

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: P322304

Luminaire Tested: **GAN-SA0D-750-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322304
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-750-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55966 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

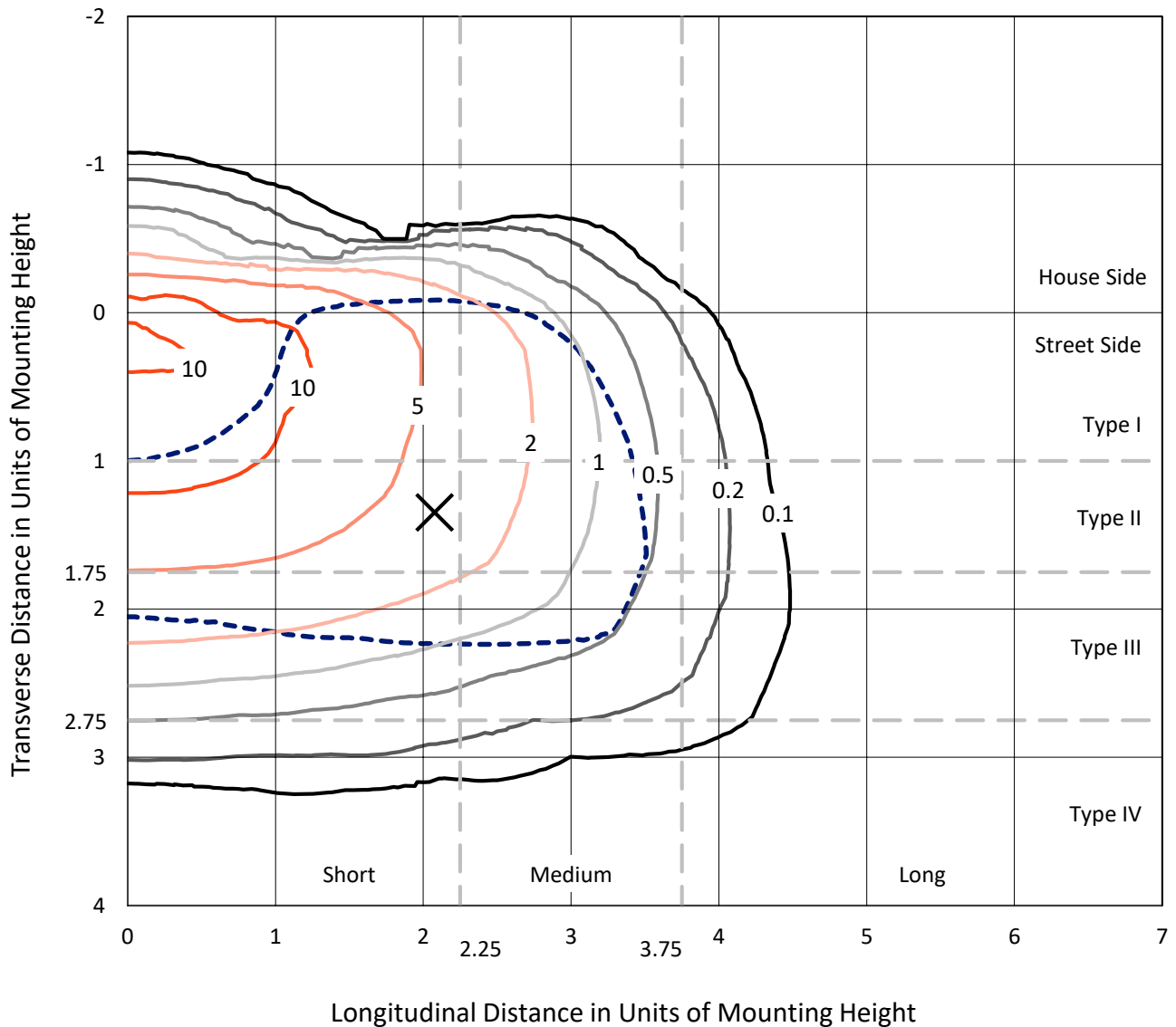
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

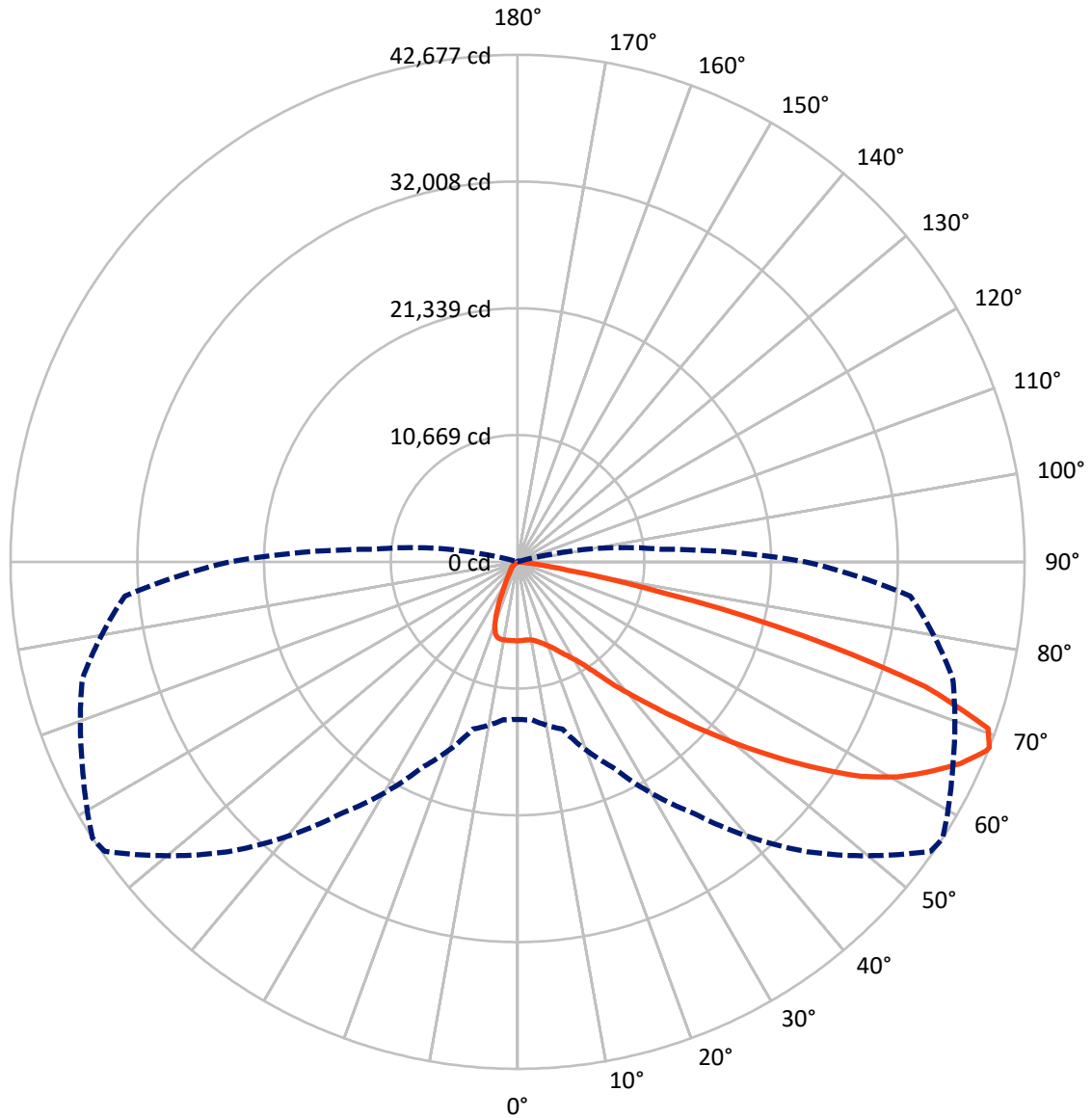
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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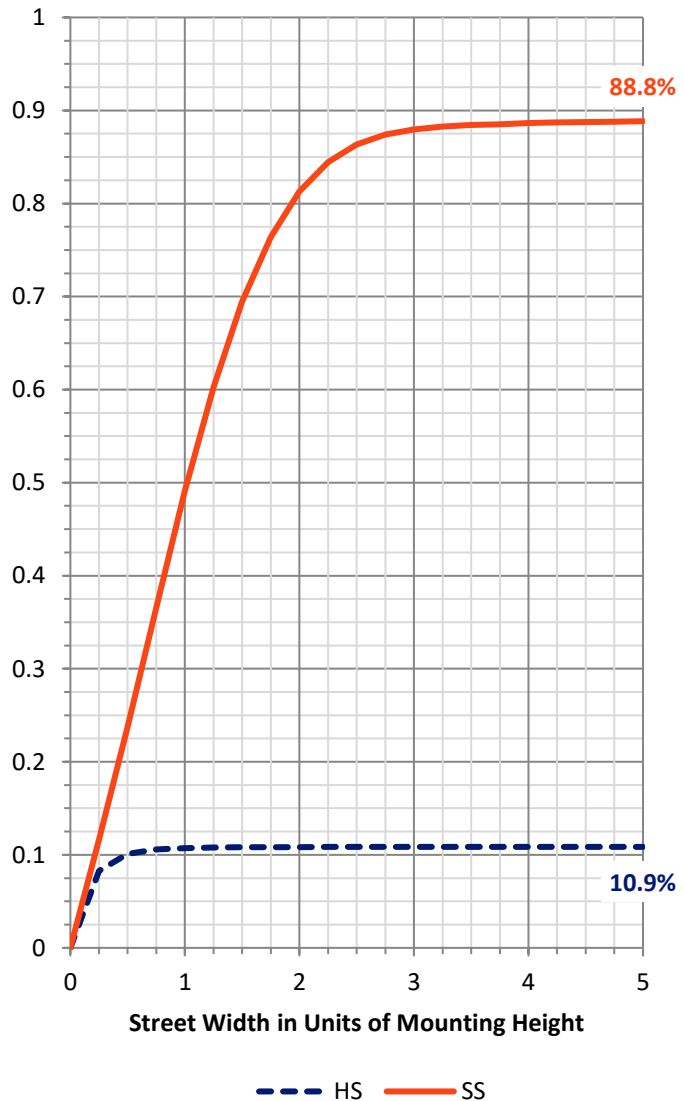
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6137.0 | 0.0 | 6137.0 |
| | % Fixture | 11.0 | 0.0 | 11.0 |
| Street Side | Lumens | 49829.0 | 0.0 | 49829.0 |
| | % Fixture | 89.0 | 0.0 | 89.0 |
| Total | Lumens | 55966.0 | 0.0 | 55966.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 622.4 | 1.1 |
| 10°-20° | 1724.6 | 3.1 |
| 20°-30° | 2975.1 | 5.3 |
| 30°-40° | 5134.9 | 9.2 |
| 40°-50° | 8783.4 | 15.7 |
| 50°-60° | 14052.6 | 25.1 |
| 60°-70° | 16236.3 | 29.0 |
| 70°-80° | 6204.1 | 11.1 |
| 80°-90° | 232.6 | 0.4 |
| 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° | 55966.0 | 100.0 |
| 0°-180° | 55966.0 | 100.0 |

Coefficient of Utilization



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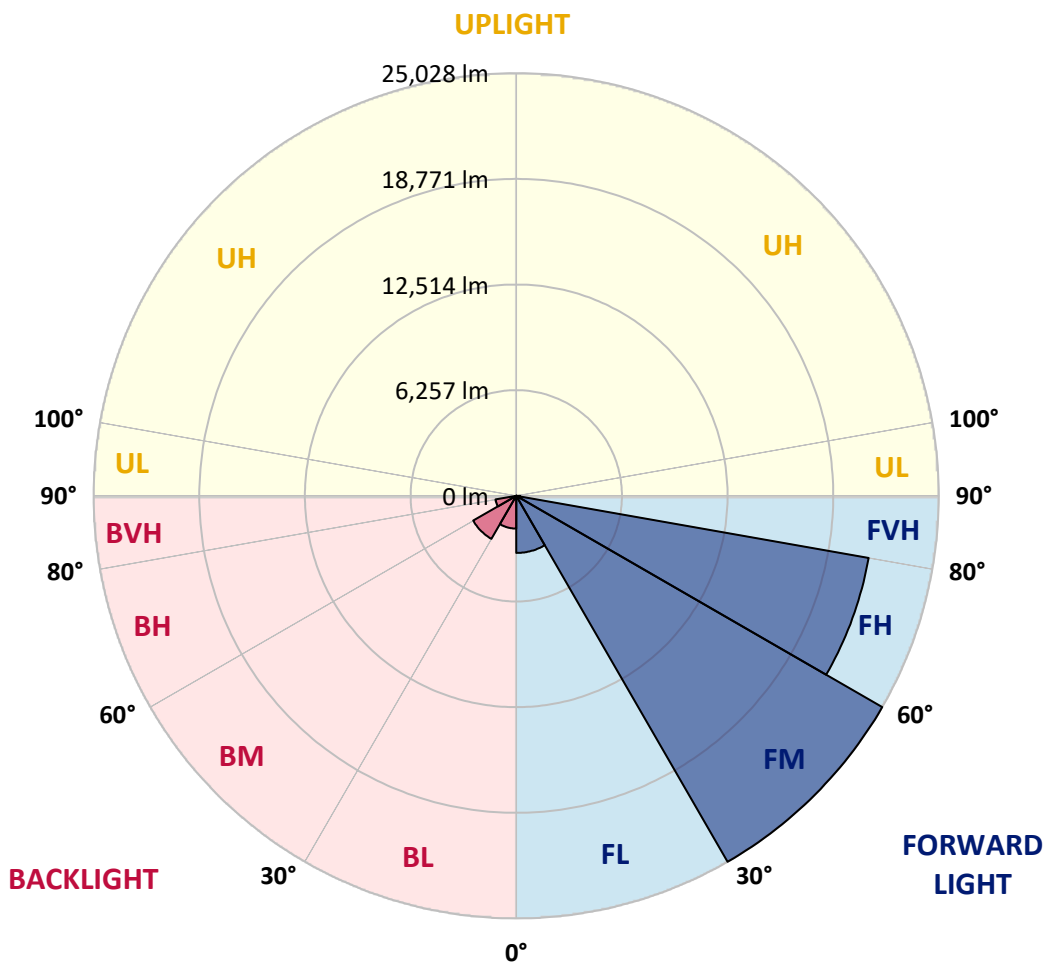
