

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: P367075

Luminaire Tested: **PMM-SA1D-750-U-T2-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-9)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA1D-750-U-T2-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5172 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

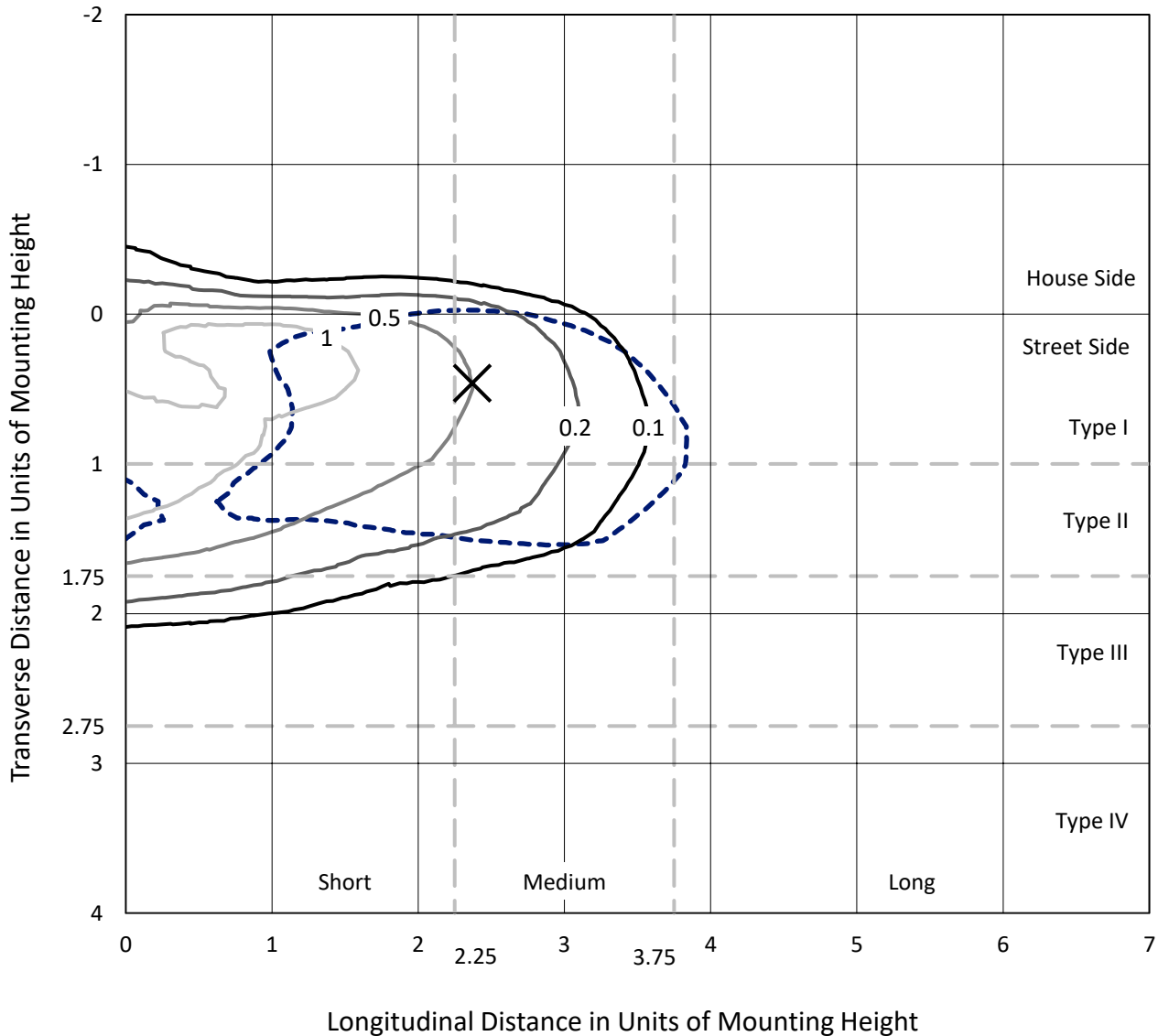
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

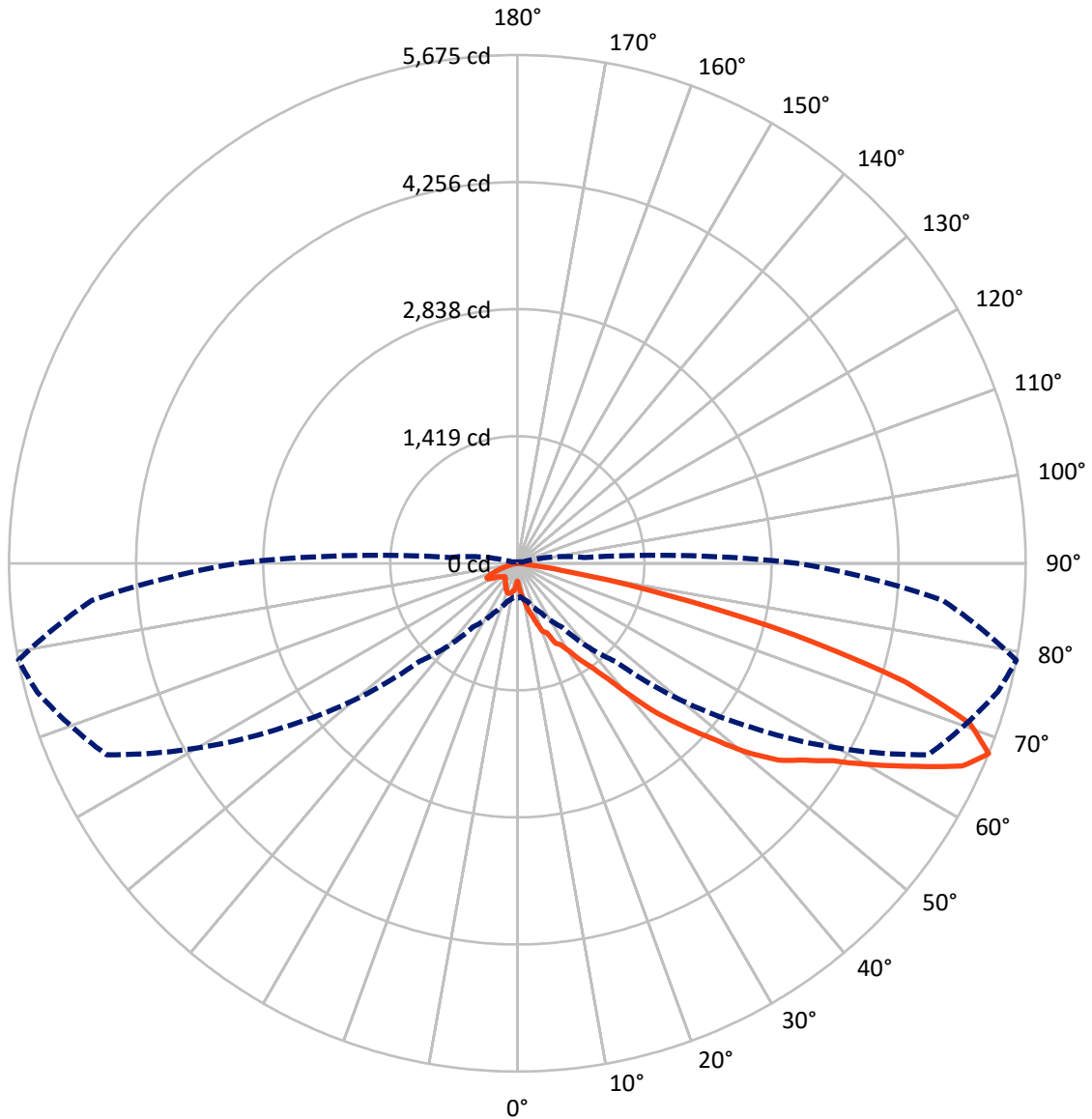
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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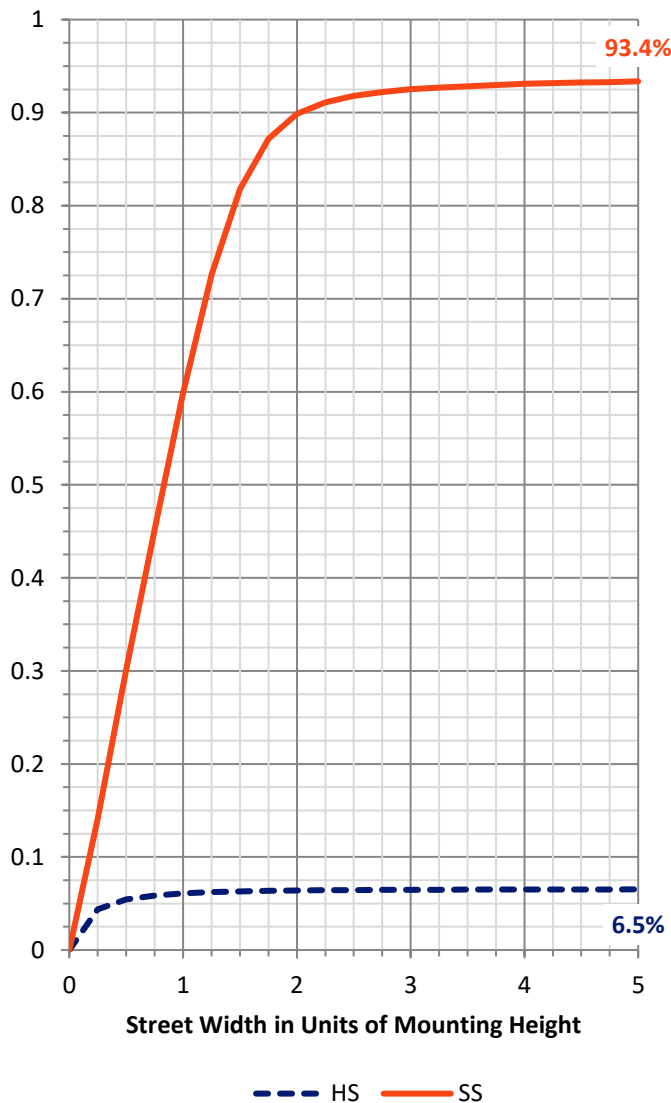
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 339.8 | 0.0 | 339.8 |
| | % Fixture | 6.6 | 0.0 | 6.6 |
| Street Side | Lumens | 4832.2 | 0.0 | 4832.2 |
| | % Fixture | 93.4 | 0.0 | 93.4 |
| Total | Lumens | 5172.0 | 0.0 | 5172.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 29.0 | 0.6 |
| 10°-20° | 115.6 | 2.2 |
| 20°-30° | 223.0 | 4.3 |
| 30°-40° | 438.0 | 8.5 |
| 40°-50° | 877.3 | 17.0 |
| 50°-60° | 1402.3 | 27.1 |
| 60°-70° | 1411.0 | 27.3 |
| 70°-80° | 636.5 | 12.3 |
| 80°-90° | 39.4 | 0.8 |
| 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° | 5172.0 | 100.0 |
| 0°-180° | 5172.0 | 100.0 |

