

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: P228227

Luminaire Tested: **ISS-AF-450-LED-E1-SL3-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29762)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-450-LED-E1-SL3-7060
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III W/SPILL CONTROL
Light Source: (16) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2787 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

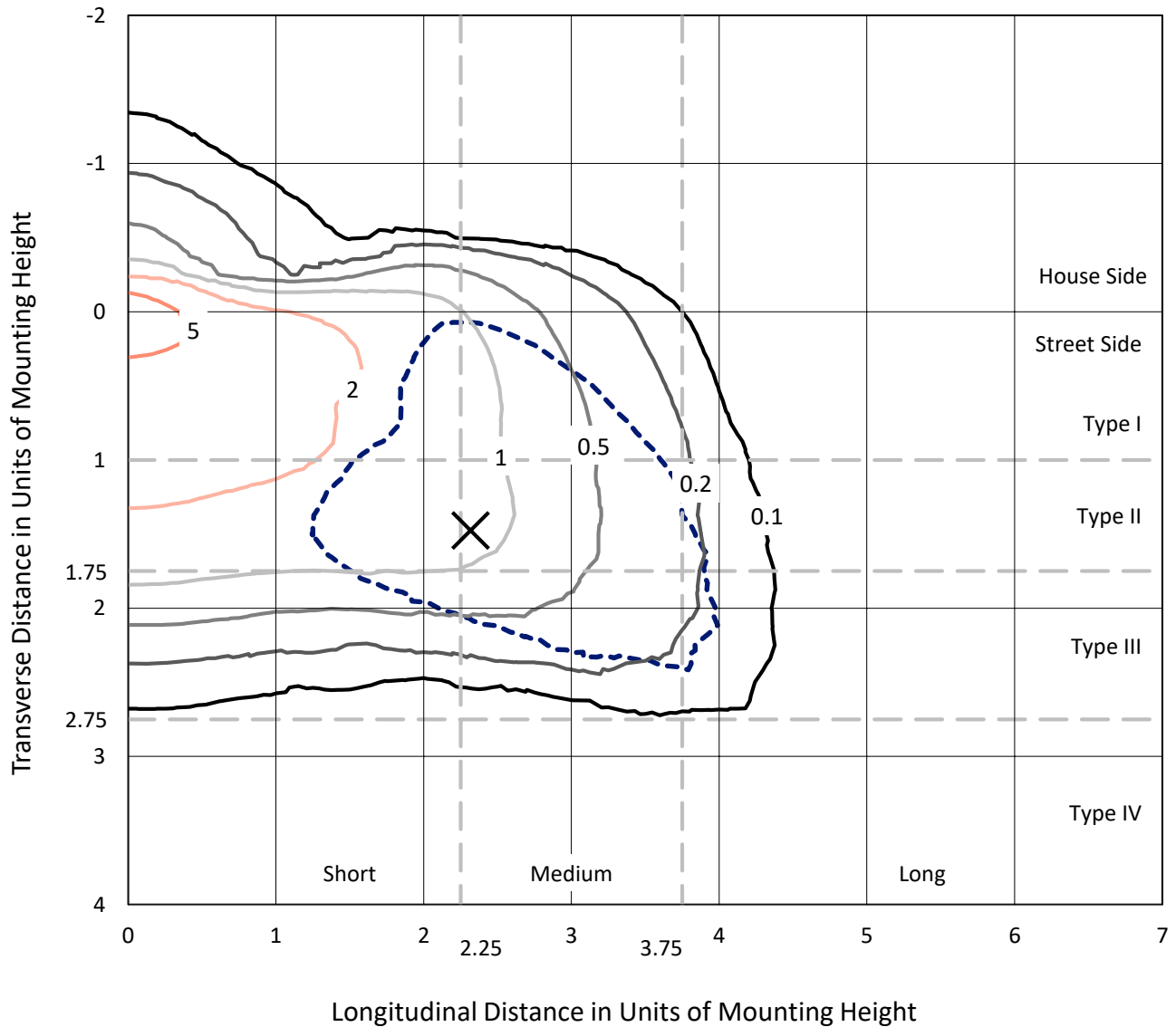
Input Watts (W): 25.31
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

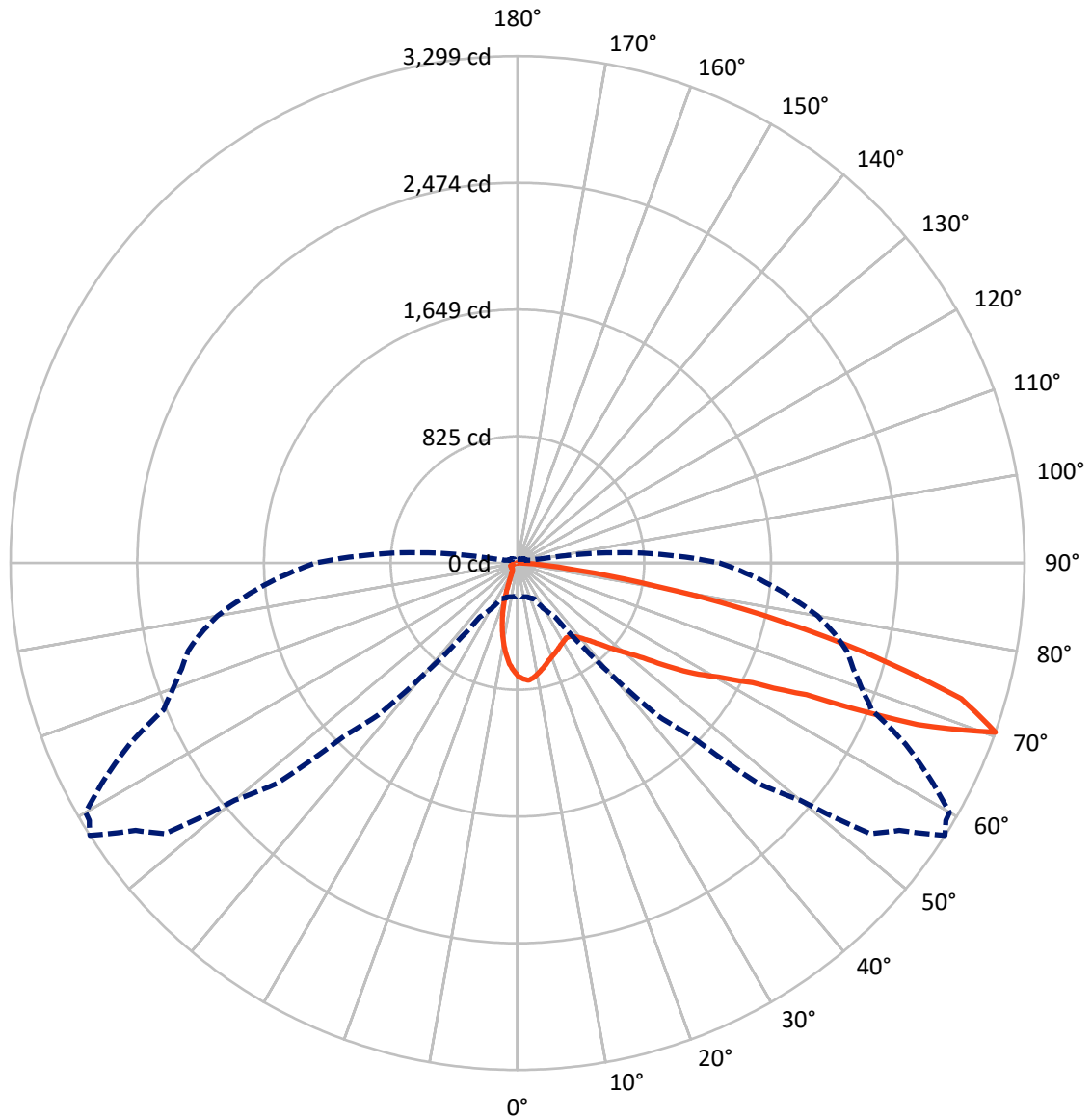
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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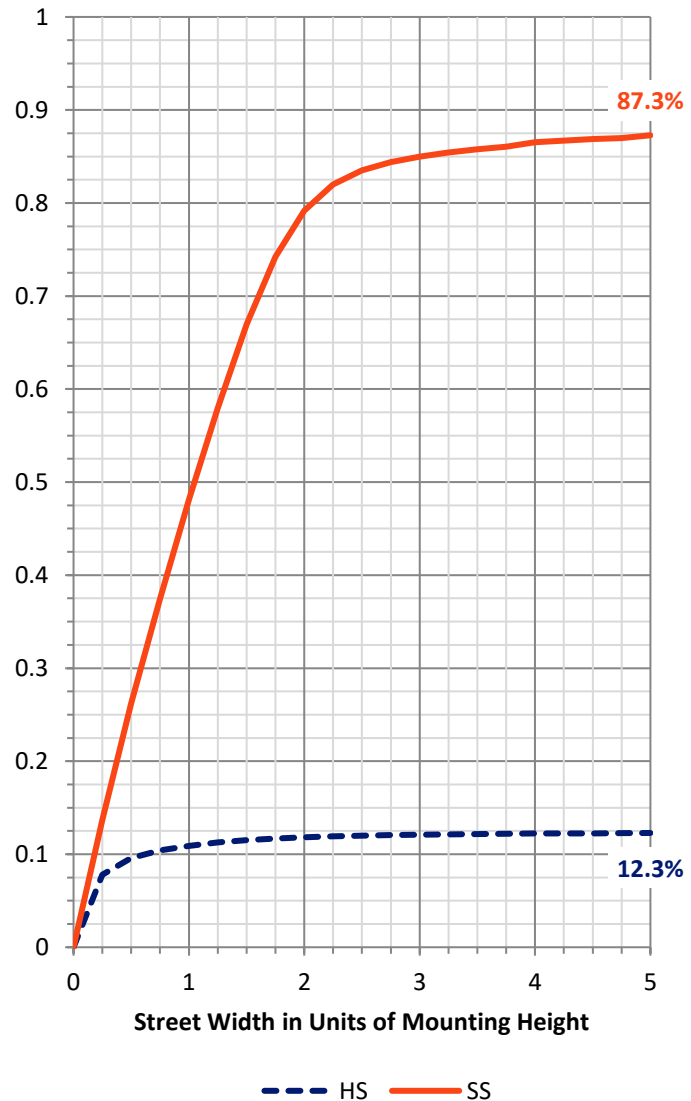
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 344.9 | 0.0 | 344.9 |
| | % Fixture | 12.4 | 0.0 | 12.4 |
| Street Side | Lumens | 2442.1 | 0.0 | 2442.1 |
| | % Fixture | 87.6 | 0.0 | 87.6 |
| Total | Lumens | 2787.0 | 0.0 | 2787.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 63.7 | 2.3 |
| 10°-20° | 138.3 | 5.0 |
| 20°-30° | 173.8 | 6.2 |
| 30°-40° | 227.1 | 8.1 |
| 40°-50° | 340.7 | 12.2 |
| 50°-60° | 538.7 | 19.3 |
| 60°-70° | 776.5 | 27.9 |
| 70°-80° | 480.6 | 17.2 |
| 80°-90° | 47.7 | 1.7 |
| 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° | 2787.0 | 100.0 |
| 0°-180° | 2787.0 | 100.0 |



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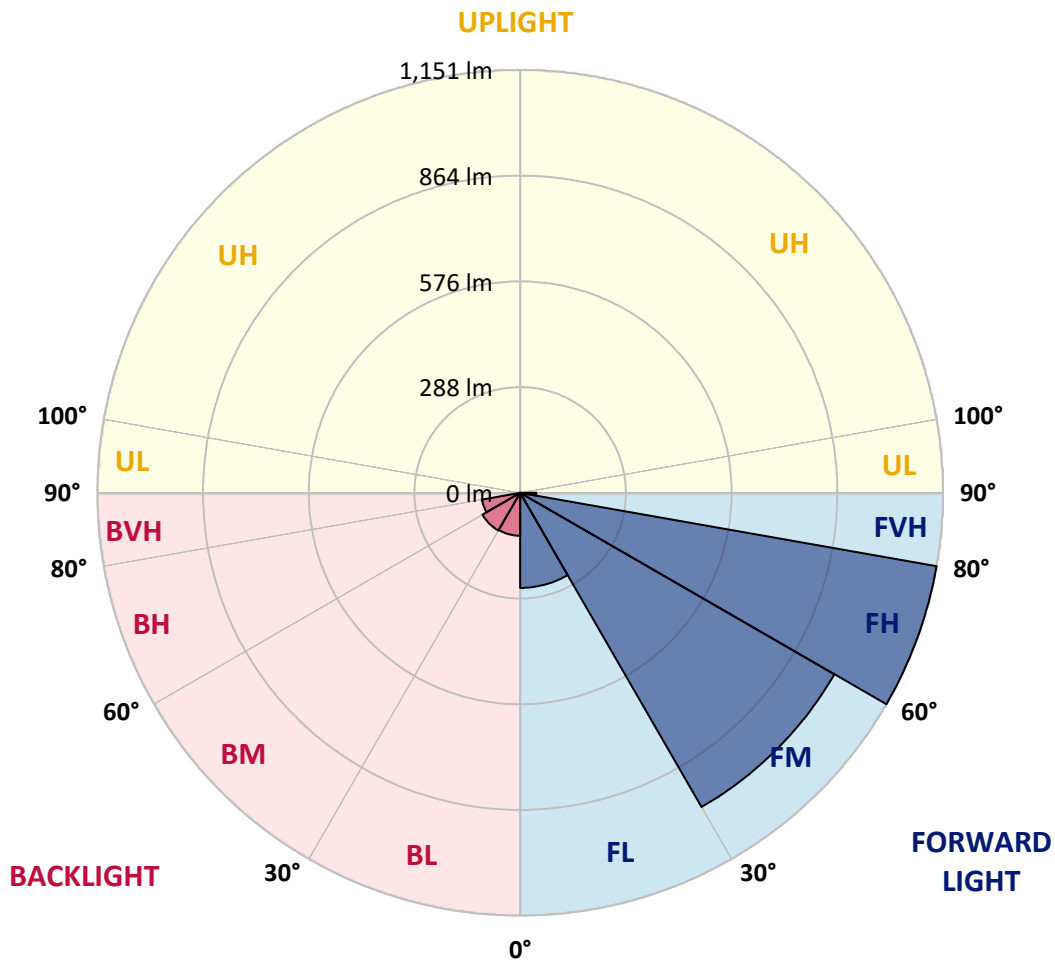
CATALOG NUMBER: ISS-AF-450-LED-E1-SL3-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 258.8 | 9.3 | | | |
| FM | (30°-60°) | 987.9 | 35.4 | | | |
| FH | (60°-80°) | 1151.5 | 41.3 | | | G1/1800 |
| FVH | (80°-90°) | 43.9 | 1.6 | | | G1/100 |
| BL | (0°-30°) | 116.9 | 4.2 | B1/500 | | |
| BM | (30°-60°) | 118.6 | 4.3 | B0/220 | | |
| BH | (60°-80°) | 105.6 | 3.8 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 3.8 | 0.1 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 37.5° | 40° | 42.5° | 45° | 47.5° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 737.7 | 737.7 | 737.7 | 737.7 | 737.7 | 737.7 | 737.7 | 737.7 | 737.7 | 737.7 | 737.7 |
