

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: P314544

Luminaire Tested: **MPN-A6-D-U-SYM-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P314544  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: MPN-A6-D-U-SYM-7027  
Description: NEW HAVEN POST TOP LUMINAIRE  
(1) 70 CRI, 2700K LIGHT ENGINE. SYMMETRIC DISTRIBUTION.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5494 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B2 - U4 - G4

Input Watts (W): 64.1  
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



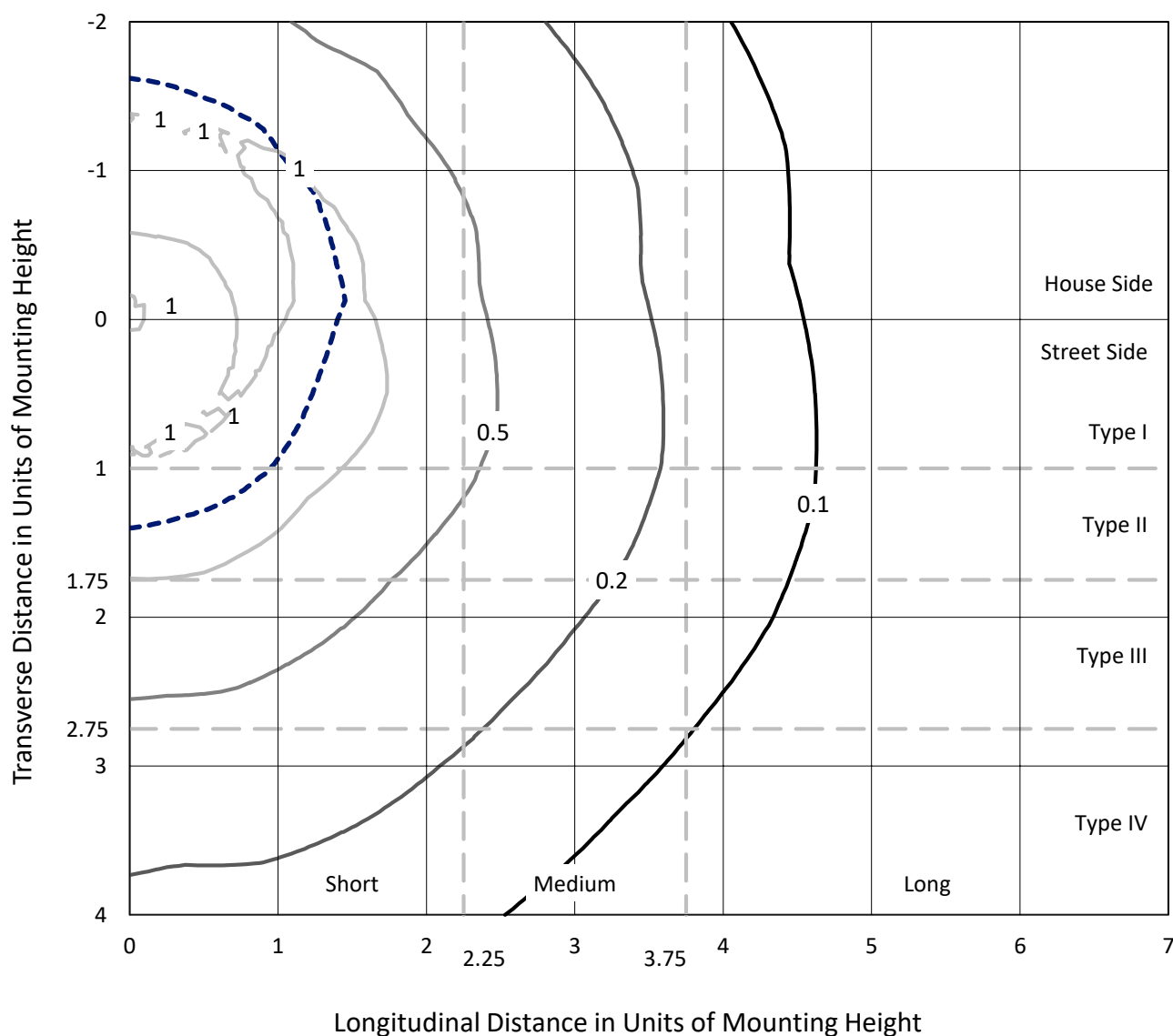
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

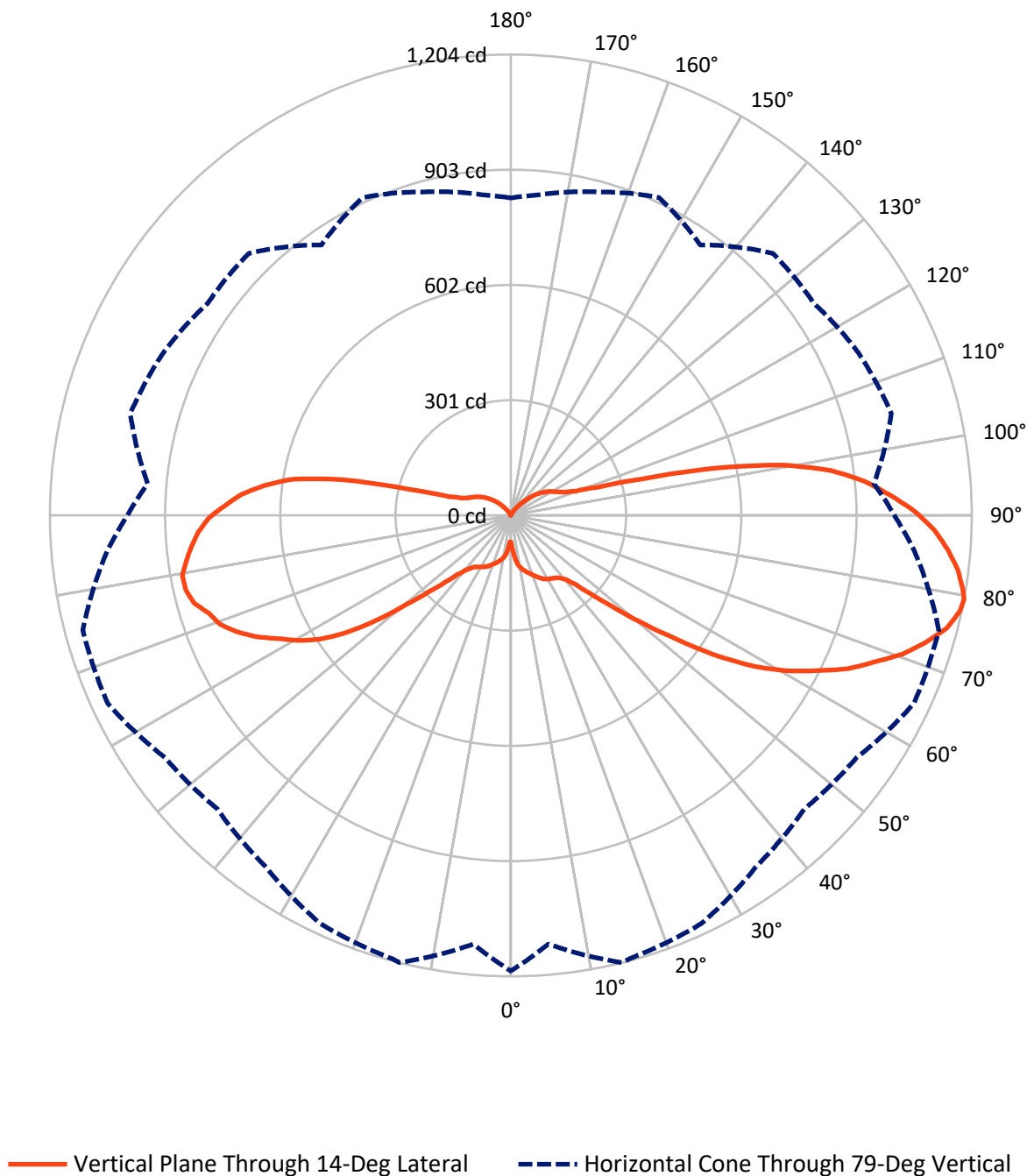


Based on 10 foot mounting height. Maximum calculated value = 1.4 fc  
Type V - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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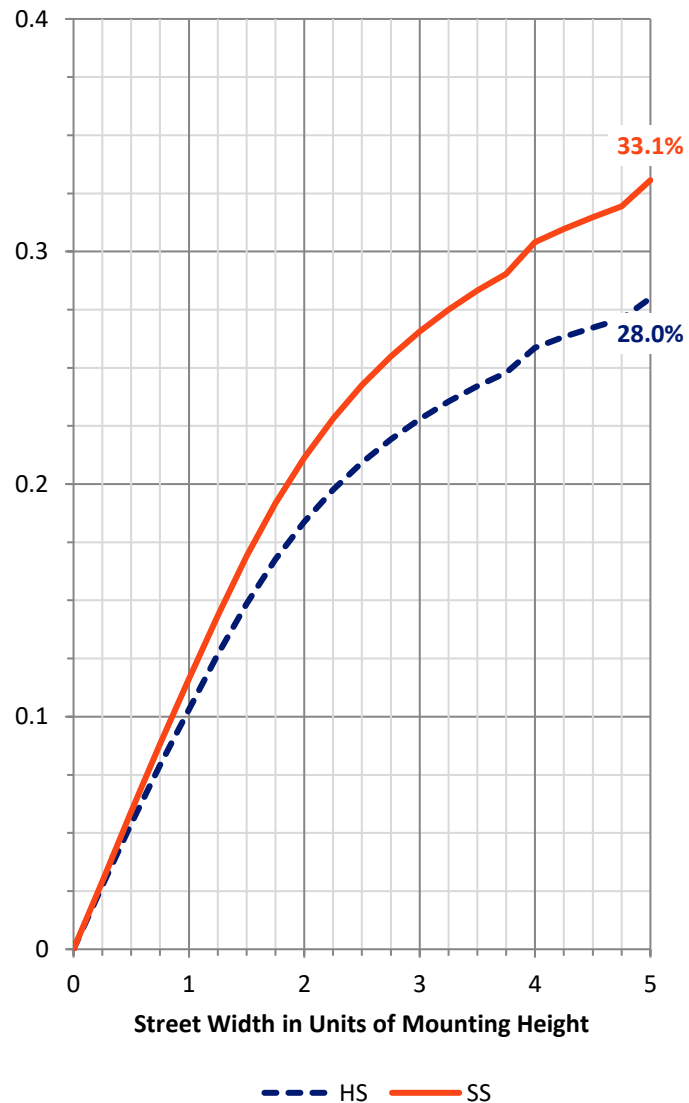
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1810.6   | 690.1  | 2500.7 |
|                    | % Fixture | 33.0     | 12.6   | 45.5   |
| <b>Street Side</b> | Lumens    | 2166.0   | 827.3  | 2993.3 |
|                    | % Fixture | 39.4     | 15.1   | 54.5   |
| <b>Total</b>       | Lumens    | 3976.6   | 1517.4 | 5494.0 |
|                    | % Fixture | 72.4     | 27.6   | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 10.2   | 0.2       |
| 10°-20°   | 39.4   | 0.7       |
| 20°-30°   | 76.8   | 1.4       |
| 30°-40°   | 116.9  | 2.1       |
| 40°-50°   | 220.6  | 4.0       |
| 50°-60°   | 532.4  | 9.7       |
| 60°-70°   | 847.5  | 15.4      |
| 70°-80°   | 1062.9 | 19.3      |
| 80°-90°   | 1070.0 | 19.5      |
| 90°-100°  | 877.2  | 16.0      |
| 100°-110° | 370.5  | 6.7       |
| 110°-120° | 128.3  | 2.3       |
| 120°-130° | 85.5   | 1.6       |
| 130°-140° | 42.6   | 0.8       |
| 140°-150° | 12.5   | 0.2       |
| 150°-160° | 0.6    | 0.0       |
| 160°-170° | 0.1    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 3976.6 | 72.4      |
| 0°-180°   | 5494.0 | 100.0     |

**Coefficient of Utilization**



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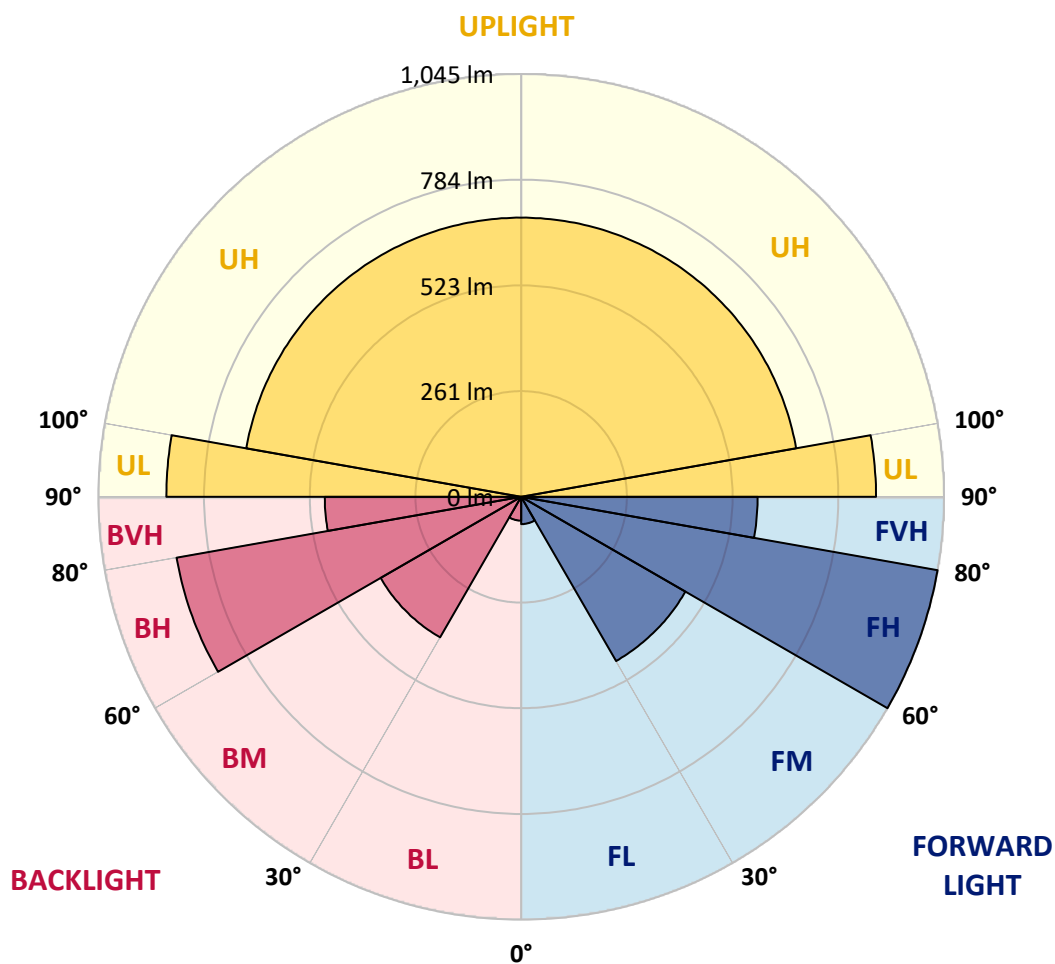
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |         |         |
|------|-------------|--------|-----------|-------------------------|---------|---------|
|      |             |        |           | B                       | U       | G       |
