

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: McGRAW-EDISON

Report Number: P157226

Luminaire Tested: **VTS-F03-LED-E1-5MQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157226
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33708)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-F03-LED-E1-5MQ-7050
Description: VENTUS LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

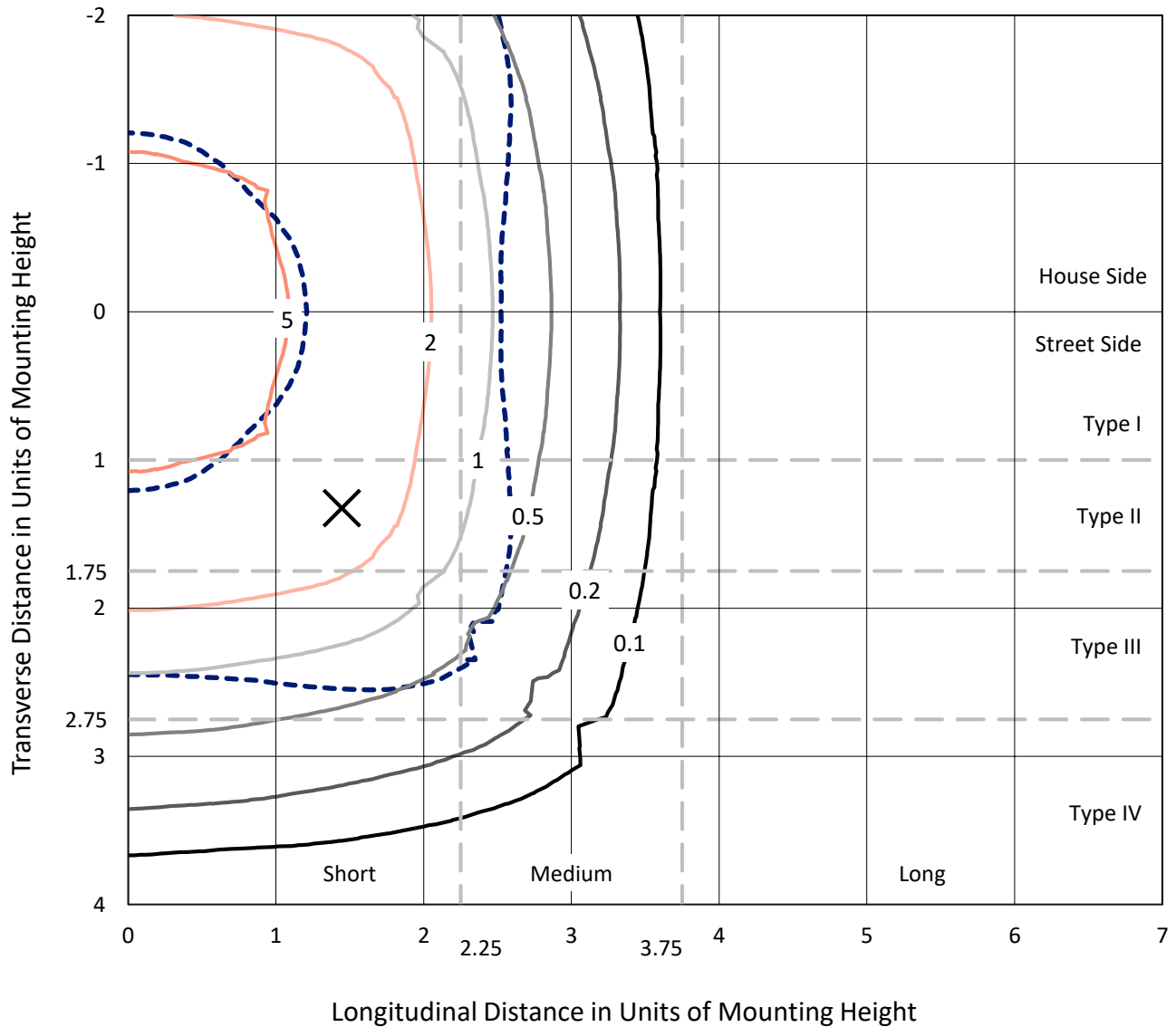
Lumens per Lamp: N/A
Luminaire Lumens: 8129 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

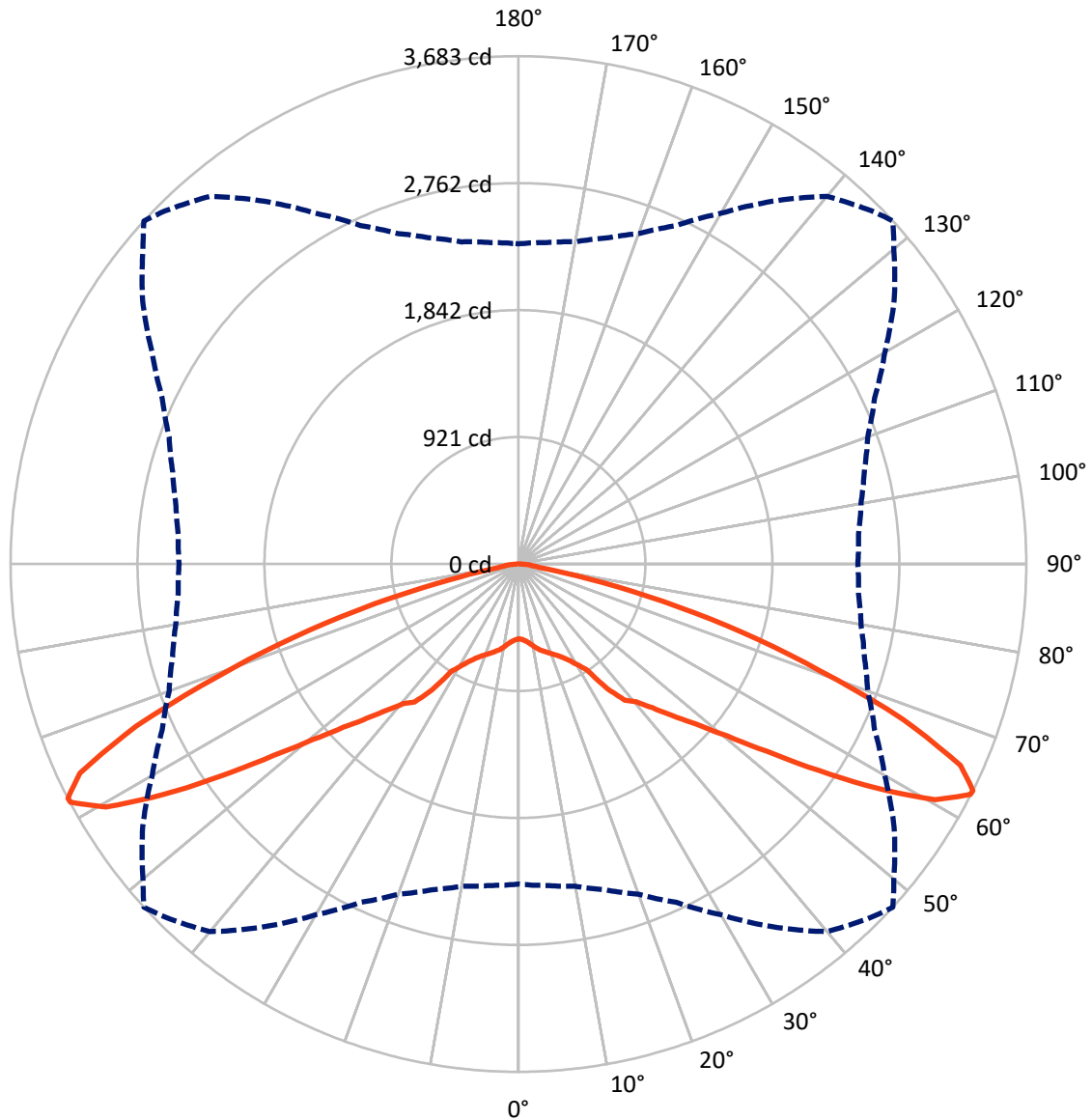
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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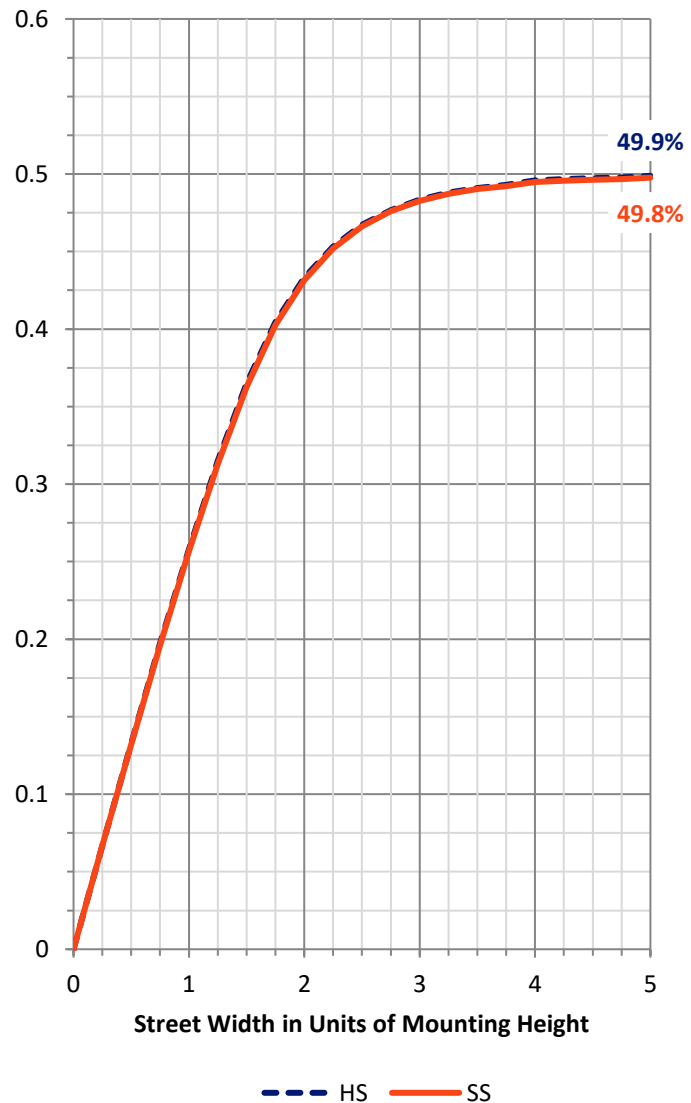
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4064.5 | 0.0 | 4064.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4064.5 | 0.0 | 4064.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 8129.0 | 0.0 | 8129.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 54.5 | 0.7 |
| 10°-20° | 185.2 | 2.3 |
| 20°-30° | 354.3 | 4.4 |
| 30°-40° | 677.8 | 8.3 |
| 40°-50° | 1172.8 | 14.4 |
| 50°-60° | 2106.3 | 25.9 |
| 60°-70° | 2561.3 | 31.5 |
| 70°-80° | 925.0 | 11.4 |
| 80°-90° | 91.6 | 1.1 |
| 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° | 8129.0 | 100.0 |
