

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: P157456

Luminaire Tested: **VTS-F04-LED-E1-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157456
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-F04-LED-E1-5WQ-7050
Description: VENTUS LED SITE LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (28) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

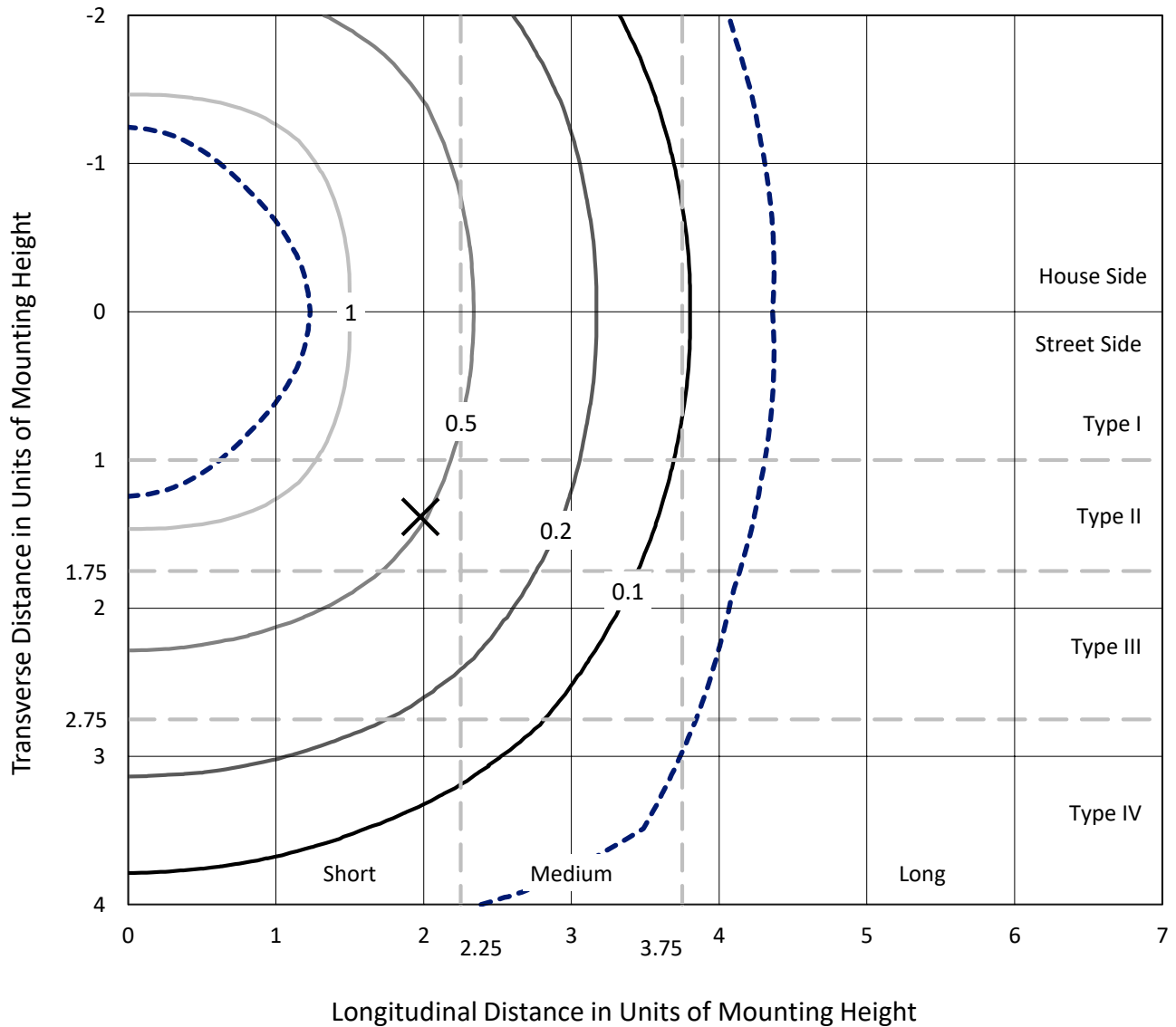
Lumens per Lamp: N/A
Luminaire Lumens: 10698.5 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 102.2
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

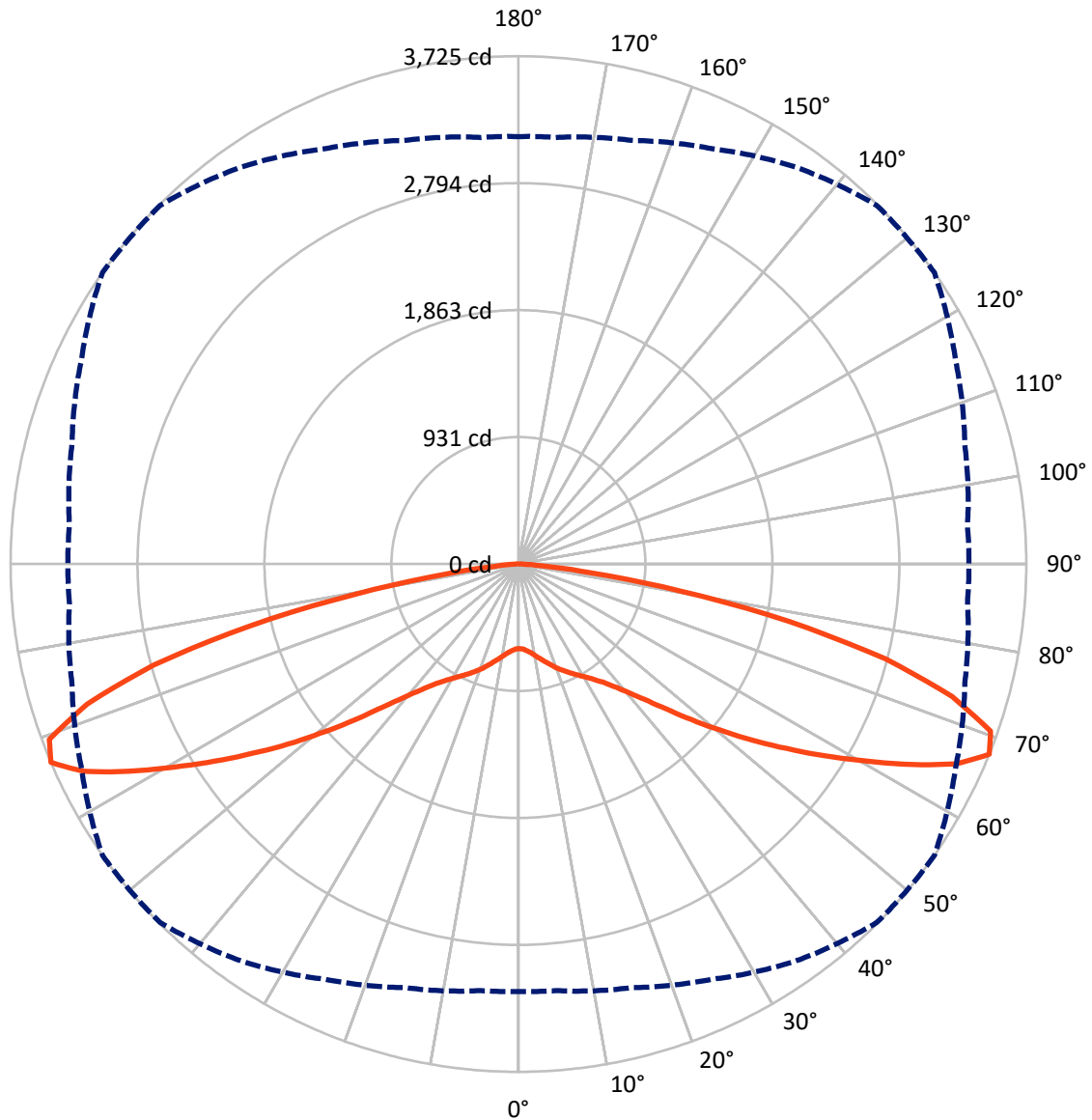
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.7 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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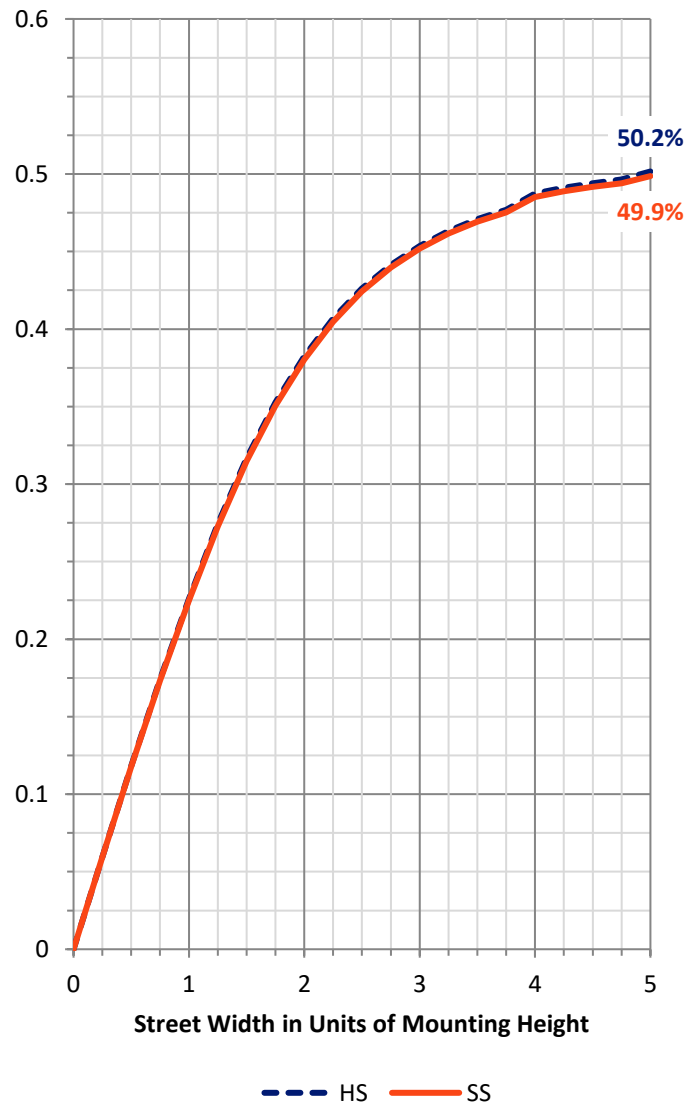
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5349.3 | 0.0 | 5349.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5349.3 | 0.0 | 5349.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 10698.5 | 0.0 | 10698.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 62.3 | 0.6 |
| 10°-20° | 212.9 | 2.0 |
