

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: INVUE

Report Number: P180272

Luminaire Tested: **ICM-F02-LED-E1-RW-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180272
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F02-LED-E1-RW-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4382.2 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): 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

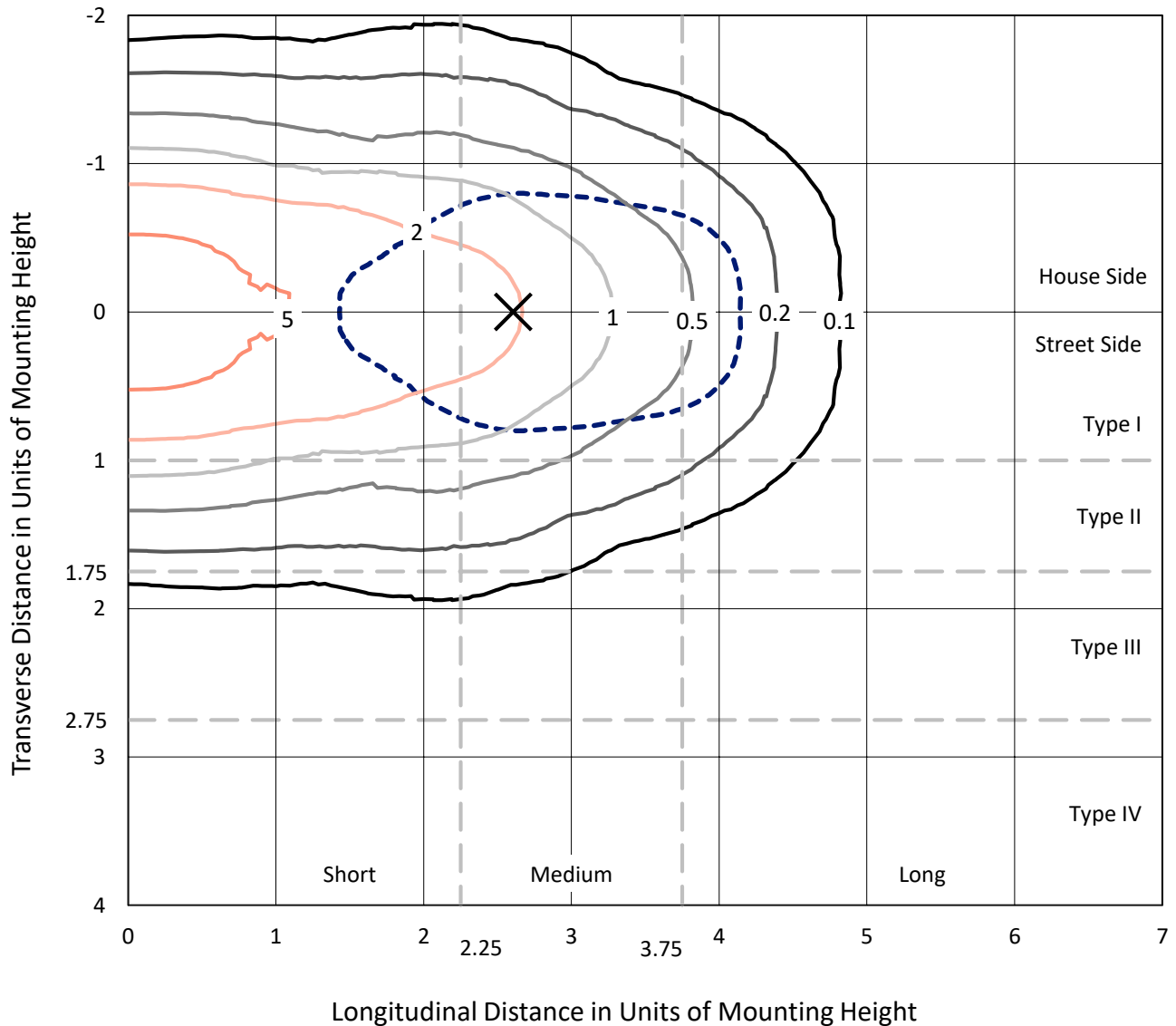


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

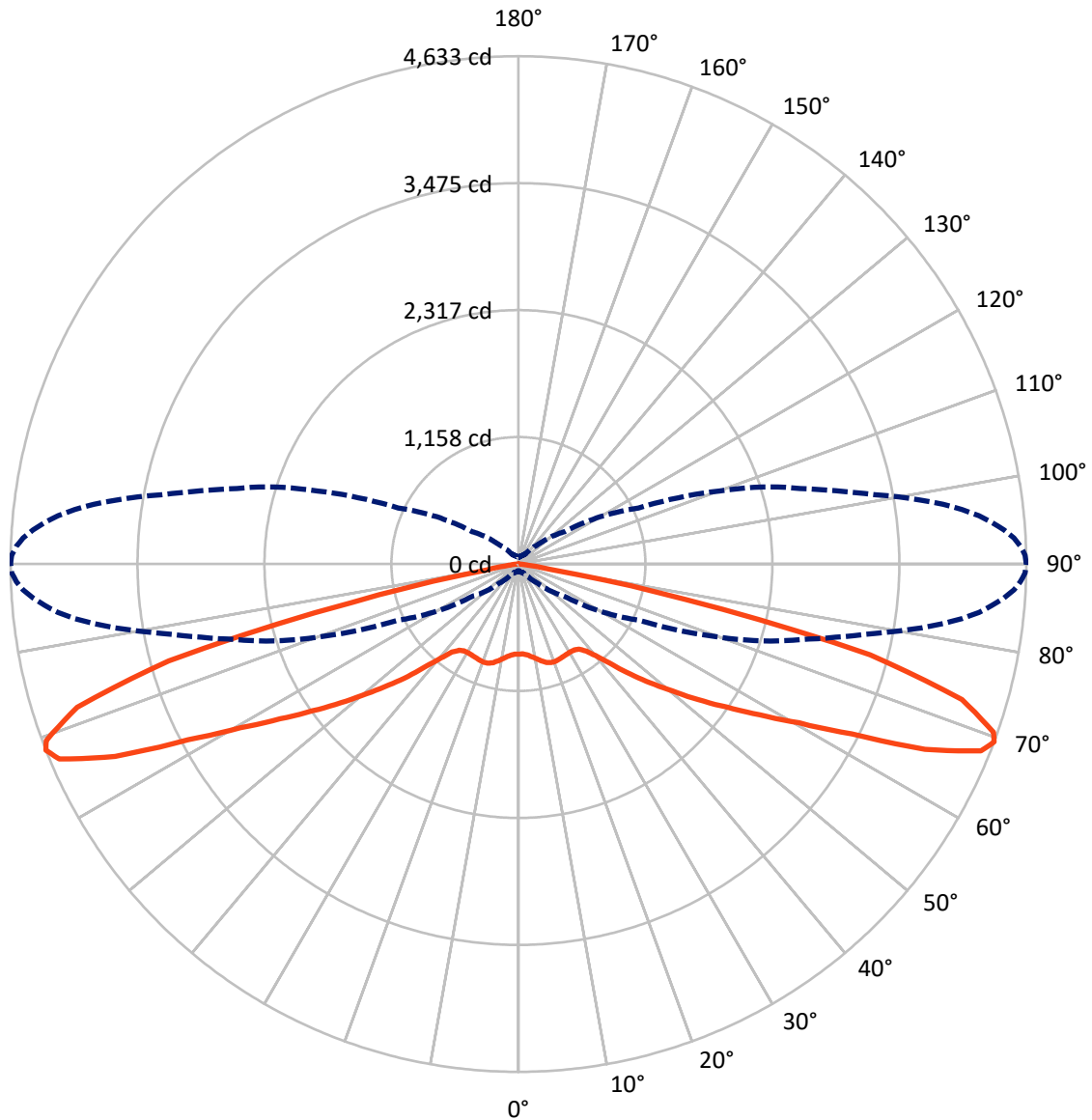


Based on 10 foot mounting height. Maximum calculated value = 8.4 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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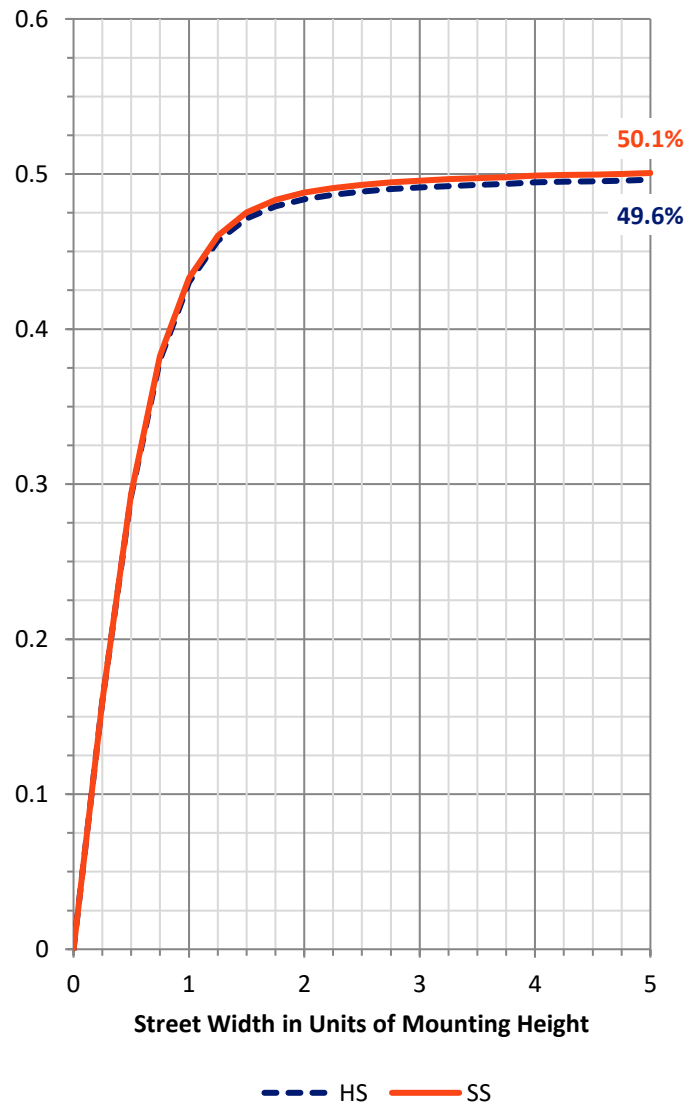
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2191.1 | 0.0 | 2191.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2191.1 | 0.0 | 2191.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 4382.2 | 0.0 | 4382.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 80.5 | 1.8 |
| 10°-20° | 254.1 | 5.8 |
| 20°-30° | 411.6 | 9.4 |
| 30°-40° | 513.0 | 11.7 |
| 40°-50° | 641.1 | 14.6 |
| 50°-60° | 791.6 | 18.1 |
| 60°-70° | 983.5 | 22.4 |
| 70°-80° | 652.9 | 14.9 |
| 80°-90° | 53.9 | 1.2 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 4382.2 | 100.0 |
| 0°-180° | 4382.2 | 100.0 |



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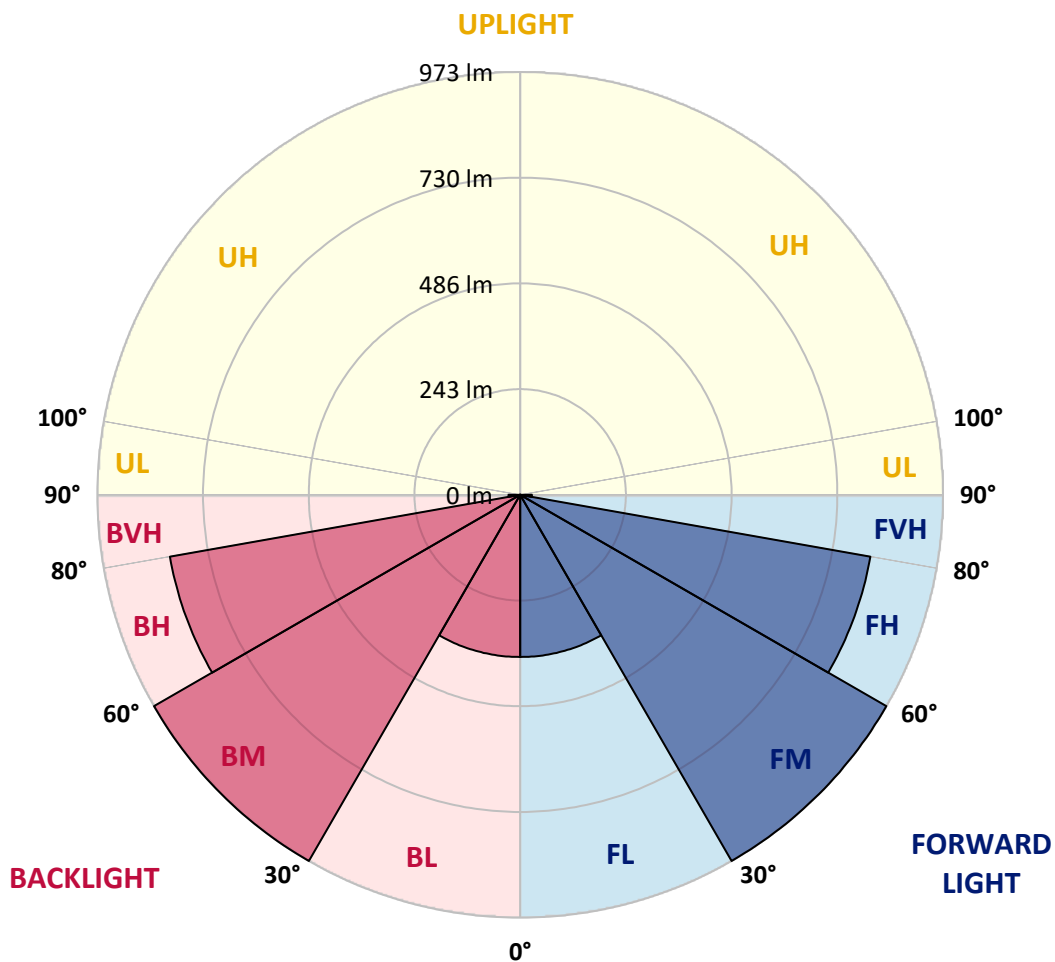
