

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: P367066

Luminaire Tested: **PMM-SA1D-750-U-SL2**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-16)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA1D-750-U-SL2
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6812 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

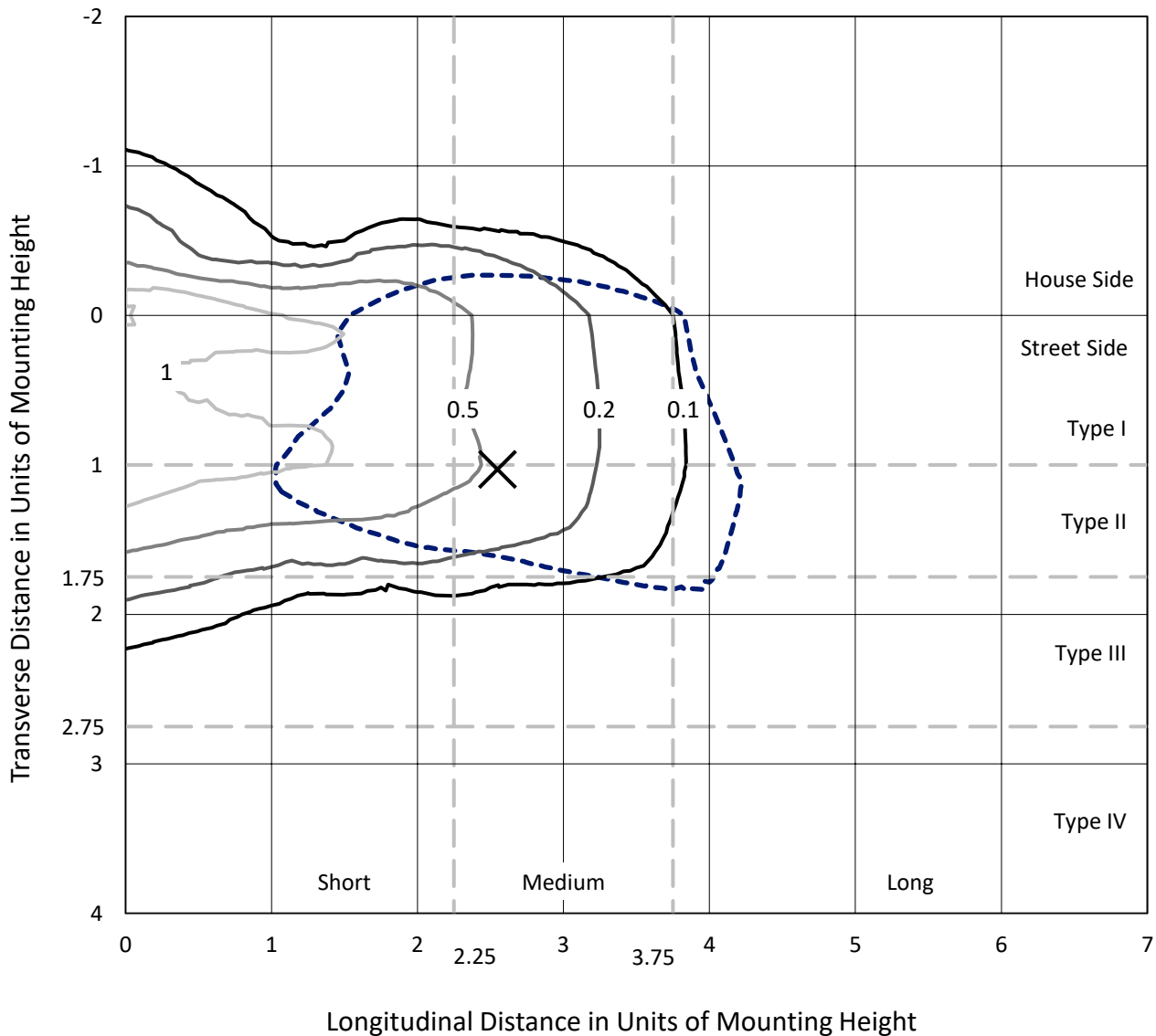
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

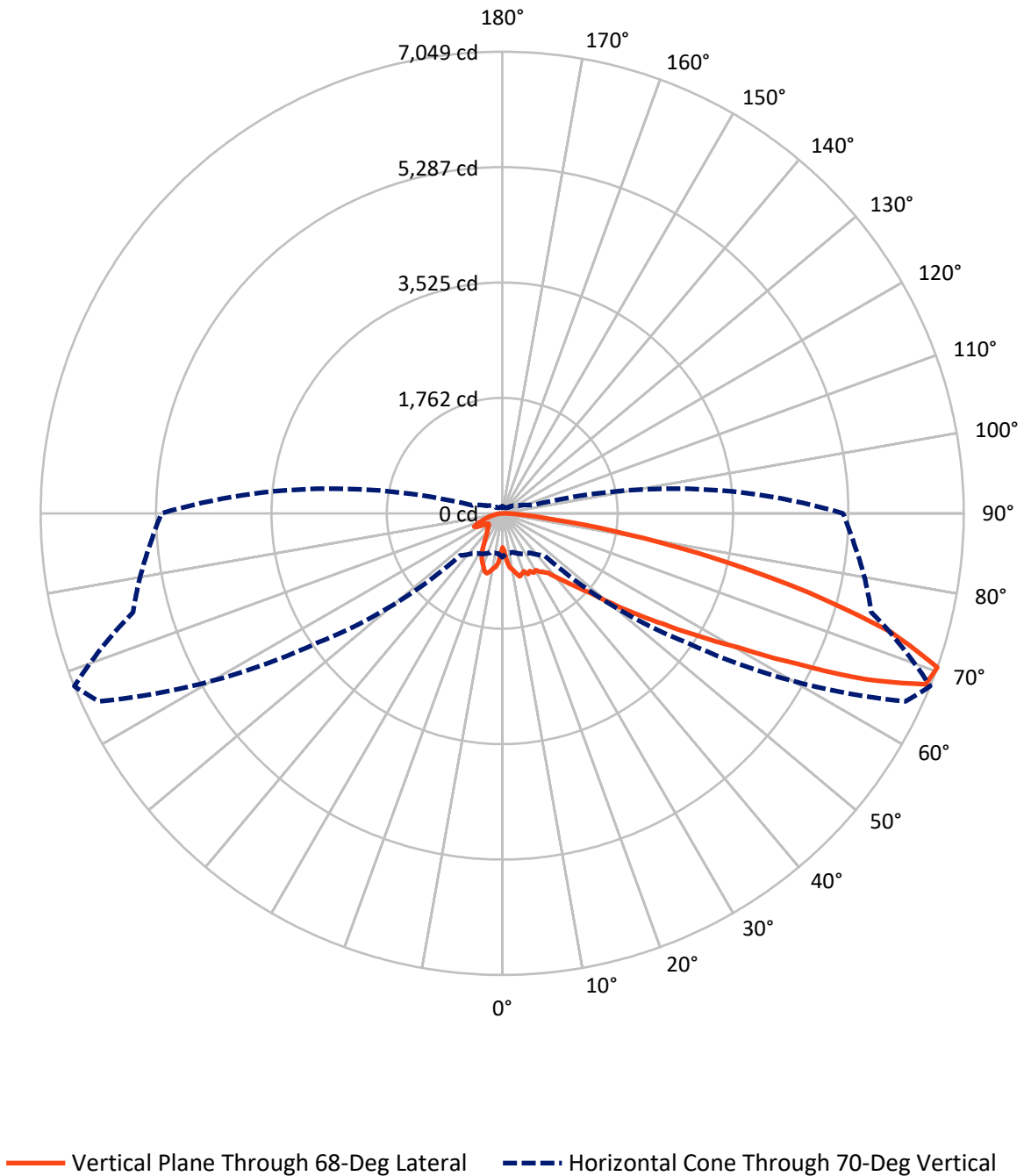
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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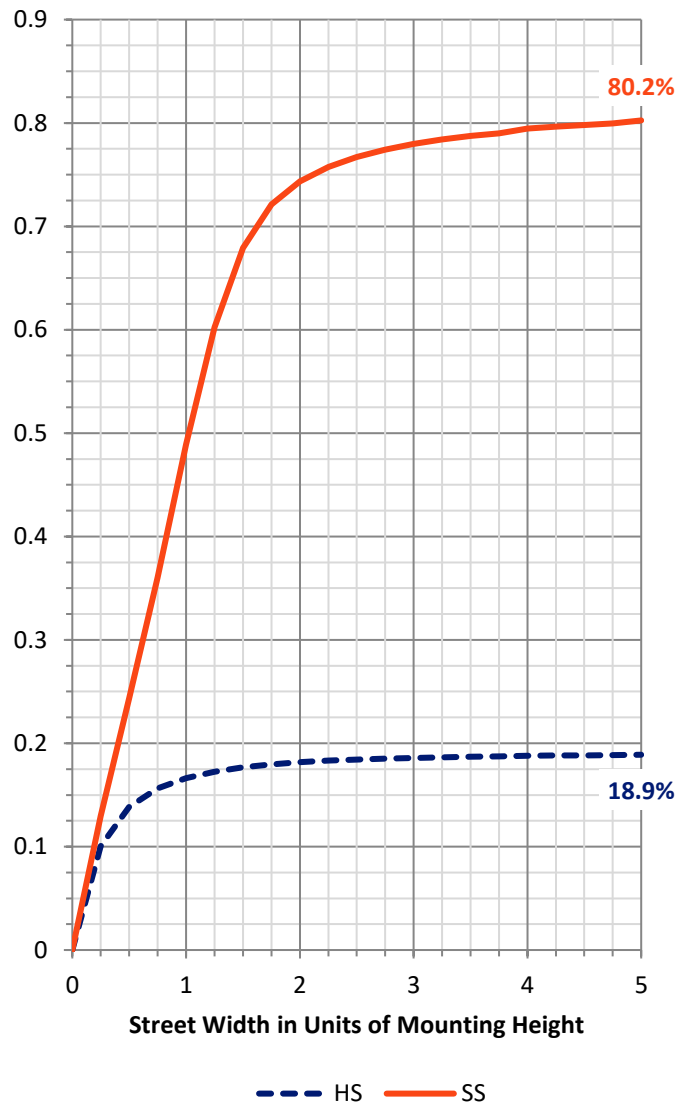
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1300.6 | 0.0 | 1300.6 |
| | % Fixture | 19.1 | 0.0 | 19.1 |
| Street Side | Lumens | 5511.4 | 0.0 | 5511.4 |
| | % Fixture | 80.9 | 0.0 | 80.9 |
| Total | Lumens | 6812.0 | 0.0 | 6812.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 69.8 | 1.0 |
| 10°-20° | 227.4 | 3.3 |
| 20°-30° | 345.8 | 5.1 |
| 30°-40° | 528.3 | 7.8 |
| 40°-50° | 908.3 | 13.3 |
| 50°-60° | 1503.5 | 22.1 |
| 60°-70° | 1853.6 | 27.2 |
| 70°-80° | 1190.7 | 17.5 |
| 80°-90° | 184.7 | 2.7 |
| 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° | 6812.0 | 100.0 |
| 0°-180° | 6812.0 | 100.0 |

Coefficient of Utilization