| FL   | (0°-30°)    | 67.5   | 1.2       |                         |         |         |
| FM   | (30°-60°)   | 468.8  | 8.5       |                         |         |         |
| FH   | (60°-80°)   | 1045.2 | 19.0      |                         |         | G1/1800 |
| FVH  | (80°-90°)   | 584.5  | 10.6      |                         |         | G4/750  |
| BL   | (0°-30°)    | 58.8   | 1.1       | B0/110                  |         |         |
| BM   | (30°-60°)   | 401.1  | 7.3       | B1/1000                 |         |         |
| BH   | (60°-80°)   | 865.2  | 15.7      | B2/1000                 |         | G1/1800 |
| BVH  | (80°-90°)   | 485.5  | 8.8       |                         |         | G3/500  |
| UL   | (90°-100°)  | 877.2  | 16.0      |                         | U4/1000 |         |
| UH   | (100°-180°) | 690.1  | 12.6      |                         | U4/1000 |         |

**BUG Rating: B2-U4-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 14°    | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 69.6   | 69.6   | 69.6   | 69.6   | 69.6   | 69.6   | 69.6   | 69.6   | 69.6   | 69.6   | 69.6   |
| 2.5°   | 92.4   | 89.8   | 89.8   | 90.7   | 90.7   | 87.2   | 84.5   | 84.5   | 82.8   | 81.0   | 77.5   |
| 5°     | 112.7  | 110.9  | 110.9  | 110.9  | 110.9  | 111.8  | 109.2  | 107.4  | 103.9  | 102.1  | 99.5   |
| 7.5°   | 128.5  | 127.7  | 127.7  | 128.5  | 127.7  | 126.8  | 124.1  | 124.1  | 120.6  | 118.9  | 116.2  |
| 10°    | 140.0  | 139.1  | 139.1  | 139.1  | 137.3  | 135.6  | 133.8  | 132.9  | 130.3  | 127.7  | 125.0  |
| 12.5°  | 146.1  | 145.3  | 146.1  | 146.1  | 144.4  | 140.9  | 140.0  | 139.1  | 137.3  | 134.7  | 131.2  |
| 15°    | 153.2  | 152.3  | 153.2  | 153.2  | 150.5  | 148.8  | 147.0  | 146.1  | 144.4  | 142.6  | 139.1  |
| 17.5°  | 160.2  | 159.3  | 159.3  | 159.3  | 158.5  | 154.9  | 153.2  | 154.1  | 151.4  | 148.8  | 146.1  |
| 20°    | 168.2  | 167.3  | 166.4  | 166.4  | 165.5  | 162.0  | 161.1  | 160.2  | 158.5  | 155.8  | 153.2  |
| 22.5°  | 177.0  | 175.2  | 174.3  | 174.3  | 173.4  | 169.9  | 169.9  | 169.0  | 166.4  | 163.8  | 162.0  |
| 25°    | 185.8  | 184.9  | 181.4  | 181.4  | 180.5  | 177.8  | 178.7  | 177.0  | 174.3  | 170.8  | 169.9  |
| 27.5°  | 192.8  | 191.0  | 188.4  | 187.5  | 186.6  | 184.0  | 184.9  | 183.1  | 179.6  | 177.0  | 176.1  |
