

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: P157434

Luminaire Tested: **VTS-F02-LED-E1-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157434
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-7030
Description: VENTUS LED SITE LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4761.5 lumens
Efficiency: N/A
Efficacy: 86.6 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

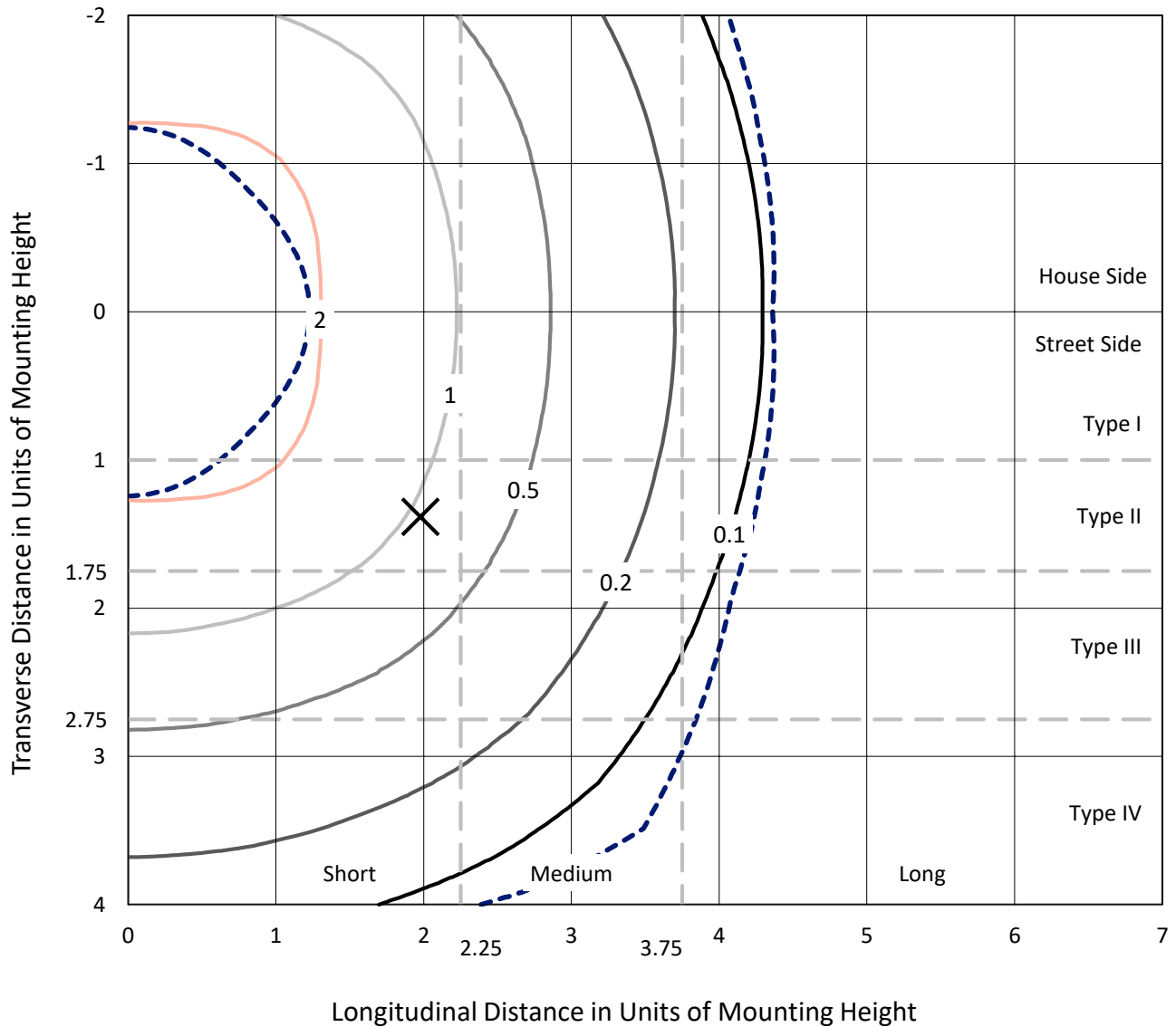
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

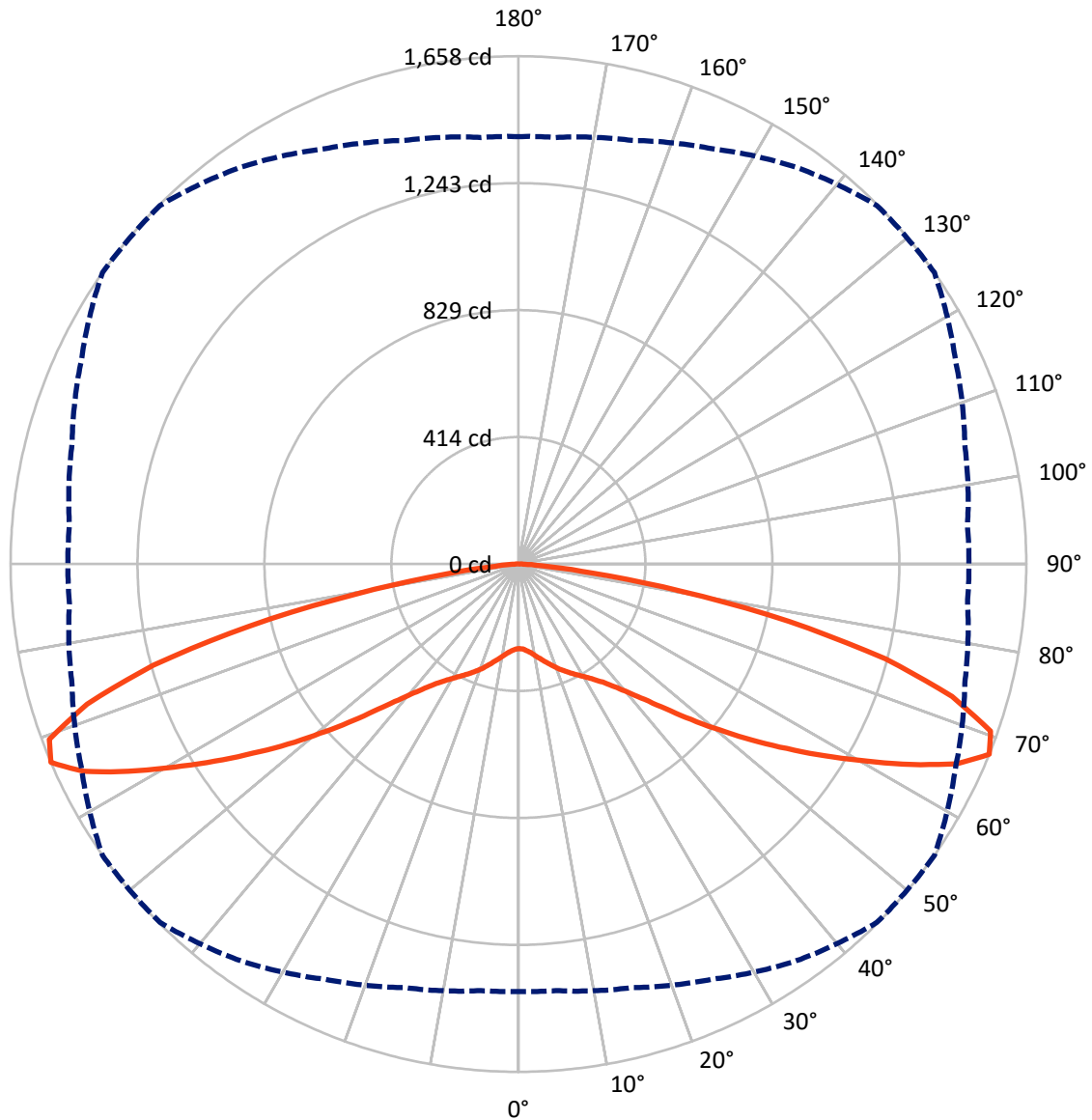


Based on 10 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - Semi-Cutoff

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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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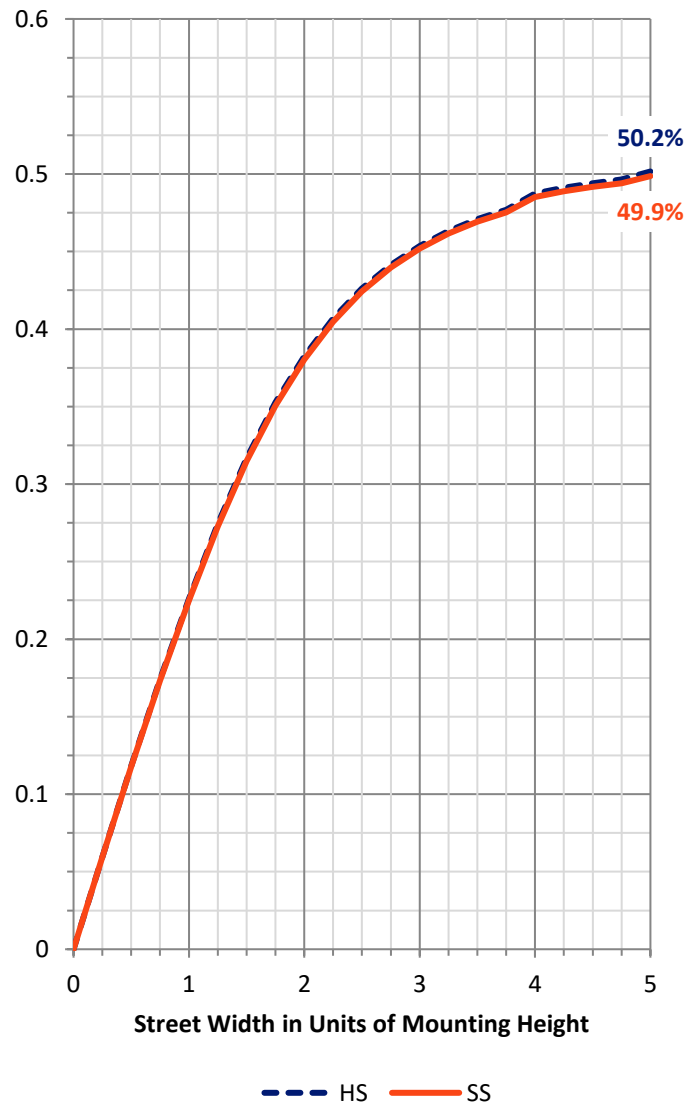
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2380.7 | 0.0 | 2380.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2380.7 | 0.0 | 2380.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 4761.5 | 0.0 | 4761.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 27.7 | 0.6 |
