

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: P143867

Luminaire Tested: **OVH-F03-LED-E-U-5MQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P143867
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33697)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: OVH-F03-LED-E-U-5MQ-7060
Description: OVH LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (21) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7897.3 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

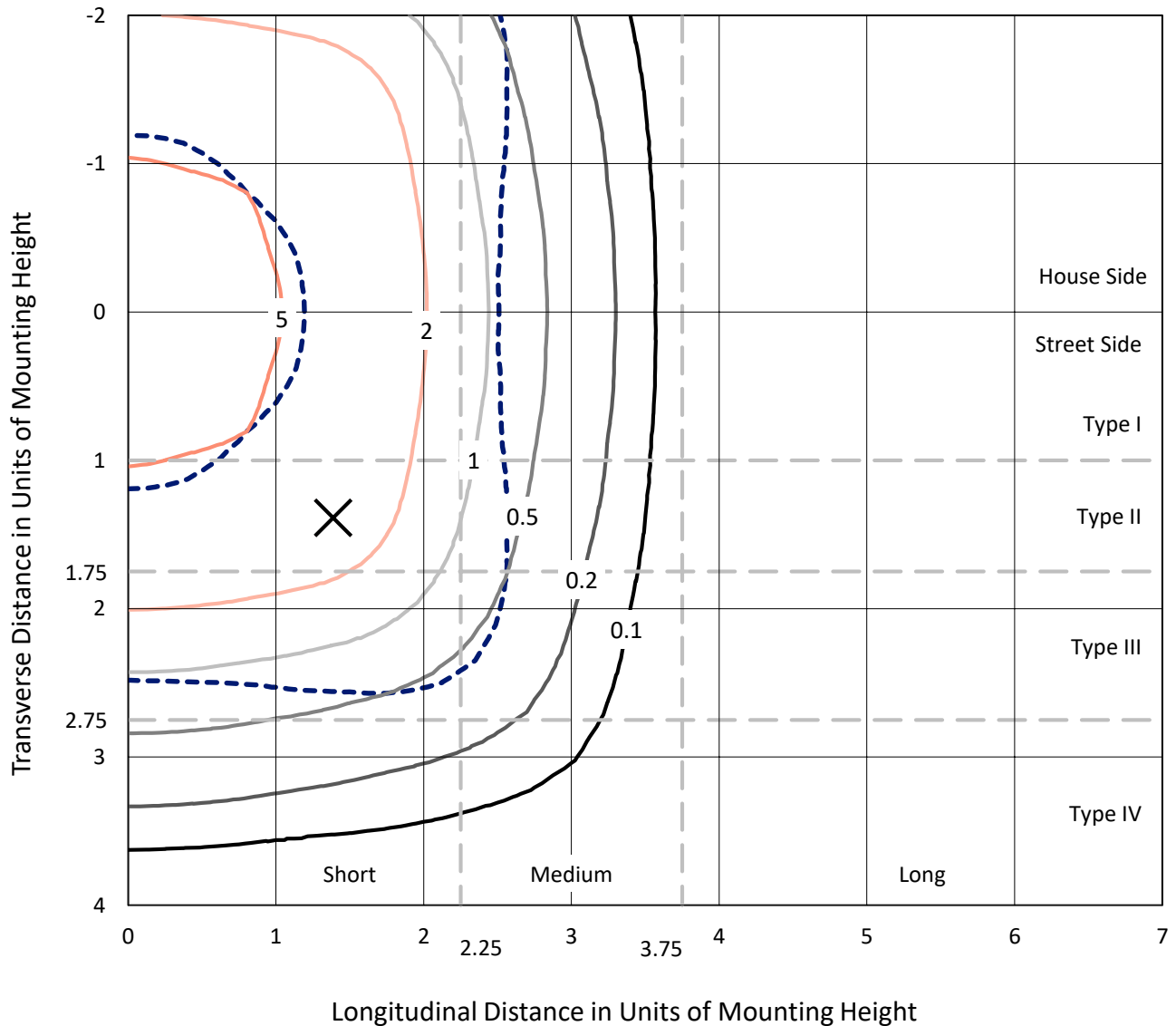
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

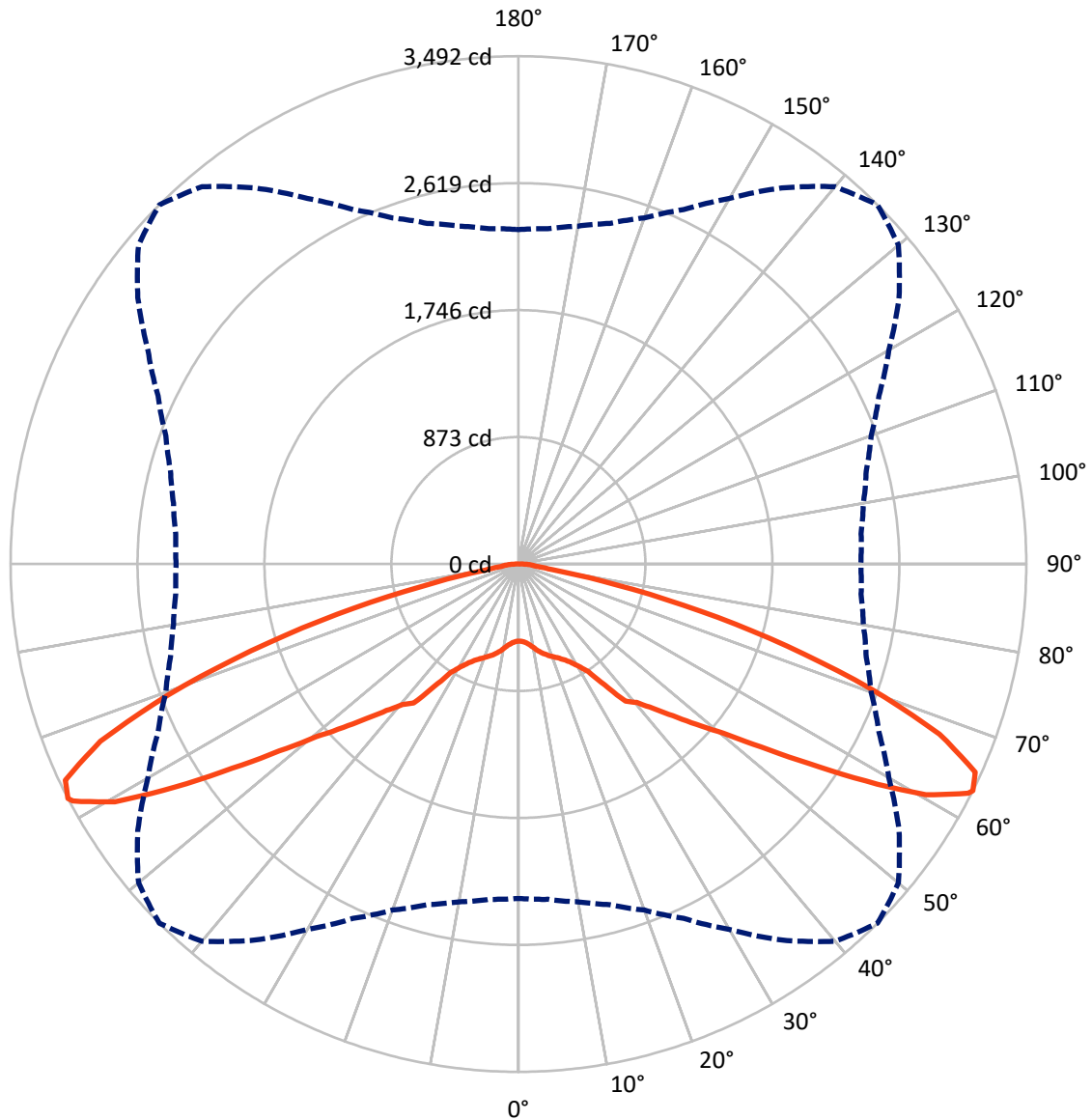
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical



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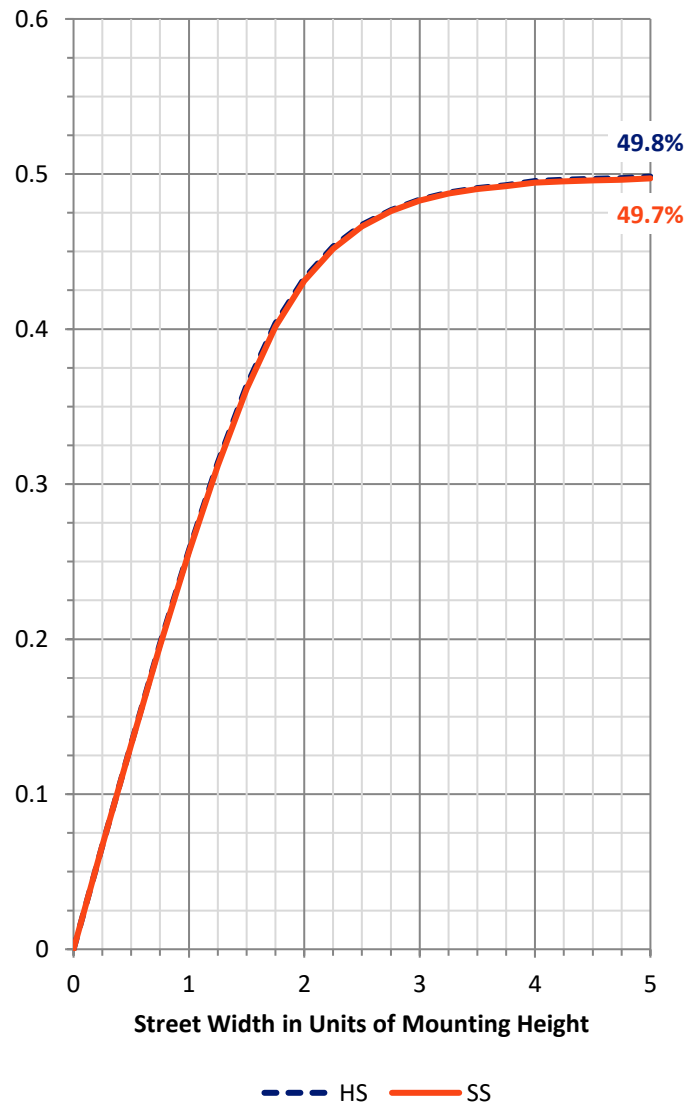
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3948.6 | 0.0 | 3948.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3948.6 | 0.0 | 3948.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 7897.3 | 0.0 | 7897.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 53.4 | 0.7 |
| 10°-20° | 182.3 | 2.3 |
| 20°-30° | 348.2 | 4.4 |
| 30°-40° | 663.4 | 8.4 |
| 40°-50° | 1142.4 | 14.5 |
| 50°-60° | 2041.4 | 25.8 |
| 60°-70° | 2486.5 | 31.5 |
