

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: STREETWORKS

Report Number: P381068

Luminaire Tested: **USSL-PA1A-750-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-PA1A-750-U-5WQ
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7831 lumens
Efficiency: N/A
Efficacy: 145.0 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 54
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: 28.75 FT

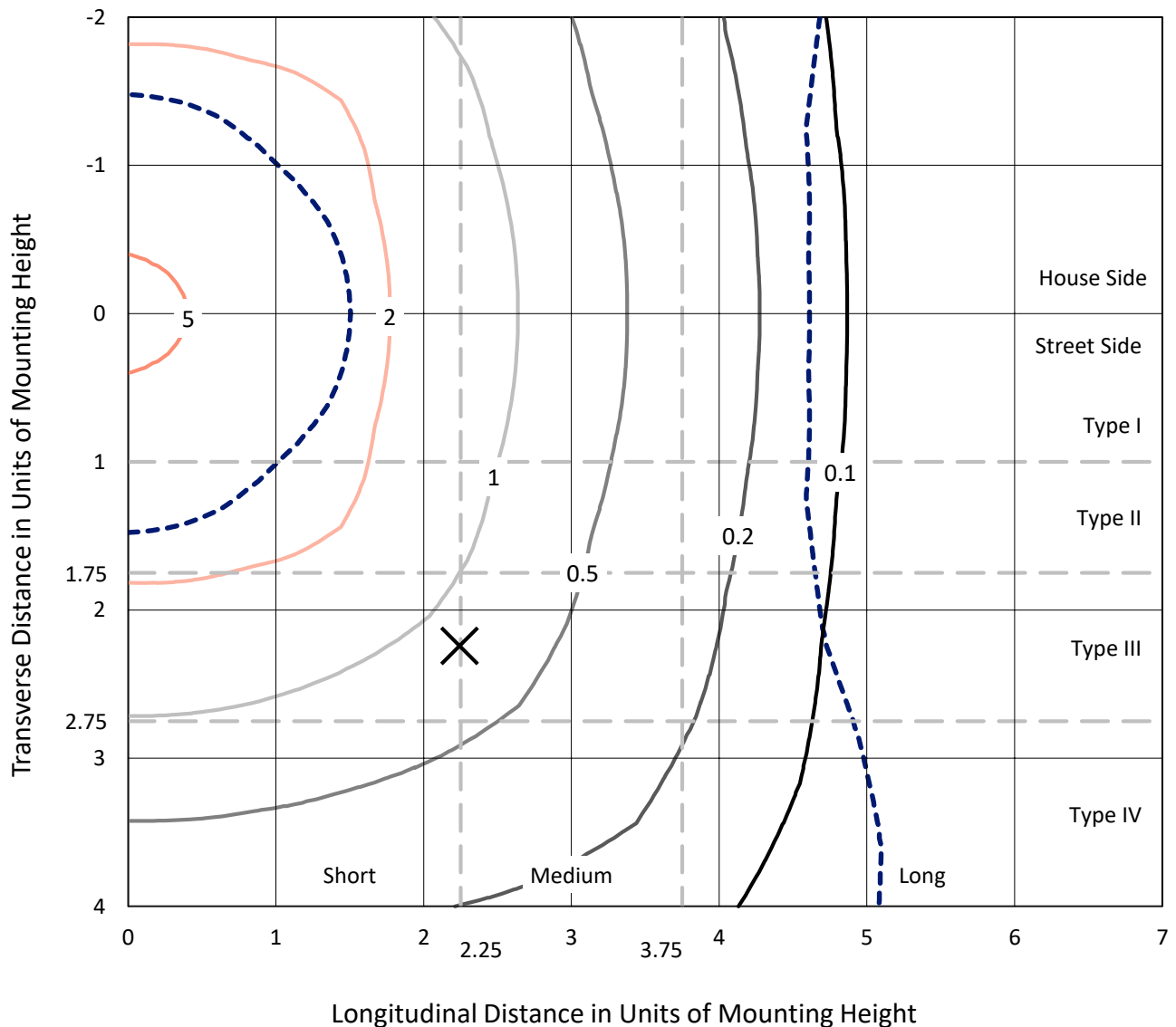


REPORT NUMBER: P381068

CATALOG NUMBER: USSL-PA1A-750-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