| 10°-20° | 94.7 | 2.0 |
| 20°-30° | 182.2 | 3.8 |
| 30°-40° | 298.4 | 6.3 |
| 40°-50° | 518.8 | 10.9 |
| 50°-60° | 926.0 | 19.4 |
| 60°-70° | 1429.6 | 30.0 |
| 70°-80° | 1157.3 | 24.3 |
| 80°-90° | 126.8 | 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° | 4761.5 | 100.0 |
| 0°-180° | 4761.5 | 100.0 |



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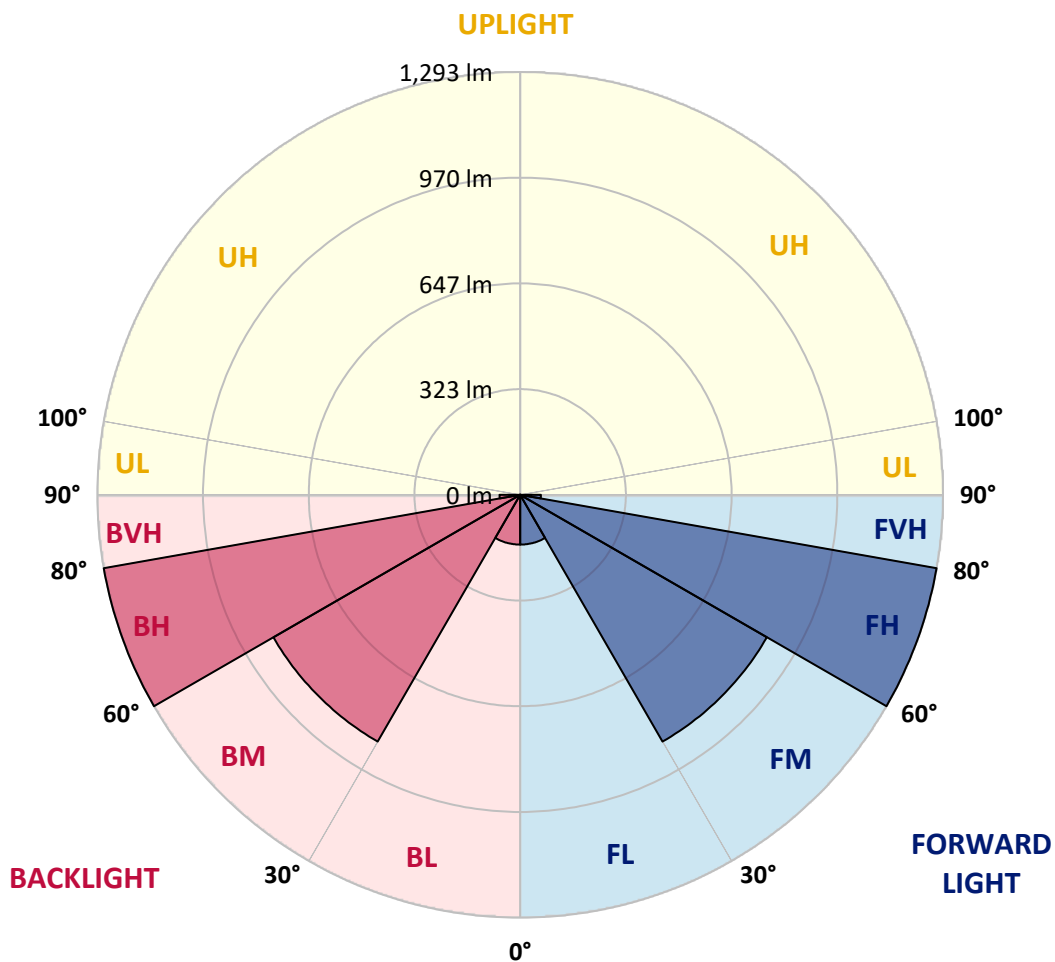
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 152.3 | 3.2 | | | |
| FM | (30°-60°) | 871.6 | 18.3 | | | |
| FH | (60°-80°) | 1293.5 | 27.2 | | | G1/1800 |
| FVH | (80°-90°) | 63.4 | 1.3 | | | G1/100 |
| BL | (0°-30°) | 152.3 | 3.2 | B1/500 | | |
| BM | (30°-60°) | 871.6 | 18.3 | B1/1000 | | |
| BH | (60°-80°) | 1293.5 | 27.2 | B3/2500 | | G1/1800 |
| BVH | (80°-90°) | 63.4 | 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° | 276.3 | 276.3 | 276.3 | 276.3 | 276.3 | 276.3 | 276.3 | 276.3 | 276.3 | 276.3 | 276.3 |
| 2.5° | 278.1 | 278.4 | 278.1 | 278.1 | 277.8 | 277.8 | 277.8 | 278.1 | 278.1 | 278.7 | 278.4 |
| 5° | 283.8 | 284.1 | 283.5 | 284.1 | 284.1 | 284.4 | 284.1 | 283.8 | 284.1 | 284.4 | 283.5 |
