

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: P367497

Luminaire Tested: **PMM-SA2C-760-U-T4FT-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-13)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA2C-760-U-T4FT-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) 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: 9238 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

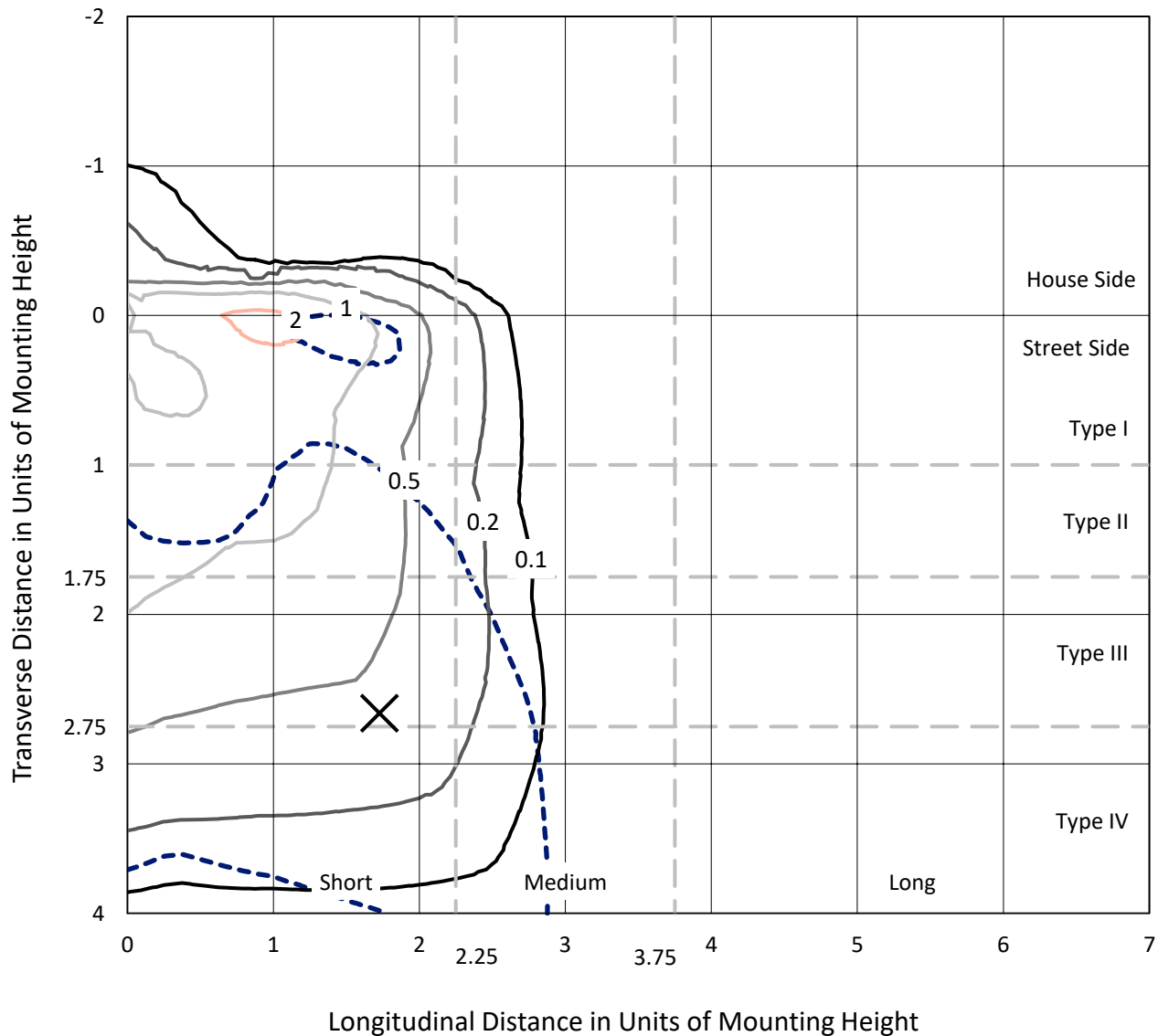
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

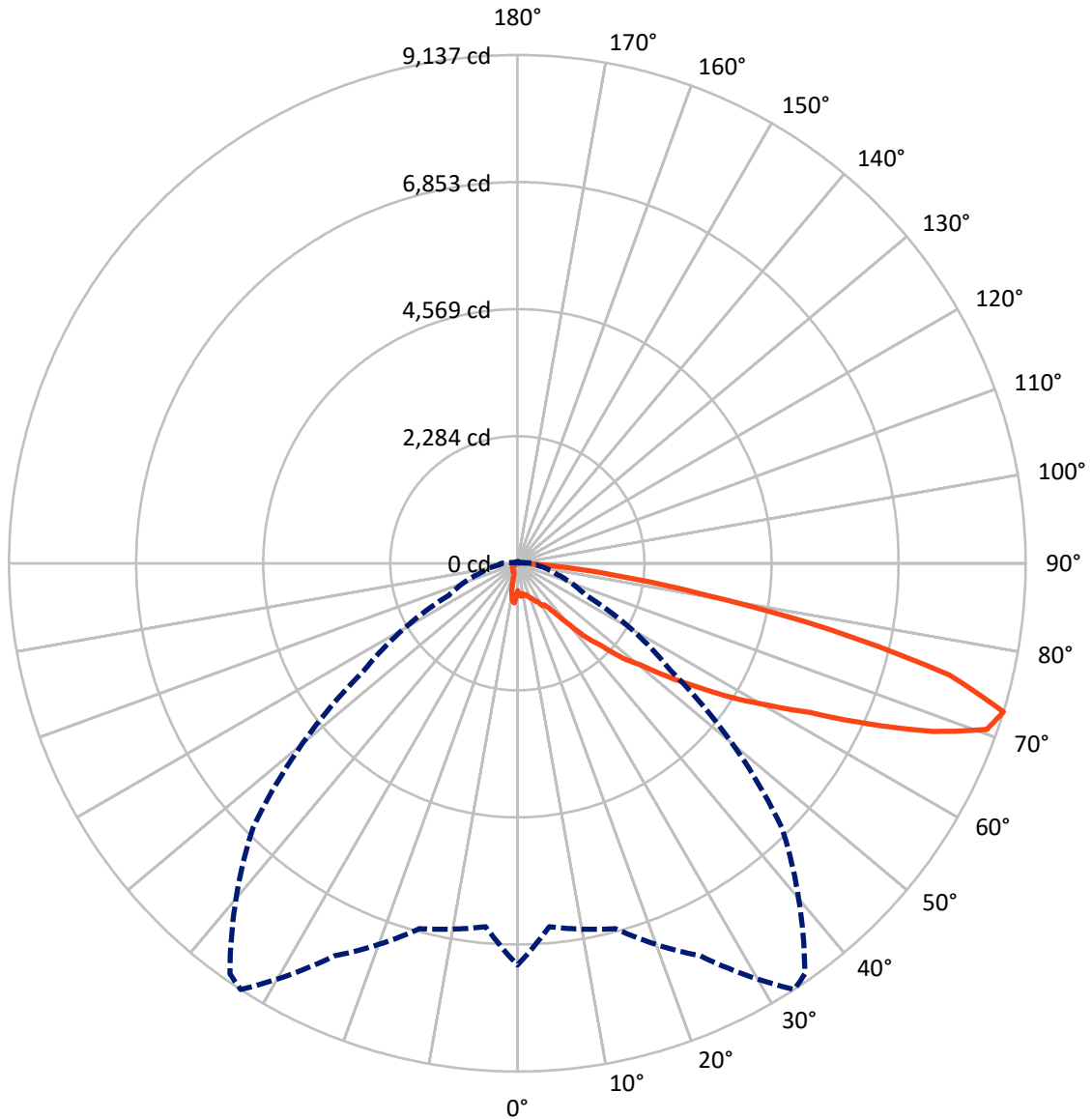
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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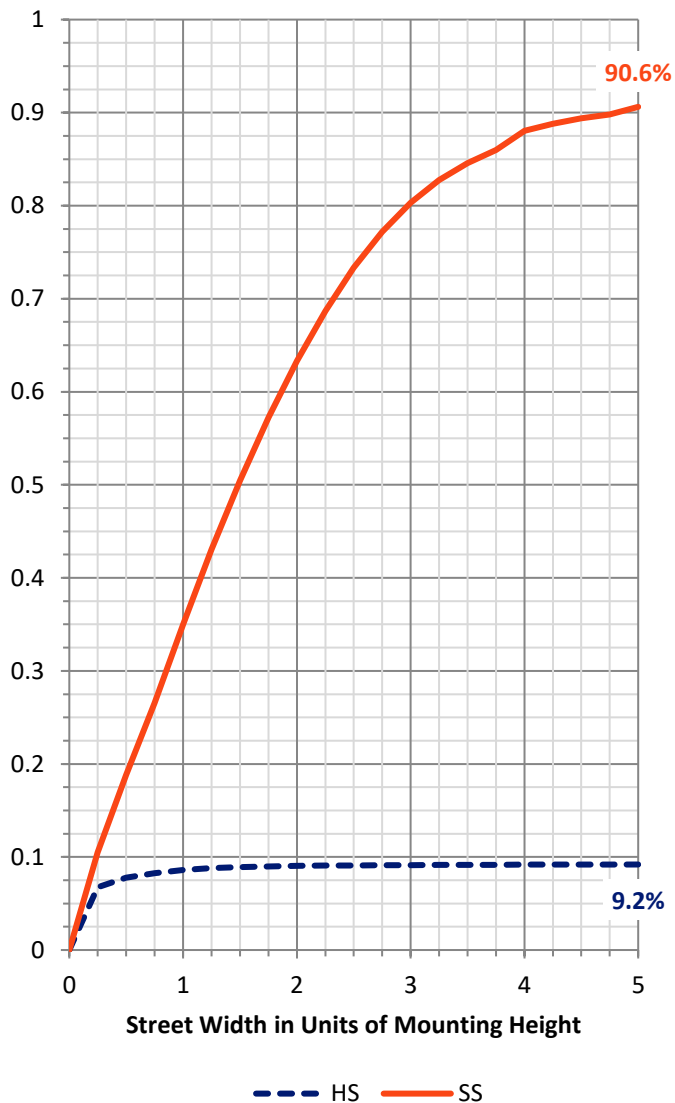
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 854.2 | 0.0 | 854.2 |
| | % Fixture | 9.2 | 0.0 | 9.2 |
| Street Side | Lumens | 8383.8 | 0.0 | 8383.8 |
| | % Fixture | 90.8 | 0.0 | 90.8 |
| Total | Lumens | 9238.0 | 0.0 | 9238.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 63.6 | 0.7 |
| 10°-20° | 189.5 | 2.1 |
| 20°-30° | 321.4 | 3.5 |
| 30°-40° | 588.2 | 6.4 |
| 40°-50° | 1241.4 | 13.4 |
| 50°-60° | 2076.9 | 22.5 |
| 60°-70° | 2780.1 | 30.1 |
| 70°-80° | 1816.0 | 19.7 |
| 80°-90° | 161.0 | 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° | 9238.0 | 100.0 |
