

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: P323554

Luminaire Tested: **GAN-SA0A-750-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-750-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39406 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

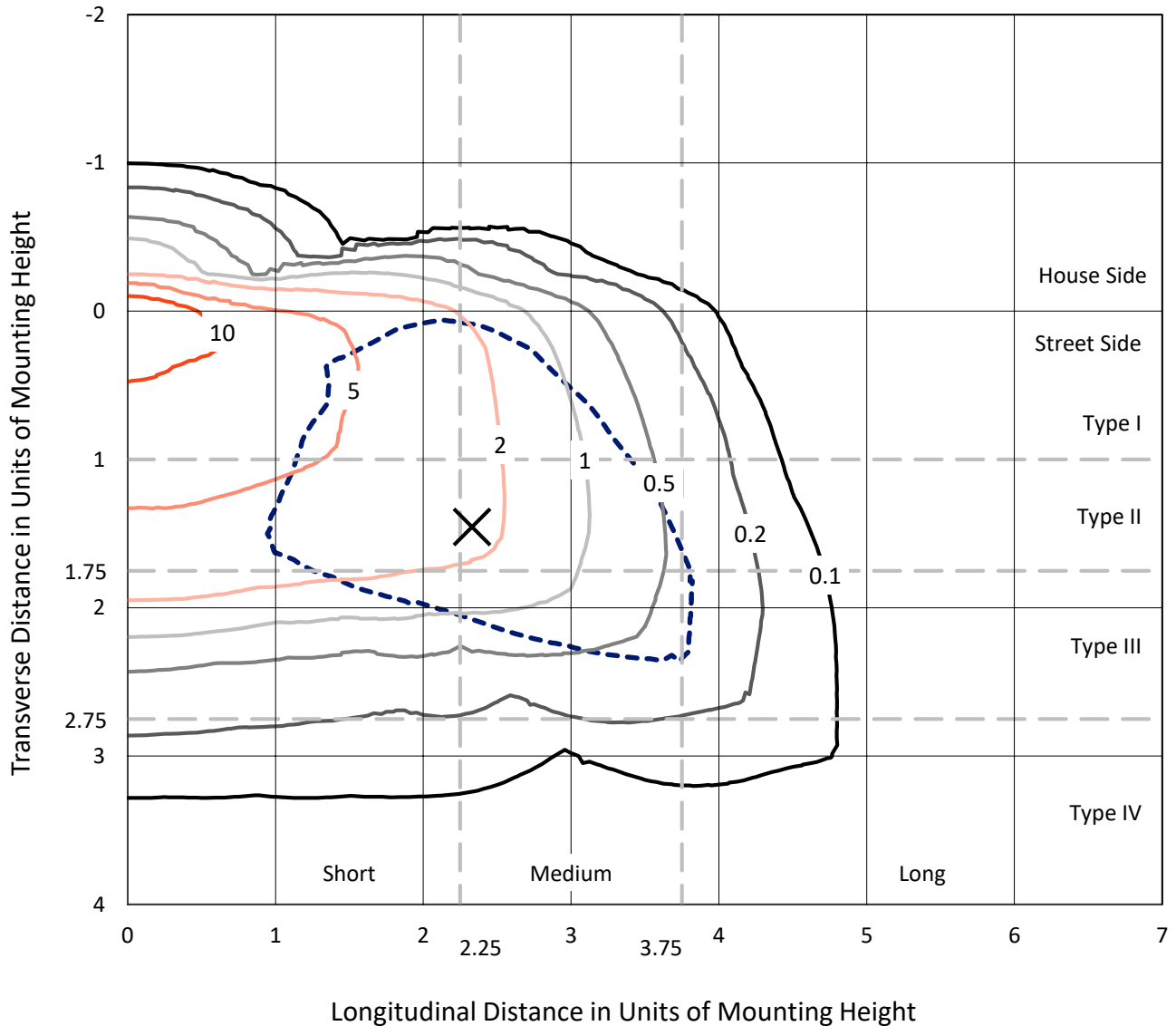
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

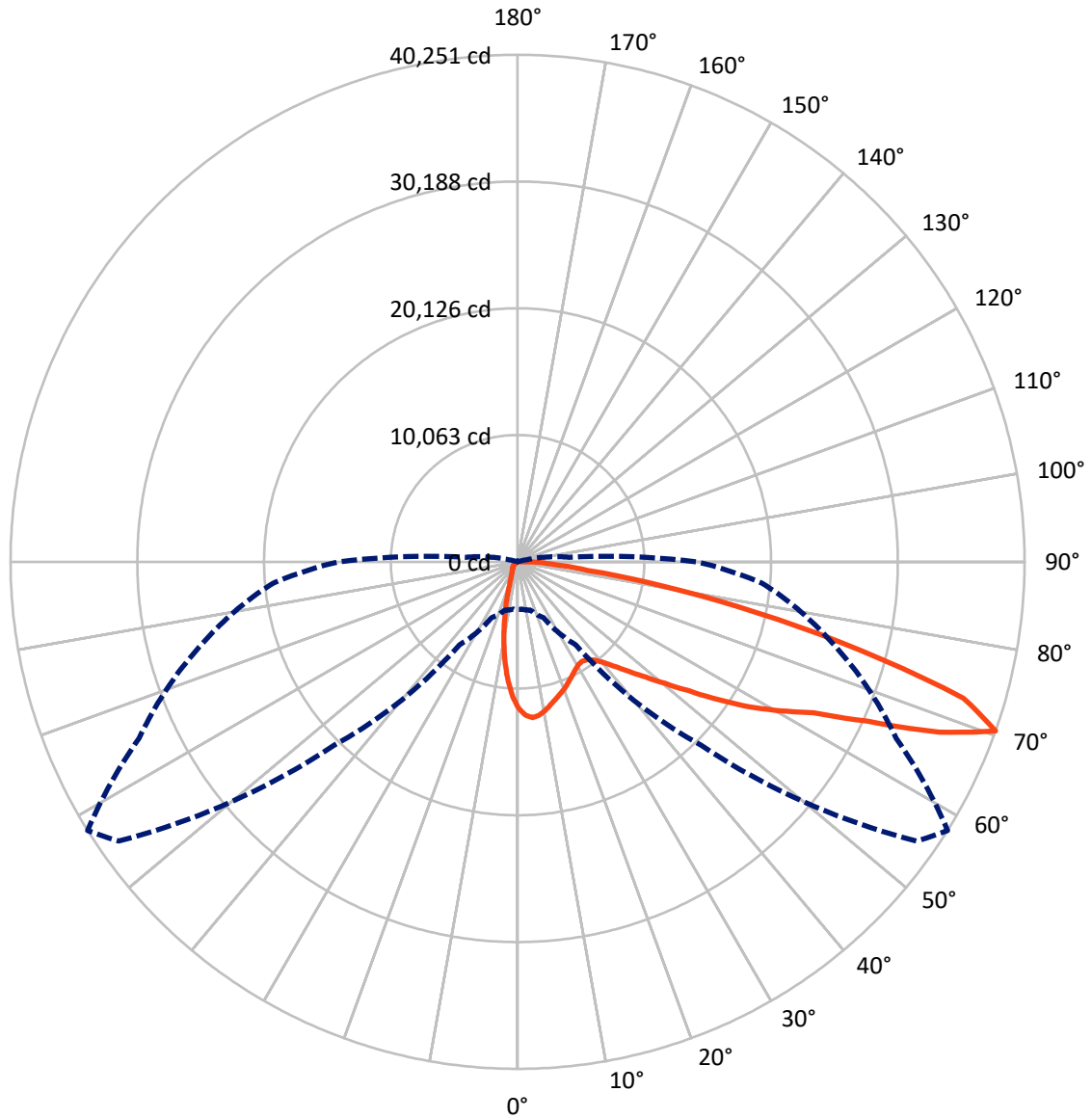
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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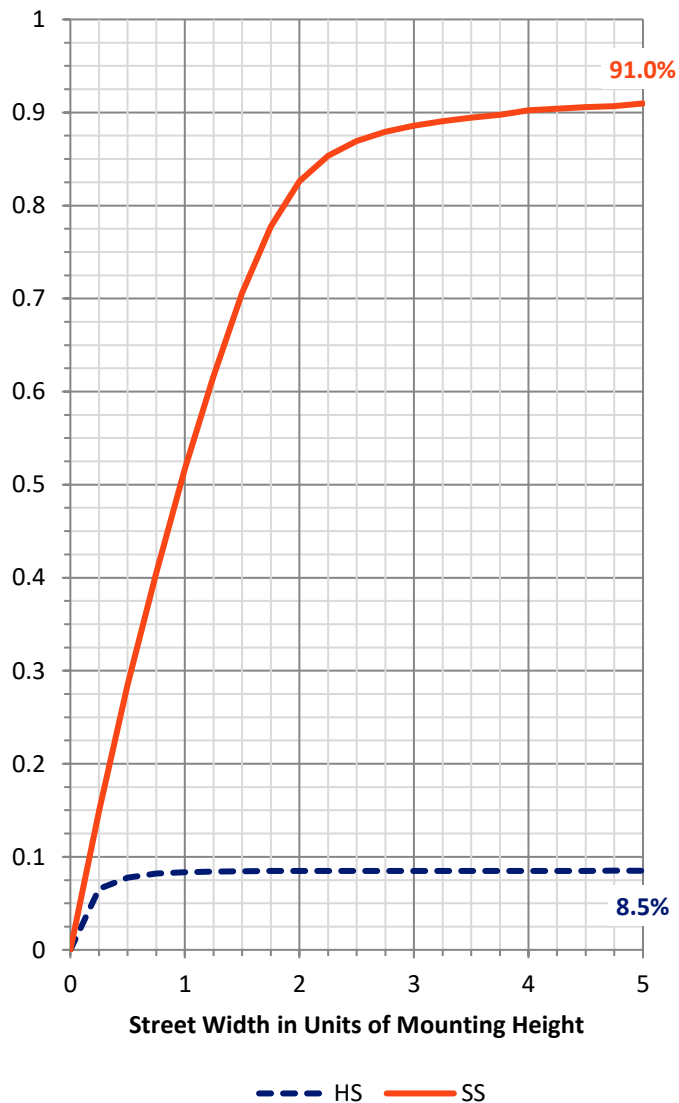
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3372.3 | 0.0 | 3372.3 |
| | % Fixture | 8.6 | 0.0 | 8.6 |
| Street Side | Lumens | 36033.7 | 0.0 | 36033.7 |
| | % Fixture | 91.4 | 0.0 | 91.4 |
| Total | Lumens | 39406.0 | 0.0 | 39406.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 951.9 | 2.4 |
| 10°-20° | 1997.8 | 5.1 |
| 20°-30° | 2626.4 | 6.7 |
| 30°-40° | 3478.4 | 8.8 |
| 40°-50° | 5199.1 | 13.2 |
| 50°-60° | 8328.7 | 21.1 |
| 60°-70° | 10498.3 | 26.6 |
| 70°-80° | 5662.7 | 14.4 |
| 80°-90° | 662.8 | 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° | 39406.0 | 100.0 |
| 0°-180° | 39406.0 | 100.0 |

Coefficient of Utilization

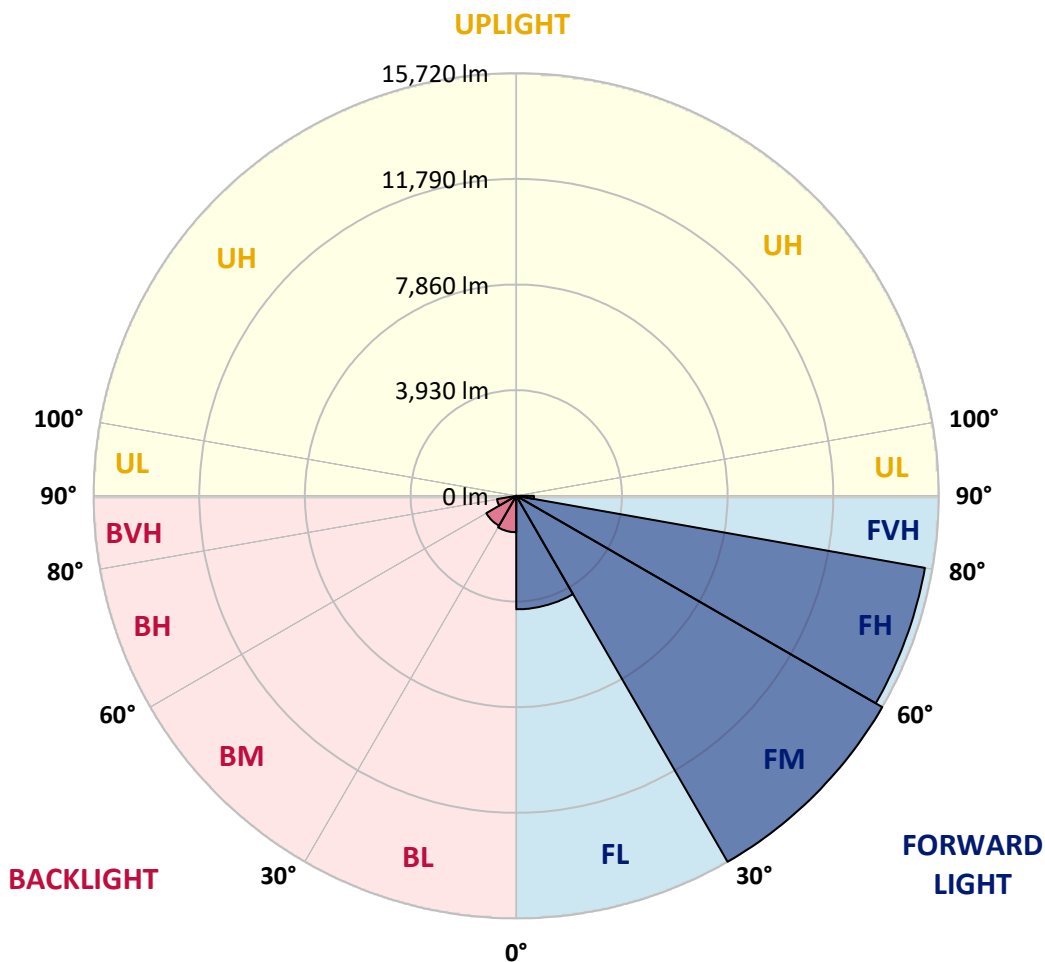


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4221.2 | 10.7 | | | |
| FM (30°-60°) | 15719.7 | 39.9 | | | |
