

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: P183757

Luminaire Tested: **I2-WS-2L35-1D-UNV-4-STD-DM5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26979)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I2-WS-2L35-1D-UNV-4-STD-DM5
Description: CORELITE IRIDIUM SUSPENDED DIRECT-INDIRECT LED LUMINAIRE, 4 FOOT.
WaveStream WITH FROSTED LENS. 40% UP / 60% DOWN.
Light Source: (336)3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

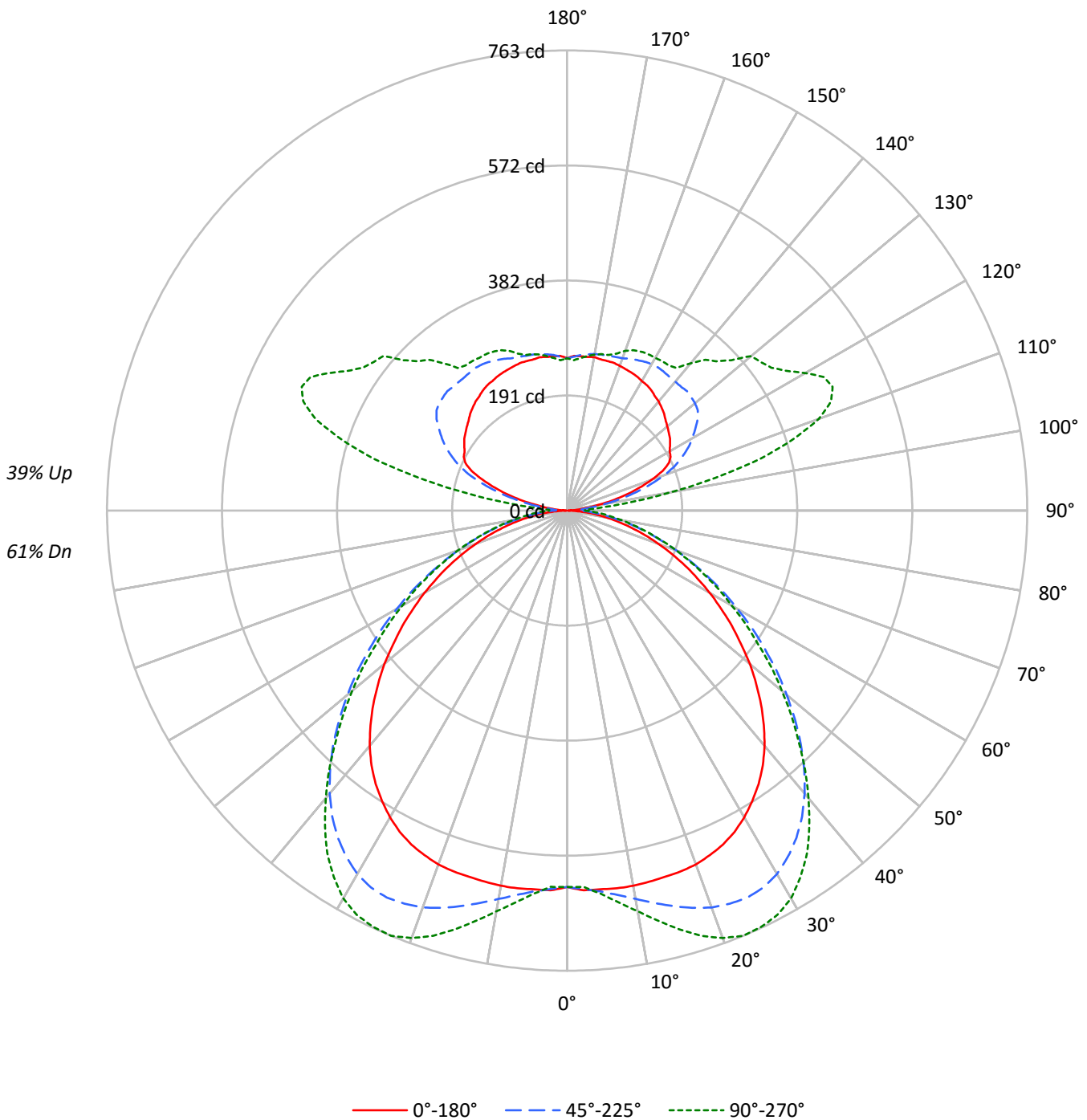
Lumens per Lamp: N/A
Luminaire Lumens: 3521.4 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.58 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')
CIE Type: Semi-Direct