Coefficient of Utilization



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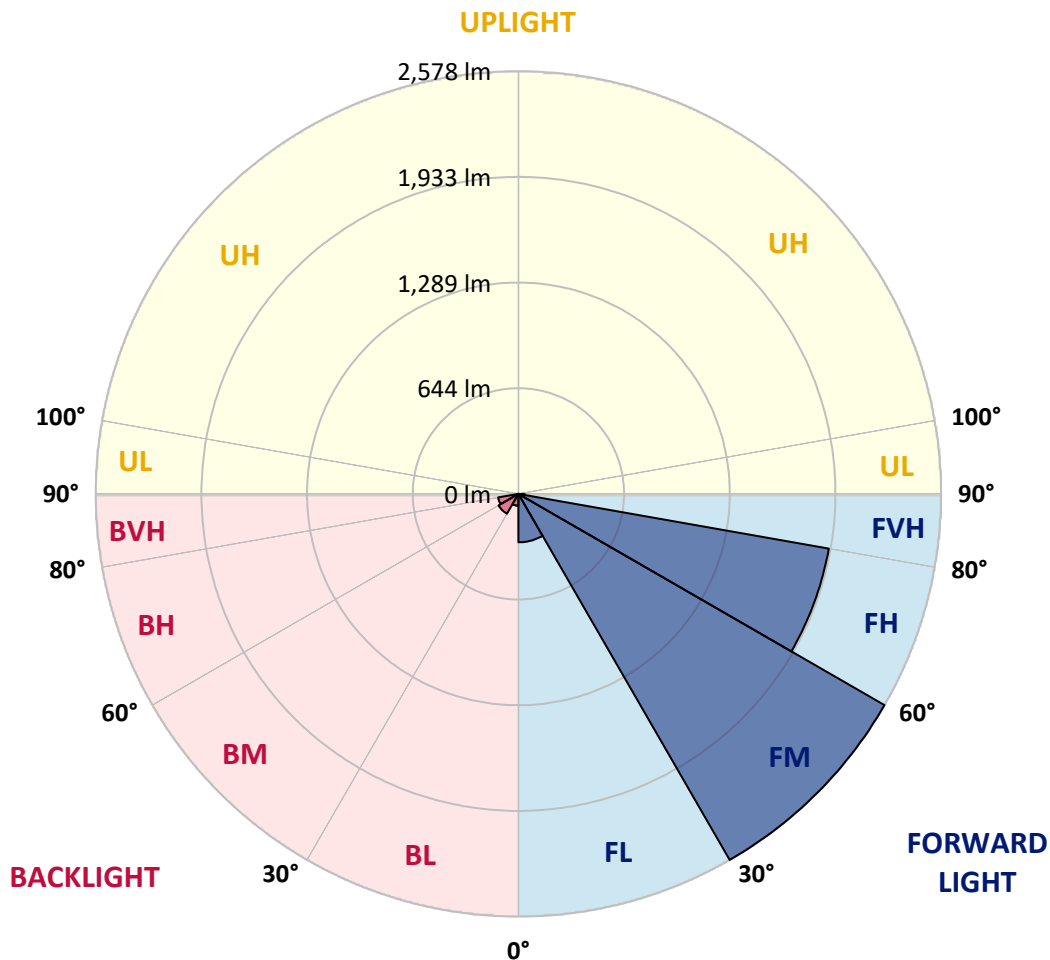
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 295.3 | 5.7 | | | |
| FM (30°-60°) | 2577.8 | 49.8 | | | |
| FH (60°-80°) | 1922.2 | 37.2 | | | G2/5000 |
| FVH (80°-90°) | 36.9 | 0.7 | | | G1/100 |
| BL (0°-30°) | 72.2 | 1.4 | B0/110 | | |
| BM (30°-60°) | 139.8 | 2.7 | B0/220 | | |
| BH (60°-80°) | 125.3 | 2.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.5 | 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 II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 199.3 | 199.3 | 199.3 | 199.3 | 199.3 | 199.3 | 199.3 | 199.3 | 199.3 | 199.3 | 199.3 |
| 2.5° | 269.1 | 259.4 | 243.8 | 252.6 | 252.0 | 256.6 | 248.0 | 238.6 | 223.5 | 238.6 | 239.8 |
| 5° | 387.5 | 369.5 | 358.1 | 355.8 | 343.3 | 331.6 | 329.0 | 319.3 | 311.9 | 298.5 | 310.5 |
| 7.5° | 482.7 | 474.4 | 454.2 | 451.9 | 421.1 | 404.0 | 409.4 | 405.1 | 376.9 | 362.9 | 374.6 |
| 10° | 523.2 | 508.9 | 511.8 | 508.9 | 495.8 | 500.6 | 489.5 | 476.7 | 454.2 | 431.1 | 402.0 |
| 12.5° | 538.9 | 536.6 | 560.2 | 557.4 | 588.2 | 625.2 | 600.4 | 579.1 | 526.9 | 521.2 | 481.5 |
| 15° | 572.5 | 586.8 | 583.3 | 595.3 | 615.0 | 678.0 | 677.4 | 682.5 | 627.2 | 597.6 | 540.3 |
