

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: P271607

Luminaire Tested: **ISS-AF-1000-LED-E1-T2-7027-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271607
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29758)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-1000-LED-E1-T2-7027-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II, WITH UPLIGHT GLOW
Light Source: (16) 2700K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6319.9 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B1 - U5 - G1

Input Watts (W): 71.3
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

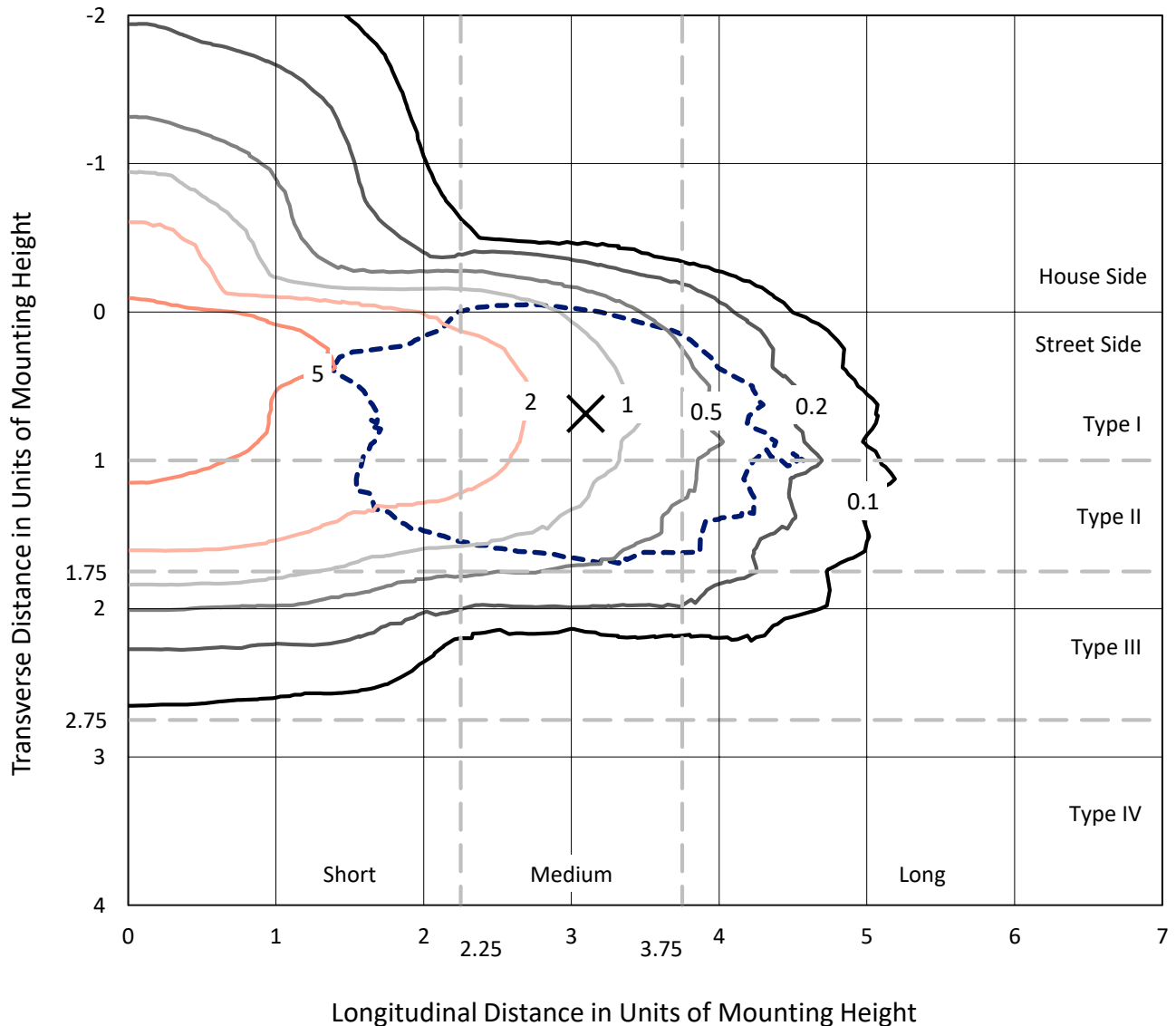


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

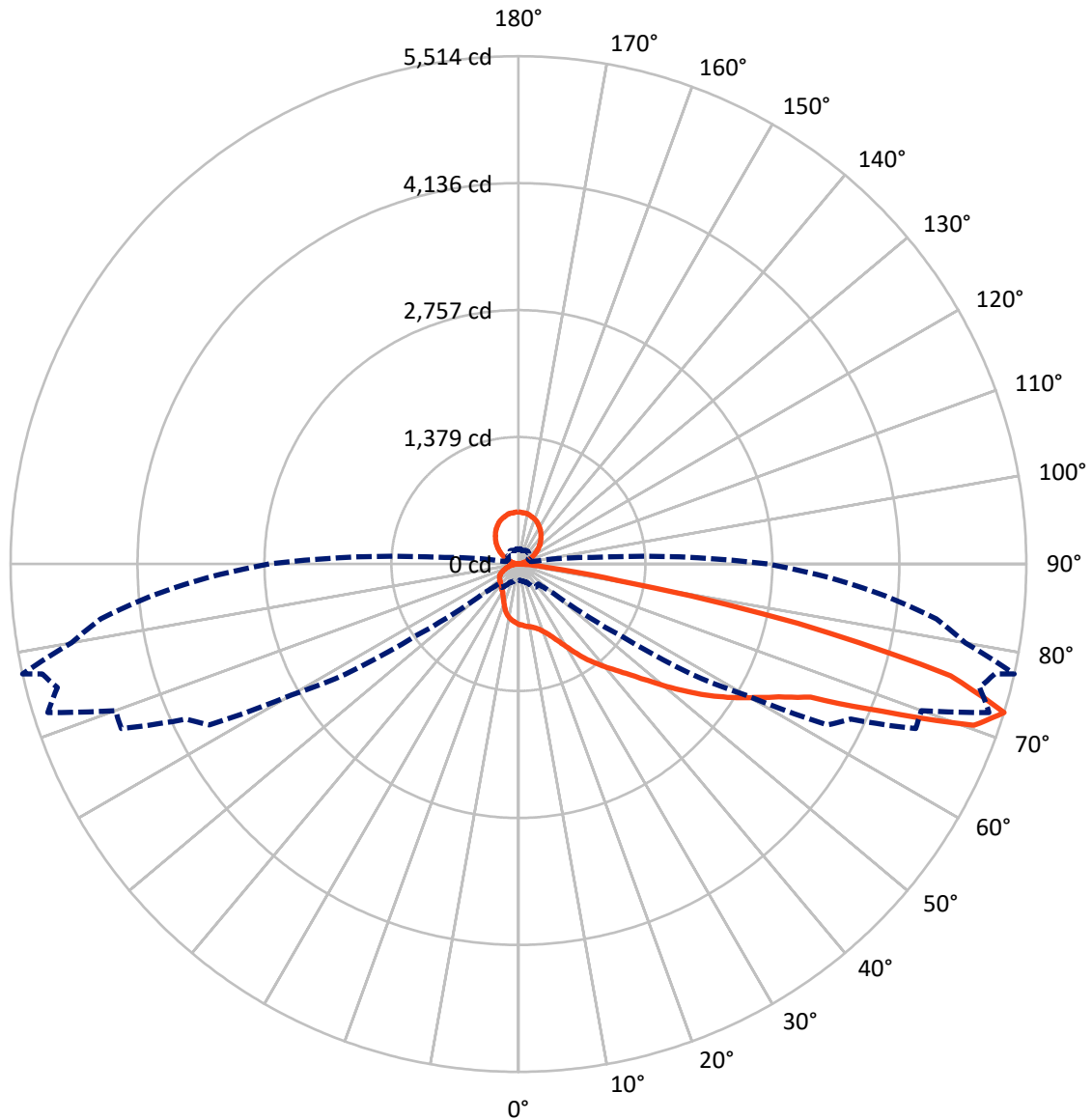


Based on 10 foot mounting height. Maximum calculated value = 8 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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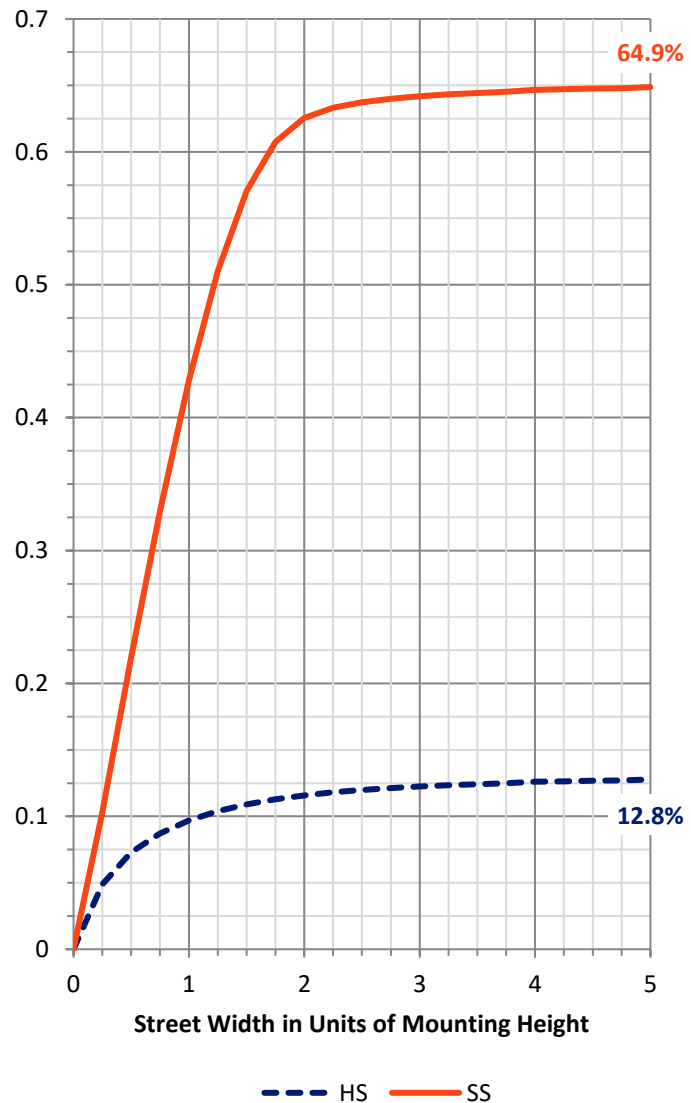
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 815.3 | 699.9 | 1515.1 |
| | % Fixture | 12.9 | 11.1 | 24.0 |
| Street Side | Lumens | 4104.9 | 699.9 | 4804.8 |
| | % Fixture | 65.0 | 11.1 | 76.0 |
| Total | Lumens | 4920.2 | 1399.8 | 6319.9 |
