

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: P314646

Luminaire Tested: **MPB-A6-D-U-ASYM**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P314646  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: MPB-A6-D-U-ASYM  
Description: BRECKENRIDGE POST TOP LUMINAIRE  
(1) 70 CRI, 4000K LIGHT ENGINE. ASYMMETRIC DISTRIBUTION.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5915 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U4 - G5

Input Watts (W): 64.8  
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



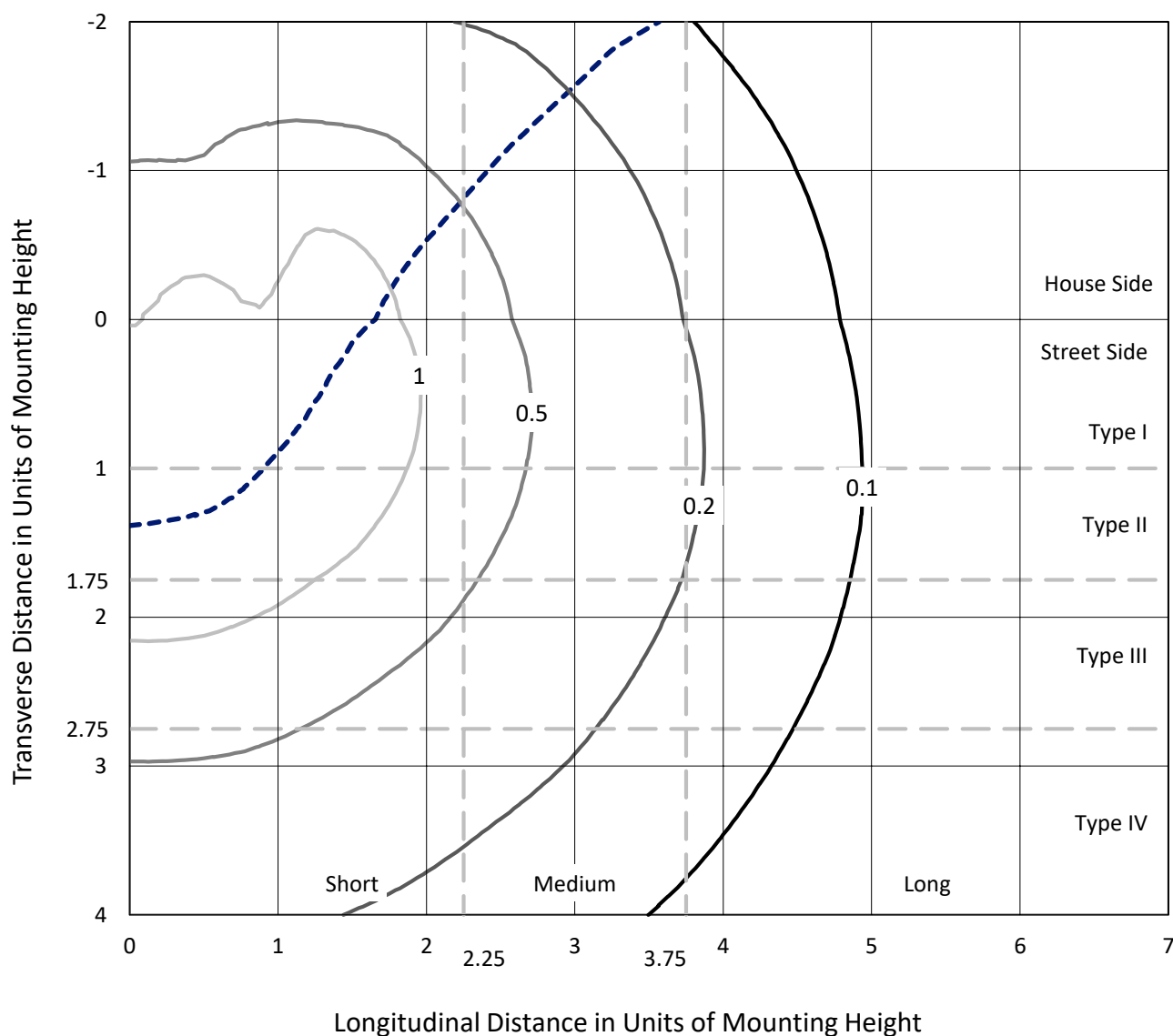
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

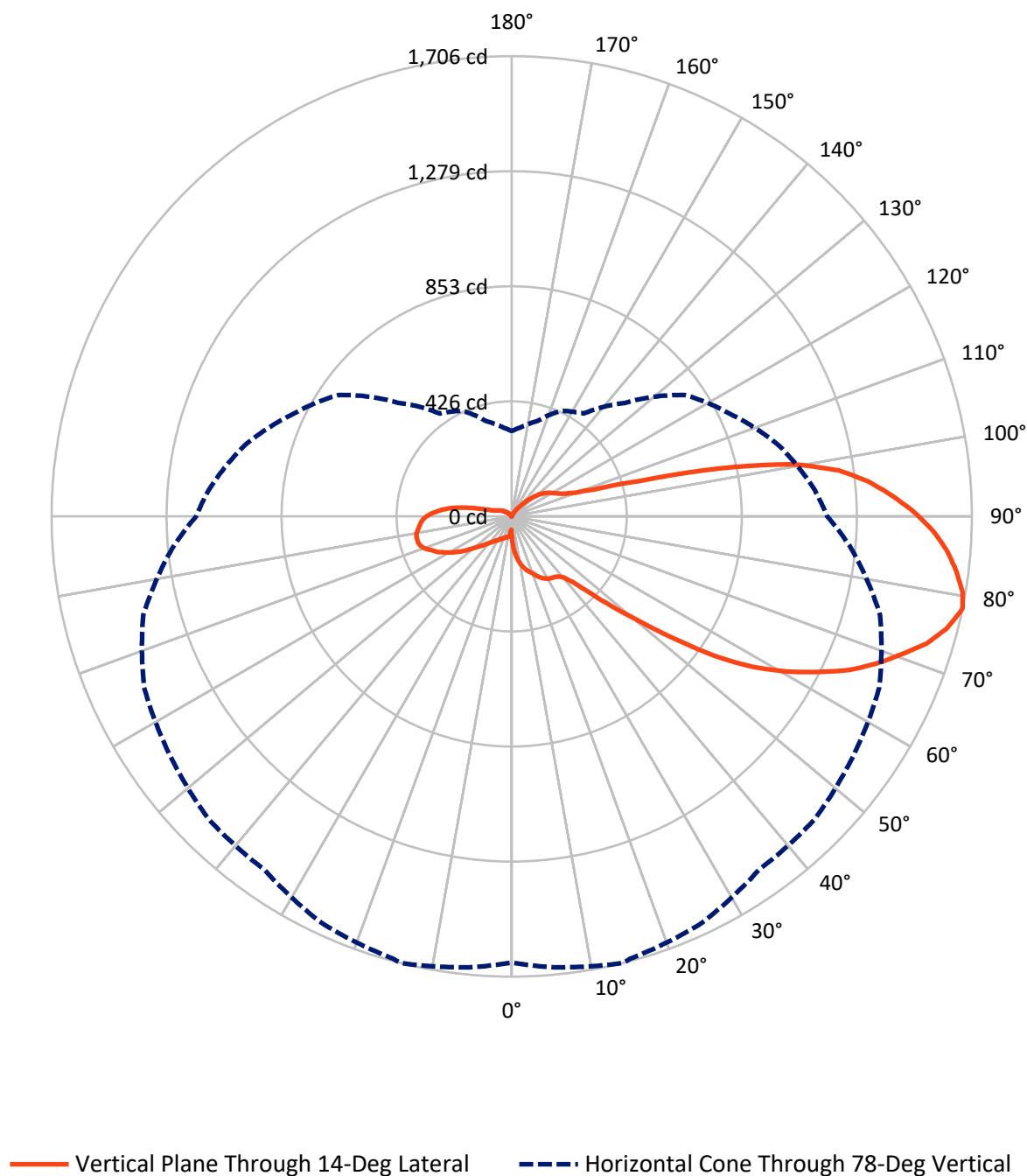


Based on 10 foot mounting height. Maximum calculated value = 1.9 fc  
Type IV - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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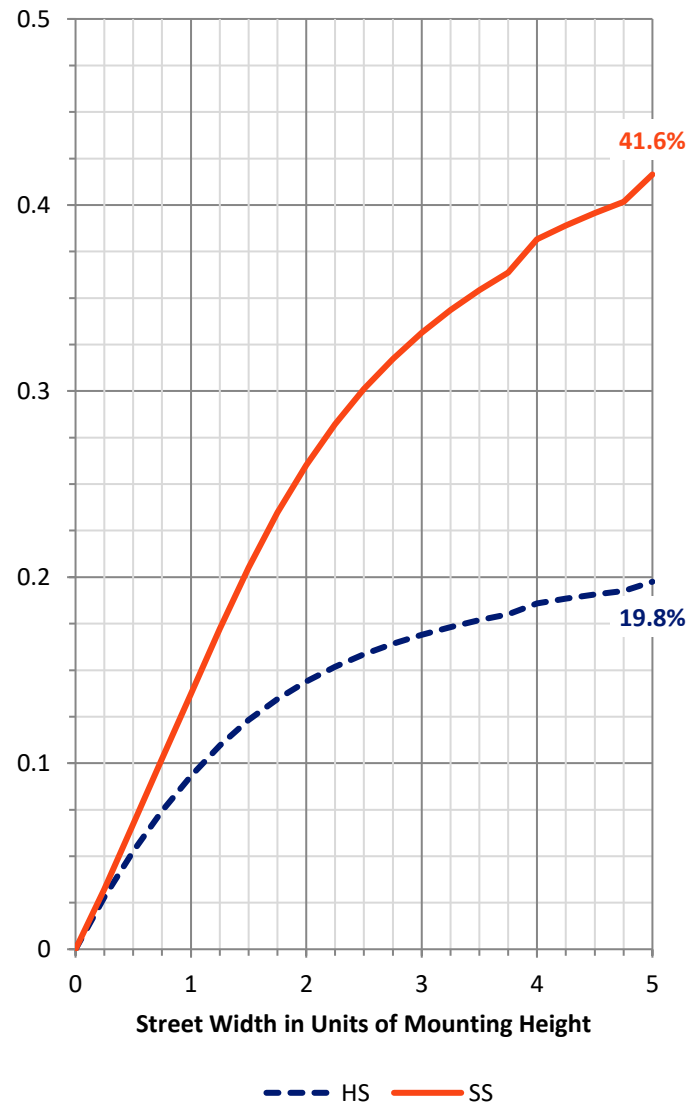
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1327.1   | 487.1  | 1814.2 |
|                    | % Fixture | 22.4     | 8.2    | 30.7   |
| <b>Street Side</b> | Lumens    | 2957.0   | 1143.9 | 4100.9 |
|                    | % Fixture | 50.0     | 19.3   | 69.3   |
| <b>Total</b>       | Lumens    | 4284.0   | 1631.0 | 5915.0 |
|                    | % Fixture | 72.4     | 27.6   | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 10.4   | 0.2       |
| 10°-20°   | 41.9   | 0.7       |
| 20°-30°   | 82.8   | 1.4       |
| 30°-40°   | 126.4  | 2.1       |
| 40°-50°   | 239.5  | 4.0       |
| 50°-60°   | 577.3  | 9.8       |
| 60°-70°   | 915.4  | 15.5      |
| 70°-80°   | 1144.6 | 19.4      |
| 80°-90°   | 1145.8 | 19.4      |
| 90°-100°  | 939.8  | 15.9      |
| 100°-110° | 400.5  | 6.8       |
| 110°-120° | 138.2  | 2.3       |
| 120°-130° | 92.3   | 1.6       |
| 130°-140° | 45.9   | 0.8       |
| 140°-150° | 13.3   | 0.2       |
| 150°-160° | 0.8    | 0.0       |
| 160°-170° | 0.1    | 0.0       |
| 170°-180° | 0.1    | 0.0       |
| 0°-90°    | 4284.0 | 72.4      |
| 0°-180°   | 5915.0 | 100.0     |

**Coefficient of Utilization**



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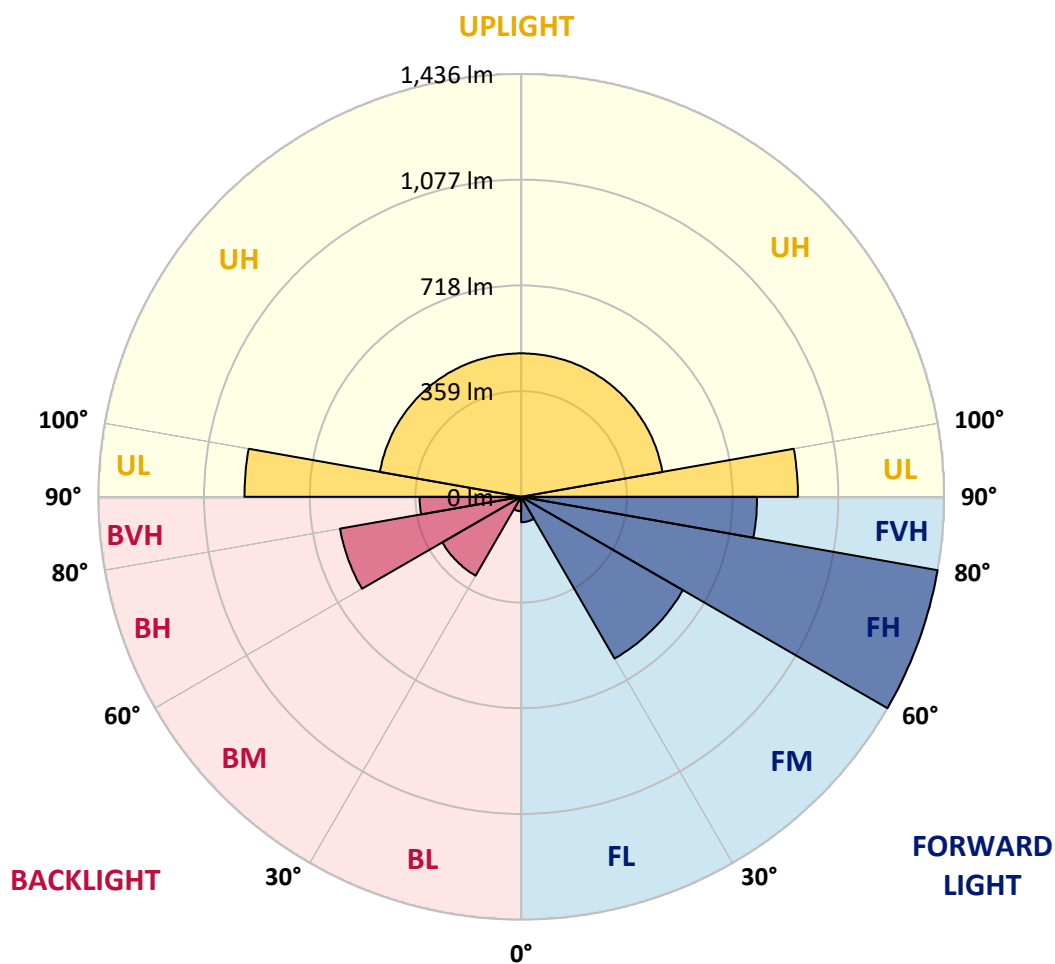
CATALOG NUMBER: MPB-A6-D-U-ASYM

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |         |         |
