

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: P274489

Luminaire Tested: **ULA-A8-D-U-ASYM-VMx-7027-BK**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P274489  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1804-729-11)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ULA-A8-D-U-ASYM-VMx-7027-BK  
Description: UTILITY LIGHT ACORN TYPE IV ASYMMETRIC  
Light Source: (120) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7331.1 lumens  
Efficiency: N/A  
Efficacy: 127.9 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 2.17')  
IES Classification: Type - Short - Non-Cutoff  
BUG Rating: B1 - U5 - G4

Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



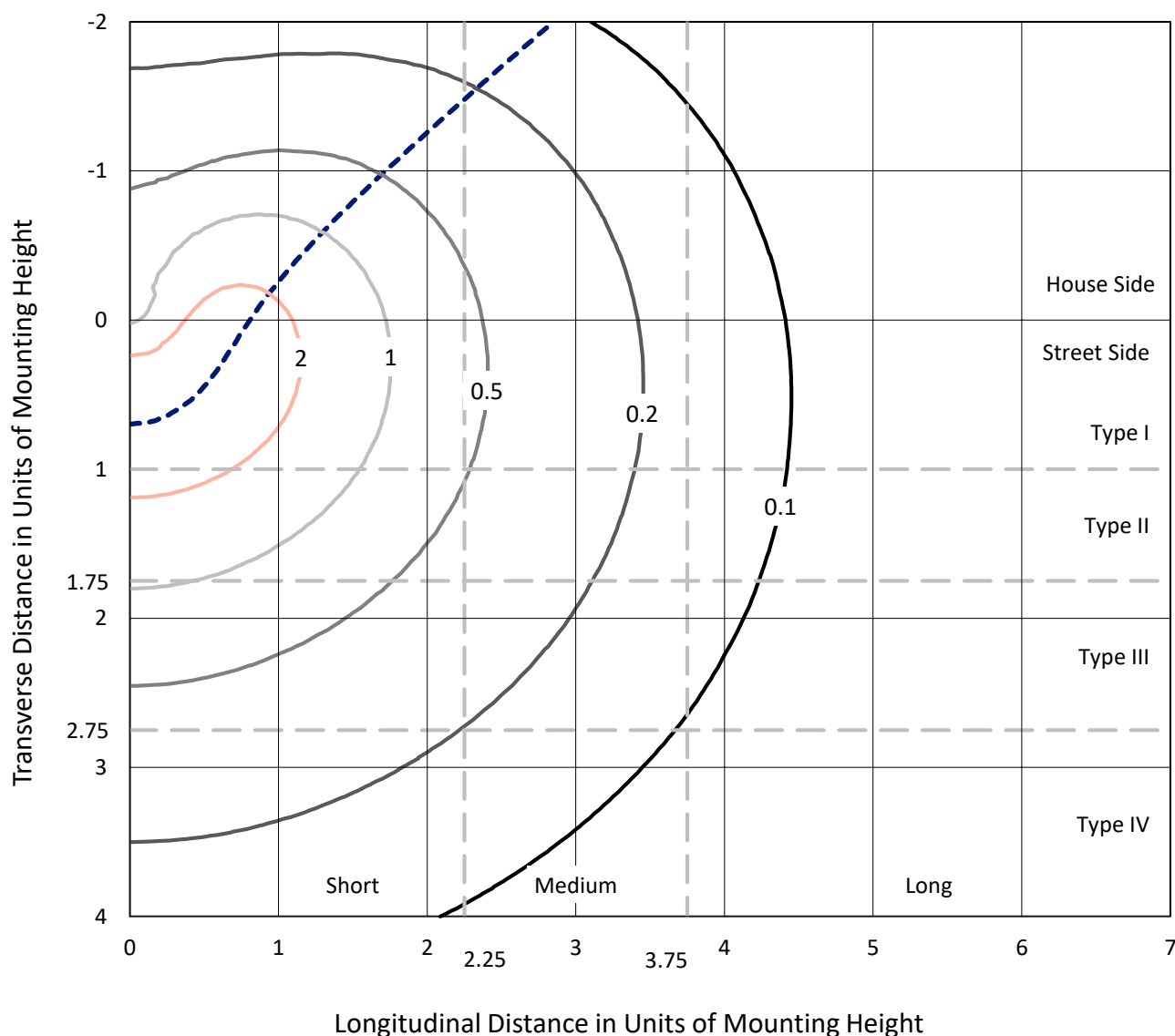
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

