

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: P416377

Luminaire Tested: **LXF.LXT-PA1-70-750-U-5WQ**

Issue Date: 10/26/2020

Test Information

Test Method: LM-79-08
Report Number: P416377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/26/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-PA1-70-750-U-5WQ
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 5000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8912 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G2

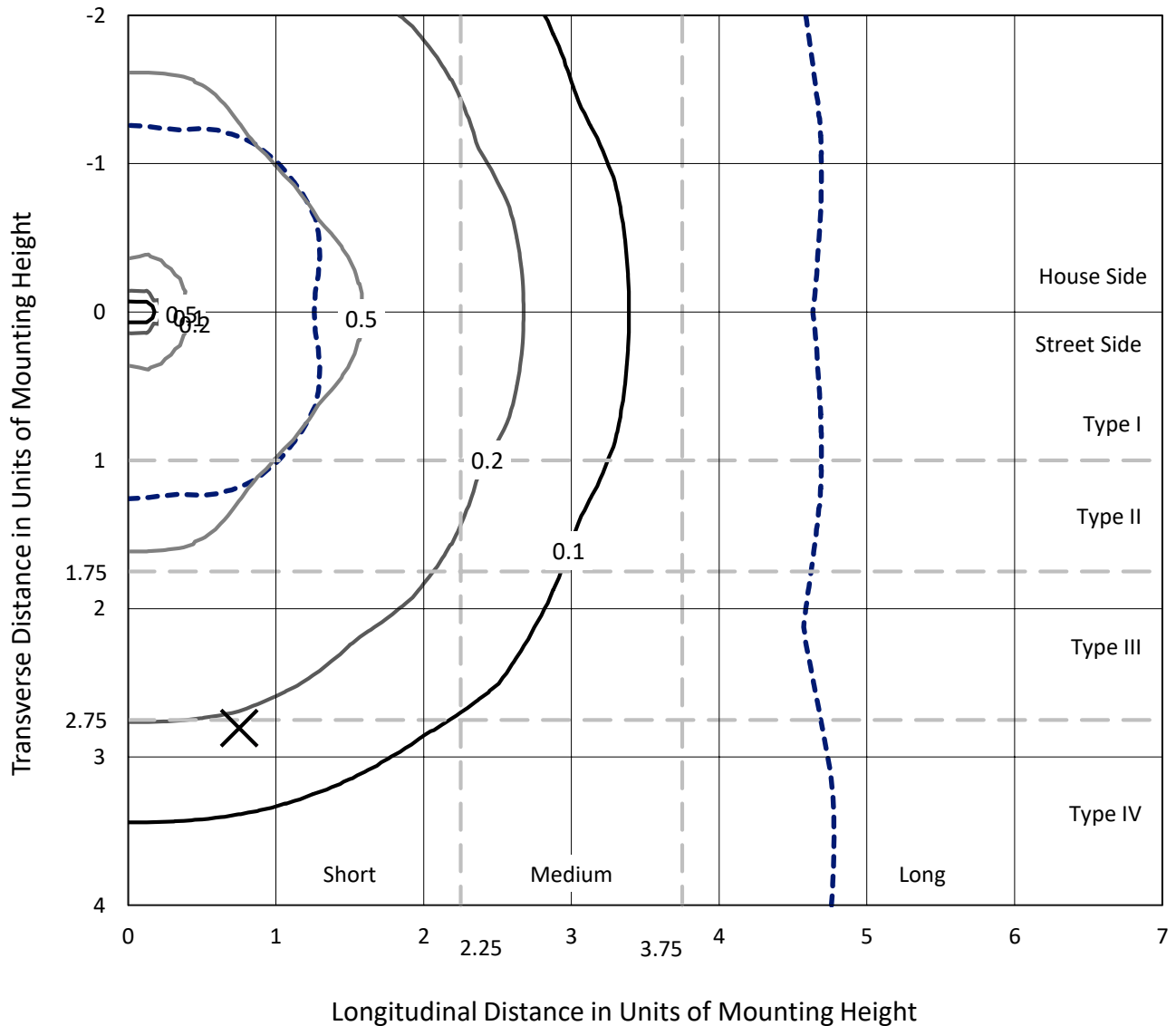
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

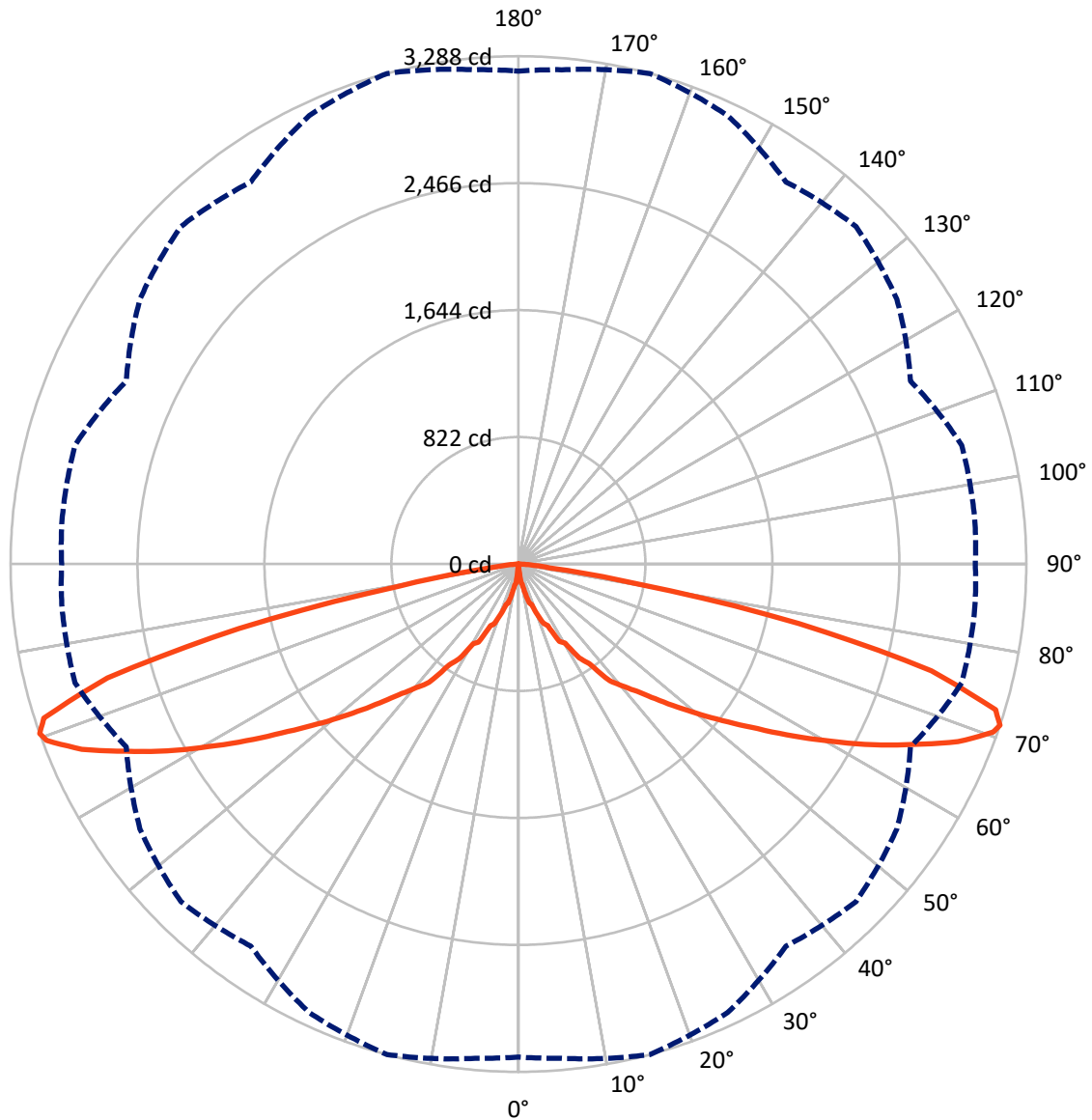
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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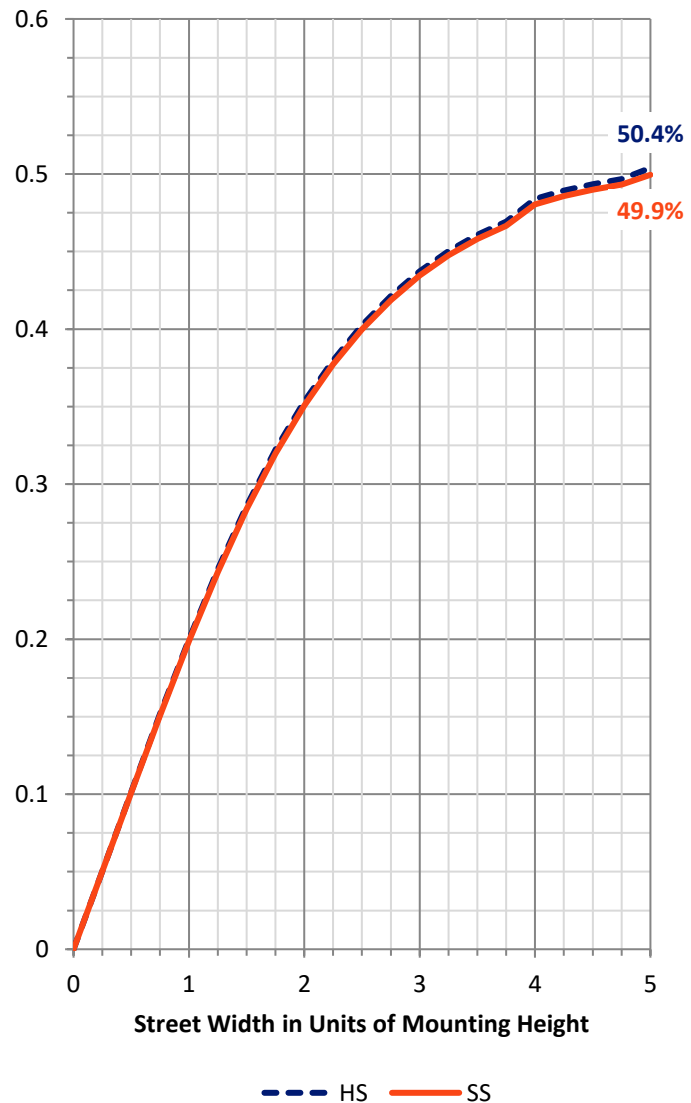
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4456.0 | 0.0 | 4456.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4456.0 | 0.0 | 4456.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 8912.0 | 0.0 | 8912.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 4.0 | 0.0 |
| 10°-20° | 59.1 | 0.7 |
| 20°-30° | 223.2 | 2.5 |