| 0°-180° | 8129.0 | 100.0 |

Coefficient of Utilization



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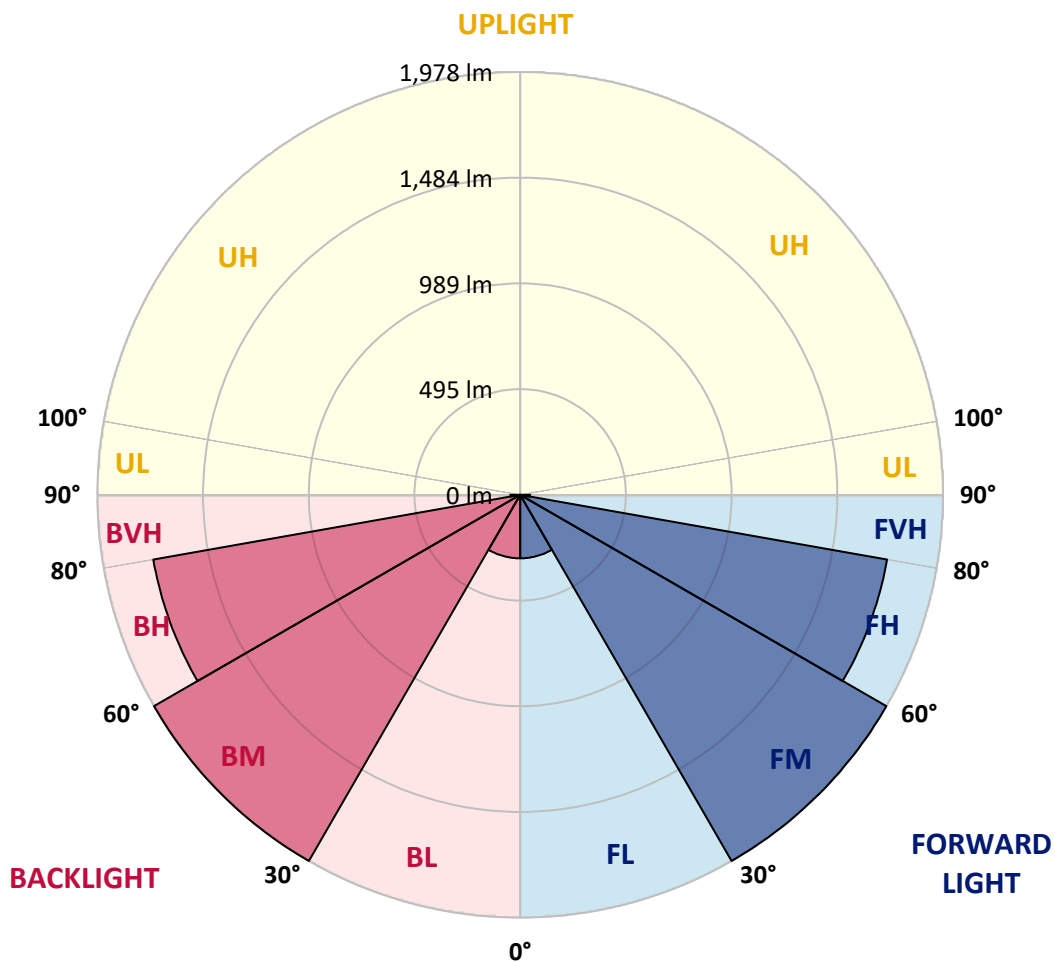
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 297.0 | 3.7 | | | |
| FM | (30°-60°) | 1978.5 | 24.3 | | | |
| FH | (60°-80°) | 1743.2 | 21.4 | | | G1/1800 |
| FVH | (80°-90°) | 45.8 | 0.6 | | | G1/100 |
| BL | (0°-30°) | 297.0 | 3.7 | B1/500 | | |
| BM | (30°-60°) | 1978.5 | 24.3 | B2/2500 | | |
| BH | (60°-80°) | 1743.2 | 21.4 | B3/2500 | | G1/1800 |
| BVH | (80°-90°) | 45.8 | 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° | 47.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 542.8 | 542.8 | 542.8 | 542.8 | 542.8 | 542.8 | 542.8 | 542.8 | 542.8 | 542.8 | 542.8 |
| 2.5° | 546.4 | 545.3 | 545.9 | 546.4 | 545.9 | 545.3 | 545.3 | 545.3 | 546.4 | 545.3 | 547.9 |
| 5° | 557.0 | 556.0 | 556.5 | 556.5 | 556.5 | 555.5 | 555.5 | 555.5 | 555.0 | 555.5 | 561.1 |
| 7.5° | 577.4 | 575.8 | 575.3 | 576.4 | 575.3 | 574.8 | 574.3 | 574.3 | 573.3 | 573.3 | 580.4 |
| 10° | 601.8 | 599.7 | 600.7 | 601.3 | 599.7 | 598.7 | 598.7 | 598.7 | 597.2 | 596.7 | 605.8 |
| 12.5° | 628.7 | 627.7 | 627.7 | 626.7 | 626.2 | 625.1 | 624.6 | 625.1 | 623.1 | 623.1 | 632.3 |