| | % Fixture | 77.9 | 22.1 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 61.0 | 1.0 |
| 10°-20° | 187.1 | 3.0 |
| 20°-30° | 332.1 | 5.3 |
| 30°-40° | 526.2 | 8.3 |
| 40°-50° | 789.5 | 12.5 |
| 50°-60° | 1023.0 | 16.2 |
| 60°-70° | 1162.4 | 18.4 |
| 70°-80° | 771.4 | 12.2 |
| 80°-90° | 67.5 | 1.1 |
| 90°-100° | 4.7 | 0.1 |
| 100°-110° | 67.7 | 1.1 |
| 110°-120° | 150.2 | 2.4 |
| 120°-130° | 219.7 | 3.5 |
| 130°-140° | 260.7 | 4.1 |
| 140°-150° | 264.3 | 4.2 |
| 150°-160° | 226.8 | 3.6 |
| 160°-170° | 152.2 | 2.4 |
| 170°-180° | 53.3 | 0.8 |
| 0°-90° | 4920.2 | 77.9 |
| 0°-180° | 6319.9 | 100.0 |



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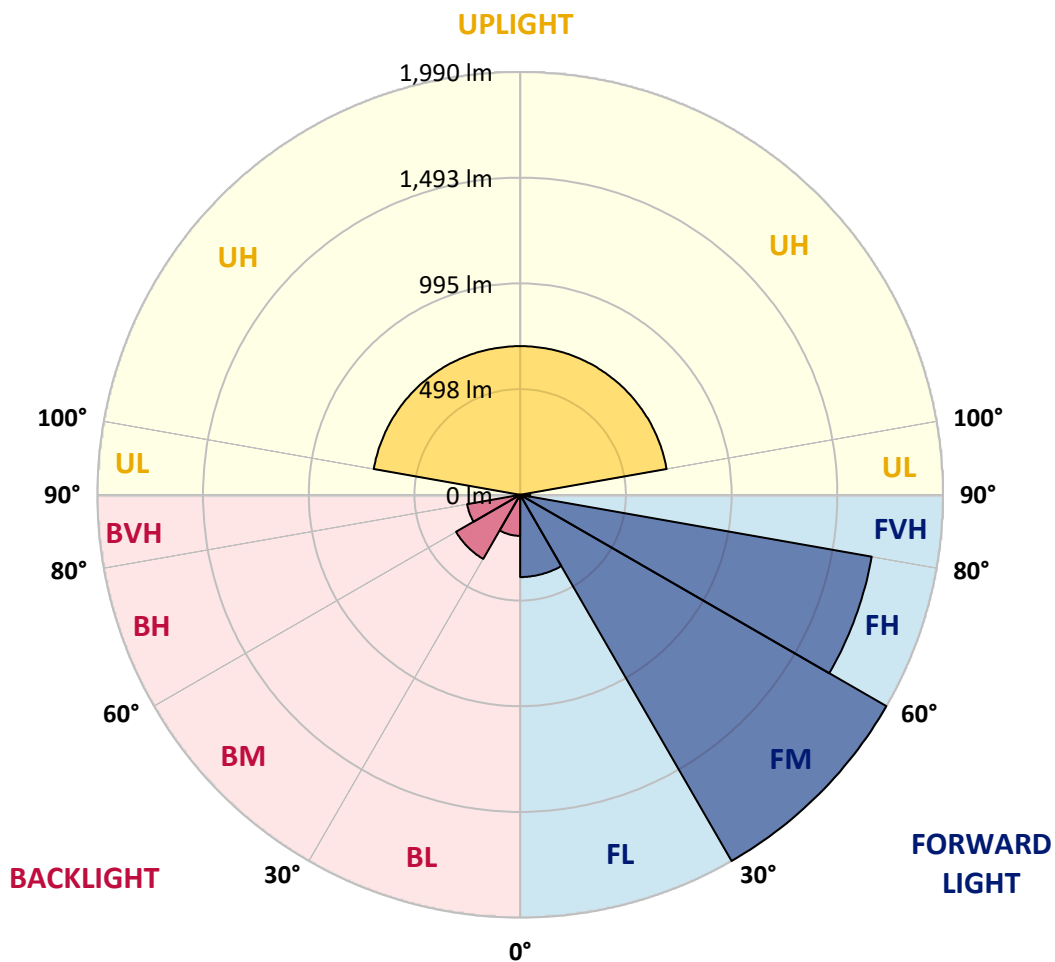
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|---------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 387.1 | 6.1 | | | |
| FM | (30°-60°) | 1990.5 | 31.5 | | | |
| FH | (60°-80°) | 1680.2 | 26.6 | | | G1/1800 |
| FVH | (80°-90°) | 47.1 | 0.7 | | | G1/100 |
| BL | (0°-30°) | 193.2 | 3.1 | B1/500 | | |
| BM | (30°-60°) | 348.2 | 5.5 | B1/1000 | | |
| BH | (60°-80°) | 253.5 | 4.0 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 20.3 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 4.7 | 0.1 | | U1/10 | |
| UH | (100°-180°) | 699.9 | 11.1 | | U4/1000 | |