| 70°-80° | 885.7 | 11.2 |
| 80°-90° | 93.9 | 1.2 |
| 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° | 7897.3 | 100.0 |
| 0°-180° | 7897.3 | 100.0 |



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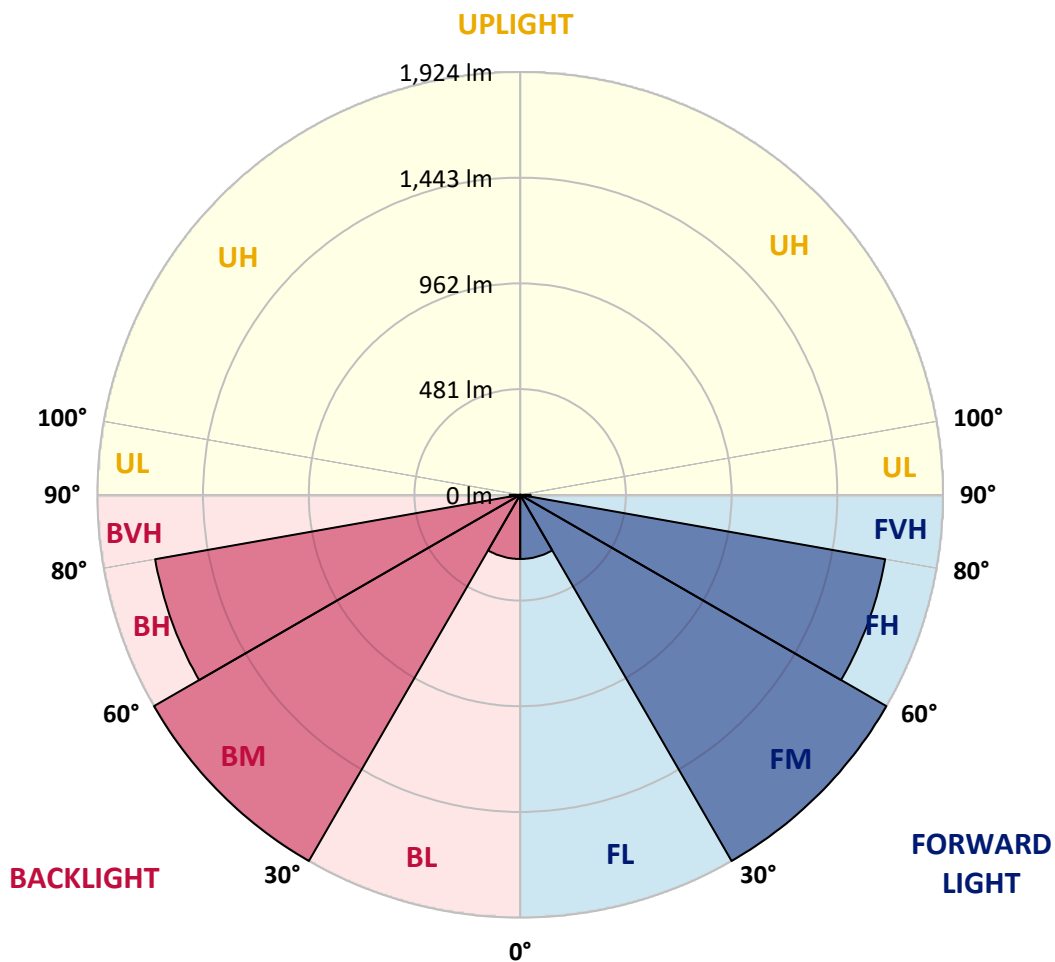
CATALOG NUMBER: OVH-F03-LED-E-U-5MQ-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 292.0 | 3.7 | | | |
| FM | (30°-60°) | 1923.6 | 24.4 | | | |
| FH | (60°-80°) | 1686.1 | 21.4 | | | G1/1800 |
| FVH | (80°-90°) | 47.0 | 0.6 | | | G1/100 |
| BL | (0°-30°) | 292.0 | 3.7 | B1/500 | | |
| BM | (30°-60°) | 1923.6 | 24.4 | B2/2500 | | |
| BH | (60°-80°) | 1686.1 | 21.4 | B3/2500 | | G1/1800 |
| BVH | (80°-90°) | 47.0 | 0.6 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 530.1 | 530.1 | 530.1 | 530.1 | 530.1 | 530.1 | 530.1 | 530.1 | 530.1 | 530.1 | 530.1 |
| 2.5° | 534.2 | 533.7 | 534.2 | 533.1 | 533.1 | 532.6 | 532.6 | 532.6 | 531.6 | 532.6 | 531.6 |
| 5° | 545.3 | 544.8 | 545.3 | 544.3 | 544.3 | 543.3 | 543.3 | 543.3 | 542.3 | 543.3 | 542.8 |
| 7.5° | 564.7 | 565.7 | 564.7 | 563.6 | 563.6 | 562.6 | 562.1 | 562.1 | 561.6 | 561.1 | 562.1 |
| 10° | 591.6 | 592.6 | 591.1 | 590.1 | 589.6 | 589.1 | 588.0 | 587.5 | 587.5 | 585.5 | 586.0 |