CATALOG NUMBER: GAN-SA0D-750-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3382.6 | 6.0 | | | |
| FM (30°-60°) | 25027.5 | 44.7 | | | |
| FH (60°-80°) | 21190.5 | 37.9 | | | G5 |
| FVH (80°-90°) | 228.3 | 0.4 | | | G3/500 |
| BL (0°-30°) | 1939.5 | 3.5 | B3/2500 | | |
| BM (30°-60°) | 2943.4 | 5.3 | B3/5000 | | |
| BH (60°-80°) | 1249.8 | 2.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 4.2 | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6650.2 | 6650.2 | 6650.2 | 6650.2 | 6650.2 | 6650.2 | 6650.2 | 6650.2 | 6650.2 | 6650.2 | 6650.2 |
| 2.5° | 6494.1 | 6523.2 | 6544.4 | 6557.6 | 6573.5 | 6607.9 | 6618.5 | 6634.4 | 6642.3 | 6642.3 | 6660.8 |
| 5° | 6237.4 | 6269.2 | 6314.2 | 6351.2 | 6425.3 | 6520.6 | 6589.4 | 6615.8 | 6663.5 | 6705.8 | 6729.6 |
| 7.5° | 5999.2 | 6036.3 | 6089.2 | 6176.5 | 6303.6 | 6457.1 | 6600.0 | 6637.0 | 6729.6 | 6819.6 | 6864.6 |
| 10° | 5845.8 | 5874.9 | 5943.7 | 6068.0 | 6234.8 | 6449.1 | 6650.2 | 6695.2 | 6854.0 | 7004.8 | 7089.5 |
| 12.5° | 5792.8 | 5819.3 | 5890.7 | 6031.0 | 6237.4 | 6488.8 | 6766.7 | 6832.8 | 7065.7 | 7285.4 | 7404.4 |
| 15° | 5869.6 | 5874.9 | 5951.6 | 6083.9 | 6287.7 | 6586.7 | 6959.9 | 7039.2 | 7333.0 | 7618.8 | 7767.0 |
| 17.5° | 6166.0 | 6142.1 | 6181.8 | 6240.1 | 6401.5 | 6716.4 | 7163.6 | 7282.7 | 7674.4 | 8010.5 | 8150.7 |
| 20° | 6906.9 | 6906.9 | 6817.0 | 6658.2 | 6660.8 | 6917.5 | 7438.8 | 7573.8 | 8052.8 | 8441.8 | 8568.8 |