| 30°    | 197.2  | 196.3  | 192.8  | 192.8  | 190.2  | 189.3  | 189.3  | 186.6  | 183.1  | 180.5  | 181.4  |
| 32.5°  | 199.8  | 199.8  | 196.3  | 195.4  | 193.7  | 192.8  | 191.9  | 190.2  | 185.8  | 183.1  | 184.0  |
| 35°    | 204.2  | 203.4  | 200.7  | 199.8  | 197.2  | 197.2  | 195.4  | 192.8  | 187.5  | 186.6  | 187.5  |
| 37.5°  | 209.5  | 208.7  | 206.9  | 206.0  | 201.6  | 203.4  | 200.7  | 199.0  | 193.7  | 192.8  | 191.9  |
| 40°    | 221.9  | 221.9  | 219.2  | 219.2  | 213.9  | 218.3  | 215.7  | 216.6  | 211.3  | 210.4  | 206.9  |
| 42.5°  | 244.7  | 244.7  | 245.6  | 246.5  | 242.1  | 246.5  | 245.6  | 250.0  | 245.6  | 242.1  | 236.8  |
| 45°    | 289.6  | 286.1  | 291.4  | 289.6  | 287.0  | 291.4  | 289.6  | 295.8  | 294.0  | 289.6  | 284.4  |
| 47.5°  | 345.1  | 352.2  | 353.0  | 354.8  | 349.5  | 354.8  | 353.0  | 360.1  | 363.6  | 358.3  | 344.2  |
| 50°    | 421.7  | 428.7  | 436.7  | 436.7  | 432.3  | 434.0  | 433.1  | 443.7  | 448.1  | 449.0  | 429.6  |
| 52.5°  | 511.5  | 518.5  | 529.1  | 535.3  | 528.2  | 533.5  | 535.3  | 555.5  | 569.6  | 567.8  | 534.4  |
| 55°    | 617.2  | 627.7  | 640.9  | 644.4  | 632.1  | 635.6  | 637.4  | 662.9  | 691.1  | 687.6  | 644.4  |
| 57.5°  | 720.2  | 729.8  | 741.3  | 747.4  | 732.5  | 728.1  | 714.0  | 743.9  | 780.0  | 778.3  | 714.9  |
| 60°    | 804.7  | 811.7  | 824.0  | 830.2  | 815.2  | 806.4  | 776.5  | 808.2  | 849.6  | 852.2  | 778.3  |
| 62.5°  | 879.5  | 883.0  | 893.6  | 899.8  | 883.0  | 873.3  | 836.4  | 869.8  | 910.3  | 913.8  | 833.7  |
| 65°    | 945.5  | 940.3  | 966.7  | 968.4  | 944.7  | 929.7  | 894.5  | 930.6  | 969.3  | 971.9  | 881.3  |
| 67.5°  | 1004.5 | 994.0  | 1023.0 | 1029.2 | 1002.8 | 979.9  | 946.4  | 973.7  | 1016.0 | 1014.2 | 934.1  |
| 70°    | 1057.3 | 1043.3 | 1085.5 | 1089.0 | 1053.8 | 1023.0 | 1003.6 | 1019.5 | 1067.0 | 1067.9 | 979.9  |
| 72.5°  | 1111.0 | 1084.6 | 1133.9 | 1134.8 | 1104.9 | 1060.0 | 1036.2 | 1056.5 | 1103.1 | 1098.7 | 1016.0 |
| 75°    | 1153.3 | 1106.6 | 1177.1 | 1173.6 | 1146.3 | 1091.7 | 1068.8 | 1084.6 | 1140.1 | 1138.3 | 1040.6 |
| 77.5°  | 1193.8 | 1126.9 | 1200.0 | 1197.3 | 1172.7 | 1113.7 | 1085.5 | 1107.5 | 1160.3 | 1159.5 | 1062.6 |
| 79°    | 1190.3 | 1124.3 | 1204.4 | 1199.1 | 1177.1 | 1119.0 | 1084.6 | 1103.1 | 1162.1 | 1157.7 | 1058.2 |
| 80°    | 1186.8 | 1116.3 | 1198.2 | 1193.8 | 1170.0 | 1112.8 | 1072.3 | 1087.3 | 1146.3 | 1143.6 | 1044.1 |