| 17.5° | 602.4 | 613.0 | 595.9 | 609.6 | 663.2 | 701.4 | 752.4 | 732.4 | 738.7 | 708.5 | 619.8 |
| 20° | 589.6 | 601.6 | 584.5 | 576.2 | 670.6 | 743.0 | 811.1 | 796.6 | 834.2 | 815.4 | 693.1 |
| 22.5° | 669.7 | 647.2 | 604.1 | 577.3 | 647.8 | 742.1 | 831.9 | 892.7 | 886.1 | 839.9 | 761.2 |
| 25° | 768.7 | 755.0 | 703.4 | 656.0 | 662.3 | 737.0 | 897.5 | 986.8 | 1006.1 | 986.5 | 826.0 |
| 27.5° | 902.1 | 898.9 | 793.5 | 772.9 | 711.9 | 714.5 | 907.8 | 1105.4 | 1061.2 | 1030.4 | 901.5 |
| 30° | 1076.3 | 1051.5 | 926.3 | 899.5 | 809.4 | 765.2 | 970.5 | 1207.7 | 1175.2 | 1133.3 | 972.5 |
| 32.5° | 1263.6 | 1267.3 | 1107.6 | 1019.3 | 946.8 | 894.4 | 945.7 | 1255.6 | 1316.3 | 1282.4 | 1061.2 |
| 35° | 1476.3 | 1492.8 | 1297.5 | 1193.7 | 1052.9 | 975.6 | 1052.3 | 1402.7 | 1511.6 | 1422.4 | 1180.1 |
| 37.5° | 1803.9 | 1803.3 | 1575.2 | 1368.5 | 1266.2 | 1182.3 | 1230.0 | 1536.4 | 1751.7 | 1626.3 | 1393.3 |
| 40° | 2092.1 | 2029.4 | 1817.3 | 1579.8 | 1420.1 | 1397.3 | 1362.8 | 1719.5 | 2008.0 | 1932.5 | 1582.9 |
| 42.5° | 2307.4 | 2263.2 | 2006.9 | 1822.1 | 1624.3 | 1551.8 | 1539.6 | 1987.8 | 2386.4 | 2280.6 | 1853.5 |
| 45° | 2564.8 | 2420.0 | 2231.3 | 2064.8 | 1863.2 | 1842.1 | 1813.3 | 2260.1 | 2826.6 | 2588.2 | 2088.7 |
