

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: P592003

Luminaire Tested: **GRZ-10L-927-10x10FR-X-UNV-STD-4F**

Issue Date: 2/2/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P592003  
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-10L-927-10x10FR-X-UNV-STD-4F  
Description: iO LED GRAZER WITH 10x10FR OPTIC  
1000 LUMENS PER FOOT, 4 FOOT FIXTURE  
SUMULATED RESULTS  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

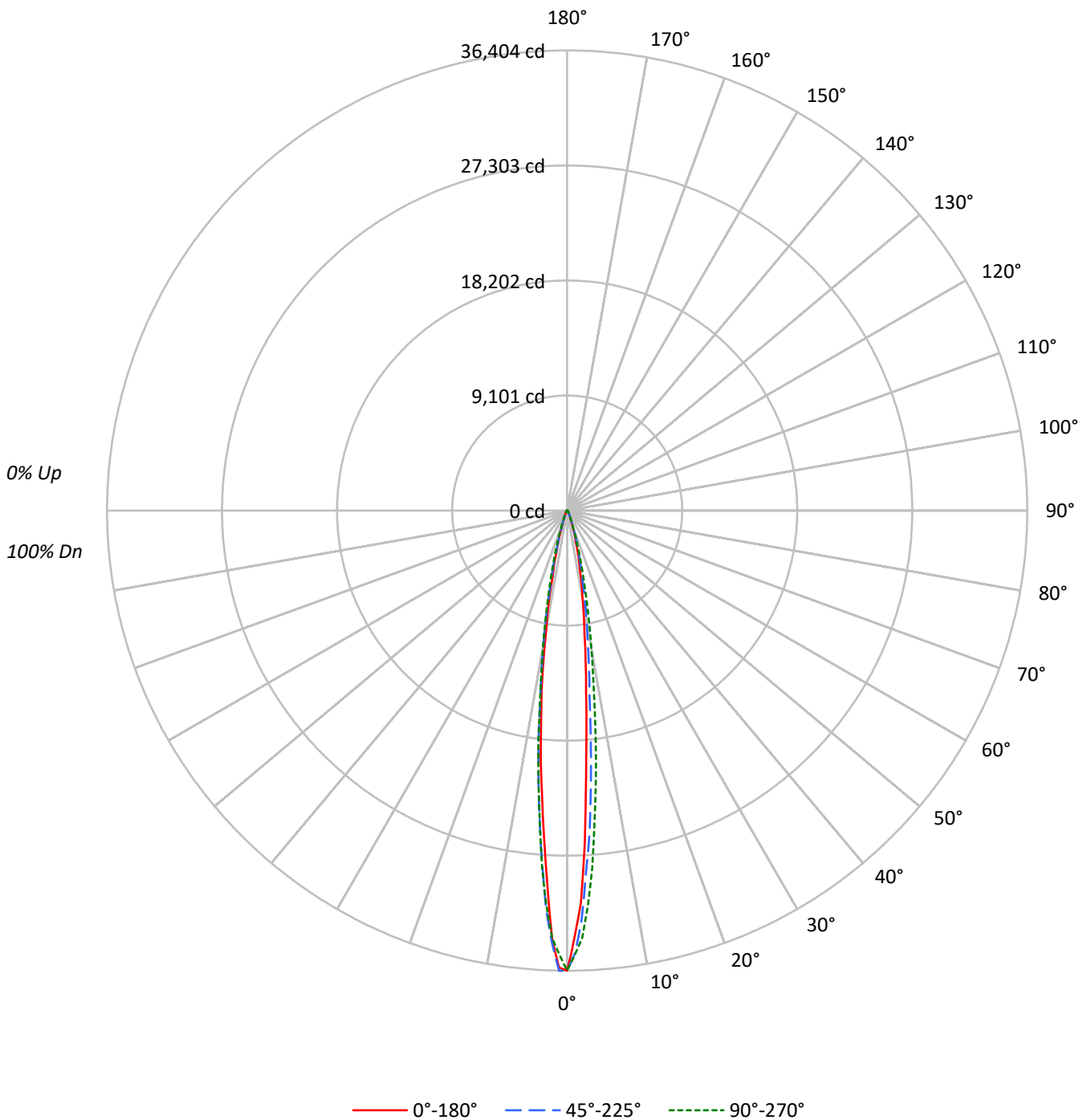
Lumens per Lamp: N/A  
Luminaire Lumens: 3360.0 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Spacing Criteria (0/90/45): 0.19 / 0.25 / 0.25  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 38  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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



