

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: LUMIERE

Report Number: P394889

Luminaire Tested: **303-A1-LEDB1-4000-UNV-T4-DIM10**

Issue Date: 4/9/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P394889  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2001-660-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/9/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 303-A1-LEDB1-4000-UNV-T4-DIM10  
Description: LUMIERE EON LED LUMINAIRE  
ACCENT GROUND MOUNT, ONE LIGHTBAR, TYPE 4  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

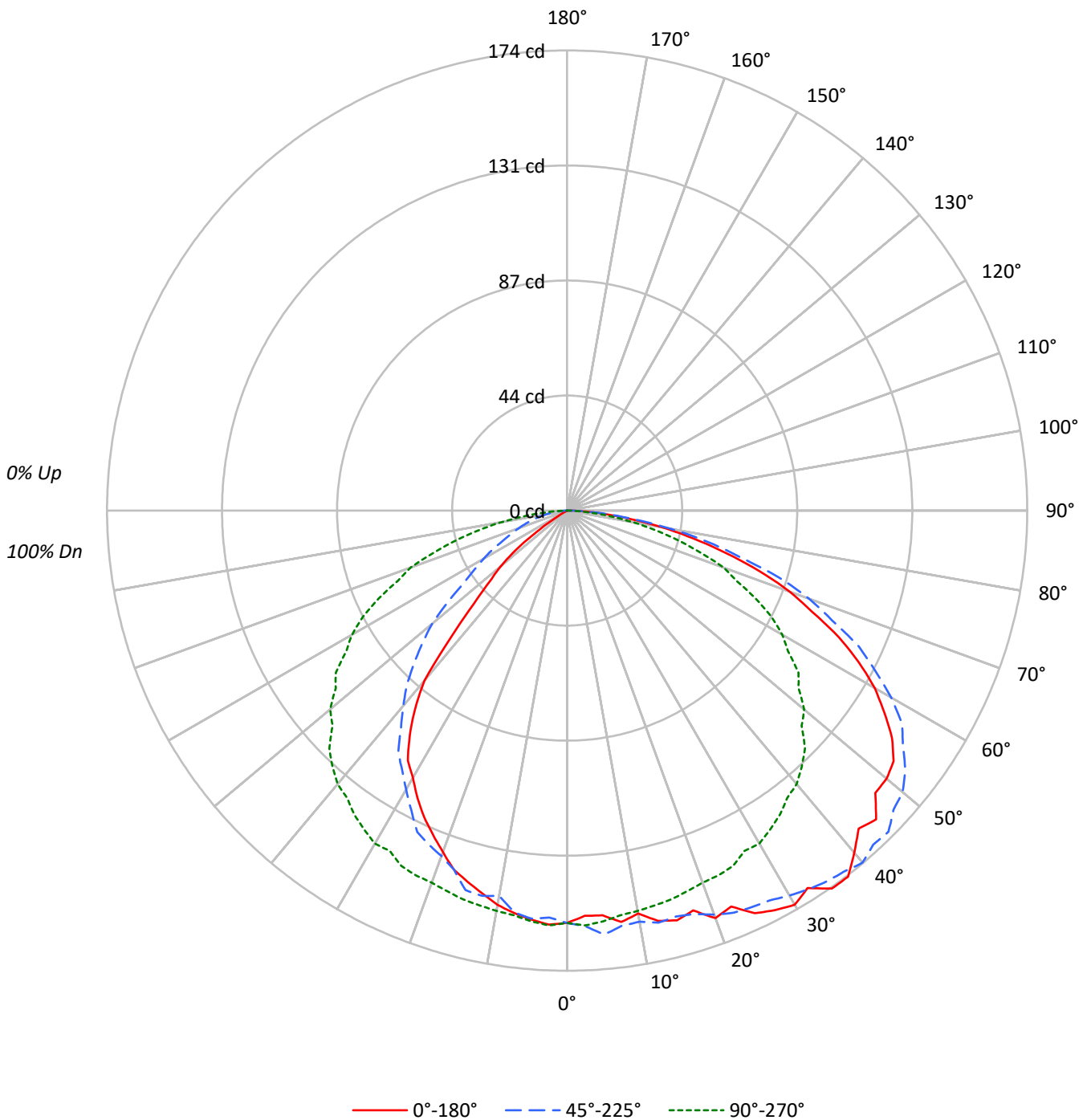
Lumens per Lamp: N/A  
Luminaire Lumens: 517.5 lumens  
Efficiency: N/A  
Efficacy: 62.4 lumens/watt  
Spacing Criteria (0/90/45): 1.38 / 1.39 / 1.52  
Luminous Opening: Rectangular (W 0.38' x L: 0.21' x H: 0')  
CIE Type: Direct