| 2.5° | 774.3 | 773.3 | 771.3 | 767.3 | 765.4 | 767.3 | 765.4 | 762.4 | 758.4 | 761.4 | 759.4 |
| 5° | 772.3 | 774.3 | 770.3 | 767.3 | 772.3 | 774.3 | 770.3 | 770.3 | 766.3 | 770.3 | 768.3 |
| 7.5° | 733.7 | 734.7 | 735.7 | 734.7 | 747.6 | 747.6 | 745.6 | 747.6 | 748.5 | 750.5 | 751.5 |
| 10° | 685.3 | 686.3 | 688.2 | 691.2 | 707.0 | 709.0 | 710.0 | 712.0 | 714.9 | 716.9 | 722.8 |
| 12.5° | 636.8 | 638.8 | 642.7 | 652.6 | 669.4 | 671.4 | 674.4 | 677.4 | 682.3 | 685.3 | 696.1 |
| 15° | 596.3 | 597.3 | 601.2 | 612.1 | 636.8 | 641.8 | 643.7 | 647.7 | 657.6 | 657.6 | 669.4 |
| 17.5° | 558.7 | 560.7 | 563.6 | 576.5 | 601.2 | 609.1 | 615.1 | 617.0 | 629.9 | 632.9 | 646.7 |
| 20° | 530.0 | 531.0 | 532.0 | 543.9 | 566.6 | 578.5 | 583.4 | 591.3 | 601.2 | 609.1 | 621.0 |
| 22.5° | 514.2 | 515.2 | 513.2 | 518.1 | 537.9 | 552.8 | 558.7 | 566.6 | 570.6 | 584.4 | 591.3 |
| 25° | 515.2 | 516.2 | 511.2 | 508.3 | 518.1 | 534.0 | 538.9 | 546.8 | 544.8 | 564.6 | 564.6 |
| 27.5° | 525.1 | 527.0 | 522.1 | 513.2 | 514.2 | 527.0 | 530.0 | 533.0 | 527.0 | 546.8 | 542.9 |
| 30° | 544.8 | 546.8 | 540.9 | 534.0 | 523.1 | 531.0 | 531.0 | 531.0 | 520.1 | 536.9 | 530.0 |
| 32.5° | 565.6 | 567.6 | 565.6 | 560.7 | 546.8 | 548.8 | 544.8 | 542.9 | 528.0 | 541.9 | 531.0 |
| 35° | 596.3 | 597.3 | 598.2 | 598.2 | 578.5 | 582.4 | 571.5 | 565.6 | 551.8 | 562.6 | 547.8 |
| 37.5° | 632.9 | 632.9 | 639.8 | 642.7 | 621.0 | 621.0 | 609.1 | 601.2 | 588.4 | 592.3 | 577.5 |
| 40° | 665.5 | 668.5 | 684.3 | 693.2 | 673.4 | 665.5 | 655.6 | 648.7 | 638.8 | 638.8 | 624.0 |
| 42.5° | 703.1 | 709.0 | 727.8 | 744.6 | 733.7 | 721.9 | 712.0 | 705.0 | 700.1 | 699.1 | 683.3 |
| 45° | 749.5 | 756.5 | 777.2 | 793.0 | 796.0 | 787.1 | 779.2 | 772.3 | 768.3 | 766.3 | 752.5 |
| 47.5° | 801.9 | 808.9 | 827.7 | 846.4 | 860.3 | 858.3 | 849.4 | 842.5 | 845.5 | 843.5 | 834.6 |
| 50° | 860.3 | 864.2 | 876.1 | 897.9 | 929.5 | 936.4 | 934.4 | 929.5 | 935.4 | 935.4 | 927.5 |
| 52.5° | 906.8 | 909.7 | 918.6 | 944.3 | 996.7 | 1012.6 | 1025.4 | 1035.3 | 1045.2 | 1051.1 | 1046.2 |
| 55° | 949.3 | 949.3 | 950.3 | 982.9 | 1061.0 | 1086.7 | 1115.4 | 1136.2 | 1149.0 | 1172.8 | 1182.6 |