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



TEST NUMBER: P183757
CATALOG NUMBER: I2-WS-2L35-1D-UNV-4-STD-DM5

Luminous Intensity Polar Plot





TEST NUMBER: P183757

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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 110 | 110 | 110 | 110 | 103 | 103 | 103 | 103 | 89 | 89 | 89 | 77 | 77 | 77 | 66 | 66 | 66 | 61 |
| 1 | 100 | 96 | 92 | 88 | 93 | 90 | 86 | 83 | 78 | 76 | 73 | 68 | 66 | 64 | 58 | 57 | 56 | 51 |
| 2 | 91 | 83 | 77 | 72 | 85 | 78 | 73 | 68 | 68 | 64 | 60 | 59 | 56 | 53 | 51 | 49 | 47 | 43 |
| 3 | 83 | 73 | 66 | 60 | 77 | 69 | 62 | 56 | 60 | 55 | 51 | 52 | 48 | 45 | 45 | 42 | 40 | 36 |
| 4 | 76 | 65 | 56 | 50 | 71 | 61 | 53 | 48 | 53 | 48 | 43 | 47 | 42 | 38 | 40 | 37 | 34 | 31 |
| 5 | 70 | 58 | 49 | 43 | 65 | 54 | 47 | 41 | 48 | 42 | 37 | 42 | 37 | 33 | 36 | 32 | 29 | 26 |
| 6 | 64 | 52 | 43 | 37 | 60 | 49 | 41 | 36 | 43 | 37 | 32 | 38 | 33 | 29 | 33 | 29 | 26 | 23 |
| 7 | 59 | 47 | 38 | 33 | 55 | 44 | 36 | 31 | 39 | 33 | 28 | 34 | 29 | 26 | 30 | 26 | 23 | 20 |
| 8 | 55 | 42 | 34 | 29 | 51 | 40 | 33 | 27 | 35 | 29 | 25 | 31 | 26 | 23 | 27 | 23 | 20 | 18 |
| 9 | 51 | 38 | 31 | 26 | 48 | 36 | 29 | 24 | 32 | 27 | 22 | 29 | 24 | 20 | 25 | 21 | 18 | 16 |
| 10 | 48 | 35 | 28 | 23 | 45 | 33 | 27 | 22 | 30 | 24 | 20 | 26 | 22 | 18 | 23 | 19 | 16 | 15 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5001 | 5001 | 5001 |
| 5° | 5042 | 4911 | 4889 |
| 10° | 5086 | 4940 | 4997 |
| 15° | 5134 | 5044 | 5188 |
| 20° | 5212 | 5156 | 5348 |
| 25° | 5258 | 5202 | 5346 |
| 30° | 5257 | 5147 | 5199 |
| 35° | 5200 | 4970 | 4883 |
| 40° | 5077 | 4695 | 4442 |
| 45° | 4867 | 4331 | 3955 |
| 50° | 4609 | 3904 | 3486 |
| 55° | 4301 | 3449 | 3012 |
| 60° | 3974 | 2983 | 2579 |
| 65° | 3632 | 2507 | 2170 |
| 70° | 3249 | 2050 | 1779 |
| 75° | 2815 | 1596 | 1383 |
| 80° | 2304 | 1131 | 1017 |
| 85° | 1546 | 717 | 702 |