Input Watts (W): 8.3  
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



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### Luminous Intensity Polar Plot





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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   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 93  | 97  | 93  | 90  |  | 93  | 90  | 88  |  | 89  | 87  | 85  | 83  |
| 2   | 98  | 89  | 82  | 76  | 95  | 88  | 81  | 75  | 84  | 78  | 74  |  | 81  | 76  | 72  |  | 78  | 74  | 70  | 68  |
| 3   | 89  | 78  | 70  | 63  | 86  | 76  | 69  | 62  | 73  | 67  | 61  |  | 71  | 65  | 60  |  | 68  | 63  | 59  | 57  |
| 4   | 81  | 69  | 60  | 53  | 79  | 67  | 59  | 52  | 65  | 57  | 52  |  | 63  | 56  | 51  |  | 60  | 55  | 50  | 48  |
| 5   | 74  | 61  | 52  | 45  | 72  | 60  | 51  | 45  | 58  | 50  | 44  |  | 56  | 49  | 44  |  | 54  | 48  | 43  | 41  |
| 6   | 69  | 55  | 46  | 39  | 67  | 54  | 45  | 39  | 52  | 44  | 38  |  | 50  | 43  | 38  |  | 49  | 43  | 38  | 36  |
| 7   | 63  | 50  | 41  | 34  | 62  | 49  | 40  | 34  | 47  | 39  | 34  |  | 46  | 39  | 34  |  | 44  | 38  | 33  | 31  |
| 8   | 59  | 45  | 36  | 30  | 57  | 44  | 36  | 30  | 43  | 35  | 30  |  | 42  | 35  | 30  |  | 41  | 34  | 30  | 28  |
| 9   | 55  | 41  | 33  | 27  | 54  | 41  | 33  | 27  | 39  | 32  | 27  |  | 38  | 32  | 27  |  | 37  | 31  | 27  | 25  |
| 10  | 52  | 38  | 30  | 25  | 50  | 37  | 30  | 24  | 36  | 29  | 24  |  | 35  | 29  | 24  |  | 35  | 28  | 24  | 22  |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 21480 | 21480 | 21480 |
| 5°  | 21244 | 21562 | 21479 |
| 10° | 21643 | 21503 | 21181 |
| 15° | 22879 | 21710 | 20725 |
| 20° | 24046 | 21949 | 20146 |
| 25° | 25540 | 22545 | 19444 |
| 30° | 27380 | 23132 | 18550 |
| 35° | 29350 | 23598 | 17459 |
| 40° | 30378 | 24281 | 15108 |
| 45° | 32189 | 24785 | 9723  |
| 50° | 33802 | 25078 | 6988  |
| 55° | 36031 | 25654 | 3339  |
| 60° | 37007 | 25902 | 83    |
| 65° | 37002 | 25592 | 0     |
| 70° | 36054 | 25338 | 0     |
| 75° | 33164 | 23157 | 0     |
| 80° | 29040 | 19915 | 0     |
| 85° | 20867 | 13437 | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 14.8   | 2.9       |
| 10°-20°   | 43.3   | 8.4       |
| 20°-30°   | 68.6   | 13.3      |
| 30°-40°   | 88.0   | 17.0      |
| 40°-50°   | 94.4   | 18.2      |
| 50°-60°   | 87.5   | 16.9      |
| 60°-70°   | 69.6   | 13.4      |
| 70°-80°   | 41.2   | 8.0       |
| 80°-90°   | 10.1   | 2.0       |
| 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°    | 126.8  | 24.5      |
| 0°-40°    | 214.8  | 41.5      |
| 0°-60°    | 396.6  | 76.6      |
| 0°-90°    | 517.5  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 517.5  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 156 | 156 | 156 | 156  | 156  |      |
| 5°  | 154 | 161 | 156 | 155  | 155  | 15   |
| 15° | 160 | 159 | 152 | 149  | 145  | 45   |
| 25° | 168 | 165 | 148 | 134  | 128  | 77   |
| 35° | 174 | 171 | 140 | 111  | 104  | 108  |
| 45° | 165 | 172 | 127 | 82   | 50   | 126  |
| 55° | 150 | 155 | 107 | 47   | 14   | 133  |
| 65° | 114 | 122 | 78  | 26   | 0    | 111  |
| 75° | 62  | 67  | 44  | 14   | 0    | 66   |
| 85° | 13  | 15  | 8   | 3    | 0    | 17   |
| 90° | 0   | 0   | 0   | 0    | 0    |      |