| 0°-180° | 9238.0 | 100.0 |

Coefficient of Utilization



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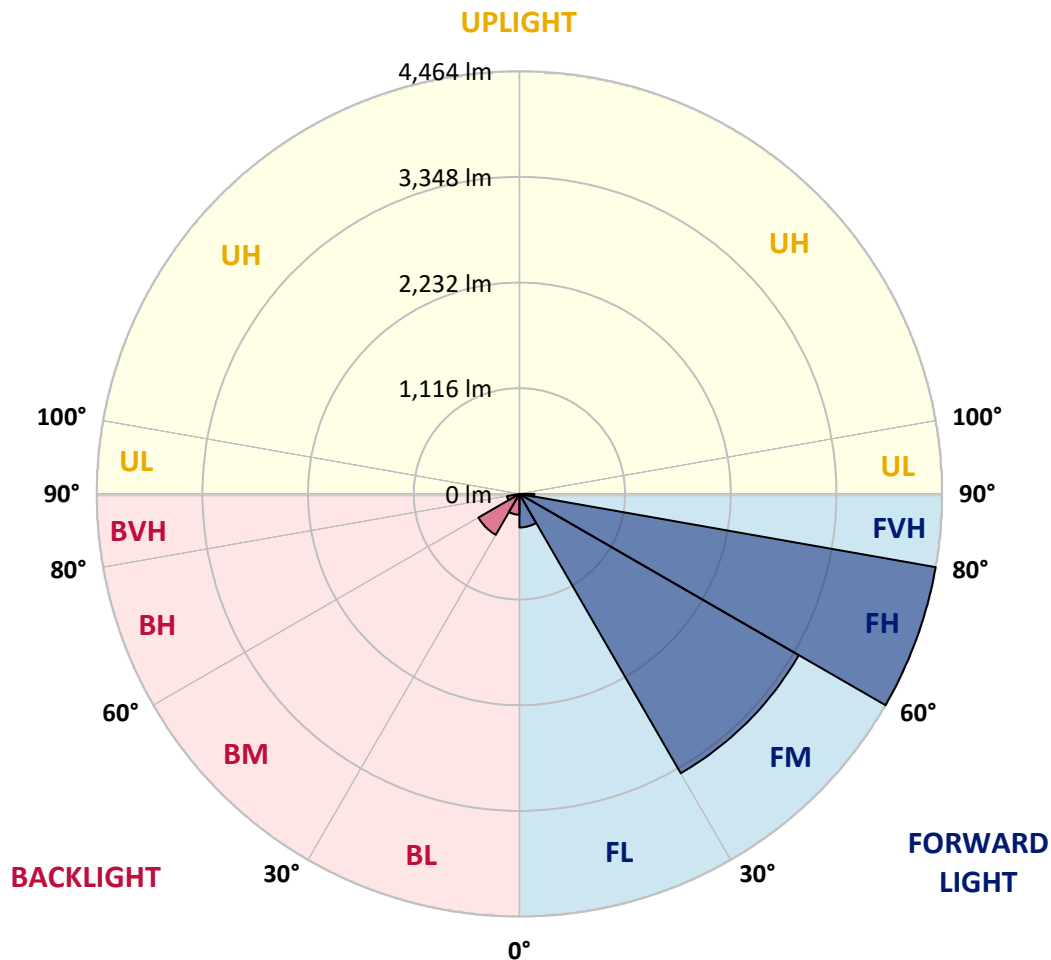
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 354.6 | 3.8 | | | |
| FM (30°-60°) | 3407.1 | 36.9 | | | |
| FH (60°-80°) | 4464.2 | 48.3 | | | G2/5000 |
| FVH (80°-90°) | 157.9 | 1.7 | | | G2/225 |
| BL (0°-30°) | 219.9 | 2.4 | B1/500 | | |
| BM (30°-60°) | 499.4 | 5.4 | B1/1000 | | |
| BH (60°-80°) | 131.8 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.1 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 491.4 | 491.4 | 491.4 | 491.4 | 491.4 | 491.4 | 491.4 | 491.4 | 491.4 | 491.4 | 491.4 |
| 2.5° | 585.7 | 563.2 | 530.3 | 532.4 | 538.0 | 542.6 | 555.0 | 549.8 | 540.1 | 539.6 | 585.7 |
| 5° | 620.6 | 595.5 | 593.4 | 596.5 | 595.0 | 603.2 | 592.9 | 626.2 | 654.5 | 688.3 | 742.7 |
| 7.5° | 603.7 | 591.9 | 577.0 | 592.4 | 591.9 | 587.8 | 594.4 | 662.1 | 730.4 | 773.4 | 863.2 |
| 10° | 555.0 | 541.6 | 552.9 | 558.0 | 554.4 | 572.4 | 617.0 | 672.4 | 754.0 | 844.2 | 887.8 |
| 12.5° | 541.1 | 549.3 | 553.4 | 553.4 | 587.8 | 597.0 | 665.2 | 717.5 | 814.5 | 885.8 | 1012.5 |
| 15° | 595.0 | 610.9 | 582.6 | 576.5 | 587.3 | 592.4 | 668.3 | 731.4 | 855.5 | 985.8 | 1092.0 |