| FH (60°-80°) | 15435.7 | 39.2 | | | G5 |
| FVH (80°-90°) | 657.1 | 1.7 | | | G4/750 |
| BL (0°-30°) | 1354.9 | 3.4 | B3/2500 | | |
| BM (30°-60°) | 1286.5 | 3.3 | B2/2500 | | |
| BH (60°-80°) | 725.2 | 1.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 5.7 | 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 Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11640.3 | 11640.3 | 11640.3 | 11640.3 | 11640.3 | 11640.3 | 11640.3 | 11640.3 | 11640.3 | 11640.3 | 11640.3 |
| 2.5° | 12605.5 | 12574.3 | 12562.9 | 12543.2 | 12467.8 | 12394.1 | 12248.3 | 12207.3 | 12115.5 | 11897.6 | 11666.6 |
| 5° | 12615.3 | 12613.7 | 12648.1 | 12639.9 | 12613.7 | 12579.2 | 12474.4 | 12420.3 | 12264.6 | 11953.3 | 11530.6 |
| 7.5° | 12007.4 | 12038.5 | 12115.5 | 12177.8 | 12249.9 | 12343.3 | 12356.4 | 12304.0 | 12176.2 | 11840.3 | 11279.9 |
| 10° | 11191.4 | 11240.5 | 11348.7 | 11471.6 | 11660.0 | 11846.8 | 12013.9 | 12007.4 | 11963.1 | 11632.2 | 10978.4 |
| 12.5° | 10373.7 | 10431.1 | 10555.6 | 10737.5 | 11004.6 | 11309.4 | 11607.6 | 11648.5 | 11722.3 | 11445.4 | 10699.8 |
| 15° | 9657.7 | 9706.8 | 9829.7 | 10052.6 | 10383.6 | 10793.2 | 11230.7 | 11306.1 | 11496.2 | 11299.5 | 10467.1 |
| 17.5° | 9049.8 | 9080.9 | 9171.0 | 9418.5 | 9801.9 | 10298.4 | 10866.9 | 11014.4 | 11297.9 | 11184.8 | 10265.6 |
