

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: P322553

Luminaire Tested: **GAN-SA9A-740-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29586 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

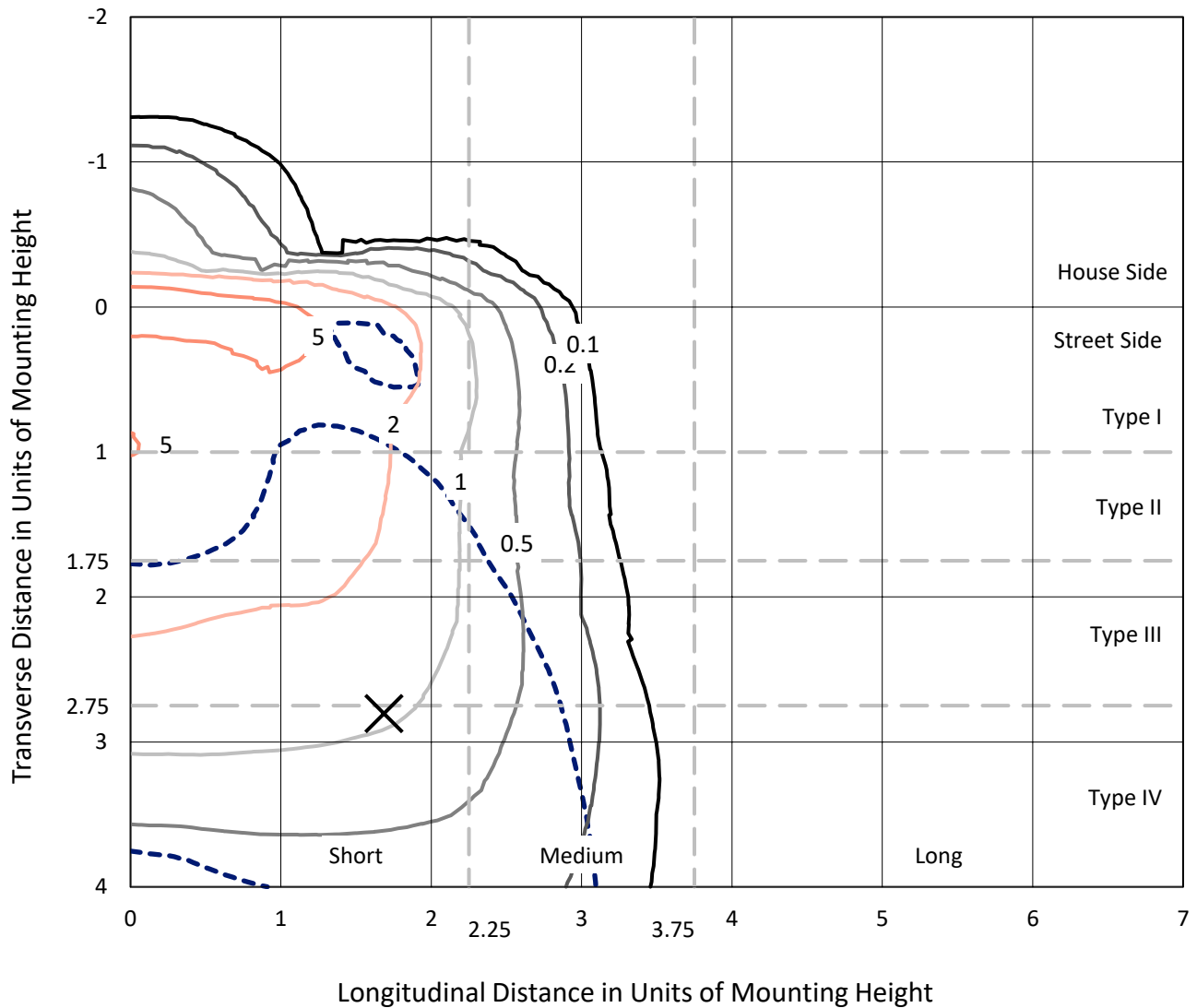
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

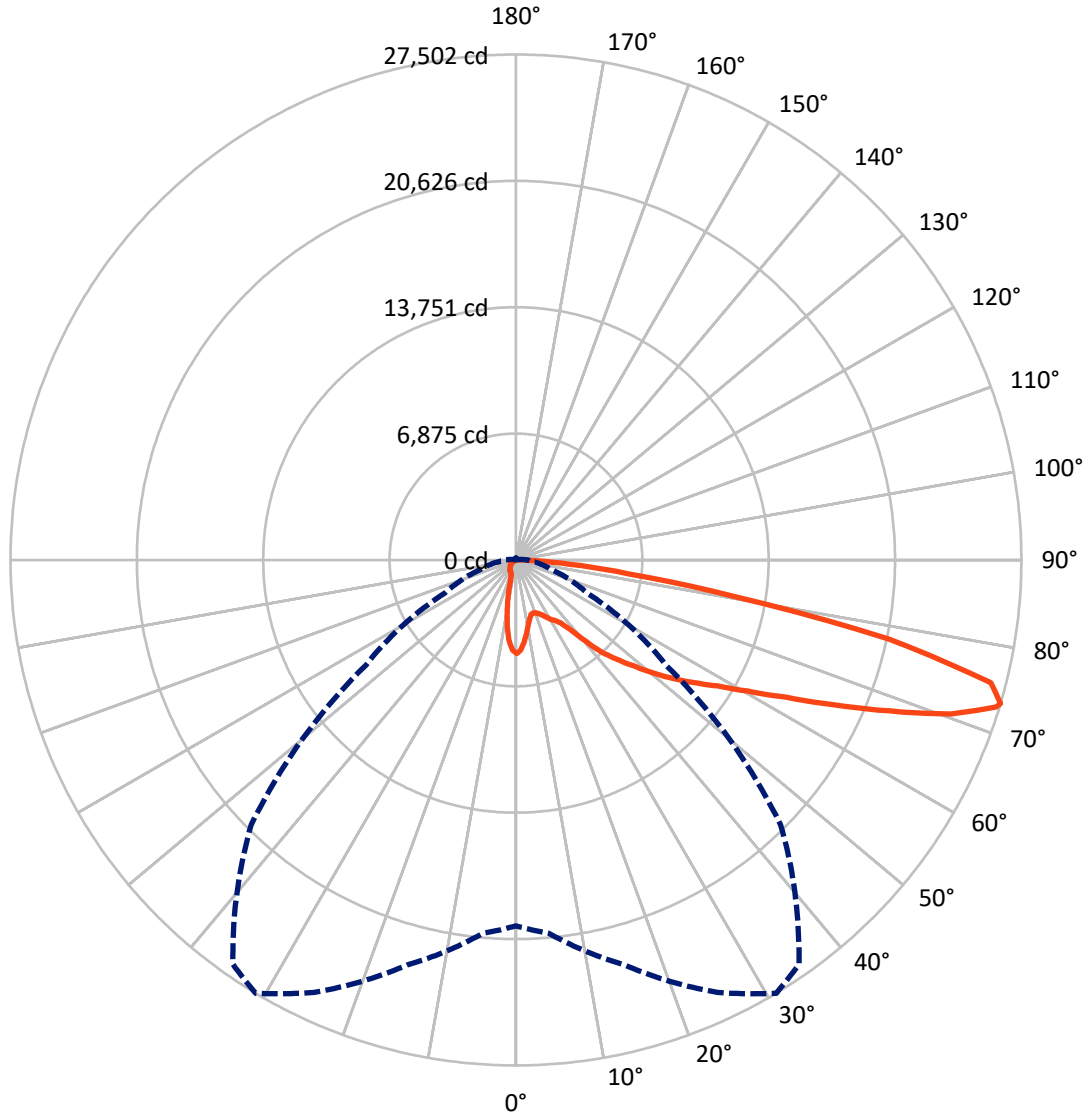
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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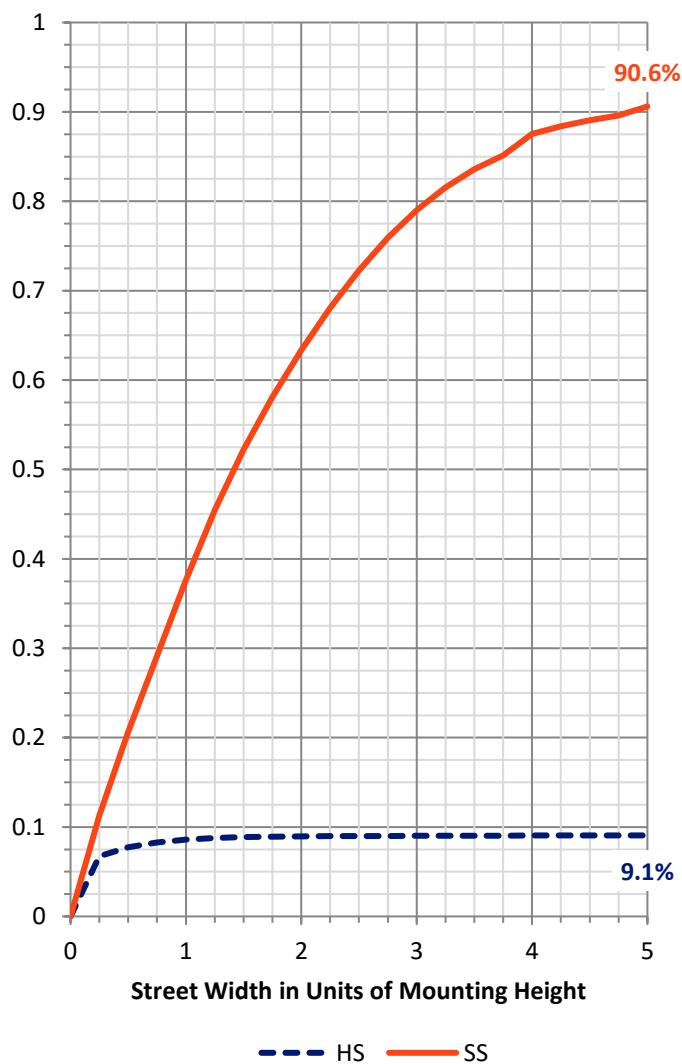
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2696.9 | 0.0 | 2696.9 |
| | % Fixture | 9.1 | 0.0 | 9.1 |
| Street Side | Lumens | 26889.1 | 0.0 | 26889.1 |
| | % Fixture | 90.9 | 0.0 | 90.9 |
| Total | Lumens | 29586.0 | 0.0 | 29586.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 422.1 | 1.4 |
| 10°-20° | 916.4 | 3.1 |
| 20°-30° | 1373.1 | 4.6 |
| 30°-40° | 2184.5 | 7.4 |
| 40°-50° | 3901.0 | 13.2 |
| 50°-60° | 6053.2 | 20.5 |
| 60°-70° | 8046.9 | 27.2 |
| 70°-80° | 6052.9 | 20.5 |
| 80°-90° | 636.0 | 2.1 |
| 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° | 29586.0 | 100.0 |
| 0°-180° | 29586.0 | 100.0 |

Coefficient of Utilization

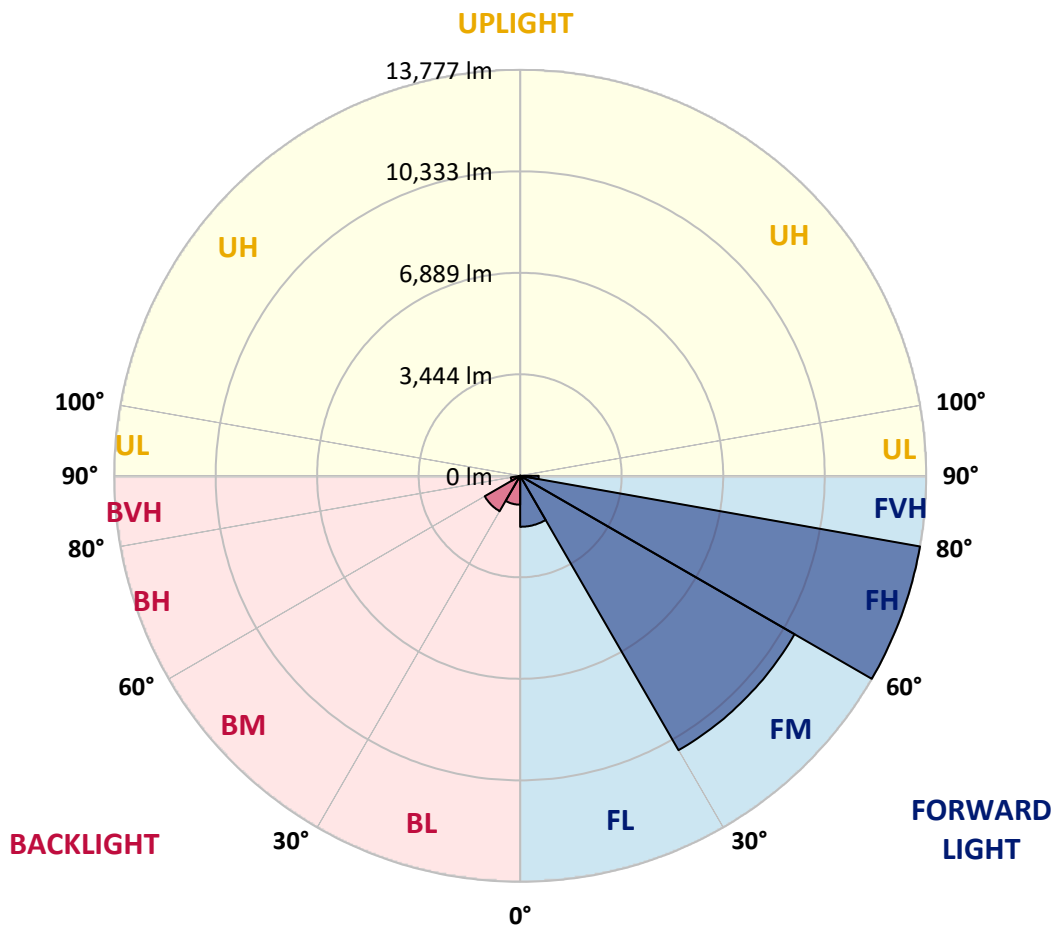


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1730.8 | 5.9 | | | |
| FM (30°-60°) | 10750.5 | 36.3 | | | |
| FH (60°-80°) | 13777.1 | 46.6 | | | G5 |