| 7.5° | 291.9 | 292.5 | 292.2 | 292.5 | 292.9 | 292.5 | 292.5 | 292.2 | 292.9 | 292.5 | 291.9 |
| 10° | 302.5 | 303.1 | 302.8 | 303.4 | 303.7 | 304.0 | 304.0 | 303.4 | 303.1 | 303.1 | 302.8 |
| 12.5° | 315.2 | 315.2 | 315.2 | 316.1 | 316.7 | 317.3 | 317.0 | 316.4 | 315.5 | 315.8 | 314.6 |
| 15° | 329.0 | 329.6 | 329.6 | 329.9 | 331.5 | 331.8 | 331.5 | 330.6 | 330.2 | 329.6 | 329.0 |
| 17.5° | 344.4 | 344.7 | 345.0 | 345.3 | 347.1 | 348.0 | 346.8 | 345.3 | 345.3 | 345.0 | 345.0 |
| 20° | 360.4 | 360.1 | 360.7 | 361.3 | 362.5 | 363.4 | 363.1 | 361.6 | 360.4 | 361.3 | 361.0 |
| 22.5° | 375.2 | 375.5 | 375.8 | 376.7 | 378.8 | 379.1 | 378.2 | 377.0 | 375.5 | 375.8 | 375.8 |
| 25° | 389.1 | 389.4 | 390.0 | 391.2 | 393.6 | 395.1 | 393.9 | 392.1 | 390.0 | 390.0 | 390.3 |
| 27.5° | 403.2 | 403.5 | 403.8 | 406.0 | 409.0 | 410.8 | 409.9 | 406.9 | 404.4 | 403.8 | 402.9 |
| 30° | 418.9 | 418.9 | 419.5 | 422.2 | 426.2 | 428.3 | 427.1 | 423.4 | 419.8 | 419.2 | 419.2 |
| 32.5° | 438.8 | 437.6 | 438.5 | 442.1 | 446.4 | 448.8 | 447.9 | 443.6 | 439.1 | 438.2 | 438.2 |
