

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: P253763

Luminaire Tested: **LXF.LXT-AF24-40-D-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253763
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-AF24-40-D-U-5WQ-7030
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 3000K, 500mA 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: 4481.8 lumens
Efficiency: N/A
Efficacy: 112.0 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 - G1

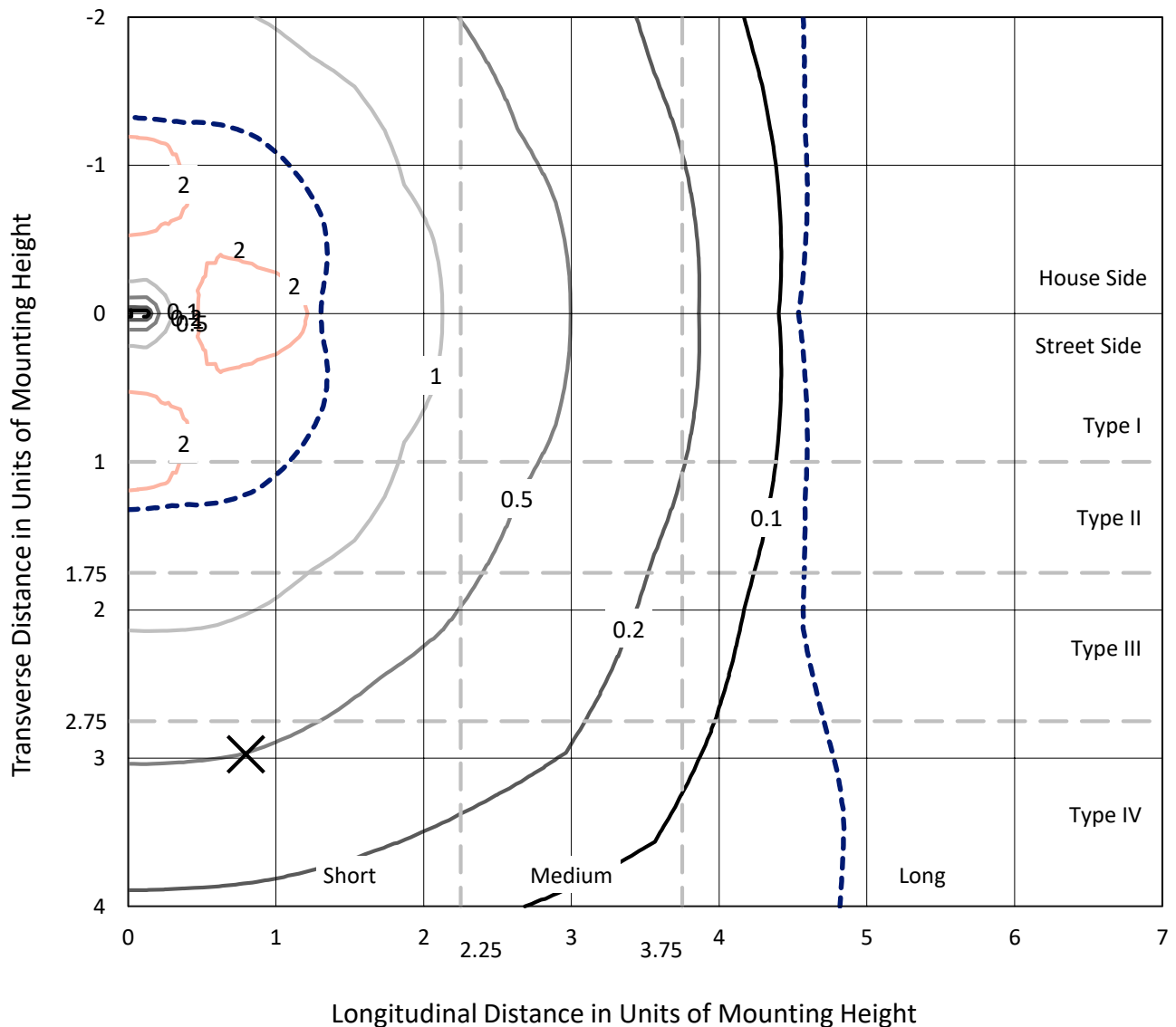
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

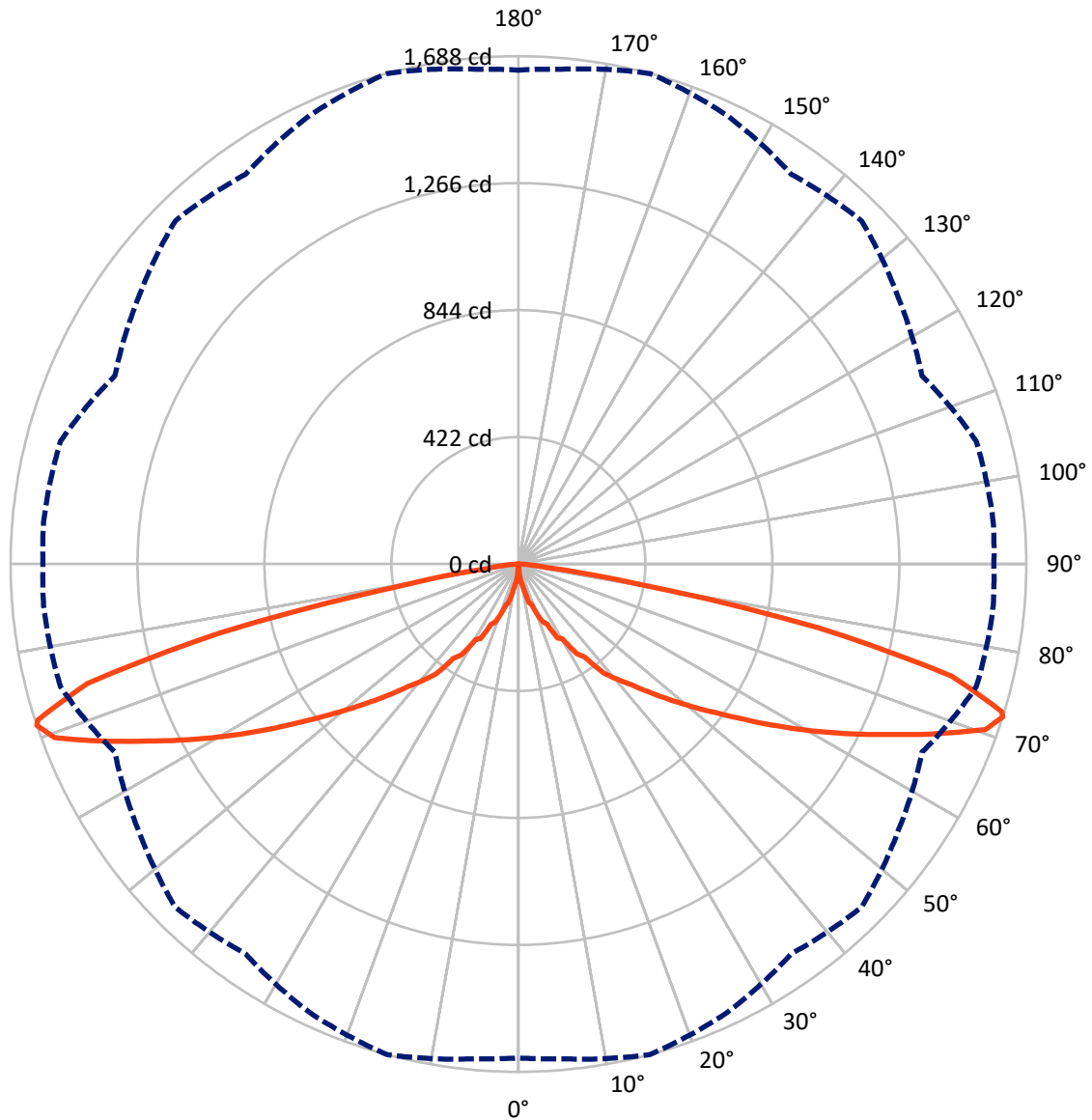
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.6 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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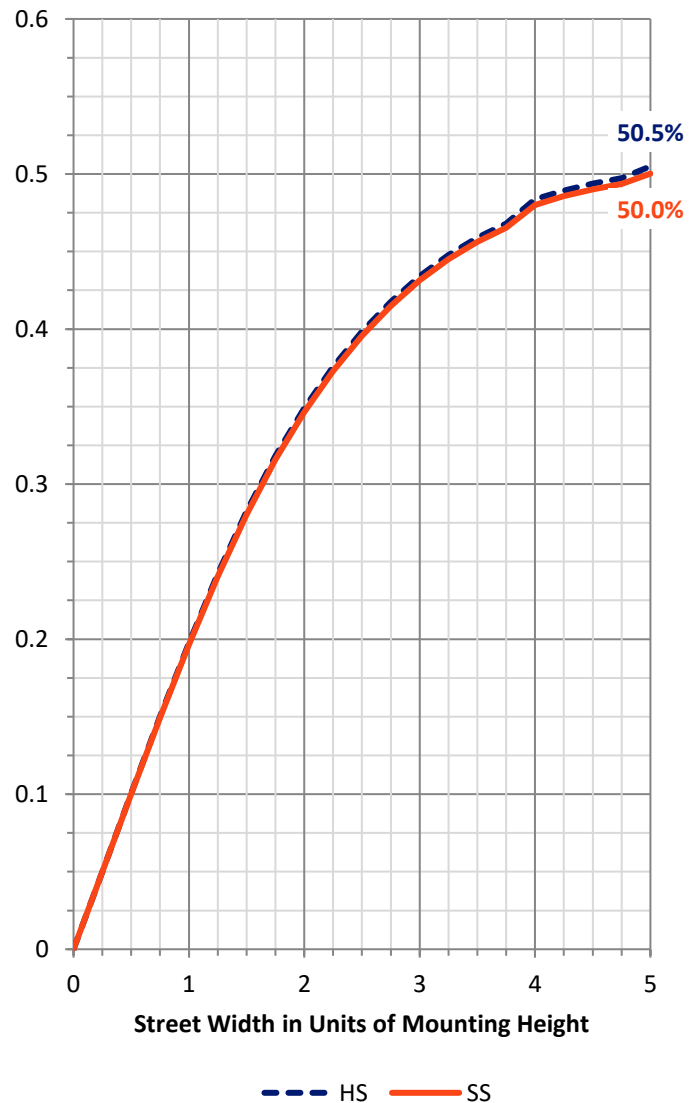
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2240.9 | 0.0 | 2240.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2240.9 | 0.0 | 2240.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 4481.8 | 0.0 | 4481.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 2.1 | 0.0 |
| 10°-20° | 30.4 | 0.7 |
