

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: P228564

Luminaire Tested: **ISC-AF-350-LED-E1-SLL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P228564  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29764)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISC-AF-350-LED-E1-SLL  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR LEFT  
Light Source: (16) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

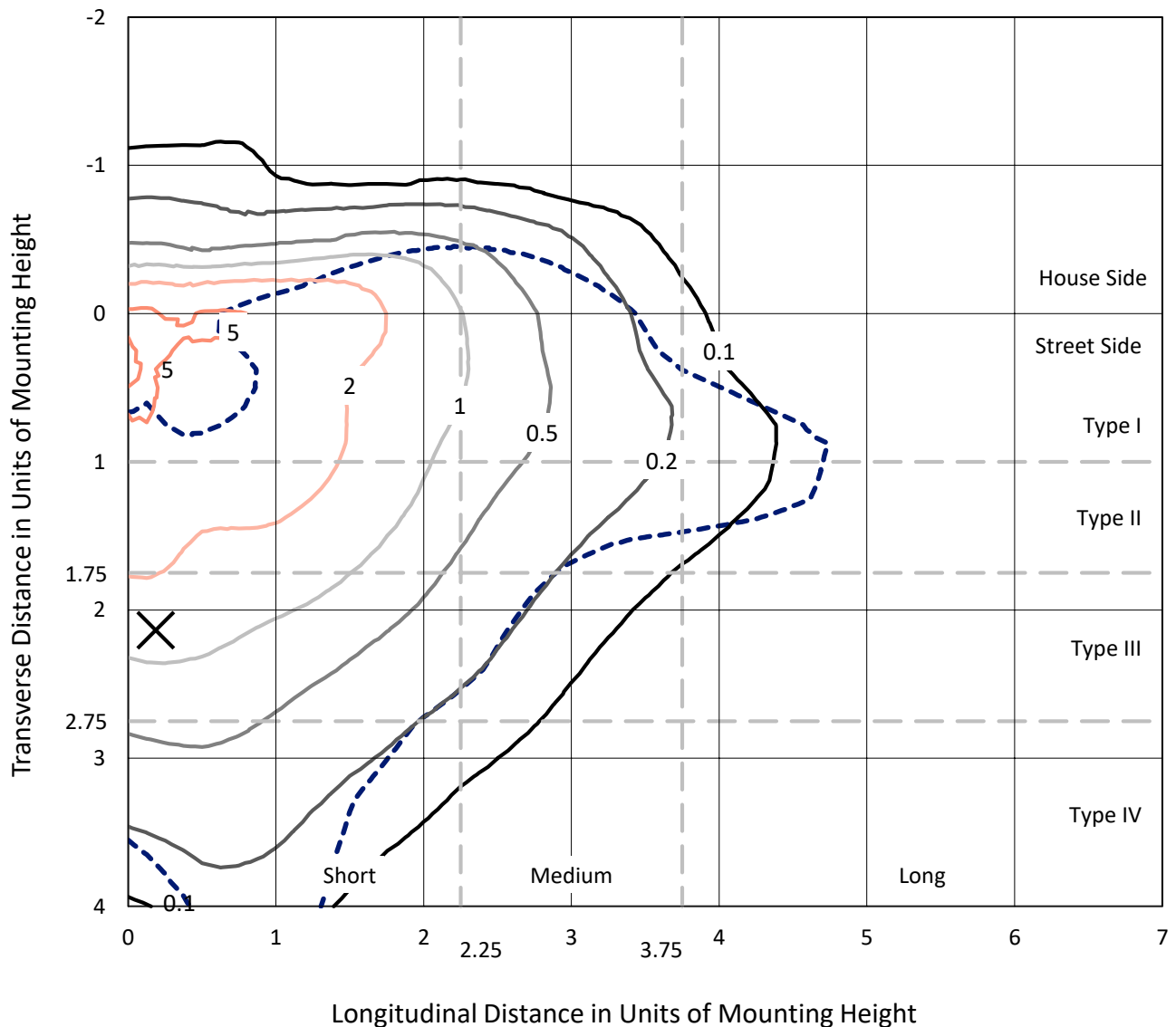
Lumens per Lamp: N/A  
Luminaire Lumens: 2035.7 lumens  
Efficiency: N/A  
Efficacy: 101.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 20.09  
Input Voltage (V): 120  
Input 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

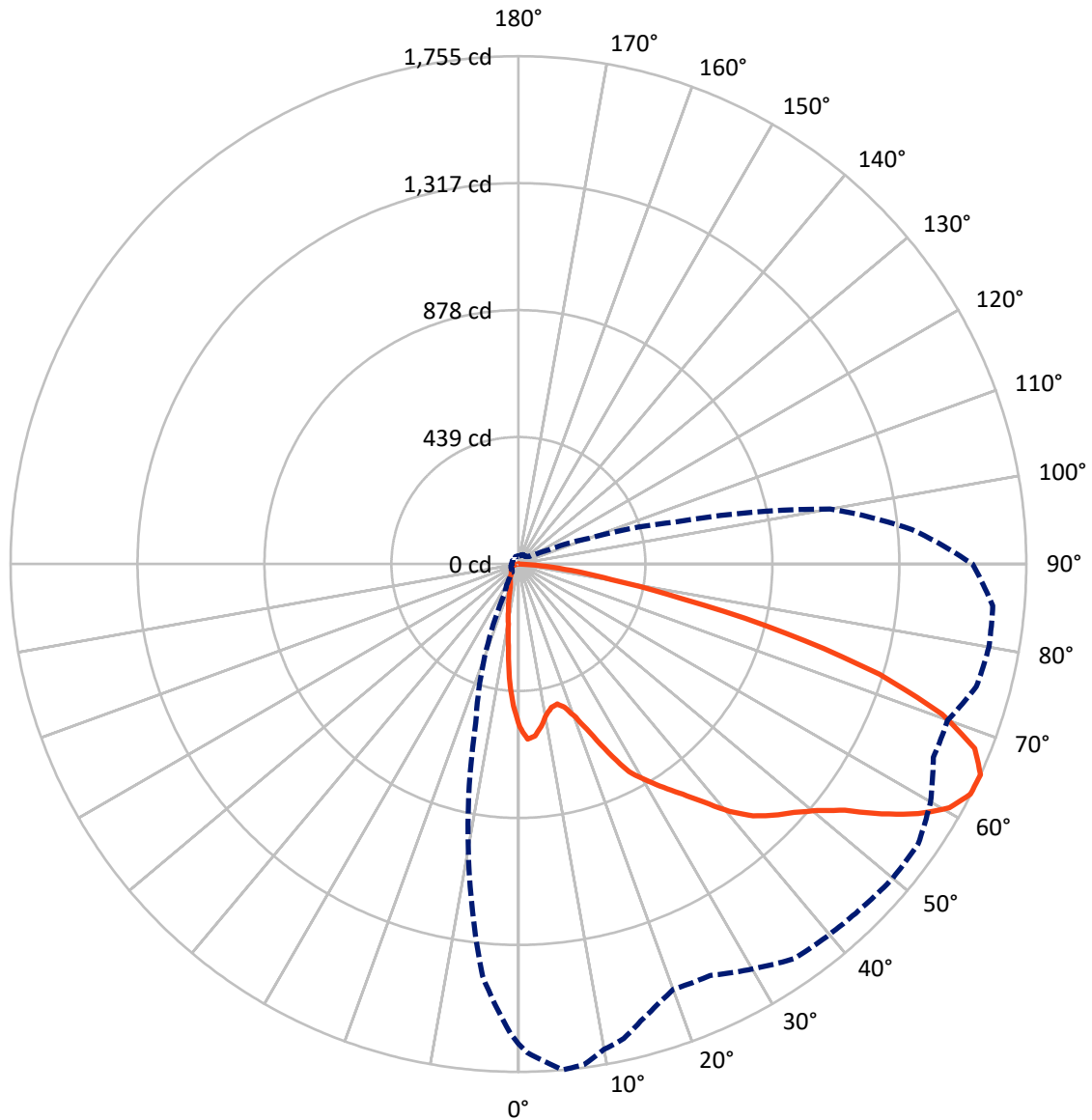


Based on 10 foot mounting height. Maximum calculated value = 7.6 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral

- - - Horizontal Cone Through 65-Deg Vertical

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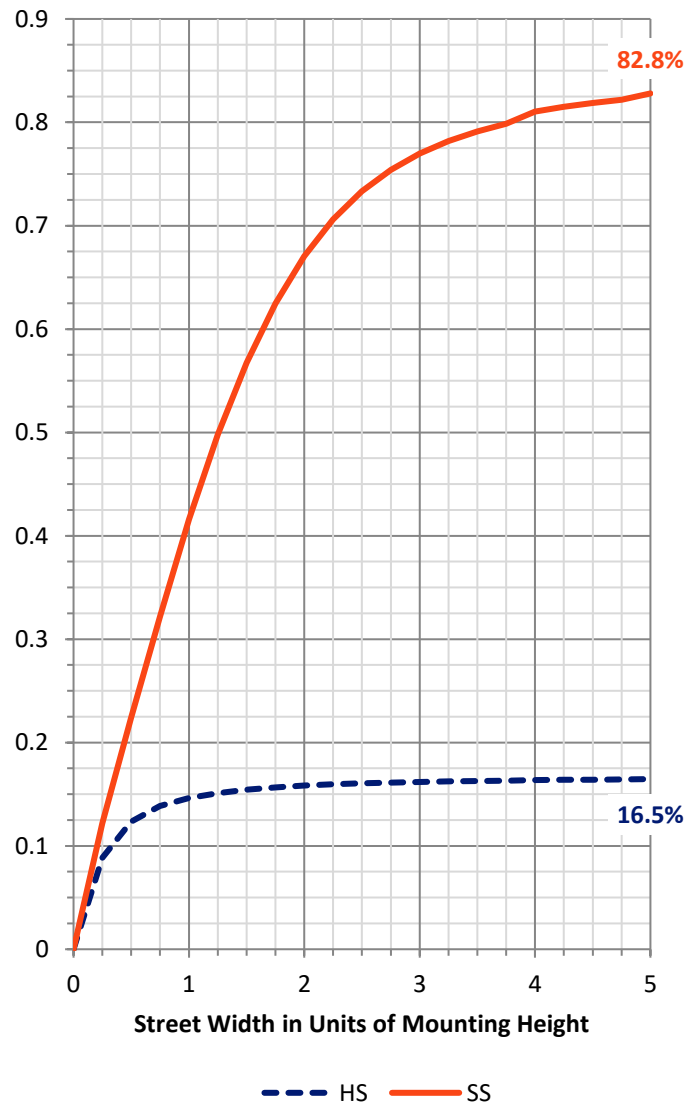
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 338.5    | 0.0    | 338.5  |
|                    | % Fixture | 16.6     | 0.0    | 16.6   |
| <b>Street Side</b> | Lumens    | 1697.2   | 0.0    | 1697.2 |
|                    | % Fixture | 83.4     | 0.0    | 83.4   |
| <b>Total</b>       | Lumens    | 2035.7   | 0.0    | 2035.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 43.2   | 2.1       |
| 10°-20°   | 89.1   | 4.4       |
| 20°-30°   | 129.6  | 6.4       |
| 30°-40°   | 191.6  | 9.4       |
| 40°-50°   | 279.2  | 13.7      |
| 50°-60°   | 418.6  | 20.6      |
| 60°-70°   | 521.6  | 25.6      |
| 70°-80°   | 305.5  | 15.0      |
| 80°-90°   | 57.1   | 2.8       |
| 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°    | 2035.7 | 100.0     |
| 0°-180°   | 2035.7 | 100.0     |



