

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: CORELITE

Report Number: P183737

Luminaire Tested: **I2-WS-2L30-1D-UNV-4-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183737  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26978)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: I2-WS-2L30-1D-UNV-4-STD  
Description: CORELITE IRIDIUM SUSPENDED DIRECT-INDIRECT LED LUMINAIRE, 4 FOOT.  
WaveStream WITH FROSTED LENS. 50% UP / 50% DOWN.  
Light Source: (336)3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3554.9 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 1.69 / 1.63  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')  
CIE Type: General Diffuse

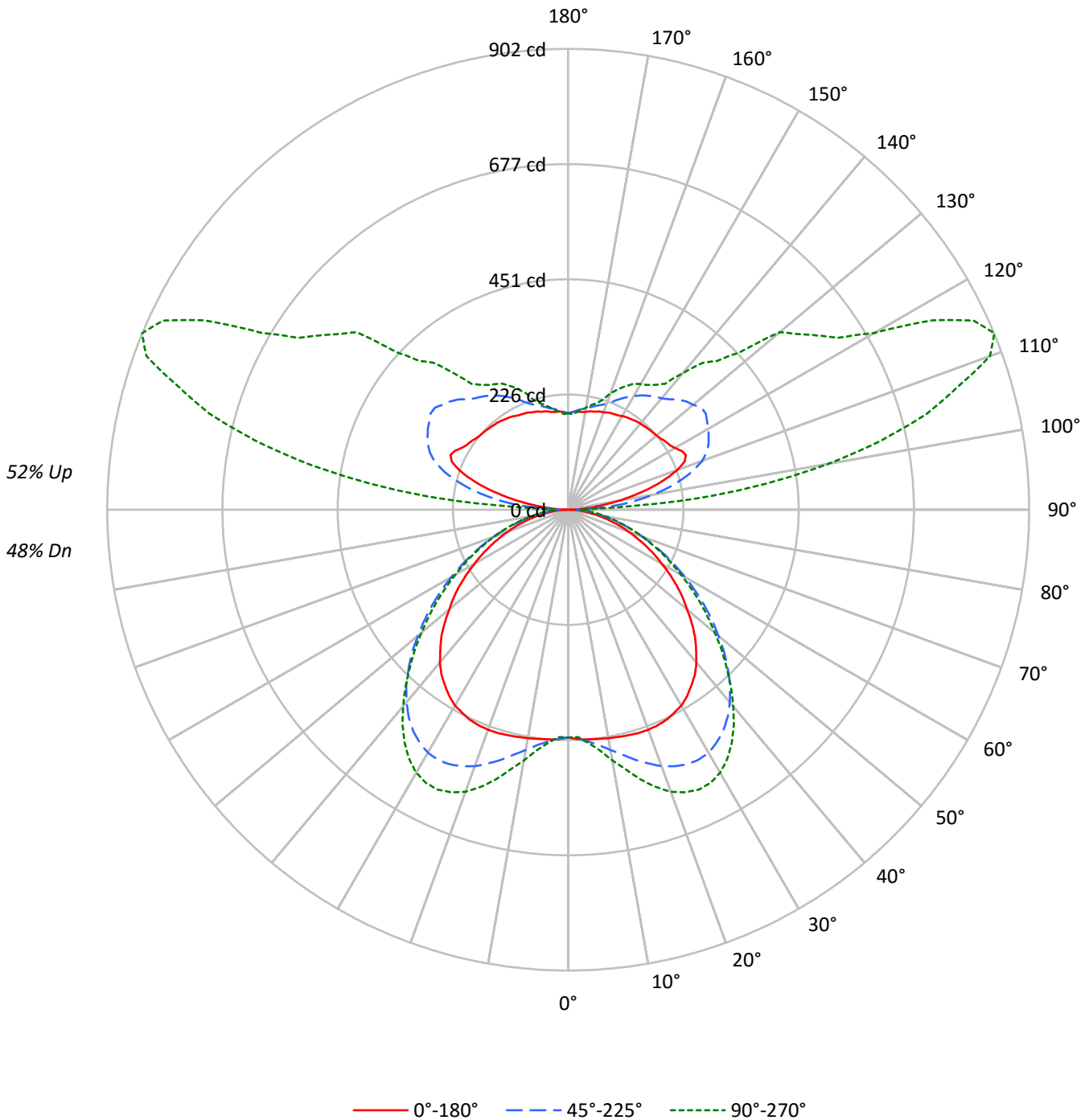
Input Watts (W): 35.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





