

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: iO LED

Report Number: P591970

Luminaire Tested: **GRZ-05L-935-10x10FR-X-UNV-STD-2F**

Issue Date: 2/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P591970
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2111-457-16)
Test Lab: INNOVATION CENTER
Issue Date: 2/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: iO LED
Catalog Number: GRZ-05L-935-10x10FR-X-UNV-STD-2F
Description: iO LED GRAZER WITH 10x10FR OPTIC
500 LUMENS PER FOOT, 2 FOOT FIXTURE
SUMULATED RESULTS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

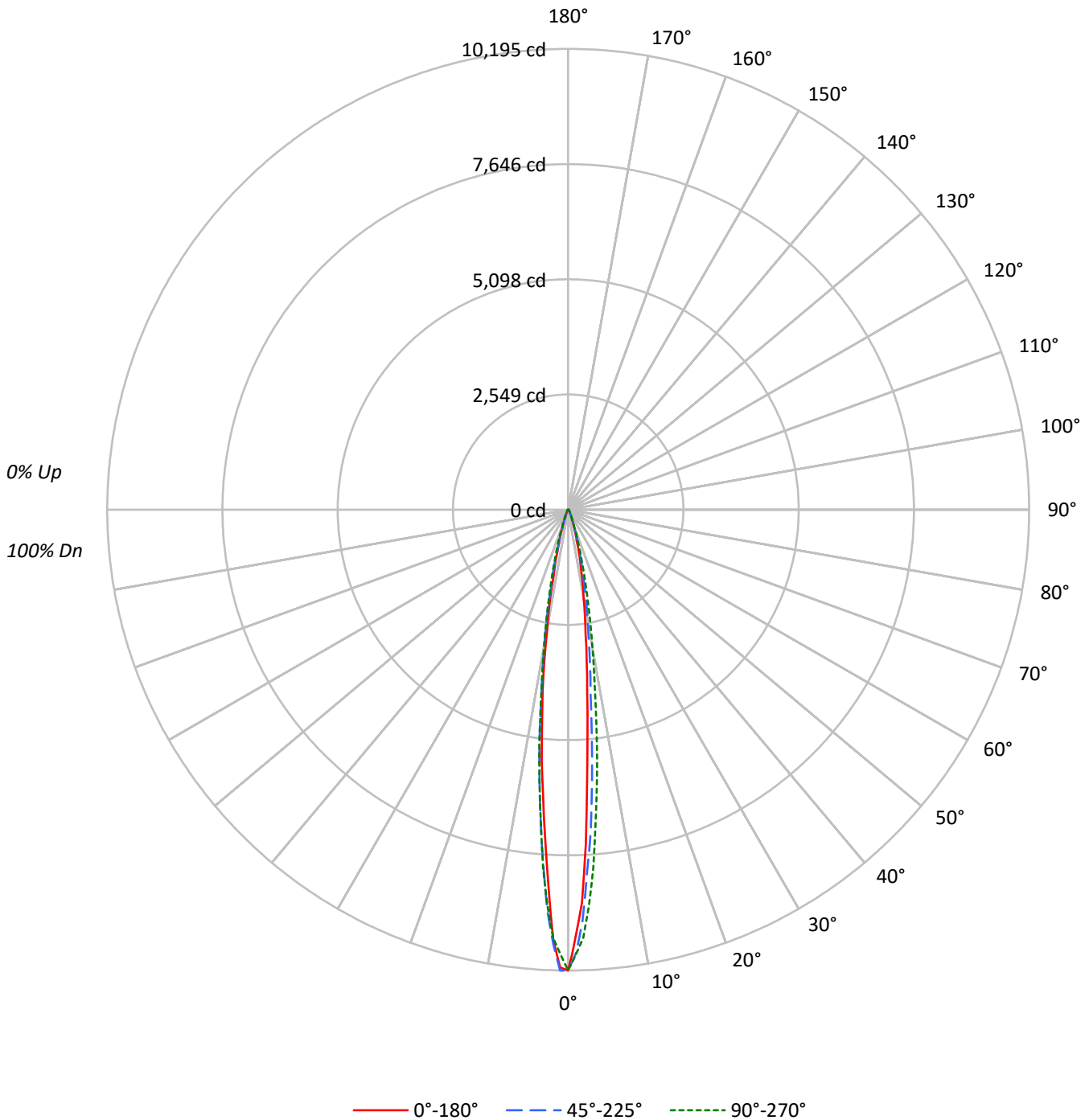
Lumens per Lamp: N/A
Luminaire Lumens: 941.0 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 0.19 / 0.25 / 0.25
Luminous Opening: Rectangular (W 2' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 9.6
Input Voltage (V): 120
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: 24 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P591970

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | | | | | | | |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 111 | 106 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 100 | 100 | 100 | 100 |
| 1 | 115 | 113 | 111 | 109 | 113 | 111 | 109 | 107 | 107 | 105 | 104 | 104 | 103 | 102 | 101 | 101 | 100 | 99 | 98 | 98 | 97 | 97 | 97 | 97 |
| 2 | 111 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 103 | 101 | 99 | 99 | 100 | 98 | 97 | 97 | 97 | 96 | 95 | 95 | 93 | 93 | 93 | 93 |
| 3 | 108 | 103 | 100 | 97 | 106 | 102 | 99 | 96 | 100 | 97 | 95 | 95 | 97 | 95 | 93 | 93 | 95 | 93 | 92 | 92 | 91 | 91 | 91 | 91 |
| 4 | 105 | 100 | 96 | 93 | 103 | 99 | 95 | 92 | 97 | 94 | 91 | 91 | 95 | 92 | 90 | 90 | 93 | 91 | 89 | 89 | 88 | 88 | 88 | 88 |
| 5 | 102 | 96 | 93 | 90 | 101 | 96 | 92 | 89 | 94 | 91 | 89 | 89 | 93 | 90 | 88 | 88 | 91 | 89 | 87 | 87 | 86 | 86 | 86 | 86 |