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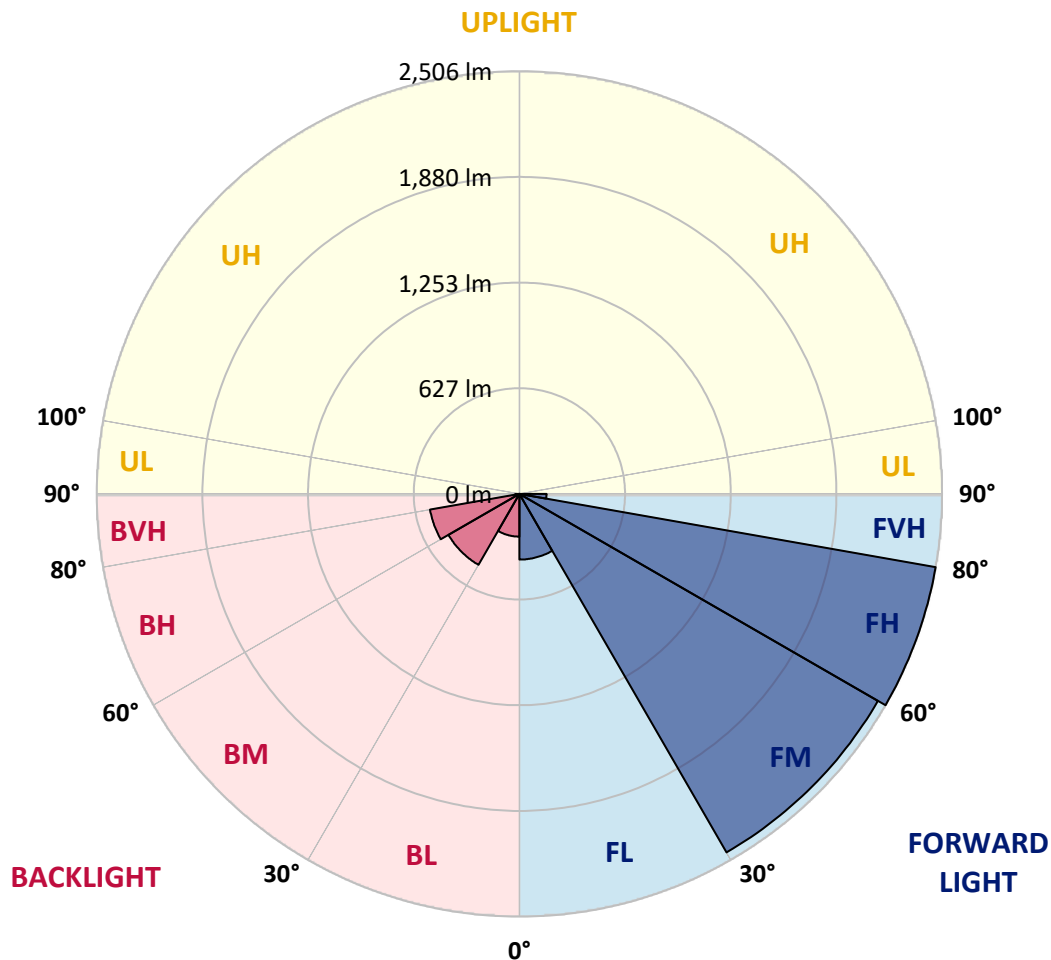
CATALOG NUMBER: PMM-SA1D-750-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 389.5 | 5.7 | | | |
| FM (30°-60°) | 2454.6 | 36.0 | | | |
| FH (60°-80°) | 2506.3 | 36.8 | | | G2/5000 |
| FVH (80°-90°) | 161.0 | 2.4 | | | G2/225 |
| BL (0°-30°) | 253.4 | 3.7 | B1/500 | | |
| BM (30°-60°) | 485.5 | 7.1 | B1/1000 | | |
| BH (60°-80°) | 538.0 | 7.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 23.7 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 68° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 522.3 | 522.3 | 522.3 | 522.3 | 522.3 | 522.3 | 522.3 | 522.3 | 522.3 | 522.3 | 522.3 |
| 2.5° | 600.1 | 575.9 | 551.4 | 563.4 | 582.5 | 599.3 | 595.9 | 597.9 | 574.8 | 571.6 | 632.3 |
| 5° | 707.0 | 665.4 | 664.6 | 665.1 | 666.8 | 647.5 | 694.8 | 719.3 | 724.7 | 749.8 | 809.4 |
| 7.5° | 744.1 | 727.3 | 710.2 | 718.7 | 697.1 | 699.1 | 757.2 | 821.1 | 836.2 | 854.4 | 936.0 |
| 10° | 736.4 | 720.4 | 725.6 | 727.0 | 731.0 | 763.2 | 800.6 | 861.9 | 874.7 | 932.8 | 953.9 |
| 12.5° | 737.5 | 734.7 | 758.6 | 759.5 | 802.3 | 860.1 | 875.0 | 931.4 | 936.5 | 979.3 | 1067.4 |
| 15° | 776.6 | 796.3 | 782.9 | 790.0 | 798.3 | 867.6 | 888.9 | 969.9 | 1000.7 | 1055.7 | 1121.9 |
| 17.5° | 852.7 | 858.4 | 818.2 | 807.7 | 834.8 | 855.9 | 904.6 | 939.7 | 971.9 | 1125.6 | 1216.8 |