| 12.5° | 620.1 | 620.1 | 618.5 | 618.0 | 618.0 | 617.0 | 615.0 | 614.5 | 614.5 | 613.5 | 612.4 |
| 15° | 645.5 | 645.5 | 644.5 | 642.4 | 642.9 | 641.4 | 639.9 | 638.9 | 638.9 | 637.8 | 636.8 |
| 17.5° | 668.9 | 668.9 | 667.3 | 665.3 | 664.3 | 663.8 | 661.7 | 660.7 | 660.7 | 659.7 | 658.7 |
| 20° | 692.2 | 693.2 | 690.7 | 688.7 | 686.6 | 684.6 | 682.6 | 681.6 | 680.0 | 680.5 | 680.0 |
| 22.5° | 720.2 | 720.7 | 716.6 | 714.1 | 710.0 | 707.5 | 704.4 | 703.4 | 701.4 | 701.4 | 702.4 |
| 25° | 755.8 | 755.3 | 750.7 | 746.1 | 741.5 | 736.4 | 731.9 | 730.9 | 728.8 | 728.3 | 728.8 |
| 27.5° | 802.5 | 802.0 | 796.4 | 790.3 | 784.2 | 776.6 | 771.0 | 768.0 | 766.4 | 764.4 | 765.4 |
| 30° | 860.0 | 861.0 | 854.4 | 847.2 | 839.6 | 830.5 | 823.4 | 819.3 | 816.2 | 814.2 | 815.2 |
| 32.5° | 976.8 | 975.8 | 965.7 | 950.4 | 934.2 | 912.8 | 895.5 | 888.4 | 882.8 | 880.8 | 882.3 |
| 35° | 1094.3 | 1093.2 | 1089.2 | 1084.6 | 1080.5 | 1066.8 | 1054.1 | 1039.4 | 1027.2 | 1019.5 | 1021.6 |
| 37.5° | 1149.7 | 1149.7 | 1146.6 | 1145.6 | 1145.6 | 1153.7 | 1163.9 | 1182.2 | 1196.4 | 1197.4 | 1192.9 |
| 40° | 1236.1 | 1236.1 | 1231.0 | 1228.4 | 1226.9 | 1229.4 | 1236.1 | 1242.7 | 1249.8 | 1251.3 | 1246.2 |
| 42.5° | 1337.7 | 1333.1 | 1329.6 | 1324.5 | 1324.0 | 1326.5 | 1333.6 | 1341.8 | 1348.9 | 1355.0 | 1344.3 |
