

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: P394893

Luminaire Tested: **303-W1-LEDB1-TSAM-UNV-T4-DIM10**

Issue Date: 4/9/2020

Test Information

Test Method: LM-79-2019
Report Number: P394893
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-W1-LEDB1-TSAM-UNV-T4-DIM10
Description: LUMIERE EON LED LUMINAIRE
WALL MOUNT, ONE LIGHTBAR, TYPE 4
Light Source: AMBER LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

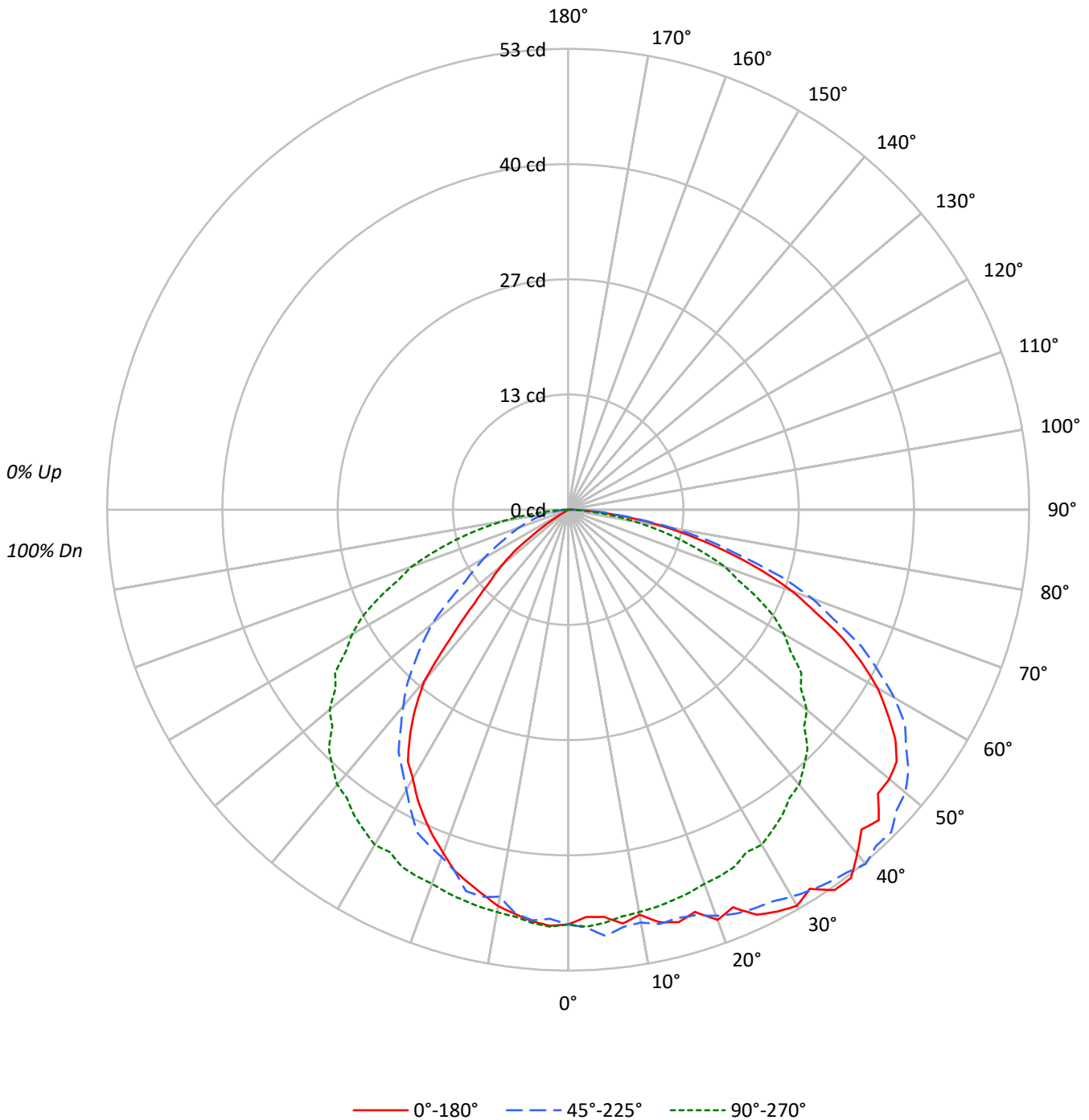
Lumens per Lamp: N/A
Luminaire Lumens: 158.2 lumens
Efficiency: N/A
Efficacy: 24.3 lumens/watt
Spacing Criteria (0/90/45): 1.38 / 1.39 / 1.52
Luminous Opening: Rectangular (W 0.38' x L: 0.21' x H: 0')
CIE Type: Direct