TEST NUMBER: P183757

CATALOG NUMBER: I2-WS-2L35-1D-UNV-4-STD-DM5

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 61.0 | 1.7 |
| 10°-20° | 191.7 | 5.4 |
| 20°-30° | 320.1 | 9.1 |
| 30°-40° | 400.1 | 11.4 |
| 40°-50° | 402.9 | 11.4 |
| 50°-60° | 340.9 | 9.7 |
| 60°-70° | 243.5 | 6.9 |
| 70°-80° | 138.4 | 3.9 |
| 80°-90° | 51.3 | 1.5 |
| 90°-100° | 44.5 | 1.3 |
| 100°-110° | 179.4 | 5.1 |
| 110°-120° | 268.1 | 7.6 |
| 120°-130° | 260.5 | 7.4 |
| 130°-140° | 220.2 | 6.3 |
| 140°-150° | 172.6 | 4.9 |
| 150°-160° | 126.4 | 3.6 |
| 160°-170° | 75.1 | 2.1 |
| 170°-180° | 24.7 | 0.7 |
| 0°-30° | 572.9 | 16.3 |
| 0°-40° | 973.0 | 27.6 |
| 0°-60° | 1716.8 | 48.8 |
| 0°-90° | 2149.9 | 61.1 |
| 90°-120° | 492.0 | 14.0 |
| 90°-150° | 1145.3 | 32.5 |
| 90°-180° | 1371.0 | 38.9 |
| 0°-180° | 3521.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 624 | 624 | 624 | 624 | 624 | |
| 5° | 630 | 626 | 634 | 636 | 638 | 60 |
| 15° | 629 | 638 | 679 | 710 | 719 | 178 |
| 25° | 611 | 639 | 708 | 750 | 762 | 281 |
| 35° | 553 | 593 | 663 | 691 | 694 | 345 |
| 45° | 455 | 493 | 548 | 550 | 543 | 350 |
| 55° | 334 | 363 | 400 | 397 | 387 | 298 |
| 65° | 216 | 234 | 255 | 256 | 251 | 214 |
| 75° | 111 | 121 | 135 | 139 | 137 | 118 |
| 85° | 28 | 35 | 46 | 54 | 56 | 31 |
| 90° | 2 | 11 | 21 | 28 | 30 | 3 |
| 95° | 15 | 16 | 25 | 47 | 55 | 20 |
| 105° | 100 | 101 | 119 | 262 | 332 | 106 |
| 115° | 186 | 187 | 210 | 369 | 486 | 179 |
| 125° | 208 | 230 | 264 | 360 | 413 | 186 |
| 135° | 227 | 245 | 280 | 321 | 350 | 175 |
| 145° | 244 | 258 | 280 | 290 | 294 | 152 |
| 155° | 252 | 259 | 275 | 287 | 291 | 117 |
| 165° | 257 | 262 | 266 | 267 | 267 | 73 |
| 175° | 257 | 257 | 259 | 257 | 254 | 25 |
| 180° | 252 | 252 | 252 | 252 | 252 | |



TEST NUMBER: P183757

CATALOG NUMBER: I2-WS-2L35-1D-UNV-4-STD-DM5

CANDELA DISTRIBUTION (FULL):

