

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: P367136

Luminaire Tested: **PMM-SA2A-727-U-SL4**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-20)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA2A-727-U-SL4
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6475 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

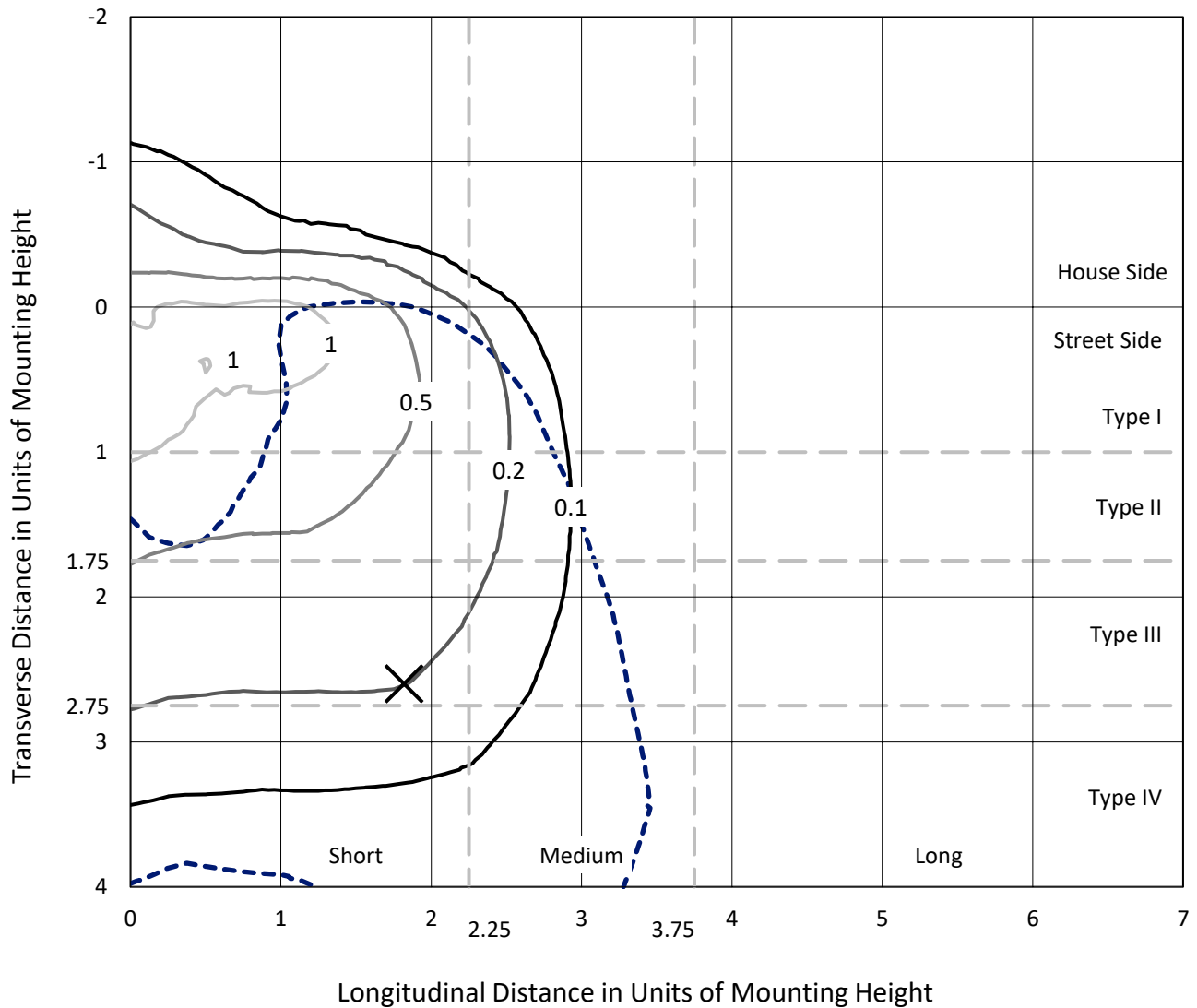
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

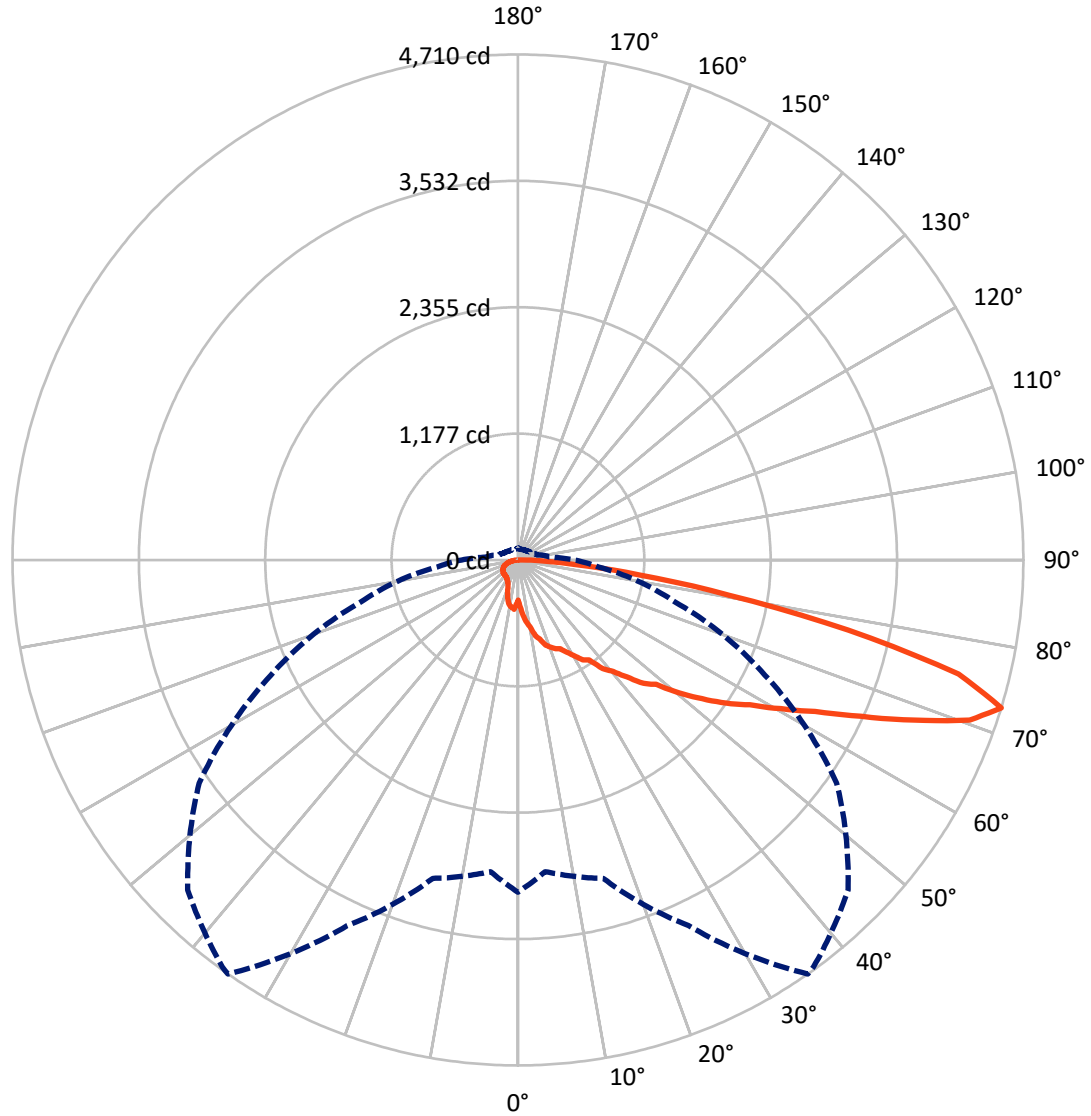
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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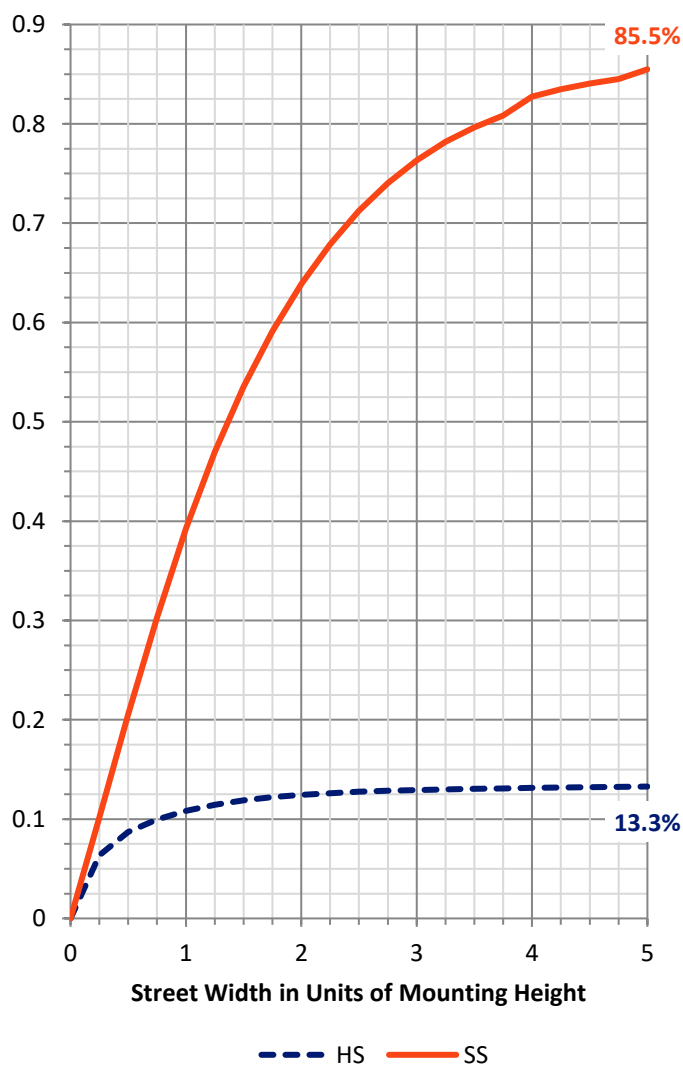
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 868.9 | 0.0 | 868.9 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 5606.1 | 0.0 | 5606.1 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 6475.0 | 0.0 | 6475.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 49.7 | 0.8 |
| 10°-20° | 175.2 | 2.7 |
| 20°-30° | 304.4 | 4.7 |
| 30°-40° | 508.7 | 7.9 |
| 40°-50° | 883.0 | 13.6 |
| 50°-60° | 1334.8 | 20.6 |
| 60°-70° | 1729.3 | 26.7 |
| 70°-80° | 1276.0 | 19.7 |
| 80°-90° | 213.9 | 3.3 |
| 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° | 6475.0 | 100.0 |
| 0°-180° | 6475.0 | 100.0 |

Coefficient of Utilization