CATALOG NUMBER: ICM-F02-LED-E1-RW-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 373.1 | 8.5 | | | |
| FM (30°-60°) | 972.8 | 22.2 | | | |
| FH (60°-80°) | 818.2 | 18.7 | | | G1/1800 |
| FVH (80°-90°) | 26.9 | 0.6 | | | G1/100 |
| BL (0°-30°) | 373.1 | 8.5 | B1/500 | | |
| BM (30°-60°) | 972.8 | 22.2 | B1/1000 | | |
| BH (60°-80°) | 818.2 | 18.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 26.9 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 71° | 72° |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 0° | 821.1 | 821.1 | 821.1 | 821.1 | 821.1 | 821.1 | 821.1 | 821.1 | 821.1 | 821.1 | 821.1 |
| 2.5° | 824.8 | 825.5 | 825.1 | 826.1 | 825.8 | 825.8 | 825.3 | 824.4 | 823.8 | 823.4 | 823.4 |
| 5° | 832.7 | 831.8 | 833.3 | 834.6 | 834.2 | 834.4 | 834.2 | 834.2 | 833.7 | 833.7 | 833.7 |
| 7.5° | 841.2 | 840.9 | 841.9 | 845.6 | 846.1 | 847.4 | 849.1 | 850.3 | 850.6 | 850.8 | 850.6 |
| 10° | 848.5 | 848.7 | 851.0 | 856.4 | 859.2 | 863.6 | 868.1 | 871.6 | 872.8 | 873.7 | 873.6 |
| 12.5° | 854.3 | 854.5 | 858.1 | 866.4 | 873.2 | 881.7 | 891.3 | 896.6 | 899.0 | 899.4 | 899.8 |
| 15° | 854.7 | 855.4 | 861.6 | 875.4 | 888.9 | 902.7 | 914.1 | 921.4 | 923.3 | 924.6 | 924.7 |
| 17.5° | 848.7 | 849.1 | 859.4 | 879.8 | 902.4 | 924.0 | 935.8 | 939.2 | 939.9 | 940.3 | 940.1 |
| 20° | 832.7 | 833.9 | 848.4 | 878.6 | 913.2 | 941.2 | 953.7 | 949.2 | 947.0 | 946.7 | 946.5 |
| 22.5° | 807.1 | 806.9 | 825.8 | 866.4 | 915.4 | 954.8 | 965.8 | 954.1 | 947.3 | 945.8 | 944.8 |