Input Watts (W): 6.5
Input Voltage (V): 120
Input Current (A_{in}): 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: P394893
CATALOG NUMBER: 303-W1-LEDB1-TSAM-UNV-T4-DIM10

Luminous Intensity Polar Plot





TEST NUMBER: P394893

CATALOG NUMBER: 303-W1-LEDB1-TSAM-UNV-T4-DIM10

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|------|------|
| 0° | 6572 | 6572 | 6572 |
| 5° | 6500 | 6597 | 6569 |
| 10° | 6617 | 6575 | 6478 |
| 15° | 7004 | 6633 | 6333 |
| 20° | 7360 | 6715 | 6158 |
| 25° | 7814 | 6887 | 5944 |
| 30° | 8368 | 7080 | 5680 |
| 35° | 8982 | 7216 | 5332 |
| 40° | 9299 | 7428 | 4622 |
| 45° | 9840 | 7580 | 2981 |
| 50° | 10331 | 7674 | 2143 |
| 55° | 11026 | 7855 | 1009 |
| 60° | 11325 | 7908 | 28 |
| 65° | 11313 | 7824 | 0 |
| 70° | 11038 | 7734 | 0 |
| 75° | 10168 | 7080 | 0 |
| 80° | 8886 | 6109 | 0 |
| 85° | 6323 | 4110 | 0 |



TEST NUMBER: P394893

CATALOG NUMBER: 303-W1-LEDB1-TSAM-UNV-T4-DIM10

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 4.5 | 2.9 |
| 10°-20° | 13.2 | 8.4 |
| 20°-30° | 21.0 | 13.3 |
| 30°-40° | 26.9 | 17.0 |
| 40°-50° | 28.9 | 18.2 |
| 50°-60° | 26.7 | 16.9 |
| 60°-70° | 21.3 | 13.4 |
| 70°-80° | 12.6 | 8.0 |
| 80°-90° | 3.1 | 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° | 38.8 | 24.5 |
| 0°-40° | 65.7 | 41.5 |
| 0°-60° | 121.3 | 76.6 |
| 0°-90° | 158.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 158.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|----|-----|-----|------|------|------|
| 0° | 48 | 48 | 48 | 48 | 48 | |
| 5° | 47 | 49 | 48 | 47 | 48 | 5 |
| 15° | 49 | 49 | 46 | 45 | 44 | 14 |
| 25° | 51 | 51 | 45 | 41 | 39 | 24 |
| 35° | 53 | 52 | 43 | 34 | 32 | 33 |
| 45° | 50 | 52 | 39 | 25 | 15 | 38 |
| 55° | 46 | 47 | 33 | 14 | 4 | 41 |
| 65° | 35 | 37 | 24 | 8 | 0 | 34 |
| 75° | 19 | 20 | 13 | 4 | 0 | 20 |
| 85° | 4 | 4 | 3 | 1 | 0 | 5 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P394893