| 82.5°  | 1162.1 | 1097.0 | 1177.1 | 1170.9 | 1150.7 | 1098.7 | 1060.0 | 1074.1 | 1143.6 | 1134.8 | 1030.9 |
| 85°    | 1128.7 | 1067.0 | 1145.4 | 1140.1 | 1120.7 | 1070.5 | 1025.6 | 1037.1 | 1098.7 | 1097.0 | 1000.1 |
| 87.5°  | 1085.5 | 1029.2 | 1107.5 | 1102.2 | 1084.6 | 1038.9 | 994.0  | 1007.2 | 1069.7 | 1068.8 | 966.7  |
| 90°    | 1044.1 | 989.6  | 1057.3 | 1055.6 | 1038.0 | 995.7  | 957.0  | 977.2  | 1041.5 | 1038.0 | 936.7  |
| 92.5°  | 981.6  | 932.3  | 994.0  | 994.8  | 978.1  | 942.9  | 906.8  | 923.5  | 973.7  | 972.8  | 879.5  |
| 95°    | 918.2  | 872.5  | 928.8  | 928.8  | 913.0  | 882.1  | 845.2  | 857.5  | 906.8  | 914.7  | 824.9  |
| 97.5°  | 834.6  | 794.1  | 844.3  | 846.1  | 833.7  | 807.3  | 775.6  | 791.5  | 839.0  | 846.9  | 765.1  |
| 100°   | 705.2  | 677.9  | 721.9  | 726.3  | 716.6  | 700.8  | 678.8  | 701.7  | 743.0  | 751.8  | 680.5  |
| 102.5° | 515.9  | 508.0  | 546.7  | 545.0  | 541.4  | 537.0  | 531.8  | 544.1  | 571.4  | 584.6  | 511.5  |
| 105°   | 350.4  | 337.2  | 357.4  | 356.6  | 349.5  | 338.1  | 324.9  | 324.0  | 331.0  | 325.7  | 289.6  |
| 107.5° | 235.9  | 230.7  | 238.6  | 239.5  | 234.2  | 224.5  | 212.2  | 211.3  | 217.5  | 213.9  | 194.6  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 14°   | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 179.6 | 177.0 | 181.4 | 182.2 | 179.6 | 171.7 | 165.5 | 165.5 | 171.7 | 169.0 | 156.7 |
| 112.5° | 155.8 | 154.1 | 156.7 | 156.7 | 154.9 | 147.0 | 143.5 | 146.1 | 151.4 | 150.5 | 140.0 |
| 115°   | 141.7 | 140.9 | 141.7 | 142.6 | 140.0 | 132.9 | 131.2 | 133.8 | 139.1 | 138.2 | 129.4 |
| 117.5° | 132.1 | 131.2 | 131.2 | 132.1 | 129.4 | 123.3 | 122.4 | 125.0 | 130.3 | 129.4 | 121.5 |
| 120°   | 123.3 | 123.3 | 123.3 | 123.3 | 121.5 | 116.2 | 115.3 | 118.9 | 123.3 | 122.4 | 115.3 |
| 122.5° | 114.5 | 114.5 | 114.5 | 114.5 | 112.7 | 109.2 | 109.2 | 112.7 | 116.2 | 115.3 | 109.2 |
| 125°   | 104.8 | 104.8 | 103.9 | 104.8 | 103.0 | 101.2 | 101.2 | 104.8 | 107.4 | 107.4 | 102.1 |
| 127.5° | 95.1  | 95.1  | 93.3  | 94.2  | 92.4  | 91.6  | 92.4  | 96.0  | 98.6  | 98.6  | 95.1  |
| 130°   | 84.5  | 83.6  | 81.9  | 82.8  | 81.0  | 81.0  | 82.8  | 86.3  | 88.0  | 88.9  | 85.4  |
| 132.5° | 72.2  | 71.3  | 69.6  | 69.6  | 69.6  | 69.6  | 71.3  | 74.0  | 76.6  | 76.6  | 74.8  |