| | 0° | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 624.3 | 624.3 | 624.3 | 624.3 | 624.3 | 624.3 | 624.3 | 624.3 | 624.3 | 624.3 |
| 2.5° | 630.2 | 627.2 | 624.3 | 624.3 | 624.3 | 631.7 | 628.7 | 627.2 | 624.3 | 624.3 |
| 5° | 630.2 | 627.2 | 625.8 | 627.2 | 630.2 | 637.6 | 636.1 | 636.1 | 637.6 | 637.6 |
| 7.5° | 631.7 | 628.7 | 627.2 | 631.7 | 637.6 | 647.9 | 649.4 | 652.3 | 653.8 | 655.3 |
| 10° | 631.7 | 628.7 | 630.2 | 637.6 | 646.4 | 661.2 | 665.6 | 670.0 | 673.0 | 674.5 |
| 12.5° | 630.2 | 628.7 | 633.1 | 643.5 | 656.8 | 675.9 | 683.3 | 690.7 | 695.1 | 696.6 |
| 15° | 628.7 | 628.7 | 634.6 | 649.4 | 667.1 | 690.7 | 701.0 | 712.8 | 718.7 | 718.7 |
| 17.5° | 627.2 | 627.2 | 637.6 | 655.3 | 677.4 | 704.0 | 718.7 | 730.5 | 737.9 | 739.4 |
| 20° | 624.3 | 624.3 | 637.6 | 659.7 | 686.3 | 714.3 | 730.5 | 743.8 | 752.7 | 754.2 |
| 22.5° | 618.4 | 621.3 | 636.1 | 661.2 | 690.7 | 720.2 | 737.9 | 751.2 | 760.1 | 763.0 |
| 25° | 611.0 | 614.0 | 631.7 | 659.7 | 692.2 | 723.2 | 740.9 | 752.7 | 760.1 | 761.5 |
| 27.5° | 600.7 | 605.1 | 624.3 | 655.3 | 689.2 | 720.2 | 736.4 | 746.8 | 752.7 | 755.6 |
| 30° | 587.4 | 593.3 | 614.0 | 646.4 | 681.8 | 709.9 | 726.1 | 735.0 | 739.4 | 742.4 |
| 32.5° | 571.2 | 577.1 | 600.7 | 633.1 | 668.6 | 693.6 | 708.4 | 715.8 | 717.3 | 720.2 |
| 35° | 553.4 | 559.3 | 584.4 | 616.9 | 650.8 | 674.5 | 686.3 | 692.2 | 690.7 | 693.6 |
| 37.5° | 532.8 | 538.7 | 563.8 | 596.2 | 628.7 | 650.8 | 659.7 | 661.2 | 658.2 | 659.7 |
| 40° | 509.2 | 515.1 | 540.2 | 572.6 | 602.1 | 622.8 | 627.2 | 624.3 | 621.3 | 622.8 |
| 42.5° | 482.6 | 490.0 | 513.6 | 544.6 | 574.1 | 588.9 | 593.3 | 588.9 | 583.0 | 584.4 |
| 45° | 454.6 | 461.9 | 485.6 | 515.1 | 541.6 | 554.9 | 554.9 | 549.0 | 544.6 | 543.1 |
| 47.5° | 425.0 | 432.4 | 454.6 | 484.1 | 506.2 | 518.0 | 518.0 | 512.1 | 504.7 | 504.7 |
| 50° | 395.5 | 401.4 | 422.1 | 451.6 | 469.3 | 481.1 | 478.2 | 472.3 | 466.4 | 464.9 |
| 52.5° | 363.1 | 371.9 | 389.6 | 417.7 | 433.9 | 442.8 | 441.3 | 435.4 | 428.0 | 426.5 |