| 25° | 765.5 | 768.3 | 790.5 | 839.1 | 903.4 | 957.9 | 974.4 | 956.7 | 946.8 | 944.6 | 941.9 |
| 27.5° | 720.4 | 722.0 | 745.6 | 797.8 | 875.5 | 947.4 | 978.6 | 961.9 | 950.7 | 947.6 | 944.5 |
| 30° | 667.7 | 669.9 | 695.1 | 749.6 | 830.9 | 920.2 | 977.5 | 973.6 | 960.6 | 956.8 | 952.8 |
| 32.5° | 616.4 | 618.6 | 641.3 | 700.9 | 784.0 | 883.1 | 970.5 | 990.1 | 976.8 | 972.7 | 968.6 |
| 35° | 563.0 | 566.5 | 594.1 | 654.4 | 738.6 | 841.7 | 959.7 | 1011.4 | 1004.1 | 1000.5 | 996.8 |
| 37.5° | 518.8 | 519.4 | 546.1 | 609.5 | 696.5 | 802.2 | 945.5 | 1038.3 | 1043.6 | 1043.6 | 1044.1 |
| 40° | 469.4 | 473.9 | 500.6 | 567.4 | 658.4 | 768.7 | 931.9 | 1074.8 | 1102.7 | 1107.8 | 1111.8 |
| 42.5° | 425.3 | 425.7 | 452.8 | 521.9 | 616.9 | 741.9 | 924.5 | 1118.7 | 1178.4 | 1189.4 | 1200.3 |
| 45° | 378.8 | 380.7 | 405.2 | 471.8 | 569.3 | 710.1 | 924.3 | 1169.5 | 1264.8 | 1283.2 | 1300.1 |
| 47.5° | 334.8 | 335.4 | 361.5 | 423.4 | 514.6 | 665.7 | 922.6 | 1223.9 | 1353.9 | 1380.8 | 1402.9 |
| 50° | 292.7 | 292.1 | 317.5 | 377.1 | 460.7 | 607.4 | 908.3 | 1285.7 | 1449.7 | 1480.4 | 1507.6 |
| 52.5° | 244.6 | 247.8 | 274.2 | 331.3 | 411.5 | 548.3 | 866.7 | 1353.2 | 1549.4 | 1585.0 | 1619.2 |
| 55° | 197.3 | 198.7 | 227.0 | 280.4 | 361.7 | 493.0 | 794.2 | 1415.5 | 1646.7 | 1687.0 | 1725.0 |
| 57.5° | 145.4 | 149.6 | 174.4 | 227.0 | 311.2 | 446.5 | 702.1 | 1447.6 | 1729.0 | 1775.6 | 1820.8 |
| 60° | 102.6 | 105.9 | 127.8 | 172.1 | 255.8 | 397.8 | 622.9 | 1429.7 | 1795.4 | 1854.7 | 1909.0 |
| 62.5° | 79.9 | 82.6 | 100.1 | 128.8 | 199.4 | 348.8 | 566.0 | 1371.5 | 1868.9 | 1946.5 | 2020.6 |