| 6 | 100 | 94 | 90 | 87 | 98 | 93 | 89 | 87 | 92 | 89 | 86 | 86 | 91 | 88 | 86 | 86 | 89 | 87 | 85 | 85 | 84 | 84 | 84 | 84 |
| 7 | 97 | 91 | 87 | 85 | 96 | 91 | 87 | 84 | 90 | 86 | 84 | 84 | 89 | 86 | 84 | 84 | 88 | 85 | 83 | 83 | 82 | 82 | 82 | 82 |
| 8 | 95 | 89 | 85 | 83 | 94 | 89 | 85 | 83 | 88 | 85 | 82 | 82 | 87 | 84 | 82 | 82 | 86 | 84 | 82 | 82 | 81 | 81 | 81 | 81 |
| 9 | 93 | 87 | 83 | 81 | 92 | 87 | 83 | 81 | 86 | 83 | 81 | 81 | 85 | 82 | 80 | 80 | 85 | 82 | 80 | 80 | 79 | 79 | 79 | 79 |
| 10 | 91 | 85 | 82 | 79 | 91 | 85 | 82 | 79 | 84 | 81 | 79 | 79 | 84 | 81 | 79 | 79 | 83 | 81 | 79 | 79 | 78 | 78 | 78 | 78 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 329094 | 329094 | 329094 |
| 5° | 158876 | 224895 | 205929 |
| 10° | 64183 | 100016 | 88060 |
| 15° | 25444 | 36794 | 27256 |
| 20° | 9938 | 12165 | 8010 |
| 25° | 4582 | 4824 | 3688 |
| 30° | 2703 | 2632 | 2163 |
| 35° | 1829 | 1829 | 1447 |
| 40° | 1387 | 1467 | 1142 |
| 45° | 1192 | 1279 | 973 |
| 50° | 1020 | 1165 | 824 |
| 55° | 923 | 1087 | 760 |
| 60° | 814 | 1059 | 749 |
| 65° | 741 | 1032 | 741 |
| 70° | 642 | 1001 | 642 |
| 75° | 487 | 848 | 599 |
| 80° | 353 | 725 | 539 |
| 85° | 371 | 371 | 371 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 491.2 | 52.2 |
| 10°-20° | 296.9 | 31.5 |
| 20°-30° | 66.3 | 7.0 |
| 30°-40° | 28.7 | 3.0 |
| 40°-50° | 20.6 | 2.2 |
| 50°-60° | 16.4 | 1.7 |
| 60°-70° | 12.2 | 1.3 |
| 70°-80° | 7.0 | 0.7 |
| 80°-90° | 1.8 | 0.2 |
| 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°-30° | 854.3 | 90.8 |
| 0°-40° | 883.0 | 93.8 |
| 0°-60° | 920.0 | 97.8 |
| 0°-90° | 941.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 941.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 10191 | 10191 | 10191 | 10191 | 10191 | |
| 5° | 4901 | 6048 | 6938 | 6970 | 6353 | 382 |
| 15° | 761 | 981 | 1101 | 906 | 815 | 234 |
| 25° | 129 | 146 | 135 | 106 | 104 | 66 |
| 35° | 46 | 46 | 46 | 41 | 37 | 30 |