| FVH (80°-90°) | 630.7 | 2.1 | | | G4/750 |
| BL (0°-30°) | 980.7 | 3.3 | B2/1000 | | |
| BM (30°-60°) | 1388.2 | 4.7 | B2/2500 | | |
| BH (60°-80°) | 322.7 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.4 | 0.0 | | | G0/10 |
| 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 31° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5090.3 | 5090.3 | 5090.3 | 5090.3 | 5090.3 | 5090.3 | 5090.3 | 5090.3 | 5090.3 | 5090.3 | 5090.3 |
| 2.5° | 4823.9 | 4844.2 | 4865.9 | 4870.3 | 4906.5 | 4907.9 | 4960.0 | 4999.1 | 5038.2 | 5075.9 | 5088.9 |
| 5° | 4328.8 | 4362.1 | 4401.2 | 4440.3 | 4517.0 | 4547.4 | 4674.8 | 4805.1 | 4929.6 | 5048.3 | 5106.3 |
| 7.5° | 3800.4 | 3838.0 | 3893.0 | 3990.0 | 4075.5 | 4134.8 | 4336.0 | 4567.7 | 4799.3 | 5017.9 | 5143.9 |
| 10° | 3318.3 | 3353.0 | 3410.9 | 3513.7 | 3645.5 | 3726.5 | 3997.3 | 4318.7 | 4658.9 | 4990.4 | 5200.4 |
| 12.5° | 3011.3 | 3030.2 | 3062.0 | 3172.0 | 3290.8 | 3382.0 | 3700.5 | 4098.6 | 4543.1 | 4989.0 | 5291.6 |
| 15° | 2954.9 | 2960.7 | 2934.6 | 2983.8 | 3076.5 | 3164.8 | 3487.7 | 3920.5 | 4454.8 | 5012.2 | 5410.3 |
| 17.5° | 3044.6 | 3041.7 | 2954.9 | 2949.1 | 3022.9 | 3095.3 | 3383.4 | 3797.5 | 4392.5 | 5065.7 | 5563.8 |
| 20° | 3180.7 | 3170.6 | 3020.0 | 2992.5 | 3070.7 | 3138.7 | 3376.2 | 3751.2 | 4369.3 | 5155.5 | 5750.5 |