|------|-------------|--------|-----------|-------------------------|---------|---------|
|      |             |        |           | B                       | U       | G       |
| FL   | (0°-30°)    | 86.2   | 1.5       |                         |         |         |
| FM   | (30°-60°)   | 634.0  | 10.7      |                         |         |         |
| FH   | (60°-80°)   | 1435.7 | 24.3      |                         |         | G1/1800 |
| FVH  | (80°-90°)   | 801.0  | 13.5      |                         |         | G5      |
| BL   | (0°-30°)    | 48.9   | 0.8       | B0/110                  |         |         |
| BM   | (30°-60°)   | 309.1  | 5.2       | B1/1000                 |         |         |
| BH   | (60°-80°)   | 624.3  | 10.6      | B2/1000                 |         | G2/1000 |
| BVH  | (80°-90°)   | 344.8  | 5.8       |                         |         | G3/500  |
| UL   | (90°-100°)  | 939.8  | 15.9      |                         | U4/1000 |         |
| UH   | (100°-180°) | 487.1  | 8.2       |                         | U3/500  |         |

**BUG Rating: B2-U4-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 14°    | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 73.2   | 73.2   | 73.2   | 73.2   | 73.2   | 73.2   | 73.2   | 73.2   | 73.2   | 73.2   | 73.2   |
| 2.5°   | 115.0  | 114.1  | 113.1  | 112.2  | 111.2  | 105.5  | 103.6  | 99.8   | 95.1   | 89.4   | 84.6   |
| 5°     | 142.6  | 141.7  | 139.8  | 139.8  | 136.9  | 133.1  | 129.3  | 124.6  | 116.9  | 109.3  | 102.7  |
| 7.5°   | 164.5  | 162.6  | 161.6  | 160.7  | 158.8  | 154.0  | 149.3  | 143.6  | 136.9  | 129.3  | 121.7  |
| 10°    | 180.7  | 180.7  | 179.7  | 179.7  | 176.8  | 172.1  | 165.4  | 159.7  | 152.1  | 142.6  | 134.1  |
| 12.5°  | 195.9  | 194.9  | 194.0  | 194.0  | 191.1  | 185.4  | 178.8  | 172.1  | 164.5  | 155.0  | 146.4  |
| 15°    | 206.3  | 206.3  | 206.3  | 205.4  | 201.6  | 196.8  | 190.2  | 184.5  | 175.9  | 165.4  | 156.9  |
| 17.5°  | 216.8  | 216.8  | 215.8  | 215.8  | 211.1  | 206.3  | 199.7  | 194.0  | 185.4  | 174.9  | 165.4  |
| 20°    | 228.2  | 228.2  | 226.3  | 225.3  | 221.5  | 217.7  | 210.1  | 203.5  | 194.9  | 185.4  | 174.9  |
| 22.5°  | 242.5  | 241.5  | 239.6  | 239.6  | 234.8  | 228.2  | 221.5  | 214.9  | 206.3  | 195.9  | 185.4  |