| 47.5° | 2795.5 | 2659.2 | 2480.7 | 2266.9 | 2035.4 | 2209.3 | 2098.7 | 2499.3 | 3146.7 | 2922.9 | 2348.2 |
| 50° | 2989.6 | 2844.8 | 2644.9 | 2482.2 | 2382.9 | 2501.0 | 2316.5 | 2696.3 | 3492.6 | 3311.2 | 2590.8 |
| 52.5° | 3088.6 | 2924.6 | 2770.1 | 2669.5 | 2730.2 | 2703.7 | 2611.9 | 2934.9 | 3787.4 | 3651.7 | 2805.7 |
| 55° | 3007.3 | 2847.1 | 2782.4 | 2832.3 | 3016.7 | 2940.0 | 2947.4 | 3304.7 | 4065.6 | 3878.6 | 2992.8 |
| 57.5° | 2646.9 | 2500.7 | 2529.5 | 2666.0 | 3019.6 | 3220.3 | 3330.1 | 3663.9 | 4288.9 | 4161.4 | 3281.3 |
| 60° | 2002.3 | 1884.6 | 1991.2 | 2233.5 | 2735.6 | 3164.4 | 3601.5 | 4023.2 | 4607.9 | 4568.0 | 3718.1 |
| 62.5° | 1222.8 | 1159.0 | 1310.1 | 1612.3 | 2179.9 | 2890.4 | 3759.7 | 4502.1 | 4949.2 | 4991.7 | 4181.4 |
| 65° | 623.8 | 595.0 | 721.0 | 986.8 | 1472.9 | 2374.4 | 3645.4 | 4799.8 | 5301.9 | 5458.7 | 4623.0 |
| 67.5° | 392.9 | 374.3 | 441.6 | 601.9 | 869.0 | 1548.7 | 3191.8 | 5060.1 | 5551.1 | 5675.1 | 4770.4 |
| 70° | 272.3 | 260.6 | 318.8 | 413.1 | 548.3 | 834.2 | 2369.8 | 4817.2 | 5353.5 | 5359.2 | 4413.8 |
| 72.5° | 172.8 | 163.7 | 220.4 | 305.9 | 404.6 | 430.8 | 1358.5 | 3780.0 | 4582.5 | 4529.8 | 3574.4 |
| 75° | 112.0 | 107.5 | 140.0 | 224.1 | 310.8 | 265.7 | 671.4 | 2550.6 | 3285.9 | 3203.2 | 2374.1 |
