

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: McGRAW-EDISON

Report Number: P157435

Luminaire Tested: **VTS-F02-LED-E1-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157435
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33709)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-F02-LED-E1-5WQ
Description: VENTUS LED SITE LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

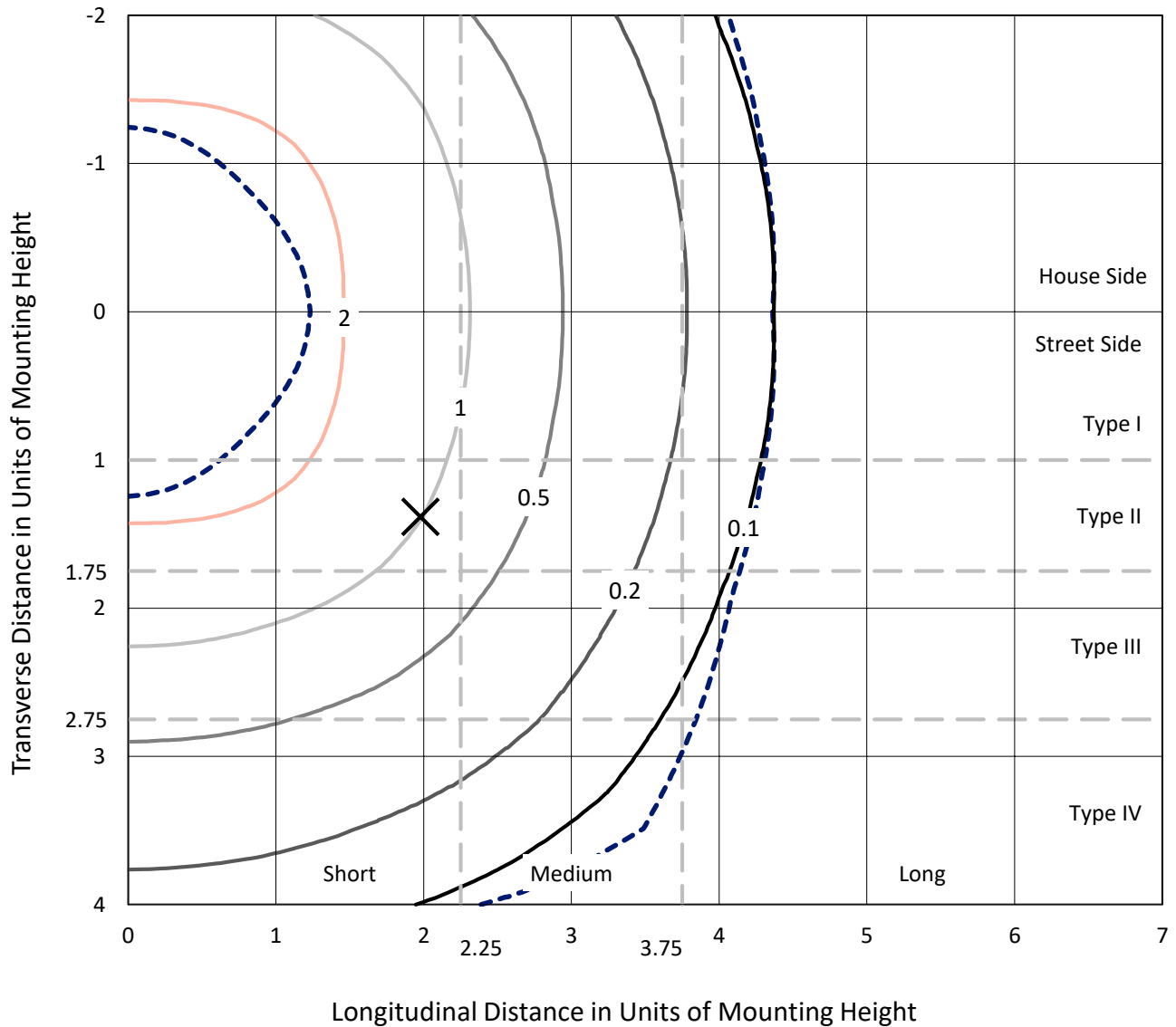
Lumens per Lamp: N/A
Luminaire Lumens: 5213.2 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 55
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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Iso-Footcandle Lines of Horizontal Illumination

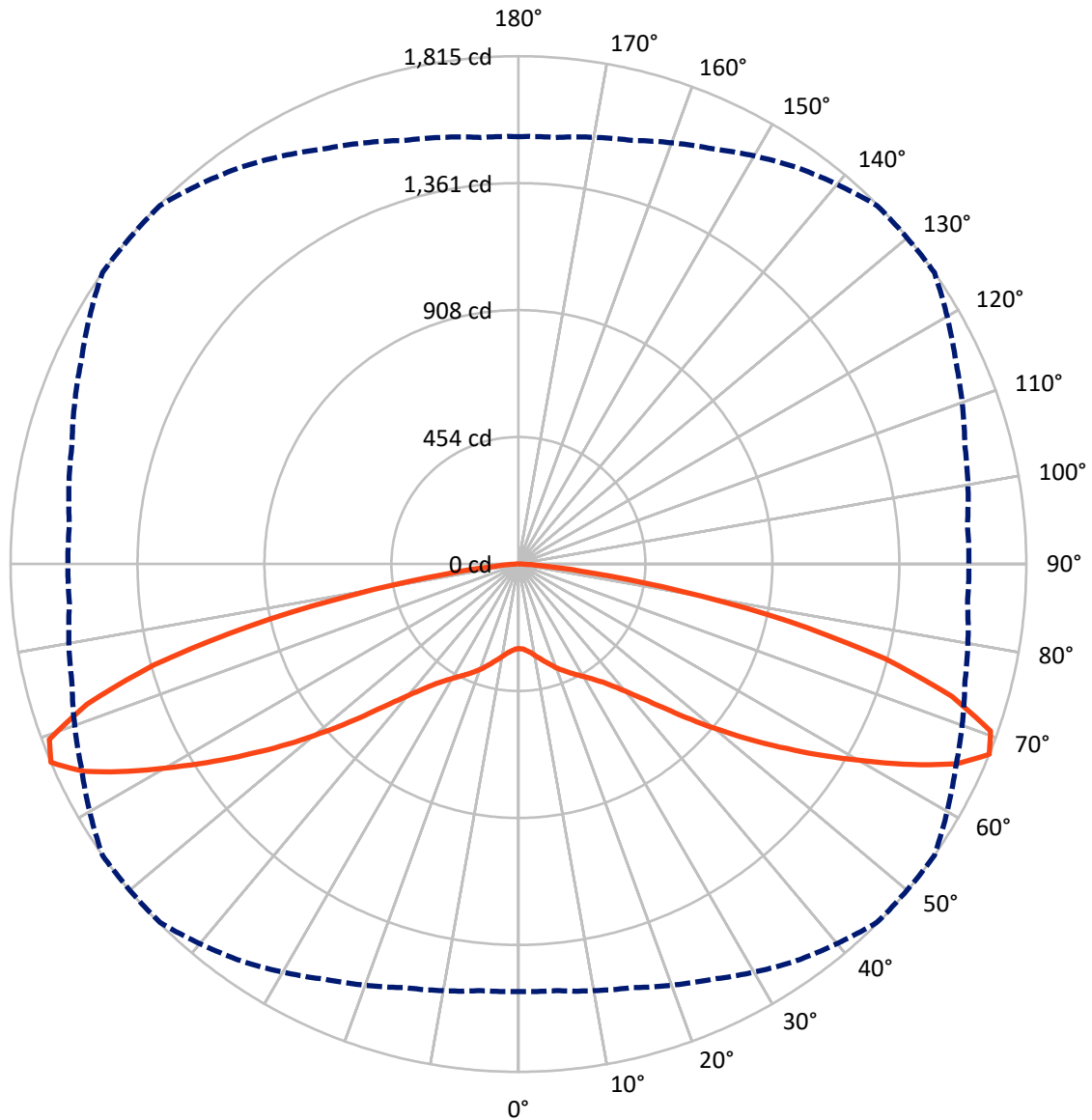
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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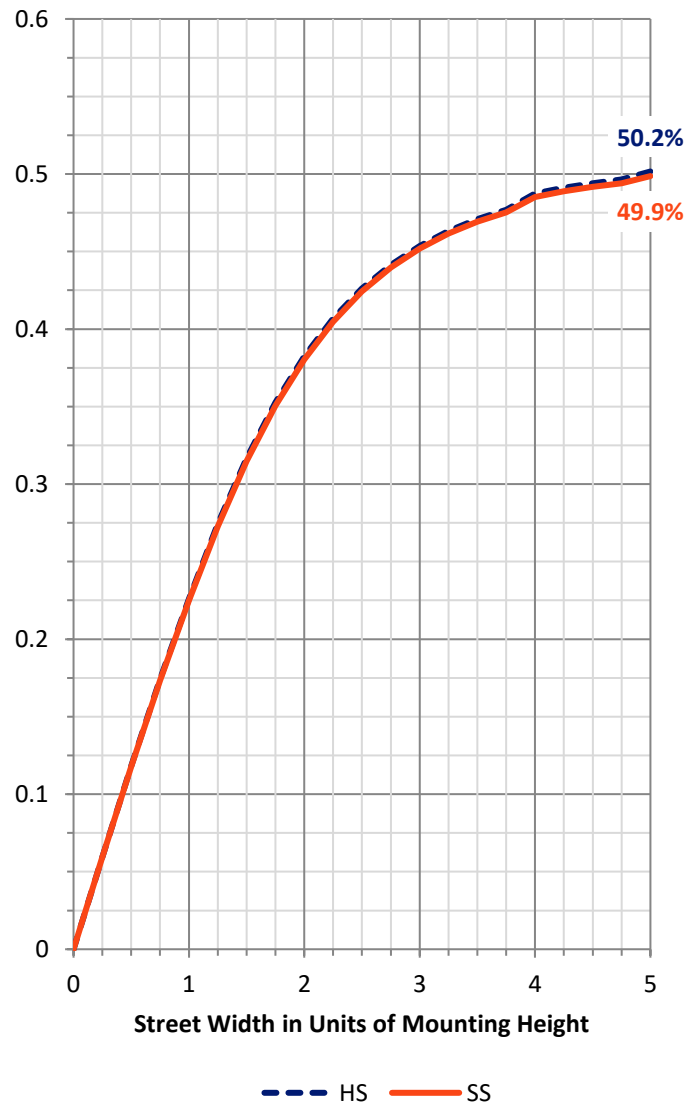
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2606.6 | 0.0 | 2606.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2606.6 | 0.0 | 2606.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 5213.2 | 0.0 | 5213.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 30.4 | 0.6 |