| 17.5° | 680.6 | 679.6 | 636.0 | 611.9 | 628.8 | 641.1 | 683.2 | 757.0 | 829.9 | 1064.3 | 1218.1 |
| 20° | 739.6 | 740.6 | 662.1 | 611.9 | 667.8 | 675.0 | 721.6 | 780.6 | 838.1 | 1103.8 | 1300.7 |
| 22.5° | 815.5 | 788.3 | 701.6 | 652.9 | 690.9 | 697.5 | 748.8 | 795.5 | 880.1 | 1099.1 | 1406.4 |
| 25° | 877.6 | 860.1 | 750.9 | 717.0 | 750.9 | 741.6 | 788.3 | 858.6 | 925.3 | 1172.5 | 1468.4 |
| 27.5° | 974.0 | 944.2 | 785.8 | 791.9 | 789.9 | 796.5 | 807.3 | 915.0 | 1004.8 | 1176.1 | 1612.0 |
| 30° | 1063.7 | 1046.3 | 863.7 | 863.7 | 883.7 | 870.9 | 878.6 | 1008.9 | 1081.7 | 1259.2 | 1773.6 |
| 32.5° | 1156.6 | 1157.6 | 955.5 | 906.8 | 890.9 | 943.7 | 995.5 | 1054.5 | 1174.5 | 1401.7 | 2020.8 |
| 35° | 1402.3 | 1381.7 | 1131.4 | 1009.9 | 997.1 | 994.0 | 1077.1 | 1236.6 | 1339.2 | 1587.4 | 2353.7 |
| 37.5° | 1897.2 | 1825.9 | 1510.0 | 1243.8 | 1195.6 | 1179.1 | 1273.5 | 1437.1 | 1539.2 | 1860.3 | 2904.0 |
| 40° | 2405.0 | 2274.2 | 1923.4 | 1623.3 | 1466.9 | 1396.1 | 1505.9 | 1644.9 | 1826.4 | 2161.9 | 3413.3 |
| 42.5° | 2850.7 | 2689.1 | 2234.7 | 2032.6 | 1829.0 | 1798.2 | 1695.1 | 1921.3 | 2236.7 | 2600.9 | 3912.4 |
| 45° | 3285.1 | 2967.1 | 2511.7 | 2351.6 | 2104.4 | 2121.9 | 2087.0 | 2282.9 | 2663.0 | 3082.0 | 4355.0 |
| 47.5° | 3584.1 | 3298.4 | 2851.2 | 2643.5 | 2544.5 | 2442.4 | 2719.4 | 2923.0 | 3042.5 | 3387.7 | 4737.6 |