| 135°   | 59.9  | 59.0  | 57.2  | 57.2  | 57.2  | 56.3  | 59.0  | 61.6  | 63.4  | 63.4  | 61.6  |
| 137.5° | 46.7  | 46.7  | 44.9  | 45.8  | 44.9  | 44.0  | 45.8  | 47.5  | 48.4  | 49.3  | 47.5  |
| 140°   | 37.0  | 37.0  | 36.1  | 35.2  | 34.3  | 33.5  | 34.3  | 35.2  | 36.1  | 37.0  | 36.1  |
| 142.5° | 29.1  | 29.1  | 28.2  | 28.2  | 27.3  | 26.4  | 26.4  | 27.3  | 29.1  | 29.1  | 28.2  |
| 145°   | 22.0  | 22.0  | 22.0  | 21.1  | 20.2  | 20.2  | 20.2  | 21.1  | 22.0  | 22.0  | 22.0  |
| 147.5° | 15.8  | 15.0  | 15.0  | 15.0  | 14.1  | 14.1  | 15.0  | 15.0  | 15.8  | 15.8  | 15.8  |
| 150°   | 7.9   | 7.9   | 7.9   | 7.9   | 7.9   | 7.9   | 8.8   | 8.8   | 9.7   | 9.7   | 8.8   |
| 152.5° | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 1.8   |
| 155°   | 0.0   | 0.0   | 0.9   | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 157.5° | 0.0   | 0.0   | 0.9   | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 160°   | 0.0   | 0.0   | 0.9   | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 162.5° | 0.0   | 0.0   | 0.9   | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.9   | 0.0   | 0.0   |
| 165°   | 0.0   | 0.0   | 0.9   | 0.9   | 0.9   | 0.0   | 0.0   | 0.0   | 0.9   | 0.9   | 0.0   |
| 167.5° | 0.9   | 0.0   | 0.9   | 0.9   | 0.9   | 0.0   | 0.9   | 0.0   | 0.9   | 0.9   | 0.0   |
| 170°   | 0.0   | 0.0   | 0.9   | 0.9   | 0.9   | 0.0   | 0.0   | 0.0   | 0.9   | 0.0   | 0.0   |
| 172.5° | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.0   | 0.9   | 0.9   | 0.0   |
| 175°   | 0.0   | 0.0   | 0.9   | 0.9   | 0.9   | 0.0   | 0.0   | 0.0   | 0.9   | 0.9   | 0.0   |
| 177.5° | 0.9   | 0.0   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.0   | 0.9   | 0.9   | 0.0   |
| 180°   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   |





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**CANDELA DISTRIBUTION (continued):**

|        | 90°    | 95°   | 105°   | 115°   | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|--------|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 69.6   | 69.6  | 69.6   | 69.6   | 69.6  | 69.6  | 69.6  | 69.6  | 69.6  | 69.6  | 69.6  |
| 2.5°   | 76.6   | 75.7  | 74.0   | 74.8   | 72.2  | 71.3  | 70.4  | 69.6  | 69.6  | 69.6  | 68.7  |
| 5°     | 97.7   | 96.0  | 91.6   | 89.8   | 89.8  | 88.0  | 88.0  | 87.2  | 87.2  | 87.2  | 87.2  |