| 65° | 70.1 | 72.5 | 88.4 | 103.1 | 148.9 | 299.0 | 534.9 | 1310.0 | 1967.6 | 2081.9 | 2185.0 |
| 67.5° | 63.4 | 66.2 | 80.0 | 90.2 | 121.3 | 260.9 | 526.7 | 1271.2 | 2016.0 | 2164.8 | 2303.8 |
| 69° | 60.3 | 63.2 | 75.5 | 84.2 | 112.7 | 247.4 | 512.7 | 1210.1 | 1950.7 | 2109.7 | 2261.6 |
| 70° | 58.4 | 60.7 | 72.2 | 81.1 | 110.0 | 238.0 | 489.3 | 1134.0 | 1861.1 | 2021.6 | 2180.4 |
| 72.5° | 54.2 | 55.4 | 65.5 | 74.0 | 102.0 | 192.4 | 376.4 | 842.1 | 1472.6 | 1629.0 | 1783.2 |
| 75° | 48.0 | 49.3 | 58.6 | 67.2 | 79.4 | 119.4 | 238.2 | 520.9 | 991.5 | 1108.1 | 1251.2 |
| 77.5° | 41.3 | 42.5 | 50.8 | 64.0 | 61.8 | 74.6 | 142.3 | 289.9 | 562.9 | 630.6 | 723.5 |
| 80° | 33.2 | 34.6 | 41.9 | 63.6 | 51.0 | 58.0 | 102.4 | 202.7 | 276.4 | 296.6 | 318.9 |
| 82.5° | 24.3 | 25.5 | 32.7 | 51.4 | 39.1 | 43.7 | 78.0 | 171.8 | 197.4 | 206.6 | 211.1 |
| 85° | 12.5 | 12.7 | 20.8 | 31.3 | 24.7 | 22.7 | 43.9 | 117.6 | 134.0 | 136.3 | 139.7 |
| 87.5° | 2.0 | 2.0 | 4.7 | 5.4 | 6.0 | 3.7 | 5.6 | 20.1 | 23.3 | 23.1 | 25.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 821.1 | 821.1 | 821.1 | 821.1 | 821.1 | 821.1 | 821.1 | 821.1 | 821.1 | 821.1 | 821.1 |
| 2.5° | 823.8 | 823.6 | 823.9 | 824.0 | 824.2 | 823.4 | 823.2 | 823.0 | 823.0 | 823.4 | 823.0 |
| 5° | 833.9 | 833.8 | 834.0 | 834.3 | 834.2 | 833.7 | 833.6 | 833.7 | 833.0 | 832.7 | 833.3 |
| 7.5° | 851.0 | 850.8 | 850.3 | 851.1 | 851.5 | 851.6 | 852.1 | 851.7 | 851.5 | 851.3 | 851.7 |