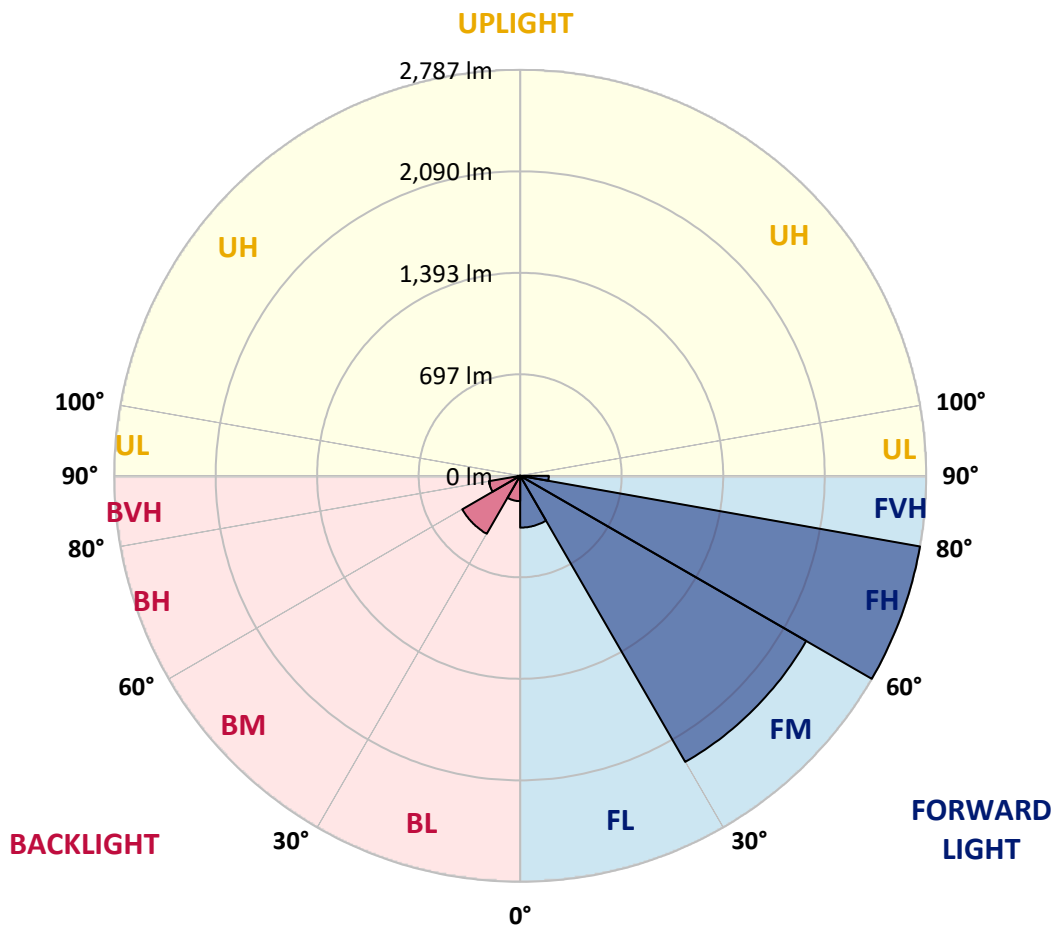


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 355.6 | 5.5 | | | |
| FM (30°-60°) | 2267.3 | 35.0 | | | |
| FH (60°-80°) | 2786.8 | 43.0 | | | G2/5000 |
| FVH (80°-90°) | 196.4 | 3.0 | | | G2/225 |
| BL (0°-30°) | 173.7 | 2.7 | B1/500 | | |
| BM (30°-60°) | 459.2 | 7.1 | B1/1000 | | |
| BH (60°-80°) | 218.5 | 3.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 17.5 | 0.3 | | | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 374.2 | 374.2 | 374.2 | 374.2 | 374.2 | 374.2 | 374.2 | 374.2 | 374.2 | 374.2 | 374.2 |
| 2.5° | 466.8 | 444.4 | 425.0 | 424.2 | 442.2 | 449.1 | 446.3 | 440.2 | 433.1 | 417.9 | 451.0 |
| 5° | 584.8 | 552.7 | 546.6 | 539.5 | 523.2 | 527.6 | 501.0 | 521.2 | 527.6 | 542.2 | 564.3 |
| 7.5° | 654.4 | 635.6 | 621.0 | 614.9 | 586.7 | 583.4 | 563.8 | 592.5 | 604.7 | 602.7 | 635.6 |
| 10° | 681.8 | 664.6 | 665.8 | 645.9 | 636.7 | 640.6 | 642.8 | 643.4 | 650.8 | 656.9 | 640.3 |
| 12.5° | 695.9 | 702.5 | 726.8 | 713.3 | 724.9 | 729.6 | 752.8 | 729.0 | 729.9 | 698.6 | 715.8 |
| 15° | 766.9 | 783.5 | 769.4 | 768.8 | 765.2 | 773.0 | 792.9 | 776.9 | 789.3 | 779.3 | 757.2 |
| 17.5° | 852.6 | 857.5 | 830.5 | 819.4 | 833.8 | 831.3 | 826.3 | 828.8 | 797.9 | 855.3 | 828.3 |
| 20° | 878.8 | 898.5 | 862.8 | 819.4 | 866.9 | 873.3 | 872.2 | 861.4 | 808.4 | 891.3 | 865.0 |