TEST NUMBER: P183737

CATALOG NUMBER: I2-WS-2L30-1D-UNV-4-STD

**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 | 0  |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 67 | 67 | 67 | 54 | 54 | 54 | 48 |
| 1   | 97  | 93  | 89  | 85  | 89 | 85 | 82 | 79 | 72 | 69 | 67 | 59 | 57 | 56 | 47 | 46 | 45 | 40 |
| 2   | 88  | 81  | 75  | 69  | 81 | 74 | 69 | 64 | 63 | 59 | 55 | 52 | 49 | 46 | 42 | 40 | 38 | 33 |
| 3   | 80  | 71  | 63  | 57  | 74 | 65 | 59 | 54 | 55 | 50 | 46 | 45 | 42 | 39 | 37 | 34 | 32 | 28 |
| 4   | 73  | 62  | 54  | 48  | 67 | 58 | 51 | 45 | 49 | 43 | 39 | 40 | 36 | 33 | 33 | 30 | 27 | 24 |
| 5   | 67  | 56  | 47  | 41  | 62 | 51 | 44 | 39 | 43 | 38 | 34 | 36 | 32 | 29 | 29 | 26 | 24 | 20 |
| 6   | 62  | 50  | 41  | 36  | 57 | 46 | 39 | 33 | 39 | 33 | 29 | 32 | 28 | 25 | 26 | 23 | 21 | 18 |
| 7   | 57  | 45  | 37  | 31  | 52 | 41 | 34 | 29 | 35 | 30 | 25 | 29 | 25 | 22 | 24 | 21 | 18 | 16 |
| 8   | 53  | 40  | 33  | 27  | 48 | 38 | 31 | 26 | 32 | 26 | 22 | 27 | 22 | 19 | 22 | 19 | 16 | 14 |
| 9   | 49  | 37  | 29  | 24  | 45 | 34 | 27 | 23 | 29 | 24 | 20 | 25 | 20 | 17 | 20 | 17 | 15 | 12 |
| 10  | 46  | 34  | 26  | 22  | 42 | 31 | 25 | 20 | 27 | 22 | 18 | 23 | 18 | 15 | 19 | 15 | 13 | 11 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3569 | 3569 | 3569 |
| 5°  | 3610 | 3528 | 3514 |
| 10° | 3655 | 3608 | 3689 |
| 15° | 3731 | 3763 | 3944 |
| 20° | 3826 | 3933 | 4165 |
| 25° | 3907 | 4042 | 4243 |
| 30° | 3962 | 4062 | 4164 |
| 35° | 3947 | 3964 | 3926 |
| 40° | 3891 | 3769 | 3583 |
| 45° | 3752 | 3492 | 3193 |
| 50° | 3538 | 3153 | 2809 |
| 55° | 3348 | 2796 | 2442 |
| 60° | 3077 | 2414 | 2085 |
| 65° | 2821 | 2041 | 1755 |
| 70° | 2551 | 1660 | 1434 |
| 75° | 2200 | 1283 | 1115 |
| 80° | 1821 | 917  | 805  |
| 85° | 1331 | 580  | 550  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 44.0   | 1.2       |
| 10°-20°   | 143.2  | 4.0       |