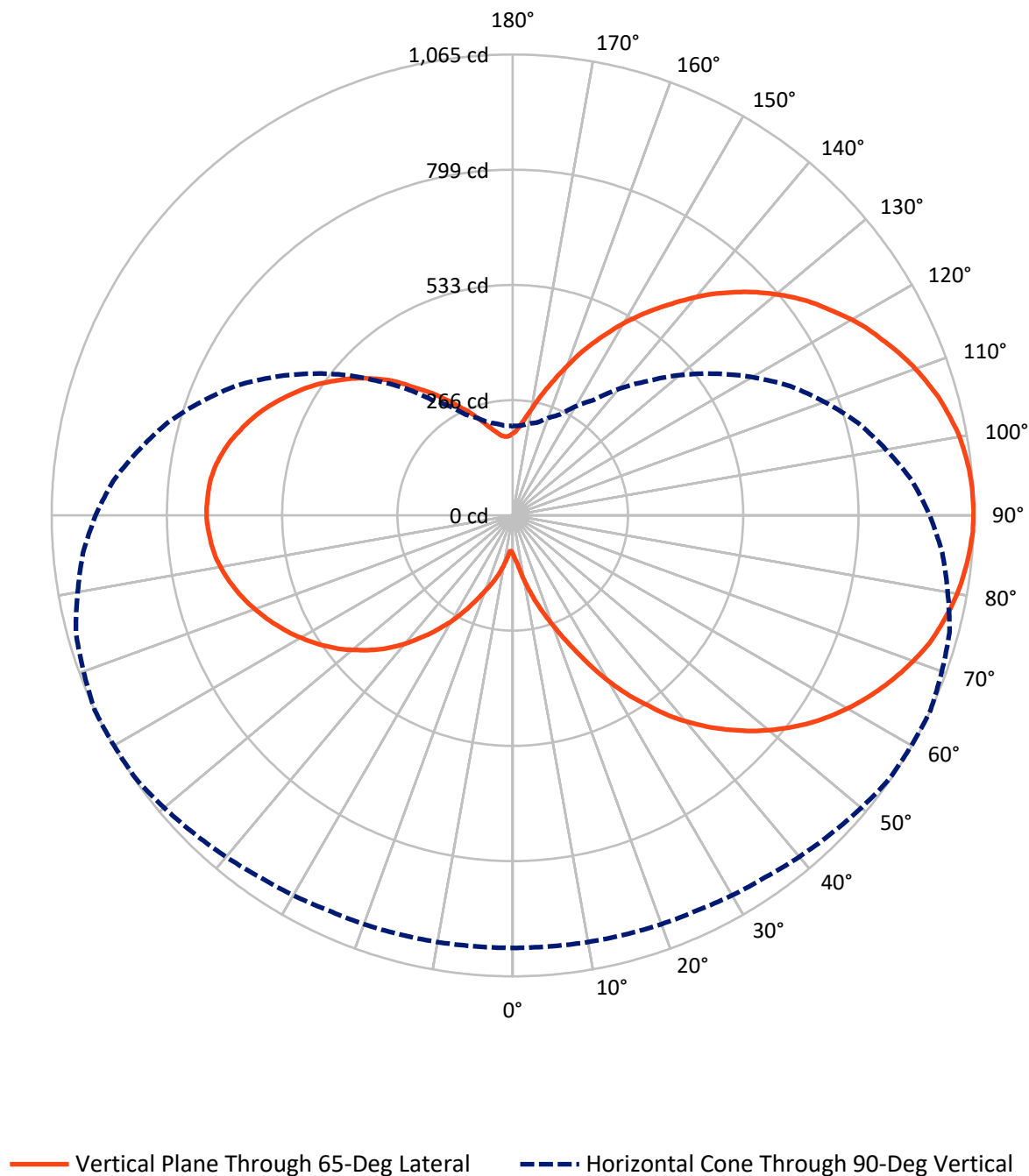


Based on 10 foot mounting height. Maximum calculated value = 3 fc  
 Type - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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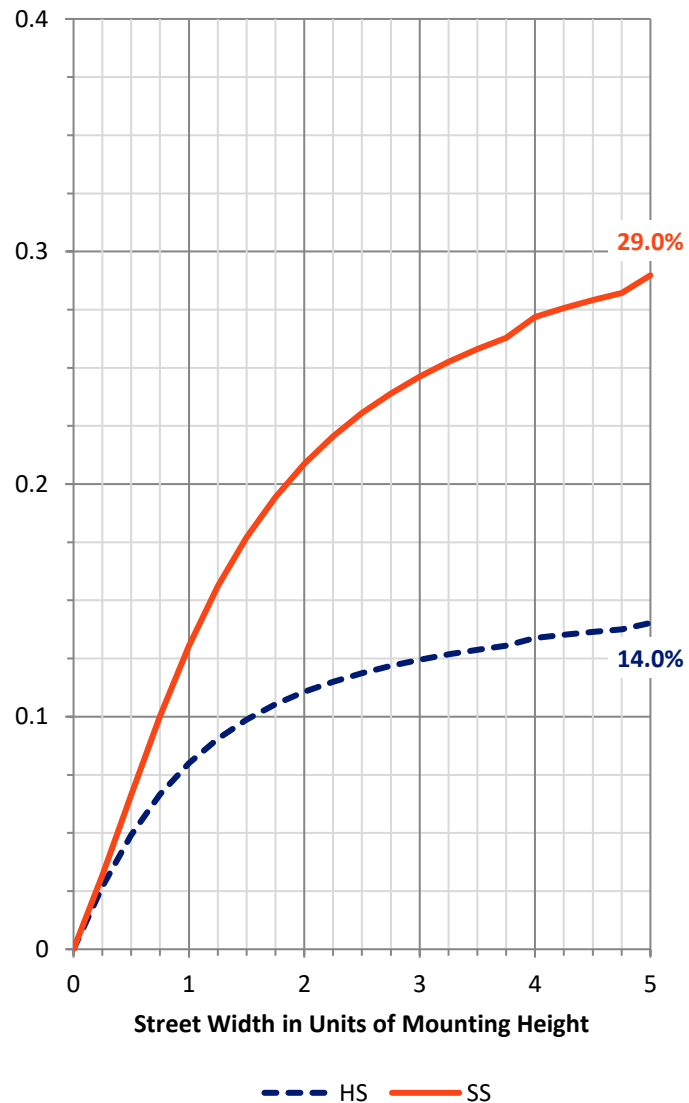
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1150.0   | 1207.8 | 2357.8 |
|                    | % Fixture | 15.7     | 16.5   | 32.2   |
| <b>Street Side</b> | Lumens    | 2458.7   | 2514.6 | 4973.2 |
|                    | % Fixture | 33.5     | 34.3   | 67.8   |
| <b>Total</b>       | Lumens    | 3608.7   | 3722.4 | 7331.1 |
|                    | % Fixture | 49.2     | 50.8   | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 10.4   | 0.1       |
| 10°-20°   | 49.9   | 0.7       |
| 20°-30°   | 125.8  | 1.7       |
| 30°-40°   | 245.2  | 3.3       |
| 40°-50°   | 388.9  | 5.3       |
| 50°-60°   | 533.7  | 7.3       |
| 60°-70°   | 663.8  | 9.1       |
| 70°-80°   | 766.5  | 10.5      |
| 80°-90°   | 824.3  | 11.2      |
| 90°-100°  | 827.4  | 11.3      |
| 100°-110° | 771.9  | 10.5      |
| 110°-120° | 669.7  | 9.1       |
| 120°-130° | 541.7  | 7.4       |
| 130°-140° | 401.4  | 5.5       |
| 140°-150° | 265.8  | 3.6       |
| 150°-160° | 153.8  | 2.1       |
| 160°-170° | 71.5   | 1.0       |
| 170°-180° | 19.3   | 0.3       |
| 0°-90°    | 3608.7 | 49.2      |
| 0°-180°   | 7331.1 | 100.0     |