TEST NUMBER: P592003  
CATALOG NUMBER: GRZ-10L-927-10x10FR-X-UNV-STD-4F

### Luminous Intensity Polar Plot





TEST NUMBER: P592003

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 587546 | 587546 | 587546 |
| 5°  | 283644 | 401514 | 367653 |
| 10° | 114589 | 178564 | 157221 |
| 15° | 45427  | 65687  | 48660  |
| 20° | 17740  | 21716  | 14299  |
| 25° | 8182   | 8612   | 6583   |
| 30° | 4829   | 4700   | 3863   |
| 35° | 3268   | 3268   | 2586   |
| 40° | 2474   | 2620   | 2038   |
| 45° | 2128   | 2286   | 1735   |
| 50° | 1821   | 2082   | 1474   |
| 55° | 1652   | 1945   | 1360   |
| 60° | 1450   | 1896   | 1337   |
| 65° | 1318   | 1845   | 1318   |
| 70° | 1142   | 1794   | 1142   |
| 75° | 861    | 1510   | 1079   |
| 80° | 642    | 1283   | 967    |
| 85° | 648    | 648    | 648    |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1753.9 | 52.2      |
| 10°-20°   | 1060.0 | 31.5      |
| 20°-30°   | 236.6  | 7.0       |
| 30°-40°   | 102.3  | 3.0       |
| 40°-50°   | 73.6   | 2.2       |
| 50°-60°   | 58.5   | 1.7       |
| 60°-70°   | 43.5   | 1.3       |
| 70°-80°   | 25.2   | 0.7       |
| 80°-90°   | 6.4    | 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°    | 3050.5 | 90.8      |
| 0°-40°    | 3152.8 | 93.8      |
| 0°-60°    | 3284.9 | 97.8      |
| 0°-90°    | 3360.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3360.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 45°   | 90°   | 135°  | 180°  | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 36390 | 36390 | 36390 | 36390 | 36390 |      |
| 5°  | 17501 | 21596 | 24773 | 24887 | 22684 | 1364 |
| 15° | 2718  | 3502  | 3930  | 3236  | 2911  | 835  |
| 25° | 459   | 521   | 483   | 380   | 370   | 235  |
| 35° | 166   | 166   | 166   | 145   | 131   | 107  |
| 45° | 93    | 100   | 100   | 90    | 76    | 72   |
| 55° | 59    | 72    | 69    | 62    | 48    | 51   |
| 65° | 34    | 52    | 48    | 41    | 34    | 33   |
| 75° | 14    | 28    | 24    | 24    | 17    | 15   |
| 85° | 4     | 7     | 4     | 7     | 4     | 4    |
| 90° | 0     | 0     | 0     | 0     | 0     |      |