| 57.5° | 1018.5 | 1013.6 | 1012.6 | 1047.2 | 1138.1 | 1164.8 | 1206.4 | 1236.0 | 1253.8 | 1302.3 | 1301.3 |
| 60° | 998.7 | 1000.7 | 1036.3 | 1138.1 | 1296.4 | 1320.1 | 1357.7 | 1389.3 | 1422.9 | 1458.5 | 1461.5 |
| 62.5° | 861.3 | 866.2 | 919.6 | 1071.9 | 1397.2 | 1520.8 | 1636.5 | 1724.5 | 1774.0 | 1805.6 | 1762.1 |
| 65° | 603.2 | 615.1 | 687.2 | 873.1 | 1286.5 | 1477.3 | 1660.3 | 1864.0 | 2020.2 | 2262.5 | 2332.7 |
| 67.5° | 300.6 | 309.5 | 321.4 | 457.8 | 961.1 | 1229.1 | 1481.3 | 1759.1 | 1966.8 | 2322.8 | 2521.5 |
| 70° | 215.6 | 219.5 | 228.4 | 257.1 | 430.1 | 643.7 | 940.4 | 1337.9 | 1582.1 | 2119.1 | 2399.9 |
| 72.5° | 167.1 | 171.1 | 182.9 | 223.5 | 284.8 | 314.4 | 373.8 | 611.1 | 908.7 | 1463.5 | 1843.2 |
| 75° | 129.5 | 135.5 | 152.3 | 201.7 | 273.9 | 290.7 | 293.7 | 315.4 | 359.9 | 649.7 | 1033.3 |
| 77.5° | 91.0 | 92.0 | 108.8 | 174.0 | 266.0 | 298.6 | 293.7 | 293.7 | 299.6 | 331.3 | 442.0 |
| 80° | 60.3 | 61.3 | 72.2 | 120.6 | 233.4 | 271.9 | 300.6 | 286.8 | 287.8 | 292.7 | 300.6 |
| 82.5° | 31.6 | 33.6 | 42.5 | 73.2 | 136.5 | 183.9 | 250.2 | 261.1 | 257.1 | 262.0 | 260.1 |
| 85° | 8.9 | 8.9 | 14.8 | 27.7 | 67.2 | 71.2 | 110.7 | 151.3 | 154.3 | 175.0 | 186.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 4.0 | 8.9 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 52.5° | 55° | 57.5° | 59° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 737.7 | 737.7 | 737.7 | 737.7 | 737.7 | 737.7 | 737.7 | 737.7 | 737.7 | 737.7 | 737.7 |
| 2.5° | 761.4 | 757.4 | 756.5 | 754.5 | 755.5 | 752.5 | 751.5 | 747.6 | 747.6 | 745.6 | 743.6 |
| 5° | 766.3 | 762.4 | 766.3 | 759.4 | 760.4 | 757.4 | 752.5 | 752.5 | 748.5 | 745.6 | 739.6 |
| 7.5° | 752.5 | 752.5 | 753.5 | 749.5 | 750.5 | 749.5 | 743.6 | 742.6 | 736.7 | 736.7 | 729.8 |
| 10° | 726.8 | 726.8 | 730.7 | 727.8 | 728.8 | 727.8 | 724.8 | 723.8 | 721.9 | 721.9 | 711.0 |
| 12.5° | 697.1 | 703.1 | 709.0 | 706.0 | 706.0 | 708.0 | 708.0 | 709.0 | 708.0 | 707.0 | 698.1 |
| 15° | 672.4 | 681.3 | 687.2 | 686.3 | 687.2 | 692.2 | 694.2 | 695.2 | 698.1 | 697.1 | 689.2 |
| 17.5° | 649.7 | 659.6 | 664.5 | 668.5 | 671.4 | 675.4 | 681.3 | 684.3 | 688.2 | 687.2 | 679.3 |
| 20° | 628.9 | 637.8 | 646.7 | 651.6 | 652.6 | 660.5 | 667.5 | 676.4 | 678.3 | 680.3 | 670.4 |