**Coefficient of Utilization**



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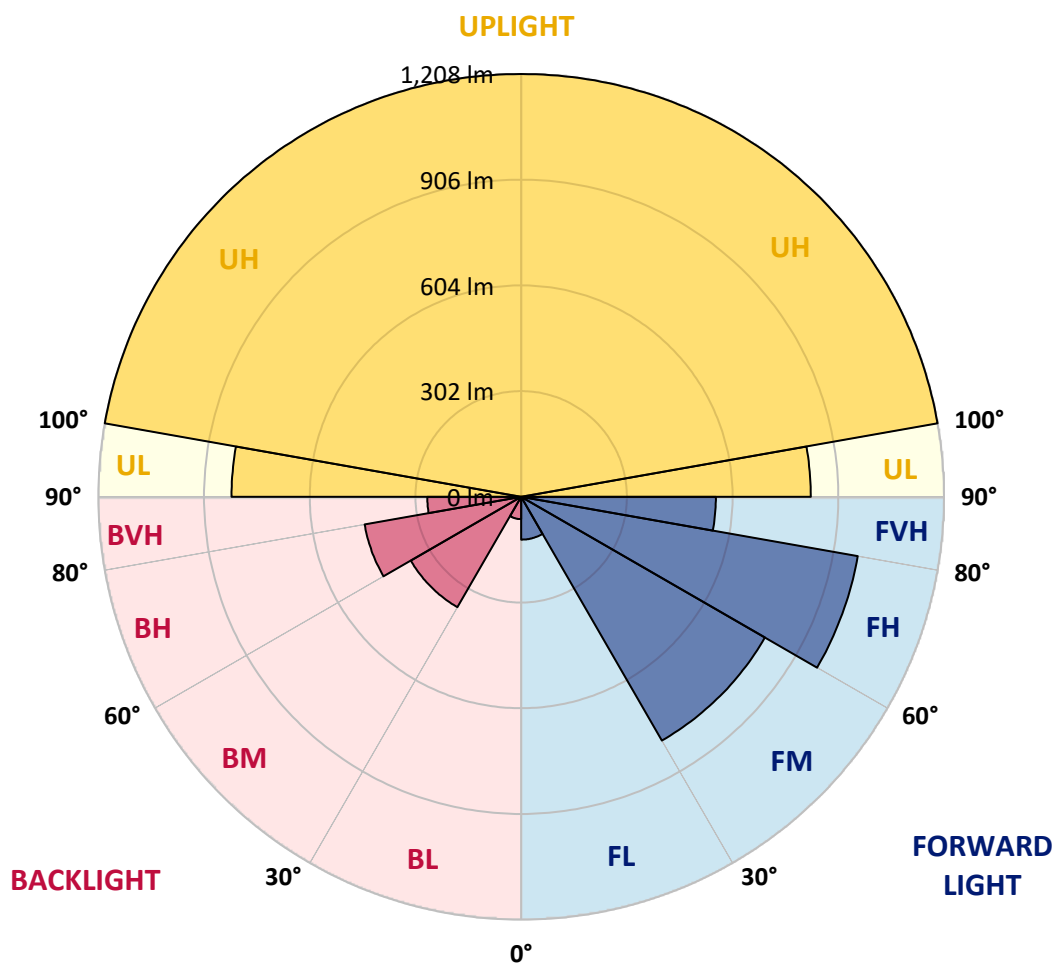
CATALOG NUMBER: ULA-A8-D-U-ASYM-VMx-7027-BK

