

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: P253775

Luminaire Tested: **LXF.LXT-AF24-70-D-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253775
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-9-90°)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-70-D-U-5WQ
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
PHOTOMETRIC DATA REPORTED FOR LOWER HEMISPHERE ONLY. MINIMAL LIGHT IN
UPPER HEMISPHERE NOT REPORTED TO PROVIDE RELEVANT COMPARISON TO
COMPETITIVE OFFERINGS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7920.7 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

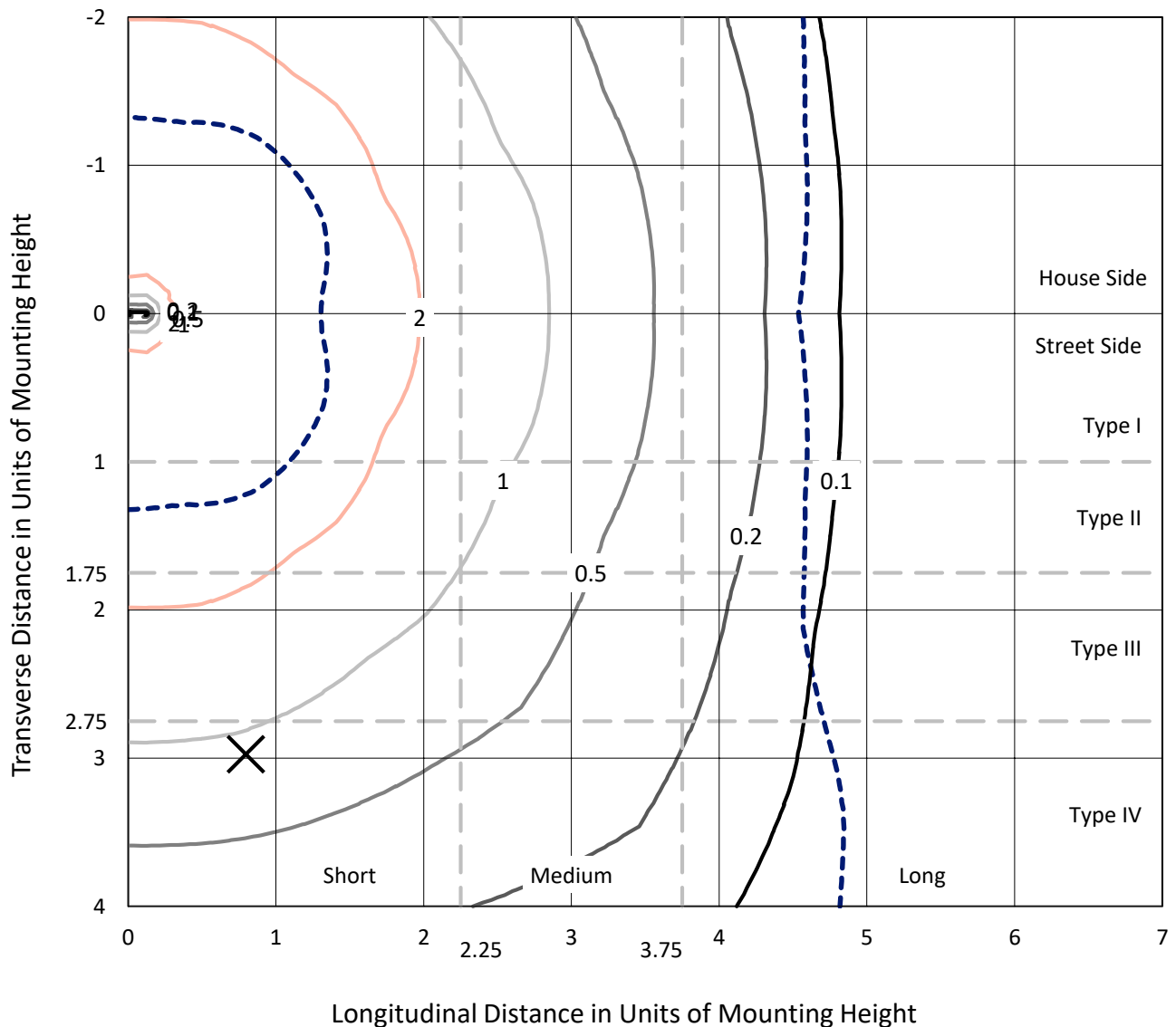
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

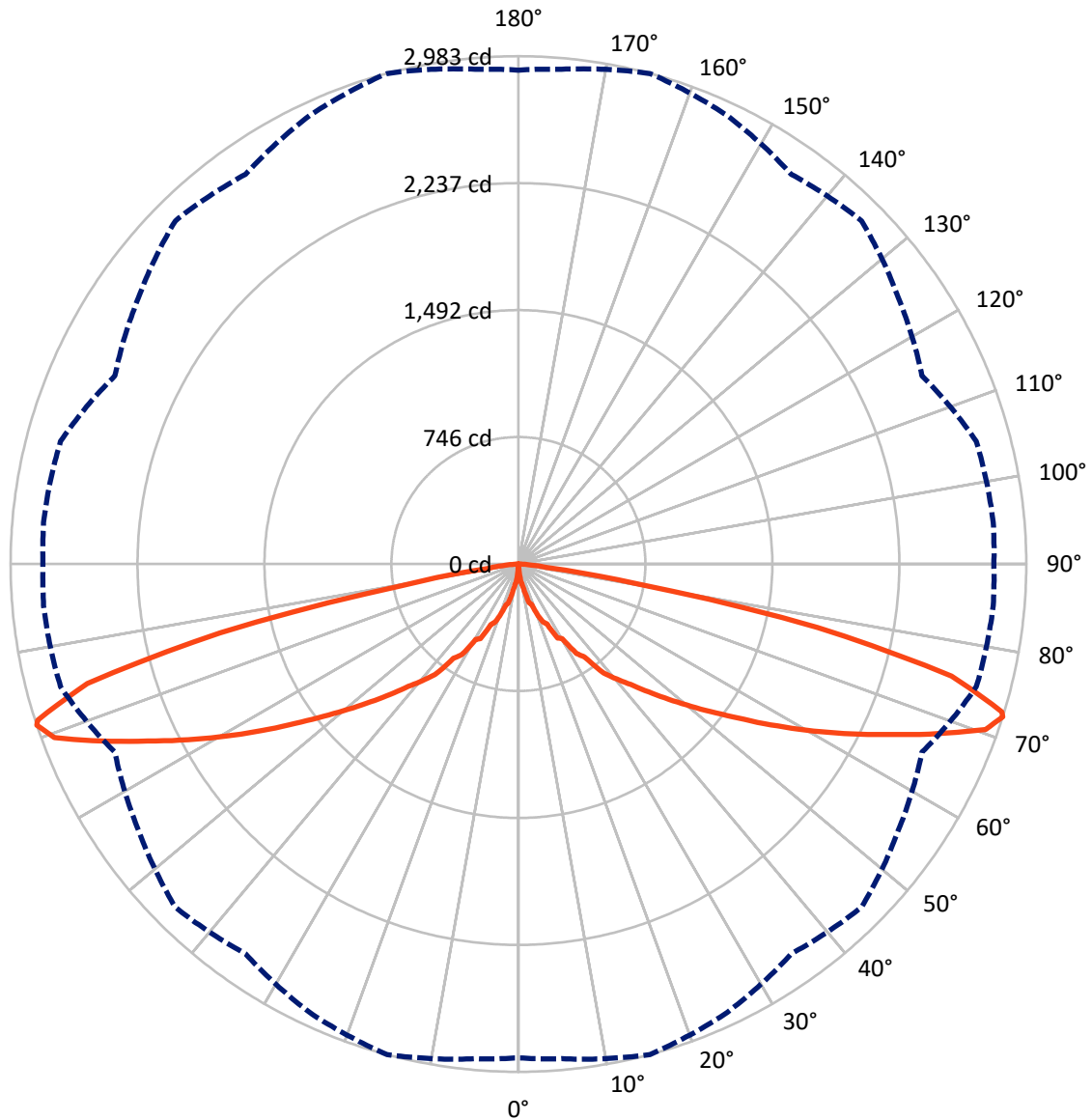
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical



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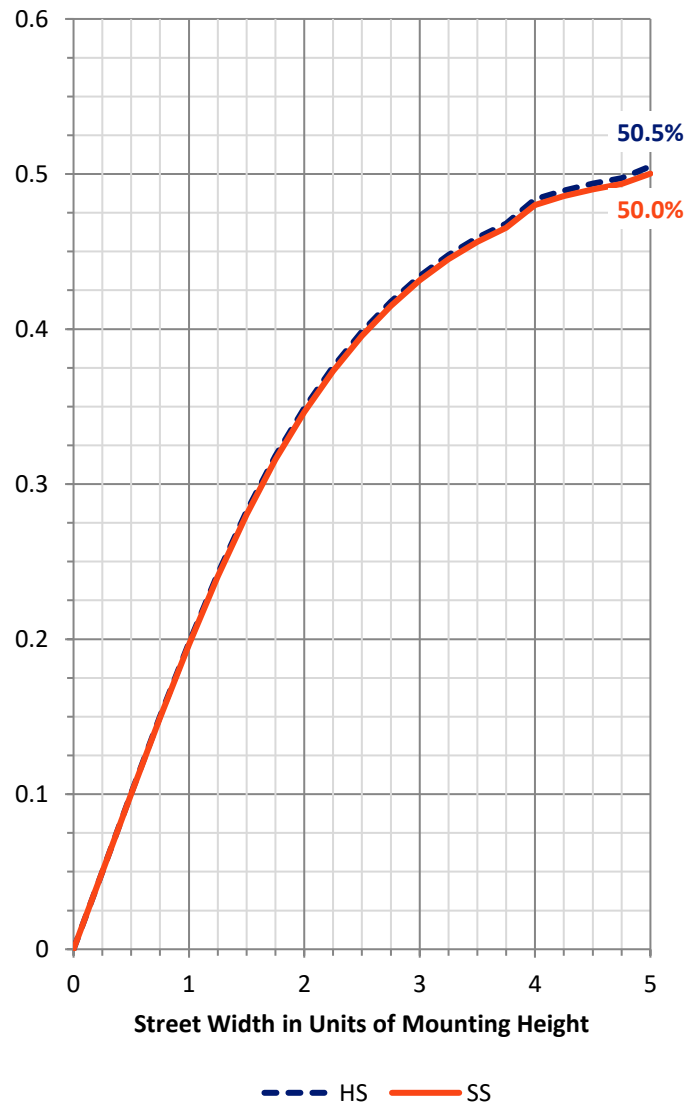
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3960.4 | 0.0 | 3960.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3960.4 | 0.0 | 3960.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 7920.7 | 0.0 | 7920.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 3.7 | 0.0 |
