

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: P367078

Luminaire Tested: **PMM-SA1D-750-U-T3**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-10)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA1D-750-U-T3
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6848 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

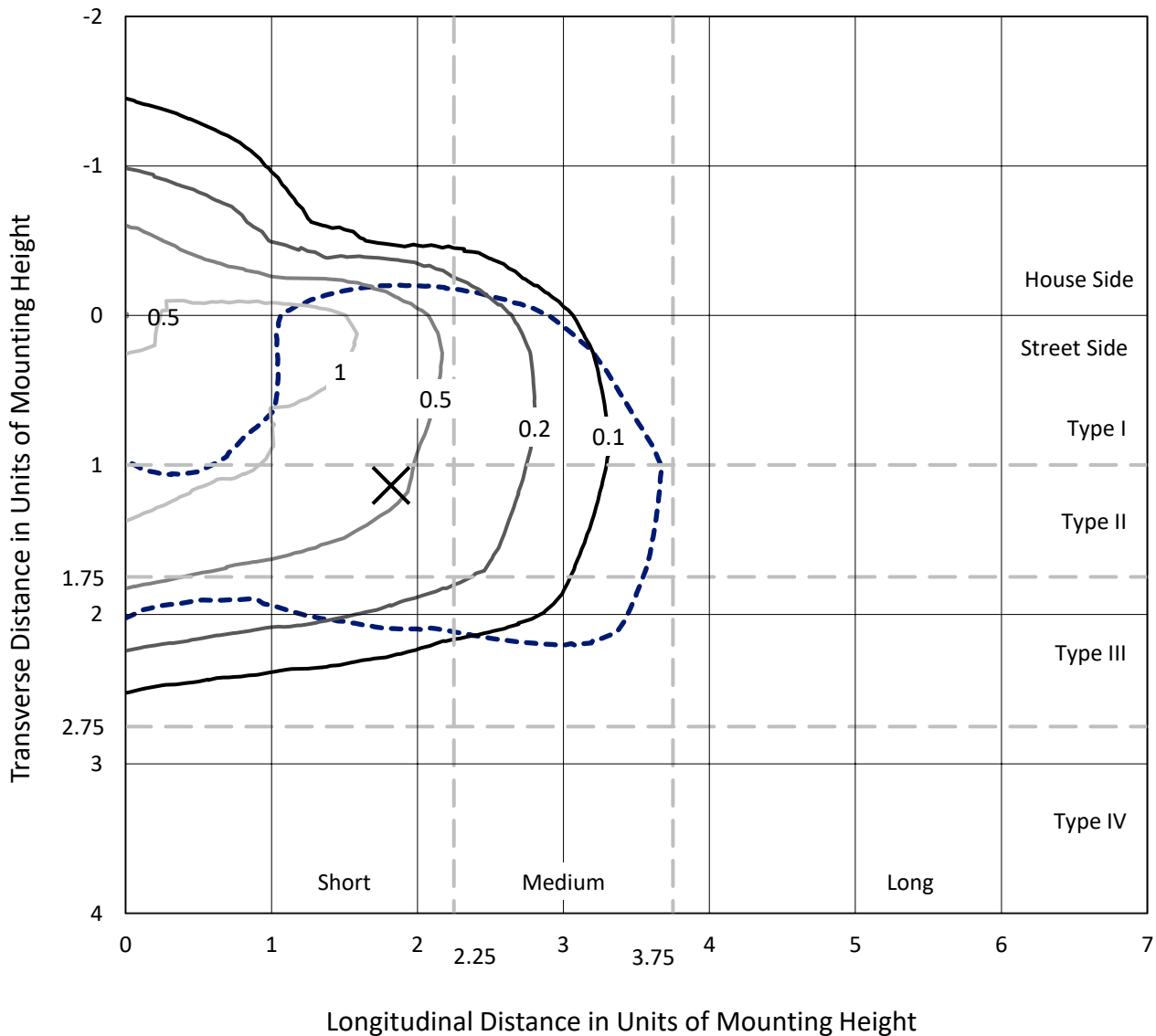


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

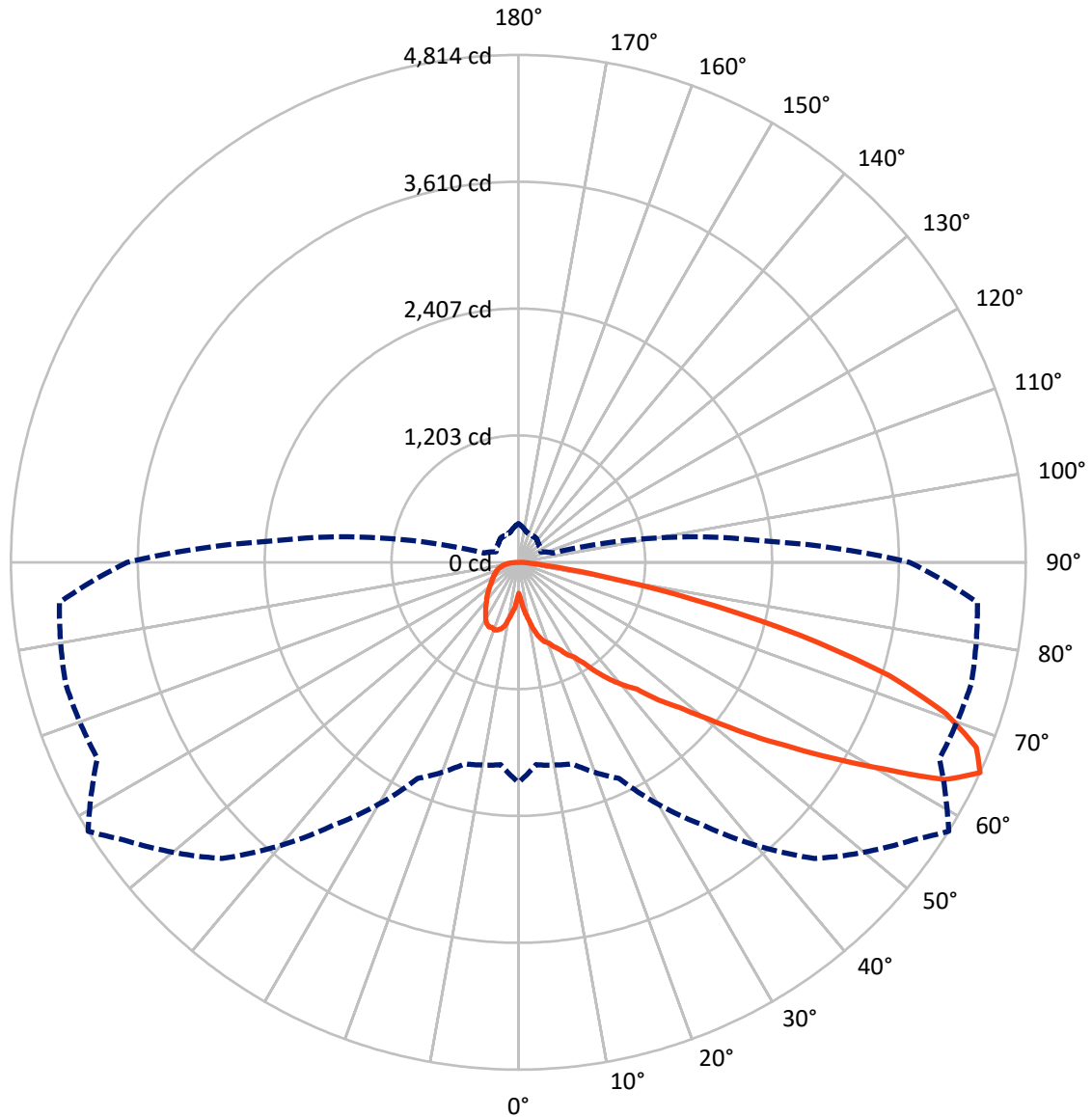


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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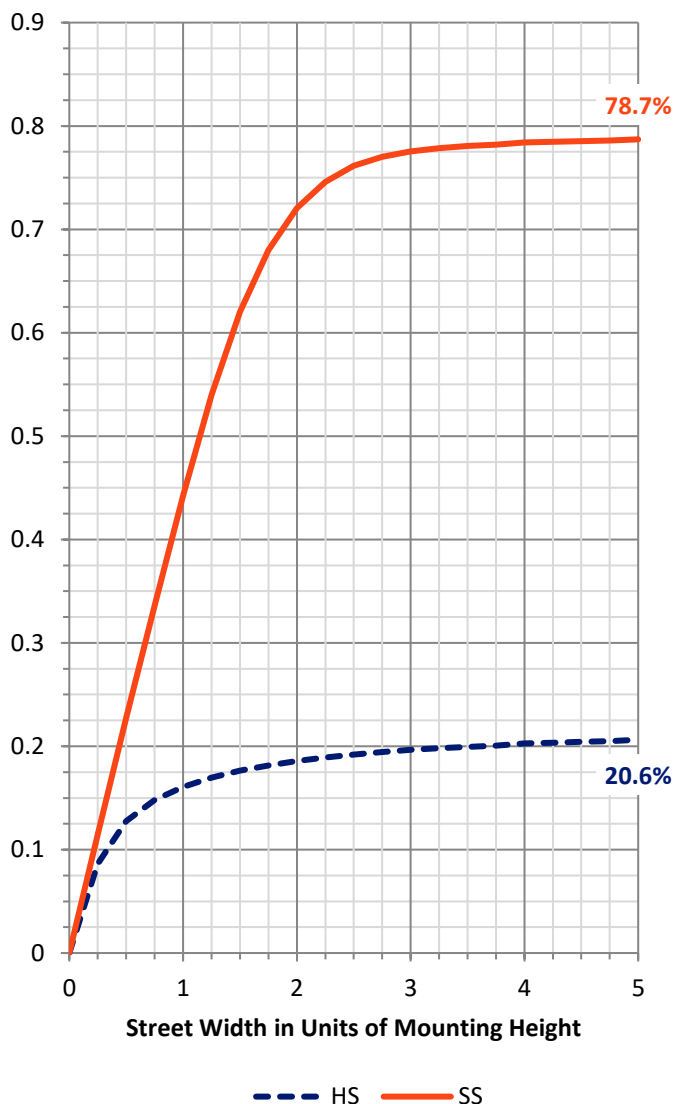
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1442.4 | 0.0 | 1442.4 |
| | % Fixture | 21.1 | 0.0 | 21.1 |
| Street Side | Lumens | 5405.6 | 0.0 | 5405.6 |
| | % Fixture | 78.9 | 0.0 | 78.9 |
| Total | Lumens | 6848.0 | 0.0 | 6848.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.8 | 0.7 |
| 10°-20° | 195.4 | 2.9 |
| 20°-30° | 375.0 | 5.5 |
| 30°-40° | 619.1 | 9.0 |
| 40°-50° | 1029.1 | 15.0 |
| 50°-60° | 1699.5 | 24.8 |
| 60°-70° | 1906.5 | 27.8 |
| 70°-80° | 866.8 | 12.7 |
| 80°-90° | 111.8 | 1.6 |
| 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° | 6848.0 | 100.0 |
| 0°-180° | 6848.0 | 100.0 |

Coefficient of Utilization