| 22.5° | 3361.7 | 3344.3 | 3108.3 | 3079.4 | 3163.4 | 3234.3 | 3465.9 | 3796.0 | 4389.6 | 5275.6 | 5967.7 |
| 25° | 3586.1 | 3560.0 | 3260.4 | 3228.5 | 3313.9 | 3384.9 | 3626.6 | 3924.9 | 4450.4 | 5421.9 | 6242.8 |
| 27.5° | 3839.5 | 3801.8 | 3503.6 | 3421.1 | 3518.1 | 3591.9 | 3840.9 | 4121.8 | 4546.0 | 5576.8 | 6580.1 |
| 30° | 4078.3 | 4029.1 | 3759.8 | 3623.7 | 3742.5 | 3825.0 | 4072.6 | 4356.3 | 4699.4 | 5815.7 | 7041.9 |
| 32.5° | 4318.7 | 4263.7 | 3988.6 | 3826.4 | 3933.6 | 4023.3 | 4311.4 | 4679.2 | 4987.5 | 6180.5 | 7655.8 |
| 35° | 4871.7 | 4813.8 | 4476.5 | 4208.6 | 4207.2 | 4257.9 | 4645.9 | 5120.7 | 5368.3 | 6688.7 | 8388.3 |
| 37.5° | 5802.6 | 5769.3 | 5447.9 | 4939.8 | 4803.7 | 4747.2 | 5101.9 | 5647.7 | 5915.6 | 7387.9 | 9215.0 |
| 40° | 6821.9 | 6792.9 | 6432.4 | 5972.0 | 5765.0 | 5626.0 | 5756.3 | 6381.7 | 6688.7 | 8242.1 | 10059.1 |
| 42.5° | 7972.8 | 7835.3 | 7192.5 | 7054.9 | 6869.6 | 6763.9 | 6646.7 | 7286.6 | 7638.4 | 9171.6 | 10895.9 |
| 45° | 9018.1 | 8786.5 | 7952.6 | 7744.1 | 7702.1 | 7728.2 | 7793.3 | 8502.7 | 8706.8 | 10276.2 | 11729.8 |
| 47.5° | 9640.6 | 9458.2 | 8818.3 | 8618.5 | 8606.9 | 8779.2 | 9271.5 | 9876.6 | 9770.9 | 11239.0 | 12463.8 |
| 50° | 10232.8 | 10067.7 | 9536.4 | 9585.6 | 9639.2 | 9873.7 | 10949.4 | 11289.6 | 10742.4 | 12112.0 | 13137.0 |
| 52.5° | 10712.0 | 10460.1 | 10182.1 | 10458.6 | 10722.1 | 11100.0 | 12680.9 | 12557.9 | 11431.5 | 12806.9 | 13713.2 |
