.0 | 0.0 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 17.3 | 5.8 | 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 |

(END OF REPORT)