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |         |         |
|------|-------------|--------|-----------|-------------------------|---------|---------|
|      |             |        |           | B                       | U       | G       |
| FL   | (0°-30°)    | 122.4  | 1.7       |                         |         |         |
| FM   | (30°-60°)   | 804.0  | 11.0      |                         |         |         |
| FH   | (60°-80°)   | 976.2  | 13.3      |                         |         | G1/1800 |
| FVH  | (80°-90°)   | 556.1  | 7.6       |                         |         | G4/750  |
| BL   | (0°-30°)    | 63.7   | 0.9       | B0/110                  |         |         |
| BM   | (30°-60°)   | 363.9  | 5.0       | B1/1000                 |         |         |
| BH   | (60°-80°)   | 454.1  | 6.2       | B1/500                  |         | G1/500  |
| BVH  | (80°-90°)   | 268.2  | 3.7       |                         |         | G3/500  |
| UL   | (90°-100°)  | 827.4  | 11.3      |                         | U4/1000 |         |
| UH   | (100°-180°) | 1207.8 | 16.5      |                         | U5      |         |

**BUG Rating: B1-U5-G4**

Type Short



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CATALOG NUMBER: ULA-A8-D-U-ASYM-VMx-7027-BK

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°   | 90°   |
|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0°     | 89.2  | 89.2  | 89.2   | 89.2   | 89.2   | 89.2   | 89.2   | 89.2   | 89.2   | 89.2  | 89.2  |
| 2.5°   | 109.5 | 106.4 | 106.4  | 104.8  | 104.8  | 103.2  | 101.7  | 100.1  | 97.0   | 93.8  | 92.3  |
| 5°     | 131.4 | 129.8 | 129.8  | 126.7  | 123.6  | 120.4  | 115.7  | 111.0  | 106.4  | 100.1 | 98.5  |
| 7.5°   | 156.4 | 154.8 | 154.8  | 150.2  | 147.0  | 142.3  | 137.6  | 131.4  | 125.1  | 118.9 | 115.7 |
| 10°    | 181.4 | 179.9 | 179.9  | 176.7  | 173.6  | 167.4  | 161.1  | 156.4  | 147.0  | 139.2 | 136.1 |
| 12.5°  | 208.0 | 204.9 | 204.9  | 201.8  | 200.2  | 195.5  | 189.3  | 183.0  | 172.0  | 162.7 | 158.0 |
| 15°    | 233.0 | 231.5 | 231.5  | 229.9  | 228.4  | 223.7  | 217.4  | 211.2  | 200.2  | 189.3 | 183.0 |
| 17.5°  | 261.2 | 259.6 | 258.1  | 258.1  | 258.1  | 253.4  | 248.7  | 242.4  | 229.9  | 215.8 | 209.6 |
| 20°    | 292.5 | 289.4 | 289.4  | 290.9  | 290.9  | 287.8  | 283.1  | 275.3  | 262.8  | 247.1 | 237.7 |
| 22.5°  | 325.3 | 323.8 | 325.3  | 325.3  | 326.9  | 325.3  | 320.6  | 312.8  | 300.3  | 281.5 | 270.6 |
| 25°    | 361.3 | 359.7 | 362.9  | 364.4  | 367.6  | 369.1  | 364.4  | 355.0  | 341.0  | 319.1 | 306.6 |
| 27.5°  | 405.1 | 403.5 | 405.1  | 411.4  | 412.9  | 414.5  | 411.4  | 403.5  | 386.3  | 361.3 | 345.7 |
| 30°    | 444.2 | 444.2 | 447.3  | 452.0  | 456.7  | 459.8  | 456.7  | 450.5  | 431.7  | 403.5 | 386.3 |
| 32.5°  | 484.9 | 486.4 | 488.0  | 494.3  | 500.5  | 505.2  | 502.1  | 497.4  | 475.5  | 448.9 | 427.0 |
| 35°    | 528.7 | 530.2 | 530.2  | 538.0  | 545.9  | 549.0  | 550.6  | 539.6  | 522.4  | 489.6 | 466.1 |