| 20°-30°   | 247.9  | 7.0       |
| 30°-40°   | 316.9  | 8.9       |
| 40°-50°   | 321.8  | 9.1       |
| 50°-60°   | 272.9  | 7.7       |
| 60°-70°   | 195.3  | 5.5       |
| 70°-80°   | 111.0  | 3.1       |
| 80°-90°   | 41.5   | 1.2       |
| 90°-100°  | 132.3  | 3.7       |
| 100°-110° | 367.6  | 10.3      |
| 110°-120° | 425.0  | 12.0      |
| 120°-130° | 337.5  | 9.5       |
| 130°-140° | 243.0  | 6.8       |
| 140°-150° | 166.5  | 4.7       |
| 150°-160° | 110.1  | 3.1       |
| 160°-170° | 59.7   | 1.7       |
| 170°-180° | 18.7   | 0.5       |
| 0°-30°    | 435.1  | 12.2      |
| 0°-40°    | 752.0  | 21.2      |
| 0°-60°    | 1346.7 | 37.9      |
| 0°-90°    | 1694.5 | 47.7      |
| 90°-120°  | 924.8  | 26.0      |
| 90°-150°  | 1671.8 | 47.0      |
| 90°-180°  | 1860.0 | 52.3      |
| 0°-180°   | 3554.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 446 | 446   | 446 | 446   | 446 |      |
| 5°   | 451 | 449   | 455 | 458   | 458 | 43   |
| 15°  | 457 | 469   | 507 | 537   | 546 | 130  |
| 25°  | 454 | 483   | 550 | 592   | 604 | 209  |
| 35°  | 420 | 459   | 529 | 557   | 558 | 263  |
| 45°  | 350 | 388   | 442 | 447   | 438 | 269  |
| 55°  | 260 | 288   | 324 | 321   | 314 | 231  |
| 65°  | 167 | 186   | 208 | 206   | 203 | 166  |
| 75°  | 86  | 97    | 109 | 111   | 111 | 93   |
| 85°  | 24  | 29    | 38  | 44    | 44  | 25   |
| 90°  | 1   | 11    | 17  | 22    | 23  | 4    |
| 95°  | 38  | 49    | 92  | 211   | 253 | 45   |
| 105° | 169 | 175   | 231 | 574   | 726 | 175  |
| 115° | 254 | 262   | 303 | 620   | 875 | 244  |
| 125° | 233 | 271   | 328 | 500   | 594 | 209  |
| 135° | 223 | 248   | 305 | 372   | 412 | 173  |
| 145° | 216 | 234   | 272 | 291   | 298 | 136  |
| 155° | 207 | 214   | 239 | 259   | 267 | 96   |
| 165° | 199 | 202   | 211 | 215   | 216 | 57   |
| 175° | 193 | 193   | 195 | 195   | 192 | 18   |
| 180° | 189 | 189   | 189 | 189   | 189 |      |