| 10° | 874.4 | 874.2 | 874.4 | 875.2 | 875.7 | 875.8 | 876.4 | 875.8 | 875.5 | 876.1 | 876.1 |
| 12.5° | 900.7 | 900.2 | 901.3 | 901.8 | 902.5 | 903.8 | 903.2 | 904.1 | 903.4 | 904.6 | 904.6 |
| 15° | 925.4 | 925.8 | 926.7 | 927.2 | 927.4 | 928.5 | 928.7 | 929.3 | 928.4 | 928.7 | 930.5 |
| 17.5° | 940.8 | 940.6 | 941.2 | 941.7 | 942.2 | 942.9 | 943.9 | 944.6 | 944.1 | 944.1 | 945.0 |
| 20° | 946.0 | 945.3 | 945.5 | 945.9 | 945.9 | 946.4 | 947.3 | 947.4 | 947.4 | 947.5 | 948.5 |
| 22.5° | 943.4 | 942.2 | 941.0 | 941.1 | 941.2 | 941.1 | 941.6 | 942.0 | 942.4 | 942.9 | 944.0 |
| 25° | 939.9 | 937.2 | 935.0 | 934.8 | 934.1 | 934.1 | 934.4 | 934.5 | 935.0 | 935.6 | 936.6 |
| 27.5° | 940.3 | 936.7 | 933.0 | 931.8 | 930.6 | 929.8 | 929.4 | 928.9 | 929.3 | 930.1 | 931.0 |
| 30° | 948.2 | 942.6 | 937.5 | 935.9 | 934.1 | 932.5 | 931.2 | 929.5 | 928.7 | 929.3 | 929.9 |
| 32.5° | 962.3 | 956.8 | 951.8 | 949.2 | 946.6 | 943.8 | 941.2 | 939.6 | 937.5 | 936.8 | 936.6 |
| 35° | 992.3 | 987.9 | 983.4 | 980.5 | 976.2 | 974.0 | 970.8 | 966.3 | 963.0 | 962.7 | 960.9 |
| 37.5° | 1042.8 | 1040.7 | 1037.4 | 1034.3 | 1032.9 | 1027.1 | 1023.4 | 1021.0 | 1017.3 | 1019.5 | 1015.6 |
| 40° | 1115.3 | 1118.7 | 1121.8 | 1120.0 | 1120.6 | 1119.0 | 1116.8 | 1119.0 | 1116.4 | 1115.7 | 1116.4 |
| 42.5° | 1208.2 | 1220.5 | 1229.0 | 1231.8 | 1238.7 | 1241.4 | 1246.5 | 1254.3 | 1252.7 | 1261.6 | 1263.2 |
| 45° | 1315.9 | 1333.5 | 1350.7 | 1363.5 | 1377.3 | 1393.1 | 1408.9 | 1421.5 | 1431.3 | 1430.9 | 1441.6 |