BUG Rating: B1-U5-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 37.5° | 40° | 42.5° | 45° | 47.5° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 |
| 2.5° | 711.6 | 708.3 | 706.7 | 703.4 | 700.0 | 698.4 | 693.4 | 690.1 | 695.1 | 693.4 | 693.4 |
| 5° | 764.7 | 761.4 | 756.5 | 751.5 | 744.9 | 739.8 | 734.9 | 730.0 | 733.3 | 730.0 | 726.5 |
| 7.5° | 807.8 | 804.6 | 798.0 | 792.9 | 786.4 | 779.7 | 773.0 | 771.4 | 768.1 | 763.1 | 761.4 |
| 10° | 832.8 | 829.5 | 826.1 | 822.8 | 812.9 | 807.8 | 799.6 | 794.6 | 796.3 | 789.6 | 789.6 |
| 12.5° | 855.9 | 852.7 | 851.1 | 851.1 | 842.7 | 837.8 | 834.4 | 829.5 | 832.8 | 822.8 | 819.5 |
| 15° | 877.6 | 874.2 | 869.3 | 874.2 | 872.6 | 871.0 | 869.3 | 867.7 | 872.6 | 862.6 | 864.3 |
| 17.5° | 912.4 | 910.7 | 900.8 | 894.2 | 895.8 | 900.8 | 904.1 | 902.4 | 902.4 | 897.5 | 899.1 |
| 20° | 967.1 | 967.1 | 953.9 | 942.2 | 924.0 | 924.0 | 925.6 | 924.0 | 927.3 | 930.6 | 935.7 |
| 22.5° | 1008.5 | 1005.3 | 1000.4 | 990.4 | 970.5 | 953.9 | 953.9 | 947.3 | 952.2 | 953.9 | 963.8 |
| 25° | 1061.7 | 1058.5 | 1046.7 | 1046.7 | 1026.9 | 1005.3 | 1002.0 | 992.0 | 1003.7 | 982.0 | 998.6 |
| 27.5° | 1126.5 | 1123.2 | 1108.1 | 1101.5 | 1091.6 | 1065.0 | 1058.5 | 1060.0 | 1071.7 | 1040.1 | 1056.8 |
| 30° | 1207.7 | 1204.4 | 1186.1 | 1167.9 | 1151.3 | 1123.2 | 1119.7 | 1118.1 | 1144.6 | 1108.1 | 1129.7 |
| 32.5° | 1310.5 | 1310.5 | 1290.7 | 1265.7 | 1232.6 | 1194.5 | 1181.1 | 1182.8 | 1219.3 | 1179.5 | 1215.9 |
| 35° | 1466.4 | 1446.6 | 1410.1 | 1371.9 | 1337.0 | 1292.3 | 1274.1 | 1270.7 | 1303.9 | 1264.1 | 1305.6 |
| 37.5° | 1566.0 | 1552.7 | 1519.6 | 1491.4 | 1453.2 | 1410.1 | 1396.9 | 1401.7 | 1430.0 | 1371.9 | 1431.7 |
| 40° | 1655.6 | 1653.9 | 1632.4 | 1614.2 | 1576.0 | 1532.9 | 1549.5 | 1615.8 | 1690.4 | 1577.6 | 1579.3 |
| 42.5° | 1715.3 | 1718.6 | 1717.0 | 1718.6 | 1697.1 | 1652.3 | 1680.5 | 1773.3 | 1901.2 | 1834.8 | 1773.3 |
| 45° | 1725.3 | 1737.0 | 1741.8 | 1775.1 | 1796.6 | 1770.1 | 1785.0 | 1882.8 | 2138.3 | 2241.2 | 1964.1 |
| 47.5° | 1750.2 | 1761.8 | 1751.9 | 1791.6 | 1891.1 | 1889.6 | 1949.2 | 1985.7 | 2020.6 | 2037.2 | 2246.1 |
| 50° | 1783.3 | 1804.9 | 1794.9 | 1828.1 | 1909.3 | 1955.9 | 2007.4 | 2053.7 | 2025.5 | 1921.0 | 1977.3 |
| 52.5° | 1785.0 | 1809.8 | 1864.6 | 1897.8 | 1977.3 | 1967.5 | 2002.3 | 1977.3 | 2020.6 | 1912.7 | 1967.5 |
| 55° | 1639.0 | 1644.0 | 1803.3 | 1970.8 | 2110.1 | 2081.9 | 2060.4 | 2004.0 | 2058.7 | 1924.3 | 1994.0 |
| 57.5° | 1408.5 | 1425.0 | 1590.9 | 1872.9 | 2171.6 | 2196.4 | 2189.8 | 2184.8 | 2228.0 | 2048.8 | 2125.1 |
| 60° | 1154.6 | 1174.5 | 1332.1 | 1663.9 | 2043.7 | 2108.5 | 2198.1 | 2252.8 | 2364.0 | 2292.7 | 2418.7 |
| 62.5° | 720.0 | 734.9 | 909.1 | 1323.8 | 1803.3 | 1931.0 | 2062.0 | 2126.7 | 2287.6 | 2320.8 | 2534.7 |
| 65° | 343.4 | 348.4 | 416.4 | 720.0 | 1310.5 | 1551.0 | 1745.1 | 1882.8 | 2080.3 | 2229.5 | 2518.2 |
| 67.5° | 267.1 | 268.8 | 293.7 | 383.1 | 671.8 | 832.8 | 1053.4 | 1235.9 | 1446.6 | 1854.7 | 2213.0 |
| 70° | 214.0 | 214.0 | 233.9 | 282.0 | 416.4 | 437.9 | 494.3 | 555.7 | 645.3 | 973.9 | 1264.1 |
| 72.5° | 179.1 | 179.1 | 192.5 | 222.3 | 308.6 | 313.5 | 310.3 | 305.2 | 305.2 | 384.8 | 491.0 |
| 75° | 150.9 | 149.3 | 157.7 | 177.5 | 228.9 | 235.5 | 232.2 | 220.6 | 207.4 | 207.4 | 233.9 |
| 77.5° | 122.8 | 122.8 | 129.4 | 139.3 | 165.8 | 169.2 | 169.2 | 159.3 | 147.6 | 149.3 | 161.0 |
| 80° | 96.2 | 96.2 | 101.1 | 107.9 | 116.2 | 114.4 | 114.4 | 104.6 | 96.2 | 94.5 | 101.1 |
| 82.5° | 69.7 | 71.3 | 82.9 | 78.0 | 74.6 | 69.7 | 69.7 | 68.0 | 61.4 | 56.4 | 59.6 |
| 85° | 21.6 | 23.3 | 39.9 | 46.4 | 38.2 | 31.5 | 29.8 | 25.0 | 26.5 | 21.6 | 25.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 0.0 | 0.0 | 0.0 | 1.7 | 0.0 | 1.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 97.5° | 2.0 | 2.0 | 2.0 | 3.0 | 4.0 | 5.1 | 6.4 | 7.6 | 8.8 | 9.8 | 10.8 |
| 100° | 7.8 | 7.8 | 9.8 | 13.7 | 21.6 | 23.5 | 25.5 | 27.5 | 29.5 | 29.9 | 30.5 |
| 102.5° | 27.5 | 27.5 | 31.4 | 37.3 | 44.2 | 45.4 | 46.6 | 47.9 | 49.0 | 49.2 | 49.6 |
| 105° | 53.0 | 53.0 | 55.0 | 59.8 | 64.8 | 65.8 | 66.7 | 67.7 | 68.7 | 68.9 | 69.2 |
| 107.5° | 76.5 | 75.5 | 78.5 | 82.5 | 86.3 | 87.1 | 87.9 | 88.6 | 89.3 | 89.8 | 90.3 |
| 110° | 99.2 | 100.1 | 101.1 | 104.0 | 108.0 | 108.4 | 109.0 | 109.4 | 110.0 | 110.4 | 110.9 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 37.5° | 40° | 42.5° | 45° | 47.5° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 121.7 | 121.7 | 123.7 | 126.6 | 129.5 | 130.1 | 130.5 | 131.1 | 131.5 | 132.1 | 132.5 |
| 115° | 143.3 | 144.3 | 146.2 | 148.2 | 151.2 | 151.6 | 152.2 | 152.6 | 153.1 | 153.6 | 154.1 |
| 117.5° | 165.8 | 166.8 | 168.8 | 170.8 | 173.7 | 174.2 | 174.7 | 175.2 | 175.7 | 175.9 | 176.2 |
| 120° | 189.5 | 191.4 | 192.3 | 194.3 | 197.3 | 197.4 | 197.8 | 198.1 | 198.3 | 198.7 | 199.2 |
| 122.5° | 215.0 | 216.0 | 216.9 | 218.8 | 221.8 | 222.0 | 222.3 | 222.6 | 222.8 | 223.0 | 223.3 |
| 125° | 239.5 | 241.5 | 242.5 | 243.4 | 246.3 | 246.6 | 246.9 | 247.1 | 247.3 | 247.6 | 247.8 |
| 127.5° | 262.0 | 264.0 | 265.0 | 267.0 | 269.0 | 269.4 | 269.9 | 270.4 | 270.9 | 271.4 | 271.8 |
| 130° | 284.7 | 286.6 | 287.5 | 288.5 | 292.5 | 292.7 | 292.9 | 293.3 | 293.5 | 293.9 | 294.5 |
| 132.5° | 307.2 | 308.2 | 311.2 | 312.1 | 315.0 | 315.2 | 315.6 | 315.8 | 316.0 | 316.8 | 317.6 |
| 135° | 329.8 | 330.8 | 332.7 | 334.7 | 338.6 | 338.6 | 338.6 | 338.6 | 338.6 | 339.4 | 340.1 |
| 137.5° | 352.3 | 353.3 | 356.3 | 357.3 | 360.2 | 360.2 | 360.2 | 360.2 | 360.2 | 360.7 | 361.2 |
| 140° | 375.0 | 375.9 | 377.8 | 378.8 | 380.8 | 381.0 | 381.3 | 381.6 | 381.8 | 382.0 | 382.3 |
| 142.5° | 396.5 | 398.5 | 400.5 | 399.5 | 402.4 | 402.4 | 402.4 | 402.4 | 402.4 | 402.9 | 403.4 |
| 145° | 417.2 | 418.1 | 420.0 | 420.0 | 423.0 | 423.2 | 423.6 | 423.8 | 424.0 | 424.4 | 425.0 |
| 147.5° | 435.8 | 435.8 | 438.7 | 439.7 | 443.7 | 443.9 | 444.1 | 444.4 | 444.6 | 444.8 | 445.1 |
| 150° | 452.5 | 453.5 | 455.4 | 456.4 | 460.3 | 460.5 | 460.8 | 461.1 | 461.3 | 461.5 | 461.8 |
| 152.5° | 470.2 | 471.1 | 474.0 | 473.0 | 476.0 | 476.2 | 476.6 | 476.8 | 477.0 | 477.2 | 477.4 |
| 155° | 489.8 | 490.7 | 492.7 | 491.7 | 493.7 | 493.7 | 493.7 | 493.7 | 493.7 | 493.9 | 494.2 |
| 157.5° | 503.5 | 505.5 | 507.5 | 506.5 | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 |
| 160° | 515.3 | 517.2 | 519.2 | 519.2 | 522.2 | 522.2 | 522.2 | 522.2 | 522.2 | 522.2 | 522.2 |
| 162.5° | 525.1 | 526.0 | 529.0 | 528.0 | 531.0 | 531.0 | 531.0 | 531.0 | 531.0 | 531.2 | 531.4 |
| 165° | 535.9 | 536.8 | 538.8 | 537.8 | 541.8 | 541.8 | 541.8 | 541.8 | 541.8 | 541.9 | 542.3 |
| 167.5° | 544.7 | 545.7 | 548.7 | 547.7 | 550.6 | 550.4 | 550.1 | 549.9 | 549.7 | 549.7 | 549.7 |
| 170° | 551.6 | 552.5 | 555.5 | 554.5 | 556.5 | 556.3 | 556.1 | 555.7 | 555.5 | 555.3 | 555.1 |
| 172.5° | 554.5 | 555.5 | 558.5 | 556.5 | 558.5 | 558.3 | 557.9 | 557.7 | 557.5 | 557.7 | 557.9 |
| 175° | 556.5 | 558.5 | 559.5 | 558.5 | 561.4 | 561.4 | 561.4 | 561.4 | 561.4 | 561.6 | 561.9 |
| 177.5° | 561.4 | 562.4 | 564.3 | 563.3 | 567.3 | 567.1 | 566.8 | 566.5 | 566.3 | 566.3 | 566.3 |
| 180° | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 |