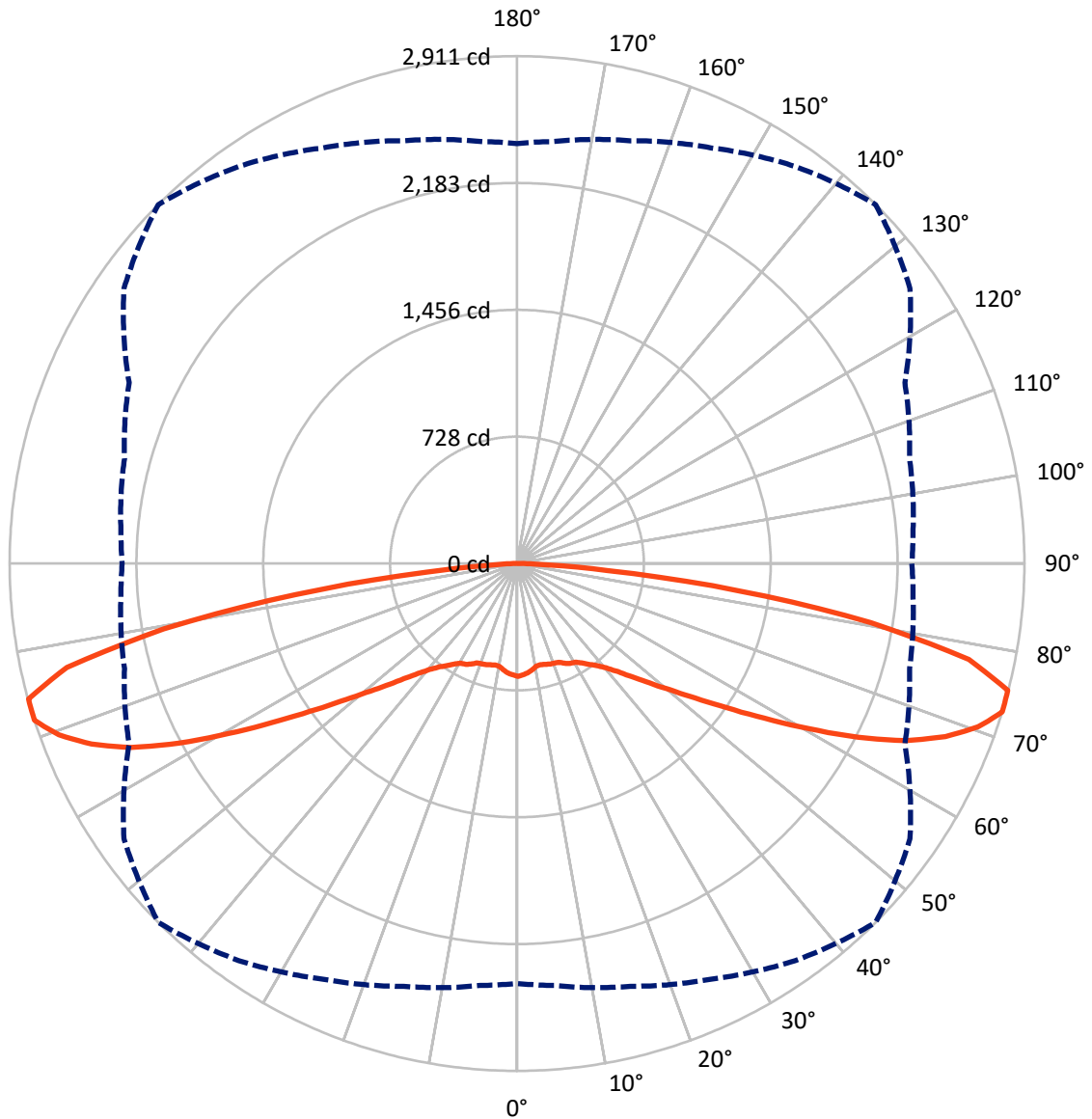


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P381068

CATALOG NUMBER: USSL-PA1A-750-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P381068