TEST NUMBER: P183737

CATALOG NUMBER: I2-WS-2L30-1D-UNV-4-STD

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 30°   | 40°   | 50°   | 60°   | 70°   | 80°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 445.5 | 445.5 | 445.5 | 445.5 | 445.5 | 445.5 | 445.5 | 445.5 | 445.5 | 445.5 |
| 2.5°   | 449.8 | 448.4 | 445.5 | 445.5 | 446.9 | 451.2 | 449.8 | 448.4 | 446.9 | 445.5 |
| 5°     | 451.2 | 448.4 | 448.4 | 449.8 | 452.6 | 458.3 | 458.3 | 458.3 | 458.3 | 458.3 |
| 7.5°   | 452.6 | 451.2 | 451.2 | 455.5 | 459.7 | 469.6 | 471.1 | 473.9 | 475.3 | 475.3 |
| 10°    | 454.0 | 452.6 | 455.5 | 462.5 | 471.1 | 483.8 | 489.5 | 493.8 | 496.6 | 498.0 |
| 12.5°  | 455.5 | 455.5 | 459.7 | 469.6 | 482.4 | 499.4 | 507.9 | 515.0 | 519.3 | 520.7 |
| 15°    | 456.9 | 458.3 | 465.4 | 479.6 | 496.6 | 516.5 | 529.2 | 539.2 | 544.8 | 546.3 |
| 17.5°  | 458.3 | 459.7 | 469.6 | 486.7 | 507.9 | 533.5 | 547.7 | 560.4 | 567.5 | 569.0 |
| 20°    | 458.3 | 461.1 | 473.9 | 495.2 | 520.7 | 547.7 | 564.7 | 577.5 | 584.6 | 587.4 |
| 22.5°  | 456.9 | 459.7 | 475.3 | 500.9 | 529.2 | 557.6 | 576.1 | 588.8 | 597.3 | 598.8 |
| 25°    | 454.0 | 458.3 | 476.7 | 503.7 | 534.9 | 564.7 | 583.1 | 594.5 | 601.6 | 604.4 |
| 27.5°  | 448.4 | 454.0 | 473.9 | 503.7 | 537.7 | 566.1 | 584.6 | 594.5 | 600.2 | 603.0 |
| 30°    | 442.7 | 448.4 | 469.6 | 500.9 | 534.9 | 563.3 | 578.9 | 588.8 | 593.1 | 594.5 |
| 32.5°  | 432.7 | 439.8 | 461.1 | 493.8 | 527.8 | 553.4 | 569.0 | 576.1 | 578.9 | 578.9 |
| 35°    | 420.0 | 427.1 | 451.2 | 483.8 | 516.5 | 540.6 | 553.4 | 557.6 | 557.6 | 557.6 |
| 37.5°  | 407.2 | 414.3 | 437.0 | 469.6 | 500.9 | 523.6 | 533.5 | 534.9 | 533.5 | 532.1 |
| 40°    | 390.2 | 397.3 | 420.0 | 452.6 | 482.4 | 500.9 | 507.9 | 506.5 | 503.7 | 502.3 |
| 42.5°  | 370.3 | 377.4 | 401.5 | 431.3 | 461.1 | 476.7 | 479.6 | 476.7 | 472.5 | 471.1 |
| 45°    | 350.5 | 357.5 | 380.3 | 410.0 | 435.6 | 448.4 | 449.8 | 445.5 | 439.8 | 438.4 |
| 47.5°  | 327.8 | 334.8 | 356.1 | 385.9 | 408.6 | 420.0 | 418.6 | 414.3 | 408.6 | 407.2 |
| 50°    | 303.6 | 312.1 | 332.0 | 360.4 | 378.8 | 388.8 | 387.3 | 381.7 | 376.0 | 374.6 |
