

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: P319407

Luminaire Tested: **GAN-SA3C-750-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3C-750-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21154 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

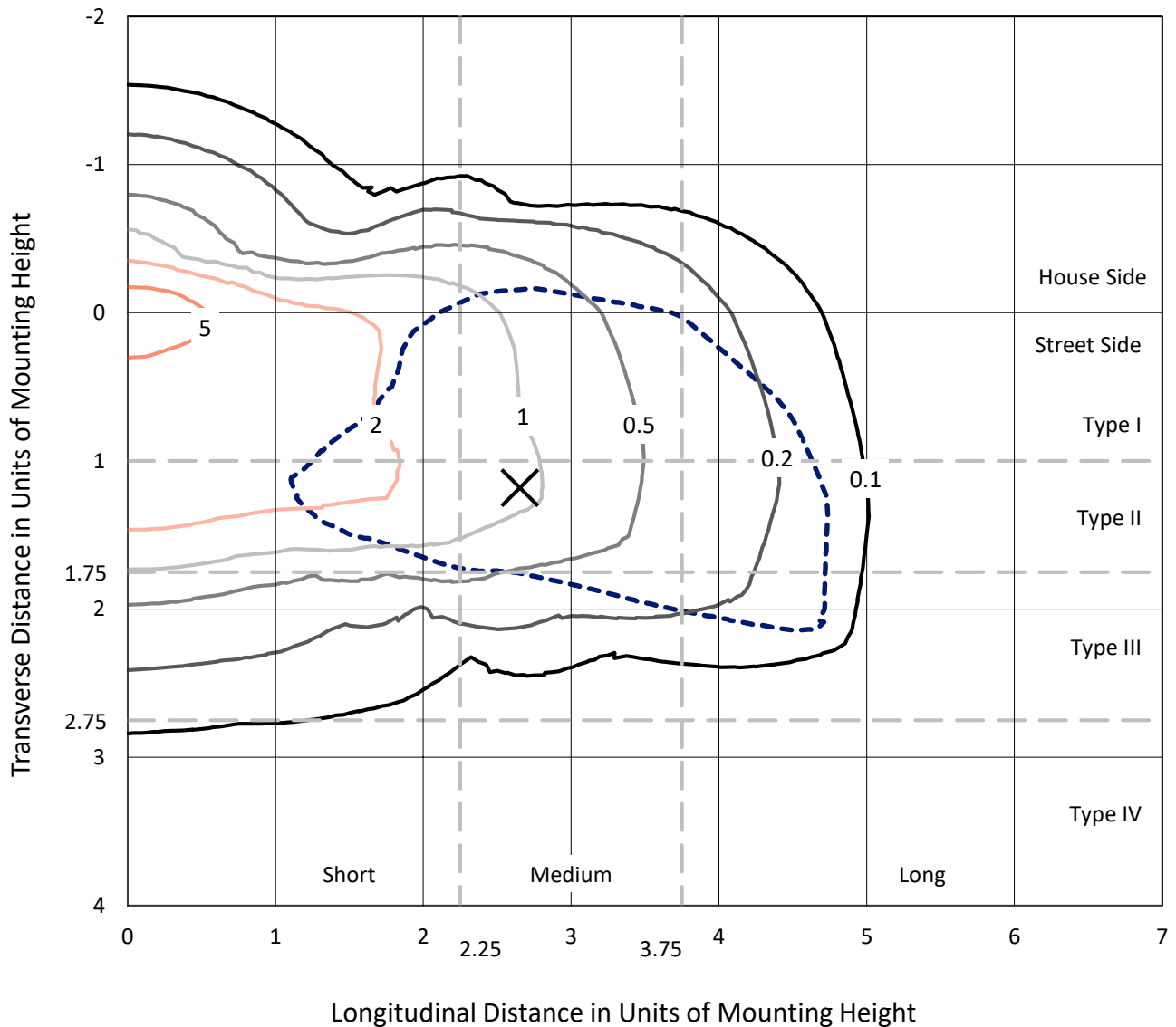
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

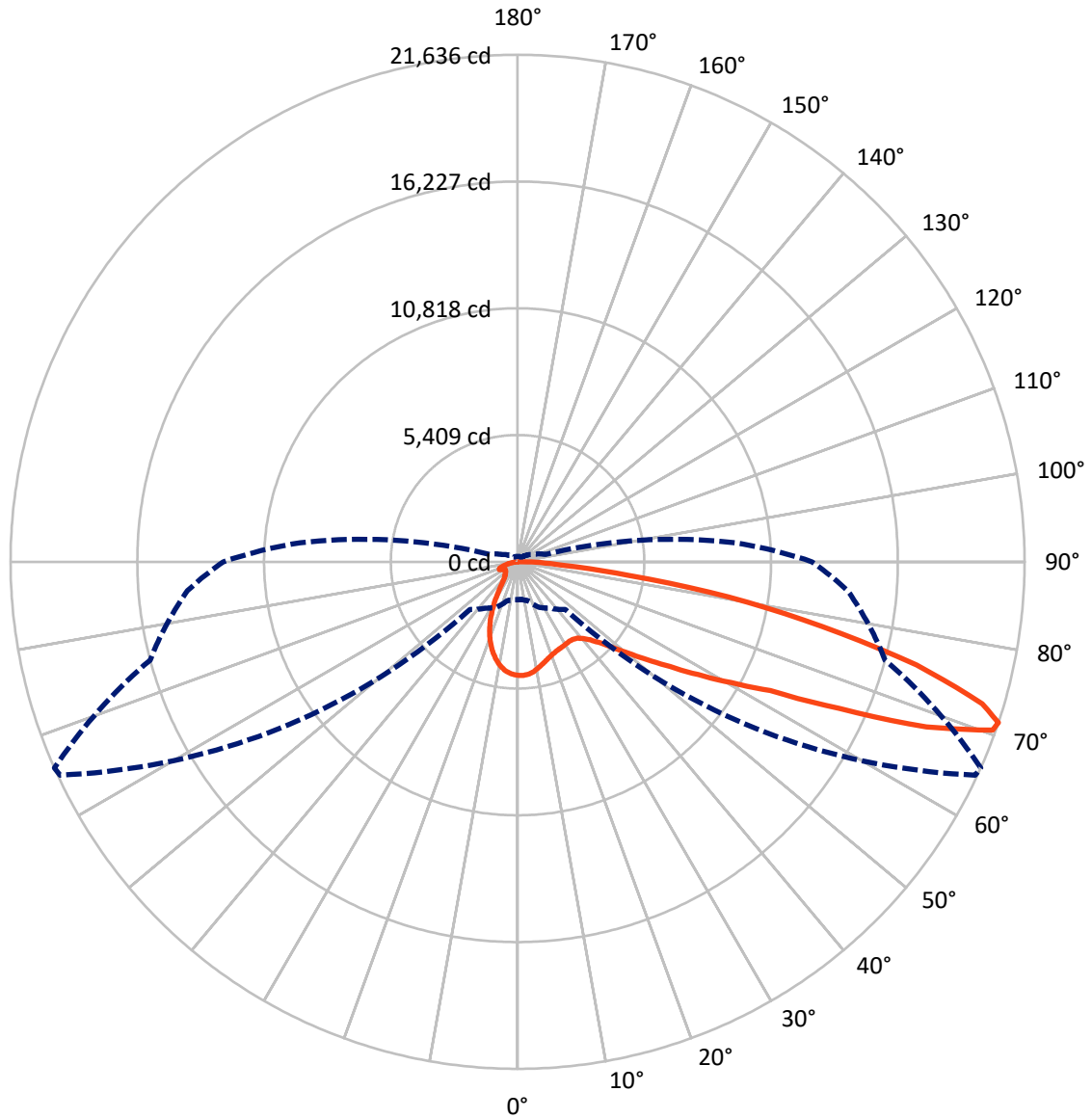
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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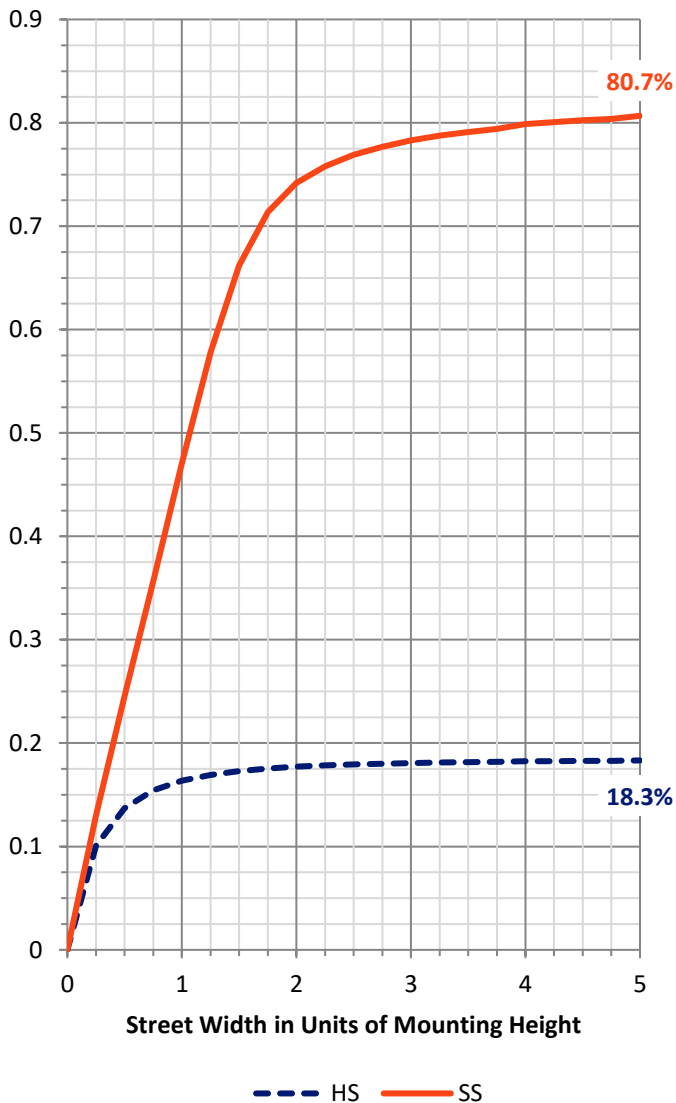
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3920.4 | 0.0 | 3920.4 |
| | % Fixture | 18.5 | 0.0 | 18.5 |
| Street Side | Lumens | 17233.6 | 0.0 | 17233.6 |
| | % Fixture | 81.5 | 0.0 | 81.5 |
| Total | Lumens | 21154.0 | 0.0 | 21154.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 426.6 | 2.0 |
| 10°-20° | 1023.1 | 4.8 |
| 20°-30° | 1374.3 | 6.5 |
| 30°-40° | 1807.8 | 8.5 |
| 40°-50° | 2629.9 | 12.4 |
| 50°-60° | 4108.2 | 19.4 |
| 60°-70° | 5146.1 | 24.3 |
| 70°-80° | 3925.3 | 18.6 |
| 80°-90° | 712.8 | 3.4 |
| 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° | 21154.0 | 100.0 |
| 0°-180° | 21154.0 | 100.0 |

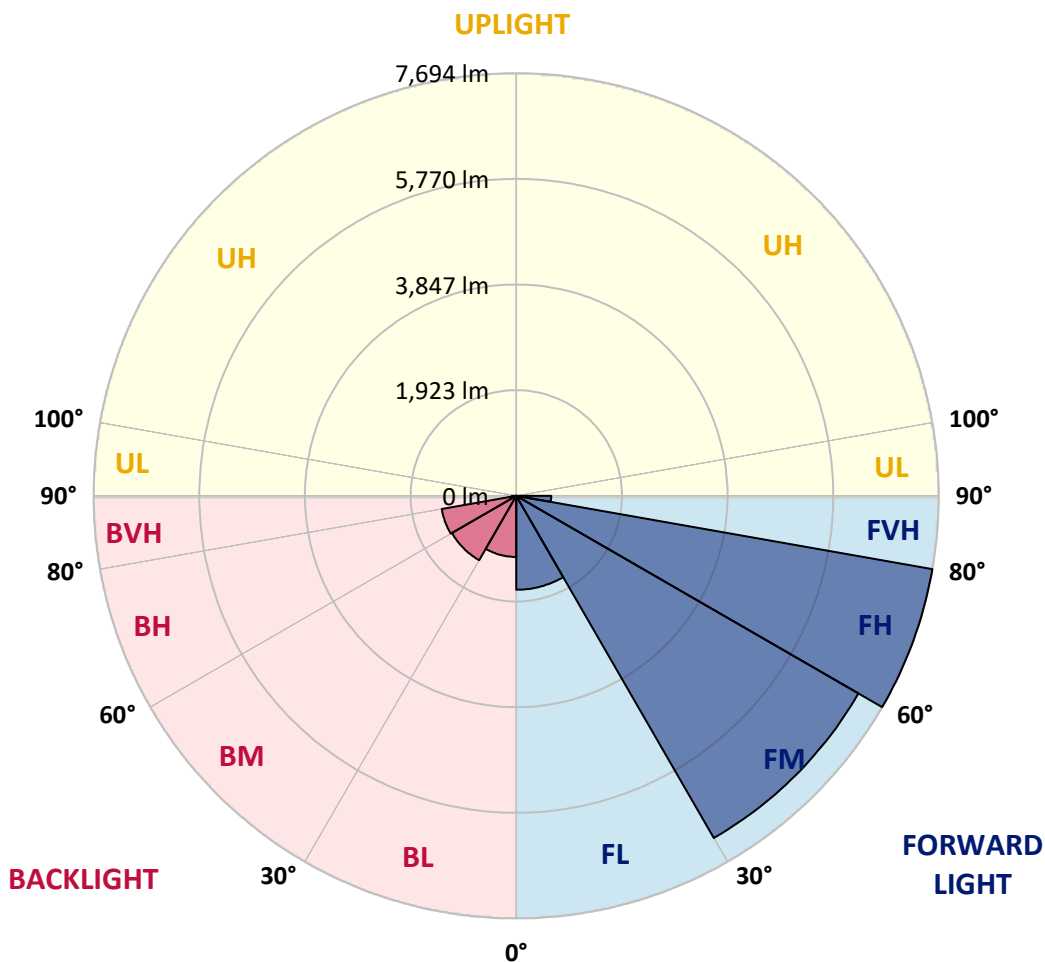


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1710.6 | 8.1 | | | |
| FM (30°-60°) | 7193.4 | 34.0 | | | |