| 50° | 3906.2 | 3616.9 | 3143.0 | 2997.9 | 2867.6 | 2970.7 | 3330.2 | 3357.4 | 3347.7 | 3672.8 | 4998.2 |
| 52.5° | 4322.2 | 3981.1 | 3477.9 | 3313.8 | 3387.7 | 3490.3 | 3905.2 | 3910.3 | 3619.0 | 3912.9 | 5185.9 |
| 55° | 4706.8 | 4328.8 | 3924.2 | 3769.3 | 3923.7 | 4010.3 | 4470.4 | 4301.7 | 3777.0 | 4076.0 | 5278.2 |
| 57.5° | 5249.0 | 4811.5 | 4517.6 | 4244.7 | 4557.6 | 4474.5 | 4967.4 | 4716.6 | 3954.4 | 4184.2 | 5244.4 |
| 60° | 5934.2 | 5419.3 | 5124.9 | 4836.1 | 5171.5 | 5227.9 | 5452.6 | 4923.8 | 4023.2 | 4219.6 | 5040.7 |
| 62.5° | 6631.2 | 6113.2 | 5726.0 | 5530.0 | 5910.6 | 6096.3 | 5901.9 | 5026.9 | 3940.6 | 4150.4 | 4579.6 |
| 65° | 7496.0 | 6832.8 | 6380.4 | 6265.5 | 6970.8 | 7243.6 | 6433.3 | 5052.0 | 3781.1 | 3769.3 | 3682.1 |
| 67.5° | 8088.4 | 7442.6 | 7027.7 | 7220.0 | 8072.0 | 8094.0 | 6910.2 | 5059.7 | 3244.1 | 2951.2 | 2416.8 |
| 70° | 8228.9 | 7537.5 | 7351.9 | 7918.1 | 8950.5 | 8673.1 | 7064.1 | 4669.9 | 2406.0 | 1751.5 | 1104.8 |
| 72.5° | 7223.6 | 6557.9 | 6799.5 | 7786.3 | 9137.2 | 9010.0 | 6724.1 | 3369.2 | 1354.6 | 700.6 | 339.0 |
| 75° | 4430.9 | 4028.3 | 5100.8 | 6601.5 | 8020.7 | 7938.6 | 5245.9 | 1740.8 | 545.7 | 280.0 | 126.7 |
| 77.5° | 1927.0 | 1789.5 | 2661.9 | 4380.1 | 5763.4 | 5690.1 | 3073.8 | 641.1 | 282.1 | 197.0 | 64.1 |