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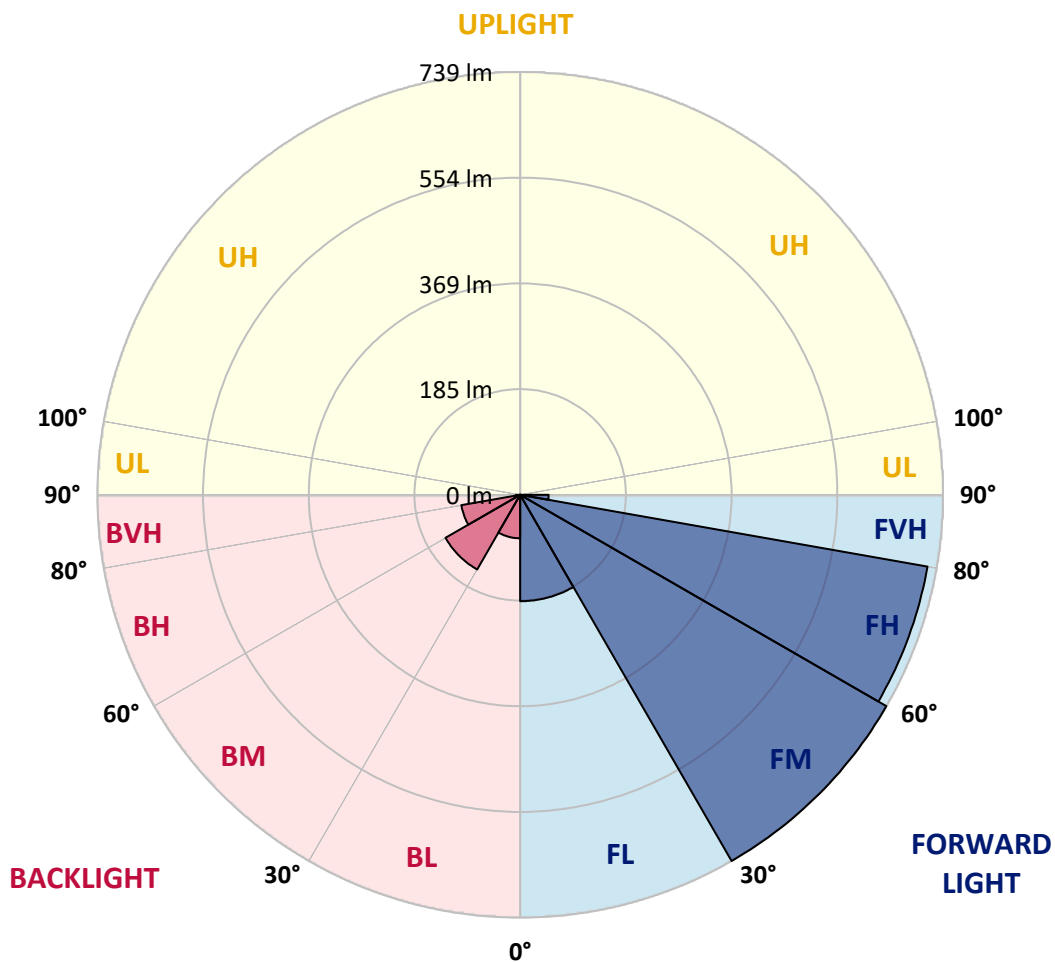
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 186.0  | 9.1       |                         |      |         |
| FM   | (30°-60°)   | 738.8  | 36.3      |                         |      |         |
| FH   | (60°-80°)   | 722.7  | 35.5      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 49.8   | 2.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 76.0   | 3.7       | B0/110                  |      |         |
| BM   | (30°-60°)   | 150.7  | 7.4       | B0/220                  |      |         |
| BH   | (60°-80°)   | 104.5  | 5.1       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 7.4    | 0.4       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 20°    | 25°    | 35°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 563.3  | 563.3  | 563.3  | 563.3  | 563.3  | 563.3  | 563.3  | 563.3  | 563.3  | 563.3  | 563.3  |
| 2.5°  | 598.0  | 596.4  | 606.1  | 607.6  | 614.1  | 614.1  | 621.3  | 627.8  | 630.2  | 635.9  | 650.4  |
| 5°    | 578.7  | 583.5  | 597.2  | 610.9  | 620.5  | 630.2  | 640.7  | 653.7  | 664.1  | 681.8  | 718.9  |
| 7.5°  | 535.9  | 543.2  | 566.6  | 580.3  | 595.6  | 612.5  | 625.4  | 640.7  | 656.8  | 686.7  | 752.8  |
| 10°   | 494.1  | 499.7  | 529.5  | 546.5  | 568.1  | 585.9  | 604.5  | 621.3  | 639.1  | 676.2  | 752.8  |
| 12.5° | 467.5  | 474.6  | 508.5  | 524.7  | 549.6  | 568.1  | 590.8  | 610.9  | 631.9  | 671.4  | 745.5  |
| 15°   | 461.8  | 469.8  | 502.1  | 522.2  | 544.0  | 561.7  | 581.9  | 602.8  | 623.8  | 662.5  | 728.5  |
| 17.5° | 477.1  | 486.8  | 521.4  | 544.0  | 560.9  | 581.0  | 595.6  | 615.7  | 629.4  | 660.1  | 691.5  |
| 20°   | 513.4  | 524.7  | 565.8  | 587.5  | 601.2  | 614.1  | 625.4  | 637.5  | 643.1  | 650.4  | 644.8  |
| 22.5° | 571.4  | 585.1  | 631.9  | 656.8  | 666.6  | 676.2  | 677.0  | 678.6  | 674.5  | 655.2  | 611.7  |
| 25°   | 654.4  | 668.1  | 721.3  | 745.5  | 745.5  | 745.5  | 736.6  | 730.2  | 711.7  | 675.4  | 602.8  |
| 27.5° | 731.8  | 749.5  | 813.1  | 828.5  | 823.7  | 816.4  | 799.5  | 783.4  | 756.8  | 696.3  | 602.0  |
| 30°   | 789.8  | 807.5  | 866.3  | 878.5  | 866.3  | 848.6  | 822.0  | 798.7  | 767.2  | 706.9  | 607.6  |
| 32.5° | 843.0  | 864.0  | 920.3  | 922.0  | 900.2  | 880.0  | 850.3  | 823.7  | 790.6  | 726.2  | 624.6  |
| 35°   | 899.4  | 920.3  | 977.6  | 966.3  | 934.9  | 907.5  | 876.9  | 853.4  | 820.4  | 751.2  | 652.0  |
| 37.5° | 977.6  | 996.1  | 1044.5 | 1017.9 | 977.6  | 942.1  | 909.1  | 878.5  | 845.5  | 785.0  | 698.0  |
| 40°   | 1053.3 | 1079.9 | 1124.3 | 1081.6 | 1032.4 | 984.9  | 948.6  | 916.4  | 880.0  | 830.9  | 756.8  |
| 42.5° | 1124.3 | 1149.3 | 1190.4 | 1135.6 | 1078.4 | 1030.8 | 992.9  | 958.3  | 923.6  | 883.3  | 827.7  |
| 45°   | 1178.2 | 1204.1 | 1238.7 | 1180.7 | 1115.4 | 1066.2 | 1025.2 | 994.5  | 963.9  | 936.5  | 917.2  |
| 47.5° | 1230.7 | 1256.5 | 1283.1 | 1220.2 | 1155.7 | 1105.7 | 1057.4 | 1029.2 | 1005.0 | 990.5  | 1013.8 |
| 50°   | 1298.3 | 1316.1 | 1338.6 | 1270.9 | 1202.5 | 1145.2 | 1096.9 | 1075.1 | 1052.5 | 1057.4 | 1135.6 |
| 52.5° | 1390.3 | 1405.5 | 1413.6 | 1347.5 | 1270.9 | 1205.6 | 1152.5 | 1122.7 | 1104.2 | 1132.3 | 1264.5 |
| 55°   | 1520.0 | 1541.8 | 1524.0 | 1458.7 | 1362.1 | 1287.9 | 1222.6 | 1187.1 | 1175.9 | 1213.7 | 1393.5 |
| 57.5° | 1632.0 | 1641.7 | 1628.8 | 1564.3 | 1465.2 | 1382.2 | 1312.9 | 1275.8 | 1262.9 | 1312.9 | 1511.1 |
| 60°   | 1681.2 | 1693.3 | 1711.0 | 1655.4 | 1562.8 | 1480.5 | 1420.9 | 1384.6 | 1362.9 | 1420.9 | 1605.4 |
| 62.5° | 1689.2 | 1709.4 | 1752.9 | 1724.7 | 1651.3 | 1590.1 | 1536.2 | 1486.1 | 1469.3 | 1513.6 | 1667.5 |
| 65°   | 1657.8 | 1688.5 | 1755.4 | 1744.8 | 1703.7 | 1680.4 | 1635.3 | 1596.5 | 1564.3 | 1569.2 | 1664.2 |
| 67.5° | 1586.9 | 1622.4 | 1700.6 | 1695.6 | 1700.6 | 1700.6 | 1661.1 | 1628.8 | 1586.9 | 1527.3 | 1541.8 |
| 70°   | 1416.1 | 1462.8 | 1553.0 | 1576.4 | 1617.5 | 1617.5 | 1582.9 | 1533.7 | 1485.3 | 1362.9 | 1288.7 |
| 72.5° | 1134.8 | 1166.2 | 1304.8 | 1418.4 | 1470.8 | 1449.9 | 1416.1 | 1333.8 | 1227.4 | 1092.8 | 992.2  |
| 75°   | 768.0  | 786.5  | 956.7  | 1164.6 | 1259.7 | 1242.0 | 1186.3 | 1084.0 | 974.4  | 824.5  | 697.1  |
| 77.5° | 428.0  | 452.1  | 579.5  | 742.3  | 870.4  | 868.0  | 860.7  | 795.4  | 708.4  | 584.3  | 518.2  |
| 80°   | 251.4  | 259.5  | 326.4  | 444.9  | 555.3  | 528.7  | 510.1  | 458.6  | 414.3  | 357.8  | 408.6  |
| 82.5° | 154.0  | 145.9  | 185.4  | 270.8  | 328.1  | 316.7  | 285.3  | 266.0  | 245.0  | 229.7  | 271.6  |
| 85°   | 41.9   | 37.8   | 75.8   | 113.6  | 139.4  | 150.7  | 150.7  | 149.1  | 133.8  | 100.8  | 120.9  |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    |



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**CANDELA DISTRIBUTION (continued):**