| 47.5° | 1425.7 | 1451.7 | 1474.5 | 1493.8 | 1518.9 | 1542.1 | 1567.5 | 1593.3 | 1612.0 | 1619.1 | 1621.4 |
| 50° | 1537.0 | 1567.1 | 1598.2 | 1626.5 | 1660.4 | 1697.4 | 1737.6 | 1777.8 | 1797.9 | 1814.3 | 1825.3 |
| 52.5° | 1653.6 | 1688.0 | 1721.2 | 1761.1 | 1802.9 | 1851.8 | 1902.1 | 1959.3 | 1989.6 | 2020.5 | 2036.8 |
| 55° | 1764.5 | 1802.9 | 1837.2 | 1890.5 | 1941.8 | 2000.3 | 2065.8 | 2138.1 | 2190.7 | 2227.0 | 2259.0 |
| 57.5° | 1865.2 | 1906.2 | 1948.3 | 2008.4 | 2073.7 | 2142.2 | 2225.2 | 2312.9 | 2370.2 | 2433.4 | 2490.2 |
| 60° | 1963.5 | 2015.1 | 2063.5 | 2142.2 | 2219.9 | 2304.9 | 2408.3 | 2519.5 | 2608.0 | 2693.8 | 2759.3 |
| 62.5° | 2094.1 | 2160.2 | 2220.4 | 2319.4 | 2420.9 | 2525.9 | 2648.9 | 2780.3 | 2908.9 | 3025.3 | 3113.5 |
| 65° | 2286.8 | 2383.9 | 2474.1 | 2599.5 | 2727.6 | 2865.8 | 3012.7 | 3180.6 | 3334.9 | 3489.0 | 3615.2 |
| 67.5° | 2433.1 | 2556.1 | 2671.8 | 2823.4 | 2974.3 | 3134.4 | 3311.9 | 3510.3 | 3701.2 | 3875.0 | 4028.8 |
| 69° | 2404.4 | 2534.9 | 2660.1 | 2814.9 | 2971.7 | 3135.3 | 3314.3 | 3525.2 | 3723.7 | 3912.4 | 4077.4 |
| 70° | 2317.0 | 2452.9 | 2582.7 | 2736.3 | 2895.2 | 3059.2 | 3246.6 | 3453.7 | 3656.9 | 3857.9 | 4024.6 |
| 72.5° | 1920.3 | 2056.7 | 2182.7 | 2339.8 | 2499.7 | 2672.1 | 2849.5 | 3051.4 | 3268.3 | 3483.1 | 3629.2 |
| 75° | 1376.8 | 1497.3 | 1619.5 | 1752.4 | 1908.5 | 2050.4 | 2212.9 | 2405.3 | 2587.7 | 2754.3 | 2866.2 |
| 77.5° | 813.8 | 886.0 | 973.0 | 1035.5 | 1126.1 | 1204.4 | 1287.0 | 1393.9 | 1450.1 | 1557.6 | 1585.1 |