| 7.5°   | 114.5  | 113.6 | 109.2  | 105.6  | 103.9 | 103.0 | 103.0 | 102.1 | 102.1 | 101.2 | 100.4 |
| 10°    | 123.3  | 121.5 | 118.9  | 117.1  | 115.3 | 113.6 | 111.8 | 112.7 | 111.8 | 110.0 | 110.0 |
| 12.5°  | 130.3  | 128.5 | 125.9  | 124.1  | 122.4 | 119.7 | 118.9 | 118.9 | 118.0 | 115.3 | 115.3 |
| 15°    | 137.3  | 135.6 | 133.8  | 131.2  | 129.4 | 126.8 | 125.0 | 125.0 | 124.1 | 121.5 | 120.6 |
| 17.5°  | 144.4  | 143.5 | 140.9  | 138.2  | 136.5 | 133.8 | 131.2 | 130.3 | 129.4 | 127.7 | 126.8 |
| 20°    | 152.3  | 150.5 | 147.9  | 145.3  | 142.6 | 140.9 | 138.2 | 135.6 | 134.7 | 133.8 | 132.9 |
| 22.5°  | 161.1  | 158.5 | 155.8  | 152.3  | 149.7 | 148.8 | 144.4 | 141.7 | 140.9 | 139.1 | 139.1 |
| 25°    | 169.0  | 165.5 | 162.9  | 160.2  | 156.7 | 155.8 | 151.4 | 147.9 | 146.1 | 145.3 | 145.3 |
| 27.5°  | 175.2  | 171.7 | 169.0  | 166.4  | 162.9 | 162.0 | 156.7 | 153.2 | 150.5 | 150.5 | 151.4 |
| 30°    | 179.6  | 177.0 | 174.3  | 170.8  | 169.0 | 168.2 | 162.0 | 157.6 | 154.9 | 155.8 | 155.8 |
| 32.5°  | 183.1  | 180.5 | 177.8  | 174.3  | 172.6 | 171.7 | 166.4 | 161.1 | 158.5 | 159.3 | 159.3 |
| 35°    | 185.8  | 184.0 | 181.4  | 177.8  | 177.0 | 175.2 | 169.9 | 164.6 | 162.9 | 164.6 | 163.8 |
| 37.5°  | 191.0  | 188.4 | 185.8  | 181.4  | 183.1 | 180.5 | 176.1 | 170.8 | 170.8 | 173.4 | 172.6 |
| 40°    | 204.2  | 200.7 | 197.2  | 191.9  | 192.8 | 191.9 | 189.3 | 184.9 | 184.9 | 188.4 | 187.5 |
| 42.5°  | 231.5  | 226.3 | 220.1  | 213.1  | 213.1 | 211.3 | 207.8 | 206.0 | 206.9 | 209.5 | 209.5 |
| 45°    | 272.9  | 263.2 | 258.8  | 250.0  | 248.3 | 246.5 | 243.0 | 239.5 | 244.7 | 243.9 | 245.6 |
| 47.5°  | 331.9  | 318.7 | 313.4  | 302.0  | 300.2 | 299.3 | 294.0 | 290.5 | 292.3 | 294.0 | 298.5 |
| 50°    | 412.0  | 392.7 | 386.5  | 375.0  | 372.4 | 368.9 | 358.3 | 353.9 | 357.4 | 360.1 | 363.6 |
| 52.5°  | 516.8  | 483.3 | 481.6  | 471.0  | 456.0 | 462.2 | 448.1 | 441.1 | 443.7 | 442.8 | 447.2 |
| 55°    | 620.7  | 581.9 | 586.3  | 572.3  | 552.0 | 559.0 | 531.8 | 530.9 | 526.5 | 522.9 | 524.7 |
| 57.5°  | 692.9  | 655.0 | 672.6  | 655.0  | 629.5 | 636.5 | 600.4 | 596.0 | 594.3 | 583.7 | 580.2 |
| 60°    | 748.3  | 709.6 | 736.0  | 711.4  | 683.2 | 701.7 | 650.6 | 654.1 | 645.3 | 633.9 | 626.0 |
| 62.5°  | 797.6  | 758.0 | 789.7  | 761.5  | 730.7 | 750.1 | 692.9 | 704.3 | 686.7 | 677.0 | 662.9 |
| 65°    | 844.3  | 807.3 | 839.9  | 814.4  | 773.0 | 800.3 | 735.1 | 756.3 | 737.8 | 720.2 | 706.9 |