| 45° | 26 | 28 | 28 | 25 | 21 | 20 |
| 55° | 16 | 20 | 19 | 17 | 14 | 14 |
| 65° | 10 | 14 | 14 | 12 | 10 | 9 |
| 75° | 4 | 8 | 7 | 7 | 5 | 4 |
| 85° | 1 | 2 | 1 | 2 | 1 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10191.3 | 10191.3 | 10191.3 | 10191.3 | 10191.3 | 10191.3 | 10191.3 | 10191.3 | 10191.3 | 10191.3 | 10191.3 |
| 1° | 9456.3 | 9753.2 | 9679.7 | 9749.4 | 9761.9 | 9809.3 | 9840.3 | 9861.6 | 9912.8 | 9894.4 | 9831.6 |
| 2° | 8699.1 | 8863.5 | 8853.8 | 8896.4 | 9139.1 | 9105.3 | 9192.3 | 9376.1 | 9347.1 | 9389.6 | 9478.6 |
| 3° | 7404.1 | 7764.9 | 7681.7 | 7674.0 | 7907.0 | 8007.6 | 8352.9 | 8434.1 | 8636.2 | 8772.6 | 8775.5 |
| 4° | 5981.5 | 6215.6 | 6270.7 | 6716.5 | 6691.4 | 7132.4 | 7338.4 | 7507.6 | 7665.3 | 8158.5 | 7943.8 |
| 5° | 4901.3 | 5074.4 | 5246.5 | 5466.1 | 5520.2 | 6048.3 | 6165.3 | 6409.0 | 6835.5 | 7020.2 | 6938.0 |
| 6° | 4012.5 | 4182.7 | 4181.8 | 4402.3 | 4604.4 | 4981.5 | 5112.1 | 5462.2 | 5809.4 | 6053.1 | 6063.7 |
| 7° | 3337.5 | 3435.2 | 3497.0 | 3639.2 | 3864.5 | 4064.7 | 4370.3 | 4600.5 | 4823.9 | 5078.3 | 5233.0 |
| 8° | 2775.6 | 2869.4 | 2904.2 | 3033.8 | 3167.3 | 3451.6 | 3757.2 | 3936.1 | 4170.1 | 4391.6 | 4347.1 |
| 9° | 2332.7 | 2478.7 | 2458.4 | 2534.8 | 2686.6 | 2879.1 | 3061.8 | 3326.8 | 3477.7 | 3696.3 | 3646.0 |
| 10° | 1957.4 | 2050.3 | 2110.2 | 2206.0 | 2262.1 | 2472.9 | 2584.1 | 2756.2 | 2945.8 | 2975.8 | 3050.2 |
| 12.5° | 1284.3 | 1305.6 | 1318.2 | 1365.5 | 1468.1 | 1570.6 | 1681.8 | 1772.7 | 1828.8 | 1840.4 | 1895.5 |
| 15° | 761.1 | 797.9 | 805.6 | 870.4 | 926.5 | 980.6 | 1051.2 | 1064.8 | 1094.8 | 1083.2 | 1100.6 |
| 17.5° | 468.1 | 471.9 | 501.0 | 501.9 | 562.9 | 590.9 | 640.2 | 651.8 | 635.4 | 626.7 | 626.7 |
| 20° | 289.2 | 291.1 | 298.8 | 319.1 | 330.7 | 361.7 | 386.8 | 389.7 | 381.0 | 362.7 | 354.0 |
| 22.5° | 187.6 | 193.4 | 187.6 | 195.4 | 207.0 | 224.4 | 236.0 | 237.9 | 226.3 | 219.5 | 218.6 |