| 20° | 8625.4 | 8630.3 | 8689.3 | 8863.0 | 9246.4 | 9801.9 | 10490.1 | 10701.4 | 11088.2 | 11086.5 | 10057.5 |
| 22.5° | 8415.7 | 8399.3 | 8410.7 | 8510.7 | 8792.5 | 9328.3 | 10113.2 | 10363.9 | 10899.7 | 11002.9 | 9846.1 |
| 25° | 8376.3 | 8363.2 | 8330.5 | 8343.6 | 8514.0 | 8913.8 | 9733.1 | 10023.1 | 10734.2 | 10952.1 | 9662.6 |
| 27.5° | 8499.2 | 8512.3 | 8456.6 | 8397.6 | 8410.7 | 8645.1 | 9395.5 | 9731.4 | 10599.9 | 10952.1 | 9533.2 |
| 30° | 8746.6 | 8753.2 | 8712.2 | 8635.2 | 8532.0 | 8569.7 | 9161.2 | 9497.1 | 10532.7 | 11027.5 | 9451.2 |
| 32.5° | 9020.3 | 9056.3 | 9051.4 | 8989.2 | 8841.7 | 8689.3 | 9105.5 | 9411.9 | 10527.8 | 11194.7 | 9443.0 |
| 35° | 9359.5 | 9400.4 | 9469.3 | 9456.1 | 9302.1 | 9051.4 | 9295.6 | 9536.4 | 10624.4 | 11469.9 | 9531.5 |
| 37.5° | 9720.0 | 9782.2 | 9929.7 | 10000.1 | 9900.2 | 9616.7 | 9721.6 | 9893.6 | 10883.3 | 11915.6 | 9756.0 |
| 40° | 10069.0 | 10139.4 | 10408.1 | 10685.1 | 10609.7 | 10318.0 | 10367.2 | 10504.8 | 11343.8 | 12556.3 | 10182.0 |
| 42.5° | 10411.4 | 10516.3 | 10911.2 | 11366.7 | 11456.8 | 11224.2 | 11250.4 | 11360.2 | 12027.0 | 13437.8 | 10878.4 |
| 45° | 10821.1 | 10939.0 | 11524.0 | 12086.0 | 12326.9 | 12225.3 | 12336.7 | 12408.8 | 12920.1 | 14602.9 | 11817.3 |
| 47.5° | 11422.4 | 11558.4 | 12276.1 | 12916.8 | 13339.5 | 13405.1 | 13629.6 | 13677.1 | 14049.0 | 15959.6 | 13041.3 |