| 22.5° | 955.1 | 928.6 | 900.4 | 872.7 | 897.1 | 900.7 | 894.6 | 868.9 | 851.2 | 882.7 | 903.4 |
| 25° | 989.6 | 983.3 | 947.4 | 944.0 | 917.2 | 904.5 | 915.0 | 907.6 | 890.2 | 946.3 | 923.3 |
| 27.5° | 1068.7 | 1061.2 | 978.6 | 1012.6 | 973.6 | 970.3 | 914.8 | 939.6 | 957.0 | 952.9 | 987.2 |
| 30° | 1158.2 | 1166.8 | 1046.0 | 1080.0 | 1035.0 | 1028.9 | 973.1 | 1004.6 | 1016.5 | 1020.3 | 1063.2 |
| 32.5° | 1257.7 | 1281.2 | 1161.3 | 1133.4 | 1109.3 | 1113.5 | 1066.2 | 1008.7 | 1054.9 | 1145.2 | 1163.8 |
| 35° | 1365.5 | 1375.2 | 1249.4 | 1207.4 | 1144.7 | 1140.3 | 1141.1 | 1148.3 | 1195.0 | 1298.1 | 1312.4 |
| 37.5° | 1564.8 | 1520.0 | 1409.7 | 1303.3 | 1282.3 | 1241.1 | 1269.1 | 1291.2 | 1337.9 | 1495.9 | 1556.2 |
| 40° | 1687.5 | 1654.3 | 1486.3 | 1424.6 | 1366.6 | 1370.5 | 1422.7 | 1422.4 | 1532.7 | 1695.8 | 1787.8 |
| 42.5° | 1801.0 | 1764.8 | 1606.5 | 1544.6 | 1489.6 | 1503.1 | 1518.1 | 1544.3 | 1755.7 | 2018.5 | 2060.5 |
| 45° | 1892.5 | 1813.2 | 1699.3 | 1685.5 | 1640.2 | 1622.2 | 1685.5 | 1727.5 | 2022.4 | 2279.7 | 2304.0 |
| 47.5° | 1954.7 | 1889.5 | 1778.1 | 1765.9 | 1732.5 | 1776.4 | 1949.2 | 1976.3 | 2229.1 | 2542.0 | 2540.0 |
| 50° | 2049.2 | 1960.0 | 1859.4 | 1853.0 | 1947.2 | 1970.7 | 2181.3 | 2178.6 | 2430.3 | 2759.7 | 2714.1 |