| 25°    | 253.9  | 253.9  | 252.0  | 251.0  | 247.2  | 241.5  | 233.9  | 224.4  | 215.8  | 205.4  | 195.9  |
| 27.5°  | 264.3  | 263.4  | 260.5  | 259.6  | 255.8  | 250.1  | 242.5  | 233.9  | 223.4  | 213.0  | 202.5  |
| 30°    | 272.9  | 271.0  | 268.1  | 268.1  | 263.4  | 256.7  | 249.1  | 240.6  | 228.2  | 218.7  | 208.2  |
| 32.5°  | 276.7  | 275.7  | 271.9  | 271.0  | 266.2  | 259.6  | 252.0  | 242.5  | 232.0  | 221.5  | 212.0  |
| 35°    | 280.5  | 279.5  | 275.7  | 274.8  | 269.1  | 261.5  | 252.9  | 244.4  | 232.9  | 224.4  | 213.9  |
| 37.5°  | 287.1  | 287.1  | 282.4  | 281.4  | 275.7  | 270.0  | 261.5  | 252.9  | 243.4  | 232.0  | 220.6  |
| 40°    | 301.4  | 300.5  | 297.6  | 295.7  | 290.9  | 289.0  | 281.4  | 272.9  | 263.4  | 254.8  | 237.7  |
| 42.5°  | 332.8  | 333.7  | 333.7  | 331.8  | 327.1  | 329.9  | 325.2  | 318.5  | 307.1  | 295.7  | 273.8  |
| 45°    | 389.8  | 400.3  | 397.4  | 395.5  | 389.8  | 399.3  | 396.5  | 393.6  | 377.5  | 360.4  | 329.9  |
| 47.5°  | 477.3  | 491.6  | 494.4  | 486.8  | 481.1  | 488.7  | 500.1  | 494.4  | 472.5  | 451.6  | 413.6  |
| 50°    | 591.4  | 606.6  | 602.8  | 600.9  | 589.5  | 611.4  | 626.6  | 623.7  | 598.1  | 572.4  | 513.4  |
| 52.5°  | 734.0  | 741.6  | 749.2  | 740.7  | 730.2  | 758.7  | 792.0  | 788.2  | 762.5  | 723.6  | 649.4  |
| 55°    | 896.6  | 904.2  | 911.8  | 901.4  | 886.1  | 919.4  | 963.2  | 954.6  | 928.0  | 864.3  | 778.7  |
| 57.5°  | 1039.2 | 1053.5 | 1050.6 | 1046.8 | 1015.5 | 1048.7 | 1083.9 | 1075.4 | 1043.0 | 970.8  | 872.8  |
| 60°    | 1146.7 | 1155.2 | 1166.6 | 1162.8 | 1145.7 | 1152.4 | 1188.5 | 1167.6 | 1128.6 | 1048.7 | 943.2  |
| 62.5°  | 1243.6 | 1255.1 | 1270.3 | 1266.5 | 1253.2 | 1242.7 | 1271.2 | 1243.6 | 1203.7 | 1124.8 | 1007.8 |
| 65°    | 1339.7 | 1353.0 | 1373.9 | 1368.2 | 1351.1 | 1327.3 | 1354.9 | 1326.4 | 1281.7 | 1196.1 | 1066.8 |
| 67.5°  | 1417.6 | 1431.9 | 1456.6 | 1453.8 | 1442.4 | 1414.8 | 1422.4 | 1387.2 | 1340.6 | 1251.3 | 1115.3 |
| 70°    | 1497.5 | 1513.7 | 1531.7 | 1535.5 | 1504.2 | 1479.4 | 1486.1 | 1447.1 | 1406.2 | 1317.8 | 1171.4 |
| 72.5°  | 1566.9 | 1574.5 | 1608.8 | 1616.4 | 1574.5 | 1531.7 | 1539.3 | 1494.7 | 1450.0 | 1352.0 | 1210.4 |
| 75°    | 1628.7 | 1637.3 | 1663.9 | 1664.8 | 1617.3 | 1577.4 | 1579.3 | 1542.2 | 1502.3 | 1404.3 | 1246.5 |