| FH (60°-80°) | 7693.9 | 36.4 | | | G4/12000 |
| FVH (80°-90°) | 635.6 | 3.0 | | | G4/750 |
| BL (0°-30°) | 1113.3 | 5.3 | B3/2500 | | |
| BM (30°-60°) | 1352.4 | 6.4 | B2/2500 | | |
| BH (60°-80°) | 1377.5 | 6.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 77.2 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 4846.0 | 4846.0 | 4846.0 | 4846.0 | 4846.0 | 4846.0 | 4846.0 | 4846.0 | 4846.0 | 4846.0 | 4846.0 |
| 2.5° | 4756.1 | 4748.8 | 4770.7 | 4793.4 | 4802.1 | 4816.8 | 4838.7 | 4851.1 | 4850.4 | 4852.5 | 4845.2 |
| 5° | 4440.6 | 4431.1 | 4474.9 | 4510.7 | 4579.4 | 4656.8 | 4751.0 | 4818.2 | 4819.7 | 4857.7 | 4867.9 |
| 7.5° | 4141.9 | 4135.3 | 4185.7 | 4243.4 | 4323.0 | 4441.3 | 4594.0 | 4738.6 | 4747.4 | 4850.4 | 4886.1 |
| 10° | 3902.3 | 3900.9 | 3949.8 | 4012.6 | 4105.4 | 4237.6 | 4412.9 | 4624.7 | 4637.8 | 4815.3 | 4889.1 |
| 12.5° | 3715.4 | 3718.3 | 3760.6 | 3832.2 | 3930.1 | 4068.1 | 4258.0 | 4496.9 | 4518.0 | 4759.8 | 4872.3 |
| 15° | 3577.3 | 3589.0 | 3623.3 | 3695.6 | 3792.1 | 3932.3 | 4127.3 | 4378.5 | 4410.7 | 4697.7 | 4862.8 |
| 17.5° | 3498.4 | 3511.6 | 3535.7 | 3595.6 | 3686.2 | 3821.3 | 4006.1 | 4281.4 | 4310.6 | 4650.2 | 4863.5 |
| 20° | 3475.1 | 3486.0 | 3499.9 | 3536.4 | 3613.1 | 3735.8 | 3910.4 | 4193.8 | 4225.2 | 4612.3 | 4870.8 |
| 22.5° | 3521.1 | 3529.1 | 3530.6 | 3527.7 | 3574.4 | 3674.5 | 3841.0 | 4129.5 | 4163.1 | 4587.4 | 4875.9 |
