

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: P157594

Luminaire Tested: **VST-F07-LED-E-U-5WQ-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P157594  
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: STREETWORKS  
Catalog Number: VST-F07-LED-E-U-5WQ-7030  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (49) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16665.1 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G2

Input Watts (W): 180.5  
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



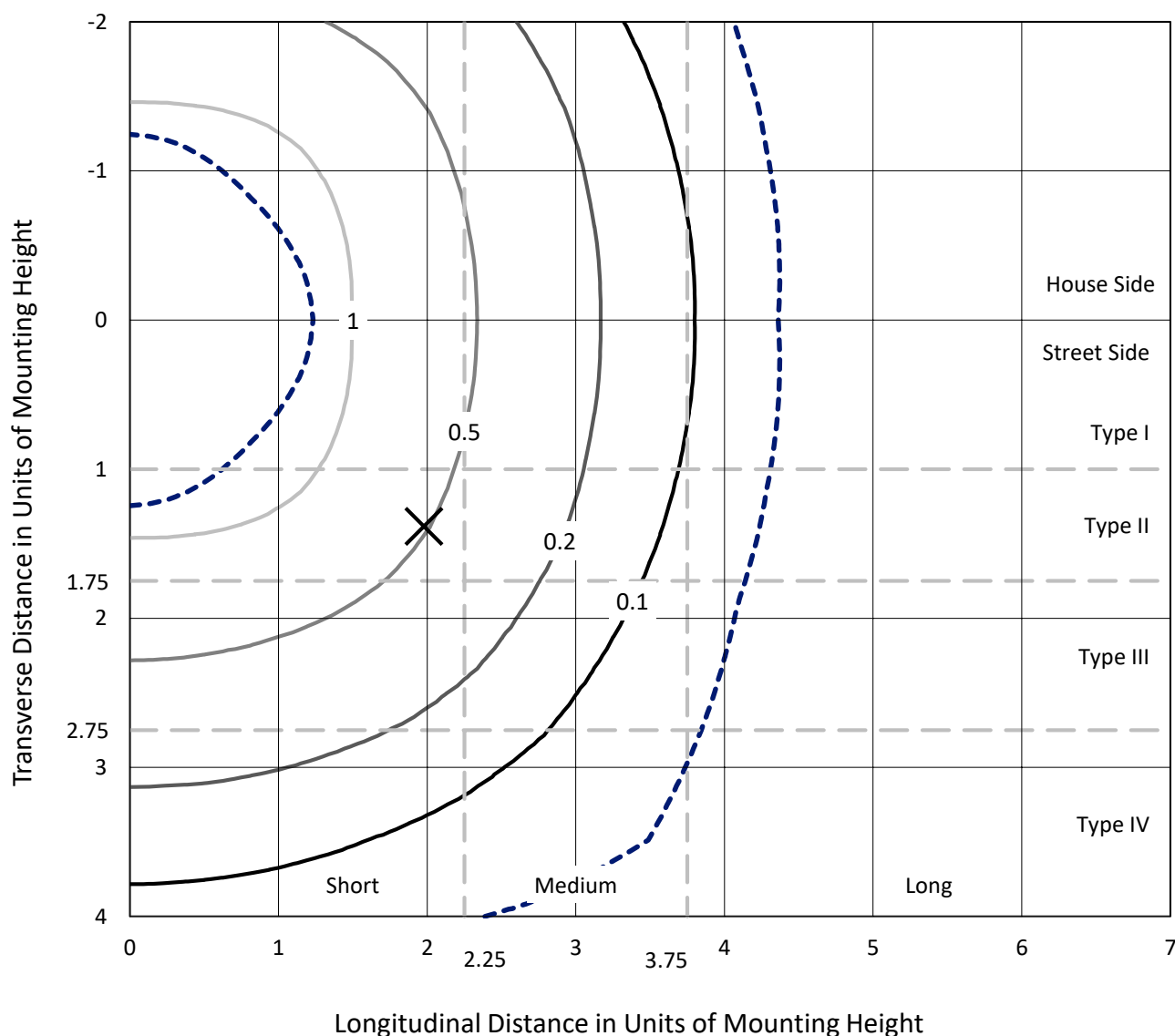
REPORT NUMBER: P157594

CATALOG NUMBER: VST-F07-LED-E-U-5WQ-7030

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

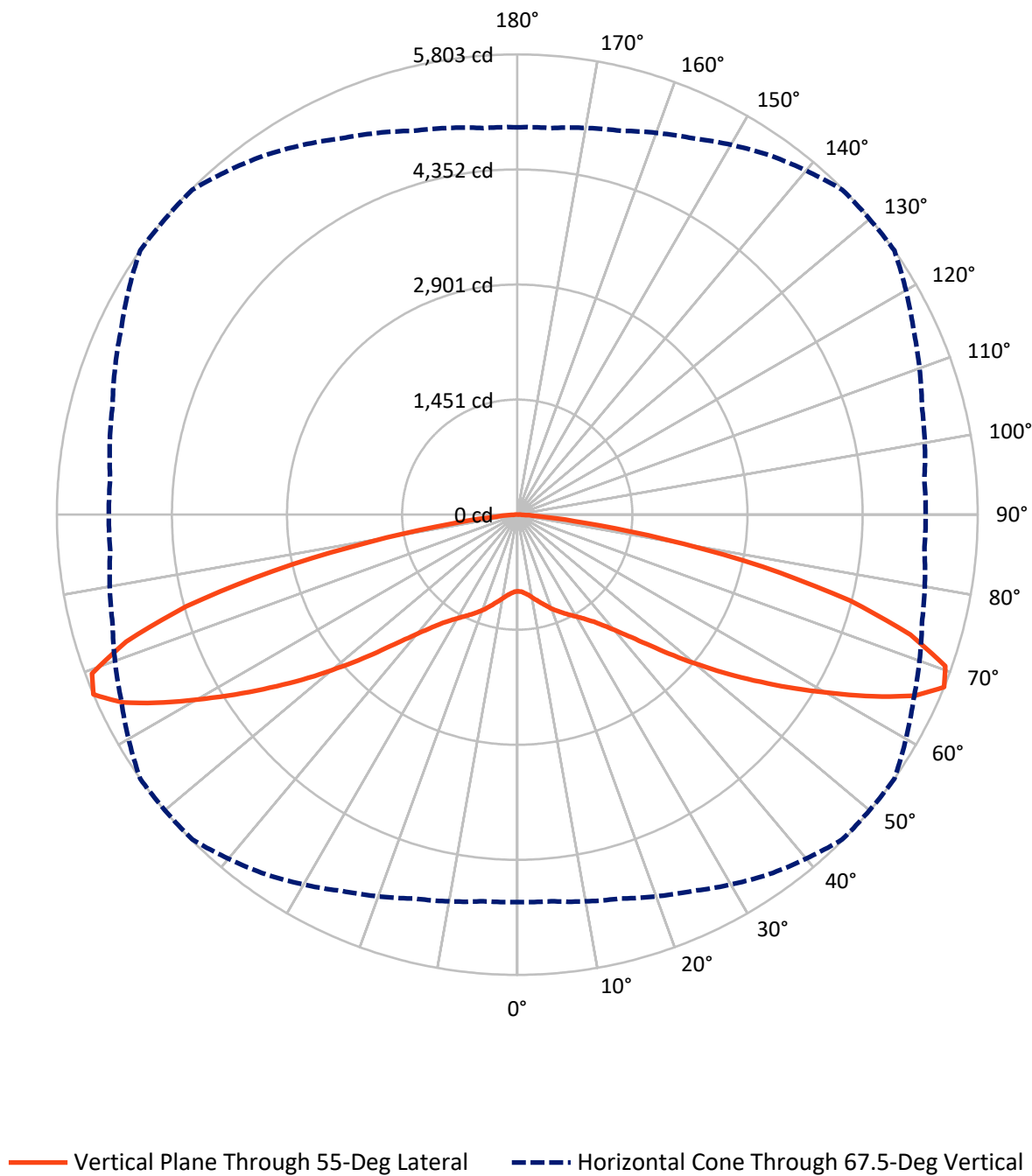


Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P157594