| 77.5°  | 1655.3 | 1671.5 | 1700.0 | 1691.5 | 1659.1 | 1598.3 | 1604.9 | 1567.9 | 1520.3 | 1412.9 | 1251.3 |
| 78°    | 1653.4 | 1677.2 | 1705.7 | 1697.2 | 1663.9 | 1598.3 | 1587.8 | 1546.0 | 1503.2 | 1413.8 | 1257.9 |
| 80°    | 1646.8 | 1676.3 | 1694.3 | 1685.8 | 1656.3 | 1581.2 | 1567.9 | 1532.7 | 1492.8 | 1402.4 | 1238.9 |
| 82.5°  | 1608.8 | 1641.1 | 1660.1 | 1653.4 | 1631.6 | 1552.7 | 1546.0 | 1531.7 | 1495.6 | 1397.7 | 1225.6 |
| 85°    | 1575.5 | 1607.8 | 1618.3 | 1613.5 | 1589.7 | 1515.6 | 1511.8 | 1486.1 | 1437.6 | 1346.3 | 1183.7 |
| 87.5°  | 1530.8 | 1558.4 | 1563.1 | 1564.1 | 1536.5 | 1461.4 | 1455.7 | 1434.8 | 1399.6 | 1315.9 | 1155.2 |
| 90°    | 1461.4 | 1485.1 | 1495.6 | 1495.6 | 1472.8 | 1403.4 | 1404.3 | 1397.7 | 1365.3 | 1276.0 | 1115.3 |
| 92.5°  | 1382.5 | 1405.3 | 1415.7 | 1414.8 | 1394.8 | 1334.0 | 1334.0 | 1321.6 | 1279.8 | 1201.8 | 1051.6 |
| 95°    | 1298.8 | 1315.9 | 1331.1 | 1330.2 | 1303.5 | 1246.5 | 1244.6 | 1243.6 | 1203.7 | 1127.6 | 989.8  |
| 97.5°  | 1194.2 | 1203.7 | 1224.6 | 1221.8 | 1197.1 | 1154.3 | 1156.2 | 1160.0 | 1123.8 | 1052.5 | 919.4  |
| 100°   | 1033.5 | 1032.6 | 1059.2 | 1053.5 | 1038.3 | 1010.7 | 1023.1 | 1028.8 | 998.3  | 936.5  | 824.3  |
| 102.5° | 769.2  | 768.2  | 791.1  | 785.4  | 786.3  | 775.9  | 795.8  | 805.3  | 786.3  | 738.8  | 647.5  |
| 105°   | 482.1  | 478.3  | 491.6  | 487.8  | 483.0  | 469.7  | 472.5  | 468.7  | 458.3  | 429.8  | 377.5  |
| 107.5° | 319.5  | 316.6  | 323.3  | 325.2  | 316.6  | 307.1  | 304.3  | 300.5  | 289.0  | 271.9  | 242.5  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 14°   | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 247.2 | 247.2 | 251.0 | 249.1 | 245.3 | 240.6 | 236.7 | 234.8 | 226.3 | 214.9 | 193.0 |
| 112.5° | 212.0 | 212.0 | 215.8 | 214.9 | 212.0 | 207.3 | 206.3 | 204.4 | 198.7 | 189.2 | 172.1 |
| 115°   | 193.0 | 193.0 | 195.9 | 195.9 | 193.0 | 188.3 | 187.3 | 186.4 | 182.6 | 174.0 | 158.8 |
| 117.5° | 180.7 | 179.7 | 182.6 | 182.6 | 178.8 | 175.9 | 175.9 | 174.9 | 172.1 | 163.5 | 150.2 |
| 120°   | 169.2 | 169.2 | 171.1 | 171.1 | 168.3 | 166.4 | 167.3 | 166.4 | 163.5 | 155.0 | 141.7 |
| 122.5° | 158.8 | 158.8 | 160.7 | 159.7 | 157.8 | 157.8 | 157.8 | 157.8 | 155.0 | 147.4 | 134.1 |
| 125°   | 145.5 | 145.5 | 147.4 | 147.4 | 145.5 | 146.4 | 147.4 | 147.4 | 145.5 | 137.9 | 125.5 |