| 50° | 12595.6 | 12633.3 | 13282.2 | 13863.9 | 14473.4 | 14866.7 | 15122.3 | 15158.3 | 15415.6 | 17442.5 | 14570.1 |
| 52.5° | 14072.0 | 14096.6 | 14463.6 | 14853.6 | 15546.7 | 16349.6 | 16947.6 | 16998.4 | 17052.5 | 18887.7 | 16079.2 |
| 55° | 15538.5 | 15535.2 | 15777.7 | 16007.1 | 16800.2 | 17966.8 | 19264.6 | 19295.7 | 18907.4 | 20259.2 | 17232.8 |
| 57.5° | 16454.4 | 16542.9 | 16911.6 | 17206.5 | 18314.2 | 19810.2 | 21611.0 | 21725.7 | 20855.6 | 21275.1 | 18373.2 |
| 60° | 16162.8 | 16205.4 | 17023.0 | 18114.3 | 20200.2 | 22430.3 | 23985.3 | 24014.8 | 22320.5 | 22289.4 | 19815.1 |
| 62.5° | 13770.5 | 13793.4 | 15078.0 | 17327.8 | 21155.5 | 25828.7 | 26849.5 | 26369.4 | 24004.9 | 23696.9 | 21540.5 |
| 65° | 9438.1 | 9587.2 | 10660.5 | 13441.1 | 19400.6 | 27960.4 | 31283.4 | 30488.7 | 26572.6 | 25725.4 | 23100.4 |
| 67.5° | 5558.0 | 5526.9 | 6057.8 | 8106.0 | 14248.9 | 26544.7 | 36892.2 | 36102.4 | 30074.2 | 27083.8 | 22643.3 |
| 70° | 3796.5 | 3775.2 | 3978.4 | 4907.5 | 8043.7 | 20591.8 | 38657.0 | 40251.3 | 33166.1 | 26169.5 | 19487.4 |
| 72.5° | 2710.2 | 2721.7 | 3021.5 | 3812.9 | 5050.0 | 11997.6 | 33243.1 | 37016.8 | 32197.7 | 22813.7 | 14812.6 |
| 75° | 1840.1 | 1871.2 | 2300.5 | 3128.0 | 4427.4 | 6103.6 | 23590.4 | 28139.0 | 26218.6 | 16580.6 | 8514.0 |
| 77.5° | 989.7 | 1024.1 | 1530.4 | 2520.1 | 4003.0 | 4240.6 | 15174.7 | 19366.2 | 16469.2 | 7453.8 | 2467.7 |