CATALOG NUMBER: USSL-PA1A-750-U-5WQ

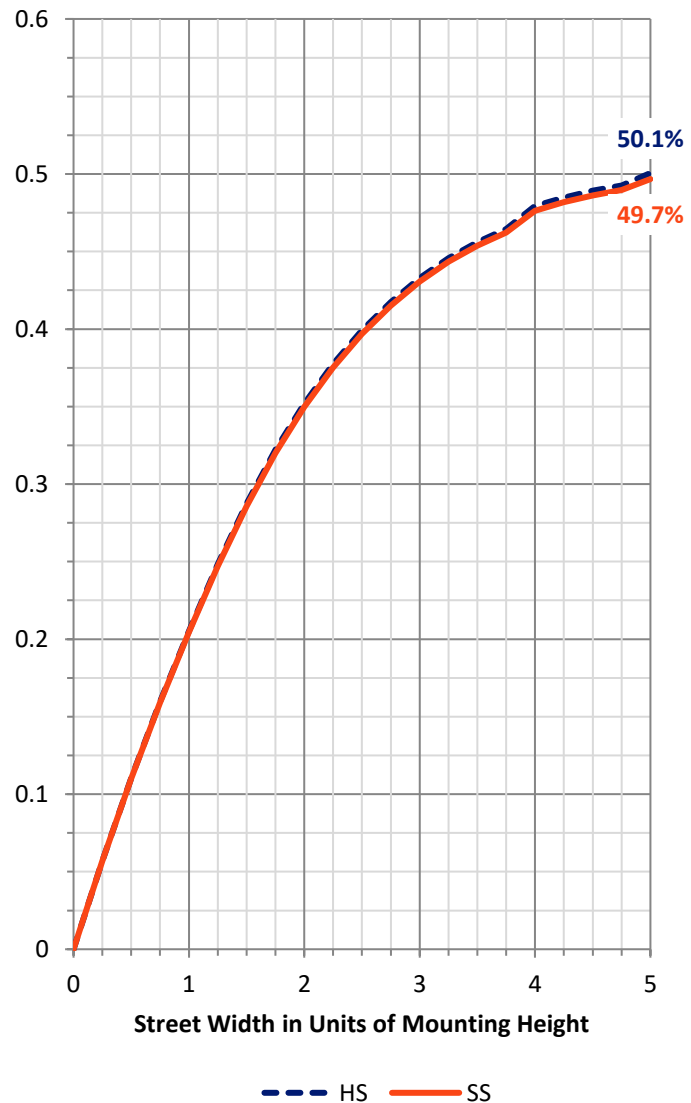
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3915.5 | 0.0 | 3915.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3915.5 | 0.0 | 3915.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 7831.0 | 0.0 | 7831.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 59.4 | 0.8 |
| 10°-20° | 172.5 | 2.2 |
| 20°-30° | 293.1 | 3.7 |
| 30°-40° | 447.0 | 5.7 |
| 40°-50° | 736.1 | 9.4 |
| 50°-60° | 1285.4 | 16.4 |
| 60°-70° | 2155.0 | 27.5 |
| 70°-80° | 2306.3 | 29.5 |
| 80°-90° | 376.1 | 4.8 |
| 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° | 7831.0 | 100.0 |