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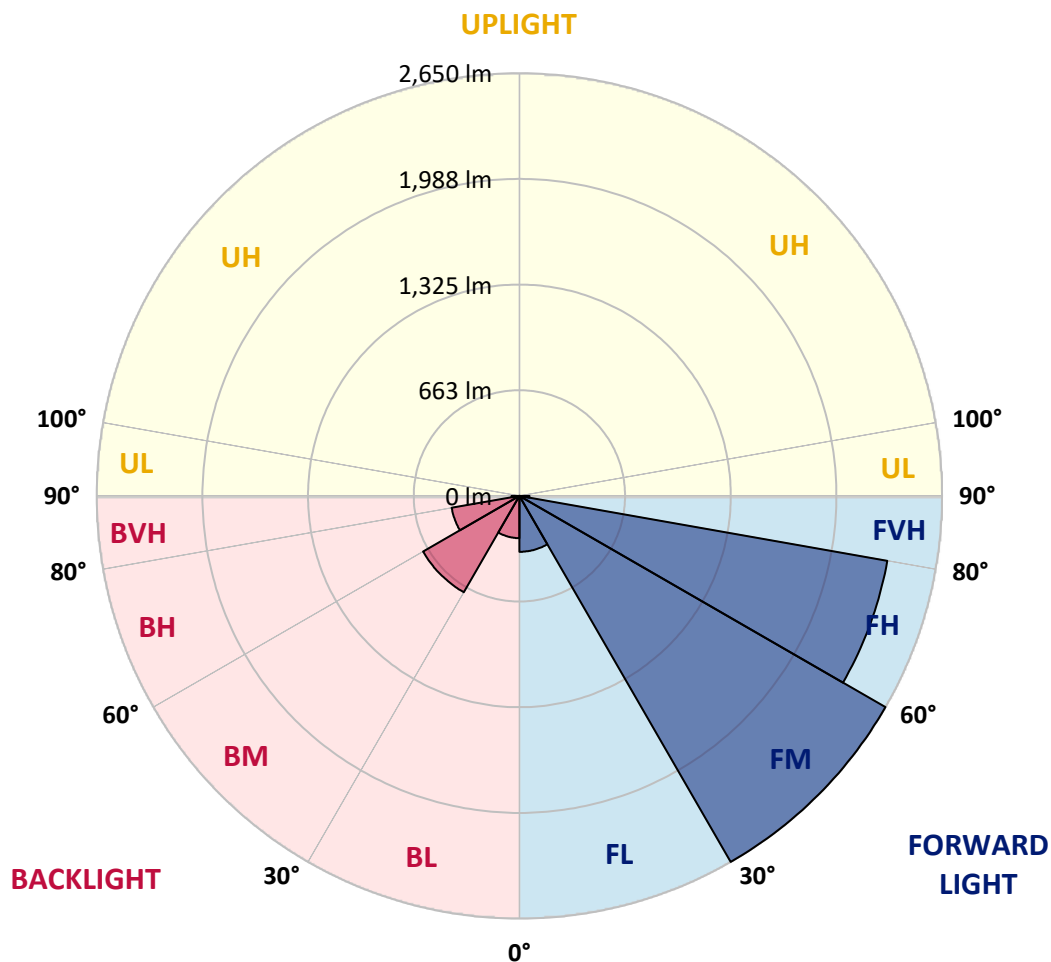
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 350.4 | 5.1 | | | |
| FM (30°-60°) | 2650.1 | 38.7 | | | |
| FH (60°-80°) | 2342.2 | 34.2 | | | G2/5000 |
| FVH (80°-90°) | 63.0 | 0.9 | | | G1/100 |
| BL (0°-30°) | 264.8 | 3.9 | B1/500 | | |
| BM (30°-60°) | 697.6 | 10.2 | B1/1000 | | |
| BH (60°-80°) | 431.2 | 6.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 48.8 | 0.7 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 294.0 | 294.0 | 294.0 | 294.0 | 294.0 | 294.0 | 294.0 | 294.0 | 294.0 | 294.0 | 294.0 |
| 2.5° | 351.1 | 340.5 | 322.8 | 327.1 | 337.4 | 343.1 | 339.7 | 335.1 | 329.1 | 328.0 | 354.2 |
| 5° | 454.6 | 434.3 | 426.1 | 422.6 | 410.1 | 402.7 | 415.5 | 413.8 | 420.6 | 433.2 | 458.9 |
| 7.5° | 530.2 | 515.9 | 502.2 | 500.8 | 476.5 | 468.0 | 485.1 | 494.2 | 506.5 | 506.8 | 541.6 |
| 10° | 570.6 | 558.4 | 558.1 | 545.3 | 543.3 | 559.5 | 559.8 | 566.7 | 568.1 | 582.6 | 575.8 |
| 12.5° | 614.6 | 613.7 | 629.4 | 629.1 | 647.4 | 674.2 | 660.8 | 660.8 | 664.8 | 647.1 | 668.8 |
| 15° | 719.2 | 728.4 | 699.0 | 703.8 | 703.8 | 730.1 | 729.2 | 734.3 | 746.6 | 742.0 | 732.3 |
| 17.5° | 828.2 | 833.9 | 801.4 | 771.1 | 773.4 | 767.7 | 788.2 | 790.2 | 778.5 | 831.6 | 819.9 |