| 45° | 1447.5 | 1443.4 | 1439.9 | 1436.8 | 1438.8 | 1445.4 | 1455.1 | 1469.3 | 1479.5 | 1488.7 | 1480.0 |
| 47.5° | 1570.0 | 1561.3 | 1564.9 | 1561.8 | 1566.9 | 1580.1 | 1597.4 | 1618.8 | 1629.4 | 1645.7 | 1632.0 |
| 50° | 1722.4 | 1724.5 | 1722.4 | 1722.4 | 1728.5 | 1745.8 | 1771.2 | 1800.2 | 1818.5 | 1827.7 | 1819.5 |
| 52.5° | 1949.1 | 1943.0 | 1929.3 | 1933.4 | 1941.5 | 1968.9 | 2002.0 | 2042.6 | 2066.0 | 2087.9 | 2062.5 |
| 55° | 2197.1 | 2198.2 | 2196.1 | 2201.7 | 2217.5 | 2245.4 | 2287.1 | 2348.6 | 2378.1 | 2416.2 | 2385.7 |
| 57.5° | 2402.5 | 2409.6 | 2421.8 | 2438.6 | 2472.6 | 2519.4 | 2601.2 | 2695.2 | 2773.5 | 2814.7 | 2766.9 |
| 60° | 2469.1 | 2476.2 | 2505.6 | 2552.4 | 2616.4 | 2712.0 | 2844.6 | 3005.8 | 3146.5 | 3219.7 | 3157.2 |
| 62.5° | 2341.0 | 2354.2 | 2397.9 | 2462.4 | 2568.2 | 2717.6 | 2914.8 | 3153.2 | 3370.2 | 3470.3 | 3394.6 |
| 63° | 2299.3 | 2314.0 | 2358.8 | 2424.3 | 2532.1 | 2688.1 | 2901.1 | 3156.2 | 3385.9 | 3491.6 | 3409.8 |
| 65° | 2114.3 | 2124.0 | 2171.2 | 2245.9 | 2365.9 | 2528.5 | 2765.4 | 3067.3 | 3329.0 | 3451.5 | 3364.6 |
| 67.5° | 1823.1 | 1835.8 | 1879.0 | 1943.5 | 2059.9 | 2232.2 | 2465.0 | 2765.9 | 3023.6 | 3121.6 | 3047.4 |