| 127.5° | 131.2 | 131.2 | 133.1 | 133.1 | 132.2 | 134.1 | 136.9 | 136.0 | 134.1 | 127.4 | 116.0 |
| 130°   | 115.0 | 115.0 | 116.9 | 117.9 | 117.9 | 120.8 | 122.7 | 122.7 | 120.8 | 115.0 | 103.6 |
| 132.5° | 97.9  | 97.0  | 98.9  | 99.8  | 101.7 | 104.6 | 105.5 | 105.5 | 104.6 | 98.9  | 89.4  |
| 135°   | 78.9  | 78.9  | 81.8  | 82.7  | 84.6  | 86.5  | 87.5  | 88.4  | 87.5  | 82.7  | 74.2  |
| 137.5° | 60.9  | 60.9  | 63.7  | 64.7  | 66.6  | 67.5  | 67.5  | 69.4  | 67.5  | 64.7  | 58.0  |
| 140°   | 47.5  | 47.5  | 49.4  | 50.4  | 52.3  | 52.3  | 51.3  | 51.3  | 50.4  | 48.5  | 42.8  |
| 142.5° | 38.0  | 37.1  | 39.9  | 39.9  | 40.9  | 41.8  | 40.9  | 40.9  | 39.9  | 38.0  | 34.2  |
| 145°   | 28.5  | 28.5  | 29.5  | 30.4  | 30.4  | 31.4  | 31.4  | 31.4  | 30.4  | 29.5  | 25.7  |
| 147.5° | 19.0  | 19.0  | 20.9  | 20.9  | 21.9  | 22.8  | 22.8  | 22.8  | 21.9  | 20.9  | 18.1  |
| 150°   | 9.5   | 9.5   | 10.5  | 11.4  | 12.4  | 12.4  | 13.3  | 14.3  | 13.3  | 12.4  | 10.5  |
| 152.5° | 0.0   | 0.0   | 1.0   | 1.0   | 1.9   | 2.9   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   |
| 155°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.0   | 1.0   | 1.0   |
| 157.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.0   | 0.0   | 0.0   | 1.0   | 1.0   | 1.0   |
| 160°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.0   | 0.0   | 1.0   | 1.0   | 1.0   | 1.0   |
| 162.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |
| 165°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |
| 167.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |
| 170°   | 0.0   | 0.0   | 0.0   | 0.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |
| 172.5° | 0.0   | 0.0   | 0.0   | 0.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |
| 175°   | 0.0   | 0.0   | 0.0   | 0.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |
| 177.5° | 0.0   | 0.0   | 0.0   | 0.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |
| 180°   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |





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**CANDELA DISTRIBUTION (continued):**

|        | 90°    | 95°    | 105°   | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 73.2   | 73.2   | 73.2   | 73.2  | 73.2  | 73.2  | 73.2  | 73.2  | 73.2  | 73.2  | 73.2  |