| 20° | 898.3 | 920.6 | 852.1 | 814.2 | 821.6 | 828.2 | 829.0 | 816.8 | 810.8 | 892.3 | 876.4 |
| 22.5° | 985.0 | 966.2 | 903.5 | 861.5 | 872.7 | 863.8 | 862.1 | 871.5 | 879.8 | 910.6 | 936.5 |
| 25° | 1042.9 | 1041.5 | 966.2 | 920.3 | 908.0 | 905.5 | 922.8 | 919.1 | 938.8 | 994.7 | 978.5 |
| 27.5° | 1127.0 | 1153.3 | 1019.8 | 1031.2 | 977.3 | 920.6 | 976.5 | 993.3 | 1028.6 | 1019.5 | 1055.7 |
| 30° | 1290.2 | 1270.5 | 1131.0 | 1127.9 | 1066.9 | 1019.2 | 1058.0 | 1043.8 | 1107.4 | 1105.4 | 1132.2 |
| 32.5° | 1423.3 | 1437.0 | 1261.6 | 1228.8 | 1183.5 | 1126.2 | 1100.5 | 1140.2 | 1174.4 | 1230.6 | 1245.7 |
| 35° | 1564.2 | 1561.1 | 1395.4 | 1329.2 | 1254.2 | 1230.6 | 1262.2 | 1278.8 | 1351.5 | 1403.1 | 1367.2 |
| 37.5° | 1783.2 | 1758.4 | 1568.8 | 1443.6 | 1387.4 | 1378.9 | 1433.0 | 1409.1 | 1487.8 | 1500.1 | 1520.3 |
| 40° | 1986.9 | 1912.1 | 1727.3 | 1583.9 | 1494.6 | 1526.6 | 1528.3 | 1531.4 | 1573.6 | 1607.0 | 1707.1 |
| 42.5° | 2180.5 | 2128.0 | 1888.5 | 1780.7 | 1649.2 | 1618.1 | 1637.5 | 1644.1 | 1750.7 | 1818.9 | 1957.5 |
| 45° | 2445.1 | 2304.5 | 2120.0 | 2009.4 | 1862.2 | 1822.6 | 1808.9 | 1865.4 | 1968.3 | 2123.5 | 2242.4 |
| 47.5° | 2669.0 | 2542.1 | 2366.1 | 2220.4 | 2055.9 | 2169.1 | 2091.5 | 2059.9 | 2198.2 | 2390.4 | 2579.7 |
| 50° | 2854.7 | 2714.9 | 2542.4 | 2458.3 | 2432.0 | 2533.0 | 2331.6 | 2335.3 | 2462.0 | 2733.2 | 2950.2 |