|       | 45°    | 50°    | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 563.3  | 563.3  | 563.3  | 563.3  | 563.3  | 563.3  | 563.3  | 563.3  | 563.3  | 563.3  | 563.3  |
| 2.5°  | 656.0  | 656.8  | 654.4  | 660.1  | 653.7  | 650.4  | 640.7  | 640.7  | 632.7  | 626.3  | 619.0  |
| 5°    | 732.6  | 737.4  | 733.4  | 734.2  | 721.3  | 708.4  | 689.1  | 677.8  | 657.7  | 635.9  | 613.4  |
| 7.5°  | 784.2  | 792.3  | 789.0  | 775.3  | 755.1  | 727.7  | 695.5  | 664.9  | 631.9  | 596.4  | 563.3  |
| 10°   | 797.9  | 806.7  | 799.5  | 773.7  | 740.6  | 701.9  | 663.3  | 622.2  | 581.9  | 544.0  | 508.5  |
| 12.5° | 778.6  | 785.0  | 769.7  | 741.4  | 709.2  | 670.5  | 630.2  | 594.7  | 547.3  | 507.0  | 465.9  |
| 15°   | 729.4  | 725.4  | 723.7  | 703.6  | 681.0  | 649.6  | 611.7  | 575.4  | 531.1  | 490.0  | 446.5  |
| 17.5° | 676.2  | 671.4  | 673.0  | 664.9  | 661.6  | 647.1  | 619.0  | 588.3  | 548.8  | 498.9  | 452.1  |
| 20°   | 629.4  | 624.6  | 627.1  | 631.1  | 643.1  | 643.9  | 639.1  | 619.0  | 589.9  | 537.6  | 480.4  |
| 22.5° | 589.1  | 589.9  | 598.0  | 609.3  | 629.4  | 655.2  | 675.4  | 679.4  | 659.3  | 598.0  | 526.3  |
| 25°   | 577.0  | 573.1  | 581.9  | 600.5  | 634.2  | 684.3  | 729.4  | 752.0  | 740.6  | 679.4  | 591.6  |
| 27.5° | 573.1  | 567.4  | 577.0  | 601.2  | 655.2  | 725.4  | 789.8  | 823.7  | 827.7  | 764.9  | 661.6  |
| 30°   | 573.1  | 570.6  | 580.3  | 611.7  | 668.9  | 739.1  | 810.8  | 861.5  | 877.7  | 825.3  | 722.9  |
| 32.5° | 580.3  | 581.9  | 598.8  | 639.1  | 698.0  | 769.7  | 843.8  | 898.7  | 927.6  | 888.1  | 772.1  |
| 35°   | 596.4  | 599.7  | 623.8  | 670.5  | 734.2  | 806.7  | 874.4  | 930.1  | 976.8  | 955.8  | 818.1  |
| 37.5° | 631.1  | 635.9  | 665.7  | 713.3  | 771.3  | 836.6  | 902.7  | 962.3  | 1030.0 | 1021.1 | 866.3  |
| 40°   | 692.3  | 692.3  | 722.1  | 763.2  | 810.8  | 860.7  | 926.0  | 996.1  | 1079.1 | 1091.3 | 926.0  |
| 42.5° | 769.7  | 766.5  | 785.8  | 815.6  | 848.6  | 890.6  | 949.4  | 1027.6 | 1125.0 | 1151.6 | 971.2  |
| 45°   | 876.1  | 859.9  | 870.4  | 877.7  | 893.8  | 919.5  | 972.0  | 1057.4 | 1162.2 | 1196.9 | 1005.0 |
| 47.5° | 1001.0 | 978.5  | 969.6  | 955.8  | 950.2  | 959.8  | 1005.0 | 1080.7 | 1197.7 | 1235.5 | 1059.8 |
| 50°   | 1138.7 | 1117.1 | 1093.6 | 1056.6 | 1024.4 | 1014.7 | 1042.1 | 1112.2 | 1235.5 | 1283.9 | 1120.2 |
| 52.5° | 1282.3 | 1266.9 | 1236.3 | 1178.2 | 1117.1 | 1082.4 | 1095.3 | 1164.6 | 1296.0 | 1358.8 | 1191.9 |
| 55°   | 1413.6 | 1418.4 | 1381.4 | 1313.7 | 1225.8 | 1172.6 | 1188.0 | 1257.3 | 1405.5 | 1479.7 | 1312.0 |
| 57.5° | 1554.7 | 1541.8 | 1512.7 | 1442.7 | 1346.7 | 1289.5 | 1296.0 | 1379.8 | 1528.1 | 1584.4 | 1431.3 |
| 60°   | 1648.2 | 1648.2 | 1616.7 | 1563.5 | 1472.4 | 1419.2 | 1429.0 | 1506.3 | 1626.4 | 1632.0 | 1484.5 |
| 62.5° | 1708.6 | 1717.4 | 1692.5 | 1654.6 | 1565.9 | 1521.6 | 1554.7 | 1609.4 | 1674.8 | 1628.0 | 1457.9 |
| 65°   | 1679.6 | 1689.2 | 1686.8 | 1644.9 | 1582.1 | 1578.8 | 1638.5 | 1651.3 | 1645.7 | 1569.2 | 1366.0 |
| 67.5° | 1548.2 | 1528.9 | 1528.1 | 1506.3 | 1493.4 | 1560.3 | 1636.0 | 1640.1 | 1545.0 | 1453.9 | 1221.0 |
| 70°   | 1298.3 | 1265.3 | 1252.4 | 1258.8 | 1317.7 | 1442.7 | 1550.6 | 1520.0 | 1368.5 | 1290.4 | 1039.6 |
| 72.5° | 1001.0 | 961.5  | 953.4  | 978.5  | 1069.5 | 1245.1 | 1392.6 | 1350.0 | 1125.0 | 1034.0 | 805.2  |
| 75°   | 710.0  | 693.2  | 693.9  | 743.1  | 841.4  | 1010.7 | 1182.3 | 1178.2 | 833.3  | 713.3  | 554.4  |
| 77.5° | 516.6  | 519.9  | 534.3  | 553.7  | 638.3  | 801.9  | 963.1  | 952.6  | 593.2  | 490.0  | 387.7  |
| 80°   | 426.4  | 431.2  | 431.2  | 420.7  | 442.4  | 529.5  | 654.4  | 698.8  | 397.3  | 329.6  | 270.8  |
| 82.5° | 306.3  | 330.4  | 344.1  | 327.2  | 319.2  | 348.9  | 410.2  | 439.3  | 247.5  | 208.0  | 189.3  |
| 85°   | 145.9  | 166.8  | 171.7  | 167.7  | 192.6  | 220.0  | 234.6  | 240.2  | 135.4  | 96.7   | 124.1  |
| 87.5° | 0.0    | 0.0    | 0.8    | 6.4    | 17.7   | 30.6   | 30.6   | 46.7   | 7.3    | 2.5    | 5.6    |
| 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):**