| 55° | 333.5 | 340.9 | 357.2 | 380.8 | 395.5 | 404.4 | 401.4 | 395.5 | 389.6 | 386.7 |
| 57.5° | 302.5 | 309.9 | 326.2 | 345.3 | 360.1 | 367.5 | 364.5 | 358.6 | 354.2 | 351.3 |
| 60° | 273.0 | 278.9 | 293.7 | 309.9 | 323.2 | 329.1 | 327.6 | 323.2 | 318.8 | 315.8 |
| 62.5° | 243.5 | 249.4 | 261.2 | 276.0 | 287.8 | 293.7 | 292.2 | 289.3 | 284.8 | 283.4 |
| 65° | 215.5 | 219.9 | 230.2 | 243.5 | 252.4 | 258.3 | 258.3 | 255.3 | 252.4 | 250.9 |
| 67.5° | 187.4 | 191.9 | 200.7 | 212.5 | 219.9 | 225.8 | 227.3 | 224.3 | 221.4 | 219.9 |
| 70° | 160.9 | 165.3 | 171.2 | 181.5 | 188.9 | 194.8 | 196.3 | 194.8 | 191.9 | 191.9 |
| 72.5° | 135.8 | 138.7 | 144.6 | 152.0 | 160.9 | 163.8 | 165.3 | 165.3 | 165.3 | 163.8 |
| 75° | 110.7 | 113.6 | 119.5 | 126.9 | 132.8 | 137.3 | 138.7 | 138.7 | 137.3 | 137.3 |
| 77.5° | 87.1 | 91.5 | 94.5 | 101.8 | 107.7 | 110.7 | 113.6 | 113.6 | 113.6 | 113.6 |
| 80° | 66.4 | 69.4 | 72.3 | 78.2 | 82.6 | 87.1 | 90.0 | 91.5 | 91.5 | 91.5 |
| 82.5° | 47.2 | 50.2 | 51.7 | 57.6 | 62.0 | 66.4 | 69.4 | 72.3 | 72.3 | 72.3 |
| 85° | 28.0 | 31.0 | 33.9 | 39.8 | 44.3 | 48.7 | 53.1 | 54.6 | 56.1 | 56.1 |
| 87.5° | 11.8 | 16.2 | 19.2 | 25.1 | 31.0 | 35.4 | 38.4 | 39.8 | 41.3 | 41.3 |
| 90° | 1.5 | 5.9 | 10.3 | 14.8 | 19.2 | 23.6 | 26.6 | 28.0 | 29.5 | 29.5 |
| 92.5° | 5.9 | 7.4 | 8.9 | 11.8 | 16.2 | 20.7 | 25.1 | 26.6 | 29.5 | 29.5 |
| 95° | 14.8 | 17.7 | 16.2 | 16.2 | 19.2 | 31.0 | 42.8 | 48.7 | 53.1 | 54.6 |
| 97.5° | 31.0 | 32.5 | 32.5 | 31.0 | 33.9 | 48.7 | 76.7 | 93.0 | 103.3 | 104.8 |
| 100° | 50.2 | 53.1 | 53.1 | 50.2 | 54.6 | 75.3 | 124.0 | 152.0 | 169.7 | 175.6 |
| 102.5° | 75.3 | 76.7 | 78.2 | 72.3 | 76.7 | 106.3 | 171.2 | 218.4 | 245.0 | 252.4 |
| 105° | 100.4 | 103.3 | 103.3 | 95.9 | 100.4 | 137.3 | 209.6 | 278.9 | 317.3 | 332.1 |
| 107.5° | 125.4 | 128.4 | 126.9 | 118.1 | 122.5 | 168.2 | 239.1 | 326.2 | 377.8 | 392.6 |
| 110° | 149.1 | 152.0 | 149.1 | 141.7 | 146.1 | 196.3 | 259.7 | 363.1 | 422.1 | 444.2 |