| 52.5° | 2998.4 | 2849.2 | 2696.4 | 2653.6 | 2800.2 | 2858.4 | 2712.9 | 2691.0 | 2783.4 | 3103.9 | 3364.6 |
| 55° | 3132.7 | 2974.4 | 2856.4 | 2943.6 | 3190.6 | 3197.2 | 3186.9 | 3065.1 | 3176.3 | 3501.2 | 3793.5 |
| 57.5° | 3167.2 | 2996.7 | 2918.3 | 3043.5 | 3377.4 | 3637.2 | 3739.3 | 3500.3 | 3613.5 | 3862.5 | 4160.8 |
| 60° | 2989.6 | 2843.5 | 2812.2 | 2982.1 | 3478.4 | 3858.2 | 4124.9 | 3982.0 | 3939.5 | 4152.5 | 4418.0 |
| 62.5° | 2625.7 | 2456.3 | 2481.6 | 2717.8 | 3372.0 | 3945.8 | 4429.4 | 4540.9 | 4283.7 | 4383.2 | 4530.4 |
| 65° | 2089.8 | 1928.1 | 1979.4 | 2263.5 | 3038.0 | 3974.9 | 4585.1 | 4813.9 | 4408.0 | 4448.5 | 4371.3 |
| 67.5° | 1473.8 | 1326.9 | 1391.7 | 1759.0 | 2527.3 | 3602.4 | 4612.0 | 4686.7 | 4275.7 | 4262.3 | 3936.6 |
| 70° | 835.0 | 742.9 | 813.1 | 1119.3 | 1783.8 | 2869.8 | 4401.8 | 4303.4 | 4038.5 | 3848.5 | 3293.8 |
| 72.5° | 383.0 | 351.3 | 385.0 | 569.8 | 1026.9 | 1909.6 | 3593.6 | 3682.8 | 3479.8 | 3242.2 | 2505.9 |
| 75° | 203.6 | 192.5 | 206.8 | 284.6 | 480.5 | 1038.9 | 2553.2 | 2754.0 | 2645.9 | 2459.1 | 1634.7 |
| 77.5° | 151.4 | 142.9 | 149.7 | 184.5 | 256.7 | 406.4 | 1450.7 | 1704.0 | 1745.0 | 1573.1 | 907.7 |
| 80° | 116.1 | 109.2 | 116.1 | 139.5 | 177.7 | 193.1 | 620.3 | 794.2 | 904.6 | 730.9 | 360.8 |