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CANDELA DISTRIBUTION (continued):

| | 52.5° | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° | 75° | 77° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 |
| 2.5° | 685.1 | 688.4 | 681.8 | 681.8 | 673.5 | 678.5 | 670.1 | 671.8 | 663.6 | 666.9 | 666.9 |
| 5° | 718.4 | 720.0 | 711.6 | 708.3 | 700.0 | 700.0 | 691.8 | 691.8 | 680.2 | 683.5 | 680.2 |
| 7.5° | 749.8 | 749.8 | 741.6 | 734.9 | 726.5 | 723.2 | 713.3 | 708.3 | 698.4 | 696.7 | 691.8 |
| 10° | 776.3 | 776.3 | 764.7 | 758.1 | 748.2 | 743.2 | 730.0 | 724.9 | 713.3 | 705.0 | 700.0 |
| 12.5° | 809.6 | 806.2 | 792.9 | 786.4 | 769.8 | 768.1 | 748.2 | 744.9 | 728.3 | 723.2 | 715.1 |
| 15° | 849.3 | 852.7 | 831.1 | 829.5 | 806.2 | 804.6 | 778.0 | 776.3 | 751.5 | 749.8 | 738.1 |
| 17.5° | 892.5 | 899.1 | 880.9 | 879.2 | 851.1 | 851.1 | 819.5 | 817.9 | 784.7 | 783.1 | 768.1 |
| 20° | 930.6 | 939.0 | 927.3 | 930.6 | 905.9 | 907.4 | 872.6 | 872.6 | 826.1 | 822.8 | 809.6 |
| 22.5° | 965.5 | 982.0 | 972.1 | 990.4 | 965.5 | 977.1 | 930.6 | 939.0 | 884.2 | 877.6 | 857.6 |
| 25° | 1000.4 | 1021.9 | 1018.6 | 1048.4 | 1030.2 | 1050.1 | 1002.0 | 1018.6 | 947.3 | 952.2 | 925.6 |
| 27.5° | 1035.2 | 1063.3 | 1060.0 | 1103.2 | 1096.5 | 1136.4 | 1094.9 | 1113.1 | 1035.2 | 1040.1 | 1010.2 |
| 30° | 1093.1 | 1124.8 | 1113.1 | 1157.9 | 1157.9 | 1222.6 | 1191.2 | 1219.3 | 1133.0 | 1143.0 | 1108.1 |
| 32.5° | 1171.2 | 1207.7 | 1172.8 | 1230.9 | 1227.6 | 1312.2 | 1287.3 | 1335.4 | 1250.8 | 1264.1 | 1221.0 |
| 35° | 1255.8 | 1313.8 | 1257.4 | 1322.1 | 1312.2 | 1400.1 | 1383.5 | 1461.5 | 1371.9 | 1386.8 | 1343.8 |
| 37.5° | 1367.0 | 1436.6 | 1362.0 | 1418.3 | 1373.6 | 1474.7 | 1464.9 | 1571.0 | 1479.8 | 1517.9 | 1466.4 |
| 40° | 1498.0 | 1552.7 | 1459.8 | 1508.0 | 1433.2 | 1537.8 | 1521.2 | 1667.3 | 1582.6 | 1644.0 | 1597.5 |
| 42.5° | 1619.0 | 1657.2 | 1534.5 | 1594.2 | 1504.6 | 1610.8 | 1580.9 | 1756.7 | 1683.9 | 1778.4 | 1726.9 |
| 45° | 1728.6 | 1771.6 | 1609.1 | 1675.5 | 1576.0 | 1692.0 | 1640.7 | 1843.1 | 1793.3 | 1935.9 | 1884.6 |
| 47.5° | 1884.6 | 1821.5 | 1677.1 | 1763.5 | 1652.3 | 1780.0 | 1712.0 | 1944.2 | 1926.0 | 2128.4 | 2068.7 |
| 50° | 1833.1 | 1874.5 | 1733.5 | 1823.1 | 1721.9 | 1877.9 | 1803.3 | 2065.3 | 2070.3 | 2337.4 | 2302.5 |
| 52.5° | 1838.1 | 1907.7 | 1776.7 | 1901.2 | 1803.3 | 2013.9 | 1935.9 | 2211.4 | 2234.5 | 2539.8 | 2491.7 |
| 55° | 1867.9 | 1970.8 | 1841.3 | 2008.9 | 1917.7 | 2164.8 | 2110.1 | 2368.9 | 2408.7 | 2730.6 | 2702.4 |
| 57.5° | 1942.6 | 2085.2 | 1952.6 | 2171.6 | 2076.9 | 2337.4 | 2287.6 | 2531.5 | 2586.2 | 2921.4 | 2913.0 |
| 60° | 2229.5 | 2398.7 | 2166.5 | 2408.7 | 2282.6 | 2533.2 | 2466.7 | 2702.4 | 2757.1 | 3103.8 | 3125.5 |
| 62.5° | 2549.7 | 2843.3 | 2705.7 | 2957.8 | 2624.4 | 2878.2 | 2682.5 | 2913.0 | 2916.3 | 3299.6 | 3367.6 |
| 65° | 2632.8 | 3083.9 | 3201.6 | 3671.1 | 3497.0 | 3757.4 | 3234.9 | 3389.1 | 3190.2 | 3656.2 | 3754.1 |
| 67.5° | 2601.2 | 3153.6 | 3480.4 | 4009.6 | 4207.0 | 4661.6 | 4573.6 | 4520.5 | 4059.4 | 4394.5 | 4512.3 |
| 70° | 1909.3 | 2495.0 | 3294.6 | 3832.1 | 4401.1 | 4699.8 | 5172.5 | 5220.6 | 5200.6 | 5154.3 | 5232.2 |
| 72.5° | 869.3 | 1363.6 | 2229.5 | 2843.3 | 3782.3 | 3983.1 | 4668.2 | 4654.8 | 5358.3 | 5184.1 | 5306.8 |
| 75° | 341.7 | 525.9 | 1061.7 | 1587.6 | 2616.1 | 2863.3 | 3639.7 | 3447.2 | 4324.8 | 4069.3 | 4331.4 |
| 77.5° | 187.5 | 235.5 | 398.2 | 681.8 | 1428.3 | 1559.4 | 2228.0 | 1906.1 | 2682.5 | 2239.6 | 2327.5 |
| 80° | 112.7 | 141.0 | 182.4 | 258.8 | 607.2 | 642.0 | 950.6 | 766.4 | 1096.5 | 832.8 | 807.8 |
| 82.5° | 61.4 | 76.3 | 91.3 | 127.6 | 225.7 | 250.4 | 328.5 | 295.4 | 351.7 | 300.2 | 293.7 |
| 85° | 25.0 | 33.1 | 34.9 | 51.5 | 74.6 | 86.2 | 104.6 | 112.7 | 137.7 | 126.1 | 122.8 |
| 87.5° | 0.0 | 1.7 | 0.0 | 3.3 | 0.0 | 3.3 | 0.0 | 5.0 | 5.0 | 8.4 | 9.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 97.5° | 11.8 | 12.8 | 11.3 | 9.8 | 8.4 | 6.8 | 6.4 | 5.9 | 5.4 | 4.9 | 4.7 |
| 100° | 30.9 | 31.4 | 30.9 | 30.5 | 29.9 | 29.5 | 28.7 | 27.9 | 27.3 | 26.5 | 26.3 |
| 102.5° | 49.9 | 50.0 | 49.9 | 49.6 | 49.2 | 49.0 | 48.6 | 48.1 | 47.6 | 47.1 | 47.3 |
| 105° | 69.5 | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 | 69.2 | 68.7 | 68.2 | 67.7 | 68.1 |
| 107.5° | 90.8 | 91.3 | 91.1 | 90.8 | 90.5 | 90.3 | 90.1 | 89.8 | 89.5 | 89.3 | 89.5 |
| 110° | 111.4 | 111.9 | 111.9 | 111.9 | 111.9 | 111.9 | 111.7 | 111.4 | 111.1 | 110.9 | 111.1 |