| 20°-30° | 409.3 | 3.8 |
| 30°-40° | 670.5 | 6.3 |
| 40°-50° | 1165.6 | 10.9 |
| 50°-60° | 2080.5 | 19.4 |
| 60°-70° | 3212.2 | 30.0 |
| 70°-80° | 2600.3 | 24.3 |
| 80°-90° | 284.8 | 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° | 10698.5 | 100.0 |
| 0°-180° | 10698.5 | 100.0 |



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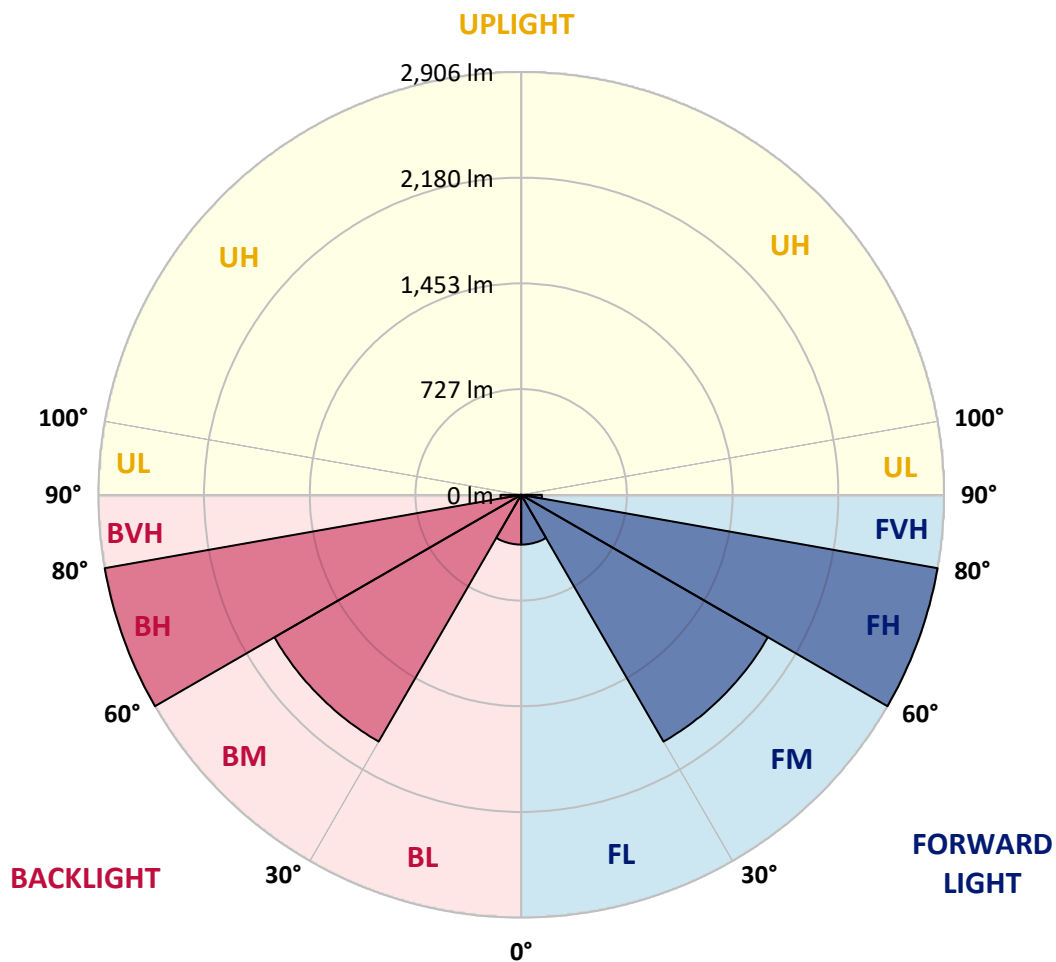
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 342.2 | 3.2 | | | |
| FM | (30°-60°) | 1958.3 | 18.3 | | | |
| FH | (60°-80°) | 2906.3 | 27.2 | | | G2/5000 |
| FVH | (80°-90°) | 142.4 | 1.3 | | | G2/225 |
| BL | (0°-30°) | 342.2 | 3.2 | B1/500 | | |
| BM | (30°-60°) | 1958.3 | 18.3 | B2/2500 | | |
| BH | (60°-80°) | 2906.3 | 27.2 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 142.4 | 1.3 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 620.7 | 620.7 | 620.7 | 620.7 | 620.7 | 620.7 | 620.7 | 620.7 | 620.7 | 620.7 | 620.7 |
| 2.5° | 624.8 | 625.5 | 624.8 | 624.8 | 624.1 | 624.1 | 624.1 | 624.8 | 624.8 | 626.2 | 625.5 |
| 5° | 637.7 | 638.4 | 637.0 | 638.4 | 638.4 | 639.0 | 638.4 | 637.7 | 638.4 | 639.0 | 637.0 |