| 2.5°   | 81.8   | 78.0   | 73.2   | 68.5  | 63.7  | 58.9  | 55.1  | 51.3  | 49.4  | 47.5  | 47.5  |
| 5°     | 98.9   | 95.1   | 88.4   | 81.8  | 75.1  | 70.4  | 66.6  | 63.7  | 61.8  | 61.8  | 62.8  |
| 7.5°   | 117.9  | 114.1  | 104.6  | 95.1  | 88.4  | 82.7  | 78.0  | 75.1  | 72.3  | 70.4  | 70.4  |
| 10°    | 130.3  | 124.6  | 116.0  | 107.4 | 99.8  | 92.2  | 86.5  | 81.8  | 77.0  | 74.2  | 73.2  |
| 12.5°  | 140.7  | 136.0  | 125.5  | 116.0 | 107.4 | 97.9  | 91.3  | 84.6  | 78.9  | 75.1  | 74.2  |
| 15°    | 150.2  | 144.5  | 134.1  | 123.6 | 113.1 | 102.7 | 94.1  | 86.5  | 80.8  | 76.1  | 76.1  |
| 17.5°  | 159.7  | 154.0  | 142.6  | 131.2 | 118.8 | 107.4 | 97.0  | 89.4  | 82.7  | 78.9  | 78.0  |
| 20°    | 169.2  | 162.6  | 151.2  | 138.8 | 124.6 | 112.2 | 100.8 | 92.2  | 85.6  | 82.7  | 81.8  |
| 22.5°  | 178.8  | 172.1  | 159.7  | 146.4 | 131.2 | 116.9 | 104.6 | 95.1  | 88.4  | 86.5  | 86.5  |
| 25°    | 188.3  | 180.7  | 167.3  | 153.1 | 136.9 | 122.7 | 109.3 | 98.9  | 92.2  | 90.3  | 91.3  |
| 27.5°  | 194.9  | 188.3  | 174.0  | 158.8 | 142.6 | 127.4 | 113.1 | 102.7 | 96.0  | 95.1  | 95.1  |
| 30°    | 201.6  | 194.0  | 178.8  | 163.5 | 147.4 | 132.2 | 117.9 | 106.5 | 100.8 | 99.8  | 100.8 |
| 32.5°  | 205.4  | 197.8  | 181.6  | 167.3 | 151.2 | 135.0 | 121.7 | 110.3 | 104.6 | 105.5 | 105.5 |
| 35°    | 207.3  | 199.7  | 185.4  | 170.2 | 154.0 | 138.8 | 125.5 | 115.0 | 111.2 | 111.2 | 111.2 |
| 37.5°  | 213.0  | 205.4  | 190.2  | 174.9 | 159.7 | 144.5 | 131.2 | 120.8 | 117.9 | 118.8 | 117.9 |
| 40°    | 227.2  | 219.6  | 202.5  | 185.4 | 169.2 | 153.1 | 138.8 | 128.4 | 126.5 | 127.4 | 126.5 |
| 42.5°  | 261.5  | 252.9  | 228.2  | 205.4 | 185.4 | 166.4 | 149.3 | 138.8 | 136.9 | 136.9 | 137.9 |
| 45°    | 311.9  | 300.5  | 272.9  | 238.7 | 213.0 | 187.3 | 165.4 | 152.1 | 149.3 | 148.3 | 147.4 |
| 47.5°  | 386.0  | 368.9  | 334.7  | 290.9 | 252.0 | 218.7 | 186.4 | 168.3 | 162.6 | 160.7 | 158.8 |
| 50°    | 483.0  | 464.0  | 413.6  | 356.5 | 312.8 | 259.6 | 214.9 | 189.2 | 178.8 | 173.0 | 171.1 |
| 52.5°  | 602.8  | 583.8  | 516.3  | 445.9 | 383.2 | 312.8 | 253.9 | 214.9 | 199.7 | 188.3 | 185.4 |
| 55°    | 723.6  | 703.6  | 628.5  | 532.4 | 463.0 | 368.0 | 296.6 | 245.3 | 223.4 | 205.4 | 203.5 |