| 25° | 3619.7 | 3630.6 | 3622.6 | 3595.6 | 3580.2 | 3641.6 | 3805.2 | 4087.1 | 4120.7 | 4569.2 | 4865.7 |
| 27.5° | 3768.0 | 3769.4 | 3762.8 | 3727.8 | 3655.5 | 3645.3 | 3794.2 | 4062.3 | 4094.4 | 4548.0 | 4844.5 |
| 30° | 3969.5 | 3979.0 | 3967.3 | 3919.9 | 3801.5 | 3703.7 | 3807.4 | 4038.2 | 4067.4 | 4521.0 | 4810.2 |
| 32.5° | 4205.4 | 4228.8 | 4228.1 | 4178.4 | 4009.0 | 3834.4 | 3861.4 | 4023.6 | 4046.2 | 4492.5 | 4768.6 |
| 35° | 4450.1 | 4482.3 | 4542.1 | 4521.0 | 4311.3 | 4041.1 | 3965.2 | 4047.0 | 4062.3 | 4488.8 | 4739.3 |
| 37.5° | 4704.3 | 4736.4 | 4859.8 | 4916.8 | 4671.4 | 4336.9 | 4128.8 | 4129.5 | 4136.8 | 4533.4 | 4737.1 |
| 40° | 4970.1 | 5004.5 | 5190.0 | 5338.2 | 5138.1 | 4711.6 | 4392.4 | 4301.8 | 4293.8 | 4642.9 | 4780.2 |
| 42.5° | 5342.6 | 5373.3 | 5596.1 | 5785.2 | 5655.9 | 5191.4 | 4756.9 | 4567.7 | 4550.9 | 4857.7 | 4918.3 |
| 45° | 5813.7 | 5840.0 | 6076.6 | 6278.9 | 6212.5 | 5739.2 | 5214.8 | 4933.6 | 4930.7 | 5215.5 | 5198.0 |
| 47.5° | 6373.9 | 6394.3 | 6606.9 | 6802.6 | 6826.7 | 6369.5 | 5790.3 | 5498.2 | 5450.7 | 5706.3 | 5631.1 |
| 50° | 6957.5 | 6980.1 | 7124.7 | 7335.1 | 7514.0 | 7213.1 | 6530.9 | 6189.8 | 6126.3 | 6354.2 | 6244.6 |
| 52.5° | 7343.8 | 7373.8 | 7499.4 | 7766.0 | 8286.7 | 8137.7 | 7406.6 | 7028.3 | 6931.9 | 7139.3 | 7055.3 |