TEST NUMBER: P592003

CATALOG NUMBER: GRZ-10L-927-10x10FR-X-UNV-STD-4F

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 36389.9 | 36389.9 | 36389.9 | 36389.9 | 36389.9 | 36389.9 | 36389.9 | 36389.9 | 36389.9 | 36389.9 | 36389.9 |
| 1°    | 33765.4 | 34825.6 | 34563.1 | 34811.8 | 34856.7 | 35025.9 | 35136.4 | 35212.3 | 35395.4 | 35329.7 | 35105.3 |
| 2°    | 31061.6 | 31648.6 | 31614.1 | 31766.0 | 32632.8 | 32511.9 | 32822.7 | 33478.8 | 33375.2 | 33527.2 | 33844.9 |
| 3°    | 26437.7 | 27725.8 | 27428.8 | 27401.2 | 28233.4 | 28592.5 | 29825.3 | 30115.4 | 30837.1 | 31324.0 | 31334.4 |
| 4°    | 21358.1 | 22193.8 | 22390.6 | 23982.5 | 23892.7 | 25467.4 | 26202.9 | 26807.2 | 27370.1 | 29131.2 | 28364.6 |
| 5°    | 17500.8 | 18119.0 | 18733.6 | 19517.5 | 19710.9 | 21596.3 | 22014.2 | 22884.4 | 24407.3 | 25066.8 | 24773.3 |
| 6°    | 14327.3 | 14935.1 | 14931.7 | 15719.0 | 16440.7 | 17787.5 | 18253.6 | 19503.7 | 20743.4 | 21613.6 | 21651.6 |
| 7°    | 11917.0 | 12265.8 | 12486.8 | 12994.4 | 13799.0 | 14513.8 | 15605.0 | 16426.9 | 17224.6 | 18132.8 | 18685.3 |
| 8°    | 9910.7  | 10245.7 | 10370.0 | 10832.7 | 11309.2 | 12324.5 | 13415.7 | 14054.5 | 14890.2 | 15681.0 | 15522.2 |
| 9°    | 8329.1  | 8850.6  | 8778.0  | 9050.9  | 9593.0  | 10280.2 | 10932.8 | 11879.0 | 12417.7 | 13198.2 | 13018.6 |
| 10°   | 6989.3  | 7320.8  | 7534.9  | 7876.8  | 8077.0  | 8829.8  | 9227.0  | 9841.6  | 10518.5 | 10625.5 | 10891.4 |
| 12.5° | 4585.9  | 4661.8  | 4706.7  | 4875.9  | 5242.0  | 5608.0  | 6005.1  | 6329.7  | 6530.0  | 6571.5  | 6768.3  |
| 15°   | 2717.7  | 2848.9  | 2876.5  | 3107.9  | 3308.2  | 3501.6  | 3753.6  | 3802.0  | 3909.0  | 3867.6  | 3929.7  |
| 17.5° | 1671.4  | 1685.2  | 1788.8  | 1792.2  | 2009.8  | 2109.9  | 2286.0  | 2327.5  | 2268.8  | 2237.7  | 2237.7  |
| 20°   | 1032.5  | 1039.4  | 1067.0  | 1139.6  | 1181.0  | 1291.5  | 1381.3  | 1391.6  | 1360.6  | 1295.0  | 1263.9  |
| 22.5° | 669.9   | 690.6   | 669.9   | 697.5   | 739.0   | 801.1   | 842.6   | 849.5   | 808.1   | 783.9   | 780.4   |
| 25°   | 459.3   | 462.7   | 480.0   | 462.7   | 483.4   | 521.4   | 535.2   | 545.6   | 511.1   | 500.7   | 483.4   |
| 27.5° | 338.4   | 338.4   | 338.4   | 338.4   | 345.3   | 345.3   | 352.2   | 355.7   | 345.3   | 338.4   | 341.9   |
| 30°   | 259.0   | 255.5   | 259.0   | 259.0   | 252.1   | 259.0   | 262.4   | 262.4   | 255.5   | 255.5   | 252.1   |
| 32.5° | 200.3   | 203.7   | 207.2   | 203.7   | 200.3   | 203.7   | 207.2   | 203.7   | 203.7   | 207.2   | 200.3   |
| 35°   | 165.8   | 165.8   | 169.2   | 165.8   | 165.8   | 165.8   | 169.2   | 169.2   | 169.2   | 169.2   | 165.8   |
| 37.5° | 134.7   | 138.1   | 141.6   | 141.6   | 141.6   | 141.6   | 145.0   | 145.0   | 148.5   | 141.6   | 138.1   |
| 40°   | 117.4   | 117.4   | 120.9   | 120.9   | 124.3   | 120.9   | 124.3   | 127.8   | 127.8   | 124.3   | 124.3   |
| 42.5° | 103.6   | 103.6   | 107.0   | 107.0   | 107.0   | 110.5   | 114.0   | 114.0   | 114.0   | 114.0   | 110.5   |
| 45°   | 93.2    | 89.8    | 93.2    | 96.7    | 100.1   | 100.1   | 103.6   | 107.0   | 103.6   | 103.6   | 100.1   |
| 47.5° | 82.9    | 82.9    | 82.9    | 86.3    | 89.8    | 93.2    | 93.2    | 96.7    | 96.7    | 93.2    | 89.8    |