| 20°-30° | 111.2 | 2.5 |
| 30°-40° | 245.5 | 5.5 |
| 40°-50° | 440.0 | 9.8 |
| 50°-60° | 778.0 | 17.4 |
| 60°-70° | 1308.6 | 29.2 |
| 70°-80° | 1401.2 | 31.3 |
| 80°-90° | 164.7 | 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° | 4481.8 | 100.0 |
| 0°-180° | 4481.8 | 100.0 |



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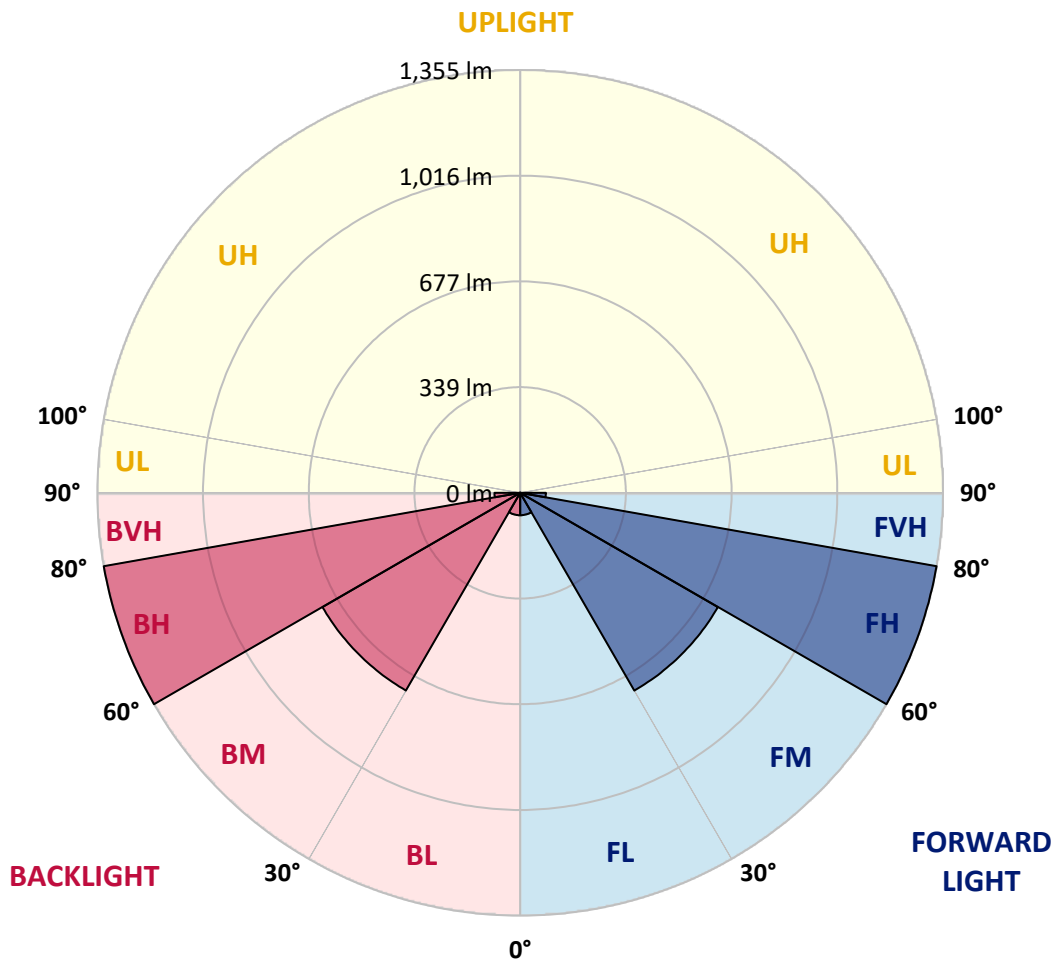
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 71.9 | 1.6 | | | |
| FM (30°-60°) | 731.8 | 16.3 | | | |
| FH (60°-80°) | 1354.9 | 30.2 | | | G1/1800 |
| FVH (80°-90°) | 82.3 | 1.8 | | | G1/100 |
| BL (0°-30°) | 71.9 | 1.6 | B0/110 | | |
| BM (30°-60°) | 731.8 | 16.3 | B1/1000 | | |
| BH (60°-80°) | 1354.9 | 30.2 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 82.3 | 1.8 | | | 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° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 2.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.0 | 1.0 | 0.4 | 0.4 | 1.0 | 1.0 | 1.0 |
| 5° | 28.1 | 27.7 | 20.9 | 9.8 | 7.7 | 3.4 | 1.4 | 1.0 | 1.0 | 1.0 | 1.0 |
| 7.5° | 64.5 | 63.1 | 61.6 | 52.3 | 40.2 | 28.6 | 8.2 | 1.9 | 1.4 | 1.0 | 1.0 |