| 55° | 7171.5 | 7238.6 | 7430.7 | 7858.0 | 8904.6 | 9550.3 | 8486.8 | 8006.3 | 7897.4 | 8069.8 | 8020.1 |
| 57.5° | 6387.8 | 6479.8 | 6742.0 | 7401.5 | 8991.5 | 10794.8 | 10119.9 | 9158.0 | 9081.4 | 9031.7 | 9054.3 |
| 60° | 4955.5 | 5043.9 | 5368.9 | 6228.6 | 8386.1 | 11703.4 | 12577.6 | 10577.9 | 10466.9 | 9997.2 | 10017.7 |
| 62.5° | 3507.2 | 3462.7 | 3685.4 | 4314.3 | 6814.3 | 11810.0 | 15374.2 | 12476.8 | 12111.6 | 11016.8 | 10927.0 |
| 65° | 2674.6 | 2664.4 | 2764.4 | 2964.6 | 4127.3 | 10534.1 | 17040.1 | 15668.5 | 15098.1 | 12216.1 | 12004.3 |
| 67.5° | 2197.7 | 2179.4 | 2278.0 | 2569.4 | 2657.8 | 6796.0 | 17076.7 | 19371.5 | 18811.3 | 13709.0 | 13250.3 |
| 70° | 1806.9 | 1786.5 | 1878.5 | 2254.6 | 2456.2 | 3446.6 | 14372.1 | 21539.9 | 21510.0 | 15599.1 | 14191.0 |
| 71° | 1619.9 | 1605.3 | 1715.6 | 2133.4 | 2413.1 | 2872.5 | 12408.9 | 21545.8 | 21635.6 | 16238.9 | 14135.5 |
| 72.5° | 1319.0 | 1324.2 | 1441.0 | 1898.9 | 2381.0 | 2536.6 | 9120.1 | 20541.5 | 20731.4 | 16848.8 | 13630.8 |
| 75° | 876.4 | 880.8 | 1034.2 | 1460.7 | 2308.7 | 2481.8 | 5012.5 | 17236.6 | 17585.7 | 16483.6 | 12438.1 |
| 77.5° | 588.7 | 587.2 | 691.7 | 1002.1 | 2011.4 | 2481.8 | 2939.0 | 12891.7 | 13275.1 | 13115.9 | 9589.0 |
| 80° | 405.4 | 402.4 | 476.2 | 691.7 | 1522.8 | 2511.7 | 2272.2 | 9034.6 | 9150.7 | 7083.1 | 3897.2 |
| 82.5° | 248.3 | 250.5 | 311.1 | 488.6 | 1036.4 | 2260.5 | 2145.1 | 4926.3 | 4800.0 | 1986.6 | 973.6 |