| 22.5° | 8174.5 | 8150.7 | 7970.8 | 7581.7 | 7224.5 | 7264.2 | 7774.9 | 7949.6 | 8508.0 | 8923.4 | 8965.8 |
| 25° | 9698.8 | 9669.7 | 9391.8 | 8844.0 | 8224.8 | 7825.2 | 8230.1 | 8431.2 | 9050.5 | 9418.3 | 9331.0 |
| 27.5° | 11313.1 | 11289.3 | 11014.0 | 10333.9 | 9452.7 | 8719.7 | 8772.6 | 8963.1 | 9603.5 | 9966.1 | 9688.2 |
| 30° | 12877.1 | 12885.0 | 12612.4 | 11913.8 | 10916.1 | 9860.2 | 9460.6 | 9571.8 | 10140.8 | 10508.6 | 10111.6 |
| 32.5° | 14364.3 | 14374.9 | 14139.4 | 13358.7 | 12427.2 | 11186.1 | 10413.3 | 10384.2 | 10765.3 | 11127.8 | 10672.7 |
| 35° | 15690.1 | 15716.6 | 15555.1 | 14949.1 | 13962.1 | 12662.7 | 11649.2 | 11580.4 | 11651.8 | 12062.0 | 11532.7 |
| 37.5° | 16968.3 | 16984.2 | 16862.4 | 16351.7 | 15526.0 | 14284.9 | 13210.5 | 13112.6 | 12959.1 | 13274.0 | 12668.0 |
| 40° | 18368.2 | 18328.5 | 18188.3 | 17725.1 | 17015.9 | 16076.5 | 14888.3 | 14718.9 | 14451.6 | 14732.1 | 14160.5 |
| 42.5° | 19670.2 | 19625.2 | 19649.0 | 19125.1 | 18527.0 | 17918.3 | 16843.9 | 16552.8 | 16396.7 | 16719.5 | 15991.8 |
| 45° | 21297.7 | 21273.9 | 21353.3 | 20898.1 | 20413.8 | 19971.9 | 19085.4 | 18767.8 | 18699.0 | 19077.4 | 18206.8 |
| 47.5° | 22904.0 | 22962.2 | 23208.3 | 23015.2 | 22819.3 | 22430.3 | 21459.1 | 21316.2 | 21358.6 | 21816.4 | 20543.5 |
| 50° | 24243.1 | 24311.9 | 24986.7 | 25209.0 | 25492.1 | 25264.5 | 24290.7 | 24203.4 | 24370.1 | 24782.9 | 23057.5 |