| 22.5° | 607.1 | 615.1 | 632.9 | 629.9 | 636.8 | 651.6 | 655.6 | 668.5 | 668.5 | 675.4 | 661.5 |
| 25° | 588.4 | 589.3 | 617.0 | 612.1 | 618.0 | 644.7 | 647.7 | 670.4 | 664.5 | 674.4 | 658.6 |
| 27.5° | 569.6 | 568.6 | 602.2 | 596.3 | 603.2 | 639.8 | 641.8 | 673.4 | 667.5 | 679.3 | 658.6 |
| 30° | 555.7 | 552.8 | 591.3 | 579.5 | 589.3 | 634.8 | 635.8 | 676.4 | 671.4 | 687.2 | 665.5 |
| 32.5° | 552.8 | 547.8 | 581.4 | 572.5 | 582.4 | 629.9 | 635.8 | 687.2 | 681.3 | 701.1 | 673.4 |
| 35° | 565.6 | 557.7 | 586.4 | 578.5 | 586.4 | 631.9 | 640.8 | 704.1 | 697.1 | 719.9 | 692.2 |
| 37.5° | 589.3 | 583.4 | 607.1 | 599.2 | 605.2 | 645.7 | 653.6 | 725.8 | 724.8 | 752.5 | 720.9 |
| 40° | 630.9 | 624.9 | 643.7 | 632.9 | 637.8 | 675.4 | 679.3 | 756.5 | 759.4 | 793.0 | 761.4 |
| 42.5° | 687.2 | 677.4 | 692.2 | 679.3 | 686.3 | 719.9 | 715.9 | 794.0 | 802.9 | 849.4 | 812.8 |
| 45° | 759.4 | 746.6 | 755.5 | 741.6 | 746.6 | 775.2 | 764.4 | 844.5 | 853.4 | 910.7 | 878.1 |
| 47.5° | 838.5 | 822.7 | 833.6 | 815.8 | 818.8 | 849.4 | 829.6 | 904.8 | 918.6 | 990.8 | 959.2 |
| 50° | 933.5 | 912.7 | 916.7 | 899.8 | 901.8 | 932.5 | 910.7 | 978.9 | 995.8 | 1075.9 | 1048.2 |
| 52.5° | 1055.1 | 1025.4 | 1025.4 | 1002.7 | 1003.7 | 1034.3 | 1007.6 | 1067.0 | 1085.7 | 1166.8 | 1148.0 |
| 55° | 1215.3 | 1191.5 | 1186.6 | 1162.9 | 1155.0 | 1160.9 | 1123.3 | 1164.8 | 1185.6 | 1261.8 | 1246.9 |
| 57.5° | 1342.8 | 1339.9 | 1354.7 | 1321.1 | 1313.2 | 1315.2 | 1267.7 | 1270.7 | 1294.4 | 1353.7 | 1358.7 |
| 60° | 1498.1 | 1503.0 | 1505.0 | 1477.3 | 1474.4 | 1446.7 | 1398.2 | 1390.3 | 1420.0 | 1460.5 | 1476.3 |
| 62.5° | 1745.3 | 1740.4 | 1715.6 | 1694.9 | 1676.1 | 1601.9 | 1575.2 | 1531.7 | 1573.2 | 1596.0 | 1628.6 |
| 65° | 2276.3 | 2224.9 | 2066.7 | 2080.5 | 2031.1 | 1869.9 | 1847.1 | 1759.1 | 1824.4 | 1825.4 | 1886.7 |
| 67.5° | 2802.4 | 2903.2 | 2806.3 | 2808.3 | 2696.6 | 2404.8 | 2334.6 | 2159.6 | 2196.2 | 2153.7 | 2185.3 |
| 70° | 2892.3 | 3033.7 | 3298.8 | 3251.3 | 3245.4 | 3020.9 | 2784.6 | 2492.9 | 2383.1 | 2292.1 | 2218.9 |
| 72.5° | 2488.9 | 2630.3 | 3018.9 | 2911.1 | 2951.7 | 3019.9 | 2773.7 | 2555.2 | 2309.9 | 2194.2 | 2036.0 |