| 30°-40° | 505.6 | 5.7 |
| 40°-50° | 903.4 | 10.1 |
| 50°-60° | 1589.9 | 17.8 |
| 60°-70° | 2630.1 | 29.5 |
| 70°-80° | 2659.8 | 29.8 |
| 80°-90° | 337.0 | 3.8 |
| 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° | 8912.0 | 100.0 |
| 0°-180° | 8912.0 | 100.0 |



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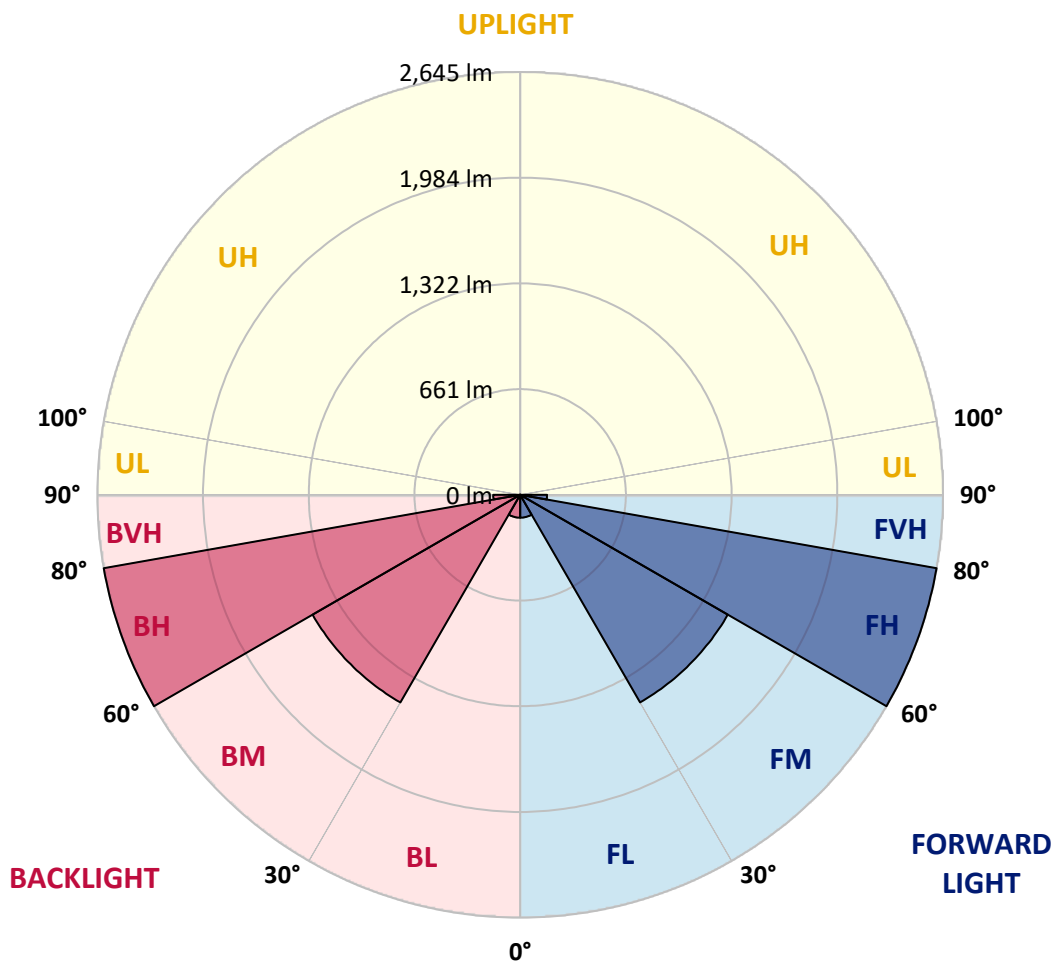
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 143.1 | 1.6 | | | |
| FM | (30°-60°) | 1499.4 | 16.8 | | | |
| FH | (60°-80°) | 2644.9 | 29.7 | | | G2/5000 |
| FVH | (80°-90°) | 168.5 | 1.9 | | | G2/225 |
| BL | (0°-30°) | 143.1 | 1.6 | B1/500 | | |
| BM | (30°-60°) | 1499.4 | 16.8 | B2/2500 | | |
| BH | (60°-80°) | 2644.9 | 29.7 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 168.5 | 1.9 | | | 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° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 2.5° | 2.7 | 2.7 | 1.8 | 1.8 | 1.8 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 5° | 54.9 | 39.3 | 19.2 | 15.6 | 11.0 | 3.7 | 1.8 | 1.8 | 1.8 | 0.9 | 0.9 |
| 7.5° | 123.5 | 122.6 | 120.8 | 105.2 | 74.1 | 54.9 | 11.9 | 2.7 | 1.8 | 1.8 | 1.8 |
