

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

Brand: CORELITE

Report Number: P709288

Luminaire Tested: DL2W-BB-M-OU-125D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P709288  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: DL2W-BB-M-0U-125D-940-UNV-STD-W-WM-4  
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5285.5 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.17  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Direct

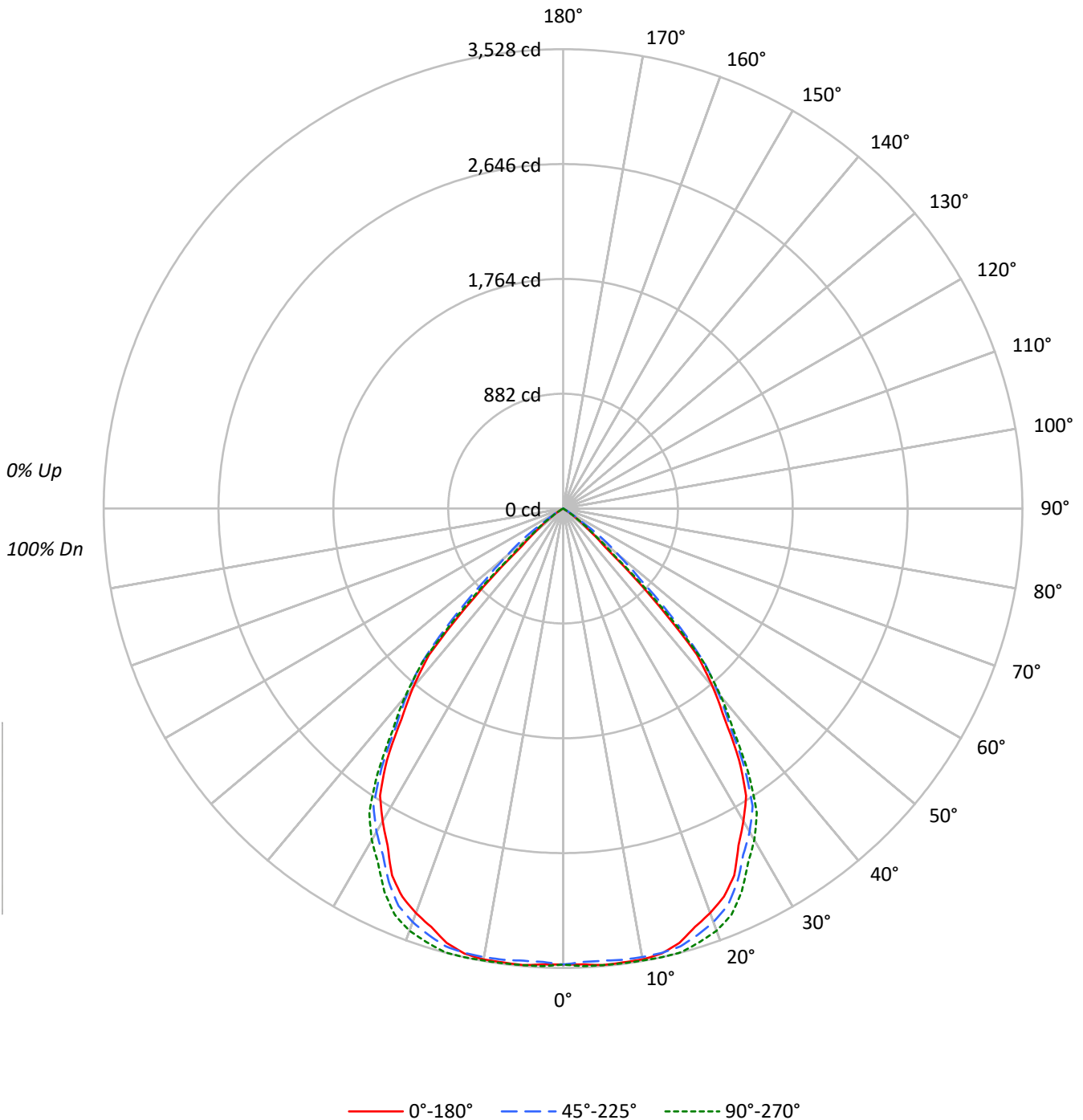
Input Watts (W): 49.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P709288