| 67.5°  | 889.2  | 853.1 | 890.9  | 865.4  | 820.5 | 846.9 | 767.7 | 799.4 | 780.0 | 760.7 | 744.8 |
| 70°    | 927.0  | 889.2 | 933.2  | 909.4  | 861.0 | 878.6 | 784.4 | 840.8 | 813.5 | 795.9 | 773.9 |
| 72.5°  | 962.3  | 918.2 | 972.8  | 950.8  | 899.8 | 914.7 | 809.1 | 873.3 | 830.2 | 813.5 | 797.6 |
| 75°    | 985.2  | 936.7 | 1005.4 | 979.9  | 938.5 | 946.4 | 839.0 | 898.9 | 861.0 | 833.7 | 821.4 |
| 77.5°  | 1006.3 | 953.5 | 1025.6 | 995.7  | 957.9 | 962.3 | 858.4 | 916.5 | 874.2 | 843.4 | 827.6 |
| 79°    | 1001.9 | 952.6 | 1029.2 | 1002.8 | 966.7 | 968.4 | 862.8 | 916.5 | 875.1 | 840.8 | 829.3 |
| 80°    | 991.3  | 944.7 | 1020.4 | 990.4  | 954.3 | 957.0 | 858.4 | 909.4 | 877.7 | 831.1 | 820.5 |
| 82.5°  | 979.9  | 931.4 | 1007.2 | 979.9  | 943.8 | 941.1 | 852.2 | 898.9 | 860.1 | 822.3 | 810.8 |
| 85°    | 949.9  | 907.7 | 979.0  | 951.7  | 921.8 | 917.4 | 832.8 | 876.0 | 842.5 | 795.0 | 785.3 |
| 87.5°  | 921.8  | 880.4 | 952.6  | 926.2  | 897.1 | 893.6 | 817.0 | 860.1 | 822.3 | 771.2 | 765.9 |
| 90°    | 890.9  | 848.7 | 916.5  | 890.1  | 857.5 | 851.3 | 781.8 | 824.9 | 794.1 | 744.8 | 739.5 |
| 92.5°  | 835.5  | 797.6 | 861.9  | 839.0  | 811.7 | 807.3 | 740.4 | 780.0 | 751.0 | 706.9 | 701.7 |
| 95°    | 785.3  | 749.2 | 806.4  | 787.1  | 761.5 | 760.7 | 694.6 | 736.9 | 708.7 | 669.1 | 666.5 |
| 97.5°  | 730.7  | 695.5 | 744.8  | 727.2  | 701.7 | 699.0 | 637.4 | 675.3 | 650.6 | 614.5 | 611.9 |
| 100°   | 644.4  | 614.5 | 647.1  | 633.9  | 603.9 | 611.9 | 557.3 | 597.8 | 578.4 | 546.7 | 540.6 |
| 102.5° | 483.3  | 459.6 | 470.1  | 459.6  | 433.1 | 444.6 | 416.4 | 459.6 | 451.6 | 434.0 | 428.7 |
| 105°   | 273.8  | 266.8 | 273.8  | 270.3  | 260.6 | 258.0 | 243.9 | 272.9 | 266.8 | 260.6 | 257.1 |
| 107.5° | 184.9  | 179.6 | 185.8  | 183.1  | 171.7 | 170.8 | 160.2 | 173.4 | 167.3 | 162.0 | 159.3 |



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**CANDELA DISTRIBUTION (continued):**

|        | 90°   | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 150.5 | 146.1 | 150.5 | 149.7 | 141.7 | 139.1 | 131.2 | 140.0 | 135.6 | 131.2 | 129.4 |
| 112.5° | 134.7 | 131.2 | 134.7 | 133.8 | 125.9 | 125.0 | 118.9 | 125.9 | 122.4 | 118.9 | 118.0 |
| 115°   | 125.0 | 121.5 | 124.1 | 123.3 | 116.2 | 115.3 | 110.0 | 116.2 | 113.6 | 110.0 | 109.2 |
| 117.5° | 118.0 | 114.5 | 116.2 | 114.5 | 109.2 | 107.4 | 103.0 | 108.3 | 106.5 | 102.1 | 101.2 |