| 52.5° | 2158.1 | 2045.6 | 1936.5 | 2004.7 | 2148.4 | 2160.0 | 2342.7 | 2417.1 | 2650.0 | 2969.8 | 2850.7 |
| 55° | 2283.3 | 2157.6 | 2052.0 | 2143.2 | 2357.1 | 2322.8 | 2507.7 | 2689.3 | 2925.0 | 3191.1 | 2949.3 |
| 57.5° | 2438.3 | 2285.8 | 2200.4 | 2339.1 | 2547.5 | 2577.9 | 2744.0 | 2972.5 | 3146.4 | 3328.8 | 3021.2 |
| 60° | 2601.9 | 2422.9 | 2344.6 | 2476.7 | 2814.2 | 2849.0 | 3011.5 | 3208.0 | 3394.5 | 3458.4 | 3007.6 |
| 62.5° | 2758.1 | 2564.4 | 2493.6 | 2656.7 | 3109.9 | 3196.1 | 3316.1 | 3441.2 | 3601.0 | 3489.9 | 2843.8 |
| 65° | 2931.9 | 2737.9 | 2693.4 | 2938.0 | 3510.9 | 3596.6 | 3753.3 | 3715.7 | 3671.7 | 3378.2 | 2572.6 |
| 67.5° | 3116.0 | 2918.9 | 2927.2 | 3264.4 | 3983.7 | 3998.4 | 4239.1 | 3989.3 | 3588.6 | 3082.5 | 2117.5 |
| 70° | 3214.9 | 3013.2 | 3098.6 | 3612.3 | 4464.9 | 4443.9 | 4493.1 | 4062.8 | 3249.5 | 2436.7 | 1459.5 |
| 72.5° | 3095.0 | 2915.1 | 3071.5 | 3758.8 | 4709.7 | 4687.1 | 4350.5 | 3626.4 | 2540.6 | 1515.3 | 756.7 |
| 75° | 2620.5 | 2446.9 | 2686.2 | 3350.6 | 4239.9 | 4260.9 | 3702.4 | 2696.7 | 1454.5 | 609.4 | 314.2 |
| 77.5° | 1780.6 | 1691.1 | 1896.1 | 2497.5 | 3149.4 | 3222.1 | 2747.0 | 1576.9 | 610.8 | 252.3 | 190.1 |
| 80° | 941.0 | 898.5 | 1049.9 | 1438.7 | 1994.2 | 2048.4 | 1615.3 | 785.4 | 312.8 | 163.3 | 135.7 |