| 10° | 70.4 | 70.4 | 69.4 | 68.0 | 66.0 | 59.6 | 33.5 | 7.7 | 3.4 | 2.9 | 2.9 |
| 12.5° | 102.3 | 101.8 | 97.0 | 75.7 | 68.9 | 67.4 | 56.3 | 30.0 | 19.8 | 40.8 | 48.5 |
| 15° | 139.8 | 138.8 | 134.4 | 121.3 | 99.0 | 73.2 | 88.3 | 108.6 | 94.1 | 100.4 | 100.8 |
| 17.5° | 147.9 | 146.5 | 141.2 | 136.3 | 128.1 | 123.3 | 137.7 | 132.4 | 104.8 | 106.2 | 106.7 |
| 20° | 190.6 | 193.5 | 178.0 | 153.7 | 141.2 | 184.3 | 151.9 | 145.6 | 172.2 | 191.1 | 196.8 |
| 22.5° | 214.9 | 213.9 | 209.0 | 197.4 | 205.6 | 191.1 | 185.3 | 208.5 | 209.0 | 212.0 | 212.9 |
| 25° | 249.7 | 248.9 | 220.7 | 210.0 | 241.6 | 209.0 | 243.9 | 222.2 | 228.1 | 245.0 | 259.5 |
| 27.5° | 285.7 | 284.3 | 278.4 | 249.7 | 249.3 | 275.0 | 254.7 | 274.6 | 304.2 | 314.7 | 320.6 |
| 30° | 319.1 | 311.9 | 287.7 | 295.4 | 275.0 | 289.5 | 293.9 | 308.9 | 316.3 | 333.7 | 337.2 |
| 32.5° | 368.6 | 367.2 | 354.5 | 318.2 | 325.0 | 307.0 | 327.4 | 325.9 | 400.7 | 433.2 | 443.8 |
| 35° | 421.0 | 406.5 | 380.3 | 367.2 | 347.3 | 362.3 | 341.0 | 394.3 | 418.6 | 457.9 | 464.3 |