| 85° | 142.4 | 141.7 | 198.7 | 330.9 | 665.4 | 1907.7 | 2091.8 | 2120.2 | 1945.0 | 598.2 | 352.0 |
| 87.5° | 51.1 | 54.8 | 106.6 | 183.3 | 381.3 | 1328.5 | 1774.8 | 1102.9 | 994.0 | 270.2 | 159.2 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4846.0 | 4846.0 | 4846.0 | 4846.0 | 4846.0 | 4846.0 | 4846.0 | 4846.0 | 4846.0 | 4846.0 | 4846.0 |
| 2.5° | 4840.1 | 4844.5 | 4839.4 | 4810.2 | 4785.4 | 4745.2 | 4722.5 | 4691.1 | 4681.6 | 4677.3 | 4688.9 |
| 5° | 4858.4 | 4859.8 | 4816.8 | 4740.1 | 4653.9 | 4552.4 | 4479.3 | 4389.5 | 4347.1 | 4328.9 | 4340.6 |
| 7.5° | 4875.2 | 4868.6 | 4774.4 | 4627.6 | 4468.4 | 4291.6 | 4134.6 | 3990.7 | 3906.7 | 3872.4 | 3875.3 |
| 10° | 4877.4 | 4849.6 | 4698.4 | 4471.3 | 4224.4 | 3965.2 | 3724.1 | 3502.1 | 3361.9 | 3270.6 | 3298.3 |
| 12.5° | 4854.7 | 4808.0 | 4586.7 | 4269.0 | 3926.4 | 3572.9 | 3247.2 | 2914.2 | 2714.0 | 2621.3 | 2624.2 |
| 15° | 4837.2 | 4752.5 | 4449.4 | 4030.9 | 3570.8 | 3102.6 | 2657.8 | 2266.3 | 2053.1 | 1958.1 | 1913.6 |
| 17.5° | 4822.6 | 4692.6 | 4290.2 | 3762.8 | 3150.8 | 2557.0 | 2022.4 | 1673.3 | 1556.4 | 1528.7 | 1517.0 |
| 20° | 4802.1 | 4629.1 | 4112.7 | 3452.4 | 2672.4 | 1946.4 | 1476.8 | 1304.4 | 1305.2 | 1337.3 | 1341.7 |
| 22.5° | 4773.7 | 4556.7 | 3923.5 | 3104.1 | 2159.0 | 1417.6 | 1157.6 | 1108.0 | 1158.4 | 1219.7 | 1230.7 |