REPORT NUMBER: P271607

CATALOG NUMBER: ISS-AF-1000-LED-E1-T2-7027-ULG

CANDELA DISTRIBUTION (continued):

| | 52.5° | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° | 75° | 77° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 132.9 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.3 | 132.9 | 132.7 | 132.5 | 132.9 |
| 115° | 154.6 | 155.0 | 155.0 | 155.0 | 155.0 | 155.0 | 155.0 | 155.0 | 155.0 | 155.0 | 155.5 |
| 117.5° | 176.4 | 176.7 | 176.9 | 177.1 | 177.4 | 177.7 | 177.4 | 177.1 | 176.9 | 176.7 | 177.1 |
| 120° | 199.7 | 200.2 | 200.2 | 200.2 | 200.2 | 200.2 | 200.2 | 200.2 | 200.2 | 200.2 | 200.6 |
| 122.5° | 223.6 | 223.8 | 223.8 | 223.8 | 223.8 | 223.8 | 223.9 | 224.3 | 224.6 | 224.8 | 225.6 |
| 125° | 248.1 | 248.3 | 248.5 | 248.8 | 249.1 | 249.3 | 249.3 | 249.3 | 249.3 | 249.3 | 249.9 |
| 127.5° | 272.4 | 272.8 | 272.6 | 272.4 | 272.1 | 271.8 | 272.1 | 272.4 | 272.6 | 272.8 | 273.4 |
| 130° | 294.9 | 295.5 | 295.5 | 295.5 | 295.5 | 295.5 | 295.6 | 295.9 | 296.2 | 296.4 | 297.0 |
| 132.5° | 318.2 | 319.0 | 319.0 | 319.0 | 319.0 | 319.0 | 319.2 | 319.4 | 319.8 | 320.0 | 320.5 |
| 135° | 340.7 | 341.5 | 341.5 | 341.5 | 341.5 | 341.5 | 341.7 | 342.1 | 342.3 | 342.5 | 343.0 |
| 137.5° | 361.7 | 362.2 | 362.2 | 362.2 | 362.2 | 362.2 | 362.4 | 362.6 | 362.9 | 363.2 | 363.9 |
| 140° | 382.6 | 382.8 | 382.8 | 382.8 | 382.8 | 382.8 | 383.3 | 383.8 | 384.3 | 384.7 | 385.6 |
| 142.5° | 403.9 | 404.3 | 404.3 | 404.3 | 404.3 | 404.3 | 404.6 | 404.9 | 405.1 | 405.3 | 405.9 |
| 145° | 425.4 | 426.0 | 425.8 | 425.4 | 425.2 | 425.0 | 425.2 | 425.4 | 425.8 | 426.0 | 426.5 |
| 147.5° | 445.4 | 445.6 | 445.1 | 444.6 | 444.1 | 443.7 | 443.9 | 444.1 | 444.4 | 444.6 | 445.2 |
| 150° | 462.1 | 462.3 | 461.8 | 461.3 | 460.8 | 460.3 | 460.3 | 460.3 | 460.3 | 460.3 | 461.1 |
| 152.5° | 477.8 | 478.0 | 477.8 | 477.4 | 477.2 | 477.0 | 477.0 | 477.0 | 477.0 | 477.0 | 477.6 |
| 155° | 494.4 | 494.7 | 494.4 | 494.2 | 493.9 | 493.7 | 493.9 | 494.2 | 494.4 | 494.7 | 495.2 |
| 157.5° | 509.4 | 509.4 | 508.9 | 508.4 | 507.9 | 507.5 | 507.6 | 507.9 | 508.2 | 508.4 | 509.4 |
| 160° | 522.2 | 522.2 | 521.6 | 521.2 | 520.7 | 520.2 | 520.2 | 520.2 | 520.2 | 520.2 | 520.7 |
| 162.5° | 531.8 | 532.0 | 531.4 | 531.0 | 530.4 | 530.0 | 529.6 | 529.0 | 528.6 | 528.0 | 528.5 |
| 165° | 542.6 | 542.8 | 541.9 | 541.3 | 540.6 | 539.8 | 539.3 | 538.8 | 538.4 | 537.8 | 538.3 |
| 167.5° | 549.7 | 549.7 | 549.1 | 548.7 | 548.1 | 547.7 | 547.9 | 548.1 | 548.4 | 548.7 | 549.4 |
| 170° | 554.7 | 554.5 | 554.3 | 554.1 | 553.7 | 553.5 | 554.1 | 554.5 | 555.1 | 555.5 | 556.5 |
| 172.5° | 558.3 | 558.5 | 557.9 | 557.5 | 556.9 | 556.5 | 556.7 | 556.9 | 557.3 | 557.5 | 558.0 |
| 175° | 562.2 | 562.4 | 561.6 | 560.9 | 560.3 | 559.5 | 558.9 | 558.5 | 557.9 | 557.5 | 558.0 |
| 177.5° | 566.3 | 566.3 | 565.6 | 564.9 | 564.1 | 563.3 | 563.3 | 563.3 | 563.3 | 563.3 | 564.0 |
| 180° | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 |



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CATALOG NUMBER: ISS-AF-1000-LED-E1-T2-7027-ULG

CANDELA DISTRIBUTION (continued):

| | 77.5° | 80° | 82.5° | 85° | 87.5° | 90° | 95° | 100° | 102.5° | 105° | 107.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|
| 0° | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 |
| 2.5° | 661.9 | 666.9 | 660.3 | 660.3 | 652.0 | 656.9 | 652.0 | 647.0 | 638.7 | 640.3 | 628.7 |
| 5° | 673.5 | 676.9 | 668.6 | 665.3 | 660.3 | 658.5 | 648.7 | 638.7 | 627.1 | 627.1 | 613.8 |
| 7.5° | 685.1 | 685.1 | 673.5 | 673.5 | 661.9 | 658.5 | 643.6 | 627.1 | 610.5 | 608.8 | 588.9 |
| 10° | 691.8 | 690.1 | 675.2 | 675.2 | 658.5 | 656.9 | 638.7 | 613.8 | 590.5 | 584.0 | 555.7 |
| 12.5° | 705.0 | 703.4 | 685.1 | 681.8 | 660.3 | 660.3 | 633.8 | 600.6 | 567.4 | 555.7 | 516.0 |
| 15° | 721.6 | 723.2 | 701.8 | 696.7 | 671.8 | 670.1 | 633.8 | 584.0 | 539.2 | 520.8 | 472.8 |
| 17.5° | 748.2 | 749.8 | 720.0 | 715.1 | 685.1 | 680.2 | 635.4 | 564.0 | 501.0 | 481.1 | 437.9 |
| 20° | 783.1 | 778.0 | 738.1 | 736.6 | 696.7 | 691.8 | 633.8 | 534.1 | 462.9 | 443.0 | 404.8 |
| 22.5° | 826.1 | 821.2 | 769.8 | 764.7 | 718.4 | 710.0 | 632.0 | 502.6 | 428.0 | 406.4 | 381.5 |
| 25° | 885.9 | 879.2 | 816.2 | 809.6 | 751.5 | 738.1 | 630.4 | 469.5 | 398.2 | 381.5 | 366.6 |
| 27.5° | 960.5 | 947.3 | 871.0 | 864.3 | 786.4 | 769.8 | 623.7 | 431.4 | 368.2 | 356.6 | 350.0 |
| 30° | 1050.1 | 1038.5 | 940.5 | 930.6 | 832.8 | 811.2 | 617.1 | 396.5 | 346.7 | 341.7 | 336.8 |
| 32.5° | 1156.3 | 1144.6 | 1025.2 | 1013.6 | 892.5 | 860.9 | 605.5 | 368.2 | 333.5 | 333.5 | 326.8 |
| 35° | 1267.4 | 1257.4 | 1116.4 | 1108.1 | 958.9 | 917.3 | 590.5 | 343.4 | 321.9 | 321.9 | 315.1 |
| 37.5° | 1367.0 | 1375.2 | 1215.9 | 1209.4 | 1025.2 | 973.9 | 573.9 | 326.8 | 311.9 | 308.6 | 301.9 |
| 40° | 1474.7 | 1494.7 | 1308.9 | 1313.8 | 1094.9 | 1033.5 | 554.1 | 313.5 | 300.2 | 296.9 | 295.4 |
| 42.5° | 1584.3 | 1622.4 | 1406.7 | 1425.0 | 1164.6 | 1094.9 | 539.2 | 305.2 | 295.4 | 288.6 | 287.0 |
| 45° | 1720.3 | 1775.1 | 1527.8 | 1562.7 | 1245.8 | 1169.5 | 534.1 | 295.4 | 280.3 | 272.1 | 267.1 |
| 47.5° | 1889.6 | 1962.4 | 1677.1 | 1717.0 | 1353.7 | 1259.2 | 544.1 | 291.9 | 270.4 | 260.5 | 250.4 |
| 50° | 2090.3 | 2160.0 | 1854.7 | 1871.3 | 1474.7 | 1357.0 | 565.8 | 296.9 | 267.1 | 252.2 | 237.2 |
| 52.5° | 2302.5 | 2355.6 | 2042.2 | 2023.9 | 1600.9 | 1453.2 | 590.5 | 298.6 | 258.8 | 243.9 | 225.7 |
| 55° | 2521.5 | 2551.4 | 2216.3 | 2168.1 | 1715.3 | 1549.5 | 623.7 | 296.9 | 252.2 | 235.5 | 212.3 |
| 57.5° | 2735.6 | 2745.5 | 2370.5 | 2324.2 | 1828.1 | 1663.9 | 665.3 | 291.9 | 242.3 | 225.7 | 200.7 |
| 60° | 2944.6 | 2961.2 | 2541.5 | 2498.4 | 1950.8 | 1811.5 | 724.9 | 283.7 | 228.9 | 217.3 | 190.8 |
| 62.5° | 3173.5 | 3228.3 | 2745.5 | 2752.1 | 2120.1 | 2042.2 | 837.8 | 273.7 | 215.6 | 202.4 | 175.9 |
| 65° | 3485.3 | 3694.4 | 3082.3 | 3238.2 | 2445.3 | 2476.8 | 1053.4 | 245.6 | 197.4 | 180.8 | 162.5 |
| 67.5° | 4266.7 | 4495.7 | 3900.1 | 3963.1 | 3206.7 | 3019.2 | 1189.4 | 209.0 | 174.2 | 162.5 | 150.9 |
| 70° | 5245.5 | 5081.3 | 4658.3 | 4276.7 | 3651.3 | 3103.8 | 1046.7 | 175.9 | 154.3 | 147.6 | 141.0 |
| 72.5° | 5514.2 | 4925.2 | 4577.0 | 4004.6 | 3375.9 | 2707.3 | 801.3 | 150.9 | 137.7 | 134.4 | 129.4 |
| 75° | 4845.6 | 3993.0 | 4012.9 | 3181.8 | 2798.6 | 2063.7 | 547.4 | 129.4 | 119.5 | 117.8 | 116.2 |
| 77.5° | 3098.8 | 2052.1 | 2498.4 | 1572.7 | 1615.8 | 955.5 | 267.1 | 107.9 | 102.9 | 102.9 | 99.5 |
| 80° | 1101.5 | 683.5 | 773.0 | 496.0 | 451.2 | 303.5 | 144.3 | 86.2 | 82.9 | 84.6 | 82.9 |
| 82.5° | 330.1 | 262.1 | 257.2 | 200.7 | 155.9 | 127.6 | 79.6 | 66.4 | 63.0 | 64.7 | 61.4 |
| 85° | 132.7 | 102.9 | 86.2 | 66.4 | 54.8 | 49.8 | 43.1 | 44.7 | 39.9 | 43.1 | 38.2 |
| 87.5° | 8.4 | 6.6 | 5.0 | 6.6 | 0.0 | 3.3 | 8.4 | 6.6 | 1.7 | 6.6 | 5.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 97.5° | 4.7 | 4.4 | 4.1 | 4.0 | 4.0 | 4.0 | 4.0 | 4.4 | 4.7 | 4.9 | 5.4 |
| 100° | 26.3 | 26.1 | 25.7 | 25.5 | 25.1 | 24.5 | 25.5 | 26.1 | 26.3 | 26.5 | 27.3 |
| 102.5° | 47.3 | 47.6 | 47.9 | 48.1 | 47.6 | 47.1 | 48.1 | 47.6 | 47.3 | 47.1 | 47.6 |
| 105° | 68.2 | 68.7 | 69.2 | 69.7 | 68.7 | 67.7 | 69.7 | 68.7 | 68.2 | 67.7 | 68.2 |
| 107.5° | 89.5 | 89.8 | 90.1 | 90.3 | 89.8 | 89.3 | 90.3 | 89.8 | 89.5 | 89.3 | 89.5 |
| 110° | 111.1 | 111.4 | 111.7 | 111.9 | 111.4 | 110.9 | 111.9 | 111.4 | 111.1 | 110.9 | 111.1 |