| 37.5° | 489.9 | 488.9 | 460.3 | 401.2 | 383.7 | 380.8 | 401.2 | 413.8 | 445.8 | 485.5 | 490.9 |
| 40° | 526.7 | 526.7 | 502.5 | 455.9 | 418.1 | 414.7 | 426.3 | 443.8 | 478.2 | 520.9 | 525.3 |
| 42.5° | 571.4 | 571.4 | 547.2 | 497.2 | 474.4 | 455.9 | 458.9 | 479.7 | 516.6 | 566.5 | 572.4 |
| 45° | 623.8 | 623.8 | 606.8 | 541.4 | 520.9 | 500.6 | 510.8 | 531.1 | 574.3 | 623.8 | 631.1 |
| 47.5° | 686.9 | 684.9 | 671.3 | 598.6 | 577.8 | 553.5 | 567.5 | 589.4 | 634.5 | 686.9 | 692.1 |
| 50° | 754.3 | 752.8 | 743.2 | 667.5 | 636.9 | 619.9 | 633.0 | 650.5 | 701.9 | 756.7 | 762.5 |
| 52.5° | 825.6 | 825.1 | 821.2 | 750.9 | 710.6 | 697.5 | 708.6 | 725.7 | 776.1 | 835.3 | 840.6 |
| 55° | 911.4 | 913.9 | 911.4 | 852.2 | 803.7 | 797.5 | 802.3 | 813.4 | 862.9 | 919.8 | 923.1 |
| 57.5° | 1005.5 | 1007.1 | 1015.8 | 975.0 | 921.6 | 911.4 | 914.4 | 922.1 | 960.9 | 1007.5 | 1010.8 |
| 60° | 1105.9 | 1109.8 | 1126.8 | 1097.2 | 1052.6 | 1053.6 | 1044.8 | 1024.6 | 1066.2 | 1099.1 | 1098.7 |
| 62.5° | 1206.9 | 1211.2 | 1243.3 | 1219.0 | 1186.4 | 1204.5 | 1179.7 | 1128.3 | 1176.2 | 1199.1 | 1194.8 |