TEST NUMBER: P394889

CATALOG NUMBER: 303-A1-LEDB1-4000-UNV-T4-DIM10

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   | 90°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 155.9 | 155.9 | 155.9 | 155.9 | 155.9 | 155.9 | 155.9 | 155.9 | 155.9 | 155.9 | 155.9 |
| 2.5°  | 153.4 | 156.4 | 156.3 | 155.0 | 154.1 | 157.3 | 153.9 | 157.1 | 156.2 | 156.0 | 157.0 |
| 5°    | 153.6 | 158.9 | 157.1 | 158.3 | 155.9 | 160.9 | 156.2 | 157.8 | 152.7 | 157.0 | 155.9 |
| 7.5°  | 156.9 | 159.2 | 157.7 | 159.2 | 154.7 | 158.4 | 156.5 | 157.9 | 158.3 | 155.8 | 154.3 |
| 10°   | 154.7 | 160.1 | 158.6 | 157.7 | 157.2 | 157.8 | 155.1 | 157.5 | 158.1 | 155.4 | 153.7 |
| 12.5° | 158.9 | 161.4 | 159.3 | 160.6 | 155.8 | 159.6 | 157.5 | 157.7 | 156.0 | 154.8 | 152.9 |
| 15°   | 160.4 | 161.0 | 161.2 | 162.4 | 158.5 | 158.9 | 158.1 | 157.8 | 156.1 | 154.1 | 152.2 |
| 17.5° | 158.5 | 164.2 | 162.2 | 161.9 | 160.6 | 159.9 | 158.9 | 158.1 | 157.7 | 154.2 | 150.9 |
| 20°   | 164.0 | 165.9 | 164.4 | 163.5 | 161.3 | 162.6 | 159.9 | 159.0 | 154.3 | 152.5 | 149.7 |
| 22.5° | 162.0 | 166.0 | 165.9 | 166.5 | 164.2 | 164.6 | 159.9 | 159.7 | 155.3 | 151.4 | 149.3 |
| 25°   | 168.0 | 169.9 | 167.7 | 167.4 | 164.2 | 165.4 | 160.4 | 159.5 | 154.5 | 150.2 | 148.3 |
| 27.5° | 170.3 | 172.0 | 171.0 | 171.6 | 168.6 | 166.1 | 163.7 | 162.4 | 154.8 | 149.6 | 145.1 |
| 30°   | 172.1 | 175.2 | 174.4 | 173.0 | 169.5 | 168.1 | 165.4 | 162.9 | 157.8 | 148.6 | 145.4 |
| 32.5° | 169.2 | 175.0 | 172.1 | 173.2 | 172.8 | 169.7 | 165.8 | 162.4 | 157.9 | 149.5 | 142.9 |
| 35°   | 174.5 | 173.5 | 173.9 | 175.8 | 172.9 | 171.2 | 168.7 | 164.3 | 157.8 | 148.0 | 140.3 |
| 37.5° | 174.5 | 175.6 | 173.1 | 176.2 | 173.4 | 172.0 | 167.4 | 162.5 | 156.8 | 143.7 | 136.8 |
| 40°   | 168.9 | 172.0 | 172.8 | 175.6 | 174.8 | 173.8 | 169.3 | 163.1 | 155.0 | 141.3 | 135.0 |
| 42.5° | 163.1 | 170.4 | 168.4 | 173.1 | 174.4 | 171.3 | 168.6 | 159.6 | 152.5 | 138.1 | 131.3 |
| 45°   | 165.2 | 169.8 | 169.4 | 172.5 | 171.0 | 171.8 | 166.9 | 159.0 | 147.3 | 135.9 | 127.2 |
| 47.5° | 158.0 | 166.4 | 164.3 | 169.6 | 169.0 | 167.4 | 164.3 | 155.3 | 144.8 | 129.3 | 120.3 |
| 50°   | 157.7 | 160.5 | 161.6 | 164.3 | 166.8 | 165.6 | 158.7 | 154.8 | 139.8 | 123.2 | 117.0 |
| 52.5° | 155.6 | 154.1 | 156.3 | 159.1 | 161.0 | 161.2 | 154.0 | 144.7 | 134.8 | 120.5 | 110.3 |