| 77.5° | 80.4 | 77.5 | 93.8 | 149.7 | 221.2 | 185.9 | 301.1 | 1520.2 | 1884.0 | 1703.2 | 1152.4 |
| 80° | 48.5 | 48.2 | 67.9 | 93.8 | 157.4 | 131.1 | 139.1 | 690.2 | 730.4 | 595.6 | 352.1 |
| 82.5° | 24.2 | 25.1 | 37.9 | 60.4 | 101.2 | 85.8 | 63.6 | 229.8 | 196.2 | 144.5 | 71.3 |
| 85° | 5.7 | 7.1 | 20.0 | 41.6 | 50.7 | 34.2 | 30.2 | 60.2 | 53.9 | 40.8 | 20.8 |
| 87.5° | 0.0 | 0.0 | 6.3 | 10.0 | 13.7 | 5.7 | 10.3 | 11.4 | 14.5 | 11.4 | 4.3 |
| 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° | 199.3 | 199.3 | 199.3 | 199.3 | 199.3 | 199.3 | 199.3 | 199.3 | 199.3 | 199.3 | 199.3 |
| 2.5° | 240.1 | 236.6 | 215.8 | 210.4 | 209.8 | 203.9 | 205.3 | 199.6 | 199.9 | 212.7 | 212.7 |
| 5° | 305.9 | 286.0 | 266.0 | 248.3 | 236.4 | 219.2 | 213.0 | 210.4 | 208.1 | 213.3 | 216.4 |
| 7.5° | 359.2 | 329.9 | 293.9 | 255.5 | 219.8 | 195.3 | 191.9 | 185.6 | 183.3 | 188.5 | 192.4 |
| 10° | 382.9 | 346.4 | 297.1 | 240.9 | 207.6 | 187.6 | 171.1 | 162.2 | 160.5 | 160.2 | 161.7 |
| 12.5° | 433.1 | 387.7 | 300.5 | 235.5 | 199.3 | 177.3 | 158.5 | 143.7 | 130.0 | 131.4 | 130.0 |
| 15° | 473.3 | 419.7 | 300.5 | 222.4 | 179.3 | 157.4 | 124.3 | 116.9 | 114.9 | 118.0 | 115.5 |
| 17.5° | 534.0 | 451.3 | 285.4 | 199.0 | 162.2 | 122.3 | 109.8 | 109.2 | 113.2 | 117.7 | 114.9 |