| 25° | 128.6 | 129.6 | 134.4 | 129.6 | 135.4 | 146.0 | 149.9 | 152.8 | 143.1 | 140.2 | 135.4 |
| 27.5° | 94.8 | 94.8 | 94.8 | 94.8 | 96.7 | 96.7 | 98.6 | 99.6 | 96.7 | 94.8 | 95.7 |
| 30° | 72.5 | 71.6 | 72.5 | 72.5 | 70.6 | 72.5 | 73.5 | 73.5 | 71.6 | 71.6 | 70.6 |
| 32.5° | 56.1 | 57.1 | 58.0 | 57.1 | 56.1 | 57.1 | 58.0 | 57.1 | 57.1 | 58.0 | 56.1 |
| 35° | 46.4 | 46.4 | 47.4 | 46.4 | 46.4 | 46.4 | 47.4 | 47.4 | 47.4 | 47.4 | 46.4 |
| 37.5° | 37.7 | 38.7 | 39.7 | 39.7 | 39.7 | 39.7 | 40.6 | 40.6 | 41.6 | 39.7 | 38.7 |
| 40° | 32.9 | 32.9 | 33.8 | 33.8 | 34.8 | 33.8 | 34.8 | 35.8 | 35.8 | 34.8 | 34.8 |
| 42.5° | 29.0 | 29.0 | 30.0 | 30.0 | 30.0 | 30.9 | 31.9 | 31.9 | 31.9 | 31.9 | 30.9 |
| 45° | 26.1 | 25.1 | 26.1 | 27.1 | 28.0 | 28.0 | 29.0 | 30.0 | 29.0 | 29.0 | 28.0 |
| 47.5° | 23.2 | 23.2 | 23.2 | 24.2 | 25.1 | 26.1 | 26.1 | 27.1 | 27.1 | 26.1 | 25.1 |
| 50° | 20.3 | 20.3 | 21.3 | 22.2 | 23.2 | 24.2 | 24.2 | 25.1 | 25.1 | 24.2 | 23.2 |
| 52.5° | 17.4 | 17.4 | 18.4 | 20.3 | 21.3 | 22.2 | 22.2 | 23.2 | 23.2 | 22.2 | 21.3 |
| 55° | 16.4 | 15.5 | 16.4 | 17.4 | 19.3 | 20.3 | 21.3 | 21.3 | 21.3 | 20.3 | 19.3 |
| 57.5° | 13.5 | 13.5 | 14.5 | 15.5 | 17.4 | 19.3 | 19.3 | 20.3 | 19.3 | 18.4 | 18.4 |
| 60° | 12.6 | 12.6 | 13.5 | 14.5 | 16.4 | 18.4 | 18.4 | 18.4 | 17.4 | 16.4 | 16.4 |
| 62.5° | 10.6 | 10.6 | 11.6 | 12.6 | 14.5 | 16.4 | 17.4 | 17.4 | 16.4 | 15.5 | 14.5 |
| 65° | 9.7 | 9.7 | 9.7 | 11.6 | 13.5 | 14.5 | 15.5 | 15.5 | 14.5 | 13.5 | 13.5 |
| 67.5° | 7.7 | 7.7 | 8.7 | 9.7 | 11.6 | 12.6 | 13.5 | 14.5 | 13.5 | 12.6 | 11.6 |
| 70° | 6.8 | 6.8 | 6.8 | 8.7 | 10.6 | 11.6 | 12.6 | 12.6 | 11.6 | 10.6 | 10.6 |
| 72.5° | 4.8 | 4.8 | 5.8 | 6.8 | 8.7 | 9.7 | 10.6 | 10.6 | 9.7 | 8.7 | 8.7 |
| 75° | 3.9 | 3.9 | 4.8 | 5.8 | 6.8 | 7.7 | 8.7 | 8.7 | 8.7 | 7.7 | 6.8 |
| 77.5° | 2.9 | 2.9 | 3.9 | 4.8 | 5.8 | 6.8 | 6.8 | 6.8 | 6.8 | 5.8 | 5.8 |