| 55°   | 150.0 | 148.7 | 150.6 | 153.3 | 157.9 | 155.0 | 151.6 | 140.3 | 127.8 | 112.7 | 106.8 |
| 57.5° | 142.2 | 140.5 | 141.6 | 146.6 | 151.0 | 150.1 | 145.2 | 134.4 | 125.7 | 108.5 | 99.0  |
| 60°   | 134.3 | 132.9 | 132.1 | 137.9 | 140.4 | 141.5 | 136.5 | 125.4 | 115.2 | 100.5 | 94.0  |
| 62.5° | 124.4 | 125.9 | 126.6 | 129.1 | 131.4 | 131.4 | 128.7 | 116.9 | 106.3 | 93.1  | 87.1  |
| 65°   | 113.5 | 112.1 | 113.3 | 119.5 | 122.6 | 121.7 | 120.0 | 107.6 | 97.4  | 85.1  | 78.5  |
| 67.5° | 100.4 | 100.5 | 104.0 | 106.1 | 111.2 | 108.4 | 106.7 | 97.8  | 86.3  | 76.3  | 69.2  |
| 70°   | 89.5  | 88.9  | 89.4  | 93.5  | 95.8  | 97.3  | 94.2  | 84.5  | 76.2  | 67.1  | 62.9  |
| 72.5° | 76.5  | 75.6  | 76.2  | 80.4  | 82.1  | 83.9  | 79.7  | 72.2  | 66.0  | 57.4  | 52.9  |
| 75°   | 62.3  | 62.4  | 63.6  | 64.9  | 68.7  | 67.2  | 66.0  | 59.8  | 53.1  | 46.5  | 43.5  |
| 77.5° | 49.0  | 49.2  | 50.2  | 52.2  | 54.0  | 54.2  | 52.9  | 46.9  | 41.2  | 36.4  | 34.1  |
| 80°   | 36.6  | 36.1  | 36.4  | 38.0  | 40.0  | 39.8  | 38.3  | 34.5  | 30.8  | 26.3  | 25.1  |
| 82.5° | 23.8  | 24.0  | 24.2  | 25.5  | 25.5  | 25.4  | 25.2  | 23.0  | 20.6  | 17.2  | 16.3  |
| 85°   | 13.2  | 13.5  | 14.0  | 13.9  | 14.4  | 14.8  | 13.6  | 12.3  | 10.5  | 9.6   | 8.5   |
| 87.5° | 6.1   | 5.8   | 5.9   | 5.5   | 5.6   | 5.4   | 4.8   | 4.2   | 3.7   | 3.0   | 2.7   |
| 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°    | 155.9 | 155.9 | 155.9 | 155.9 | 155.9 | 155.9 | 155.9 | 155.9 | 155.9 | 155.9 |
| 2.5°  | 156.1 | 158.0 | 156.8 | 155.3 | 154.0 | 155.4 | 155.6 | 154.1 | 154.6 | 156.7 |
| 5°    | 157.1 | 154.4 | 156.1 | 156.2 | 154.9 | 155.7 | 150.9 | 154.2 | 153.4 | 155.3 |
| 7.5°  | 155.1 | 156.5 | 154.7 | 154.7 | 153.2 | 154.1 | 153.1 | 152.2 | 154.3 | 153.5 |
| 10°   | 154.6 | 153.6 | 154.7 | 153.2 | 147.9 | 150.4 | 149.2 | 150.0 | 149.3 | 151.4 |
| 12.5° | 153.2 | 151.4 | 151.8 | 151.1 | 149.2 | 148.1 | 148.8 | 149.3 | 150.4 | 148.3 |
| 15°   | 152.2 | 150.9 | 149.7 | 149.9 | 148.6 | 145.8 | 142.5 | 144.3 | 143.4 | 145.3 |
| 17.5° | 150.8 | 148.7 | 148.3 | 145.1 | 142.3 | 144.1 | 142.7 | 141.1 | 140.0 | 142.4 |
| 20°   | 150.0 | 148.2 | 145.7 | 141.3 | 139.0 | 138.6 | 138.9 | 138.6 | 137.6 | 137.4 |
| 22.5° | 147.6 | 144.2 | 142.3 | 137.9 | 136.7 | 134.5 | 131.4 | 133.8 | 131.3 | 132.6 |