| 120°   | 111.8 | 108.3 | 110.0 | 107.4 | 102.1 | 100.4 | 96.8  | 100.4 | 98.6  | 96.0  | 95.1  |
| 122.5° | 106.5 | 103.0 | 103.9 | 100.4 | 95.1  | 92.4  | 89.8  | 91.6  | 90.7  | 88.0  | 87.2  |
| 125°   | 99.5  | 96.0  | 96.0  | 92.4  | 86.3  | 84.5  | 81.9  | 82.8  | 81.9  | 81.0  | 80.1  |
| 127.5° | 91.6  | 88.9  | 87.2  | 83.6  | 78.4  | 74.8  | 73.1  | 74.0  | 74.0  | 73.1  | 72.2  |
| 130°   | 82.8  | 80.1  | 76.6  | 73.1  | 68.7  | 66.0  | 63.4  | 65.1  | 65.1  | 65.1  | 65.1  |
| 132.5° | 72.2  | 69.6  | 66.0  | 62.5  | 58.1  | 56.3  | 53.7  | 55.5  | 56.3  | 57.2  | 56.3  |
| 135°   | 59.9  | 58.1  | 54.6  | 51.1  | 47.5  | 44.9  | 44.0  | 45.8  | 47.5  | 47.5  | 46.7  |
| 137.5° | 46.7  | 44.9  | 43.1  | 40.5  | 37.0  | 35.2  | 34.3  | 36.1  | 37.9  | 37.9  | 37.0  |
| 140°   | 35.2  | 35.2  | 33.5  | 30.8  | 27.3  | 26.4  | 26.4  | 27.3  | 28.2  | 28.2  | 27.3  |
| 142.5° | 27.3  | 27.3  | 25.5  | 23.8  | 21.1  | 20.2  | 20.2  | 21.1  | 22.0  | 22.0  | 21.1  |
| 145°   | 21.1  | 21.1  | 19.4  | 17.6  | 15.8  | 15.0  | 15.0  | 15.8  | 16.7  | 16.7  | 15.8  |
| 147.5° | 15.8  | 15.0  | 13.2  | 12.3  | 10.6  | 10.6  | 10.6  | 10.6  | 11.4  | 11.4  | 11.4  |
| 150°   | 8.8   | 8.8   | 7.9   | 6.2   | 5.3   | 5.3   | 5.3   | 6.2   | 7.0   | 7.0   | 6.2   |
| 152.5° | 1.8   | 1.8   | 1.8   | 1.8   | 0.9   | 0.0   | 0.9   | 0.9   | 0.9   | 0.9   | 0.0   |
| 155°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 157.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 160°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 162.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.9   | 0.0   | 0.0   | 0.0   |
| 165°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.9   | 0.9   | 0.0   | 0.0   |
| 167.5° | 0.0   | 0.0   | 0.0   | 0.9   | 0.0   | 0.0   | 0.0   | 0.9   | 0.9   | 0.0   | 0.0   |
| 170°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.9   | 0.9   | 0.0   | 0.0   |
| 172.5° | 0.0   | 0.0   | 0.9   | 0.9   | 0.0   | 0.0   | 0.0   | 0.9   | 0.9   | 0.0   | 0.0   |
| 175°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.9   | 0.9   | 0.0   | 0.0   |
| 177.5° | 0.0   | 0.0   | 0.9   | 0.9   | 0.0   | 0.9   | 0.0   | 0.9   | 0.9   | 0.0   | 0.0   |
| 180°   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   |

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