| 10°-20° | 53.7 | 0.7 |
| 20°-30° | 196.6 | 2.5 |
| 30°-40° | 433.9 | 5.5 |
| 40°-50° | 777.7 | 9.8 |
| 50°-60° | 1375.0 | 17.4 |
| 60°-70° | 2312.7 | 29.2 |
| 70°-80° | 2476.3 | 31.3 |
| 80°-90° | 291.0 | 3.7 |
| 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° | 7920.7 | 100.0 |
| 0°-180° | 7920.7 | 100.0 |



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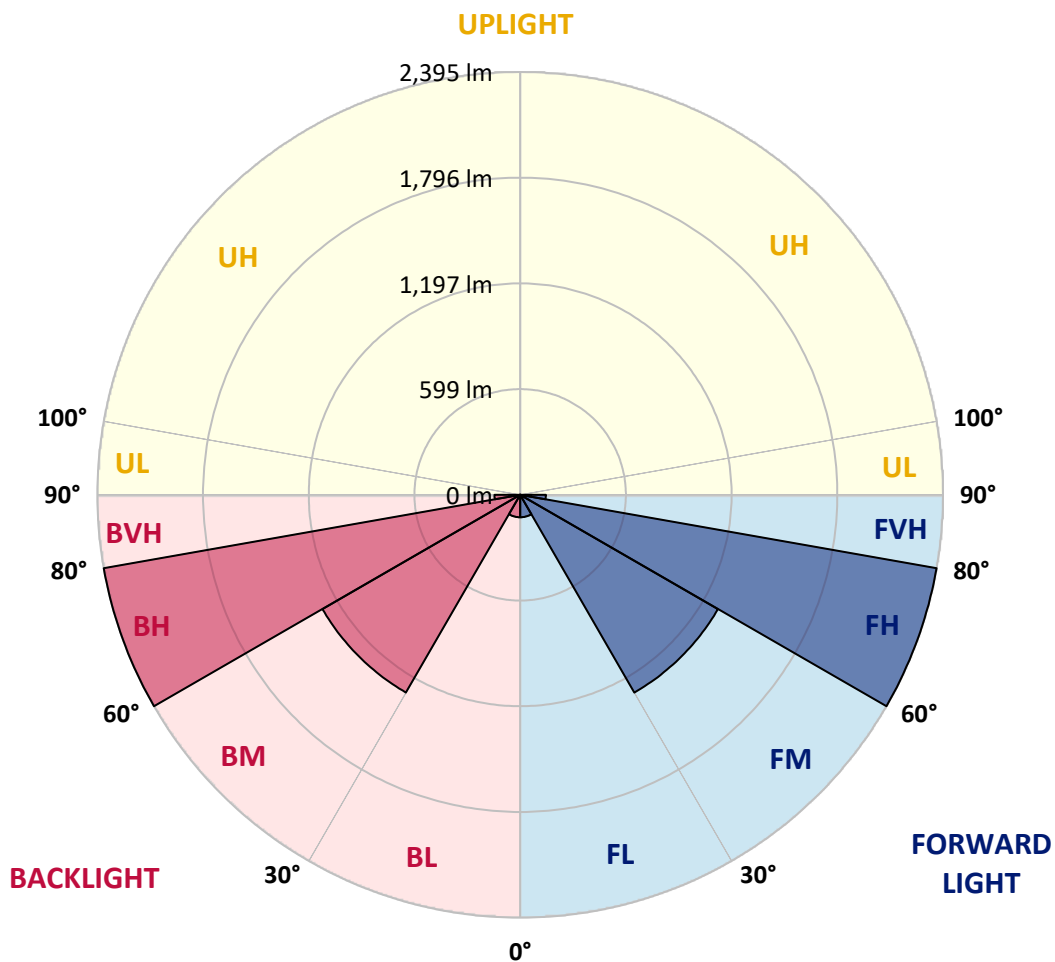
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 127.0 | 1.6 | | | |
| FM (30°-60°) | 1293.3 | 16.3 | | | |
| FH (60°-80°) | 2394.5 | 30.2 | | | G2/5000 |
| FVH (80°-90°) | 145.5 | 1.8 | | | G2/225 |
| BL (0°-30°) | 127.0 | 1.6 | B1/500 | | |
| BM (30°-60°) | 1293.3 | 16.3 | B2/2500 | | |
| BH (60°-80°) | 2394.5 | 30.2 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 145.5 | 1.8 | | | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 2.5° | 2.6 | 2.6 | 2.6 | 2.6 | 1.7 | 1.7 | 0.8 | 0.8 | 1.7 | 1.7 | 1.7 |
| 5° | 49.7 | 48.9 | 36.8 | 17.2 | 13.7 | 6.0 | 2.6 | 1.7 | 1.7 | 1.7 | 1.7 |
| 7.5° | 114.1 | 111.4 | 108.8 | 92.6 | 71.2 | 50.5 | 14.5 | 3.5 | 2.6 | 1.7 | 1.7 |