| 20° | 870.4 | 885.8 | 837.9 | 783.5 | 840.8 | 870.1 | 904.0 | 920.0 | 945.1 | 1135.8 | 1265.3 |
| 22.5° | 946.2 | 914.3 | 856.4 | 809.1 | 827.9 | 856.4 | 881.0 | 941.1 | 1007.0 | 1106.5 | 1313.7 |
| 25° | 989.3 | 970.8 | 919.2 | 868.4 | 852.4 | 853.3 | 900.6 | 954.5 | 977.3 | 1149.5 | 1323.4 |
| 27.5° | 1093.4 | 1063.7 | 947.7 | 938.0 | 877.8 | 831.1 | 903.8 | 987.6 | 1027.5 | 1115.9 | 1370.8 |
| 30° | 1223.6 | 1201.1 | 1048.9 | 1036.0 | 944.2 | 862.7 | 943.7 | 1012.1 | 1006.4 | 1137.8 | 1403.5 |
| 32.5° | 1329.1 | 1366.8 | 1213.1 | 1111.9 | 1046.6 | 968.5 | 931.1 | 1007.8 | 1064.6 | 1188.9 | 1459.1 |
| 35° | 1479.7 | 1515.0 | 1341.1 | 1272.7 | 1131.0 | 1017.5 | 1018.7 | 1066.6 | 1101.6 | 1248.4 | 1521.3 |
| 37.5° | 1740.2 | 1709.2 | 1569.2 | 1461.1 | 1370.5 | 1201.1 | 1150.4 | 1133.6 | 1161.8 | 1321.4 | 1643.0 |
| 40° | 1928.1 | 1901.9 | 1737.1 | 1675.5 | 1499.0 | 1400.7 | 1261.6 | 1245.6 | 1295.5 | 1396.7 | 1742.5 |
| 42.5° | 2150.8 | 2104.0 | 1950.6 | 1899.9 | 1715.4 | 1538.1 | 1397.8 | 1407.0 | 1431.2 | 1538.7 | 1877.1 |
| 45° | 2377.4 | 2264.0 | 2177.0 | 2173.0 | 2049.9 | 1805.0 | 1616.5 | 1609.1 | 1610.0 | 1747.7 | 2028.2 |
| 47.5° | 2557.3 | 2455.3 | 2355.8 | 2308.4 | 2246.3 | 2266.5 | 1934.1 | 1847.2 | 1820.9 | 1958.1 | 2254.8 |