CATALOG NUMBER: DL2W-BB-M-0U-125D-940-UNV-STD-W-WM-4

### Luminous Intensity Polar Plot



TEST NUMBER: P709288

CATALOG NUMBER: DL2W-BB-M-0U-125D-940-UNV-STD-W-WM-4

**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   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98  | 97  | 96  | 95  | 94  | 92  |
| 2   | 106 | 101 | 96  | 93  | 104 | 99  | 95  | 91  | 96  | 92  | 89  | 93  | 90  | 88  | 90  | 88  | 86  | 84  |
| 3   | 100 | 93  | 87  | 83  | 98  | 91  | 86  | 82  | 89  | 84  | 81  | 86  | 82  | 79  | 84  | 81  | 78  | 76  |
| 4   | 94  | 85  | 79  | 74  | 92  | 84  | 78  | 74  | 82  | 77  | 73  | 80  | 75  | 72  | 78  | 74  | 71  | 69  |
| 5   | 88  | 79  | 72  | 67  | 86  | 78  | 71  | 67  | 76  | 70  | 66  | 74  | 69  | 66  | 72  | 68  | 65  | 63  |
| 6   | 83  | 73  | 66  | 61  | 81  | 72  | 65  | 61  | 70  | 65  | 60  | 69  | 64  | 60  | 67  | 63  | 59  | 58  |
| 7   | 78  | 67  | 60  | 56  | 76  | 67  | 60  | 55  | 65  | 59  | 55  | 64  | 59  | 55  | 63  | 58  | 55  | 53  |
| 8   | 73  | 62  | 56  | 51  | 72  | 62  | 55  | 51  | 61  | 55  | 51  | 60  | 54  | 50  | 59  | 54  | 50  | 49  |
| 9   | 69  | 58  | 51  | 47  | 68  | 58  | 51  | 47  | 57  | 51  | 47  | 56  | 50  | 46  | 55  | 50  | 46  | 45  |
| 10  | 65  | 54  | 48  | 43  | 64  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 51  | 46  | 43  | 41  |

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

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 56530 | 56530 | 56530 | 56530 | 56530 |
| 5°  | 57037 | 56485 | 57037 | 56485 | 57037 |
| 10° | 57645 | 57338 | 57766 | 57338 | 57645 |
| 15° | 57710 | 58190 | 58930 | 58190 | 57710 |
| 20° | 56778 | 58050 | 59268 | 58050 | 56778 |
| 25° | 55383 | 56396 | 57833 | 56396 | 55383 |
| 30° | 51648 | 53421 | 54764 | 53421 | 51648 |
| 35° | 46493 | 47877 | 48975 | 47877 | 46493 |
| 40° | 37700 | 39253 | 39884 | 39253 | 37700 |
| 45° | 21932 | 27443 | 24345 | 27443 | 21932 |
| 50° | 6988  | 14164 | 7945  | 14164 | 6988  |
| 55° | 2798  | 4933  | 2711  | 4933  | 2798  |
| 60° | 68    | 1355  | 203   | 1355  | 68    |
| 65° | 0     | 73    | 42    | 73    | 0     |
| 70° | 0     | 45    | 0     | 45    | 0     |
| 75° | 0     | 0     | 0     | 0     | 0     |
| 80° | 0     | 0     | 0     | 0     | 0     |
| 85° | 0     | 0     | 0     | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 60°  
 Vertical Angle: 45°  
 Luminance: 27663 cd/sqm