CATALOG NUMBER: VST-F07-LED-E-U-5WQ-7030

## Luminous Intensity Polar Plot



REPORT NUMBER: P157594

CATALOG NUMBER: VST-F07-LED-E-U-5WQ-7030

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8332.6   | 0.0    | 8332.6  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 8332.6   | 0.0    | 8332.6  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 16665.1  | 0.0    | 16665.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 97.0    | 0.6       |
| 10°-20°   | 331.6   | 2.0       |
| 20°-30°   | 637.6   | 3.8       |
| 30°-40°   | 1044.4  | 6.3       |
| 40°-50°   | 1815.7  | 10.9      |
| 50°-60°   | 3240.9  | 19.4      |
| 60°-70°   | 5003.7  | 30.0      |
| 70°-80°   | 4050.5  | 24.3      |
| 80°-90°   | 443.7   | 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°    | 16665.1 | 100.0     |
| 0°-180°   | 16665.1 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P157594

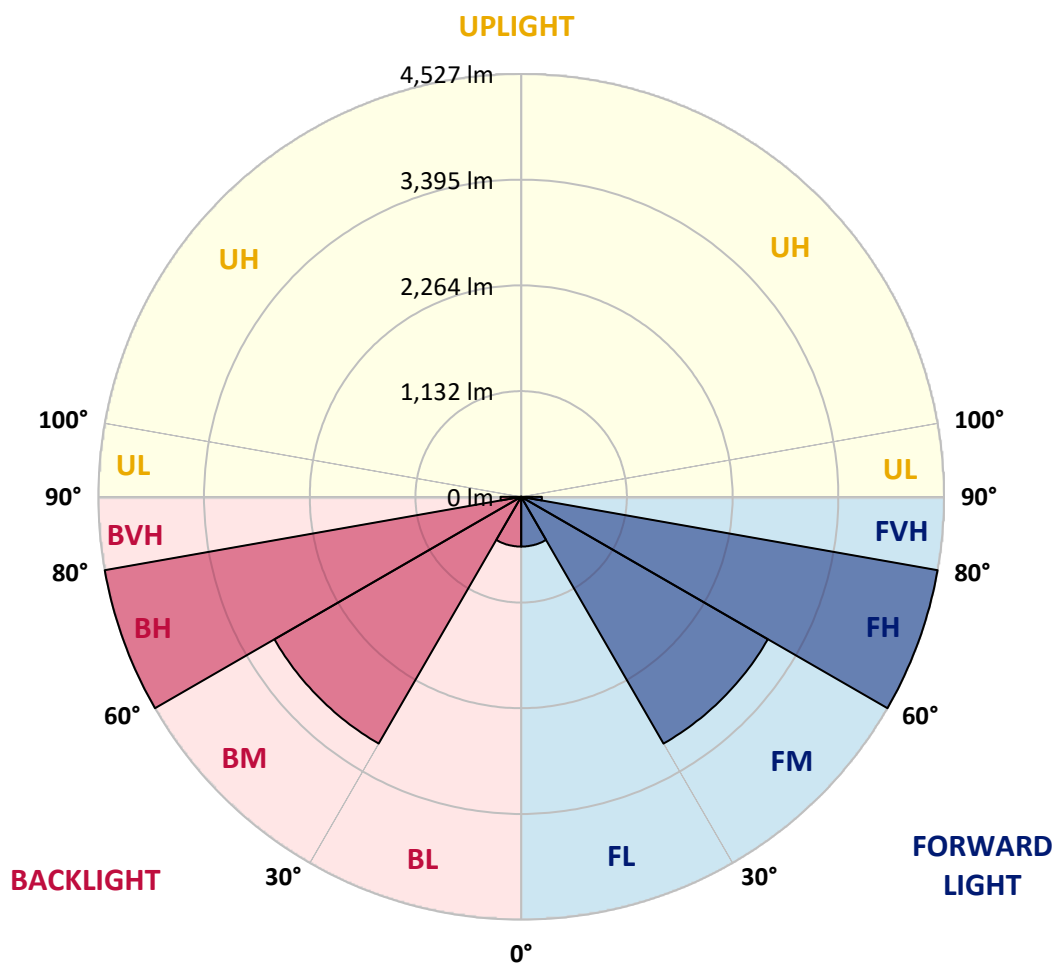
CATALOG NUMBER: VST-F07-LED-E-U-5WQ-7030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 533.1  | 3.2       |                         |      |         |
| FM   | (30°-60°)   | 3050.5 | 18.3      |                         |      |         |
| FH   | (60°-80°)   | 4527.1 | 27.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 221.8  | 1.3       |                         |      | G2/225  |
| BL   | (0°-30°)    | 533.1  | 3.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 3050.5 | 18.3      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 4527.1 | 27.2      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 221.8  | 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