| 80° | 412.9 | 432.6 | 716.1 | 1831.9 | 3459.0 | 3724.5 | 8928.5 | 11743.6 | 7018.0 | 1469.8 | 550.6 |
| 82.5° | 178.6 | 188.4 | 298.2 | 1092.9 | 2585.7 | 3144.4 | 4727.3 | 5649.8 | 2126.9 | 322.8 | 276.9 |
| 85° | 34.4 | 36.0 | 122.9 | 578.4 | 1650.0 | 1774.6 | 3064.1 | 3003.5 | 955.3 | 139.3 | 201.5 |
| 87.5° | 0.0 | 0.0 | 29.5 | 181.9 | 485.0 | 966.8 | 1869.6 | 1846.7 | 324.4 | 67.2 | 75.4 |
| 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-SAOA-750-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11640.3 | 11640.3 | 11640.3 | 11640.3 | 11640.3 | 11640.3 | 11640.3 | 11640.3 | 11640.3 | 11640.3 | 11640.3 |
| 2.5° | 11548.6 | 11435.5 | 11197.9 | 10904.6 | 10680.1 | 10432.7 | 10236.1 | 9987.0 | 9878.9 | 9883.8 | 9824.8 |
| 5° | 11289.7 | 11057.0 | 10531.0 | 9867.4 | 9356.2 | 8828.6 | 8374.7 | 7922.4 | 7655.4 | 7568.5 | 7486.6 |
| 7.5° | 10919.4 | 10550.7 | 9711.8 | 8689.3 | 7824.1 | 6978.6 | 6242.9 | 5595.7 | 5186.0 | 4986.1 | 4912.4 |
| 10° | 10501.5 | 9983.8 | 8769.6 | 7422.7 | 6187.2 | 5043.5 | 4089.9 | 3260.7 | 2929.7 | 2705.3 | 2647.9 |
| 12.5° | 10134.5 | 9433.2 | 7848.7 | 6123.3 | 4656.8 | 3277.1 | 2367.7 | 1851.6 | 1627.1 | 1538.6 | 1523.9 |
| 15° | 9788.8 | 8918.7 | 6962.3 | 4946.8 | 3224.7 | 2017.1 | 1505.8 | 1330.5 | 1278.1 | 1263.3 | 1263.3 |
| 17.5° | 9462.7 | 8428.8 | 6095.5 | 3788.4 | 2133.4 | 1414.1 | 1246.9 | 1207.6 | 1191.2 | 1189.6 | 1191.2 |