| 50° | 2679.1 | 2561.6 | 2449.0 | 2437.9 | 2603.8 | 2713.0 | 2232.3 | 2139.4 | 2155.6 | 2259.1 | 2557.0 |
| 52.5° | 2681.6 | 2542.2 | 2424.8 | 2502.6 | 2893.5 | 3049.7 | 2746.1 | 2486.3 | 2538.2 | 2608.6 | 2951.3 |
| 55° | 2495.2 | 2350.6 | 2274.2 | 2451.6 | 3006.6 | 3449.1 | 3467.9 | 3042.3 | 2982.4 | 3008.4 | 3422.6 |
| 57.5° | 2102.0 | 1956.1 | 1911.6 | 2124.0 | 2792.0 | 3834.3 | 4339.8 | 3706.6 | 3530.9 | 3422.6 | 3905.6 |
| 60° | 1582.3 | 1456.0 | 1428.3 | 1563.8 | 2314.7 | 3721.1 | 5045.7 | 4533.3 | 4175.6 | 3885.3 | 4389.9 |
| 62.5° | 1186.6 | 1095.9 | 1054.3 | 1073.7 | 1601.7 | 3353.0 | 5509.2 | 5577.9 | 5071.3 | 4390.5 | 4863.2 |
| 65° | 964.2 | 890.9 | 853.9 | 828.8 | 996.1 | 2592.7 | 5425.4 | 6457.2 | 6117.6 | 4921.1 | 5231.6 |
| 67.5° | 805.4 | 740.4 | 723.3 | 747.8 | 787.4 | 1504.2 | 4769.7 | 6949.0 | 6972.1 | 5444.5 | 5446.8 |
| 70° | 668.6 | 620.4 | 614.1 | 683.7 | 735.8 | 907.8 | 3445.1 | 6794.5 | 7049.3 | 5837.1 | 5396.3 |
| 72.5° | 516.6 | 490.7 | 489.8 | 599.0 | 731.0 | 773.8 | 2051.6 | 5869.6 | 6212.0 | 5711.7 | 4902.6 |
| 75° | 358.4 | 340.4 | 354.1 | 492.4 | 714.2 | 784.9 | 1170.9 | 4571.8 | 4828.1 | 4860.4 | 3927.2 |
| 77.5° | 246.6 | 231.5 | 246.3 | 356.1 | 637.8 | 803.7 | 819.1 | 3305.7 | 3334.2 | 3259.2 | 2249.4 |