| 70° | 1462.2 | 1476.5 | 1512.0 | 1572.0 | 1663.5 | 1823.1 | 2022.3 | 2303.4 | 2497.0 | 2573.8 | 2494.5 |
| 72.5° | 1027.7 | 1033.8 | 1059.7 | 1122.7 | 1191.3 | 1318.4 | 1476.5 | 1695.0 | 1881.0 | 1931.3 | 1855.1 |
| 75° | 435.1 | 435.6 | 469.6 | 509.8 | 595.7 | 722.2 | 860.0 | 1048.0 | 1215.2 | 1293.5 | 1196.9 |
| 77.5° | 139.3 | 140.8 | 150.4 | 165.2 | 193.6 | 250.1 | 351.7 | 454.9 | 608.4 | 682.6 | 592.1 |
| 80° | 116.4 | 118.4 | 122.5 | 125.5 | 127.6 | 130.6 | 142.3 | 158.6 | 199.7 | 232.3 | 187.5 |
| 82.5° | 100.1 | 103.7 | 112.8 | 116.4 | 118.4 | 119.4 | 121.0 | 120.5 | 117.9 | 116.9 | 117.4 |
| 85° | 76.2 | 84.9 | 95.0 | 103.2 | 104.2 | 104.7 | 107.7 | 108.8 | 100.6 | 92.5 | 100.6 |
| 87.5° | 33.0 | 42.7 | 65.6 | 72.7 | 71.2 | 66.1 | 70.6 | 74.7 | 68.1 | 49.8 | 66.6 |
| 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):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 530.1 | 530.1 | 530.1 | 530.1 | 530.1 | 530.1 | 530.1 | 530.1 |
| 2.5° | 532.1 | 533.1 | 533.1 | 533.1 | 533.1 | 533.7 | 534.2 | 533.7 |
| 5° | 543.3 | 544.3 | 543.8 | 544.3 | 544.3 | 544.8 | 545.3 | 544.8 |
| 7.5° | 562.6 | 562.6 | 562.6 | 563.6 | 563.6 | 564.7 | 564.7 | 564.7 |
| 10° | 586.5 | 586.0 | 586.0 | 587.0 | 588.0 | 588.5 | 589.6 | 589.1 |