| 75° | 1751.2 | 1954.9 | 2349.5 | 2293.1 | 2322.8 | 2435.5 | 2223.9 | 2198.2 | 1914.4 | 1837.3 | 1594.0 |
| 77.5° | 938.4 | 1190.6 | 1632.6 | 1563.3 | 1576.2 | 1640.5 | 1420.0 | 1374.5 | 1100.6 | 1024.4 | 748.5 |
| 80° | 422.2 | 585.4 | 916.7 | 839.5 | 816.8 | 780.2 | 574.5 | 452.9 | 276.9 | 183.9 | 127.6 |
| 82.5° | 279.8 | 290.7 | 406.4 | 352.0 | 329.3 | 271.9 | 176.0 | 103.8 | 82.1 | 69.2 | 66.3 |
| 85° | 187.9 | 172.1 | 171.1 | 151.3 | 140.4 | 110.7 | 82.1 | 51.4 | 42.5 | 35.6 | 32.6 |
| 87.5° | 10.9 | 6.9 | 9.9 | 10.9 | 7.9 | 6.9 | 4.9 | 0.0 | 1.0 | 0.0 | 1.0 |
| 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):

| | 77.5° | 80° | 85° | 90° | 95° | 100° | 102.5° | 105° | 107.5° | 110° | 112.5° |
|-------|--------|--------|--------|--------|--------|-------|--------|-------|--------|-------|--------|
| 0° | 737.7 | 737.7 | 737.7 | 737.7 | 737.7 | 737.7 | 737.7 | 737.7 | 737.7 | 737.7 | 737.7 |
| 2.5° | 738.7 | 738.7 | 737.7 | 730.7 | 726.8 | 724.8 | 717.9 | 716.9 | 713.9 | 713.0 | 713.0 |
| 5° | 737.7 | 733.7 | 728.8 | 718.9 | 709.0 | 700.1 | 697.1 | 690.2 | 685.3 | 679.3 | 679.3 |
| 7.5° | 723.8 | 719.9 | 709.0 | 694.2 | 681.3 | 668.5 | 661.5 | 651.6 | 643.7 | 635.8 | 633.8 |
| 10° | 708.0 | 702.1 | 687.2 | 667.5 | 650.7 | 627.9 | 619.0 | 606.2 | 597.3 | 585.4 | 573.5 |
| 12.5° | 691.2 | 687.2 | 669.4 | 646.7 | 621.0 | 592.3 | 578.5 | 560.7 | 548.8 | 535.0 | 517.2 |
| 15° | 684.3 | 676.4 | 653.6 | 624.9 | 593.3 | 558.7 | 538.9 | 520.1 | 502.3 | 486.5 | 462.8 |
| 17.5° | 675.4 | 665.5 | 639.8 | 606.2 | 566.6 | 525.1 | 499.4 | 478.6 | 454.9 | 438.1 | 411.4 |
| 20° | 665.5 | 650.7 | 623.0 | 582.4 | 537.9 | 488.5 | 455.9 | 435.1 | 403.4 | 386.6 | 355.0 |
| 22.5° | 657.6 | 638.8 | 605.2 | 559.7 | 506.3 | 450.9 | 412.3 | 388.6 | 353.0 | 333.2 | 293.7 |
| 25° | 655.6 | 632.9 | 592.3 | 540.9 | 479.6 | 414.3 | 367.8 | 344.1 | 299.6 | 276.9 | 230.4 |
| 27.5° | 656.6 | 629.9 | 584.4 | 525.1 | 455.9 | 381.7 | 326.3 | 298.6 | 242.3 | 218.5 | 165.1 |
| 30° | 657.6 | 630.9 | 576.5 | 511.2 | 434.1 | 348.1 | 282.8 | 250.2 | 182.9 | 162.2 | 114.7 |
| 32.5° | 667.5 | 634.8 | 574.5 | 500.4 | 414.3 | 314.4 | 233.4 | 203.7 | 129.5 | 117.7 | 85.0 |