| 15° | 654.6 | 652.6 | 653.1 | 651.6 | 650.6 | 649.5 | 649.0 | 648.5 | 647.5 | 647.5 | 653.1 |
| 17.5° | 678.5 | 677.0 | 676.5 | 674.9 | 673.4 | 671.9 | 670.9 | 670.4 | 668.9 | 668.9 | 673.9 |
| 20° | 703.4 | 701.9 | 700.9 | 698.3 | 695.8 | 694.3 | 692.2 | 691.2 | 689.2 | 689.7 | 695.3 |
| 22.5° | 731.9 | 729.3 | 727.3 | 725.3 | 720.7 | 717.6 | 715.1 | 713.1 | 712.1 | 712.1 | 719.7 |
| 25° | 770.0 | 768.5 | 765.4 | 758.8 | 753.2 | 748.6 | 744.6 | 742.5 | 740.5 | 739.5 | 751.2 |
| 27.5° | 816.8 | 815.2 | 811.2 | 804.6 | 796.9 | 789.3 | 784.7 | 781.2 | 778.6 | 777.1 | 793.9 |
| 30° | 878.8 | 876.2 | 872.7 | 862.0 | 855.4 | 843.7 | 838.6 | 833.5 | 827.9 | 829.5 | 849.3 |
| 32.5° | 1000.2 | 996.7 | 985.5 | 973.8 | 953.5 | 937.7 | 921.4 | 909.3 | 897.6 | 896.0 | 917.4 |
| 35° | 1110.5 | 1109.0 | 1107.0 | 1098.8 | 1091.2 | 1081.5 | 1073.9 | 1061.2 | 1050.5 | 1048.0 | 1108.0 |
| 37.5° | 1170.0 | 1173.5 | 1170.5 | 1169.5 | 1169.5 | 1174.0 | 1188.3 | 1202.5 | 1212.7 | 1218.8 | 1252.3 |
| 40° | 1261.0 | 1261.0 | 1257.4 | 1255.4 | 1251.3 | 1257.4 | 1263.5 | 1274.2 | 1278.7 | 1279.3 | 1313.3 |
| 42.5° | 1364.1 | 1364.6 | 1361.1 | 1355.0 | 1352.9 | 1358.5 | 1366.7 | 1376.8 | 1382.9 | 1384.5 | 1424.1 |
| 45° | 1479.0 | 1477.5 | 1474.4 | 1472.4 | 1473.9 | 1479.0 | 1488.7 | 1508.5 | 1517.6 | 1524.7 | 1567.9 |