| 10°-20° | 103.7 | 2.0 |
| 20°-30° | 199.5 | 3.8 |
| 30°-40° | 326.7 | 6.3 |
| 40°-50° | 568.0 | 10.9 |
| 50°-60° | 1013.8 | 19.4 |
| 60°-70° | 1565.3 | 30.0 |
| 70°-80° | 1267.1 | 24.3 |
| 80°-90° | 138.8 | 2.7 |
| 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°-90° | 5213.2 | 100.0 |
| 0°-180° | 5213.2 | 100.0 |



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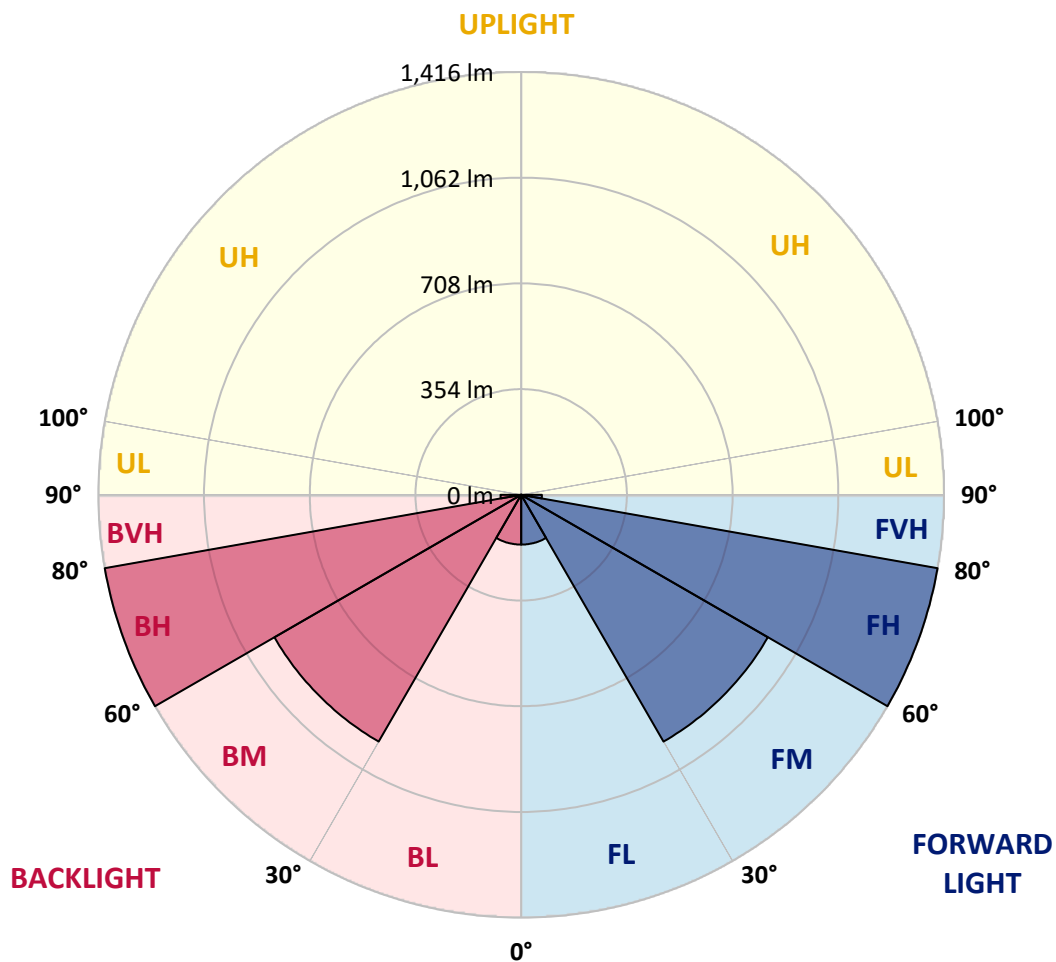
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 166.8 | 3.2 | | | |
| FM (30°-60°) | 954.3 | 18.3 | | | |
| FH (60°-80°) | 1416.2 | 27.2 | | | G1/1800 |
| FVH (80°-90°) | 69.4 | 1.3 | | | G1/100 |
| BL (0°-30°) | 166.8 | 3.2 | B1/500 | | |
| BM (30°-60°) | 954.3 | 18.3 | B1/1000 | | |
| BH (60°-80°) | 1416.2 | 27.2 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 69.4 | 1.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 302.5 | 302.5 | 302.5 | 302.5 | 302.5 | 302.5 | 302.5 | 302.5 | 302.5 | 302.5 | 302.5 |
| 2.5° | 304.5 | 304.8 | 304.5 | 304.5 | 304.1 | 304.1 | 304.1 | 304.5 | 304.5 | 305.1 | 304.8 |