| 35° | 679.3 | 647.7 | 578.5 | 498.4 | 399.5 | 280.8 | 182.9 | 152.3 | 93.0 | 90.0 | 69.2 |
| 37.5° | 704.1 | 667.5 | 594.3 | 503.3 | 390.6 | 246.2 | 136.5 | 116.7 | 73.2 | 75.2 | 60.3 |
| 40° | 741.6 | 701.1 | 620.0 | 518.1 | 389.6 | 211.6 | 100.9 | 91.0 | 63.3 | 65.3 | 55.4 |
| 42.5° | 792.1 | 747.6 | 659.6 | 549.8 | 394.5 | 179.0 | 81.1 | 78.1 | 58.3 | 60.3 | 53.4 |
| 45° | 858.3 | 812.8 | 714.9 | 590.3 | 408.4 | 152.3 | 71.2 | 71.2 | 56.4 | 58.3 | 52.4 |
| 47.5° | 942.4 | 891.9 | 783.2 | 644.7 | 430.1 | 137.4 | 67.2 | 68.2 | 55.4 | 58.3 | 52.4 |
| 50° | 1037.3 | 981.9 | 870.2 | 714.9 | 463.8 | 133.5 | 68.2 | 68.2 | 56.4 | 58.3 | 52.4 |
| 52.5° | 1136.2 | 1084.8 | 964.1 | 795.0 | 510.2 | 142.4 | 70.2 | 69.2 | 56.4 | 58.3 | 51.4 |
| 55° | 1237.0 | 1190.6 | 1067.9 | 889.0 | 574.5 | 174.0 | 75.2 | 72.2 | 56.4 | 58.3 | 52.4 |
| 57.5° | 1337.9 | 1305.3 | 1176.7 | 989.8 | 654.6 | 231.4 | 94.9 | 84.1 | 62.3 | 63.3 | 53.4 |
| 60° | 1451.6 | 1427.9 | 1299.3 | 1122.3 | 768.3 | 320.4 | 139.4 | 105.8 | 74.2 | 70.2 | 57.4 |
| 62.5° | 1598.9 | 1593.0 | 1491.2 | 1313.2 | 951.3 | 448.9 | 197.8 | 128.5 | 80.1 | 73.2 | 61.3 |
| 65° | 1859.0 | 1874.8 | 1777.9 | 1536.7 | 1072.9 | 451.9 | 192.8 | 112.7 | 75.2 | 69.2 | 60.3 |
| 67.5° | 2120.1 | 2073.6 | 1824.4 | 1503.0 | 968.1 | 300.6 | 122.6 | 88.0 | 66.3 | 64.3 | 56.4 |
| 70° | 2110.2 | 1983.6 | 1654.3 | 1314.2 | 764.4 | 163.2 | 89.0 | 73.2 | 59.3 | 59.3 | 53.4 |
| 72.5° | 1892.6 | 1704.8 | 1352.7 | 1040.3 | 510.2 | 103.8 | 75.2 | 64.3 | 54.4 | 53.4 | 49.4 |
| 75° | 1424.9 | 1203.4 | 869.2 | 599.2 | 227.4 | 67.2 | 57.4 | 52.4 | 47.5 | 47.5 | 43.5 |
| 77.5° | 670.4 | 377.7 | 209.6 | 139.4 | 76.1 | 45.5 | 39.6 | 39.6 | 38.6 | 39.6 | 35.6 |
| 80° | 91.0 | 82.1 | 70.2 | 61.3 | 46.5 | 31.6 | 28.7 | 29.7 | 28.7 | 29.7 | 26.7 |
| 82.5° | 55.4 | 49.4 | 40.5 | 38.6 | 28.7 | 21.8 | 20.8 | 21.8 | 19.8 | 20.8 | 15.8 |
| 85° | 26.7 | 23.7 | 18.8 | 17.8 | 14.8 | 12.9 | 10.9 | 12.9 | 9.9 | 10.9 | 6.9 |
| 87.5° | 0.0 | 2.0 | 1.0 | 2.0 | 2.0 | 2.0 | 0.0 | 2.0 | 0.0 | 2.0 | 0.0 |
| 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):