| 80° | 331.5 | 329.6 | 342.5 | 329.7 | 332.6 | 322.0 | 310.9 | 308.8 | 291.4 | 313.3 | 296.9 |
| 82.5° | 210.6 | 195.9 | 180.3 | 158.6 | 139.4 | 119.3 | 100.9 | 85.5 | 82.7 | 83.3 | 82.2 |
| 85° | 138.8 | 132.4 | 118.3 | 99.5 | 81.1 | 65.1 | 52.1 | 41.1 | 40.7 | 40.0 | 39.7 |
| 87.5° | 25.1 | 23.3 | 19.2 | 16.4 | 13.8 | 10.2 | 7.3 | 5.4 | 5.1 | 5.1 | 6.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 84° | 85° | 86° | 87° | 88° | 89° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 821.1 | 821.1 | 821.1 | 821.1 | 821.1 | 821.1 | 821.1 |
| 2.5° | 823.0 | 823.0 | 822.7 | 823.3 | 823.0 | 822.3 | 821.6 |
| 5° | 833.7 | 832.7 | 833.5 | 834.2 | 832.9 | 833.2 | 832.7 |
| 7.5° | 851.7 | 851.5 | 851.7 | 851.0 | 850.6 | 851.3 | 852.0 |
| 10° | 877.0 | 876.5 | 876.3 | 877.0 | 876.5 | 876.1 | 876.3 |
| 12.5° | 905.3 | 905.3 | 905.0 | 905.3 | 905.0 | 904.4 | 903.8 |
| 15° | 930.2 | 930.8 | 930.8 | 930.2 | 930.1 | 929.9 | 930.1 |
| 17.5° | 945.7 | 945.5 | 945.5 | 945.5 | 945.3 | 945.5 | 946.0 |
| 20° | 949.7 | 949.0 | 949.0 | 949.4 | 949.0 | 949.4 | 949.7 |
| 22.5° | 944.3 | 944.3 | 944.3 | 944.6 | 945.0 | 945.0 | 945.5 |
| 25° | 937.5 | 937.5 | 937.5 | 938.1 | 938.1 | 938.2 | 938.4 |
| 27.5° | 932.1 | 932.1 | 932.2 | 932.7 | 932.7 | 932.8 | 933.3 |
| 30° | 930.5 | 930.5 | 930.2 | 930.4 | 930.8 | 930.8 | 931.0 |
| 32.5° | 936.7 | 936.2 | 935.9 | 935.4 | 935.0 | 934.9 | 934.7 |
| 35° | 959.1 | 957.2 | 957.4 | 956.0 | 956.5 | 955.3 | 954.3 |
| 37.5° | 1013.0 | 1011.3 | 1009.1 | 1006.3 | 1004.7 | 1006.7 | 1006.7 |