| 55° | 10988.5 | 10874.1 | 11008.8 | 11286.8 | 11781.9 | 12395.7 | 14315.5 | 13613.3 | 11935.4 | 13441.0 | 14096.9 |
| 57.5° | 12001.9 | 11777.5 | 12045.4 | 12285.7 | 12931.4 | 13789.9 | 15715.5 | 14399.4 | 12298.7 | 13833.4 | 14185.2 |
| 60° | 13228.2 | 13047.2 | 13205.0 | 13604.6 | 14476.2 | 15485.3 | 17024.2 | 15040.8 | 12488.4 | 14085.3 | 13956.4 |
| 62.5° | 15179.8 | 14940.9 | 14842.5 | 15289.8 | 16445.1 | 17546.9 | 18017.4 | 15485.3 | 12446.4 | 13973.8 | 13171.7 |
| 65° | 17794.4 | 17546.9 | 17106.8 | 17512.1 | 18981.6 | 19759.1 | 19127.8 | 15579.4 | 12156.9 | 13071.8 | 11188.3 |
| 67.5° | 20472.8 | 20293.3 | 19916.9 | 20600.2 | 21926.4 | 22176.8 | 20302.0 | 15350.6 | 11224.5 | 10599.1 | 7904.8 |
| 70° | 22242.0 | 22165.2 | 22409.9 | 23921.4 | 25104.2 | 25031.8 | 21379.1 | 14121.5 | 8748.8 | 6517.8 | 3910.4 |
| 72.5° | 20966.5 | 21334.2 | 23141.0 | 25881.6 | 27326.5 | 26735.8 | 20826.1 | 10843.7 | 5000.6 | 2507.5 | 1130.7 |
| 73° | 19909.6 | 20380.1 | 22812.4 | 25955.5 | 27501.7 | 26854.5 | 20361.3 | 9953.4 | 4262.2 | 1979.1 | 857.1 |
| 75° | 13850.7 | 14428.4 | 18886.1 | 24173.3 | 26682.3 | 25586.3 | 16972.1 | 6092.2 | 1974.7 | 877.3 | 346.0 |
| 77.5° | 6724.9 | 7151.9 | 10399.3 | 17465.8 | 20750.8 | 19990.7 | 10565.8 | 2270.1 | 891.8 | 548.7 | 159.3 |