| 10° | 124.3 | 124.3 | 122.5 | 120.0 | 116.6 | 105.5 | 59.1 | 13.7 | 6.0 | 5.1 | 5.1 |
| 12.5° | 180.9 | 180.0 | 171.4 | 133.7 | 121.7 | 119.2 | 99.4 | 53.2 | 35.2 | 72.0 | 85.7 |
| 15° | 246.9 | 245.2 | 237.4 | 214.3 | 174.9 | 129.4 | 156.0 | 192.0 | 166.3 | 177.5 | 178.3 |
| 17.5° | 261.5 | 258.9 | 249.5 | 240.9 | 226.3 | 217.8 | 243.5 | 234.1 | 185.2 | 187.7 | 188.6 |
| 20° | 336.9 | 342.1 | 314.7 | 271.8 | 249.5 | 325.8 | 268.3 | 257.2 | 304.3 | 337.8 | 348.0 |
| 22.5° | 379.7 | 378.1 | 369.5 | 348.9 | 363.5 | 337.8 | 327.4 | 368.7 | 369.5 | 374.6 | 376.3 |
| 25° | 441.5 | 439.8 | 390.1 | 371.2 | 426.9 | 369.5 | 431.2 | 392.6 | 402.9 | 432.9 | 458.6 |
| 27.5° | 504.9 | 502.4 | 492.0 | 441.5 | 440.6 | 486.1 | 450.1 | 485.2 | 537.5 | 556.4 | 566.6 |
| 30° | 564.1 | 551.3 | 508.4 | 522.1 | 486.1 | 511.8 | 519.5 | 546.1 | 558.9 | 589.8 | 595.8 |
| 32.5° | 651.5 | 649.0 | 626.7 | 562.3 | 574.4 | 542.7 | 578.7 | 576.1 | 708.1 | 765.6 | 784.4 |
| 35° | 744.1 | 718.4 | 672.1 | 649.0 | 613.8 | 640.4 | 602.6 | 696.9 | 739.8 | 809.3 | 820.4 |
| 37.5° | 865.8 | 864.1 | 813.6 | 709.0 | 678.1 | 673.0 | 709.0 | 731.2 | 787.9 | 858.2 | 867.6 |