| 25° | 4731.3 | 4471.3 | 3713.2 | 2719.1 | 1646.2 | 1089.7 | 988.9 | 986.7 | 1048.1 | 1112.3 | 1121.8 |
| 27.5° | 4671.4 | 4359.5 | 3479.5 | 2305.8 | 1213.1 | 926.1 | 885.9 | 901.3 | 946.6 | 993.3 | 996.9 |
| 30° | 4591.1 | 4229.5 | 3221.6 | 1869.7 | 950.9 | 824.6 | 820.2 | 834.1 | 861.8 | 894.7 | 897.6 |
| 32.5° | 4502.7 | 4097.3 | 2946.3 | 1447.6 | 814.4 | 769.8 | 774.2 | 780.8 | 793.9 | 807.1 | 810.0 |
| 35° | 4422.4 | 3962.2 | 2664.4 | 1099.9 | 749.4 | 734.0 | 731.1 | 729.6 | 731.1 | 726.7 | 727.4 |
| 37.5° | 4370.5 | 3850.5 | 2370.8 | 875.7 | 712.1 | 702.6 | 693.8 | 682.9 | 670.5 | 663.2 | 664.6 |
| 40° | 4351.5 | 3767.2 | 2073.5 | 756.7 | 681.4 | 674.9 | 658.1 | 634.7 | 620.1 | 615.7 | 615.7 |
| 42.5° | 4402.6 | 3724.1 | 1786.5 | 696.8 | 655.9 | 644.9 | 617.2 | 590.1 | 579.2 | 578.4 | 577.7 |
| 45° | 4558.9 | 3741.7 | 1513.3 | 663.9 | 632.5 | 611.3 | 574.8 | 552.2 | 544.9 | 546.3 | 545.6 |
| 47.5° | 4839.4 | 3851.9 | 1279.6 | 642.0 | 609.1 | 581.4 | 540.5 | 522.2 | 513.4 | 513.4 | 514.2 |
| 50° | 5316.3 | 4109.8 | 1093.4 | 623.7 | 589.4 | 553.6 | 515.6 | 493.0 | 481.3 | 480.6 | 480.6 |
| 52.5° | 6010.9 | 4571.4 | 977.2 | 608.4 | 567.5 | 528.8 | 490.8 | 462.3 | 448.4 | 445.5 | 444.1 |
| 55° | 6881.5 | 5233.1 | 945.1 | 598.2 | 538.3 | 501.8 | 460.9 | 432.4 | 417.0 | 410.5 | 409.7 |
| 57.5° | 7855.1 | 6037.9 | 1008.6 | 585.8 | 508.3 | 469.6 | 428.0 | 401.0 | 384.9 | 376.9 | 376.1 |