| 82.5° | 511.3 | 493.3 | 574.6 | 739.8 | 1133.1 | 1180.3 | 837.7 | 521.8 | 210.9 | 102.3 | 82.9 |
| 85° | 343.5 | 336.6 | 390.5 | 397.4 | 535.9 | 551.3 | 438.9 | 401.8 | 126.6 | 50.0 | 54.7 |
| 87.5° | 171.9 | 165.0 | 205.6 | 181.6 | 204.5 | 204.8 | 201.2 | 256.5 | 32.1 | 16.6 | 9.9 |
| 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° | 374.2 | 374.2 | 374.2 | 374.2 | 374.2 | 374.2 | 374.2 | 374.2 | 374.2 | 374.2 | 374.2 |
| 2.5° | 451.6 | 441.9 | 408.5 | 408.2 | 413.2 | 409.8 | 412.3 | 398.8 | 393.0 | 419.5 | 418.1 |
| 5° | 561.3 | 532.3 | 504.4 | 494.7 | 483.4 | 458.8 | 460.1 | 460.4 | 456.3 | 472.0 | 473.1 |
| 7.5° | 625.7 | 590.9 | 565.2 | 513.8 | 473.4 | 441.9 | 446.0 | 450.7 | 446.0 | 467.1 | 474.8 |
| 10° | 635.1 | 607.4 | 576.8 | 519.6 | 492.8 | 464.3 | 435.5 | 410.1 | 407.1 | 397.4 | 400.4 |
| 12.5° | 690.9 | 668.0 | 603.8 | 541.1 | 509.9 | 466.2 | 413.7 | 384.7 | 360.4 | 364.5 | 356.8 |
| 15° | 736.8 | 720.5 | 643.6 | 561.6 | 486.9 | 432.8 | 377.0 | 337.2 | 315.3 | 312.8 | 305.1 |
| 17.5° | 799.0 | 775.7 | 647.2 | 547.5 | 457.4 | 392.4 | 329.4 | 284.4 | 275.0 | 271.1 | 267.2 |
| 20° | 828.8 | 787.1 | 634.2 | 503.3 | 422.8 | 344.3 | 282.4 | 243.8 | 241.0 | 247.9 | 246.5 |
| 22.5° | 854.8 | 796.5 | 622.6 | 476.4 | 368.9 | 295.7 | 250.4 | 225.0 | 221.9 | 230.8 | 232.4 |