CATALOG NUMBER: 303-W1-LEDB1-TSAM-UNV-T4-DIM10

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0° | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 |
| 2.5° | 46.9 | 47.8 | 47.8 | 47.4 | 47.1 | 48.1 | 47.0 | 48.0 | 47.8 | 47.7 | 48.0 |
| 5° | 47.0 | 48.6 | 48.0 | 48.4 | 47.7 | 49.2 | 47.8 | 48.2 | 46.7 | 48.0 | 47.7 |
| 7.5° | 48.0 | 48.7 | 48.2 | 48.7 | 47.3 | 48.4 | 47.9 | 48.3 | 48.4 | 47.6 | 47.2 |
| 10° | 47.3 | 49.0 | 48.5 | 48.2 | 48.1 | 48.2 | 47.4 | 48.2 | 48.3 | 47.5 | 47.0 |
| 12.5° | 48.6 | 49.4 | 48.7 | 49.1 | 47.6 | 48.8 | 48.2 | 48.2 | 47.7 | 47.3 | 46.8 |
| 15° | 49.1 | 49.2 | 49.3 | 49.7 | 48.5 | 48.6 | 48.3 | 48.2 | 47.7 | 47.1 | 46.5 |
| 17.5° | 48.5 | 50.2 | 49.6 | 49.5 | 49.1 | 48.9 | 48.6 | 48.3 | 48.2 | 47.2 | 46.2 |
| 20° | 50.2 | 50.7 | 50.3 | 50.0 | 49.3 | 49.7 | 48.9 | 48.6 | 47.2 | 46.6 | 45.8 |
| 22.5° | 49.5 | 50.8 | 50.7 | 50.9 | 50.2 | 50.3 | 48.9 | 48.8 | 47.5 | 46.3 | 45.6 |
| 25° | 51.4 | 52.0 | 51.3 | 51.2 | 50.2 | 50.6 | 49.1 | 48.8 | 47.3 | 45.9 | 45.3 |
| 27.5° | 52.1 | 52.6 | 52.3 | 52.5 | 51.6 | 50.8 | 50.1 | 49.7 | 47.3 | 45.7 | 44.4 |
| 30° | 52.6 | 53.6 | 53.3 | 52.9 | 51.8 | 51.4 | 50.6 | 49.8 | 48.2 | 45.4 | 44.5 |
| 32.5° | 51.7 | 53.5 | 52.6 | 53.0 | 52.9 | 51.9 | 50.7 | 49.7 | 48.3 | 45.7 | 43.7 |
| 35° | 53.4 | 53.1 | 53.2 | 53.7 | 52.9 | 52.3 | 51.6 | 50.2 | 48.2 | 45.3 | 42.9 |
| 37.5° | 53.4 | 53.7 | 52.9 | 53.9 | 53.0 | 52.6 | 51.2 | 49.7 | 47.9 | 43.9 | 41.8 |
| 40° | 51.7 | 52.6 | 52.9 | 53.7 | 53.5 | 53.2 | 51.8 | 49.9 | 47.4 | 43.2 | 41.3 |
| 42.5° | 49.9 | 52.1 | 51.5 | 52.9 | 53.3 | 52.4 | 51.6 | 48.8 | 46.6 | 42.2 | 40.1 |