TEST NUMBER: P709288

CATALOG NUMBER: DL2W-BB-M-0U-125D-940-UNV-STD-W-WM-4

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 335.1  | 6.3       |
| 10°-20°   | 983.9  | 18.6      |
| 20°-30°   | 1454.1 | 27.5      |
| 30°-40°   | 1494.4 | 28.3      |
| 40°-50°   | 863.1  | 16.3      |
| 50°-60°   | 149.3  | 2.8       |
| 60°-70°   | 5.6    | 0.1       |
| 70°-80°   | 0.1    | 0.0       |
| 80°-90°   | 0.0    | 0.0       |
| 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°    | 2773.1 | 52.5      |
| 0°-40°    | 4267.4 | 80.7      |
| 0°-60°    | 5279.9 | 99.9      |
| 0°-90°    | 5285.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5285.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 3501 | 3501 | 3501 | 3501 | 3501 |      |
| 5°  | 3519 | 3485 | 3519 | 3485 | 3519 | 336  |
| 15° | 3452 | 3481 | 3526 | 3481 | 3452 | 970  |
| 25° | 3109 | 3166 | 3246 | 3166 | 3109 | 1415 |
| 35° | 2359 | 2429 | 2485 | 2429 | 2359 | 1447 |
| 45° | 960  | 1202 | 1066 | 1202 | 960  | 747  |
| 55° | 99   | 175  | 96   | 175  | 99   | 101  |
| 65° | 0    | 2    | 1    | 2    | 0    | 1    |
| 75° | 0    | 0    | 0    | 0    | 0    | 0    |
| 85° | 0    | 0    | 0    | 0    | 0    | 0    |
| 90° | 0    | 0    | 0    | 0    | 0    |      |