| 35° | 462.7 | 462.0 | 462.7 | 466.9 | 472.0 | 475.6 | 473.5 | 469.6 | 464.8 | 463.9 | 463.3 |
| 37.5° | 491.0 | 491.3 | 493.1 | 497.9 | 504.9 | 509.4 | 507.3 | 501.0 | 495.2 | 495.2 | 495.2 |
| 40° | 526.9 | 527.5 | 531.1 | 538.4 | 548.3 | 552.2 | 549.8 | 542.0 | 535.3 | 532.9 | 533.5 |
| 42.5° | 575.7 | 575.4 | 581.2 | 590.2 | 602.0 | 607.7 | 603.8 | 595.4 | 585.7 | 581.8 | 582.1 |
| 45° | 633.4 | 637.6 | 643.6 | 655.1 | 669.8 | 679.8 | 672.9 | 663.5 | 649.0 | 643.3 | 643.0 |
| 47.5° | 703.0 | 707.5 | 715.1 | 734.1 | 751.9 | 763.9 | 758.5 | 743.1 | 722.3 | 714.2 | 711.2 |
| 50° | 782.3 | 788.1 | 797.7 | 822.2 | 847.5 | 861.1 | 851.4 | 831.2 | 808.9 | 796.5 | 793.5 |
| 52.5° | 871.6 | 873.4 | 887.9 | 917.5 | 948.8 | 965.4 | 954.6 | 930.4 | 901.8 | 890.3 | 881.9 |
| 55° | 970.5 | 972.0 | 988.6 | 1022.1 | 1057.7 | 1077.3 | 1063.4 | 1033.0 | 1006.4 | 986.5 | 988.3 |
| 57.5° | 1062.2 | 1066.7 | 1091.2 | 1130.4 | 1172.3 | 1196.1 | 1181.1 | 1148.8 | 1121.0 | 1098.4 | 1101.1 |
| 60° | 1160.2 | 1165.1 | 1190.7 | 1237.5 | 1294.2 | 1325.8 | 1306.2 | 1271.5 | 1242.9 | 1221.5 | 1218.8 |