| 20° | 570.5 | 455.6 | 260.0 | 172.2 | 133.1 | 106.1 | 101.5 | 96.9 | 102.6 | 106.3 | 104.9 |
| 22.5° | 608.4 | 455.9 | 234.6 | 157.9 | 107.2 | 96.7 | 89.2 | 85.5 | 86.4 | 89.8 | 90.4 |
| 25° | 624.7 | 444.8 | 211.0 | 139.1 | 97.2 | 86.4 | 78.7 | 74.7 | 73.3 | 75.0 | 74.4 |
| 27.5° | 668.9 | 423.4 | 185.3 | 118.6 | 92.4 | 76.7 | 69.6 | 64.7 | 60.4 | 63.3 | 63.9 |
| 30° | 675.1 | 416.5 | 171.4 | 105.5 | 86.1 | 67.9 | 61.6 | 56.5 | 53.3 | 57.3 | 57.3 |
| 32.5° | 695.1 | 378.9 | 164.2 | 100.1 | 79.5 | 62.7 | 54.2 | 50.5 | 49.9 | 52.5 | 52.7 |
| 35° | 725.9 | 362.4 | 153.7 | 95.8 | 73.6 | 56.7 | 48.8 | 47.0 | 46.5 | 48.5 | 48.5 |
| 37.5° | 830.2 | 341.8 | 142.0 | 92.1 | 68.4 | 53.6 | 47.3 | 44.5 | 44.8 | 46.5 | 47.6 |
| 40° | 899.5 | 344.4 | 124.6 | 87.5 | 62.4 | 50.7 | 44.5 | 42.5 | 42.2 | 43.1 | 43.9 |
| 42.5° | 1028.1 | 346.4 | 116.9 | 82.7 | 57.9 | 47.3 | 41.6 | 40.2 | 39.1 | 39.9 | 40.8 |
| 45° | 1171.8 | 357.0 | 112.9 | 78.7 | 55.3 | 45.3 | 39.1 | 38.2 | 35.6 | 36.2 | 37.3 |
| 47.5° | 1310.4 | 395.4 | 108.1 | 73.0 | 53.0 | 44.2 | 36.5 | 34.5 | 32.8 | 32.5 | 33.6 |
| 50° | 1467.7 | 432.8 | 102.6 | 66.7 | 50.7 | 42.5 | 33.9 | 30.8 | 29.7 | 29.7 | 30.5 |
| 52.5° | 1608.6 | 468.4 | 97.5 | 62.4 | 49.0 | 39.3 | 31.6 | 28.5 | 27.7 | 27.7 | 28.8 |