| 37.5°  | 572.5 | 570.9 | 572.5  | 580.3  | 588.1  | 592.8  | 594.4  | 588.1  | 566.2  | 530.2 | 506.8 |
| 40°    | 610.0 | 610.0 | 613.1  | 620.9  | 628.8  | 635.0  | 636.6  | 628.8  | 608.4  | 569.3 | 544.3 |
| 42.5°  | 649.1 | 649.1 | 652.2  | 658.5  | 667.9  | 674.1  | 677.2  | 669.4  | 646.0  | 608.4 | 580.3 |
| 45°    | 685.1 | 685.1 | 688.2  | 696.0  | 705.4  | 711.7  | 716.4  | 707.0  | 683.5  | 644.4 | 617.8 |
| 47.5°  | 719.5 | 721.0 | 722.6  | 728.9  | 739.8  | 746.1  | 752.3  | 744.5  | 719.5  | 675.7 | 649.1 |
| 50°    | 752.3 | 753.9 | 755.5  | 763.3  | 771.1  | 778.9  | 786.7  | 778.9  | 755.5  | 710.1 | 680.4 |
| 52.5°  | 782.0 | 783.6 | 786.7  | 789.9  | 800.8  | 810.2  | 818.0  | 811.8  | 785.2  | 739.8 | 708.5 |
| 55°    | 813.3 | 813.3 | 814.9  | 818.0  | 829.0  | 839.9  | 849.3  | 843.0  | 816.5  | 769.5 | 738.2 |
| 57.5°  | 839.9 | 839.9 | 841.5  | 844.6  | 854.0  | 864.9  | 875.9  | 871.2  | 844.6  | 796.1 | 764.8 |
| 60°    | 863.4 | 863.4 | 864.9  | 868.1  | 877.5  | 891.5  | 902.5  | 897.8  | 871.2  | 821.1 | 789.9 |
| 62.5°  | 886.8 | 886.8 | 888.4  | 891.5  | 900.9  | 915.0  | 927.5  | 922.8  | 896.2  | 846.2 | 813.3 |
| 65°    | 907.2 | 907.2 | 907.2  | 910.3  | 921.2  | 936.9  | 949.4  | 946.3  | 918.1  | 869.6 | 835.2 |
| 67.5°  | 925.9 | 925.9 | 925.9  | 927.5  | 940.0  | 955.7  | 971.3  | 968.2  | 941.6  | 891.5 | 855.6 |
| 70°    | 944.7 | 941.6 | 944.7  | 944.7  | 957.2  | 974.4  | 990.1  | 988.5  | 961.9  | 911.9 | 875.9 |
| 72.5°  | 958.8 | 957.2 | 958.8  | 961.9  | 972.9  | 990.1  | 1007.3 | 1007.3 | 980.7  | 929.1 | 894.7 |
| 75°    | 969.7 | 969.7 | 969.7  | 972.9  | 985.4  | 1004.1 | 1021.3 | 1021.3 | 996.3  | 944.7 | 910.3 |
| 77.5°  | 980.7 | 980.7 | 982.2  | 983.8  | 996.3  | 1015.1 | 1035.4 | 1033.9 | 1010.4 | 958.8 | 925.9 |
| 80°    | 988.5 | 986.9 | 988.5  | 993.2  | 1004.1 | 1024.5 | 1044.8 | 1044.8 | 1021.3 | 971.3 | 936.9 |
| 82.5°  | 994.8 | 993.2 | 994.8  | 999.4  | 1010.4 | 1032.3 | 1052.6 | 1052.6 | 1030.7 | 982.2 | 947.8 |
| 85°    | 997.9 | 997.9 | 999.4  | 1004.1 | 1015.1 | 1037.0 | 1057.3 | 1058.9 | 1038.6 | 990.1 | 955.7 |
| 87.5°  | 999.4 | 999.4 | 1001.0 | 1007.3 | 1018.2 | 1038.6 | 1060.4 | 1063.6 | 1043.2 | 993.2 | 960.3 |
| 90°    | 999.4 | 999.4 | 1002.6 | 1007.3 | 1019.8 | 1040.1 | 1062.0 | 1065.1 | 1044.8 | 996.3 | 963.5 |
| 92.5°  | 999.4 | 997.9 | 1002.6 | 1007.3 | 1018.2 | 1038.6 | 1060.4 | 1063.6 | 1044.8 | 996.3 | 963.5 |
| 95°    | 996.3 | 994.8 | 999.4  | 1004.1 | 1015.1 | 1035.4 | 1055.8 | 1060.4 | 1041.7 | 994.8 | 960.3 |
| 97.5°  | 990.1 | 990.1 | 993.2  | 999.4  | 1010.4 | 1029.2 | 1051.1 | 1054.2 | 1035.4 | 988.5 | 955.7 |
| 100°   | 983.8 | 983.8 | 986.9  | 991.6  | 1002.6 | 1022.9 | 1041.7 | 1046.4 | 1024.5 | 980.7 | 946.3 |
| 102.5° | 976.0 | 976.0 | 977.6  | 982.2  | 994.8  | 1013.5 | 1030.7 | 1033.9 | 1015.1 | 968.2 | 935.3 |
| 105°   | 965.0 | 963.5 | 966.6  | 971.3  | 982.2  | 1001.0 | 1018.2 | 1021.3 | 999.4  | 954.1 | 921.2 |