| 52.5° | 25211.6 | 25351.9 | 26190.8 | 27214.9 | 28247.0 | 28400.5 | 27429.2 | 27349.9 | 27574.8 | 27638.3 | 24999.9 |
| 55° | 25883.8 | 26008.2 | 26958.2 | 28831.8 | 30933.0 | 31594.6 | 30991.2 | 30684.2 | 30641.9 | 30014.7 | 27042.9 |
| 57.5° | 26002.9 | 25989.6 | 27355.2 | 29877.1 | 33039.5 | 34746.4 | 34365.3 | 34063.6 | 33195.6 | 32211.2 | 29384.9 |
| 60° | 25330.7 | 25407.4 | 26992.6 | 30239.7 | 34362.6 | 37130.7 | 37159.8 | 36768.2 | 35415.9 | 34346.8 | 31655.4 |
| 62.5° | 23261.3 | 23573.5 | 25174.6 | 29289.6 | 34346.8 | 38091.3 | 39208.1 | 38909.0 | 37292.1 | 36096.0 | 33957.8 |
| 65° | 19905.7 | 20016.9 | 21543.8 | 26034.6 | 32025.9 | 37689.1 | 41052.6 | 40941.4 | 38983.1 | 37794.9 | 35140.7 |
| 67.5° | 14536.3 | 14295.5 | 15899.2 | 20501.1 | 27114.3 | 35344.4 | 42375.7 | 42516.0 | 40287.8 | 38144.3 | 33881.0 |
| 68° | 13266.1 | 13337.5 | 14586.6 | 19133.0 | 25828.2 | 34516.1 | 42463.1 | 42677.4 | 40417.5 | 37916.7 | 33193.0 |
| 70° | 7907.2 | 8044.9 | 9159.0 | 13173.4 | 19649.0 | 29829.5 | 41521.0 | 42010.5 | 39644.7 | 35569.4 | 28710.1 |
| 72.5° | 2019.2 | 2183.2 | 3236.5 | 5896.0 | 11223.1 | 21017.2 | 35050.7 | 35879.0 | 34420.9 | 28855.6 | 19381.7 |
| 75° | 830.9 | 873.3 | 1156.4 | 1942.4 | 4181.2 | 9468.6 | 23102.5 | 24875.5 | 23862.0 | 17275.3 | 8759.4 |
| 77.5° | 574.3 | 603.4 | 743.6 | 1077.1 | 1810.1 | 3210.0 | 11326.3 | 12607.1 | 11358.1 | 5896.0 | 1910.7 |