| 7.5° | 656.0 | 657.3 | 656.7 | 657.3 | 658.0 | 657.3 | 657.3 | 656.7 | 658.0 | 657.3 | 656.0 |
| 10° | 679.7 | 681.0 | 680.4 | 681.7 | 682.4 | 683.1 | 683.1 | 681.7 | 681.0 | 681.0 | 680.4 |
| 12.5° | 708.2 | 708.2 | 708.2 | 710.2 | 711.5 | 712.9 | 712.2 | 710.9 | 708.8 | 709.5 | 706.8 |
| 15° | 739.3 | 740.7 | 740.7 | 741.4 | 744.7 | 745.4 | 744.7 | 742.7 | 742.0 | 740.7 | 739.3 |
| 17.5° | 773.9 | 774.6 | 775.2 | 775.9 | 780.0 | 782.0 | 779.3 | 775.9 | 775.9 | 775.2 | 775.2 |
| 20° | 809.8 | 809.1 | 810.5 | 811.8 | 814.5 | 816.6 | 815.9 | 812.5 | 809.8 | 811.8 | 811.2 |
| 22.5° | 843.0 | 843.7 | 844.4 | 846.4 | 851.1 | 851.8 | 849.8 | 847.1 | 843.7 | 844.4 | 844.4 |
| 25° | 874.2 | 874.9 | 876.2 | 878.9 | 884.3 | 887.7 | 885.0 | 881.0 | 876.2 | 876.2 | 876.9 |
| 27.5° | 906.0 | 906.7 | 907.4 | 912.1 | 918.9 | 923.0 | 920.9 | 914.2 | 908.7 | 907.4 | 905.4 |
| 30° | 941.3 | 941.3 | 942.6 | 948.7 | 957.5 | 962.3 | 959.6 | 951.4 | 943.3 | 941.9 | 941.9 |
| 32.5° | 986.0 | 983.3 | 985.3 | 993.5 | 1002.9 | 1008.4 | 1006.3 | 996.8 | 986.7 | 984.6 | 984.6 |
| 35° | 1039.5 | 1038.2 | 1039.5 | 1049.0 | 1060.5 | 1068.7 | 1063.9 | 1055.1 | 1044.3 | 1042.2 | 1040.9 |