| 55° | 1756.8 | 505.8 | 92.9 | 58.4 | 46.8 | 36.2 | 29.7 | 26.8 | 26.5 | 25.9 | 26.8 |
| 57.5° | 2018.6 | 587.3 | 87.2 | 55.0 | 43.6 | 33.6 | 27.9 | 25.1 | 24.5 | 23.7 | 24.5 |
| 60° | 2399.8 | 712.5 | 79.8 | 51.6 | 39.9 | 31.9 | 26.5 | 23.1 | 22.2 | 20.8 | 21.1 |
| 62.5° | 2772.4 | 813.7 | 71.3 | 47.3 | 36.5 | 30.2 | 24.2 | 20.8 | 19.4 | 17.7 | 18.0 |
| 65° | 3091.7 | 853.6 | 62.2 | 42.2 | 33.1 | 26.2 | 21.1 | 18.2 | 16.3 | 14.0 | 13.7 |
| 67.5° | 3129.3 | 753.8 | 53.3 | 37.3 | 29.7 | 22.2 | 18.0 | 16.3 | 13.1 | 11.1 | 10.5 |
| 70° | 2816.3 | 561.7 | 44.5 | 33.1 | 25.7 | 18.8 | 15.4 | 14.3 | 12.3 | 10.5 | 9.7 |
| 72.5° | 2242.7 | 414.5 | 37.3 | 29.4 | 22.5 | 16.0 | 13.1 | 13.4 | 12.3 | 10.3 | 9.1 |
| 75° | 1483.1 | 237.2 | 30.5 | 24.5 | 18.8 | 12.8 | 12.0 | 12.0 | 11.7 | 9.7 | 8.6 |
| 77.5° | 713.6 | 102.4 | 23.4 | 19.4 | 15.1 | 9.7 | 10.8 | 10.8 | 11.1 | 8.8 | 7.1 |
| 80° | 202.4 | 30.8 | 14.5 | 13.1 | 11.1 | 6.6 | 8.6 | 8.3 | 7.4 | 5.1 | 3.1 |
| 82.5° | 36.2 | 12.0 | 6.6 | 6.8 | 6.3 | 2.6 | 4.8 | 4.6 | 3.7 | 2.0 | 0.3 |
| 85° | 10.0 | 4.6 | 3.7 | 4.0 | 3.1 | 0.9 | 2.0 | 2.6 | 2.0 | 1.1 | 0.0 |
| 87.5° | 2.6 | 2.0 | 2.6 | 2.9 | 2.3 | 0.3 | 0.9 | 0.3 | 0.9 | 0.3 | 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)