| 80° | 412.8 | 436.6 | 531.9 | 717.2 | 1040.0 | 1145.9 | 3691.6 | 4268.5 | 3390.0 | 1294.1 | 473.7 |
| 82.5° | 246.1 | 264.6 | 397.0 | 510.7 | 632.5 | 547.8 | 918.3 | 1042.7 | 981.8 | 643.1 | 211.7 |
| 85° | 121.7 | 142.9 | 267.3 | 365.2 | 341.4 | 230.2 | 280.5 | 312.3 | 386.4 | 391.7 | 113.8 |
| 87.5° | 7.9 | 15.9 | 156.1 | 219.6 | 95.3 | 52.9 | 82.0 | 100.6 | 137.6 | 193.2 | 47.6 |
| 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-SA0D-750-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6650.2 | 6650.2 | 6650.2 | 6650.2 | 6650.2 | 6650.2 | 6650.2 | 6650.2 | 6650.2 | 6650.2 | 6650.2 |
| 2.5° | 6668.8 | 6671.4 | 6652.9 | 6644.9 | 6650.2 | 6618.5 | 6605.2 | 6610.5 | 6610.5 | 6618.5 | 6605.2 |
| 5° | 6734.9 | 6734.9 | 6703.2 | 6660.8 | 6637.0 | 6576.1 | 6536.4 | 6525.9 | 6517.9 | 6512.6 | 6502.0 |
| 7.5° | 6877.8 | 6861.9 | 6806.4 | 6713.7 | 6634.4 | 6502.0 | 6401.5 | 6348.6 | 6322.1 | 6311.5 | 6303.6 |
| 10° | 7108.1 | 7078.9 | 6986.3 | 6814.3 | 6631.7 | 6396.2 | 6176.5 | 6020.4 | 5890.7 | 5837.8 | 5806.1 |
| 12.5° | 7417.7 | 7375.3 | 7219.2 | 6933.4 | 6613.2 | 6179.2 | 5702.8 | 5245.0 | 4819.0 | 4644.3 | 4557.0 |
| 15° | 7774.9 | 7714.1 | 7468.0 | 7034.0 | 6504.7 | 5689.6 | 4654.9 | 3853.1 | 3262.9 | 3040.6 | 2945.4 |
| 17.5° | 8137.5 | 8058.1 | 7685.0 | 7097.5 | 6179.2 | 4676.1 | 3265.6 | 2466.4 | 2072.1 | 1966.2 | 1929.2 |