| 12.5° | 612.4 | 611.4 | 611.9 | 612.9 | 614.0 | 614.5 | 615.5 | 615.0 |
| 15° | 635.8 | 635.3 | 635.3 | 636.8 | 637.3 | 637.8 | 639.9 | 639.9 |
| 17.5° | 658.2 | 658.2 | 658.2 | 660.2 | 660.7 | 662.8 | 664.3 | 664.3 |
| 20° | 680.5 | 680.5 | 680.5 | 682.6 | 684.1 | 687.1 | 690.2 | 689.7 |
| 22.5° | 703.4 | 703.9 | 704.9 | 707.0 | 710.5 | 715.1 | 717.6 | 717.6 |
| 25° | 731.9 | 733.9 | 735.9 | 739.0 | 744.1 | 750.2 | 754.2 | 755.8 |
| 27.5° | 768.5 | 773.0 | 778.1 | 782.7 | 788.3 | 795.9 | 801.5 | 802.5 |
| 30° | 818.3 | 824.9 | 833.0 | 839.1 | 846.2 | 854.9 | 861.5 | 865.0 |
| 32.5° | 888.9 | 905.2 | 915.9 | 937.7 | 950.9 | 965.7 | 977.9 | 982.9 |
| 35° | 1034.3 | 1050.5 | 1064.8 | 1079.5 | 1082.6 | 1087.6 | 1094.3 | 1095.8 |
| 37.5° | 1178.1 | 1164.9 | 1152.2 | 1151.7 | 1148.1 | 1149.1 | 1151.2 | 1153.7 |
| 40° | 1240.6 | 1236.6 | 1230.0 | 1232.5 | 1233.0 | 1233.0 | 1237.1 | 1237.6 |
| 42.5° | 1341.3 | 1331.6 | 1324.0 | 1330.1 | 1331.1 | 1332.1 | 1336.2 | 1340.8 |
| 45° | 1469.3 | 1454.6 | 1444.9 | 1441.4 | 1444.9 | 1443.9 | 1449.5 | 1450.5 |
| 47.5° | 1615.7 | 1596.4 | 1574.5 | 1567.4 | 1565.4 | 1560.8 | 1570.5 | 1569.5 |
| 50° | 1795.1 | 1764.1 | 1737.7 | 1727.5 | 1722.4 | 1719.9 | 1722.4 | 1722.4 |
| 52.5° | 2022.3 | 1991.3 | 1955.2 | 1943.5 | 1939.5 | 1945.1 | 1936.9 | 1945.6 |