| 50°   | 72.5    | 72.5    | 76.0    | 79.4    | 82.9    | 86.3    | 86.3    | 89.8    | 89.8    | 86.3    | 82.9    |
| 52.5° | 62.2    | 62.2    | 65.6    | 72.5    | 76.0    | 79.4    | 79.4    | 82.9    | 82.9    | 79.4    | 76.0    |
| 55°   | 58.7    | 55.3    | 58.7    | 62.2    | 69.1    | 72.5    | 76.0    | 76.0    | 76.0    | 72.5    | 69.1    |
| 57.5° | 48.3    | 48.3    | 51.8    | 55.3    | 62.2    | 69.1    | 69.1    | 72.5    | 69.1    | 65.6    | 65.6    |
| 60°   | 44.9    | 44.9    | 48.3    | 51.8    | 58.7    | 65.6    | 65.6    | 65.6    | 62.2    | 58.7    | 58.7    |
| 62.5° | 38.0    | 38.0    | 41.4    | 44.9    | 51.8    | 58.7    | 62.2    | 62.2    | 58.7    | 55.3    | 51.8    |
| 65°   | 34.5    | 34.5    | 34.5    | 41.4    | 48.3    | 51.8    | 55.3    | 55.3    | 51.8    | 48.3    | 48.3    |
| 67.5° | 27.6    | 27.6    | 31.1    | 34.5    | 41.4    | 44.9    | 48.3    | 51.8    | 48.3    | 44.9    | 41.4    |
| 70°   | 24.2    | 24.2    | 24.2    | 31.1    | 38.0    | 41.4    | 44.9    | 44.9    | 41.4    | 38.0    | 38.0    |
| 72.5° | 17.3    | 17.3    | 20.7    | 24.2    | 31.1    | 34.5    | 38.0    | 38.0    | 34.5    | 31.1    | 31.1    |
| 75°   | 13.8    | 13.8    | 17.3    | 20.7    | 24.2    | 27.6    | 31.1    | 31.1    | 31.1    | 27.6    | 24.2    |
| 77.5° | 10.4    | 10.4    | 13.8    | 17.3    | 20.7    | 24.2    | 24.2    | 24.2    | 24.2    | 20.7    | 20.7    |
| 80°   | 6.9     | 6.9     | 10.4    | 10.4    | 13.8    | 17.3    | 17.3    | 17.3    | 17.3    | 13.8    | 13.8    |
| 82.5° | 6.9     | 3.5     | 6.9     | 6.9     | 10.4    | 10.4    | 13.8    | 13.8    | 10.4    | 10.4    | 10.4    |
| 85°   | 3.5     | 3.5     | 3.5     | 3.5     | 6.9     | 6.9     | 6.9     | 6.9     | 6.9     | 6.9     | 3.5     |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 3.5     | 3.5     | 3.5     | 3.5     | 3.5     | 3.5     | 3.5     |
| 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°    | 36389.9 | 36389.9 | 36389.9 | 36389.9 | 36389.9 | 36389.9 | 36389.9 | 36389.9 | 36389.9 | 36389.9 |
| 1°    | 35657.8 | 36179.2 | 35833.9 | 36220.7 | 36403.7 | 36403.7 | 36465.9 | 36203.4 | 36030.7 | 36158.5 |
| 2°    | 33983.0 | 34438.8 | 34573.5 | 34497.5 | 34266.2 | 34300.7 | 33862.1 | 33817.2 | 33240.6 | 33907.0 |
| 3°    | 31572.7 | 32076.8 | 31869.6 | 31603.7 | 31648.6 | 31154.8 | 30450.4 | 30118.9 | 29915.1 | 29821.9 |
| 4°    | 28678.9 | 29003.5 | 28948.2 | 28761.7 | 28178.2 | 27601.5 | 26962.6 | 27176.7 | 25874.9 | 26047.5 |
| 5°    | 25533.0 | 25895.6 | 25709.1 | 25094.4 | 24887.3 | 24265.7 | 23944.5 | 23281.5 | 22580.5 | 22684.1 |
| 6°    | 21965.8 | 21845.0 | 22200.7 | 21769.0 | 21668.9 | 20574.2 | 20401.5 | 20512.0 | 20021.7 | 19976.8 |
| 7°    | 18336.5 | 19179.1 | 18944.3 | 18637.0 | 18519.5 | 17866.9 | 17763.3 | 17093.4 | 17134.8 | 16879.3 |
| 8°    | 15957.3 | 16040.1 | 16257.7 | 15839.9 | 15460.0 | 15380.6 | 14980.0 | 14586.3 | 14672.7 | 14493.1 |
| 9°    | 13267.2 | 13526.2 | 13350.1 | 13391.5 | 12897.7 | 12386.6 | 12196.7 | 12300.3 | 12006.8 | 12048.2 |
| 10°   | 10749.8 | 11167.7 | 11057.2 | 10963.9 | 10867.2 | 10338.9 | 10249.1 | 10014.3 | 9858.9  | 9589.6  |
| 12.5° | 6768.3  | 6612.9  | 6688.9  | 6388.4  | 6271.0  | 5860.1  | 5780.7  | 5680.5  | 5345.6  | 5345.6  |