TEST NUMBER: P709288

CATALOG NUMBER: DL2W-BB-M-OU-125D-940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 10°    | 20°    | 30°    | 40°    | 50°    | 60°    | 70°    | 80°    | 90°    | 100°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3501.2 | 3501.2 | 3501.2 | 3501.2 | 3501.2 | 3501.2 | 3501.2 | 3501.2 | 3501.2 | 3501.2 | 3501.2 |
| 2.5°  | 3503.7 | 3507.1 | 3510.5 | 3500.6 | 3486.4 | 3485.4 | 3497.8 | 3508.3 | 3512.8 | 3517.3 | 3512.8 |
| 5°    | 3519.2 | 3522.5 | 3525.8 | 3509.7 | 3487.1 | 3483.1 | 3497.7 | 3509.8 | 3514.5 | 3519.2 | 3514.5 |
| 7.5°  | 3516.0 | 3521.3 | 3526.5 | 3514.5 | 3496.8 | 3494.1 | 3506.6 | 3516.7 | 3519.7 | 3522.6 | 3519.7 |
| 10°   | 3516.0 | 3519.8 | 3523.5 | 3512.8 | 3497.3 | 3497.3 | 3512.8 | 3524.4 | 3523.9 | 3523.4 | 3523.9 |
| 12.5° | 3499.9 | 3506.3 | 3512.7 | 3504.9 | 3492.4 | 3497.9 | 3521.3 | 3537.7 | 3533.1 | 3528.5 | 3533.1 |
| 15°   | 3452.5 | 3463.8 | 3475.1 | 3475.8 | 3473.0 | 3489.5 | 3525.2 | 3549.0 | 3537.3 | 3525.5 | 3537.3 |
| 17.5° | 3368.8 | 3382.9 | 3397.0 | 3408.6 | 3419.4 | 3447.8 | 3493.7 | 3523.8 | 3506.9 | 3490.0 | 3506.9 |
| 20°   | 3304.5 | 3318.6 | 3332.7 | 3347.1 | 3361.7 | 3395.3 | 3448.0 | 3483.2 | 3466.3 | 3449.4 | 3466.3 |
| 22.5° | 3226.6 | 3239.6 | 3252.6 | 3267.9 | 3283.9 | 3320.2 | 3376.6 | 3414.3 | 3395.9 | 3377.4 | 3395.9 |
| 25°   | 3108.8 | 3113.9 | 3119.1 | 3132.4 | 3148.4 | 3182.9 | 3236.1 | 3272.6 | 3259.4 | 3246.3 | 3259.4 |
| 27.5° | 2917.5 | 2929.7 | 2941.8 | 2960.5 | 2981.5 | 3012.5 | 3053.5 | 3083.1 | 3078.4 | 3073.7 | 3078.4 |
| 30°   | 2770.3 | 2787.7 | 2805.1 | 2827.4 | 2851.4 | 2879.4 | 2911.3 | 2935.5 | 2936.5 | 2937.4 | 2936.5 |
| 32.5° | 2616.3 | 2634.0 | 2651.8 | 2673.1 | 2695.6 | 2723.0 | 2755.3 | 2778.4 | 2773.7 | 2769.0 | 2773.7 |
| 35°   | 2358.8 | 2372.5 | 2386.1 | 2401.8 | 2418.3 | 2439.7 | 2466.0 | 2485.6 | 2485.2 | 2484.7 | 2485.2 |
| 37.5° | 2039.2 | 2046.9 | 2054.6 | 2073.3 | 2095.7 | 2115.9 | 2134.1 | 2148.3 | 2150.6 | 2153.0 | 2150.6 |
| 40°   | 1788.7 | 1797.1 | 1805.6 | 1826.8 | 1852.1 | 1872.6 | 1888.1 | 1898.9 | 1895.6 | 1892.3 | 1895.6 |
| 42.5° | 1523.0 | 1533.3 | 1543.7 | 1568.7 | 1598.6 | 1619.2 | 1630.6 | 1633.7 | 1612.0 | 1590.2 | 1612.0 |
| 45°   | 960.5  | 1043.7 | 1126.9 | 1167.8 | 1194.6 | 1209.1 | 1211.5 | 1196.9 | 1131.6 | 1066.2 | 1131.6 |
| 47.5° | 438.1  | 535.8  | 633.5  | 716.5  | 794.7  | 810.6  | 764.3  | 709.2  | 627.4  | 545.6  | 627.4  |
| 50°   | 278.2  | 305.9  | 333.7  | 431.9  | 553.7  | 574.1  | 493.3  | 419.7  | 368.0  | 316.3  | 368.0  |
| 52.5° | 185.1  | 201.2  | 217.3  | 293.1  | 389.0  | 396.6  | 316.1  | 249.6  | 225.0  | 200.3  | 225.0  |
| 55°   | 99.4   | 104.1  | 108.8  | 137.9  | 175.0  | 175.5  | 139.3  | 110.4  | 103.3  | 96.3   | 103.3  |
| 57.5° | 37.7   | 44.8   | 51.9   | 64.5   | 78.7   | 78.5   | 63.7   | 50.7   | 42.9   | 35.1   | 42.9   |
| 60°   | 2.1    | 7.8    | 13.4   | 26.1   | 41.1   | 42.8   | 31.0   | 20.5   | 13.4   | 6.3    | 13.4   |
| 62.5° | 1.3    | 2.4    | 3.5    | 12.0   | 22.9   | 23.4   | 13.5   | 5.7    | 3.9    | 2.1    | 3.9    |
| 65°   | 0.0    | 0.5    | 0.9    | 1.4    | 1.9    | 1.9    | 1.4    | 1.1    | 1.1    | 1.1    | 1.1    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.4    | 0.8    | 1.1    | 1.1    | 0.9    | 0.5    | 0.0    | 0.5    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.4    | 0.8    | 1.1    | 1.1    | 0.9    | 0.5    | 0.0    | 0.5    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.1    | 0.2    | 0.2    | 0.2    | 0.2    | 0.1    | 0.0    | 0.1    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 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    |

TEST NUMBER: P709288

CATALOG NUMBER: DL2W-BB-M-OU-125D-940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