| 37.5° | 1103.2 | 1103.9 | 1108.0 | 1118.8 | 1134.4 | 1144.6 | 1139.8 | 1125.6 | 1112.7 | 1112.7 | 1112.7 |
| 40° | 1183.9 | 1185.2 | 1193.4 | 1209.6 | 1232.0 | 1240.8 | 1235.4 | 1217.8 | 1202.8 | 1197.4 | 1198.8 |
| 42.5° | 1293.7 | 1293.0 | 1305.9 | 1326.2 | 1352.6 | 1365.5 | 1356.7 | 1337.7 | 1316.0 | 1307.2 | 1307.9 |
| 45° | 1423.1 | 1432.6 | 1446.1 | 1471.9 | 1505.1 | 1527.4 | 1511.9 | 1490.9 | 1458.3 | 1445.4 | 1444.8 |
| 47.5° | 1579.6 | 1589.8 | 1606.7 | 1649.4 | 1689.4 | 1716.5 | 1704.3 | 1669.8 | 1623.0 | 1604.7 | 1597.9 |
| 50° | 1757.9 | 1770.7 | 1792.4 | 1847.3 | 1904.2 | 1934.7 | 1913.0 | 1867.6 | 1817.5 | 1789.7 | 1782.9 |
| 52.5° | 1958.4 | 1962.5 | 1995.0 | 2061.4 | 2131.9 | 2169.2 | 2144.8 | 2090.6 | 2026.2 | 2000.5 | 1981.5 |
| 55° | 2180.7 | 2184.1 | 2221.4 | 2296.6 | 2376.6 | 2420.6 | 2389.4 | 2321.0 | 2261.4 | 2216.6 | 2220.7 |
| 57.5° | 2386.7 | 2396.9 | 2451.8 | 2539.9 | 2634.1 | 2687.6 | 2653.7 | 2581.2 | 2518.9 | 2468.0 | 2474.1 |
| 60° | 2607.0 | 2617.8 | 2675.4 | 2780.4 | 2907.8 | 2979.0 | 2934.9 | 2857.0 | 2792.6 | 2744.5 | 2738.4 |