| 20° | 9121.9 | 7938.8 | 5243.4 | 2775.7 | 1489.5 | 1197.8 | 1151.9 | 1130.6 | 1125.7 | 1125.7 | 1125.7 |
| 22.5° | 8795.8 | 7448.9 | 4414.3 | 1982.7 | 1194.5 | 1092.9 | 1070.0 | 1055.2 | 1050.3 | 1048.7 | 1045.4 |
| 25° | 8482.8 | 6983.6 | 3604.8 | 1401.0 | 1048.7 | 1001.2 | 981.5 | 961.8 | 947.1 | 938.9 | 934.0 |
| 27.5° | 8225.6 | 6569.0 | 2851.1 | 1124.1 | 947.1 | 906.1 | 881.5 | 852.1 | 816.0 | 799.6 | 793.1 |
| 30° | 8020.8 | 6190.5 | 2197.3 | 948.7 | 852.1 | 811.1 | 773.4 | 722.6 | 670.2 | 642.3 | 640.7 |
| 32.5° | 7860.2 | 5818.5 | 1668.1 | 838.9 | 766.8 | 716.1 | 662.0 | 598.1 | 537.4 | 506.3 | 504.7 |
| 35° | 7781.5 | 5490.8 | 1274.8 | 758.7 | 691.5 | 627.6 | 560.4 | 489.9 | 430.9 | 401.4 | 398.2 |
| 37.5° | 7834.0 | 5213.9 | 994.6 | 691.5 | 627.6 | 553.8 | 475.2 | 401.4 | 349.0 | 322.8 | 321.2 |
| 40° | 8025.7 | 5036.9 | 807.8 | 634.1 | 573.5 | 483.4 | 398.2 | 329.4 | 285.1 | 263.8 | 262.2 |
| 42.5° | 8433.7 | 4971.4 | 689.8 | 586.6 | 521.1 | 417.8 | 331.0 | 272.0 | 231.0 | 216.3 | 213.0 |
| 45° | 9115.3 | 5068.1 | 609.5 | 540.7 | 467.0 | 355.6 | 273.6 | 222.8 | 186.8 | 175.3 | 173.7 |
| 47.5° | 10023.1 | 5322.1 | 552.2 | 496.5 | 417.8 | 299.9 | 227.8 | 180.2 | 152.4 | 140.9 | 139.3 |
| 50° | 11193.0 | 5725.1 | 504.7 | 452.2 | 372.0 | 254.0 | 188.4 | 142.6 | 118.0 | 109.8 | 109.8 |