| 10° | 137.2 | 136.3 | 135.4 | 132.7 | 129.0 | 117.1 | 61.3 | 11.9 | 4.6 | 5.5 | 5.5 |
| 12.5° | 197.6 | 196.7 | 188.5 | 146.4 | 133.6 | 130.8 | 110.7 | 56.7 | 48.5 | 91.5 | 97.0 |
| 15° | 269.9 | 269.0 | 259.8 | 223.2 | 191.2 | 140.9 | 183.0 | 203.1 | 181.1 | 200.4 | 200.4 |
| 17.5° | 286.4 | 283.6 | 274.5 | 265.3 | 252.5 | 245.2 | 269.9 | 259.8 | 201.3 | 215.0 | 215.0 |
| 20° | 385.2 | 366.0 | 347.7 | 295.5 | 273.6 | 358.6 | 290.9 | 283.6 | 318.4 | 376.0 | 386.1 |
| 22.5° | 427.3 | 426.3 | 417.2 | 393.4 | 388.8 | 376.0 | 362.3 | 412.6 | 420.8 | 428.2 | 430.9 |
| 25° | 503.2 | 497.7 | 441.0 | 421.8 | 483.1 | 411.7 | 488.5 | 446.5 | 461.1 | 528.8 | 536.1 |
| 27.5° | 581.0 | 579.1 | 567.2 | 505.9 | 505.9 | 547.1 | 514.2 | 539.8 | 614.8 | 641.3 | 651.4 |
| 30° | 649.6 | 614.8 | 592.8 | 602.9 | 560.8 | 586.4 | 588.3 | 632.2 | 650.5 | 684.3 | 693.5 |
| 32.5° | 763.0 | 760.3 | 724.6 | 656.9 | 658.7 | 621.2 | 672.4 | 668.8 | 817.9 | 894.8 | 914.9 |
| 35° | 846.3 | 852.7 | 792.3 | 765.8 | 703.5 | 740.1 | 719.1 | 813.3 | 861.8 | 949.6 | 962.5 |
| 37.5° | 1010.0 | 1009.1 | 959.7 | 828.0 | 783.1 | 782.2 | 820.7 | 855.4 | 928.6 | 1009.1 | 1017.4 |