|       | 110°   | 120°   | 130°   | 140°   | 150°   | 160°   | 170°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3501.2 | 3501.2 | 3501.2 | 3501.2 | 3501.2 | 3501.2 | 3501.2 | 3501.2 |
| 2.5°  | 3508.3 | 3497.8 | 3485.4 | 3486.4 | 3500.6 | 3510.5 | 3507.1 | 3503.7 |
| 5°    | 3509.8 | 3497.7 | 3483.1 | 3487.1 | 3509.7 | 3525.8 | 3522.5 | 3519.2 |
| 7.5°  | 3516.7 | 3506.6 | 3494.1 | 3496.8 | 3514.5 | 3526.5 | 3521.3 | 3516.0 |
| 10°   | 3524.4 | 3512.8 | 3497.3 | 3497.3 | 3512.8 | 3523.5 | 3519.8 | 3516.0 |
| 12.5° | 3537.7 | 3521.3 | 3497.9 | 3492.4 | 3504.9 | 3512.7 | 3506.3 | 3499.9 |
| 15°   | 3549.0 | 3525.2 | 3489.5 | 3473.0 | 3475.8 | 3475.1 | 3463.8 | 3452.5 |
| 17.5° | 3523.8 | 3493.7 | 3447.8 | 3419.4 | 3408.6 | 3397.0 | 3382.9 | 3368.8 |
| 20°   | 3483.2 | 3448.0 | 3395.3 | 3361.7 | 3347.1 | 3332.7 | 3318.6 | 3304.5 |
| 22.5° | 3414.3 | 3376.6 | 3320.2 | 3283.9 | 3267.9 | 3252.6 | 3239.6 | 3226.6 |
| 25°   | 3272.6 | 3236.1 | 3182.9 | 3148.4 | 3132.4 | 3119.1 | 3113.9 | 3108.8 |
| 27.5° | 3083.1 | 3053.5 | 3012.5 | 2981.5 | 2960.5 | 2941.8 | 2929.7 | 2917.5 |
| 30°   | 2935.5 | 2911.3 | 2879.4 | 2851.4 | 2827.4 | 2805.1 | 2787.7 | 2770.3 |
| 32.5° | 2778.4 | 2755.3 | 2723.0 | 2695.6 | 2673.1 | 2651.8 | 2634.0 | 2616.3 |
| 35°   | 2485.6 | 2466.0 | 2439.7 | 2418.3 | 2401.8 | 2386.1 | 2372.5 | 2358.8 |
| 37.5° | 2148.3 | 2134.1 | 2115.9 | 2095.7 | 2073.3 | 2054.6 | 2046.9 | 2039.2 |
| 40°   | 1898.9 | 1888.1 | 1872.6 | 1852.1 | 1826.8 | 1805.6 | 1797.1 | 1788.7 |
| 42.5° | 1633.7 | 1630.6 | 1619.2 | 1598.6 | 1568.7 | 1543.7 | 1533.3 | 1523.0 |
| 45°   | 1196.9 | 1211.5 | 1209.1 | 1194.6 | 1167.8 | 1126.9 | 1043.7 | 960.5  |
| 47.5° | 709.2  | 764.3  | 810.6  | 794.7  | 716.5  | 633.5  | 535.8  | 438.1  |
| 50°   | 419.7  | 493.3  | 574.1  | 553.7  | 431.9  | 333.7  | 305.9  | 278.2  |
| 52.5° | 249.6  | 316.1  | 396.6  | 389.0  | 293.1  | 217.3  | 201.2  | 185.1  |
| 55°   | 110.4  | 139.3  | 175.5  | 175.0  | 137.9  | 108.8  | 104.1  | 99.4   |
| 57.5° | 50.7   | 63.7   | 78.5   | 78.7   | 64.5   | 51.9   | 44.8   | 37.7   |
| 60°   | 20.5   | 31.0   | 42.8   | 41.1   | 26.1   | 13.4   | 7.8    | 2.1    |
| 62.5° | 5.7    | 13.5   | 23.4   | 22.9   | 12.0   | 3.5    | 2.4    | 1.3    |
| 65°   | 1.1    | 1.4    | 1.9    | 1.9    | 1.4    | 0.9    | 0.5    | 0.0    |
| 67.5° | 0.9    | 1.1    | 1.1    | 0.8    | 0.4    | 0.0    | 0.0    | 0.0    |
| 70°   | 0.9    | 1.1    | 1.1    | 0.8    | 0.4    | 0.0    | 0.0    | 0.0    |
| 72.5° | 0.2    | 0.2    | 0.2    | 0.2    | 0.1    | 0.0    | 0.0    | 0.0    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 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    |

(END OF REPORT)