|       | 100°   | 105°  | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 145°  | 155°  | 165°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 563.3  | 563.3 | 563.3 | 563.3 | 563.3 | 563.3 | 563.3 | 563.3 | 563.3 | 563.3 | 563.3 |
| 2.5°  | 609.3  | 598.8 | 590.8 | 581.0 | 573.1 | 565.0 | 559.3 | 547.3 | 537.6 | 515.8 | 510.1 |
| 5°    | 594.7  | 572.2 | 556.9 | 542.4 | 523.9 | 511.0 | 497.3 | 480.4 | 461.8 | 430.4 | 420.7 |
| 7.5°  | 537.6  | 509.3 | 488.4 | 467.5 | 443.2 | 421.5 | 401.4 | 378.8 | 346.6 | 312.7 | 299.8 |
| 10°   | 475.5  | 445.7 | 416.6 | 391.7 | 362.6 | 338.5 | 320.8 | 304.6 | 278.9 | 253.1 | 236.1 |
| 12.5° | 424.7  | 390.9 | 357.8 | 332.9 | 317.5 | 305.5 | 292.6 | 279.7 | 252.3 | 223.2 | 203.1 |
| 15°   | 401.4  | 361.8 | 332.9 | 311.9 | 298.2 | 283.7 | 268.4 | 253.9 | 221.7 | 187.8 | 163.6 |
| 17.5° | 404.6  | 359.5 | 322.3 | 294.2 | 275.6 | 255.5 | 237.7 | 219.2 | 183.7 | 143.4 | 121.7 |
| 20°   | 422.3  | 361.8 | 311.1 | 278.0 | 251.4 | 225.7 | 203.1 | 179.7 | 136.2 | 104.8 | 89.5  |
| 22.5° | 444.9  | 369.9 | 304.6 | 262.0 | 228.9 | 196.6 | 167.7 | 140.2 | 100.8 | 82.2  | 75.0  |
| 25°   | 483.5  | 388.4 | 303.0 | 247.5 | 207.1 | 168.5 | 138.6 | 109.6 | 81.4  | 72.5  | 68.5  |
| 27.5° | 531.9  | 409.4 | 304.6 | 236.9 | 188.6 | 145.9 | 112.8 | 91.0  | 73.3  | 68.5  | 65.3  |
| 30°   | 580.3  | 431.2 | 297.4 | 220.9 | 166.8 | 124.9 | 96.7  | 83.0  | 72.5  | 66.9  | 61.3  |
| 32.5° | 623.0  | 447.3 | 285.3 | 203.9 | 147.5 | 106.4 | 82.2  | 70.9  | 63.6  | 57.2  | 55.6  |
| 35°   | 653.7  | 454.6 | 271.6 | 193.4 | 134.6 | 95.1  | 72.5  | 63.6  | 56.4  | 49.9  | 46.7  |
| 37.5° | 682.6  | 455.3 | 257.1 | 183.7 | 129.7 | 90.2  | 66.9  | 58.8  | 52.4  | 46.7  | 43.5  |
| 40°   | 712.5  | 452.1 | 249.0 | 174.1 | 122.5 | 87.9  | 64.4  | 54.8  | 50.7  | 44.3  | 41.1  |
| 42.5° | 734.2  | 446.5 | 245.8 | 168.5 | 116.1 | 81.4  | 62.9  | 54.0  | 48.4  | 43.5  | 39.5  |
| 45°   | 754.3  | 440.9 | 245.8 | 163.6 | 111.2 | 77.3  | 59.6  | 54.8  | 46.7  | 42.8  | 37.8  |
| 47.5° | 778.6  | 443.2 | 246.6 | 159.6 | 107.2 | 73.3  | 56.4  | 53.2  | 47.6  | 41.9  | 37.0  |
| 50°   | 819.6  | 470.7 | 250.6 | 157.1 | 103.9 | 70.1  | 54.0  | 50.7  | 52.4  | 41.1  | 36.3  |
| 52.5° | 890.6  | 514.2 | 257.1 | 155.6 | 100.8 | 67.7  | 50.7  | 49.2  | 53.2  | 41.1  | 35.5  |
| 55°   | 983.3  | 558.5 | 263.5 | 151.5 | 96.0  | 62.9  | 49.2  | 45.9  | 49.2  | 41.1  | 34.7  |
| 57.5° | 1073.5 | 591.6 | 269.1 | 145.9 | 87.9  | 58.0  | 46.7  | 43.5  | 45.1  | 40.3  | 33.0  |
| 60°   | 1125.9 | 617.4 | 274.9 | 136.2 | 78.2  | 52.4  | 44.3  | 41.1  | 40.3  | 40.3  | 32.2  |
| 62.5° | 1140.4 | 607.6 | 271.6 | 124.1 | 70.1  | 48.4  | 41.9  | 38.7  | 36.3  | 41.1  | 32.2  |
| 65°   | 1094.5 | 556.9 | 259.5 | 113.6 | 64.4  | 46.7  | 39.5  | 37.0  | 34.7  | 35.5  | 30.6  |
| 67.5° | 953.4  | 468.2 | 226.5 | 103.9 | 63.6  | 45.9  | 37.8  | 35.5  | 32.2  | 31.4  | 29.1  |
| 70°   | 777.7  | 367.5 | 187.8 | 96.7  | 62.9  | 45.9  | 36.3  | 33.0  | 30.6  | 28.2  | 26.6  |
| 72.5° | 598.0  | 274.9 | 157.9 | 93.5  | 63.6  | 45.1  | 33.9  | 29.9  | 27.4  | 25.8  | 24.1  |
| 75°   | 420.7  | 194.3 | 131.3 | 83.8  | 59.6  | 42.8  | 31.4  | 26.6  | 24.1  | 22.6  | 21.0  |
| 77.5° | 304.6  | 132.2 | 97.5  | 67.7  | 50.7  | 37.0  | 27.4  | 22.6  | 20.2  | 19.3  | 17.7  |
| 80°   | 194.3  | 81.4  | 65.3  | 49.9  | 37.0  | 29.1  | 21.0  | 17.7  | 16.2  | 14.5  | 13.7  |
| 82.5° | 112.0  | 47.6  | 39.5  | 33.9  | 24.1  | 19.3  | 15.3  | 13.7  | 10.4  | 9.7   | 8.9   |
| 85°   | 68.5   | 29.9  | 21.8  | 17.7  | 15.3  | 12.1  | 8.9   | 8.1   | 5.6   | 4.8   | 4.0   |
| 87.5° | 15.3   | 6.4   | 5.6   | 4.0   | 4.8   | 4.0   | 2.5   | 1.6   | 0.0   | 0.0   | 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   |



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**CANDELA DISTRIBUTION (continued):**

|       | 175°  | 180°  | 185°  | 195°  | 205°  | 215°  | 225°  | 230°  | 232.5° | 235°  | 237.5° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|
| 0°    | 563.3 | 563.3 | 563.3 | 563.3 | 563.3 | 563.3 | 563.3 | 563.3 | 563.3  | 563.3 | 563.3  |
| 2.5°  | 501.2 | 489.2 | 490.0 | 487.6 | 481.2 | 470.7 | 467.5 | 461.8 | 462.6  | 465.9 | 462.6  |
| 5°    | 409.4 | 394.9 | 396.5 | 395.7 | 389.2 | 382.0 | 376.3 | 369.1 | 366.7  | 369.1 | 365.1  |
| 7.5°  | 290.1 | 280.5 | 283.7 | 290.9 | 290.1 | 286.1 | 281.3 | 273.2 | 271.6  | 272.4 | 265.1  |
| 10°   | 221.7 | 212.0 | 209.5 | 208.8 | 207.1 | 204.7 | 198.2 | 191.8 | 189.3  | 190.2 | 185.4  |
| 12.5° | 185.4 | 177.3 | 167.7 | 158.8 | 150.7 | 147.5 | 139.4 | 135.4 | 134.6  | 134.6 | 132.2  |
| 15°   | 146.7 | 140.2 | 134.6 | 125.7 | 119.3 | 114.5 | 108.8 | 105.6 | 104.8  | 105.6 | 105.6  |
| 17.5° | 109.6 | 106.4 | 103.9 | 103.1 | 99.9  | 96.7  | 93.5  | 91.9  | 91.0   | 91.0  | 91.9   |
| 20°   | 83.8  | 83.0  | 83.0  | 83.0  | 87.1  | 90.2  | 91.0  | 88.7  | 87.9   | 87.1  | 86.2   |
| 22.5° | 72.5  | 71.7  | 72.5  | 77.3  | 75.0  | 72.5  | 72.5  | 72.5  | 72.5   | 72.5  | 73.3   |
| 25°   | 66.9  | 67.7  | 68.5  | 66.1  | 63.6  | 62.1  | 61.3  | 61.3  | 60.5   | 60.5  | 61.3   |
| 27.5° | 63.6  | 62.9  | 62.1  | 60.5  | 58.8  | 56.4  | 55.6  | 54.8  | 54.8   | 54.8  | 54.8   |
| 30°   | 59.6  | 58.8  | 58.0  | 56.4  | 54.0  | 50.7  | 49.9  | 49.9  | 49.2   | 49.9  | 49.9   |
| 32.5° | 54.8  | 54.0  | 53.2  | 51.6  | 49.2  | 47.6  | 46.7  | 45.1  | 45.1   | 45.1  | 45.9   |
| 35°   | 44.3  | 43.5  | 43.5  | 44.3  | 44.3  | 43.5  | 43.5  | 41.9  | 41.9   | 41.9  | 41.9   |
| 37.5° | 41.1  | 40.3  | 40.3  | 39.5  | 40.3  | 41.1  | 40.3  | 39.5  | 39.5   | 38.7  | 38.7   |
| 40°   | 38.7  | 38.7  | 37.8  | 37.0  | 37.0  | 38.7  | 37.8  | 37.0  | 36.3   | 36.3  | 36.3   |
| 42.5° | 37.0  | 36.3  | 36.3  | 35.5  | 35.5  | 35.5  | 34.7  | 33.9  | 33.0   | 33.0  | 33.0   |
| 45°   | 35.5  | 35.5  | 34.7  | 33.9  | 33.0  | 33.0  | 31.4  | 30.6  | 30.6   | 30.6  | 31.4   |
| 47.5° | 34.7  | 33.9  | 33.9  | 33.0  | 32.2  | 30.6  | 29.9  | 29.1  | 29.1   | 29.1  | 29.1   |
| 50°   | 33.9  | 33.0  | 32.2  | 32.2  | 30.6  | 29.9  | 29.1  | 28.2  | 28.2   | 28.2  | 28.2   |
| 52.5° | 33.0  | 32.2  | 31.4  | 30.6  | 29.9  | 29.1  | 28.2  | 27.4  | 27.4   | 27.4  | 27.4   |
| 55°   | 31.4  | 30.6  | 30.6  | 29.9  | 29.9  | 29.1  | 28.2  | 27.4  | 27.4   | 27.4  | 26.6   |
| 57.5° | 30.6  | 29.9  | 29.1  | 29.1  | 29.1  | 28.2  | 27.4  | 26.6  | 26.6   | 26.6  | 26.6   |
| 60°   | 29.9  | 29.1  | 29.1  | 28.2  | 28.2  | 27.4  | 27.4  | 26.6  | 25.8   | 25.8  | 25.0   |
| 62.5° | 29.1  | 28.2  | 28.2  | 27.4  | 28.2  | 27.4  | 26.6  | 25.8  | 25.0   | 25.0  | 24.1   |
| 65°   | 28.2  | 27.4  | 27.4  | 27.4  | 26.6  | 26.6  | 25.8  | 24.1  | 24.1   | 24.1  | 23.3   |
| 67.5° | 26.6  | 25.8  | 25.8  | 26.6  | 25.8  | 25.0  | 25.0  | 23.3  | 23.3   | 22.6  | 22.6   |
| 70°   | 24.1  | 24.1  | 24.1  | 25.0  | 24.1  | 23.3  | 23.3  | 22.6  | 21.8   | 21.0  | 21.0   |
| 72.5° | 22.6  | 21.8  | 22.6  | 22.6  | 22.6  | 21.8  | 22.6  | 21.0  | 20.2   | 19.3  | 19.3   |
| 75°   | 19.3  | 19.3  | 19.3  | 19.3  | 19.3  | 19.3  | 19.3  | 19.3  | 18.5   | 17.7  | 16.9   |
| 77.5° | 15.3  | 16.2  | 16.2  | 16.2  | 16.2  | 16.9  | 16.2  | 16.2  | 16.2   | 15.3  | 14.5   |
| 80°   | 11.3  | 11.3  | 12.1  | 12.9  | 12.1  | 12.9  | 12.1  | 12.9  | 12.1   | 12.1  | 12.1   |
| 82.5° | 6.4   | 6.4   | 7.3   | 8.1   | 8.1   | 8.9   | 7.3   | 8.1   | 8.1    | 8.9   | 8.1    |
| 85°   | 2.5   | 2.5   | 2.5   | 2.5   | 3.3   | 3.3   | 2.5   | 3.3   | 3.3    | 4.0   | 4.0    |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 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    |