| 40° | 1080.5 | 1078.6 | 1037.5 | 959.7 | 844.4 | 852.7 | 874.6 | 906.6 | 988.1 | 1079.6 | 1084.1 |
| 42.5° | 1178.4 | 1169.2 | 1127.1 | 1023.8 | 961.5 | 945.1 | 950.6 | 989.9 | 1067.7 | 1176.5 | 1172.0 |
| 45° | 1277.2 | 1279.9 | 1243.3 | 1125.3 | 1064.0 | 1030.2 | 1040.2 | 1092.4 | 1179.3 | 1287.2 | 1286.3 |
| 47.5° | 1397.0 | 1400.7 | 1383.3 | 1236.0 | 1182.0 | 1135.4 | 1154.6 | 1206.7 | 1301.9 | 1407.1 | 1405.3 |
| 50° | 1545.2 | 1544.3 | 1532.4 | 1371.4 | 1315.6 | 1269.9 | 1284.5 | 1328.4 | 1429.0 | 1533.3 | 1544.3 |
| 52.5° | 1696.2 | 1699.9 | 1698.0 | 1535.2 | 1473.9 | 1430.0 | 1443.7 | 1484.9 | 1582.7 | 1687.0 | 1696.2 |
| 55° | 1866.4 | 1883.7 | 1881.9 | 1746.5 | 1650.4 | 1638.6 | 1646.8 | 1655.9 | 1763.9 | 1865.4 | 1867.3 |
| 57.5° | 2076.8 | 2085.0 | 2101.5 | 1985.3 | 1877.3 | 1870.9 | 1855.4 | 1851.7 | 1957.8 | 2042.0 | 2029.2 |
| 60° | 2295.4 | 2303.7 | 2330.2 | 2255.2 | 2136.3 | 2149.1 | 2097.8 | 2042.0 | 2143.6 | 2211.3 | 2204.0 |
| 62.5° | 2505.0 | 2524.2 | 2576.3 | 2515.9 | 2406.1 | 2445.5 | 2347.6 | 2253.4 | 2347.6 | 2403.4 | 2392.4 |