| 5° | 310.7 | 311.1 | 310.4 | 311.1 | 311.1 | 311.4 | 311.1 | 310.7 | 311.1 | 311.4 | 310.4 |
| 7.5° | 319.6 | 320.3 | 320.0 | 320.3 | 320.6 | 320.3 | 320.3 | 320.0 | 320.6 | 320.3 | 319.6 |
| 10° | 331.2 | 331.9 | 331.5 | 332.2 | 332.5 | 332.9 | 332.9 | 332.2 | 331.9 | 331.9 | 331.5 |
| 12.5° | 345.1 | 345.1 | 345.1 | 346.1 | 346.7 | 347.4 | 347.1 | 346.4 | 345.4 | 345.7 | 344.4 |
| 15° | 360.3 | 360.9 | 360.9 | 361.2 | 362.9 | 363.2 | 362.9 | 361.9 | 361.6 | 360.9 | 360.3 |
| 17.5° | 377.1 | 377.4 | 377.8 | 378.1 | 380.1 | 381.1 | 379.7 | 378.1 | 378.1 | 377.8 | 377.8 |
| 20° | 394.6 | 394.3 | 394.9 | 395.6 | 396.9 | 397.9 | 397.6 | 395.9 | 394.6 | 395.6 | 395.3 |
| 22.5° | 410.8 | 411.1 | 411.4 | 412.4 | 414.7 | 415.1 | 414.1 | 412.8 | 411.1 | 411.4 | 411.4 |
| 25° | 426.0 | 426.3 | 427.0 | 428.3 | 430.9 | 432.6 | 431.3 | 429.3 | 427.0 | 427.0 | 427.3 |
| 27.5° | 441.5 | 441.8 | 442.2 | 444.5 | 447.8 | 449.7 | 448.8 | 445.5 | 442.8 | 442.2 | 441.2 |
| 30° | 458.7 | 458.7 | 459.3 | 462.3 | 466.6 | 468.9 | 467.6 | 463.6 | 459.7 | 459.0 | 459.0 |
| 32.5° | 480.5 | 479.1 | 480.1 | 484.1 | 488.7 | 491.4 | 490.4 | 485.7 | 480.8 | 479.8 | 479.8 |