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**CANDELA DISTRIBUTION (continued):**

|       | 240°  | 242.5° | 245°  | 247.5° | 250°  | 252.5° | 255°  | 257.5° | 260°  | 265°  | 270°  |
|-------|-------|--------|-------|--------|-------|--------|-------|--------|-------|-------|-------|
| 0°    | 563.3 | 563.3  | 563.3 | 563.3  | 563.3 | 563.3  | 563.3 | 563.3  | 563.3 | 563.3 | 563.3 |
| 2.5°  | 469.0 | 469.0  | 459.4 | 461.0  | 462.6 | 465.9  | 464.2 | 463.4  | 462.6 | 467.5 | 469.8 |
| 5°    | 368.4 | 367.5  | 355.4 | 354.7  | 357.0 | 357.8  | 355.4 | 351.4  | 348.9 | 349.7 | 352.2 |
| 7.5°  | 267.6 | 265.1  | 253.9 | 252.3  | 251.4 | 252.3  | 249.8 | 245.8  | 242.5 | 243.4 | 245.8 |
| 10°   | 187.0 | 180.6  | 178.9 | 179.7  | 181.4 | 182.9  | 182.9 | 182.9  | 183.7 | 188.6 | 194.3 |
| 12.5° | 135.4 | 133.0  | 134.6 | 136.2  | 139.4 | 141.9  | 144.2 | 145.1  | 145.9 | 152.3 | 157.1 |
| 15°   | 107.2 | 107.2  | 108.8 | 109.6  | 111.2 | 112.8  | 114.5 | 114.5  | 115.3 | 117.6 | 121.7 |
| 17.5° | 92.7  | 92.7   | 92.7  | 92.7   | 92.7  | 91.9   | 91.0  | 89.5   | 88.7  | 87.9  | 88.7  |
| 20°   | 85.4  | 84.6   | 83.0  | 82.2   | 80.6  | 79.0   | 78.2  | 75.8   | 75.0  | 72.5  | 71.7  |
| 22.5° | 73.3  | 72.5   | 72.5  | 72.5   | 72.5  | 71.7   | 70.9  | 70.1   | 68.5  | 66.1  | 64.4  |
| 25°   | 60.5  | 60.5   | 60.5  | 61.3   | 61.3  | 62.1   | 63.6  | 63.6   | 63.6  | 63.6  | 61.3  |
| 27.5° | 54.8  | 54.8   | 54.8  | 54.8   | 55.6  | 55.6   | 56.4  | 56.4   | 56.4  | 57.2  | 58.0  |
| 30°   | 49.9  | 50.7   | 50.7  | 51.6   | 51.6  | 52.4   | 52.4  | 53.2   | 53.2  | 54.0  | 54.0  |
| 32.5° | 45.9  | 45.9   | 46.7  | 47.6   | 47.6  | 47.6   | 49.2  | 49.2   | 48.4  | 49.2  | 49.2  |
| 35°   | 41.1  | 41.1   | 41.1  | 41.1   | 41.1  | 41.1   | 41.1  | 41.1   | 39.5  | 38.7  | 39.5  |
| 37.5° | 37.8  | 37.0   | 37.0  | 36.3   | 35.5  | 35.5   | 35.5  | 36.3   | 35.5  | 36.3  | 36.3  |
| 40°   | 34.7  | 34.7   | 33.9  | 33.9   | 33.9  | 33.9   | 33.9  | 33.9   | 33.9  | 34.7  | 35.5  |
| 42.5° | 32.2  | 32.2   | 32.2  | 32.2   | 32.2  | 32.2   | 32.2  | 32.2   | 32.2  | 33.0  | 33.0  |
| 45°   | 30.6  | 30.6   | 30.6  | 30.6   | 31.4  | 31.4   | 31.4  | 31.4   | 31.4  | 31.4  | 32.2  |
| 47.5° | 29.9  | 29.9   | 29.9  | 29.9   | 29.9  | 29.9   | 29.9  | 29.9   | 29.9  | 30.6  | 31.4  |
| 50°   | 28.2  | 28.2   | 29.1  | 29.1   | 29.1  | 29.1   | 29.1  | 29.1   | 29.1  | 29.9  | 30.6  |
| 52.5° | 27.4  | 27.4   | 27.4  | 28.2   | 28.2  | 28.2   | 28.2  | 28.2   | 28.2  | 28.2  | 29.1  |
| 55°   | 26.6  | 27.4   | 27.4  | 27.4   | 27.4  | 27.4   | 26.6  | 26.6   | 26.6  | 26.6  | 27.4  |
| 57.5° | 25.8  | 25.8   | 26.6  | 26.6   | 26.6  | 25.8   | 25.8  | 25.0   | 25.0  | 25.0  | 26.6  |
| 60°   | 25.0  | 25.0   | 25.0  | 25.0   | 25.0  | 24.1   | 24.1  | 24.1   | 24.1  | 25.0  | 25.0  |
| 62.5° | 24.1  | 24.1   | 23.3  | 23.3   | 23.3  | 23.3   | 23.3  | 23.3   | 23.3  | 23.3  | 23.3  |
| 65°   | 23.3  | 23.3   | 22.6  | 22.6   | 22.6  | 22.6   | 22.6  | 22.6   | 22.6  | 22.6  | 22.6  |
| 67.5° | 21.8  | 21.8   | 21.8  | 21.0   | 21.0  | 21.0   | 21.0  | 21.8   | 21.0  | 21.0  | 21.0  |
| 70°   | 20.2  | 20.2   | 20.2  | 19.3   | 19.3  | 19.3   | 19.3  | 19.3   | 19.3  | 19.3  | 19.3  |
| 72.5° | 18.5  | 18.5   | 18.5  | 18.5   | 17.7  | 17.7   | 17.7  | 17.7   | 17.7  | 17.7  | 17.7  |
| 75°   | 16.9  | 16.2   | 16.2  | 15.3   | 15.3  | 15.3   | 15.3  | 15.3   | 15.3  | 15.3  | 15.3  |
| 77.5° | 14.5  | 13.7   | 13.7  | 13.7   | 12.9  | 12.9   | 12.9  | 12.9   | 12.9  | 12.9  | 12.9  |
| 80°   | 12.1  | 11.3   | 11.3  | 10.4   | 10.4  | 10.4   | 10.4  | 10.4   | 10.4  | 9.7   | 9.7   |
| 82.5° | 8.9   | 8.1    | 8.1   | 8.1    | 8.1   | 7.3    | 7.3   | 7.3    | 7.3   | 6.4   | 5.6   |
| 85°   | 4.0   | 4.0    | 3.3   | 4.0    | 4.0   | 4.8    | 4.0   | 4.0    | 4.0   | 3.3   | 1.6   |
| 87.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 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   |