| 80° | 2510.4 | 2791.3 | 4514.1 | 8889.3 | 11991.8 | 12306.0 | 4647.3 | 858.5 | 593.6 | 441.6 | 81.1 |
| 82.5° | 657.3 | 732.6 | 1664.9 | 3964.0 | 6145.8 | 6432.4 | 1465.1 | 432.9 | 434.3 | 363.4 | 49.2 |
| 85° | 209.9 | 240.3 | 519.7 | 1779.3 | 2895.5 | 2542.3 | 382.2 | 209.9 | 315.6 | 270.7 | 27.5 |
| 87.5° | 26.1 | 33.3 | 165.0 | 418.4 | 638.5 | 354.7 | 59.4 | 62.3 | 134.6 | 150.6 | 15.9 |
| 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° | 5090.3 | 5090.3 | 5090.3 | 5090.3 | 5090.3 | 5090.3 | 5090.3 | 5090.3 | 5090.3 | 5090.3 | 5090.3 |
| 2.5° | 5101.9 | 5094.7 | 5096.1 | 5058.5 | 5033.9 | 4984.6 | 4934.0 | 4910.8 | 4886.2 | 4876.1 | 4886.2 |
| 5° | 5128.0 | 5114.9 | 5077.3 | 4961.5 | 4838.4 | 4679.2 | 4530.0 | 4417.1 | 4275.2 | 4236.2 | 4276.7 |
| 7.5° | 5168.5 | 5142.5 | 5032.4 | 4796.4 | 4522.8 | 4218.8 | 3877.1 | 3628.1 | 3424.0 | 3292.2 | 3340.0 |
| 10° | 5227.9 | 5178.6 | 4957.1 | 4556.1 | 4066.8 | 3528.2 | 3043.2 | 2665.3 | 2397.5 | 2287.5 | 2283.1 |
| 12.5° | 5327.8 | 5235.1 | 4864.5 | 4243.4 | 3509.4 | 2791.3 | 2155.7 | 1746.0 | 1528.8 | 1388.4 | 1385.5 |
| 15° | 5437.8 | 5301.7 | 4747.2 | 3868.4 | 2860.8 | 1999.4 | 1388.4 | 1077.1 | 936.7 | 891.8 | 886.0 |
| 17.5° | 5572.4 | 5378.4 | 4595.2 | 3406.6 | 2181.8 | 1324.7 | 906.3 | 816.5 | 810.7 | 806.4 | 806.4 |
| 20° | 5741.8 | 5469.6 | 4399.7 | 2878.2 | 1547.7 | 884.6 | 770.2 | 776.0 | 778.9 | 773.1 | 774.6 |