| 65° | 2730.0 | 2753.8 | 2815.1 | 2791.3 | 2634.9 | 2718.1 | 2613.8 | 2456.5 | 2584.5 | 2612.0 | 2613.8 |
| 67.5° | 2977.9 | 2997.2 | 3070.3 | 3027.3 | 2833.4 | 2923.1 | 2837.1 | 2655.9 | 2796.8 | 2786.7 | 2776.7 |
| 70° | 3169.2 | 3192.9 | 3260.6 | 3171.0 | 2977.9 | 3053.0 | 2967.9 | 2782.2 | 2945.9 | 2951.4 | 2943.2 |
| 71° | 3192.0 | 3212.2 | 3288.1 | 3203.9 | 3020.0 | 3090.5 | 2990.8 | 2801.4 | 2971.5 | 2967.9 | 2957.8 |
| 72.5° | 3116.1 | 3140.8 | 3230.5 | 3176.5 | 3053.0 | 3137.1 | 2989.8 | 2770.3 | 2934.9 | 2901.1 | 2887.4 |
| 75° | 2639.4 | 2652.2 | 2762.0 | 2860.8 | 2934.0 | 3117.0 | 2823.3 | 2526.0 | 2635.8 | 2583.6 | 2577.2 |
| 77.5° | 1603.8 | 1636.7 | 1856.3 | 2159.1 | 2512.3 | 2805.9 | 2456.5 | 2042.9 | 1999.9 | 1845.3 | 1784.9 |
| 80° | 553.5 | 611.1 | 785.0 | 1104.3 | 1689.8 | 2168.3 | 1731.9 | 1248.8 | 934.1 | 703.5 | 650.5 |
| 82.5° | 92.4 | 134.5 | 204.0 | 345.8 | 759.4 | 1232.3 | 855.4 | 412.6 | 268.1 | 187.6 | 181.1 |
| 85° | 31.1 | 36.6 | 77.8 | 96.1 | 177.5 | 339.4 | 199.4 | 114.4 | 98.8 | 63.1 | 58.6 |
| 87.5° | 4.6 | 6.4 | 10.1 | 11.0 | 15.6 | 9.1 | 16.5 | 17.4 | 13.7 | 9.1 | 5.5 |
| 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)