| 80° | 171.6 | 161.1 | 172.5 | 252.0 | 496.4 | 795.4 | 697.4 | 2081.2 | 1909.6 | 1454.6 | 720.2 |
| 82.5° | 106.3 | 103.2 | 115.7 | 179.6 | 349.5 | 723.6 | 660.9 | 1074.0 | 819.9 | 401.4 | 257.2 |
| 85° | 55.9 | 51.3 | 67.3 | 117.2 | 218.7 | 567.9 | 619.2 | 490.1 | 316.5 | 142.5 | 103.2 |
| 87.5° | 16.5 | 14.8 | 25.9 | 47.3 | 92.7 | 254.6 | 354.4 | 207.8 | 118.0 | 41.9 | 32.2 |
| 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° | 522.3 | 522.3 | 522.3 | 522.3 | 522.3 | 522.3 | 522.3 | 522.3 | 522.3 | 522.3 | 522.3 |
| 2.5° | 636.6 | 633.5 | 591.3 | 596.7 | 605.8 | 608.1 | 607.8 | 592.4 | 576.2 | 621.5 | 620.1 |
| 5° | 810.8 | 782.6 | 761.5 | 756.9 | 731.0 | 705.0 | 714.2 | 711.0 | 707.0 | 727.6 | 730.1 |
| 7.5° | 936.3 | 897.2 | 872.7 | 809.7 | 749.8 | 697.9 | 714.5 | 719.6 | 709.3 | 746.4 | 757.5 |
| 10° | 969.3 | 938.5 | 912.0 | 831.1 | 798.0 | 767.8 | 723.0 | 672.0 | 665.1 | 643.8 | 646.3 |
| 12.5° | 1054.6 | 1050.3 | 959.9 | 888.7 | 845.6 | 785.4 | 688.8 | 626.9 | 573.9 | 576.5 | 561.1 |
| 15° | 1121.9 | 1124.1 | 1015.5 | 915.7 | 800.3 | 708.5 | 594.7 | 517.7 | 463.3 | 452.5 | 441.3 |
| 17.5° | 1212.2 | 1207.7 | 1020.1 | 883.2 | 737.0 | 602.4 | 463.0 | 386.6 | 377.5 | 383.7 | 374.0 |
| 20° | 1251.6 | 1211.4 | 991.0 | 802.6 | 638.1 | 457.6 | 349.8 | 309.3 | 327.0 | 352.1 | 352.7 |