| 80° | 637.5 | 618.6 | 1008.4 | 2074.2 | 3375.9 | 3311.3 | 1295.1 | 266.7 | 201.1 | 158.0 | 35.9 |
| 82.5° | 151.3 | 150.3 | 351.8 | 954.5 | 1719.7 | 1665.9 | 397.5 | 147.2 | 145.7 | 124.6 | 19.0 |
| 85° | 38.0 | 39.0 | 97.5 | 390.3 | 698.6 | 616.0 | 103.6 | 73.3 | 102.6 | 84.6 | 9.7 |
| 87.5° | 0.0 | 0.0 | 25.1 | 55.9 | 105.7 | 66.2 | 11.3 | 19.5 | 28.7 | 30.3 | 5.1 |
| 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° | 491.4 | 491.4 | 491.4 | 491.4 | 491.4 | 491.4 | 491.4 | 491.4 | 491.4 | 491.4 | 491.4 |
| 2.5° | 596.0 | 590.3 | 544.2 | 555.5 | 572.9 | 571.4 | 582.6 | 573.9 | 566.2 | 604.2 | 600.6 |
| 5° | 758.1 | 727.3 | 712.9 | 732.9 | 722.2 | 697.0 | 718.1 | 714.5 | 708.3 | 721.1 | 730.9 |
| 7.5° | 879.6 | 851.4 | 838.6 | 796.5 | 735.5 | 687.3 | 695.0 | 677.0 | 660.1 | 680.1 | 700.6 |
| 10° | 919.6 | 904.2 | 902.7 | 820.6 | 763.2 | 693.4 | 610.9 | 539.6 | 520.6 | 495.5 | 506.7 |
| 12.5° | 1028.4 | 1037.6 | 979.6 | 883.7 | 772.9 | 639.1 | 492.4 | 391.3 | 350.3 | 323.6 | 325.2 |
| 15° | 1117.6 | 1149.9 | 1065.8 | 893.5 | 680.1 | 487.3 | 327.7 | 237.0 | 211.3 | 204.6 | 202.6 |
| 17.5° | 1250.4 | 1281.7 | 1092.5 | 824.2 | 548.3 | 330.3 | 210.8 | 184.6 | 186.2 | 190.8 | 189.8 |
| 20° | 1348.9 | 1344.3 | 1069.4 | 701.6 | 404.2 | 216.4 | 176.4 | 172.8 | 181.1 | 194.4 | 191.3 |