| 25° | 870.0 | 823.3 | 609.9 | 449.1 | 335.5 | 259.5 | 226.3 | 212.0 | 212.5 | 224.1 | 222.7 |
| 27.5° | 938.5 | 832.7 | 577.9 | 416.8 | 297.1 | 232.7 | 214.7 | 207.3 | 204.2 | 220.3 | 221.6 |
| 30° | 981.6 | 894.0 | 570.7 | 382.5 | 268.6 | 213.1 | 204.2 | 201.2 | 200.6 | 220.0 | 221.4 |
| 32.5° | 1061.8 | 914.5 | 574.0 | 345.2 | 242.9 | 207.0 | 196.5 | 196.2 | 201.7 | 220.3 | 222.5 |
| 35° | 1172.9 | 1000.7 | 558.0 | 323.9 | 228.8 | 197.6 | 190.4 | 192.6 | 202.0 | 222.2 | 225.2 |
| 37.5° | 1389.5 | 1082.0 | 562.9 | 304.0 | 224.1 | 194.6 | 188.8 | 190.1 | 205.3 | 227.2 | 235.5 |
| 40° | 1561.2 | 1229.3 | 555.2 | 294.0 | 217.8 | 194.0 | 185.2 | 190.7 | 205.1 | 229.9 | 237.4 |
| 42.5° | 1809.9 | 1346.7 | 556.0 | 284.1 | 217.5 | 191.8 | 184.6 | 191.2 | 204.5 | 227.4 | 237.7 |
| 45° | 2023.2 | 1452.0 | 567.9 | 278.3 | 214.7 | 195.4 | 183.8 | 192.1 | 200.9 | 218.6 | 229.9 |
| 47.5° | 2198.2 | 1569.5 | 580.1 | 272.8 | 213.6 | 198.7 | 183.0 | 186.3 | 194.8 | 208.7 | 218.9 |
| 50° | 2340.8 | 1652.1 | 595.6 | 271.7 | 213.6 | 197.0 | 180.7 | 180.5 | 187.6 | 198.7 | 208.4 |
| 52.5° | 2451.9 | 1710.4 | 606.1 | 273.0 | 213.6 | 190.7 | 178.0 | 175.8 | 180.2 | 188.2 | 197.9 |
| 55° | 2532.3 | 1728.4 | 597.5 | 276.6 | 213.4 | 184.9 | 173.0 | 171.1 | 173.3 | 178.8 | 187.9 |