| 80° | 1.9 | 1.9 | 2.9 | 2.9 | 3.9 | 4.8 | 4.8 | 4.8 | 4.8 | 3.9 | 3.9 |
| 82.5° | 1.9 | 1.0 | 1.9 | 1.9 | 2.9 | 2.9 | 3.9 | 3.9 | 2.9 | 2.9 | 2.9 |
| 85° | 1.0 | 1.0 | 1.0 | 1.0 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10191.3 | 10191.3 | 10191.3 | 10191.3 | 10191.3 | 10191.3 | 10191.3 | 10191.3 | 10191.3 | 10191.3 |
| 1° | 9986.3 | 10132.3 | 10035.6 | 10143.9 | 10195.2 | 10195.2 | 10212.6 | 10139.1 | 10090.8 | 10126.5 |
| 2° | 9517.3 | 9644.9 | 9682.6 | 9661.4 | 9596.6 | 9606.2 | 9483.4 | 9470.8 | 9309.3 | 9496.0 |
| 3° | 8842.2 | 8983.4 | 8925.4 | 8850.9 | 8863.5 | 8725.2 | 8527.9 | 8435.1 | 8378.0 | 8351.9 |
| 4° | 8031.8 | 8122.7 | 8107.2 | 8055.0 | 7891.6 | 7730.1 | 7551.1 | 7611.1 | 7246.5 | 7294.9 |
| 5° | 7150.8 | 7252.3 | 7200.1 | 7027.9 | 6969.9 | 6795.8 | 6705.9 | 6520.2 | 6323.9 | 6352.9 |
| 6° | 6151.7 | 6117.9 | 6217.5 | 6096.6 | 6068.6 | 5762.0 | 5713.6 | 5744.6 | 5607.3 | 5594.7 |
| 7° | 5135.3 | 5371.3 | 5305.5 | 5219.5 | 5186.6 | 5003.8 | 4974.8 | 4787.2 | 4798.8 | 4727.2 |
| 8° | 4469.0 | 4492.2 | 4553.1 | 4436.1 | 4329.7 | 4307.5 | 4195.3 | 4085.0 | 4109.2 | 4058.9 |
| 9° | 3715.6 | 3788.1 | 3738.8 | 3750.4 | 3612.1 | 3469.0 | 3415.8 | 3444.8 | 3362.6 | 3374.2 |
| 10° | 3010.6 | 3127.6 | 3096.7 | 3070.6 | 3043.5 | 2895.5 | 2870.4 | 2804.6 | 2761.1 | 2685.6 |
| 12.5° | 1895.5 | 1852.0 | 1873.3 | 1789.1 | 1756.3 | 1641.2 | 1618.9 | 1590.9 | 1497.1 | 1497.1 |
| 15° | 1153.8 | 1061.9 | 1094.8 | 988.4 | 906.2 | 882.0 | 821.1 | 822.0 | 819.1 | 815.3 |
| 17.5° | 607.3 | 607.3 | 593.8 | 509.7 | 484.5 | 441.0 | 435.2 | 441.0 | 426.5 | 429.4 |
| 20° | 356.9 | 344.3 | 324.0 | 284.3 | 266.9 | 248.5 | 244.7 | 241.8 | 241.8 | 233.1 |
| 22.5° | 219.5 | 208.9 | 197.3 | 173.1 | 159.6 | 153.8 | 148.0 | 150.9 | 150.9 | 151.8 |
| 25° | 140.2 | 131.5 | 126.7 | 112.2 | 106.4 | 105.4 | 102.5 | 98.6 | 99.6 | 103.5 |
| 27.5° | 93.8 | 89.9 | 86.1 | 80.3 | 76.4 | 74.5 | 74.5 | 75.4 | 73.5 | 71.6 |