| 65° | 1317.4 | 1328.1 | 1366.0 | 1356.8 | 1308.7 | 1347.5 | 1309.3 | 1240.3 | 1305.7 | 1307.3 | 1307.3 |
| 67.5° | 1455.7 | 1465.9 | 1504.7 | 1487.7 | 1416.4 | 1461.1 | 1416.9 | 1353.8 | 1419.9 | 1412.0 | 1415.9 |
| 70° | 1606.5 | 1616.7 | 1646.9 | 1590.0 | 1511.9 | 1549.9 | 1501.3 | 1437.8 | 1532.8 | 1546.4 | 1543.0 |
| 72° | 1641.5 | 1650.7 | 1688.0 | 1644.0 | 1581.3 | 1612.8 | 1542.0 | 1479.9 | 1575.5 | 1584.3 | 1580.3 |
| 72.5° | 1630.8 | 1639.1 | 1680.7 | 1644.0 | 1592.5 | 1627.0 | 1547.8 | 1480.9 | 1568.8 | 1575.0 | 1569.7 |
| 75° | 1412.0 | 1427.0 | 1486.7 | 1525.0 | 1575.0 | 1669.2 | 1525.0 | 1393.6 | 1408.2 | 1389.8 | 1367.4 |
| 77.5° | 910.0 | 895.0 | 1017.2 | 1173.3 | 1351.4 | 1552.7 | 1337.9 | 1101.2 | 991.5 | 899.9 | 859.6 |
| 80° | 269.7 | 284.7 | 393.5 | 584.5 | 913.9 | 1164.7 | 929.4 | 591.3 | 361.8 | 253.2 | 241.6 |
| 82.5° | 53.9 | 66.9 | 98.0 | 153.7 | 390.9 | 636.4 | 388.1 | 175.2 | 118.3 | 91.7 | 84.9 |
| 85° | 20.9 | 21.3 | 42.7 | 48.5 | 66.0 | 129.0 | 93.1 | 60.6 | 57.7 | 38.4 | 34.4 |
| 87.5° | 2.9 | 4.0 | 6.8 | 8.2 | 7.7 | 4.4 | 9.2 | 6.3 | 3.4 | 3.4 | 2.4 |
| 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)