| 62.5° | 1264.3 | 1267.0 | 1295.1 | 1337.0 | 1409.4 | 1460.3 | 1441.6 | 1403.3 | 1369.9 | 1348.7 | 1346.6 |
| 65° | 1360.5 | 1364.1 | 1388.0 | 1433.8 | 1508.3 | 1582.8 | 1572.2 | 1519.1 | 1473.9 | 1443.4 | 1439.2 |
| 67.5° | 1395.5 | 1397.9 | 1431.4 | 1495.6 | 1581.3 | 1654.9 | 1657.9 | 1574.3 | 1508.6 | 1471.5 | 1470.6 |
| 70° | 1354.5 | 1356.3 | 1399.1 | 1475.4 | 1584.6 | 1645.8 | 1635.0 | 1551.1 | 1470.3 | 1424.7 | 1420.2 |
| 72.5° | 1262.5 | 1262.8 | 1302.0 | 1366.8 | 1476.3 | 1526.4 | 1480.2 | 1434.1 | 1350.6 | 1316.5 | 1307.4 |
| 75° | 1095.1 | 1095.4 | 1122.5 | 1165.7 | 1243.8 | 1289.9 | 1237.5 | 1195.2 | 1146.1 | 1125.9 | 1115.3 |
| 77.5° | 753.1 | 757.6 | 785.7 | 835.4 | 921.1 | 972.0 | 903.3 | 826.7 | 796.8 | 779.6 | 769.4 |
| 80° | 362.5 | 369.5 | 401.7 | 450.9 | 540.5 | 621.9 | 537.1 | 442.7 | 384.5 | 337.2 | 345.6 |
| 82.5° | 96.8 | 98.0 | 125.8 | 180.7 | 251.8 | 295.6 | 240.1 | 168.0 | 105.9 | 71.2 | 65.1 |
| 85° | 25.6 | 27.1 | 38.0 | 52.2 | 79.3 | 101.0 | 77.2 | 49.2 | 37.4 | 27.7 | 25.3 |
| 87.5° | 6.9 | 8.1 | 13.3 | 16.0 | 19.9 | 16.0 | 19.9 | 17.2 | 16.6 | 8.7 | 6.3 |
| 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)