REPORT NUMBER: P157594

CATALOG NUMBER: VST-F07-LED-E-U-5WQ-7030

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 966.9  | 966.9  | 966.9  | 966.9  | 966.9  | 966.9  | 966.9  | 966.9  | 966.9  | 966.9  | 966.9  |
| 2.5°  | 973.3  | 974.3  | 973.3  | 973.3  | 972.2  | 972.2  | 972.2  | 973.3  | 973.3  | 975.4  | 974.3  |
| 5°    | 993.3  | 994.4  | 992.3  | 994.4  | 994.4  | 995.4  | 994.4  | 993.3  | 994.4  | 995.4  | 992.3  |
| 7.5°  | 1021.8 | 1023.9 | 1022.9 | 1023.9 | 1025.0 | 1023.9 | 1023.9 | 1022.9 | 1025.0 | 1023.9 | 1021.8 |
| 10°   | 1058.8 | 1060.9 | 1059.8 | 1061.9 | 1063.0 | 1064.0 | 1064.0 | 1061.9 | 1060.9 | 1060.9 | 1059.8 |
| 12.5° | 1103.1 | 1103.1 | 1103.1 | 1106.3 | 1108.4 | 1110.5 | 1109.4 | 1107.3 | 1104.1 | 1105.2 | 1101.0 |
| 15°   | 1151.6 | 1153.8 | 1153.8 | 1154.8 | 1160.1 | 1161.1 | 1160.1 | 1156.9 | 1155.9 | 1153.8 | 1151.6 |
| 17.5° | 1205.5 | 1206.5 | 1207.6 | 1208.7 | 1215.0 | 1218.2 | 1213.9 | 1208.7 | 1208.7 | 1207.6 | 1207.6 |
| 20°   | 1261.4 | 1260.4 | 1262.5 | 1264.6 | 1268.8 | 1272.0 | 1270.9 | 1265.7 | 1261.4 | 1264.6 | 1263.5 |
| 22.5° | 1313.2 | 1314.2 | 1315.3 | 1318.4 | 1325.8 | 1326.9 | 1323.7 | 1319.5 | 1314.2 | 1315.3 | 1315.3 |
| 25°   | 1361.7 | 1362.8 | 1364.9 | 1369.1 | 1377.5 | 1382.8 | 1378.6 | 1372.3 | 1364.9 | 1364.9 | 1365.9 |
| 27.5° | 1411.3 | 1412.4 | 1413.4 | 1420.8 | 1431.4 | 1437.7 | 1434.5 | 1424.0 | 1415.5 | 1413.4 | 1410.3 |
| 30°   | 1466.2 | 1466.2 | 1468.3 | 1477.8 | 1491.5 | 1498.9 | 1494.7 | 1482.0 | 1469.4 | 1467.3 | 1467.3 |
| 32.5° | 1535.9 | 1531.7 | 1534.8 | 1547.5 | 1562.3 | 1570.7 | 1567.6 | 1552.8 | 1536.9 | 1533.8 | 1533.8 |
| 35°   | 1619.3 | 1617.2 | 1619.3 | 1634.1 | 1652.0 | 1664.7 | 1657.3 | 1643.6 | 1626.7 | 1623.5 | 1621.4 |
| 37.5° | 1718.5 | 1719.6 | 1725.9 | 1742.8 | 1767.1 | 1782.9 | 1775.5 | 1753.3 | 1733.3 | 1733.3 | 1733.3 |
| 40°   | 1844.1 | 1846.2 | 1858.9 | 1884.2 | 1919.1 | 1932.8 | 1924.3 | 1896.9 | 1873.7 | 1865.2 | 1867.3 |