| 35° | 506.5 | 505.9 | 506.5 | 511.2 | 516.8 | 520.7 | 518.4 | 514.1 | 508.9 | 507.9 | 507.2 |
| 37.5° | 537.6 | 537.9 | 539.9 | 545.2 | 552.8 | 557.7 | 555.4 | 548.5 | 542.2 | 542.2 | 542.2 |
| 40° | 576.9 | 577.5 | 581.5 | 589.4 | 600.3 | 604.6 | 602.0 | 593.4 | 586.1 | 583.5 | 584.1 |
| 42.5° | 630.4 | 630.0 | 636.3 | 646.2 | 659.1 | 665.4 | 661.1 | 651.8 | 641.3 | 637.0 | 637.3 |
| 45° | 693.4 | 698.1 | 704.7 | 717.2 | 733.4 | 744.3 | 736.7 | 726.5 | 710.6 | 704.3 | 704.0 |
| 47.5° | 769.7 | 774.7 | 782.9 | 803.7 | 823.2 | 836.4 | 830.5 | 813.6 | 790.9 | 781.9 | 778.6 |
| 50° | 856.6 | 862.8 | 873.4 | 900.2 | 927.9 | 942.7 | 932.2 | 910.1 | 885.6 | 872.1 | 868.8 |
| 52.5° | 954.3 | 956.3 | 972.1 | 1004.5 | 1038.8 | 1057.0 | 1045.1 | 1018.7 | 987.3 | 974.8 | 965.5 |
| 55° | 1062.6 | 1064.3 | 1082.4 | 1119.1 | 1158.0 | 1179.5 | 1164.3 | 1131.0 | 1101.9 | 1080.1 | 1082.1 |
| 57.5° | 1163.0 | 1168.0 | 1194.7 | 1237.6 | 1283.5 | 1309.6 | 1293.1 | 1257.8 | 1227.4 | 1202.6 | 1205.6 |
| 60° | 1270.3 | 1275.6 | 1303.7 | 1354.9 | 1416.9 | 1451.6 | 1430.1 | 1392.2 | 1360.8 | 1337.4 | 1334.4 |