| 57.5°  | 810.1  | 784.4  | 703.6  | 605.7 | 529.6 | 417.4 | 329.0 | 271.9 | 244.4 | 223.4 | 218.7 |
| 60°    | 869.0  | 842.4  | 763.5  | 656.1 | 580.9 | 455.4 | 355.6 | 294.7 | 266.2 | 243.4 | 239.6 |
| 62.5°  | 927.0  | 900.4  | 811.0  | 700.7 | 621.8 | 479.2 | 378.4 | 314.7 | 286.2 | 262.4 | 262.4 |
| 65°    | 981.2  | 952.7  | 855.7  | 746.4 | 661.8 | 502.0 | 399.3 | 334.7 | 308.1 | 285.2 | 290.0 |
| 67.5°  | 1025.9 | 997.4  | 896.6  | 791.1 | 694.1 | 526.7 | 414.5 | 362.3 | 322.3 | 305.2 | 304.3 |
| 70°    | 1078.2 | 1044.9 | 939.4  | 829.1 | 734.0 | 558.1 | 429.8 | 384.1 | 343.2 | 325.2 | 310.0 |
| 72.5°  | 1113.4 | 1071.6 | 975.5  | 858.6 | 752.1 | 576.2 | 445.9 | 410.7 | 357.5 | 327.1 | 316.6 |
| 75°    | 1151.4 | 1113.4 | 1009.7 | 883.3 | 784.4 | 592.3 | 455.4 | 422.2 | 364.2 | 328.0 | 315.7 |
| 77.5°  | 1158.1 | 1118.1 | 1017.4 | 888.0 | 781.6 | 600.9 | 467.8 | 427.9 | 364.2 | 329.0 | 317.6 |
| 78°    | 1169.5 | 1127.6 | 1023.1 | 895.7 | 784.4 | 595.2 | 464.9 | 431.7 | 365.1 | 329.0 | 316.6 |
| 80°    | 1152.4 | 1115.3 | 1012.6 | 883.3 | 774.9 | 589.5 | 464.0 | 432.6 | 363.2 | 325.2 | 311.9 |
| 82.5°  | 1133.4 | 1100.1 | 992.6  | 869.0 | 762.5 | 580.9 | 457.3 | 417.4 | 354.6 | 313.8 | 301.4 |
| 85°    | 1094.4 | 1069.6 | 971.7  | 847.2 | 738.8 | 561.0 | 450.7 | 413.6 | 347.0 | 303.3 | 291.9 |
| 87.5°  | 1064.9 | 1042.1 | 943.2  | 832.9 | 725.5 | 544.8 | 437.4 | 403.1 | 338.5 | 293.8 | 282.4 |
| 90°    | 1023.1 | 996.4  | 897.6  | 787.3 | 686.5 | 522.0 | 422.2 | 382.2 | 324.2 | 282.4 | 271.0 |
| 92.5°  | 967.0  | 945.1  | 851.0  | 743.5 | 649.4 | 488.7 | 395.5 | 360.4 | 301.4 | 266.2 | 253.9 |
| 95°    | 909.0  | 889.0  | 798.7  | 702.6 | 613.3 | 459.2 | 368.9 | 334.7 | 272.9 | 245.3 | 232.0 |
| 97.5°  | 842.4  | 824.3  | 738.8  | 644.6 | 559.1 | 421.2 | 332.8 | 301.4 | 240.6 | 214.9 | 206.3 |
| 100°   | 747.3  | 730.2  | 647.5  | 561.9 | 484.0 | 363.2 | 277.6 | 251.0 | 199.7 | 177.8 | 170.2 |
| 102.5° | 576.2  | 561.9  | 490.6  | 422.2 | 355.6 | 264.3 | 196.8 | 180.7 | 151.2 | 132.2 | 126.5 |
| 105°   | 338.5  | 329.9  | 291.9  | 252.0 | 211.1 | 162.6 | 123.6 | 120.8 | 103.6 | 95.1  | 90.3  |
| 107.5° | 219.6  | 213.0  | 191.1  | 168.3 | 143.6 | 114.1 | 91.3  | 86.5  | 77.0  | 73.2  | 71.3  |