| 30° | 70.6 | 65.8 | 63.8 | 61.9 | 59.0 | 59.0 | 59.0 | 58.0 | 57.1 | 58.0 |
| 32.5° | 56.1 | 53.2 | 51.3 | 49.3 | 48.4 | 47.4 | 48.4 | 47.4 | 46.4 | 45.5 |
| 35° | 46.4 | 43.5 | 42.6 | 41.6 | 40.6 | 39.7 | 39.7 | 39.7 | 37.7 | 36.7 |
| 37.5° | 38.7 | 37.7 | 37.7 | 35.8 | 34.8 | 33.8 | 33.8 | 33.8 | 31.9 | 31.9 |
| 40° | 34.8 | 33.8 | 32.9 | 31.9 | 30.9 | 30.0 | 29.0 | 29.0 | 27.1 | 27.1 |
| 42.5° | 30.9 | 30.0 | 30.0 | 29.0 | 28.0 | 26.1 | 26.1 | 25.1 | 24.2 | 24.2 |
| 45° | 28.0 | 27.1 | 27.1 | 26.1 | 25.1 | 24.2 | 23.2 | 22.2 | 21.3 | 21.3 |
| 47.5° | 26.1 | 25.1 | 25.1 | 24.2 | 22.2 | 21.3 | 20.3 | 19.3 | 19.3 | 19.3 |
| 50° | 23.2 | 23.2 | 23.2 | 22.2 | 21.3 | 20.3 | 18.4 | 17.4 | 16.4 | 16.4 |
| 52.5° | 21.3 | 21.3 | 20.3 | 20.3 | 19.3 | 18.4 | 16.4 | 15.5 | 15.5 | 15.5 |
| 55° | 20.3 | 19.3 | 19.3 | 18.4 | 17.4 | 17.4 | 15.5 | 14.5 | 13.5 | 13.5 |
| 57.5° | 18.4 | 17.4 | 17.4 | 16.4 | 16.4 | 15.5 | 13.5 | 13.5 | 12.6 | 12.6 |
| 60° | 16.4 | 15.5 | 15.5 | 14.5 | 14.5 | 13.5 | 12.6 | 11.6 | 11.6 | 11.6 |
| 62.5° | 14.5 | 13.5 | 14.5 | 13.5 | 13.5 | 12.6 | 11.6 | 10.6 | 10.6 | 10.6 |
| 65° | 13.5 | 12.6 | 12.6 | 12.6 | 11.6 | 11.6 | 10.6 | 9.7 | 9.7 | 9.7 |
| 67.5° | 11.6 | 10.6 | 11.6 | 10.6 | 10.6 | 9.7 | 9.7 | 8.7 | 8.7 | 7.7 |
| 70° | 9.7 | 9.7 | 9.7 | 9.7 | 9.7 | 8.7 | 7.7 | 7.7 | 6.8 | 6.8 |
| 72.5° | 8.7 | 8.7 | 8.7 | 8.7 | 7.7 | 7.7 | 6.8 | 6.8 | 5.8 | 5.8 |
| 75° | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 5.8 | 5.8 | 4.8 | 4.8 |
| 77.5° | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 4.8 | 4.8 | 3.9 | 3.9 | 3.9 |
| 80° | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 2.9 | 2.9 | 2.9 |
| 82.5° | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 85° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 87.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 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 |

(END OF REPORT)