| 52.5°  | 282.4 | 289.4 | 307.9 | 333.4 | 350.5 | 357.5 | 356.1 | 350.5 | 344.8 | 343.4 |
| 55°    | 259.6 | 265.3 | 282.4 | 305.1 | 320.7 | 327.8 | 324.9 | 319.2 | 313.6 | 313.6 |
| 57.5°  | 235.5 | 241.2 | 256.8 | 276.7 | 290.9 | 296.5 | 293.7 | 289.4 | 285.2 | 283.8 |
| 60°    | 211.4 | 218.5 | 232.7 | 249.7 | 262.5 | 265.3 | 263.9 | 259.6 | 256.8 | 255.4 |
| 62.5°  | 190.1 | 195.8 | 208.6 | 222.8 | 232.7 | 238.4 | 235.5 | 232.7 | 228.4 | 228.4 |
| 65°    | 167.4 | 173.1 | 183.0 | 195.8 | 205.7 | 210.0 | 208.6 | 205.7 | 202.9 | 202.9 |
| 67.5°  | 146.1 | 150.4 | 160.3 | 171.7 | 178.8 | 183.0 | 181.6 | 180.2 | 177.4 | 177.4 |
| 70°    | 126.3 | 129.1 | 137.6 | 146.1 | 153.2 | 157.5 | 157.5 | 156.1 | 154.7 | 154.7 |
| 72.5°  | 106.4 | 109.3 | 116.3 | 123.4 | 129.1 | 133.4 | 134.8 | 132.0 | 132.0 | 132.0 |
| 75°    | 86.5  | 90.8  | 95.1  | 102.2 | 106.4 | 110.7 | 112.1 | 110.7 | 110.7 | 110.7 |
| 77.5°  | 69.5  | 72.4  | 76.6  | 82.3  | 85.1  | 89.4  | 90.8  | 90.8  | 90.8  | 90.8  |
| 80°    | 52.5  | 55.3  | 59.6  | 62.4  | 66.7  | 70.9  | 72.4  | 72.4  | 73.8  | 72.4  |
| 82.5°  | 38.3  | 39.7  | 42.6  | 46.8  | 49.7  | 53.9  | 56.8  | 56.8  | 58.2  | 58.2  |
| 85°    | 24.1  | 25.5  | 28.4  | 32.6  | 35.5  | 39.7  | 42.6  | 44.0  | 44.0  | 44.0  |
| 87.5°  | 9.9   | 14.2  | 17.0  | 21.3  | 24.1  | 28.4  | 31.2  | 32.6  | 32.6  | 32.6  |
| 90°    | 1.4   | 7.1   | 9.9   | 12.8  | 15.6  | 18.4  | 21.3  | 22.7  | 22.7  | 22.7  |
| 92.5°  | 15.6  | 19.9  | 21.3  | 24.1  | 31.2  | 44.0  | 56.8  | 59.6  | 62.4  | 62.4  |
| 95°    | 38.3  | 45.4  | 48.2  | 49.7  | 66.7  | 117.8 | 180.2 | 221.3 | 242.6 | 252.6 |
| 97.5°  | 68.1  | 75.2  | 79.5  | 76.6  | 97.9  | 166.0 | 268.2 | 336.3 | 377.4 | 390.2 |
| 100°   | 99.3  | 107.8 | 112.1 | 105.0 | 129.1 | 207.2 | 347.6 | 435.6 | 493.8 | 516.5 |
| 102.5° | 133.4 | 141.9 | 146.1 | 133.4 | 156.1 | 245.5 | 412.9 | 527.8 | 598.8 | 628.5 |
| 105°   | 168.8 | 174.5 | 178.8 | 161.7 | 181.6 | 280.9 | 465.4 | 610.1 | 693.8 | 726.4 |
| 107.5° | 200.1 | 204.3 | 207.2 | 190.1 | 204.3 | 310.7 | 489.5 | 675.4 | 774.7 | 798.8 |
| 110°   | 227.0 | 231.3 | 231.3 | 217.1 | 225.6 | 332.0 | 489.5 | 716.5 | 834.3 | 878.3 |