| 22.5° | 1286.9 | 1218.2 | 975.9 | 737.5 | 506.3 | 332.7 | 280.8 | 273.4 | 294.2 | 328.1 | 331.0 |
| 25° | 1285.5 | 1249.9 | 948.8 | 672.0 | 392.6 | 259.7 | 244.0 | 249.5 | 274.3 | 309.6 | 311.6 |
| 27.5° | 1350.2 | 1225.6 | 878.4 | 585.9 | 295.6 | 222.4 | 226.4 | 236.3 | 248.0 | 281.7 | 288.2 |
| 30° | 1349.7 | 1270.7 | 843.0 | 481.2 | 237.5 | 203.8 | 214.1 | 222.7 | 232.4 | 263.1 | 266.9 |
| 32.5° | 1381.6 | 1241.3 | 821.7 | 374.3 | 213.0 | 199.3 | 201.8 | 210.4 | 224.4 | 245.2 | 247.8 |
| 35° | 1420.1 | 1274.7 | 753.2 | 297.4 | 203.8 | 195.3 | 197.3 | 202.1 | 215.0 | 234.1 | 236.6 |
| 37.5° | 1543.5 | 1280.9 | 726.1 | 250.6 | 203.3 | 193.6 | 193.3 | 195.9 | 210.4 | 227.8 | 235.5 |
| 40° | 1591.7 | 1338.3 | 647.2 | 234.1 | 201.3 | 193.6 | 189.6 | 191.0 | 203.0 | 225.2 | 231.2 |
| 42.5° | 1707.2 | 1357.4 | 588.7 | 228.4 | 201.3 | 190.2 | 183.9 | 186.2 | 200.1 | 219.8 | 229.2 |
| 45° | 1826.1 | 1384.4 | 519.2 | 227.2 | 201.0 | 189.9 | 177.9 | 183.0 | 194.4 | 211.0 | 221.2 |
| 47.5° | 1995.4 | 1481.9 | 449.6 | 223.8 | 198.7 | 191.3 | 176.5 | 176.2 | 186.2 | 200.4 | 210.1 |
| 50° | 2271.7 | 1634.2 | 395.7 | 219.5 | 199.0 | 190.2 | 173.6 | 169.6 | 176.2 | 188.7 | 198.1 |
| 52.5° | 2656.3 | 1893.6 | 374.6 | 217.2 | 196.7 | 185.6 | 168.8 | 162.5 | 166.2 | 176.2 | 185.3 |
| 55° | 3102.7 | 2244.0 | 395.4 | 217.2 | 192.2 | 178.5 | 161.9 | 154.5 | 156.5 | 163.4 | 172.2 |