| 25°   | 145.8 | 141.7 | 139.5 | 135.6 | 134.1 | 129.9 | 129.2 | 126.0 | 127.1 | 127.9 |
| 27.5° | 145.0 | 140.5 | 134.9 | 129.7 | 127.7 | 124.7 | 124.7 | 121.6 | 122.2 | 122.6 |
| 30°   | 142.2 | 135.9 | 132.7 | 126.7 | 121.8 | 119.3 | 117.6 | 116.3 | 116.8 | 116.6 |
| 32.5° | 139.8 | 132.1 | 126.2 | 118.9 | 116.2 | 113.4 | 112.9 | 108.8 | 111.7 | 112.1 |
| 35°   | 136.9 | 128.2 | 121.2 | 113.2 | 111.3 | 107.0 | 106.1 | 103.6 | 103.1 | 103.8 |
| 37.5° | 134.8 | 123.6 | 116.3 | 107.5 | 103.2 | 101.0 | 99.1  | 94.9  | 93.6  | 94.4  |
| 40°   | 129.5 | 118.5 | 110.1 | 102.3 | 96.3  | 90.9  | 91.1  | 86.3  | 84.4  | 84.0  |
| 42.5° | 127.9 | 113.4 | 104.1 | 95.3  | 89.8  | 84.7  | 80.5  | 75.2  | 67.4  | 64.9  |
| 45°   | 120.5 | 108.5 | 96.3  | 87.4  | 81.9  | 75.7  | 66.9  | 52.0  | 50.0  | 49.9  |
| 47.5° | 115.4 | 102.6 | 89.9  | 81.5  | 74.2  | 65.9  | 52.3  | 43.0  | 40.3  | 39.7  |
| 50°   | 110.7 | 95.7  | 83.7  | 74.4  | 66.6  | 50.5  | 43.1  | 34.3  | 30.8  | 32.6  |
| 52.5° | 104.7 | 90.3  | 78.1  | 67.5  | 56.9  | 42.6  | 36.2  | 27.9  | 24.5  | 24.6  |
| 55°   | 99.4  | 85.4  | 73.5  | 61.4  | 47.4  | 36.7  | 29.3  | 20.1  | 14.7  | 13.9  |
| 57.5° | 93.6  | 79.6  | 68.5  | 55.2  | 41.5  | 30.8  | 21.4  | 9.6   | 5.7   | 5.8   |
| 60°   | 86.8  | 74.0  | 61.9  | 46.9  | 36.5  | 24.8  | 13.9  | 4.2   | 0.3   | 0.3   |
| 62.5° | 81.0  | 67.9  | 56.2  | 42.0  | 31.5  | 17.5  | 9.2   | 0.3   | 0.0   | 0.0   |
| 65°   | 74.1  | 61.6  | 50.8  | 37.5  | 26.5  | 14.8  | 7.1   | 0.7   | 0.0   | 0.0   |
| 67.5° | 65.7  | 55.2  | 45.1  | 33.1  | 22.8  | 12.5  | 6.7   | 1.1   | 0.0   | 0.0   |
| 70°   | 57.3  | 48.4  | 39.5  | 28.8  | 19.5  | 11.2  | 6.0   | 1.2   | 0.0   | 0.0   |
| 72.5° | 49.2  | 41.0  | 33.2  | 24.4  | 16.3  | 9.5   | 5.2   | 1.1   | 0.0   | 0.0   |
| 75°   | 39.9  | 33.7  | 27.4  | 20.1  | 13.5  | 7.8   | 4.2   | 0.9   | 0.0   | 0.0   |
| 77.5° | 30.9  | 26.2  | 22.3  | 15.8  | 10.8  | 6.2   | 3.3   | 0.7   | 0.0   | 0.0   |
| 80°   | 23.6  | 19.4  | 15.8  | 11.5  | 7.9   | 4.4   | 2.4   | 0.5   | 0.0   | 0.0   |
| 82.5° | 14.8  | 12.8  | 10.6  | 7.6   | 5.1   | 2.9   | 1.6   | 0.3   | 0.0   | 0.0   |
| 85°   | 8.2   | 6.9   | 6.0   | 4.3   | 3.0   | 1.7   | 0.9   | 0.2   | 0.0   | 0.0   |
| 87.5° | 2.8   | 2.4   | 2.1   | 1.6   | 1.1   | 0.6   | 0.3   | 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)