| 62.5° | 2840.8 | 2846.9 | 2909.9 | 3004.1 | 3166.7 | 3281.2 | 3239.2 | 3153.2 | 3077.9 | 3030.5 | 3025.8 |
| 65° | 3056.9 | 3065.1 | 3118.6 | 3221.6 | 3389.0 | 3556.4 | 3532.6 | 3413.4 | 3311.7 | 3243.3 | 3233.8 |
| 67.5° | 3135.5 | 3141.0 | 3216.2 | 3360.5 | 3553.0 | 3718.3 | 3725.1 | 3537.4 | 3389.7 | 3306.3 | 3304.3 |
| 70° | 3043.4 | 3047.4 | 3143.7 | 3315.1 | 3560.4 | 3698.0 | 3673.6 | 3485.2 | 3303.6 | 3201.3 | 3191.1 |
| 72.5° | 2836.7 | 2837.4 | 2925.5 | 3071.2 | 3317.1 | 3429.6 | 3326.0 | 3222.3 | 3034.6 | 2958.0 | 2937.7 |
| 75° | 2460.6 | 2461.3 | 2522.3 | 2619.2 | 2794.7 | 2898.4 | 2780.4 | 2685.6 | 2575.1 | 2529.7 | 2506.0 |
| 77.5° | 1692.1 | 1702.3 | 1765.3 | 1877.1 | 2069.6 | 2184.1 | 2029.6 | 1857.5 | 1790.4 | 1751.8 | 1728.7 |
| 80° | 814.5 | 830.1 | 902.6 | 1013.1 | 1214.4 | 1397.3 | 1206.9 | 994.8 | 864.0 | 757.6 | 776.6 |
| 82.5° | 217.5 | 220.2 | 282.6 | 405.9 | 565.8 | 664.1 | 539.4 | 377.5 | 237.9 | 159.9 | 146.4 |
| 85° | 57.6 | 61.0 | 85.4 | 117.2 | 178.2 | 227.0 | 173.5 | 110.5 | 84.0 | 62.3 | 56.9 |
| 87.5° | 15.6 | 18.3 | 29.8 | 35.9 | 44.7 | 35.9 | 44.7 | 38.6 | 37.3 | 19.7 | 14.2 |
| 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)