| 107.5° | 951.0 | 951.0 | 951.0  | 957.2  | 968.2  | 986.9  | 1002.6 | 1004.1 | 982.2  | 936.9 | 902.5 |
| 110°   | 936.9 | 936.9 | 936.9  | 941.6  | 954.1  | 971.3  | 986.9  | 986.9  | 963.5  | 918.1 | 886.8 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 921.2 | 919.7 | 919.7 | 924.4 | 936.9 | 954.1 | 969.7 | 966.6 | 943.1 | 897.8 | 866.5 |
| 115°   | 902.5 | 902.5 | 900.9 | 905.6 | 919.7 | 935.3 | 949.4 | 944.7 | 922.8 | 875.9 | 844.6 |
| 117.5° | 883.7 | 882.1 | 882.1 | 886.8 | 899.3 | 916.6 | 929.1 | 924.4 | 899.3 | 854.0 | 822.7 |
| 120°   | 863.4 | 861.8 | 860.2 | 864.9 | 879.0 | 894.7 | 905.6 | 899.3 | 872.8 | 829.0 | 799.2 |
| 122.5° | 839.9 | 838.3 | 838.3 | 843.0 | 857.1 | 872.8 | 882.1 | 872.8 | 849.3 | 803.9 | 774.2 |
| 125°   | 814.9 | 816.5 | 814.9 | 819.6 | 832.1 | 849.3 | 857.1 | 847.7 | 822.7 | 777.3 | 747.6 |
| 127.5° | 789.9 | 789.9 | 788.3 | 794.6 | 807.1 | 822.7 | 830.5 | 819.6 | 794.6 | 749.2 | 721.0 |
| 130°   | 763.3 | 763.3 | 761.7 | 768.0 | 780.5 | 794.6 | 799.2 | 788.3 | 763.3 | 719.5 | 691.3 |
| 132.5° | 733.6 | 735.1 | 735.1 | 741.4 | 752.3 | 763.3 | 769.5 | 757.0 | 732.0 | 689.8 | 661.6 |
| 135°   | 705.4 | 703.8 | 705.4 | 710.1 | 722.6 | 732.0 | 733.6 | 722.6 | 699.1 | 656.9 | 630.3 |
| 137.5° | 672.6 | 674.1 | 674.1 | 678.8 | 689.8 | 699.1 | 700.7 | 688.2 | 664.7 | 624.1 | 597.5 |
| 140°   | 641.3 | 641.3 | 644.4 | 647.5 | 655.4 | 663.2 | 663.2 | 650.7 | 628.8 | 588.1 | 563.1 |
| 142.5° | 608.4 | 608.4 | 610.0 | 616.2 | 622.5 | 627.2 | 625.6 | 613.1 | 591.2 | 552.1 | 530.2 |
| 145°   | 577.1 | 577.1 | 578.7 | 583.4 | 588.1 | 591.2 | 588.1 | 577.1 | 555.2 | 516.1 | 495.8 |
| 147.5° | 547.4 | 545.9 | 549.0 | 552.1 | 555.2 | 556.8 | 553.7 | 541.2 | 517.7 | 484.9 | 463.0 |
| 150°   | 516.1 | 516.1 | 516.1 | 520.8 | 522.4 | 522.4 | 517.7 | 505.2 | 483.3 | 450.5 | 431.7 |
| 152.5° | 484.9 | 483.3 | 484.9 | 486.4 | 488.0 | 486.4 | 480.2 | 467.7 | 447.3 | 417.6 | 400.4 |
| 155°   | 452.0 | 452.0 | 453.6 | 453.6 | 453.6 | 452.0 | 445.8 | 431.7 | 412.9 | 386.3 | 366.0 |
| 157.5° | 420.7 | 420.7 | 420.7 | 420.7 | 420.7 | 417.6 | 409.8 | 397.3 | 375.4 | 351.9 | 339.4 |
| 160°   | 389.5 | 389.5 | 387.9 | 386.3 | 384.8 | 378.5 | 372.3 | 359.7 | 344.1 | 323.8 | 312.8 |
| 162.5° | 355.0 | 353.5 | 353.5 | 351.9 | 350.4 | 345.7 | 337.8 | 326.9 | 312.8 | 295.6 | 286.2 |
| 165°   | 323.8 | 322.2 | 320.6 | 320.6 | 317.5 | 312.8 | 306.6 | 297.2 | 284.7 | 269.0 | 261.2 |
| 167.5° | 295.6 | 294.0 | 292.5 | 292.5 | 289.4 | 283.1 | 276.8 | 269.0 | 258.1 | 245.6 | 239.3 |
| 170°   | 270.6 | 269.0 | 267.5 | 265.9 | 262.8 | 258.1 | 251.8 | 244.0 | 236.2 | 226.8 | 220.5 |
| 172.5° | 245.6 | 244.0 | 242.4 | 242.4 | 239.3 | 234.6 | 229.9 | 223.7 | 217.4 | 209.6 | 206.5 |
| 175°   | 222.1 | 223.7 | 222.1 | 220.5 | 219.0 | 214.3 | 211.2 | 206.5 | 203.3 | 198.6 | 195.5 |
| 177.5° | 203.3 | 204.9 | 204.9 | 203.3 | 201.8 | 198.6 | 197.1 | 193.9 | 192.4 | 189.3 | 187.7 |
| 180°   | 187.7 | 187.7 | 187.7 | 187.7 | 187.7 | 187.7 | 187.7 | 187.7 | 187.7 | 187.7 | 187.7 |