| 62.5° | 1384.2 | 1387.2 | 1417.9 | 1463.8 | 1543.1 | 1598.9 | 1578.4 | 1536.5 | 1499.8 | 1476.7 | 1474.4 |
| 65° | 1489.6 | 1493.5 | 1519.6 | 1569.8 | 1651.4 | 1732.9 | 1721.4 | 1663.3 | 1613.7 | 1580.4 | 1575.8 |
| 67.5° | 1527.9 | 1530.5 | 1567.2 | 1637.5 | 1731.3 | 1811.9 | 1815.2 | 1723.7 | 1651.7 | 1611.1 | 1610.1 |
| 70° | 1483.0 | 1485.0 | 1531.8 | 1615.4 | 1734.9 | 1802.0 | 1790.1 | 1698.3 | 1609.8 | 1559.9 | 1555.0 |
| 72.5° | 1382.3 | 1382.6 | 1425.5 | 1496.5 | 1616.4 | 1671.2 | 1620.7 | 1570.1 | 1478.7 | 1441.4 | 1431.5 |
| 75° | 1199.0 | 1199.3 | 1229.0 | 1276.3 | 1361.8 | 1412.3 | 1354.9 | 1308.6 | 1254.8 | 1232.7 | 1221.1 |
| 77.5° | 824.5 | 829.5 | 860.2 | 914.7 | 1008.5 | 1064.3 | 989.0 | 905.1 | 872.4 | 853.6 | 842.4 |
| 80° | 396.9 | 404.5 | 439.8 | 493.7 | 591.7 | 680.9 | 588.1 | 484.7 | 421.0 | 369.2 | 378.4 |
| 82.5° | 106.0 | 107.3 | 137.7 | 197.8 | 275.7 | 323.6 | 262.8 | 183.9 | 115.9 | 77.9 | 71.3 |
| 85° | 28.1 | 29.7 | 41.6 | 57.1 | 86.8 | 110.6 | 84.5 | 53.8 | 40.9 | 30.4 | 27.7 |
| 87.5° | 7.6 | 8.9 | 14.5 | 17.5 | 21.8 | 17.5 | 21.8 | 18.8 | 18.2 | 9.6 | 6.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)