| 47.5° | 1603.5 | 1613.7 | 1605.0 | 1606.6 | 1606.6 | 1622.3 | 1644.2 | 1660.4 | 1675.2 | 1688.9 | 1734.6 |
| 50° | 1766.7 | 1768.2 | 1769.7 | 1774.3 | 1777.3 | 1798.2 | 1825.6 | 1844.9 | 1866.3 | 1884.1 | 1958.8 |
| 52.5° | 1984.7 | 1981.6 | 1989.3 | 1994.4 | 2011.6 | 2022.8 | 2068.6 | 2093.0 | 2122.4 | 2145.3 | 2254.6 |
| 55° | 2245.4 | 2243.9 | 2255.1 | 2259.2 | 2282.0 | 2309.5 | 2360.3 | 2413.7 | 2464.0 | 2491.9 | 2641.4 |
| 57.5° | 2432.5 | 2436.5 | 2455.8 | 2482.8 | 2527.5 | 2586.0 | 2661.7 | 2779.6 | 2875.1 | 2905.6 | 3070.3 |
| 60° | 2473.6 | 2486.8 | 2515.8 | 2569.7 | 2646.4 | 2755.2 | 2904.1 | 3084.5 | 3259.4 | 3317.8 | 3472.3 |
| 62.5° | 2358.3 | 2373.5 | 2416.2 | 2480.7 | 2580.9 | 2742.0 | 2957.0 | 3211.6 | 3471.3 | 3601.4 | 3679.2 |
| 63° | 2321.7 | 2340.5 | 2372.5 | 2447.2 | 2548.9 | 2707.9 | 2936.6 | 3211.1 | 3480.5 | 3622.3 | 3683.3 |
| 65° | 2149.9 | 2153.4 | 2201.2 | 2275.9 | 2390.3 | 2555.5 | 2786.2 | 3103.3 | 3402.2 | 3565.8 | 3523.7 |
| 67.5° | 1850.0 | 1864.8 | 1904.9 | 1980.1 | 2091.4 | 2263.2 | 2513.8 | 2807.0 | 3069.8 | 3200.4 | 3011.9 |
| 70° | 1494.7 | 1493.7 | 1543.5 | 1604.0 | 1702.1 | 1853.1 | 2072.6 | 2337.4 | 2545.8 | 2640.8 | 2325.2 |
| 72.5° | 1067.8 | 1041.4 | 1078.0 | 1145.1 | 1225.4 | 1345.8 | 1519.7 | 1725.5 | 1912.0 | 1994.4 | 1700.1 |