| 20° | 8502.7 | 8386.2 | 7872.8 | 7049.8 | 5443.5 | 3371.4 | 2154.1 | 1802.2 | 1688.4 | 1656.6 | 1646.0 |
| 22.5° | 8849.3 | 8669.4 | 8042.2 | 6864.6 | 4310.9 | 2262.6 | 1704.2 | 1593.1 | 1556.0 | 1537.5 | 1532.2 |
| 25° | 9151.0 | 8899.6 | 8190.4 | 6293.0 | 3051.2 | 1709.5 | 1534.9 | 1497.8 | 1450.2 | 1415.8 | 1418.4 |
| 27.5° | 9434.2 | 9129.9 | 8280.4 | 5350.9 | 2035.0 | 1460.8 | 1421.1 | 1370.8 | 1283.5 | 1233.2 | 1233.2 |
| 30° | 9775.6 | 9436.8 | 8346.5 | 4117.7 | 1497.8 | 1291.4 | 1259.7 | 1182.9 | 1063.8 | 997.7 | 997.7 |
| 32.5° | 10288.9 | 9902.6 | 8304.2 | 2889.8 | 1241.1 | 1135.3 | 1061.2 | 955.3 | 825.7 | 762.1 | 759.5 |
| 35° | 11074.9 | 10622.4 | 8002.5 | 1894.8 | 1095.6 | 987.1 | 868.0 | 738.3 | 624.5 | 571.6 | 569.0 |
| 37.5° | 12133.4 | 11585.6 | 7325.1 | 1354.9 | 981.8 | 849.5 | 706.6 | 563.7 | 479.0 | 444.6 | 441.9 |
| 40° | 13506.9 | 12705.0 | 6356.5 | 1098.2 | 875.9 | 717.2 | 545.1 | 436.6 | 378.4 | 352.0 | 354.6 |
| 42.5° | 15155.6 | 13903.8 | 5194.8 | 947.4 | 772.7 | 590.1 | 426.1 | 344.0 | 307.0 | 288.5 | 283.2 |
| 45° | 16986.8 | 15086.7 | 3977.4 | 844.2 | 669.5 | 476.3 | 333.4 | 272.6 | 243.5 | 232.9 | 232.9 |
| 47.5° | 19000.7 | 16237.9 | 2911.0 | 754.2 | 558.4 | 367.8 | 267.3 | 222.3 | 198.5 | 190.5 | 187.9 |
| 50° | 20829.3 | 17037.1 | 2098.5 | 658.9 | 457.8 | 291.1 | 217.0 | 185.2 | 169.4 | 158.8 | 158.8 |
| 52.5° | 22353.6 | 17288.5 | 1545.5 | 555.7 | 370.5 | 232.9 | 180.0 | 158.8 | 142.9 | 135.0 | 135.0 |