| 22.5° | 1443.8 | 1412.0 | 1055.0 | 588.3 | 261.6 | 173.9 | 170.3 | 169.8 | 177.5 | 190.3 | 193.9 |
| 25° | 1511.5 | 1516.6 | 1030.9 | 460.6 | 190.3 | 161.6 | 164.6 | 169.3 | 176.9 | 190.8 | 188.7 |
| 27.5° | 1705.4 | 1561.8 | 930.4 | 334.4 | 160.5 | 154.9 | 162.6 | 171.8 | 174.4 | 191.8 | 192.3 |
| 30° | 1831.0 | 1732.0 | 864.7 | 225.2 | 148.2 | 143.1 | 158.5 | 170.8 | 173.9 | 196.4 | 198.0 |
| 32.5° | 2050.0 | 1805.4 | 788.8 | 167.2 | 138.0 | 139.5 | 149.3 | 165.7 | 180.0 | 204.1 | 205.2 |
| 35° | 2322.4 | 2040.8 | 651.4 | 150.3 | 134.4 | 131.8 | 136.4 | 155.4 | 179.0 | 205.2 | 210.3 |
| 37.5° | 2840.9 | 2181.9 | 516.5 | 145.7 | 134.4 | 129.8 | 134.4 | 145.7 | 175.9 | 215.4 | 226.2 |
| 40° | 3188.2 | 2469.1 | 372.4 | 144.6 | 131.8 | 127.7 | 129.2 | 140.5 | 167.2 | 209.3 | 225.2 |
| 42.5° | 3615.9 | 2590.1 | 274.4 | 142.1 | 129.2 | 123.1 | 124.1 | 138.5 | 158.5 | 196.4 | 208.2 |
| 45° | 3966.2 | 2678.3 | 215.9 | 141.0 | 123.1 | 121.0 | 123.1 | 136.9 | 150.3 | 168.7 | 179.5 |
| 47.5° | 4232.4 | 2780.9 | 173.4 | 134.4 | 121.6 | 121.0 | 118.5 | 128.2 | 136.4 | 141.0 | 148.2 |
| 50° | 4427.3 | 2757.8 | 143.6 | 124.1 | 116.4 | 119.5 | 114.9 | 116.4 | 118.5 | 115.9 | 124.1 |
| 52.5° | 4546.8 | 2674.8 | 119.5 | 111.8 | 110.3 | 112.8 | 107.2 | 102.6 | 99.0 | 96.9 | 102.1 |