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|        | 90°   | 95°   | 105°  | 115°  | 125°  | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 110°   | 179.7 | 174.0 | 156.9 | 137.9 | 118.8 | 94.1 | 78.0 | 72.3 | 64.7 | 61.8 | 60.9 |
| 112.5° | 159.7 | 155.0 | 139.8 | 122.7 | 106.5 | 84.6 | 70.4 | 64.7 | 58.0 | 55.1 | 54.2 |
| 115°   | 148.3 | 142.6 | 128.4 | 113.1 | 98.9  | 78.9 | 65.6 | 59.9 | 53.2 | 49.4 | 49.4 |
| 117.5° | 138.8 | 133.1 | 120.8 | 106.5 | 92.2  | 73.2 | 60.9 | 54.2 | 48.5 | 44.7 | 43.7 |
| 120°   | 132.2 | 126.5 | 114.1 | 99.8  | 86.5  | 68.5 | 57.0 | 49.4 | 42.8 | 39.0 | 38.0 |
| 122.5° | 124.6 | 118.8 | 106.5 | 93.2  | 78.9  | 62.8 | 51.3 | 43.7 | 38.0 | 34.2 | 33.3 |
| 125°   | 116.9 | 111.2 | 98.9  | 85.6  | 71.3  | 56.1 | 45.6 | 38.0 | 32.3 | 29.5 | 28.5 |
| 127.5° | 108.4 | 102.7 | 90.3  | 77.0  | 63.7  | 49.4 | 39.9 | 33.3 | 27.6 | 24.7 | 23.8 |
| 130°   | 97.0  | 91.3  | 79.9  | 67.5  | 55.1  | 42.8 | 34.2 | 27.6 | 23.8 | 20.9 | 20.0 |
| 132.5° | 83.7  | 78.0  | 67.5  | 57.0  | 46.6  | 36.1 | 27.6 | 22.8 | 19.0 | 17.1 | 16.2 |
| 135°   | 69.4  | 64.7  | 56.1  | 46.6  | 38.0  | 29.5 | 22.8 | 19.0 | 15.2 | 13.3 | 13.3 |
| 137.5° | 54.2  | 50.4  | 42.8  | 36.1  | 29.5  | 22.8 | 17.1 | 14.3 | 12.4 | 10.5 | 10.5 |
| 140°   | 40.9  | 38.0  | 32.3  | 27.6  | 21.9  | 17.1 | 13.3 | 11.4 | 9.5  | 7.6  | 7.6  |
| 142.5° | 31.4  | 29.5  | 24.7  | 20.9  | 17.1  | 12.4 | 9.5  | 7.6  | 6.7  | 5.7  | 5.7  |
| 145°   | 23.8  | 21.9  | 18.1  | 15.2  | 12.4  | 8.6  | 6.7  | 4.8  | 3.8  | 3.8  | 2.9  |
| 147.5° | 16.2  | 15.2  | 12.4  | 9.5   | 7.6   | 4.8  | 3.8  | 2.9  | 1.9  | 1.9  | 1.0  |
| 150°   | 8.6   | 7.6   | 5.7   | 4.8   | 2.9   | 1.9  | 1.9  | 1.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 2.9   | 2.9   | 1.9   | 1.0   | 1.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 1.0   | 1.0   | 1.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 1.0   | 1.0   | 1.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 1.0   | 1.0   | 1.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 1.0   | 1.0   | 1.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 1.0   | 1.0   | 1.0   | 1.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 1.0   | 1.0   | 1.0   | 1.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  |

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