| 55° | 23695.3 | 17185.3 | 1148.5 | 457.8 | 299.0 | 190.5 | 153.5 | 135.0 | 121.7 | 113.8 | 113.8 |
| 57.5° | 24981.4 | 16851.9 | 857.4 | 373.1 | 240.8 | 153.5 | 129.7 | 113.8 | 100.6 | 95.3 | 95.3 |
| 60° | 26032.0 | 16296.1 | 637.8 | 301.7 | 193.2 | 124.4 | 108.5 | 92.6 | 82.0 | 74.1 | 74.1 |
| 62.5° | 26884.1 | 15682.2 | 468.4 | 248.8 | 153.5 | 97.9 | 84.7 | 76.7 | 60.9 | 52.9 | 52.9 |
| 65° | 26889.4 | 14663.3 | 352.0 | 206.4 | 119.1 | 76.7 | 63.5 | 60.9 | 39.7 | 31.8 | 29.1 |
| 67.5° | 24944.3 | 12641.5 | 269.9 | 177.3 | 92.6 | 58.2 | 47.6 | 50.3 | 21.2 | 13.2 | 10.6 |
| 68° | 24237.8 | 12128.1 | 254.0 | 174.7 | 87.3 | 55.6 | 45.0 | 50.3 | 18.5 | 10.6 | 7.9 |
| 70° | 20435.0 | 9648.5 | 203.8 | 169.4 | 76.7 | 42.3 | 37.0 | 50.3 | 15.9 | 7.9 | 5.3 |
| 72.5° | 13070.2 | 5599.6 | 150.8 | 135.0 | 58.2 | 31.8 | 23.8 | 45.0 | 15.9 | 5.3 | 2.6 |
| 75° | 5562.6 | 1736.0 | 103.2 | 95.3 | 34.4 | 23.8 | 15.9 | 29.1 | 10.6 | 2.6 | 0.0 |
| 77.5° | 1172.3 | 391.7 | 60.9 | 58.2 | 23.8 | 15.9 | 10.6 | 7.9 | 2.6 | 0.0 | 0.0 |
| 80° | 301.7 | 113.8 | 31.8 | 29.1 | 13.2 | 7.9 | 5.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 95.3 | 45.0 | 18.5 | 13.2 | 5.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 47.6 | 26.5 | 10.6 | 5.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 26.5 | 7.9 | 2.6 | 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)