| 45° | 50.5 | 51.9 | 51.8 | 52.8 | 52.3 | 52.5 | 51.0 | 48.6 | 45.0 | 41.5 | 38.9 |
| 47.5° | 48.3 | 50.9 | 50.2 | 51.9 | 51.7 | 51.2 | 50.2 | 47.5 | 44.3 | 39.5 | 36.8 |
| 50° | 48.2 | 49.1 | 49.4 | 50.2 | 51.0 | 50.6 | 48.5 | 47.3 | 42.7 | 37.7 | 35.8 |
| 52.5° | 47.6 | 47.1 | 47.8 | 48.7 | 49.2 | 49.3 | 47.1 | 44.2 | 41.2 | 36.8 | 33.7 |
| 55° | 45.9 | 45.5 | 46.1 | 46.9 | 48.3 | 47.4 | 46.4 | 42.9 | 39.1 | 34.5 | 32.7 |
| 57.5° | 43.5 | 43.0 | 43.3 | 44.8 | 46.2 | 45.9 | 44.4 | 41.1 | 38.4 | 33.2 | 30.3 |
| 60° | 41.1 | 40.6 | 40.4 | 42.2 | 42.9 | 43.3 | 41.8 | 38.3 | 35.2 | 30.7 | 28.7 |
| 62.5° | 38.0 | 38.5 | 38.7 | 39.5 | 40.2 | 40.2 | 39.4 | 35.7 | 32.5 | 28.5 | 26.7 |
| 65° | 34.7 | 34.3 | 34.6 | 36.6 | 37.5 | 37.2 | 36.7 | 32.9 | 29.8 | 26.0 | 24.0 |
| 67.5° | 30.7 | 30.7 | 31.8 | 32.5 | 34.0 | 33.1 | 32.6 | 29.9 | 26.4 | 23.3 | 21.1 |
| 70° | 27.4 | 27.2 | 27.3 | 28.6 | 29.3 | 29.8 | 28.8 | 25.8 | 23.3 | 20.5 | 19.2 |
| 72.5° | 23.4 | 23.1 | 23.3 | 24.6 | 25.1 | 25.7 | 24.4 | 22.1 | 20.2 | 17.6 | 16.2 |
| 75° | 19.1 | 19.1 | 19.4 | 19.9 | 21.0 | 20.5 | 20.2 | 18.3 | 16.2 | 14.2 | 13.3 |
| 77.5° | 15.0 | 15.0 | 15.3 | 16.0 | 16.5 | 16.6 | 16.2 | 14.4 | 12.6 | 11.1 | 10.4 |
| 80° | 11.2 | 11.0 | 11.1 | 11.6 | 12.2 | 12.2 | 11.7 | 10.6 | 9.4 | 8.0 | 7.7 |
| 82.5° | 7.3 | 7.3 | 7.4 | 7.8 | 7.8 | 7.8 | 7.7 | 7.0 | 6.3 | 5.3 | 5.0 |
| 85° | 4.0 | 4.1 | 4.3 | 4.2 | 4.4 | 4.5 | 4.2 | 3.8 | 3.2 | 2.9 | 2.6 |
| 87.5° | 1.9 | 1.8 | 1.8 | 1.7 | 1.7 | 1.6 | 1.5 | 1.3 | 1.1 | 0.9 | 0.8 |
| 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: P394893