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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

|       | 275°  | 280°  | 282.5° | 285°  | 287.5° | 290°  | 292.5° | 295°  | 297.5° | 300°  | 302.5° |       |
|-------|-------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| 0°    | 563.3 | 563.3 | 563.3  | 563.3 | 563.3  | 563.3 | 563.3  | 563.3 | 563.3  | 563.3 | 563.3  | 0°    |
| 2.5°  | 468.2 | 476.3 | 477.1  | 472.3 | 481.9  | 483.5 | 481.2  | 481.2 | 482.7  | 489.2 | 489.2  | 2.5°  |
| 5°    | 348.9 | 359.5 | 358.6  | 352.2 | 365.1  | 369.1 | 366.7  | 367.5 | 370.7  | 378.0 | 382.0  | 5°    |
| 7.5°  | 246.6 | 255.5 | 254.7  | 253.9 | 262.0  | 265.1 | 266.8  | 269.1 | 278.9  | 279.7 | 284.5  | 7.5°  |
| 10°   | 199.9 | 208.0 | 210.3  | 215.9 | 218.4  | 223.2 | 226.5  | 230.5 | 238.6  | 242.5 | 248.3  | 10°   |
| 12.5° | 162.0 | 171.7 | 174.1  | 180.6 | 183.7  | 189.3 | 192.6  | 200.7 | 205.5  | 210.3 | 217.6  | 12.5° |
| 15°   | 124.9 | 133.0 | 135.4  | 140.2 | 143.4  | 149.9 | 153.1  | 157.9 | 167.7  | 172.5 | 182.2  | 15°   |
| 17.5° | 91.9  | 96.7  | 98.3   | 101.6 | 103.9  | 106.4 | 112.8  | 120.9 | 126.5  | 134.6 | 139.4  | 17.5° |
| 20°   | 71.7  | 73.3  | 74.2   | 75.0  | 76.5   | 78.2  | 81.4   | 87.1  | 90.2   | 96.7  | 101.6  | 20°   |
| 22.5° | 64.4  | 65.3  | 65.3   | 66.1  | 66.1   | 66.9  | 68.5   | 70.1  | 71.7   | 74.2  | 76.5   | 22.5° |
| 25°   | 59.6  | 60.5  | 60.5   | 61.3  | 61.3   | 62.1  | 62.9   | 63.6  | 65.3   | 66.1  | 66.9   | 25°   |
| 27.5° | 57.2  | 57.2  | 57.2   | 57.2  | 58.0   | 58.0  | 58.8   | 60.5  | 60.5   | 62.1  | 62.9   | 27.5° |
| 30°   | 54.8  | 54.8  | 54.8   | 55.6  | 56.4   | 58.0  | 59.6   | 62.1  | 62.9   | 64.4  | 65.3   | 30°   |
| 32.5° | 50.7  | 49.2  | 50.7   | 49.9  | 48.4   | 48.4  | 49.2   | 50.7  | 50.7   | 51.6  | 52.4   | 32.5° |
| 35°   | 39.5  | 39.5  | 40.3   | 41.1  | 41.1   | 41.9  | 42.8   | 43.5  | 44.3   | 45.9  | 46.7   | 35°   |
| 37.5° | 37.0  | 37.8  | 37.8   | 38.7  | 39.5   | 39.5  | 40.3   | 41.9  | 42.8   | 43.5  | 44.3   | 37.5° |
| 40°   | 35.5  | 36.3  | 37.0   | 37.8  | 37.8   | 38.7  | 39.5   | 40.3  | 41.1   | 42.8  | 43.5   | 40°   |
| 42.5° | 33.9  | 35.5  | 35.5   | 36.3  | 37.0   | 37.8  | 38.7   | 39.5  | 41.1   | 41.9  | 42.8   | 42.5° |
| 45°   | 33.0  | 33.9  | 34.7   | 35.5  | 36.3   | 37.0  | 37.8   | 39.5  | 40.3   | 41.9  | 42.8   | 45°   |
| 47.5° | 32.2  | 33.0  | 33.9   | 34.7  | 35.5   | 36.3  | 37.0   | 38.7  | 40.3   | 41.9  | 43.5   | 47.5° |
| 50°   | 30.6  | 32.2  | 33.0   | 33.9  | 34.7   | 35.5  | 37.0   | 38.7  | 40.3   | 42.8  | 46.7   | 50°   |
| 52.5° | 29.9  | 31.4  | 31.4   | 33.0  | 33.9   | 35.5  | 37.0   | 38.7  | 41.1   | 44.3  | 48.4   | 52.5° |
| 55°   | 28.2  | 29.9  | 29.9   | 31.4  | 33.0   | 34.7  | 35.5   | 37.8  | 40.3   | 43.5  | 44.3   | 55°   |
| 57.5° | 26.6  | 28.2  | 29.1   | 29.9  | 31.4   | 33.0  | 33.9   | 36.3  | 39.5   | 40.3  | 39.5   | 57.5° |
| 60°   | 25.8  | 26.6  | 27.4   | 28.2  | 29.9   | 30.6  | 33.0   | 37.8  | 41.1   | 37.8  | 33.9   | 60°   |
| 62.5° | 24.1  | 25.8  | 26.6   | 27.4  | 29.1   | 29.9  | 31.4   | 34.7  | 35.5   | 31.4  | 30.6   | 62.5° |
| 65°   | 23.3  | 25.0  | 25.0   | 26.6  | 27.4   | 27.4  | 28.2   | 28.2  | 28.2   | 28.2  | 28.2   | 65°   |
| 67.5° | 21.8  | 23.3  | 23.3   | 24.1  | 25.0   | 25.0  | 25.8   | 25.8  | 25.8   | 25.8  | 25.8   | 67.5° |
| 70°   | 20.2  | 21.0  | 21.8   | 22.6  | 22.6   | 22.6  | 23.3   | 23.3  | 23.3   | 24.1  | 24.1   | 70°   |
| 72.5° | 18.5  | 19.3  | 19.3   | 20.2  | 20.2   | 21.0  | 21.0   | 21.8  | 21.8   | 21.8  | 22.6   | 72.5° |
| 75°   | 15.3  | 16.2  | 16.9   | 17.7  | 17.7   | 18.5  | 18.5   | 18.5  | 18.5   | 19.3  | 19.3   | 75°   |
| 77.5° | 12.9  | 12.9  | 14.5   | 14.5  | 15.3   | 15.3  | 16.2   | 16.2  | 16.2   | 16.2  | 16.2   | 77.5° |
| 80°   | 9.7   | 9.7   | 10.4   | 11.3  | 12.1   | 12.1  | 12.1   | 12.1  | 12.1   | 12.1  | 12.1   | 80°   |
| 82.5° | 5.6   | 5.6   | 6.4    | 6.4   | 7.3    | 7.3   | 8.1    | 7.3   | 7.3    | 6.4   | 6.4    | 82.5° |
| 85°   | 1.6   | 1.6   | 1.6    | 1.6   | 1.6    | 1.6   | 1.6    | 0.8   | 0.8    | 0.0   | 0.0    | 85°   |
| 87.5° | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 87.5° |
| 90°   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 90°   |