| 15°   | 4119.7  | 3791.6  | 3909.0  | 3529.2  | 3235.7  | 3149.3  | 2931.8  | 2935.2  | 2924.9  | 2911.1  |
| 17.5° | 2168.6  | 2168.6  | 2120.3  | 1819.8  | 1730.1  | 1574.7  | 1553.9  | 1574.7  | 1522.9  | 1533.2  |
| 20°   | 1274.2  | 1229.3  | 1156.8  | 1015.2  | 953.1   | 887.5   | 873.7   | 863.3   | 863.3   | 832.2   |
| 22.5° | 783.9   | 745.9   | 704.5   | 618.1   | 569.8   | 549.1   | 528.3   | 538.7   | 538.7   | 542.2   |
| 25°   | 500.7   | 469.6   | 452.4   | 400.6   | 379.9   | 376.4   | 366.0   | 352.2   | 355.7   | 369.5   |
| 27.5° | 335.0   | 321.1   | 307.3   | 286.6   | 272.8   | 265.9   | 265.9   | 269.4   | 262.4   | 255.5   |
| 30°   | 252.1   | 234.8   | 227.9   | 221.0   | 210.6   | 210.6   | 210.6   | 207.2   | 203.7   | 207.2   |
| 32.5° | 200.3   | 189.9   | 183.0   | 176.1   | 172.7   | 169.2   | 172.7   | 169.2   | 165.8   | 162.3   |
| 35°   | 165.8   | 155.4   | 151.9   | 148.5   | 145.0   | 141.6   | 141.6   | 141.6   | 134.7   | 131.2   |
| 37.5° | 138.1   | 134.7   | 134.7   | 127.8   | 124.3   | 120.9   | 120.9   | 120.9   | 114.0   | 114.0   |
| 40°   | 124.3   | 120.9   | 117.4   | 114.0   | 110.5   | 107.0   | 103.6   | 103.6   | 96.7    | 96.7    |
| 42.5° | 110.5   | 107.0   | 107.0   | 103.6   | 100.1   | 93.2    | 93.2    | 89.8    | 86.3    | 86.3    |
| 45°   | 100.1   | 96.7    | 96.7    | 93.2    | 89.8    | 86.3    | 82.9    | 79.4    | 76.0    | 76.0    |
| 47.5° | 93.2    | 89.8    | 89.8    | 86.3    | 79.4    | 76.0    | 72.5    | 69.1    | 69.1    | 69.1    |
| 50°   | 82.9    | 82.9    | 82.9    | 79.4    | 76.0    | 72.5    | 65.6    | 62.2    | 58.7    | 58.7    |
| 52.5° | 76.0    | 76.0    | 72.5    | 72.5    | 69.1    | 65.6    | 58.7    | 55.3    | 55.3    | 55.3    |
| 55°   | 72.5    | 69.1    | 69.1    | 65.6    | 62.2    | 62.2    | 55.3    | 51.8    | 48.3    | 48.3    |
| 57.5° | 65.6    | 62.2    | 62.2    | 58.7    | 58.7    | 55.3    | 48.3    | 48.3    | 44.9    | 44.9    |
| 60°   | 58.7    | 55.3    | 55.3    | 51.8    | 51.8    | 48.3    | 44.9    | 41.4    | 41.4    | 41.4    |
| 62.5° | 51.8    | 48.3    | 51.8    | 48.3    | 48.3    | 44.9    | 41.4    | 38.0    | 38.0    | 38.0    |
| 65°   | 48.3    | 44.9    | 44.9    | 44.9    | 41.4    | 41.4    | 38.0    | 34.5    | 34.5    | 34.5    |
| 67.5° | 41.4    | 38.0    | 41.4    | 38.0    | 38.0    | 34.5    | 34.5    | 31.1    | 31.1    | 27.6    |
| 70°   | 34.5    | 34.5    | 34.5    | 34.5    | 34.5    | 31.1    | 27.6    | 27.6    | 24.2    | 24.2    |
| 72.5° | 31.1    | 31.1    | 31.1    | 31.1    | 27.6    | 27.6    | 24.2    | 24.2    | 20.7    | 20.7    |
| 75°   | 24.2    | 24.2    | 24.2    | 24.2    | 24.2    | 24.2    | 20.7    | 20.7    | 17.3    | 17.3    |
| 77.5° | 20.7    | 20.7    | 20.7    | 20.7    | 20.7    | 17.3    | 17.3    | 13.8    | 13.8    | 13.8    |
| 80°   | 13.8    | 13.8    | 13.8    | 13.8    | 13.8    | 13.8    | 13.8    | 10.4    | 10.4    | 10.4    |
| 82.5° | 10.4    | 10.4    | 10.4    | 10.4    | 10.4    | 6.9     | 6.9     | 6.9     | 6.9     | 6.9     |
| 85°   | 6.9     | 6.9     | 6.9     | 6.9     | 6.9     | 3.5     | 3.5     | 3.5     | 3.5     | 3.5     |
| 87.5° | 3.5     | 3.5     | 3.5     | 3.5     | 3.5     | 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)