| 55° | 4590.4 | 2508.1 | 101.6 | 95.9 | 99.5 | 100.5 | 95.9 | 87.7 | 81.6 | 78.5 | 82.6 |
| 57.5° | 4507.8 | 2254.2 | 88.2 | 79.5 | 87.7 | 87.7 | 81.6 | 72.8 | 65.7 | 60.5 | 64.6 |
| 60° | 4298.6 | 1973.6 | 78.5 | 66.2 | 74.9 | 75.4 | 68.2 | 59.0 | 53.3 | 48.2 | 50.8 |
| 62.5° | 3908.8 | 1667.9 | 68.7 | 57.4 | 64.6 | 65.1 | 56.4 | 47.7 | 43.6 | 38.0 | 40.0 |
| 65° | 3129.2 | 1275.6 | 58.5 | 50.8 | 55.9 | 54.4 | 46.7 | 40.5 | 35.4 | 30.3 | 31.3 |
| 67.5° | 2031.1 | 787.3 | 50.8 | 46.2 | 47.2 | 45.6 | 39.5 | 35.4 | 29.7 | 25.6 | 26.2 |
| 70° | 909.4 | 339.0 | 44.6 | 41.5 | 41.0 | 38.5 | 33.3 | 32.8 | 29.2 | 25.6 | 25.6 |
| 72.5° | 280.6 | 127.7 | 38.5 | 37.4 | 35.4 | 32.3 | 29.2 | 31.3 | 28.7 | 24.6 | 24.1 |
| 75° | 110.8 | 58.5 | 31.8 | 31.8 | 30.8 | 26.7 | 26.2 | 28.2 | 26.7 | 22.6 | 21.5 |
| 77.5° | 58.0 | 36.9 | 26.2 | 27.2 | 26.7 | 20.5 | 23.6 | 25.6 | 24.6 | 19.0 | 15.9 |
| 80° | 34.4 | 22.6 | 19.5 | 22.1 | 21.5 | 14.4 | 18.0 | 16.4 | 11.8 | 5.6 | 1.5 |
| 82.5° | 19.0 | 10.3 | 8.7 | 12.8 | 12.8 | 5.1 | 9.2 | 8.2 | 4.6 | 0.0 | 0.0 |
| 85° | 9.2 | 7.2 | 6.7 | 7.2 | 5.1 | 1.5 | 4.6 | 4.6 | 2.6 | 0.0 | 0.0 |
| 87.5° | 4.6 | 4.1 | 3.1 | 2.6 | 2.1 | 0.0 | 1.5 | 2.1 | 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)