| | 115° | 117.5° | 120° | 122.5° | 125° | 127.5° | 130° | 135° | 145° | 155° | 165° |
|-------|-------|--------|-------|--------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 737.7 | 737.7 | 737.7 | 737.7 | 737.7 | 737.7 | 737.7 | 737.7 | 737.7 | 737.7 | 737.7 |
| 2.5° | 708.0 | 705.0 | 704.1 | 700.1 | 699.1 | 695.2 | 694.2 | 690.2 | 683.3 | 680.3 | 675.4 |
| 5° | 670.4 | 665.5 | 661.5 | 659.6 | 651.6 | 647.7 | 641.8 | 633.8 | 619.0 | 612.1 | 600.2 |
| 7.5° | 618.0 | 617.0 | 605.2 | 601.2 | 591.3 | 584.4 | 575.5 | 562.6 | 540.9 | 528.0 | 509.3 |
| 10° | 560.7 | 556.7 | 542.9 | 535.0 | 522.1 | 512.2 | 500.4 | 481.6 | 447.9 | 421.2 | 392.6 |
| 12.5° | 507.3 | 495.4 | 479.6 | 467.7 | 451.9 | 438.1 | 424.2 | 395.5 | 342.1 | 298.6 | 259.1 |
| 15° | 451.9 | 434.1 | 417.3 | 397.5 | 380.7 | 358.9 | 343.1 | 305.6 | 235.3 | 181.9 | 157.2 |
| 17.5° | 395.5 | 370.8 | 352.0 | 325.3 | 306.5 | 276.9 | 260.1 | 214.6 | 154.3 | 130.5 | 122.6 |
| 20° | 336.2 | 303.6 | 282.8 | 250.2 | 231.4 | 193.8 | 181.0 | 148.3 | 118.7 | 109.8 | 107.8 |
| 22.5° | 272.9 | 233.4 | 210.6 | 175.0 | 162.2 | 139.4 | 129.5 | 113.7 | 99.9 | 95.9 | 97.9 |
| 25° | 206.7 | 164.1 | 149.3 | 123.6 | 118.7 | 106.8 | 102.8 | 94.9 | 88.0 | 88.0 | 91.0 |
| 27.5° | 147.3 | 114.7 | 110.7 | 94.9 | 93.9 | 88.0 | 85.0 | 81.1 | 79.1 | 81.1 | 85.0 |
| 30° | 107.8 | 87.0 | 87.0 | 78.1 | 78.1 | 74.2 | 73.2 | 71.2 | 71.2 | 75.2 | 79.1 |
| 32.5° | 85.0 | 71.2 | 73.2 | 66.3 | 67.2 | 64.3 | 65.3 | 64.3 | 65.3 | 68.2 | 71.2 |
| 35° | 71.2 | 61.3 | 64.3 | 58.3 | 60.3 | 57.4 | 59.3 | 59.3 | 61.3 | 62.3 | 63.3 |
| 37.5° | 63.3 | 56.4 | 58.3 | 54.4 | 56.4 | 53.4 | 56.4 | 56.4 | 57.4 | 57.4 | 57.4 |
| 40° | 58.3 | 52.4 | 55.4 | 51.4 | 54.4 | 51.4 | 54.4 | 54.4 | 53.4 | 52.4 | 53.4 |
| 42.5° | 55.4 | 51.4 | 54.4 | 50.4 | 53.4 | 50.4 | 52.4 | 51.4 | 49.4 | 49.4 | 49.4 |
| 45° | 54.4 | 50.4 | 52.4 | 49.4 | 51.4 | 48.5 | 50.4 | 49.4 | 46.5 | 45.5 | 47.5 |
| 47.5° | 54.4 | 49.4 | 52.4 | 48.5 | 50.4 | 47.5 | 49.4 | 46.5 | 43.5 | 43.5 | 46.5 |
| 50° | 54.4 | 49.4 | 52.4 | 48.5 | 50.4 | 46.5 | 47.5 | 44.5 | 40.5 | 41.5 | 45.5 |
| 52.5° | 55.4 | 51.4 | 53.4 | 49.4 | 50.4 | 44.5 | 46.5 | 42.5 | 39.6 | 40.5 | 43.5 |