| 82.5° | 86.1 | 81.6 | 92.1 | 104.7 | 124.9 | 120.6 | 220.2 | 274.1 | 353.3 | 241.5 | 140.6 |
| 85° | 68.4 | 62.7 | 66.7 | 71.0 | 79.9 | 66.2 | 100.7 | 112.6 | 119.2 | 99.8 | 51.9 |
| 87.5° | 26.8 | 24.8 | 48.5 | 38.2 | 32.5 | 20.0 | 30.2 | 34.2 | 35.1 | 33.7 | 15.1 |
| 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° | 294.0 | 294.0 | 294.0 | 294.0 | 294.0 | 294.0 | 294.0 | 294.0 | 294.0 | 294.0 | 294.0 |
| 2.5° | 357.0 | 354.2 | 337.4 | 342.8 | 351.6 | 353.3 | 357.0 | 346.8 | 341.6 | 360.5 | 361.3 |
| 5° | 461.1 | 445.7 | 437.8 | 438.6 | 432.9 | 424.1 | 437.5 | 446.3 | 449.7 | 463.7 | 468.8 |
| 7.5° | 541.8 | 523.3 | 509.9 | 494.5 | 472.8 | 458.9 | 482.2 | 499.4 | 508.5 | 537.6 | 549.0 |
| 10° | 577.8 | 562.9 | 560.1 | 540.7 | 540.1 | 539.8 | 538.7 | 532.7 | 552.4 | 549.5 | 557.5 |
| 12.5° | 651.9 | 648.8 | 621.7 | 614.0 | 614.9 | 614.0 | 590.0 | 588.9 | 589.2 | 615.4 | 606.0 |
| 15° | 720.9 | 721.5 | 696.7 | 668.8 | 643.7 | 636.0 | 626.5 | 622.3 | 628.5 | 643.4 | 634.2 |
| 17.5° | 806.2 | 809.1 | 738.0 | 693.8 | 660.8 | 659.9 | 637.4 | 610.9 | 649.1 | 658.2 | 648.2 |
| 20° | 861.2 | 849.3 | 762.0 | 687.9 | 678.4 | 652.8 | 624.8 | 588.3 | 621.4 | 643.7 | 649.9 |
| 22.5° | 913.4 | 892.6 | 784.2 | 698.4 | 653.4 | 622.8 | 595.7 | 572.1 | 582.6 | 607.4 | 603.4 |