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REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

| 305°  | 307.5° | 310°  | 312.5° | 315°  | 317.5° | 320°  | 322.5° | 325°  | 335°  | 345°  | 355°  |        |
|-------|--------|-------|--------|-------|--------|-------|--------|-------|-------|-------|-------|--------|
| 563.3 | 563.3  | 563.3 | 563.3  | 563.3 | 563.3  | 563.3 | 563.3  | 563.3 | 563.3 | 563.3 | 0°    | 563.3  |
| 501.2 | 501.2  | 502.9 | 509.3  | 511.0 | 515.0  | 514.2 | 521.4  | 524.7 | 544.0 | 564.2 | 2.5°  | 583.5  |
| 396.5 | 399.8  | 404.6 | 412.7  | 417.5 | 426.4  | 424.7 | 439.3  | 441.6 | 477.1 | 511.8 | 5°    | 552.1  |
| 295.7 | 300.6  | 304.6 | 313.5  | 320.8 | 329.6  | 332.0 | 348.9  | 353.8 | 400.6 | 448.9 | 7.5°  | 504.5  |
| 256.2 | 260.3  | 266.0 | 271.6  | 278.9 | 282.8  | 289.3 | 297.4  | 303.0 | 337.7 | 393.3 | 10°   | 457.0  |
| 228.1 | 233.7  | 239.4 | 247.5  | 254.7 | 262.0  | 268.4 | 276.4  | 283.7 | 311.9 | 355.4 | 12.5° | 428.7  |
| 193.4 | 199.9  | 206.3 | 215.2  | 225.7 | 232.9  | 240.2 | 249.0  | 257.9 | 292.6 | 343.3 | 15°   | 417.5  |
| 149.9 | 157.1  | 166.0 | 178.1  | 189.3 | 198.2  | 205.5 | 217.6  | 228.9 | 270.8 | 337.7 | 17.5° | 428.7  |
| 110.4 | 116.8  | 124.9 | 135.4  | 143.4 | 158.8  | 166.8 | 181.4  | 195.1 | 247.5 | 329.6 | 20°   | 450.5  |
| 81.4  | 85.4   | 91.9  | 99.9   | 108.8 | 122.5  | 131.3 | 144.2  | 159.6 | 225.7 | 329.6 | 22.5° | 487.6  |
| 68.5  | 70.1   | 72.5  | 77.3   | 83.0  | 92.7   | 101.6 | 114.5  | 129.7 | 206.3 | 338.5 | 25°   | 548.0  |
| 63.6  | 64.4   | 66.1  | 68.5   | 71.7  | 76.5   | 83.0  | 93.5   | 108.8 | 191.0 | 351.4 | 27.5° | 612.5  |
| 66.9  | 66.9   | 66.9  | 67.7   | 69.4  | 71.7   | 75.0  | 81.4   | 91.0  | 168.5 | 360.3 | 30°   | 668.9  |
| 54.0  | 54.8   | 54.8  | 56.4   | 57.2  | 60.5   | 63.6  | 68.5   | 77.3  | 154.8 | 365.9 | 32.5° | 709.2  |
| 48.4  | 49.2   | 49.9  | 50.7   | 52.4  | 53.2   | 56.4  | 62.1   | 70.9  | 145.9 | 365.1 | 35°   | 756.8  |
| 45.9  | 46.7   | 47.6  | 47.6   | 48.4  | 49.9   | 52.4  | 58.0   | 68.5  | 142.7 | 365.1 | 37.5° | 811.6  |
| 45.1  | 45.1   | 45.1  | 45.1   | 46.7  | 48.4   | 52.4  | 58.0   | 66.9  | 139.4 | 367.5 | 40°   | 872.1  |
| 43.5  | 43.5   | 43.5  | 44.3   | 46.7  | 49.9   | 51.6  | 54.8   | 62.1  | 137.8 | 371.5 | 42.5° | 926.8  |
| 43.5  | 43.5   | 44.3  | 47.6   | 48.4  | 48.4   | 49.2  | 51.6   | 58.8  | 137.8 | 379.6 | 45°   | 969.6  |
| 45.1  | 46.7   | 47.6  | 46.7   | 45.9  | 45.9   | 45.9  | 49.2   | 56.4  | 140.2 | 394.9 | 47.5° | 1018.8 |
| 49.2  | 48.4   | 45.1  | 44.3   | 44.3  | 42.8   | 43.5  | 46.7   | 55.6  | 140.2 | 426.4 | 50°   | 1086.4 |
| 48.4  | 45.1   | 44.3  | 42.8   | 41.1  | 40.3   | 41.1  | 45.9   | 54.8  | 138.6 | 471.5 | 52.5° | 1185.5 |
| 43.5  | 42.8   | 40.3  | 38.7   | 37.8  | 38.7   | 40.3  | 44.3   | 53.2  | 137.0 | 527.1 | 55°   | 1305.6 |
| 37.8  | 37.0   | 35.5  | 35.5   | 36.3  | 37.0   | 39.5  | 42.8   | 49.2  | 133.0 | 571.4 | 57.5° | 1416.1 |
| 33.0  | 33.0   | 33.0  | 33.9   | 34.7  | 35.5   | 37.8  | 40.3   | 45.1  | 125.7 | 601.2 | 60°   | 1487.0 |
| 29.9  | 30.6   | 30.6  | 32.2   | 33.0  | 33.9   | 35.5  | 37.8   | 41.1  | 117.6 | 607.6 | 62.5° | 1487.8 |
| 28.2  | 29.1   | 29.9  | 29.9   | 30.6  | 31.4   | 33.9  | 36.3   | 41.1  | 111.2 | 568.1 | 65°   | 1429.0 |
| 26.6  | 26.6   | 27.4  | 28.2   | 29.1  | 29.9   | 31.4  | 35.5   | 41.9  | 105.6 | 481.9 | 67.5° | 1279.8 |
| 24.1  | 25.0   | 25.8  | 26.6   | 26.6  | 27.4   | 29.9  | 35.5   | 42.8  | 103.1 | 382.8 | 70°   | 1080.7 |
| 22.6  | 22.6   | 23.3  | 24.1   | 24.1  | 25.8   | 28.2  | 34.7   | 43.5  | 99.1  | 288.6 | 72.5° | 843.0  |
| 19.3  | 20.2   | 20.2  | 20.2   | 21.0  | 22.6   | 25.8  | 31.4   | 37.8  | 82.2  | 195.1 | 75°   | 571.4  |
| 16.9  | 16.2   | 16.9  | 16.9   | 17.7  | 18.5   | 21.0  | 24.1   | 28.2  | 52.4  | 103.1 | 77.5° | 363.5  |
| 12.1  | 11.3   | 11.3  | 12.1   | 12.1  | 12.1   | 13.7  | 14.5   | 16.2  | 32.2  | 57.2  | 80°   | 214.4  |
| 6.4   | 5.6    | 6.4   | 5.6    | 5.6   | 6.4    | 6.4   | 8.1    | 8.1   | 15.3  | 25.8  | 82.5° | 133.0  |
| 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 1.6   | 5.6   | 85°   | 54.0   |
| 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 87.5° | 0.0    |
| 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 90°   | 0.0    |

'228564  
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**TION (continued):**

| 359°   | 360°   |
|--------|--------|
| 563.3  | 563.3  |
| 593.2  | 598.0  |
| 572.2  | 578.7  |
| 527.1  | 535.9  |
| 485.2  | 494.1  |
| 462.6  | 467.5  |
| 452.1  | 461.8  |
| 467.5  | 477.1  |
| 498.1  | 513.4  |
| 552.1  | 571.4  |
| 637.5  | 654.4  |
| 705.2  | 731.8  |
| 768.0  | 789.8  |
| 818.1  | 843.0  |
| 875.2  | 899.4  |
| 944.6  | 977.6  |
| 1016.3 | 1053.3 |
| 1083.2 | 1124.3 |
| 1146.0 | 1178.2 |
| 1194.4 | 1230.7 |
| 1255.7 | 1298.3 |
| 1359.6 | 1390.3 |
| 1485.3 | 1520.0 |
| 1602.2 | 1632.0 |
| 1656.2 | 1681.2 |
| 1657.8 | 1689.2 |
| 1622.4 | 1657.8 |
| 1532.1 | 1586.9 |
| 1354.8 | 1416.1 |
| 1064.7 | 1134.8 |
| 706.9  | 768.0  |
| 407.9  | 428.0  |
| 241.0  | 251.4  |
| 143.4  | 154.0  |
| 38.7   | 41.9   |
| 0.0    | 0.0    |
| 0.0    | 0.0    |

(END OF REPORT)