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

| | 77.5° | 80° | 82.5° | 85° | 87.5° | 90° | 95° | 100° | 102.5° | 105° | 107.5° | |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|--------|
| 112.5° | 132.9 | 133.5 | 133.9 | 134.5 | 133.5 | 132.5 | 134.5 | 133.5 | 132.9 | 132.5 | 132.7 | 0° |
| 115° | 155.6 | 156.0 | 156.6 | 157.0 | 156.6 | 156.0 | 157.0 | 156.0 | 155.6 | 155.0 | 155.0 | 2.5° |
| 117.5° | 177.1 | 177.7 | 178.1 | 178.7 | 177.7 | 176.7 | 178.7 | 177.7 | 177.1 | 176.7 | 176.9 | 5° |
| 120° | 200.7 | 201.2 | 201.7 | 202.2 | 201.2 | 200.2 | 202.2 | 201.2 | 200.7 | 200.2 | 200.2 | 7.5° |
| 122.5° | 225.7 | 226.7 | 227.7 | 228.7 | 228.2 | 227.7 | 228.7 | 226.7 | 225.7 | 224.8 | 224.6 | 10° |
| 125° | 250.1 | 250.8 | 251.4 | 252.2 | 251.7 | 251.3 | 252.2 | 250.8 | 250.1 | 249.3 | 249.3 | 12.5° |
| 127.5° | 273.6 | 274.3 | 275.0 | 275.8 | 274.3 | 272.8 | 275.8 | 274.3 | 273.6 | 272.8 | 272.6 | 15° |
| 130° | 297.2 | 297.9 | 298.6 | 299.3 | 298.3 | 297.4 | 299.3 | 297.9 | 297.2 | 296.4 | 296.2 | 17.5° |
| 132.5° | 320.8 | 321.4 | 322.1 | 322.9 | 322.0 | 321.0 | 322.9 | 321.4 | 320.8 | 320.0 | 319.8 | 20° |
| 135° | 343.1 | 343.5 | 344.1 | 344.5 | 344.1 | 343.5 | 344.5 | 343.5 | 343.1 | 342.5 | 342.3 | 22.5° |
| 137.5° | 364.2 | 365.1 | 366.1 | 367.0 | 366.1 | 365.1 | 367.0 | 365.1 | 364.2 | 363.2 | 362.9 | 25° |
| 140° | 385.7 | 386.7 | 387.7 | 388.7 | 387.7 | 386.7 | 388.7 | 386.7 | 385.7 | 384.7 | 384.3 | 27.5° |
| 142.5° | 406.1 | 406.8 | 407.5 | 408.3 | 407.8 | 407.3 | 408.3 | 406.8 | 406.1 | 405.3 | 405.1 | 30° |
| 145° | 426.8 | 427.4 | 428.1 | 428.9 | 428.0 | 427.0 | 428.9 | 427.4 | 426.8 | 426.0 | 425.8 | 32.5° |
| 147.5° | 445.4 | 446.1 | 446.7 | 447.5 | 446.1 | 444.6 | 447.5 | 446.1 | 445.4 | 444.6 | 444.4 | 35° |
| 150° | 461.3 | 462.3 | 463.3 | 464.2 | 462.8 | 461.3 | 464.2 | 462.3 | 461.3 | 460.3 | 460.3 | 37.5° |
| 152.5° | 477.8 | 478.4 | 479.2 | 480.0 | 478.4 | 477.0 | 480.0 | 478.4 | 477.8 | 477.0 | 477.0 | 40° |
| 155° | 495.4 | 496.1 | 496.9 | 497.6 | 496.7 | 495.7 | 497.6 | 496.1 | 495.4 | 494.7 | 494.4 | 42.5° |
| 157.5° | 509.6 | 510.9 | 512.1 | 513.3 | 511.9 | 510.3 | 513.3 | 510.9 | 509.6 | 508.4 | 508.2 | 45° |
| 160° | 520.9 | 521.6 | 522.4 | 523.2 | 522.2 | 521.2 | 523.2 | 521.6 | 520.9 | 520.2 | 520.2 | 47.5° |
| 162.5° | 528.6 | 529.0 | 529.6 | 530.0 | 528.6 | 527.0 | 530.0 | 529.0 | 528.6 | 528.0 | 528.6 | 50° |
| 165° | 538.4 | 538.8 | 539.3 | 539.8 | 538.8 | 537.8 | 539.8 | 538.8 | 538.4 | 537.8 | 538.4 | 52.5° |
| 167.5° | 549.7 | 550.6 | 551.6 | 552.5 | 551.6 | 550.6 | 552.5 | 550.6 | 549.7 | 548.7 | 548.4 | 55° |
| 170° | 556.7 | 557.9 | 559.3 | 560.5 | 559.5 | 558.5 | 560.5 | 557.9 | 556.7 | 555.5 | 555.1 | 57.5° |
| 172.5° | 558.3 | 558.9 | 559.6 | 560.5 | 558.9 | 557.5 | 560.5 | 558.9 | 558.3 | 557.5 | 557.3 | 60° |
| 175° | 558.3 | 558.9 | 559.6 | 560.5 | 558.9 | 557.5 | 560.5 | 558.9 | 558.3 | 557.5 | 557.9 | 62.5° |
| 177.5° | 564.1 | 564.9 | 565.6 | 566.3 | 564.9 | 563.3 | 566.3 | 564.9 | 564.1 | 563.3 | 563.3 | 65° |
| 180° | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 67.5° |
| | | | | | | | | | | | | 70° |
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| | | | | | | | | | | | | 110° |