| 60° | 8840.3 | 6916.6 | 1267.9 | 568.2 | 483.5 | 434.6 | 394.4 | 369.6 | 353.5 | 344.7 | 343.3 |
| 62.5° | 9827.1 | 7842.7 | 1797.4 | 566.8 | 466.0 | 401.0 | 360.1 | 338.9 | 323.6 | 314.1 | 311.9 |
| 65° | 10940.1 | 8856.4 | 2399.2 | 605.5 | 460.1 | 370.3 | 325.0 | 308.2 | 295.1 | 286.3 | 285.6 |
| 67.5° | 12218.3 | 10000.9 | 2341.6 | 685.1 | 479.8 | 342.5 | 292.1 | 279.0 | 269.5 | 262.2 | 261.5 |
| 70° | 12817.9 | 9821.9 | 1455.6 | 741.3 | 507.6 | 315.5 | 260.7 | 251.2 | 243.9 | 238.8 | 236.6 |
| 71° | 12566.7 | 9326.0 | 1220.4 | 734.7 | 504.7 | 303.8 | 248.3 | 241.0 | 233.7 | 229.3 | 227.1 |
| 72.5° | 11881.6 | 8505.1 | 1018.1 | 683.6 | 471.8 | 282.7 | 232.3 | 225.0 | 218.4 | 213.3 | 211.8 |
| 75° | 10661.9 | 7595.8 | 815.1 | 546.3 | 376.1 | 238.8 | 203.8 | 195.7 | 190.6 | 187.7 | 184.8 |
| 77.5° | 7837.5 | 5420.8 | 630.3 | 431.6 | 276.8 | 195.0 | 173.8 | 168.0 | 162.9 | 158.5 | 156.3 |
| 80° | 3002.5 | 2099.8 | 424.3 | 322.1 | 203.0 | 154.1 | 140.2 | 137.3 | 132.2 | 129.3 | 129.3 |
| 82.5° | 808.5 | 627.4 | 226.4 | 195.0 | 135.8 | 112.5 | 107.4 | 105.9 | 101.5 | 95.7 | 96.4 |
| 85° | 327.2 | 276.8 | 127.1 | 107.4 | 83.3 | 66.5 | 72.3 | 73.0 | 67.9 | 60.6 | 61.4 |
| 87.5° | 143.9 | 117.6 | 70.8 | 47.5 | 36.5 | 25.6 | 32.9 | 32.9 | 29.9 | 24.8 | 22.6 |
| 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)