| 25° | 948.8 | 943.1 | 815.0 | 723.8 | 652.5 | 584.6 | 548.1 | 533.0 | 538.4 | 576.9 | 573.2 |
| 27.5° | 1033.2 | 971.6 | 809.6 | 730.3 | 625.1 | 532.4 | 514.2 | 497.9 | 492.5 | 534.1 | 545.6 |
| 30° | 1089.7 | 1064.3 | 845.8 | 720.1 | 590.6 | 489.7 | 462.8 | 459.4 | 461.1 | 508.5 | 511.6 |
| 32.5° | 1185.5 | 1119.6 | 905.2 | 680.7 | 540.4 | 458.0 | 427.2 | 428.6 | 436.3 | 470.8 | 478.0 |
| 35° | 1285.3 | 1246.0 | 913.2 | 652.5 | 499.6 | 424.3 | 411.8 | 401.8 | 406.1 | 436.3 | 437.8 |
| 37.5° | 1470.7 | 1334.6 | 962.2 | 608.9 | 469.7 | 411.5 | 387.6 | 378.7 | 381.0 | 398.1 | 410.4 |
| 40° | 1633.8 | 1512.9 | 939.4 | 566.7 | 432.6 | 394.4 | 364.5 | 357.9 | 351.1 | 367.9 | 375.6 |
| 42.5° | 1895.3 | 1640.1 | 931.7 | 520.2 | 415.2 | 371.3 | 350.8 | 333.4 | 326.8 | 341.1 | 355.1 |
| 45° | 2156.8 | 1775.0 | 889.8 | 473.1 | 390.7 | 369.6 | 330.8 | 314.3 | 316.0 | 328.8 | 343.1 |
| 47.5° | 2448.3 | 1956.1 | 818.8 | 427.5 | 363.9 | 361.3 | 310.8 | 303.7 | 308.9 | 323.1 | 337.4 |
| 50° | 2792.8 | 2148.3 | 760.0 | 386.4 | 344.8 | 336.5 | 308.3 | 299.7 | 304.6 | 321.4 | 335.4 |
| 52.5° | 3169.5 | 2359.0 | 717.2 | 348.5 | 323.1 | 316.8 | 311.7 | 303.4 | 309.1 | 323.7 | 338.2 |
| 55° | 3543.9 | 2551.5 | 688.1 | 322.5 | 304.6 | 308.6 | 318.8 | 312.8 | 315.7 | 326.5 | 341.1 |