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REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

| 110° | 112.5° | 115° | 117.5° | 120° | 122.5° | 125° | 127.5° | 130° | 135° | 145° | 110° | |
|-------|--------|-------|--------|-------|--------|-------|--------|-------|-------|-------|--------|-------|
| 656.9 | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 | 656.9 | 112.5° | 132.9 |
| 637.0 | 625.4 | 630.4 | 625.4 | 628.7 | 618.8 | 622.1 | 613.8 | 613.8 | 612.1 | 603.8 | 115° | 155.0 |
| 615.5 | 603.8 | 602.1 | 590.5 | 592.3 | 579.0 | 577.3 | 562.4 | 562.4 | 549.1 | 524.3 | 117.5° | 177.1 |
| 585.5 | 567.4 | 565.8 | 542.5 | 540.8 | 522.5 | 516.0 | 499.4 | 497.8 | 482.7 | 467.7 | 120° | 200.2 |
| 547.4 | 519.2 | 514.3 | 484.4 | 486.1 | 466.1 | 464.5 | 452.8 | 452.8 | 446.3 | 446.3 | 122.5° | 224.3 |
| 504.3 | 472.8 | 469.5 | 446.3 | 448.0 | 434.6 | 436.3 | 429.7 | 432.9 | 436.3 | 448.0 | 125° | 249.3 |
| 464.5 | 439.6 | 436.3 | 421.3 | 423.0 | 419.7 | 424.7 | 424.7 | 429.7 | 437.9 | 457.9 | 127.5° | 272.4 |
| 431.4 | 409.8 | 411.4 | 404.8 | 411.4 | 409.8 | 419.7 | 418.0 | 428.0 | 437.9 | 462.9 | 130° | 295.9 |
| 401.5 | 389.9 | 394.9 | 393.2 | 401.5 | 401.5 | 409.8 | 411.4 | 419.7 | 432.9 | 461.2 | 132.5° | 319.4 |
| 381.5 | 378.3 | 383.1 | 383.1 | 389.9 | 391.5 | 399.7 | 404.8 | 409.8 | 423.0 | 448.0 | 135° | 342.1 |
| 369.9 | 368.2 | 373.2 | 375.0 | 379.9 | 381.5 | 389.9 | 389.9 | 398.2 | 406.4 | 419.7 | 137.5° | 362.6 |
| 353.3 | 350.0 | 356.6 | 356.6 | 363.4 | 361.7 | 371.6 | 368.2 | 376.6 | 379.9 | 383.1 | 140° | 383.8 |
| 341.7 | 336.8 | 341.7 | 340.1 | 345.1 | 340.1 | 345.1 | 340.1 | 345.1 | 345.1 | 340.1 | 142.5° | 404.9 |
| 330.1 | 325.2 | 326.8 | 320.2 | 325.2 | 318.4 | 320.2 | 313.5 | 316.8 | 313.5 | 315.1 | 145° | 425.4 |
| 318.4 | 311.9 | 311.9 | 303.5 | 303.5 | 295.4 | 298.6 | 291.9 | 298.6 | 303.5 | 301.9 | 147.5° | 444.1 |
| 301.9 | 296.9 | 296.9 | 290.3 | 293.7 | 290.3 | 296.9 | 293.7 | 295.4 | 288.6 | 277.0 | 150° | 460.3 |
| 291.9 | 295.4 | 293.7 | 298.6 | 295.4 | 290.3 | 285.3 | 275.4 | 273.7 | 270.4 | 263.7 | 152.5° | 477.0 |
| 277.0 | 280.3 | 272.1 | 278.7 | 273.7 | 275.4 | 272.1 | 267.1 | 263.7 | 260.5 | 253.8 | 155° | 494.2 |
| 255.5 | 255.5 | 248.8 | 258.8 | 253.8 | 263.7 | 260.5 | 260.5 | 257.2 | 252.2 | 247.1 | 157.5° | 507.9 |
| 237.2 | 238.9 | 232.2 | 240.6 | 237.2 | 250.4 | 248.8 | 253.8 | 253.8 | 250.4 | 237.2 | 160° | 520.2 |
| 225.7 | 222.3 | 217.3 | 225.7 | 223.9 | 235.5 | 237.2 | 247.1 | 245.6 | 247.1 | 235.5 | 162.5° | 529.0 |
| 215.6 | 209.0 | 204.1 | 209.0 | 209.0 | 219.0 | 222.3 | 233.9 | 235.5 | 238.9 | 232.2 | 165° | 538.8 |
| 204.1 | 195.7 | 192.5 | 195.7 | 195.7 | 205.7 | 210.7 | 219.0 | 223.9 | 233.9 | 230.5 | 167.5° | 548.1 |
| 194.1 | 182.4 | 179.1 | 182.4 | 184.2 | 194.1 | 199.1 | 207.4 | 214.0 | 227.3 | 225.7 | 170° | 554.5 |
| 182.4 | 172.6 | 169.2 | 174.2 | 175.9 | 185.8 | 190.8 | 199.1 | 204.1 | 219.0 | 219.0 | 172.5° | 556.9 |
| 169.2 | 161.0 | 161.0 | 162.5 | 165.8 | 175.9 | 179.1 | 190.8 | 192.5 | 210.7 | 212.3 | 175° | 558.5 |
| 157.7 | 152.6 | 152.6 | 154.3 | 157.7 | 165.8 | 167.5 | 179.1 | 180.8 | 199.1 | 204.1 | 177.5° | 563.3 |
| 147.6 | 144.3 | 144.3 | 146.0 | 147.6 | 154.3 | 155.9 | 167.5 | 170.9 | 187.5 | 195.7 | 180° | 565.3 |
| 137.7 | 134.4 | 132.7 | 132.7 | 137.7 | 142.7 | 146.0 | 157.7 | 159.3 | 174.2 | 184.2 | | |
| 126.1 | 122.8 | 122.8 | 121.1 | 126.1 | 129.4 | 136.0 | 142.7 | 146.0 | 161.0 | 167.5 | | |
| 114.4 | 111.1 | 111.1 | 109.5 | 112.7 | 119.5 | 121.1 | 127.6 | 129.4 | 142.7 | 149.3 | | |
| 99.5 | 96.2 | 96.2 | 96.2 | 99.5 | 101.1 | 102.9 | 109.5 | 112.7 | 124.4 | 131.1 | | |
| 82.9 | 79.6 | 81.3 | 79.6 | 84.6 | 78.0 | 82.9 | 89.7 | 93.0 | 99.5 | 96.2 | | |
| 63.0 | 58.1 | 59.6 | 59.6 | 61.4 | 56.4 | 59.6 | 63.0 | 66.4 | 71.3 | 69.7 | | |
| 39.9 | 34.9 | 38.2 | 34.9 | 38.2 | 33.1 | 36.5 | 36.5 | 39.9 | 36.5 | 34.9 | | |
| 8.4 | 3.3 | 8.4 | 3.3 | 9.9 | 0.0 | 5.0 | 0.0 | 3.3 | 1.7 | 0.0 | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | |
| 5.9 | 6.4 | 6.8 | 8.4 | 9.8 | 11.3 | 12.8 | 11.8 | 10.8 | 8.8 | 4.0 | | |
| 27.9 | 28.7 | 29.5 | 29.9 | 30.5 | 30.9 | 31.4 | 30.9 | 30.5 | 29.5 | 21.6 | | |
| 48.1 | 48.6 | 49.0 | 49.2 | 49.6 | 49.9 | 50.0 | 49.9 | 49.6 | 49.0 | 44.2 | | |
| 68.7 | 69.2 | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 | 69.5 | 69.2 | 68.7 | 64.8 | | |
| 89.8 | 90.1 | 90.3 | 90.5 | 90.8 | 91.1 | 91.3 | 90.8 | 90.3 | 89.3 | 86.3 | | |
| 111.4 | 111.7 | 111.9 | 111.9 | 111.9 | 111.9 | 111.9 | 111.4 | 110.9 | 110.0 | 108.0 | | |

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TION (continued):