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**CANDELA DISTRIBUTION (continued):**

|        | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 89.2  | 89.2  | 89.2  | 89.2  | 89.2  | 89.2  | 89.2  | 89.2  | 89.2  | 89.2  |
| 2.5°   | 90.7  | 86.0  | 82.9  | 78.2  | 73.5  | 70.4  | 67.3  | 64.1  | 62.6  | 62.6  |
| 5°     | 93.8  | 89.2  | 82.9  | 76.6  | 71.9  | 65.7  | 62.6  | 59.4  | 57.9  | 57.9  |
| 7.5°   | 111.0 | 104.8 | 97.0  | 89.2  | 82.9  | 75.1  | 70.4  | 67.3  | 65.7  | 65.7  |
| 10°    | 129.8 | 122.0 | 112.6 | 103.2 | 95.4  | 87.6  | 81.3  | 76.6  | 75.1  | 75.1  |
| 12.5°  | 151.7 | 140.8 | 129.8 | 117.3 | 107.9 | 97.0  | 90.7  | 86.0  | 84.5  | 82.9  |
| 15°    | 175.2 | 161.1 | 147.0 | 131.4 | 118.9 | 107.9 | 98.5  | 92.3  | 90.7  | 90.7  |
| 17.5°  | 200.2 | 181.4 | 164.2 | 145.5 | 129.8 | 114.2 | 104.8 | 97.0  | 93.8  | 93.8  |
| 20°    | 226.8 | 204.9 | 181.4 | 159.5 | 139.2 | 122.0 | 107.9 | 100.1 | 95.4  | 95.4  |
| 22.5°  | 258.1 | 231.5 | 201.8 | 175.2 | 151.7 | 129.8 | 112.6 | 101.7 | 97.0  | 95.4  |
| 25°    | 290.9 | 258.1 | 225.2 | 193.9 | 164.2 | 137.6 | 118.9 | 106.4 | 98.5  | 98.5  |
| 27.5°  | 326.9 | 289.4 | 250.3 | 212.7 | 176.7 | 147.0 | 123.6 | 109.5 | 101.7 | 100.1 |
| 30°    | 366.0 | 322.2 | 276.8 | 231.5 | 190.8 | 156.4 | 129.8 | 112.6 | 104.8 | 103.2 |
| 32.5°  | 403.5 | 353.5 | 301.9 | 251.8 | 204.9 | 164.2 | 136.1 | 117.3 | 107.9 | 106.4 |
| 35°    | 444.2 | 387.9 | 328.5 | 272.2 | 219.0 | 173.6 | 140.8 | 120.4 | 111.0 | 109.5 |
| 37.5°  | 481.7 | 420.7 | 353.5 | 290.9 | 233.0 | 183.0 | 147.0 | 125.1 | 114.2 | 112.6 |
| 40°    | 517.7 | 453.6 | 381.6 | 311.3 | 247.1 | 192.4 | 153.3 | 129.8 | 117.3 | 115.7 |
| 42.5°  | 552.1 | 484.9 | 408.2 | 330.0 | 259.6 | 201.8 | 159.5 | 134.5 | 122.0 | 120.4 |
| 45°    | 586.5 | 513.0 | 433.3 | 348.8 | 273.7 | 209.6 | 165.8 | 137.6 | 126.7 | 123.6 |
| 47.5°  | 617.8 | 541.2 | 456.7 | 367.6 | 286.2 | 219.0 | 170.5 | 142.3 | 129.8 | 128.3 |
| 50°    | 647.5 | 569.3 | 478.6 | 386.3 | 298.7 | 226.8 | 176.7 | 147.0 | 134.5 | 132.9 |
| 52.5°  | 675.7 | 594.4 | 502.1 | 405.1 | 309.7 | 234.6 | 183.0 | 151.7 | 139.2 | 137.6 |
| 55°    | 702.3 | 619.4 | 522.4 | 420.7 | 322.2 | 242.4 | 187.7 | 158.0 | 143.9 | 142.3 |
| 57.5°  | 730.4 | 642.8 | 542.7 | 437.9 | 333.1 | 250.3 | 193.9 | 162.7 | 148.6 | 147.0 |
| 60°    | 752.3 | 664.7 | 561.5 | 452.0 | 344.1 | 258.1 | 200.2 | 167.4 | 153.3 | 151.7 |
| 62.5°  | 777.3 | 685.1 | 580.3 | 467.7 | 355.0 | 265.9 | 206.5 | 173.6 | 159.5 | 158.0 |
| 65°    | 797.7 | 705.4 | 597.5 | 481.7 | 364.4 | 272.2 | 211.2 | 178.3 | 164.2 | 162.7 |
| 67.5°  | 819.6 | 725.7 | 614.7 | 495.8 | 375.4 | 280.0 | 217.4 | 184.6 | 170.5 | 168.9 |
| 70°    | 838.3 | 742.9 | 630.3 | 508.3 | 386.3 | 287.8 | 223.7 | 189.3 | 176.7 | 173.6 |
| 72.5°  | 855.6 | 761.7 | 646.0 | 520.8 | 398.8 | 294.0 | 229.9 | 195.5 | 181.4 | 179.9 |
| 75°    | 871.2 | 775.8 | 660.0 | 531.8 | 406.7 | 300.3 | 234.6 | 200.2 | 187.7 | 184.6 |
| 77.5°  | 886.8 | 789.9 | 672.6 | 542.7 | 414.5 | 308.1 | 240.9 | 206.5 | 192.4 | 190.8 |
| 80°    | 899.3 | 800.8 | 683.5 | 550.6 | 420.7 | 312.8 | 245.6 | 211.2 | 197.1 | 195.5 |
| 82.5°  | 908.7 | 810.2 | 692.9 | 558.4 | 427.0 | 317.5 | 248.7 | 214.3 | 200.2 | 198.6 |
| 85°    | 916.6 | 818.0 | 699.1 | 564.6 | 433.3 | 320.6 | 253.4 | 217.4 | 203.3 | 201.8 |
| 87.5°  | 922.8 | 822.7 | 703.8 | 569.3 | 434.8 | 323.8 | 254.9 | 220.5 | 206.5 | 204.9 |
| 90°    | 925.9 | 825.8 | 707.0 | 570.9 | 437.9 | 325.3 | 256.5 | 222.1 | 208.0 | 206.5 |
| 92.5°  | 924.4 | 825.8 | 707.0 | 572.5 | 439.5 | 326.9 | 258.1 | 222.1 | 208.0 | 206.5 |
| 95°    | 922.8 | 824.3 | 705.4 | 570.9 | 437.9 | 326.9 | 258.1 | 222.1 | 208.0 | 206.5 |
| 97.5°  | 916.6 | 819.6 | 702.3 | 567.8 | 436.4 | 325.3 | 254.9 | 220.5 | 206.5 | 204.9 |
| 100°   | 908.7 | 810.2 | 696.0 | 563.1 | 433.3 | 322.2 | 253.4 | 217.4 | 203.3 | 201.8 |
| 102.5° | 896.2 | 800.8 | 686.6 | 556.8 | 427.0 | 317.5 | 248.7 | 214.3 | 200.2 | 198.6 |
| 105°   | 882.1 | 788.3 | 675.7 | 547.4 | 420.7 | 312.8 | 244.0 | 209.6 | 195.5 | 193.9 |
| 107.5° | 868.1 | 771.1 | 661.6 | 536.5 | 412.9 | 306.6 | 239.3 | 204.9 | 190.8 | 189.3 |
| 110°   | 849.3 | 755.5 | 647.5 | 525.5 | 403.5 | 298.7 | 233.0 | 198.6 | 186.1 | 183.0 |