| 75° | 486.4 | 479.3 | 511.8 | 578.4 | 659.7 | 766.9 | 909.8 | 1087.6 | 1266.5 | 1363.1 | 1083.1 |
| 77.5° | 163.7 | 165.7 | 178.4 | 202.3 | 246.0 | 299.9 | 388.8 | 502.7 | 647.5 | 743.1 | 508.2 |
| 80° | 109.8 | 112.8 | 116.9 | 120.5 | 125.5 | 133.7 | 153.0 | 182.5 | 227.2 | 275.0 | 160.6 |
| 82.5° | 90.0 | 93.5 | 102.7 | 106.7 | 109.8 | 112.3 | 113.8 | 115.9 | 115.9 | 116.9 | 101.6 |
| 85° | 64.5 | 70.6 | 82.8 | 90.5 | 93.5 | 95.6 | 98.1 | 101.1 | 96.6 | 92.5 | 78.8 |
| 87.5° | 22.4 | 30.5 | 44.7 | 49.3 | 52.9 | 53.4 | 56.9 | 63.0 | 60.0 | 48.8 | 23.9 |
| 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):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 542.8 | 542.8 | 542.8 | 542.8 | 542.8 | 542.8 | 542.8 | 542.8 | 542.8 |
| 2.5° | 545.3 | 544.8 | 545.3 | 545.9 | 545.9 | 545.9 | 546.4 | 546.9 | 546.9 |
| 5° | 555.5 | 556.0 | 555.5 | 556.0 | 556.0 | 556.5 | 556.5 | 557.5 | 557.5 |
| 7.5° | 572.8 | 573.8 | 573.3 | 574.3 | 574.3 | 575.3 | 574.8 | 576.4 | 576.4 |
| 10° | 596.2 | 597.2 | 598.2 | 598.7 | 598.2 | 599.2 | 600.2 | 600.7 | 600.2 |
| 12.5° | 622.6 | 623.1 | 622.6 | 623.6 | 623.6 | 624.6 | 624.6 | 626.2 | 626.2 |
| 15° | 647.0 | 646.5 | 646.0 | 647.5 | 648.5 | 649.0 | 650.0 | 651.6 | 650.0 |
| 17.5° | 668.9 | 669.4 | 668.3 | 669.9 | 671.9 | 673.4 | 674.4 | 676.5 | 676.0 |