| 57.5° | 3821.7 | 2653.0 | 629.7 | 294.9 | 289.5 | 303.7 | 319.7 | 309.7 | 311.4 | 326.5 | 342.2 |
| 60° | 3983.1 | 2672.4 | 533.6 | 272.3 | 277.5 | 294.0 | 310.8 | 298.0 | 296.9 | 321.7 | 341.4 |
| 62.5° | 3965.4 | 2559.8 | 423.2 | 251.8 | 263.8 | 279.5 | 297.4 | 285.2 | 288.3 | 322.3 | 343.1 |
| 65° | 3712.2 | 2329.6 | 336.5 | 234.4 | 247.3 | 263.5 | 286.3 | 281.5 | 296.6 | 345.1 | 367.6 |
| 67.5° | 3267.3 | 1993.4 | 270.4 | 218.2 | 231.9 | 252.7 | 294.0 | 306.9 | 313.4 | 368.5 | 391.6 |
| 70° | 2647.9 | 1548.8 | 225.3 | 203.9 | 219.6 | 257.8 | 316.3 | 313.7 | 308.3 | 357.3 | 375.6 |
| 72.5° | 1913.0 | 1061.7 | 198.2 | 189.9 | 204.5 | 242.4 | 316.8 | 303.1 | 296.3 | 326.2 | 339.4 |
| 75° | 1196.9 | 633.4 | 173.1 | 172.2 | 181.4 | 217.3 | 302.6 | 290.3 | 271.8 | 286.6 | 303.7 |
| 77.5° | 683.6 | 324.3 | 145.7 | 153.4 | 158.8 | 188.5 | 270.9 | 259.8 | 243.3 | 249.5 | 266.4 |
| 80° | 260.9 | 156.8 | 122.9 | 136.3 | 134.9 | 159.7 | 229.6 | 227.0 | 208.2 | 210.2 | 220.4 |
| 82.5° | 122.9 | 87.8 | 102.1 | 117.2 | 109.5 | 127.2 | 186.5 | 185.7 | 169.1 | 153.1 | 161.4 |
| 85° | 45.6 | 46.8 | 74.7 | 89.3 | 76.1 | 82.1 | 134.9 | 131.2 | 115.2 | 97.2 | 107.5 |
| 87.5° | 10.3 | 16.8 | 36.8 | 46.5 | 26.5 | 25.4 | 54.5 | 47.3 | 45.6 | 27.1 | 28.5 |
| 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)