| 55° | 2334.9 | 2284.6 | 2235.3 | 2219.5 | 2217.0 | 2214.4 | 2215.4 | 2219.0 |
| 57.5° | 2686.6 | 2597.1 | 2531.1 | 2492.4 | 2467.5 | 2455.3 | 2442.1 | 2440.1 |
| 60° | 3026.1 | 2863.5 | 2737.9 | 2652.5 | 2592.1 | 2546.3 | 2522.9 | 2514.8 |
| 62.5° | 3189.7 | 2951.9 | 2756.7 | 2611.4 | 2521.4 | 2446.7 | 2405.5 | 2394.9 |
| 63° | 3194.3 | 2940.7 | 2733.9 | 2580.4 | 2475.7 | 2408.6 | 2364.9 | 2353.7 |
| 65° | 3109.4 | 2820.8 | 2578.3 | 2409.6 | 2298.8 | 2228.7 | 2174.8 | 2163.1 |
| 67.5° | 2800.4 | 2520.4 | 2272.4 | 2101.1 | 1981.1 | 1924.7 | 1865.3 | 1863.7 |
| 70° | 2298.3 | 2048.2 | 1839.3 | 1681.8 | 1581.7 | 1525.8 | 1465.3 | 1466.8 |
| 72.5° | 1680.3 | 1458.2 | 1314.3 | 1191.3 | 1085.6 | 1032.8 | 975.8 | 981.4 |
| 75° | 1011.4 | 813.2 | 683.6 | 576.9 | 468.1 | 403.0 | 359.3 | 334.4 |
| 77.5° | 432.5 | 295.8 | 212.4 | 168.7 | 142.3 | 131.6 | 126.6 | 125.0 |
| 80° | 150.4 | 133.2 | 125.5 | 123.5 | 122.0 | 119.9 | 116.4 | 112.8 |
| 82.5° | 122.0 | 122.0 | 117.9 | 117.4 | 112.8 | 109.3 | 100.1 | 95.6 |
| 85° | 108.3 | 106.2 | 102.7 | 101.1 | 100.1 | 92.5 | 80.8 | 74.7 |
| 87.5° | 71.7 | 66.6 | 63.5 | 65.1 | 63.0 | 56.4 | 34.6 | 27.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)