CANDELA DISTRIBUTION (con

| 112.5° | 115° | 117.5° | 120° | 122.5° | 125° | 127.5° | 130° | 135° | 145° | | 155° | 165° |
|--------|-------|--------|-------|--------|-------|--------|-------|-------|-------|--------|-------|-------|
| 133.3 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 132.9 | 132.5 | 131.5 | 129.5 | 0° | 656.9 | 656.9 |
| 155.0 | 155.0 | 155.0 | 155.0 | 155.0 | 155.0 | 154.6 | 154.1 | 153.1 | 151.2 | 2.5° | 595.6 | 588.9 |
| 177.4 | 177.7 | 177.4 | 177.1 | 176.9 | 176.7 | 176.4 | 176.2 | 175.7 | 173.7 | 5° | 511.0 | 499.4 |
| 200.2 | 200.2 | 200.2 | 200.2 | 200.2 | 200.2 | 199.7 | 199.2 | 198.3 | 197.3 | 7.5° | 459.6 | 456.2 |
| 223.9 | 223.8 | 223.8 | 223.8 | 223.8 | 223.8 | 223.6 | 223.3 | 222.8 | 221.8 | 10° | 449.5 | 454.5 |
| 249.3 | 249.3 | 249.1 | 248.8 | 248.5 | 248.3 | 248.1 | 247.8 | 247.3 | 246.3 | 12.5° | 461.2 | 469.5 |
| 272.1 | 271.8 | 272.1 | 272.4 | 272.6 | 272.8 | 272.4 | 271.8 | 270.9 | 269.0 | 15° | 476.1 | 491.0 |
| 295.6 | 295.5 | 295.5 | 295.5 | 295.5 | 295.5 | 294.9 | 294.5 | 293.5 | 292.5 | 17.5° | 487.7 | 507.6 |
| 319.2 | 319.0 | 319.0 | 319.0 | 319.0 | 319.0 | 318.2 | 317.6 | 316.0 | 315.0 | 20° | 489.4 | 509.2 |
| 341.7 | 341.5 | 341.5 | 341.5 | 341.5 | 341.5 | 340.7 | 340.1 | 338.6 | 338.6 | 22.5° | 474.5 | 487.7 |
| 362.4 | 362.2 | 362.2 | 362.2 | 362.2 | 362.2 | 361.7 | 361.2 | 360.2 | 360.2 | 25° | 436.3 | 443.0 |
| 383.3 | 382.8 | 382.8 | 382.8 | 382.8 | 382.8 | 382.6 | 382.3 | 381.8 | 380.8 | 27.5° | 388.2 | 386.5 |
| 404.6 | 404.3 | 404.3 | 404.3 | 404.3 | 404.3 | 403.9 | 403.4 | 402.4 | 402.4 | 30° | 338.4 | 335.1 |
| 425.2 | 425.0 | 425.2 | 425.4 | 425.8 | 426.0 | 425.4 | 425.0 | 424.0 | 423.0 | 32.5° | 320.2 | 308.6 |
| 443.9 | 443.7 | 444.1 | 444.6 | 445.1 | 445.6 | 445.4 | 445.1 | 444.6 | 443.7 | 35° | 291.9 | 288.6 |
| 460.3 | 460.3 | 460.8 | 461.3 | 461.8 | 462.3 | 462.1 | 461.8 | 461.3 | 460.3 | 37.5° | 282.0 | 310.3 |
| 477.0 | 477.0 | 477.2 | 477.4 | 477.8 | 478.0 | 477.8 | 477.4 | 477.0 | 476.0 | 40° | 270.4 | 305.2 |
| 493.9 | 493.7 | 493.9 | 494.2 | 494.4 | 494.7 | 494.4 | 494.2 | 493.7 | 493.7 | 42.5° | 260.5 | 280.3 |
| 507.6 | 507.5 | 507.9 | 508.4 | 508.9 | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 | 45° | 242.3 | 250.4 |
| 520.2 | 520.2 | 520.7 | 521.2 | 521.6 | 522.2 | 522.2 | 522.2 | 522.2 | 522.2 | 47.5° | 233.9 | 230.5 |
| 529.6 | 530.0 | 530.4 | 531.0 | 531.4 | 532.0 | 531.8 | 531.4 | 531.0 | 531.0 | 50° | 227.3 | 227.3 |
| 539.3 | 539.8 | 540.6 | 541.3 | 541.9 | 542.8 | 542.6 | 542.3 | 541.8 | 541.8 | 52.5° | 222.3 | 219.0 |
| 547.9 | 547.7 | 548.1 | 548.7 | 549.1 | 549.7 | 549.7 | 549.7 | 549.7 | 550.6 | 55° | 215.6 | 212.3 |
| 554.1 | 553.5 | 553.7 | 554.1 | 554.3 | 554.5 | 554.7 | 555.1 | 555.5 | 556.5 | 57.5° | 210.7 | 202.4 |
| 556.7 | 556.5 | 556.9 | 557.5 | 557.9 | 558.5 | 558.3 | 557.9 | 557.5 | 558.5 | 60° | 205.7 | 197.4 |
| 558.9 | 559.5 | 560.3 | 560.9 | 561.6 | 562.4 | 562.2 | 561.9 | 561.4 | 561.4 | 62.5° | 202.4 | 192.5 |
| 563.3 | 563.3 | 564.1 | 564.9 | 565.6 | 566.3 | 566.3 | 566.3 | 566.3 | 567.3 | 65° | 197.4 | 187.5 |
| 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 565.3 | 67.5° | 190.8 | 177.5 |
| | | | | | | | | | | 70° | 177.5 | 165.8 |
| | | | | | | | | | | 72.5° | 164.2 | 150.9 |
| | | | | | | | | | | 75° | 144.3 | 132.7 |
| | | | | | | | | | | 77.5° | 121.1 | 107.9 |
| | | | | | | | | | | 80° | 91.3 | 82.9 |
| | | | | | | | | | | 82.5° | 66.4 | 56.4 |
| | | | | | | | | | | 85° | 29.8 | 21.6 |
| | | | | | | | | | | 87.5° | 0.0 | 0.0 |
| | | | | | | | | | | 90° | 0.0 | 0.0 |
| | | | | | | | | | | 92.5° | 0.0 | 0.0 |
| | | | | | | | | | | 95° | 1.0 | 1.0 |
| | | | | | | | | | | 97.5° | 3.0 | 2.0 |
| | | | | | | | | | | 100° | 13.7 | 9.8 |
| | | | | | | | | | | 102.5° | 37.3 | 31.4 |
| | | | | | | | | | | 105° | 59.8 | 55.0 |
| | | | | | | | | | | 107.5° | 82.5 | 78.5 |
| | | | | | | | | | | 110° | 104.0 | 101.1 |



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tinued):

| 175° | 180° |
|-------|-------|
| 656.9 | 656.9 |
| 585.5 | 584.0 |
| 496.0 | 492.7 |
| 456.2 | 454.5 |
| 456.2 | 456.2 |
| 476.1 | 476.1 |
| 499.4 | 499.4 |
| 516.0 | 517.5 |
| 520.8 | 522.5 |
| 496.0 | 496.0 |
| 448.0 | 448.0 |
| 384.8 | 391.5 |
| 328.5 | 335.1 |
| 291.9 | 296.9 |
| 280.3 | 282.0 |
| 308.6 | 310.3 |
| 303.5 | 307.0 |
| 260.5 | 262.1 |
| 233.9 | 233.9 |
| 223.9 | 222.3 |
| 223.9 | 220.6 |
| 230.5 | 228.9 |
| 220.6 | 220.6 |
| 215.6 | 215.6 |
| 210.7 | 210.7 |
| 209.0 | 207.4 |
| 209.0 | 205.7 |
| 205.7 | 200.7 |
| 194.1 | 180.8 |
| 165.8 | 154.3 |
| 134.4 | 132.7 |
| 104.6 | 106.2 |
| 79.6 | 79.6 |
| 58.1 | 48.1 |
| 16.6 | 16.6 |
| 0.0 | 0.0 |
| 0.0 | 0.0 |
| 0.0 | 0.0 |
| 1.0 | 1.0 |
| 2.0 | 2.0 |
| 7.8 | 7.8 |
| 27.5 | 27.5 |
| 53.0 | 53.0 |
| 75.5 | 76.5 |
| 100.1 | 99.2 |

CANDELA DISTRIBUTION (continued):

| | 155° | 165° | 175° |
|--------|-------|-------|-------|
| 112.5° | 126.6 | 123.7 | 121.7 |
| 115° | 148.2 | 146.2 | 144.3 |
| 117.5° | 170.8 | 168.8 | 166.8 |
| 120° | 194.3 | 192.3 | 191.4 |
| 122.5° | 218.8 | 216.9 | 216.0 |
| 125° | 243.4 | 242.5 | 241.5 |
| 127.5° | 267.0 | 265.0 | 264.0 |
| 130° | 288.5 | 287.5 | 286.6 |
| 132.5° | 312.1 | 311.2 | 308.2 |
| 135° | 334.7 | 332.7 | 330.8 |
| 137.5° | 357.3 | 356.3 | 353.3 |
| 140° | 378.8 | 377.8 | 375.9 |
| 142.5° | 399.5 | 400.5 | 398.5 |
| 145° | 420.0 | 420.0 | 418.1 |
| 147.5° | 439.7 | 438.7 | 435.8 |
| 150° | 456.4 | 455.4 | 453.5 |
| 152.5° | 473.0 | 474.0 | 471.1 |
| 155° | 491.7 | 492.7 | 490.7 |
| 157.5° | 506.5 | 507.5 | 505.5 |
| 160° | 519.2 | 519.2 | 517.2 |
| 162.5° | 528.0 | 529.0 | 526.0 |
| 165° | 537.8 | 538.8 | 536.8 |
| 167.5° | 547.7 | 548.7 | 545.7 |
| 170° | 554.5 | 555.5 | 552.5 |
| 172.5° | 556.5 | 558.5 | 555.5 |
| 175° | 558.5 | 559.5 | 558.5 |
| 177.5° | 563.3 | 564.3 | 562.4 |
| 180° | 565.3 | 565.3 | 565.3 |



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| <u>180°</u> |
|-------------|
| 121.7 |
| 143.3 |
| 165.8 |
| 189.5 |
| 215.0 |
| 239.5 |
| 262.0 |
| 284.7 |
| 307.2 |
| 329.8 |
| 352.3 |
| 375.0 |
| 396.5 |
| 417.2 |
| 435.8 |
| 452.5 |
| 470.2 |
| 489.8 |
| 503.5 |
| 515.3 |
| 525.1 |
| 535.9 |
| 544.7 |
| 551.6 |
| 554.5 |
| 556.5 |
| 561.4 |
| 565.3 |

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