| 57.5° | 3624.5 | 2679.4 | 496.1 | 214.1 | 186.5 | 169.9 | 153.7 | 145.1 | 145.7 | 151.7 | 159.7 |
| 60° | 4169.3 | 3165.7 | 721.6 | 211.5 | 182.5 | 160.5 | 144.0 | 135.1 | 134.3 | 140.0 | 147.1 |
| 62.5° | 4715.0 | 3614.5 | 958.8 | 217.5 | 181.3 | 152.5 | 133.7 | 124.9 | 124.6 | 129.7 | 135.7 |
| 65° | 5148.9 | 3921.2 | 1017.8 | 241.8 | 188.7 | 143.4 | 123.2 | 114.9 | 114.3 | 118.6 | 125.2 |
| 67.5° | 5361.8 | 3965.7 | 773.2 | 272.0 | 204.4 | 134.9 | 112.9 | 105.2 | 104.6 | 109.2 | 114.9 |
| 70° | 5204.2 | 3661.8 | 477.3 | 275.1 | 203.6 | 124.9 | 102.4 | 95.8 | 94.7 | 99.5 | 103.8 |
| 72.5° | 4620.9 | 3203.1 | 362.6 | 243.5 | 176.2 | 110.6 | 91.8 | 86.1 | 84.4 | 88.7 | 92.7 |
| 75° | 3708.8 | 2543.1 | 290.5 | 196.4 | 138.8 | 93.2 | 81.3 | 75.8 | 73.8 | 77.8 | 81.3 |
| 77.5° | 2160.5 | 1430.6 | 212.4 | 153.4 | 104.9 | 76.1 | 69.3 | 64.4 | 62.2 | 66.4 | 69.0 |
| 80° | 702.5 | 476.7 | 133.4 | 110.0 | 76.7 | 59.6 | 56.2 | 52.7 | 50.5 | 53.3 | 54.2 |
| 82.5° | 252.3 | 177.3 | 73.8 | 67.6 | 51.0 | 42.8 | 42.5 | 40.5 | 37.6 | 38.8 | 38.8 |
| 85° | 111.8 | 81.0 | 43.9 | 36.2 | 30.5 | 22.8 | 26.8 | 25.4 | 22.5 | 22.0 | 21.1 |
| 87.5° | 31.4 | 26.8 | 16.0 | 12.3 | 10.0 | 3.7 | 8.6 | 7.7 | 6.3 | 5.7 | 4.0 |
| 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)