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**CANDELA DISTRIBUTION (continued):**

|        | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 829.0 | 738.2 | 631.9 | 511.5 | 394.1 | 292.5 | 228.4 | 193.9 | 179.9 | 178.3 |
| 115°   | 808.6 | 717.9 | 614.7 | 498.9 | 380.1 | 284.7 | 222.1 | 189.3 | 175.2 | 173.6 |
| 117.5° | 786.7 | 697.6 | 595.9 | 483.3 | 369.1 | 276.8 | 215.8 | 183.0 | 168.9 | 167.4 |
| 120°   | 763.3 | 677.2 | 577.1 | 467.7 | 358.2 | 269.0 | 209.6 | 178.3 | 164.2 | 162.7 |
| 122.5° | 739.8 | 655.4 | 558.4 | 453.6 | 347.2 | 261.2 | 204.9 | 172.0 | 159.5 | 156.4 |
| 125°   | 714.8 | 631.9 | 538.0 | 436.4 | 336.3 | 254.9 | 198.6 | 167.4 | 154.8 | 153.3 |
| 127.5° | 688.2 | 606.9 | 516.1 | 419.2 | 323.8 | 247.1 | 193.9 | 164.2 | 150.2 | 148.6 |
| 130°   | 660.0 | 583.4 | 495.8 | 403.5 | 312.8 | 239.3 | 189.3 | 159.5 | 145.5 | 143.9 |
| 132.5° | 630.3 | 556.8 | 473.9 | 383.2 | 300.3 | 231.5 | 183.0 | 154.8 | 142.3 | 140.8 |
| 135°   | 599.0 | 530.2 | 450.5 | 364.4 | 287.8 | 223.7 | 178.3 | 151.7 | 139.2 | 137.6 |
| 137.5° | 569.3 | 502.1 | 428.6 | 347.2 | 276.8 | 217.4 | 175.2 | 148.6 | 137.6 | 136.1 |
| 140°   | 534.9 | 472.4 | 403.5 | 330.0 | 264.3 | 209.6 | 170.5 | 145.5 | 134.5 | 132.9 |
| 142.5° | 502.1 | 444.2 | 376.9 | 312.8 | 253.4 | 203.3 | 167.4 | 143.9 | 132.9 | 131.4 |
| 145°   | 470.8 | 416.0 | 355.0 | 297.2 | 242.4 | 197.1 | 162.7 | 142.3 | 132.9 | 131.4 |
| 147.5° | 441.1 | 391.0 | 334.7 | 281.5 | 231.5 | 190.8 | 159.5 | 140.8 | 131.4 | 129.8 |
| 150°   | 411.4 | 361.3 | 312.8 | 265.9 | 222.1 | 184.6 | 158.0 | 139.2 | 131.4 | 129.8 |
| 152.5° | 376.9 | 336.3 | 294.0 | 251.8 | 212.7 | 179.9 | 154.8 | 139.2 | 131.4 | 131.4 |
| 155°   | 350.4 | 312.8 | 275.3 | 237.7 | 204.9 | 176.7 | 154.8 | 140.8 | 132.9 | 132.9 |
| 157.5° | 323.8 | 292.5 | 259.6 | 226.8 | 198.6 | 173.6 | 154.8 | 142.3 | 136.1 | 136.1 |
| 160°   | 298.7 | 272.2 | 244.0 | 217.4 | 192.4 | 172.0 | 154.8 | 143.9 | 139.2 | 137.6 |
| 162.5° | 275.3 | 251.8 | 228.4 | 206.5 | 186.1 | 168.9 | 154.8 | 145.5 | 140.8 | 140.8 |
| 165°   | 251.8 | 233.0 | 214.3 | 197.1 | 181.4 | 165.8 | 154.8 | 148.6 | 143.9 | 143.9 |
| 167.5° | 231.5 | 217.4 | 203.3 | 189.3 | 176.7 | 165.8 | 156.4 | 150.2 | 148.6 | 147.0 |
| 170°   | 215.8 | 204.9 | 193.9 | 183.0 | 173.6 | 164.2 | 158.0 | 154.8 | 151.7 | 151.7 |
| 172.5° | 201.8 | 193.9 | 186.1 | 178.3 | 172.0 | 165.8 | 162.7 | 159.5 | 158.0 | 158.0 |
| 175°   | 192.4 | 187.7 | 183.0 | 178.3 | 175.2 | 170.5 | 168.9 | 167.4 | 165.8 | 165.8 |
| 177.5° | 187.7 | 184.6 | 183.0 | 181.4 | 179.9 | 178.3 | 178.3 | 176.7 | 176.7 | 176.7 |
| 180°   | 187.7 | 187.7 | 187.7 | 187.7 | 187.7 | 187.7 | 187.7 | 187.7 | 187.7 | 187.7 |

(END OF REPORT)