| 55° | 56.4 | 51.4 | 53.4 | 47.5 | 48.5 | 44.5 | 44.5 | 42.5 | 39.6 | 39.6 | 42.5 |
| 57.5° | 56.4 | 50.4 | 51.4 | 46.5 | 47.5 | 42.5 | 43.5 | 41.5 | 38.6 | 37.6 | 39.6 |
| 60° | 58.3 | 52.4 | 52.4 | 45.5 | 46.5 | 41.5 | 42.5 | 40.5 | 37.6 | 35.6 | 36.6 |
| 62.5° | 60.3 | 53.4 | 54.4 | 47.5 | 47.5 | 42.5 | 43.5 | 39.6 | 35.6 | 33.6 | 34.6 |
| 65° | 60.3 | 53.4 | 54.4 | 48.5 | 48.5 | 43.5 | 43.5 | 39.6 | 33.6 | 31.6 | 31.6 |
| 67.5° | 57.4 | 52.4 | 53.4 | 48.5 | 48.5 | 43.5 | 43.5 | 38.6 | 32.6 | 29.7 | 28.7 |
| 70° | 55.4 | 50.4 | 51.4 | 45.5 | 46.5 | 41.5 | 41.5 | 36.6 | 30.7 | 27.7 | 25.7 |
| 72.5° | 50.4 | 46.5 | 46.5 | 42.5 | 41.5 | 36.6 | 36.6 | 33.6 | 28.7 | 24.7 | 22.7 |
| 75° | 43.5 | 39.6 | 38.6 | 34.6 | 34.6 | 31.6 | 30.7 | 27.7 | 23.7 | 20.8 | 19.8 |
| 77.5° | 35.6 | 30.7 | 30.7 | 25.7 | 25.7 | 22.7 | 23.7 | 20.8 | 17.8 | 16.8 | 15.8 |
| 80° | 25.7 | 20.8 | 20.8 | 16.8 | 16.8 | 13.8 | 14.8 | 13.8 | 12.9 | 12.9 | 11.9 |
| 82.5° | 15.8 | 10.9 | 11.9 | 8.9 | 10.9 | 7.9 | 8.9 | 7.9 | 7.9 | 6.9 | 6.9 |
| 85° | 7.9 | 4.0 | 5.9 | 3.0 | 4.9 | 1.0 | 3.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 87.5° | 1.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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):

| | 175° | 180° |
|-------|-------|-------|
| 0° | 737.7 | 737.7 |
| 2.5° | 670.4 | 673.4 |
| 5° | 596.3 | 597.3 |
| 7.5° | 506.3 | 504.3 |
| 10° | 386.6 | 381.7 |
| 12.5° | 249.2 | 242.3 |
| 15° | 150.3 | 148.3 |
| 17.5° | 120.6 | 120.6 |
| 20° | 107.8 | 107.8 |
| 22.5° | 99.9 | 99.9 |
| 25° | 93.9 | 94.9 |
| 27.5° | 89.0 | 89.0 |
| 30° | 83.1 | 83.1 |
| 32.5° | 73.2 | 73.2 |
| 35° | 65.3 | 64.3 |
| 37.5° | 58.3 | 59.3 |
| 40° | 53.4 | 54.4 |
| 42.5° | 51.4 | 51.4 |
| 45° | 49.4 | 49.4 |
| 47.5° | 49.4 | 49.4 |
| 50° | 48.5 | 49.4 |
| 52.5° | 47.5 | 47.5 |
| 55° | 44.5 | 45.5 |
| 57.5° | 41.5 | 42.5 |
| 60° | 38.6 | 38.6 |
| 62.5° | 34.6 | 34.6 |
| 65° | 31.6 | 31.6 |
| 67.5° | 27.7 | 27.7 |
| 70° | 24.7 | 24.7 |
| 72.5° | 21.8 | 21.8 |
| 75° | 18.8 | 18.8 |
| 77.5° | 15.8 | 14.8 |
| 80° | 11.9 | 11.9 |
| 82.5° | 6.9 | 6.9 |
| 85° | 2.0 | 2.0 |
| 87.5° | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 |

(END OF REPORT)