| 40° | 1114.1 | 1115.2 | 1110.1 | 1108.7 | 1105.7 | 1107.7 | 1110.5 |
| 42.5° | 1264.2 | 1265.5 | 1266.4 | 1258.8 | 1258.5 | 1256.9 | 1252.2 |
| 45° | 1442.1 | 1438.8 | 1440.2 | 1436.7 | 1435.3 | 1430.1 | 1436.5 |
| 47.5° | 1630.3 | 1632.4 | 1624.0 | 1621.1 | 1626.1 | 1617.7 | 1618.8 |
| 50° | 1831.6 | 1832.0 | 1825.7 | 1824.4 | 1828.8 | 1812.8 | 1820.4 |
| 52.5° | 2048.6 | 2049.5 | 2054.3 | 2048.6 | 2050.9 | 2047.1 | 2054.6 |
| 55° | 2279.3 | 2296.8 | 2298.4 | 2304.8 | 2305.3 | 2312.9 | 2305.2 |
| 57.5° | 2521.7 | 2541.6 | 2560.3 | 2585.9 | 2591.5 | 2588.4 | 2593.3 |
| 60° | 2813.8 | 2865.9 | 2894.0 | 2934.0 | 2940.3 | 2957.6 | 2942.6 |
| 62.5° | 3196.3 | 3277.4 | 3338.6 | 3369.5 | 3388.2 | 3424.4 | 3412.5 |
| 65° | 3731.2 | 3827.7 | 3920.8 | 3965.2 | 4014.4 | 4065.7 | 4075.1 |
| 67.5° | 4169.3 | 4276.7 | 4373.4 | 4450.4 | 4510.3 | 4548.1 | 4551.1 |
| 69° | 4224.0 | 4338.1 | 4440.0 | 4525.6 | 4583.8 | 4622.6 | 4633.0 |
| 70° | 4174.7 | 4291.4 | 4399.4 | 4481.0 | 4545.9 | 4585.5 | 4599.3 |
| 72.5° | 3782.6 | 3921.5 | 4008.0 | 4091.2 | 4182.9 | 4194.8 | 4232.7 |
| 75° | 2994.3 | 3118.9 | 3203.7 | 3225.7 | 3273.7 | 3334.0 | 3312.5 |
| 77.5° | 1561.8 | 1616.0 | 1634.1 | 1595.6 | 1593.9 | 1629.0 | 1559.0 |
| 80° | 297.4 | 297.9 | 292.9 | 291.1 | 294.6 | 291.2 | 286.1 |
| 82.5° | 83.9 | 82.8 | 82.0 | 83.9 | 83.7 | 83.5 | 85.1 |
| 85° | 38.8 | 37.6 | 35.7 | 35.7 | 36.7 | 35.3 | 36.0 |
| 87.5° | 5.4 | 4.5 | 4.5 | 4.5 | 4.2 | 4.2 | 4.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)