| 40° | 931.0 | 931.0 | 888.1 | 805.9 | 739.0 | 732.9 | 753.5 | 784.4 | 845.3 | 920.7 | 928.4 |
| 42.5° | 1009.9 | 1009.9 | 967.0 | 878.7 | 838.4 | 805.9 | 811.0 | 847.8 | 913.0 | 1001.3 | 1011.6 |
| 45° | 1102.4 | 1102.4 | 1072.5 | 956.7 | 920.7 | 884.6 | 902.7 | 938.7 | 1015.0 | 1102.4 | 1115.3 |
| 47.5° | 1213.9 | 1210.5 | 1186.4 | 1057.8 | 1021.0 | 978.1 | 1003.0 | 1041.6 | 1121.3 | 1213.9 | 1223.3 |
| 50° | 1333.0 | 1330.4 | 1313.4 | 1179.6 | 1125.6 | 1095.6 | 1118.7 | 1149.6 | 1240.4 | 1337.3 | 1347.6 |
| 52.5° | 1459.0 | 1458.2 | 1451.4 | 1327.1 | 1255.9 | 1232.8 | 1252.5 | 1282.5 | 1371.7 | 1476.2 | 1485.6 |
| 55° | 1610.8 | 1615.1 | 1610.8 | 1506.2 | 1420.5 | 1409.3 | 1417.9 | 1437.7 | 1525.1 | 1625.4 | 1631.4 |
| 57.5° | 1777.1 | 1779.7 | 1795.1 | 1723.1 | 1628.8 | 1610.8 | 1616.0 | 1629.7 | 1698.2 | 1780.5 | 1786.6 |
| 60° | 1954.6 | 1961.4 | 1991.4 | 1939.1 | 1860.2 | 1862.0 | 1846.5 | 1810.5 | 1884.3 | 1942.6 | 1941.7 |
| 62.5° | 2132.9 | 2140.6 | 2197.2 | 2154.3 | 2096.8 | 2128.6 | 2084.9 | 1994.0 | 2078.8 | 2119.1 | 2111.5 |