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CATALOG NUMBER: I2-WS-2L30-1D-UNV-4-STD

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 30°   | 40°   | 50°   | 60°   | 70°   | 80°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 246.9 | 252.6 | 249.7 | 241.2 | 242.6 | 343.4 | 485.2 | 713.7 | 859.8 | 902.4 |
| 115°   | 254.0 | 263.9 | 262.5 | 261.1 | 262.5 | 343.4 | 485.2 | 665.4 | 825.8 | 875.4 |
| 117.5° | 249.7 | 266.7 | 275.3 | 273.8 | 278.1 | 341.9 | 479.6 | 601.6 | 743.5 | 803.1 |
| 120°   | 241.2 | 262.5 | 283.8 | 285.2 | 292.3 | 341.9 | 462.5 | 563.3 | 654.1 | 692.4 |
| 122.5° | 235.5 | 246.9 | 280.9 | 288.0 | 303.6 | 340.5 | 445.5 | 536.3 | 605.8 | 625.7 |
| 125°   | 232.7 | 236.9 | 265.3 | 286.6 | 307.9 | 349.0 | 432.7 | 522.1 | 578.9 | 594.5 |
| 127.5° | 228.4 | 232.7 | 252.6 | 278.1 | 306.5 | 350.5 | 408.6 | 502.3 | 547.7 | 564.7 |
| 130°   | 225.6 | 231.3 | 246.9 | 271.0 | 299.4 | 339.1 | 388.8 | 461.1 | 525.0 | 540.6 |
| 132.5° | 224.2 | 229.9 | 245.5 | 269.6 | 296.5 | 330.6 | 363.2 | 401.5 | 449.8 | 456.9 |
| 135°   | 222.8 | 228.4 | 242.6 | 265.3 | 290.9 | 319.2 | 353.3 | 378.8 | 403.0 | 411.5 |
| 137.5° | 221.3 | 227.0 | 238.4 | 261.1 | 283.8 | 302.2 | 332.0 | 361.8 | 383.1 | 390.2 |
| 140°   | 219.9 | 224.2 | 236.9 | 256.8 | 278.1 | 290.9 | 306.5 | 323.5 | 339.1 | 349.0 |
| 142.5° | 218.5 | 222.8 | 232.7 | 251.1 | 272.4 | 285.2 | 293.7 | 302.2 | 307.9 | 310.7 |
| 145°   | 215.7 | 219.9 | 229.9 | 245.5 | 265.3 | 279.5 | 286.6 | 292.3 | 296.5 | 298.0 |
| 147.5° | 214.2 | 215.7 | 224.2 | 238.4 | 258.2 | 272.4 | 280.9 | 285.2 | 288.0 | 289.4 |
| 150°   | 211.4 | 212.8 | 219.9 | 232.7 | 249.7 | 263.9 | 273.8 | 280.9 | 282.4 | 283.8 |
| 152.5° | 208.6 | 210.0 | 215.7 | 225.6 | 241.2 | 255.4 | 263.9 | 272.4 | 276.7 | 278.1 |
| 155°   | 207.2 | 207.2 | 211.4 | 219.9 | 232.7 | 245.5 | 254.0 | 261.1 | 265.3 | 266.7 |
| 157.5° | 205.7 | 205.7 | 208.6 | 215.7 | 224.2 | 234.1 | 244.0 | 249.7 | 254.0 | 255.4 |
| 160°   | 202.9 | 202.9 | 205.7 | 211.4 | 217.1 | 224.2 | 231.3 | 238.4 | 242.6 | 242.6 |
| 162.5° | 201.5 | 201.5 | 202.9 | 207.2 | 212.8 | 217.1 | 219.9 | 222.8 | 225.6 | 225.6 |
| 165°   | 198.6 | 200.1 | 201.5 | 204.3 | 208.6 | 212.8 | 214.2 | 215.7 | 215.7 | 215.7 |
| 167.5° | 197.2 | 198.6 | 200.1 | 201.5 | 204.3 | 207.2 | 208.6 | 210.0 | 210.0 | 210.0 |
| 170°   | 194.4 | 195.8 | 197.2 | 200.1 | 200.1 | 202.9 | 202.9 | 204.3 | 204.3 | 202.9 |
| 172.5° | 193.0 | 194.4 | 195.8 | 197.2 | 198.6 | 198.6 | 198.6 | 198.6 | 197.2 | 197.2 |
| 175°   | 193.0 | 193.0 | 193.0 | 194.4 | 194.4 | 195.8 | 195.8 | 194.4 | 193.0 | 191.5 |
| 177.5° | 191.5 | 191.5 | 191.5 | 191.5 | 190.1 | 191.5 | 190.1 | 190.1 | 188.7 | 187.3 |
| 180°   | 188.7 | 188.7 | 188.7 | 188.7 | 188.7 | 188.7 | 188.7 | 188.7 | 188.7 | 188.7 |

(END OF REPORT)