| 57.5° | 2564.6 | 1681.1 | 546.4 | 270.3 | 213.4 | 180.7 | 166.9 | 164.7 | 166.9 | 171.1 | 180.2 |
| 60° | 2483.7 | 1529.1 | 472.6 | 254.0 | 209.2 | 175.2 | 160.0 | 158.6 | 161.9 | 165.5 | 174.4 |
| 62.5° | 2280.5 | 1327.1 | 393.8 | 234.6 | 200.6 | 170.5 | 153.4 | 153.7 | 158.9 | 163.9 | 172.7 |
| 65° | 1964.9 | 1082.8 | 328.3 | 215.0 | 189.9 | 163.1 | 146.5 | 148.4 | 155.9 | 162.5 | 171.3 |
| 67.5° | 1546.2 | 802.3 | 276.4 | 195.9 | 174.7 | 150.9 | 138.7 | 139.3 | 144.5 | 150.9 | 159.5 |
| 70° | 1033.6 | 510.4 | 227.2 | 173.6 | 154.8 | 135.1 | 126.8 | 124.9 | 123.5 | 129.1 | 136.5 |
| 72.5° | 524.3 | 301.5 | 186.5 | 148.4 | 133.2 | 118.0 | 111.6 | 106.7 | 102.8 | 106.1 | 111.9 |
| 75° | 274.7 | 210.9 | 150.6 | 123.3 | 110.0 | 100.3 | 95.6 | 89.0 | 86.2 | 88.2 | 92.3 |
| 77.5° | 194.3 | 165.0 | 121.9 | 97.6 | 89.5 | 79.6 | 80.4 | 73.5 | 71.3 | 72.4 | 76.8 |
| 80° | 149.2 | 130.7 | 93.7 | 73.8 | 69.1 | 59.4 | 62.2 | 58.0 | 55.3 | 54.7 | 58.0 |
| 82.5° | 101.7 | 98.4 | 66.6 | 51.7 | 48.4 | 41.5 | 45.3 | 43.7 | 40.1 | 37.9 | 39.5 |
| 85° | 68.5 | 65.2 | 40.6 | 29.8 | 28.5 | 21.6 | 27.6 | 26.5 | 23.5 | 20.2 | 20.5 |
| 87.5° | 11.9 | 21.8 | 11.6 | 7.5 | 6.9 | 2.5 | 6.4 | 6.1 | 5.5 | 2.8 | 2.2 |
| 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)