| 0°-180° | 7831.0 | 100.0 |



REPORT NUMBER: P381068

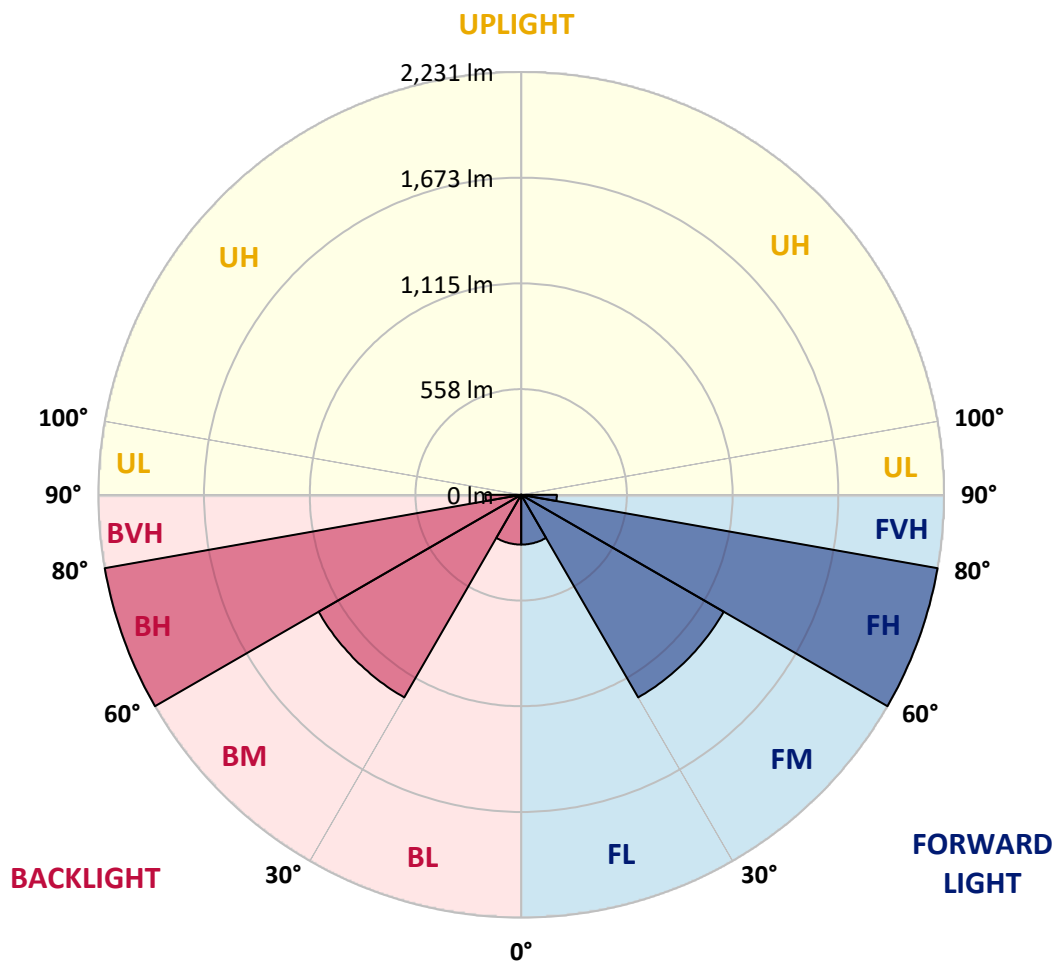
CATALOG NUMBER: USSL-PA1A-750-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 262.5 | 3.4 | | | |
| FM | (30°-60°) | 1234.2 | 15.8 | | | |
| FH | (60°-80°) | 2230.7 | 28.5 | | | G2/5000 |
| FVH | (80°-90°) | 188.1 | 2.4 | | | G2/225 |
| BL | (0°-30°) | 262.5 | 3.4 | B1/500 | | |
| BM | (30°-60°) | 1234.2 | 15.8 | B2/2500 | | |
| BH | (60°-80°) | 2230.7 | 28.5 | B3/2500 | | G2/5000 |
| BVH | (80°-90°) | 188.1 | 2.4 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type V Short