| 20° | 690.7 | 689.7 | 690.7 | 693.2 | 695.3 | 697.3 | 699.3 | 702.4 | 701.9 |
| 22.5° | 712.1 | 713.1 | 715.6 | 717.6 | 721.2 | 724.2 | 726.8 | 730.9 | 732.4 |
| 25° | 742.0 | 742.0 | 746.1 | 748.6 | 753.7 | 757.8 | 763.4 | 768.0 | 770.5 |
| 27.5° | 780.2 | 780.2 | 784.7 | 790.3 | 797.9 | 805.1 | 811.2 | 817.3 | 816.2 |
| 30° | 832.0 | 834.5 | 838.6 | 845.7 | 855.9 | 864.5 | 872.7 | 878.8 | 879.3 |
| 32.5° | 900.1 | 903.2 | 915.3 | 933.6 | 955.0 | 971.3 | 983.5 | 998.2 | 1000.2 |
| 35° | 1054.6 | 1062.2 | 1078.0 | 1092.7 | 1101.4 | 1111.0 | 1117.1 | 1117.6 | 1118.6 |
| 37.5° | 1217.2 | 1204.0 | 1191.8 | 1180.7 | 1175.6 | 1174.6 | 1174.6 | 1176.6 | 1177.6 |
| 40° | 1276.7 | 1270.1 | 1264.5 | 1257.4 | 1259.4 | 1258.9 | 1262.5 | 1265.5 | 1267.6 |
| 42.5° | 1378.4 | 1373.3 | 1368.2 | 1359.0 | 1364.1 | 1362.6 | 1367.7 | 1372.3 | 1374.8 |
| 45° | 1520.2 | 1504.4 | 1493.2 | 1478.5 | 1483.6 | 1480.5 | 1480.5 | 1486.1 | 1487.1 |
| 47.5° | 1676.7 | 1658.4 | 1635.5 | 1617.2 | 1611.1 | 1605.5 | 1610.6 | 1610.6 | 1605.0 |
| 50° | 1864.2 | 1842.4 | 1815.5 | 1786.0 | 1775.8 | 1770.2 | 1772.3 | 1774.8 | 1759.0 |
| 52.5° | 2118.9 | 2094.5 | 2056.4 | 2011.6 | 2002.0 | 1997.4 | 1996.4 | 1992.8 | 1988.8 |
| 55° | 2464.0 | 2418.2 | 2371.5 | 2312.5 | 2294.7 | 2289.6 | 2290.2 | 2286.1 | 2295.7 |