| 22.5° | 5938.7 | 5562.3 | 4166.7 | 2310.6 | 1046.7 | 739.8 | 736.9 | 744.1 | 747.0 | 744.1 | 745.6 |
| 25° | 6167.5 | 5669.4 | 3882.9 | 1715.6 | 755.7 | 702.2 | 709.4 | 719.5 | 726.8 | 726.8 | 726.8 |
| 27.5° | 6451.2 | 5799.7 | 3541.2 | 1197.3 | 652.9 | 663.1 | 683.3 | 702.2 | 712.3 | 715.2 | 715.2 |
| 30° | 6820.4 | 5961.9 | 3131.5 | 820.9 | 593.6 | 611.0 | 648.6 | 684.8 | 703.6 | 706.5 | 708.0 |
| 32.5° | 7286.6 | 6144.3 | 2656.6 | 606.6 | 542.9 | 555.9 | 596.5 | 657.3 | 693.5 | 699.3 | 699.3 |
| 35° | 7820.8 | 6355.7 | 2145.6 | 528.4 | 506.7 | 511.1 | 542.9 | 612.4 | 676.1 | 692.0 | 693.5 |
| 37.5° | 8405.7 | 6564.2 | 1631.6 | 493.7 | 476.3 | 476.3 | 499.5 | 558.8 | 634.1 | 683.3 | 689.1 |
| 40° | 8951.5 | 6690.1 | 1143.7 | 466.2 | 448.8 | 448.8 | 469.1 | 512.5 | 583.4 | 657.3 | 673.2 |
| 42.5° | 9455.3 | 6733.5 | 796.3 | 440.1 | 422.7 | 427.1 | 444.5 | 479.2 | 532.8 | 606.6 | 621.1 |
| 45° | 9973.6 | 6726.3 | 580.6 | 409.7 | 396.7 | 409.7 | 422.7 | 448.8 | 487.9 | 529.9 | 532.8 |
| 47.5° | 10364.5 | 6665.5 | 460.4 | 380.8 | 372.1 | 389.4 | 401.0 | 418.4 | 440.1 | 437.2 | 437.2 |
| 50° | 10730.8 | 6517.8 | 370.6 | 341.7 | 347.5 | 367.7 | 373.5 | 379.3 | 380.8 | 353.3 | 350.4 |
| 52.5° | 11008.8 | 6287.6 | 296.8 | 299.7 | 322.9 | 343.1 | 337.3 | 328.6 | 314.2 | 280.9 | 275.1 |