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CATALOG NUMBER: I2-WS-2L35-1D-UNV-4-STD-DM5

CANDELA DISTRIBUTION (continued):

| | 0° | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 171.2 | 172.7 | 169.7 | 165.3 | 168.2 | 218.4 | 283.4 | 383.7 | 453.1 | 473.7 |
| 115° | 186.0 | 190.4 | 187.4 | 186.0 | 188.9 | 231.7 | 305.5 | 389.6 | 463.4 | 485.6 |
| 117.5° | 193.3 | 202.2 | 205.1 | 203.7 | 209.6 | 243.5 | 320.3 | 383.7 | 456.0 | 479.7 |
| 120° | 196.3 | 208.1 | 218.4 | 219.9 | 225.8 | 253.8 | 324.7 | 382.2 | 433.9 | 456.0 |
| 122.5° | 202.2 | 209.6 | 227.3 | 231.7 | 240.6 | 262.7 | 323.2 | 377.8 | 419.1 | 430.9 |
| 125° | 208.1 | 211.0 | 227.3 | 239.1 | 252.4 | 276.0 | 321.7 | 373.4 | 405.9 | 413.2 |
| 127.5° | 212.5 | 216.9 | 227.3 | 242.0 | 261.2 | 284.8 | 317.3 | 369.0 | 394.1 | 404.4 |
| 130° | 216.9 | 221.4 | 231.7 | 246.5 | 264.2 | 289.3 | 315.8 | 355.7 | 389.6 | 398.5 |
| 132.5° | 221.4 | 227.3 | 237.6 | 250.9 | 268.6 | 289.3 | 309.9 | 335.0 | 363.1 | 369.0 |
| 135° | 227.3 | 233.2 | 242.0 | 255.3 | 271.6 | 289.3 | 309.9 | 324.7 | 340.9 | 349.8 |
| 137.5° | 231.7 | 237.6 | 245.0 | 259.7 | 273.0 | 284.8 | 301.1 | 318.8 | 332.1 | 339.4 |
| 140° | 236.1 | 242.0 | 249.4 | 262.7 | 274.5 | 283.4 | 292.2 | 301.1 | 311.4 | 318.8 |
| 142.5° | 239.1 | 245.0 | 252.4 | 264.2 | 276.0 | 281.9 | 287.8 | 292.2 | 296.6 | 298.1 |
| 145° | 243.5 | 247.9 | 255.3 | 264.2 | 277.5 | 283.4 | 287.8 | 290.7 | 293.7 | 293.7 |
| 147.5° | 246.5 | 249.4 | 256.8 | 264.2 | 277.5 | 284.8 | 287.8 | 290.7 | 292.2 | 293.7 |
| 150° | 247.9 | 250.9 | 256.8 | 264.2 | 276.0 | 284.8 | 287.8 | 290.7 | 290.7 | 292.2 |
| 152.5° | 250.9 | 252.4 | 258.3 | 264.2 | 273.0 | 283.4 | 286.3 | 289.3 | 292.2 | 292.2 |
| 155° | 252.4 | 253.8 | 258.3 | 262.7 | 270.1 | 280.4 | 284.8 | 287.8 | 289.3 | 290.7 |
| 157.5° | 253.8 | 255.3 | 259.7 | 262.7 | 268.6 | 276.0 | 281.9 | 284.8 | 287.8 | 287.8 |
| 160° | 255.3 | 256.8 | 259.7 | 262.7 | 267.1 | 270.1 | 274.5 | 278.9 | 281.9 | 281.9 |
| 162.5° | 256.8 | 258.3 | 261.2 | 262.7 | 265.7 | 268.6 | 270.1 | 270.1 | 273.0 | 273.0 |
| 165° | 256.8 | 258.3 | 261.2 | 262.7 | 264.2 | 267.1 | 267.1 | 267.1 | 267.1 | 267.1 |
| 167.5° | 256.8 | 258.3 | 259.7 | 261.2 | 264.2 | 265.7 | 265.7 | 265.7 | 265.7 | 265.7 |
| 170° | 258.3 | 258.3 | 259.7 | 261.2 | 262.7 | 264.2 | 262.7 | 262.7 | 262.7 | 262.7 |
| 172.5° | 256.8 | 256.8 | 258.3 | 259.7 | 261.2 | 261.2 | 261.2 | 259.7 | 259.7 | 258.3 |
| 175° | 256.8 | 256.8 | 256.8 | 256.8 | 258.3 | 259.7 | 258.3 | 256.8 | 255.3 | 253.8 |
| 177.5° | 256.8 | 256.8 | 255.3 | 255.3 | 255.3 | 255.3 | 253.8 | 252.4 | 250.9 | 249.4 |
| 180° | 252.4 | 252.4 | 252.4 | 252.4 | 252.4 | 252.4 | 252.4 | 252.4 | 252.4 | 252.4 |

(END OF REPORT)