| 57.5° | 2871.1 | 2804.0 | 2696.2 | 2624.6 | 2581.9 | 2565.6 | 2550.9 | 2544.8 | 2545.3 |
| 60° | 3274.1 | 3137.4 | 2976.3 | 2851.3 | 2761.8 | 2704.9 | 2660.2 | 2635.3 | 2628.1 |
| 62.5° | 3533.8 | 3318.8 | 3076.9 | 2874.1 | 2727.2 | 2633.2 | 2562.6 | 2517.8 | 2503.6 |
| 63° | 3554.2 | 3326.5 | 3067.8 | 2850.2 | 2695.7 | 2597.1 | 2522.9 | 2476.7 | 2461.4 |
| 65° | 3509.9 | 3249.7 | 2948.3 | 2689.1 | 2519.9 | 2410.6 | 2330.3 | 2286.6 | 2274.9 |
| 67.5° | 3166.4 | 2949.9 | 2642.9 | 2375.0 | 2204.3 | 2093.5 | 2001.5 | 1959.8 | 1946.6 |
| 70° | 2575.8 | 2427.4 | 2175.8 | 1947.1 | 1788.0 | 1681.3 | 1588.3 | 1553.7 | 1553.2 |
| 72.5° | 1909.5 | 1716.9 | 1566.9 | 1399.2 | 1260.4 | 1175.6 | 1094.8 | 1056.1 | 1036.8 |
| 75° | 1263.0 | 1056.6 | 888.9 | 747.6 | 609.4 | 533.1 | 442.2 | 403.0 | 380.2 |
| 77.5° | 636.3 | 471.7 | 338.0 | 234.3 | 182.0 | 149.4 | 136.7 | 130.1 | 129.6 |
| 80° | 211.9 | 159.1 | 136.7 | 128.1 | 125.5 | 126.0 | 124.5 | 122.0 | 118.9 |
| 82.5° | 117.4 | 123.5 | 124.5 | 121.0 | 121.0 | 118.9 | 116.9 | 107.2 | 102.2 |
| 85° | 100.6 | 110.8 | 111.8 | 109.8 | 109.3 | 106.2 | 102.7 | 89.5 | 81.8 |
| 87.5° | 63.0 | 72.7 | 71.2 | 63.5 | 70.1 | 65.6 | 62.0 | 40.2 | 29.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)