CATALOG NUMBER: 303-W1-LEDB1-TSAM-UNV-T4-DIM10

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|------|------|------|------|------|------|------|------|------|------|
| 0° | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 |
| 2.5° | 47.7 | 48.3 | 47.9 | 47.5 | 47.1 | 47.5 | 47.6 | 47.1 | 47.3 | 47.9 |
| 5° | 48.0 | 47.2 | 47.7 | 47.8 | 47.4 | 47.6 | 46.2 | 47.2 | 46.9 | 47.5 |
| 7.5° | 47.4 | 47.9 | 47.3 | 47.3 | 46.8 | 47.1 | 46.8 | 46.5 | 47.2 | 46.9 |
| 10° | 47.3 | 47.0 | 47.3 | 46.8 | 45.2 | 46.0 | 45.6 | 45.9 | 45.6 | 46.3 |
| 12.5° | 46.8 | 46.3 | 46.4 | 46.2 | 45.6 | 45.3 | 45.5 | 45.6 | 46.0 | 45.3 |
| 15° | 46.5 | 46.2 | 45.8 | 45.9 | 45.4 | 44.6 | 43.6 | 44.1 | 43.8 | 44.4 |
| 17.5° | 46.1 | 45.5 | 45.3 | 44.4 | 43.5 | 44.1 | 43.6 | 43.2 | 42.8 | 43.5 |
| 20° | 45.9 | 45.3 | 44.6 | 43.2 | 42.5 | 42.4 | 42.5 | 42.4 | 42.1 | 42.0 |
| 22.5° | 45.1 | 44.1 | 43.5 | 42.2 | 41.8 | 41.1 | 40.2 | 40.9 | 40.1 | 40.6 |
| 25° | 44.6 | 43.3 | 42.7 | 41.5 | 41.0 | 39.7 | 39.5 | 38.5 | 38.9 | 39.1 |
| 27.5° | 44.3 | 43.0 | 41.2 | 39.7 | 39.1 | 38.1 | 38.1 | 37.2 | 37.4 | 37.5 |
| 30° | 43.5 | 41.5 | 40.6 | 38.7 | 37.2 | 36.5 | 36.0 | 35.6 | 35.7 | 35.7 |
| 32.5° | 42.7 | 40.4 | 38.6 | 36.4 | 35.5 | 34.7 | 34.5 | 33.3 | 34.2 | 34.3 |
| 35° | 41.9 | 39.2 | 37.1 | 34.6 | 34.0 | 32.7 | 32.5 | 31.7 | 31.5 | 31.7 |
| 37.5° | 41.2 | 37.8 | 35.6 | 32.9 | 31.6 | 30.9 | 30.3 | 29.0 | 28.6 | 28.9 |
| 40° | 39.6 | 36.3 | 33.7 | 31.3 | 29.5 | 27.8 | 27.8 | 26.4 | 25.8 | 25.7 |
| 42.5° | 39.1 | 34.7 | 31.8 | 29.1 | 27.5 | 25.9 | 24.6 | 23.0 | 20.6 | 19.9 |
| 45° | 36.8 | 33.2 | 29.5 | 26.7 | 25.0 | 23.2 | 20.5 | 15.9 | 15.3 | 15.3 |
| 47.5° | 35.3 | 31.4 | 27.5 | 24.9 | 22.7 | 20.2 | 16.0 | 13.2 | 12.3 | 12.1 |
| 50° | 33.9 | 29.3 | 25.6 | 22.8 | 20.4 | 15.4 | 13.2 | 10.5 | 9.4 | 10.0 |
| 52.5° | 32.0 | 27.6 | 23.9 | 20.6 | 17.4 | 13.0 | 11.1 | 8.5 | 7.5 | 7.5 |
| 55° | 30.4 | 26.1 | 22.5 | 18.8 | 14.5 | 11.2 | 9.0 | 6.2 | 4.5 | 4.2 |
| 57.5° | 28.6 | 24.3 | 20.9 | 16.9 | 12.7 | 9.4 | 6.6 | 2.9 | 1.7 | 1.8 |
| 60° | 26.5 | 22.6 | 18.9 | 14.3 | 11.2 | 7.6 | 4.2 | 1.3 | 0.1 | 0.1 |
| 62.5° | 24.8 | 20.8 | 17.2 | 12.8 | 9.6 | 5.4 | 2.8 | 0.1 | 0.0 | 0.0 |
| 65° | 22.7 | 18.8 | 15.5 | 11.5 | 8.1 | 4.5 | 2.2 | 0.2 | 0.0 | 0.0 |
| 67.5° | 20.1 | 16.9 | 13.8 | 10.1 | 7.0 | 3.8 | 2.1 | 0.3 | 0.0 | 0.0 |
| 70° | 17.5 | 14.8 | 12.1 | 8.8 | 6.0 | 3.4 | 1.8 | 0.4 | 0.0 | 0.0 |
| 72.5° | 15.0 | 12.5 | 10.1 | 7.4 | 5.0 | 2.9 | 1.6 | 0.3 | 0.0 | 0.0 |
| 75° | 12.2 | 10.3 | 8.4 | 6.2 | 4.1 | 2.4 | 1.3 | 0.3 | 0.0 | 0.0 |
| 77.5° | 9.5 | 8.0 | 6.8 | 4.8 | 3.3 | 1.9 | 1.0 | 0.2 | 0.0 | 0.0 |
| 80° | 7.2 | 5.9 | 4.8 | 3.5 | 2.4 | 1.3 | 0.7 | 0.1 | 0.0 | 0.0 |
| 82.5° | 4.5 | 3.9 | 3.2 | 2.3 | 1.6 | 0.9 | 0.5 | 0.1 | 0.0 | 0.0 |
| 85° | 2.5 | 2.1 | 1.8 | 1.3 | 0.9 | 0.5 | 0.3 | 0.1 | 0.0 | 0.0 |
| 87.5° | 0.9 | 0.7 | 0.6 | 0.5 | 0.3 | 0.2 | 0.1 | 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)