REPORT NUMBER: P381068

CATALOG NUMBER: USSL-PA1A-750-U-5WQ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 648.0 | 648.0 | 648.0 | 648.0 | 648.0 | 648.0 | 648.0 | 648.0 | 648.0 | 648.0 | 648.0 |
| 2.5° | 644.0 | 644.0 | 644.0 | 643.0 | 641.0 | 640.0 | 638.0 | 639.0 | 639.0 | 639.0 | 639.0 |
| 5° | 636.0 | 636.0 | 635.0 | 634.0 | 632.0 | 631.0 | 629.0 | 631.0 | 631.0 | 631.0 | 631.0 |
| 7.5° | 621.0 | 622.0 | 622.0 | 621.0 | 618.0 | 617.0 | 614.0 | 615.0 | 615.0 | 616.0 | 615.0 |
| 10° | 613.0 | 613.0 | 612.0 | 607.0 | 602.0 | 600.0 | 599.0 | 602.0 | 605.0 | 608.0 | 608.0 |
| 12.5° | 613.0 | 613.0 | 611.0 | 603.0 | 596.0 | 596.0 | 596.0 | 600.0 | 606.0 | 612.0 | 613.0 |
| 15° | 616.0 | 616.0 | 612.0 | 603.0 | 599.0 | 600.0 | 600.0 | 604.0 | 611.0 | 619.0 | 620.0 |
| 17.5° | 618.0 | 618.0 | 613.0 | 604.0 | 604.0 | 607.0 | 605.0 | 608.0 | 615.0 | 624.0 | 625.0 |
| 20° | 621.0 | 621.0 | 614.0 | 607.0 | 607.0 | 610.0 | 610.0 | 613.0 | 619.0 | 628.0 | 629.0 |
| 22.5° | 627.0 | 626.0 | 619.0 | 613.0 | 613.0 | 615.0 | 617.0 | 621.0 | 626.0 | 634.0 | 636.0 |
| 25° | 634.0 | 634.0 | 628.0 | 627.0 | 629.0 | 634.0 | 633.0 | 632.0 | 634.0 | 641.0 | 644.0 |
| 27.5° | 638.0 | 638.0 | 634.0 | 637.0 | 645.0 | 649.0 | 644.0 | 640.0 | 640.0 | 647.0 | 648.0 |
| 30° | 651.0 | 650.0 | 646.0 | 648.0 | 655.0 | 657.0 | 654.0 | 649.0 | 652.0 | 660.0 | 661.0 |
| 32.5° | 673.0 | 673.0 | 667.0 | 667.0 | 672.0 | 680.0 | 670.0 | 667.0 | 671.0 | 680.0 | 681.0 |
| 35° | 707.0 | 707.0 | 699.0 | 695.0 | 699.0 | 710.0 | 695.0 | 694.0 | 701.0 | 711.0 | 712.0 |
| 37.5° | 750.0 | 750.0 | 745.0 | 735.0 | 736.0 | 743.0 | 730.0 | 729.0 | 742.0 | 753.0 | 753.0 |
| 40° | 804.0 | 807.0 | 802.0 | 790.0 | 786.0 | 787.0 | 777.0 | 778.0 | 793.0 | 806.0 | 806.0 |
| 42.5° | 871.0 | 873.0 | 865.0 | 856.0 | 851.0 | 848.0 | 838.0 | 840.0 | 858.0 | 875.0 | 875.0 |
| 45° | 952.0 | 953.0 | 945.0 | 934.0 | 928.0 | 926.0 | 916.0 | 921.0 | 941.0 | 959.0 | 958.0 |
| 47.5° | 1043.0 | 1044.0 | 1036.0 | 1025.0 | 1021.0 | 1024.0 | 1014.0 | 1014.0 | 1032.0 | 1047.0 | 1045.0 |
| 50° | 1146.0 | 1148.0 | 1139.0 | 1134.0 | 1131.0 | 1139.0 | 1127.0 | 1116.0 | 1128.0 | 1143.0 | 1141.0 |
| 52.5° | 1260.0 | 1265.0 | 1259.0 | 1261.0 | 1272.0 | 1282.0 | 1262.0 | 1238.0 | 1244.0 | 1254.0 | 1251.0 |
| 55° | 1398.1 | 1404.1 | 1406.1 | 1413.1 | 1442.1 | 1459.1 | 1426.1 | 1386.1 | 1383.1 | 1384.1 | 1379.1 |
| 57.5° | 1553.1 | 1557.1 | 1570.1 | 1586.1 | 1646.1 | 1673.1 | 1621.1 | 1552.1 | 1530.1 | 1517.1 | 1514.1 |
| 60° | 1709.1 | 1716.1 | 1748.1 | 1781.1 | 1873.1 | 1922.1 | 1842.1 | 1726.1 | 1679.1 | 1655.1 | 1650.1 |
| 62.5° | 1866.1 | 1880.1 | 1932.1 | 1988.1 | 2122.1 | 2195.1 | 2072.1 | 1904.1 | 1836.1 | 1806.1 | 1798.1 |
| 65° | 2048.1 | 2065.1 | 2128.1 | 2199.1 | 2348.1 | 2451.1 | 2302.1 | 2088.1 | 2015.1 | 1975.1 | 1965.1 |
| 67.5° | 2261.1 | 2279.1 | 2330.1 | 2409.1 | 2550.1 | 2651.1 | 2519.1 | 2276.1 | 2181.1 | 2130.1 | 2122.1 |
| 70° | 2436.1 | 2452.1 | 2507.1 | 2587.1 | 2692.1 | 2807.1 | 2681.1 | 2426.1 | 2340.1 | 2304.1 | 2299.1 |
| 72.5° | 2409.1 | 2430.1 | 2511.1 | 2631.1 | 2781.1 | 2911.1 | 2752.1 | 2455.1 | 2331.1 | 2281.1 | 2265.1 |
| 75° | 2104.1 | 2127.1 | 2223.1 | 2440.1 | 2714.1 | 2908.1 | 2649.1 | 2262.1 | 2116.1 | 2074.1 | 2066.1 |
| 77.5° | 1393.1 | 1415.1 | 1577.1 | 1919.1 | 2370.1 | 2650.1 | 2338.1 | 1895.1 | 1660.1 | 1559.1 | 1553.1 |
| 80° | 563.0 | 591.0 | 746.0 | 1109.0 | 1680.1 | 2060.1 | 1734.1 | 1213.0 | 818.0 | 660.0 | 628.0 |
| 82.5° | 131.0 | 156.0 | 227.0 | 409.0 | 860.0 | 1283.0 | 935.0 | 453.0 | 263.0 | 187.0 | 168.0 |
| 85° | 55.0 | 56.0 | 97.0 | 133.0 | 269.0 | 518.0 | 306.0 | 165.0 | 134.0 | 98.0 | 96.0 |
| 87.5° | 21.0 | 22.0 | 47.0 | 56.0 | 86.0 | 98.0 | 104.0 | 85.0 | 79.0 | 49.0 | 47.0 |
| 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)