| 52.5° | 12466.2 | 6205.2 | 462.1 | 411.3 | 326.1 | 211.4 | 152.4 | 109.8 | 93.4 | 83.6 | 83.6 |
| 55° | 13518.1 | 6624.7 | 416.2 | 380.1 | 270.4 | 175.3 | 116.3 | 83.6 | 68.8 | 63.9 | 63.9 |
| 57.5° | 14568.5 | 7072.0 | 363.8 | 326.1 | 216.3 | 142.6 | 88.5 | 62.3 | 50.8 | 47.5 | 47.5 |
| 60° | 15930.1 | 7619.3 | 313.0 | 265.4 | 170.4 | 108.1 | 65.5 | 44.2 | 37.7 | 36.0 | 36.0 |
| 62.5° | 17427.7 | 7940.5 | 267.1 | 213.0 | 132.7 | 80.3 | 47.5 | 29.5 | 27.9 | 27.9 | 26.2 |
| 65° | 18343.7 | 7486.6 | 224.5 | 170.4 | 103.2 | 60.6 | 31.1 | 21.3 | 24.6 | 22.9 | 19.7 |
| 67.5° | 17175.4 | 5861.1 | 183.5 | 132.7 | 80.3 | 45.9 | 19.7 | 14.7 | 26.2 | 21.3 | 16.4 |
| 70° | 14221.1 | 4103.0 | 142.6 | 93.4 | 63.9 | 39.3 | 13.1 | 9.8 | 27.9 | 21.3 | 13.1 |
| 72.5° | 10642.5 | 2746.2 | 113.1 | 62.3 | 47.5 | 34.4 | 11.5 | 4.9 | 24.6 | 18.0 | 11.5 |
| 75° | 5815.3 | 1106.0 | 90.1 | 39.3 | 29.5 | 24.6 | 8.2 | 3.3 | 16.4 | 13.1 | 8.2 |
| 77.5° | 1530.4 | 291.7 | 65.5 | 26.2 | 16.4 | 9.8 | 4.9 | 1.6 | 8.2 | 6.6 | 3.3 |
| 80° | 390.0 | 113.1 | 42.6 | 18.0 | 11.5 | 4.9 | 0.0 | 0.0 | 1.6 | 0.0 | 0.0 |
| 82.5° | 208.1 | 47.5 | 26.2 | 13.1 | 6.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 157.3 | 31.1 | 14.7 | 8.2 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 60.6 | 9.8 | 4.9 | 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)