| 55° | 11101.4 | 5844.6 | 233.1 | 247.6 | 286.7 | 312.7 | 291.0 | 272.2 | 244.7 | 217.2 | 211.4 |
| 57.5° | 10933.5 | 5272.7 | 189.7 | 192.6 | 241.8 | 263.5 | 238.9 | 217.2 | 186.8 | 163.6 | 159.3 |
| 60° | 10577.4 | 4637.2 | 156.4 | 144.8 | 186.8 | 205.6 | 189.7 | 167.9 | 140.4 | 123.1 | 121.6 |
| 62.5° | 9870.8 | 3959.6 | 128.9 | 112.9 | 141.9 | 157.8 | 147.7 | 131.7 | 108.6 | 97.0 | 95.6 |
| 65° | 8385.4 | 3167.7 | 104.2 | 91.2 | 110.0 | 123.1 | 114.4 | 102.8 | 85.4 | 76.7 | 75.3 |
| 67.5° | 5853.3 | 2141.2 | 85.4 | 75.3 | 86.9 | 97.0 | 89.8 | 84.0 | 68.0 | 66.6 | 68.0 |
| 70° | 2823.1 | 1032.3 | 70.9 | 60.8 | 68.0 | 75.3 | 72.4 | 68.0 | 65.1 | 75.3 | 86.9 |
| 72.5° | 809.3 | 346.0 | 56.5 | 50.7 | 55.0 | 59.4 | 62.3 | 60.8 | 70.9 | 91.2 | 105.7 |
| 73° | 622.5 | 279.4 | 53.6 | 47.8 | 52.1 | 57.9 | 60.8 | 59.4 | 72.4 | 92.7 | 105.7 |
| 75° | 266.4 | 134.6 | 40.5 | 39.1 | 43.4 | 50.7 | 53.6 | 53.6 | 72.4 | 94.1 | 101.3 |
| 77.5° | 120.2 | 72.4 | 26.1 | 30.4 | 37.6 | 40.5 | 44.9 | 44.9 | 57.9 | 72.4 | 72.4 |
| 80° | 68.0 | 39.1 | 20.3 | 23.2 | 27.5 | 27.5 | 27.5 | 24.6 | 26.1 | 29.0 | 31.9 |
| 82.5° | 43.4 | 26.1 | 15.9 | 18.8 | 17.4 | 14.5 | 11.6 | 11.6 | 10.1 | 11.6 | 14.5 |
| 85° | 24.6 | 14.5 | 14.5 | 11.6 | 7.2 | 5.8 | 7.2 | 5.8 | 1.4 | 0.0 | 1.4 |
| 87.5° | 14.5 | 8.7 | 4.3 | 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)