| 65° | 2328.3 | 2347.2 | 2414.1 | 2397.8 | 2312.9 | 2381.5 | 2313.7 | 2192.0 | 2307.8 | 2310.3 | 2310.3 |
| 67.5° | 2572.6 | 2590.6 | 2659.3 | 2629.2 | 2503.3 | 2582.1 | 2504.1 | 2392.6 | 2509.2 | 2495.5 | 2502.3 |
| 70° | 2839.3 | 2857.3 | 2910.4 | 2810.1 | 2672.0 | 2739.0 | 2653.2 | 2540.9 | 2709.0 | 2732.9 | 2727.0 |
| 72° | 2901.0 | 2917.3 | 2983.3 | 2905.3 | 2794.7 | 2850.5 | 2725.2 | 2615.5 | 2784.4 | 2799.8 | 2793.0 |
| 72.5° | 2882.2 | 2896.7 | 2970.4 | 2905.3 | 2814.4 | 2875.3 | 2735.6 | 2617.2 | 2772.4 | 2783.6 | 2774.1 |
| 75° | 2495.5 | 2522.1 | 2627.6 | 2695.3 | 2783.6 | 2949.9 | 2695.3 | 2463.0 | 2488.6 | 2456.1 | 2416.6 |
| 77.5° | 1608.2 | 1581.7 | 1797.7 | 2073.7 | 2388.4 | 2744.1 | 2364.3 | 1946.0 | 1752.2 | 1590.2 | 1519.1 |
| 80° | 476.6 | 503.2 | 695.2 | 1033.0 | 1615.1 | 2058.3 | 1642.6 | 1045.0 | 639.5 | 447.5 | 426.9 |
| 82.5° | 95.1 | 118.3 | 173.2 | 271.8 | 691.0 | 1124.7 | 685.8 | 309.4 | 209.2 | 162.0 | 150.1 |
| 85° | 36.8 | 37.7 | 75.4 | 85.7 | 116.6 | 228.0 | 164.6 | 107.2 | 102.0 | 67.7 | 60.9 |
| 87.5° | 5.1 | 6.9 | 12.0 | 14.5 | 13.7 | 7.7 | 16.3 | 11.2 | 6.0 | 6.0 | 4.3 |
| 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)