| 42.5° | 2015.1 | 2014.1 | 2034.1 | 2065.8 | 2107.0 | 2127.0 | 2113.3 | 2083.7 | 2050.0 | 2036.2 | 2037.3 |
| 45°   | 2216.7 | 2231.5 | 2252.6 | 2292.7 | 2344.5 | 2379.3 | 2355.0 | 2322.3 | 2271.6 | 2251.6 | 2250.5 |
| 47.5° | 2460.6 | 2476.4 | 2502.8 | 2569.3 | 2631.6 | 2673.8 | 2654.8 | 2601.0 | 2528.1 | 2499.6 | 2489.1 |
| 50°   | 2738.2 | 2758.3 | 2792.0 | 2877.5 | 2966.2 | 3013.7 | 2979.9 | 2909.2 | 2831.1 | 2787.8 | 2777.3 |
| 52.5° | 3050.7 | 3057.0 | 3107.7 | 3211.1 | 3320.9 | 3378.9 | 3340.9 | 3256.5 | 3156.2 | 3116.1 | 3086.5 |
| 55°   | 3396.9 | 3402.2 | 3460.2 | 3577.4 | 3702.0 | 3770.6 | 3722.0 | 3615.4 | 3522.5 | 3452.8 | 3459.2 |
| 57.5° | 3717.8 | 3733.6 | 3819.1 | 3956.4 | 4103.1 | 4186.5 | 4133.7 | 4020.7 | 3923.6 | 3844.5 | 3854.0 |
| 60°   | 4060.9 | 4077.7 | 4167.5 | 4331.1 | 4529.5 | 4640.4 | 4571.8 | 4450.4 | 4350.1 | 4275.1 | 4265.6 |
| 62.5° | 4425.0 | 4434.5 | 4532.7 | 4679.4 | 4932.8 | 5111.2 | 5045.7 | 4911.7 | 4794.5 | 4720.6 | 4713.2 |
| 65°   | 4761.8 | 4774.4 | 4857.8 | 5018.3 | 5279.0 | 5539.7 | 5502.8 | 5317.0 | 5158.7 | 5052.1 | 5037.3 |
| 67.5° | 4884.2 | 4892.7 | 5009.8 | 5234.7 | 5534.5 | 5792.0 | 5802.6 | 5510.2 | 5280.1 | 5150.2 | 5147.1 |
| 70°   | 4740.7 | 4747.0 | 4896.9 | 5164.0 | 5546.1 | 5760.4 | 5722.4 | 5428.9 | 5146.0 | 4986.6 | 4970.8 |
| 72.5° | 4418.7 | 4419.8 | 4557.0 | 4783.9 | 5167.1 | 5342.3 | 5180.8 | 5019.3 | 4726.9 | 4607.7 | 4576.0 |
| 75°   | 3832.9 | 3833.9 | 3928.9 | 4079.9 | 4353.3 | 4514.8 | 4331.1 | 4183.3 | 4011.2 | 3940.5 | 3903.6 |
| 77.5° | 2635.8 | 2651.6 | 2749.8 | 2924.0 | 3223.8 | 3402.2 | 3161.5 | 2893.4 | 2788.9 | 2728.7 | 2692.8 |
| 80°   | 1268.8 | 1293.1 | 1406.0 | 1578.1 | 1891.6 | 2176.6 | 1880.0 | 1549.6 | 1345.9 | 1180.2 | 1209.7 |
| 82.5° | 338.8  | 343.1  | 440.2  | 632.3  | 881.4  | 1034.5 | 840.3  | 588.0  | 370.5  | 249.1  | 228.0  |
| 85°   | 89.7   | 95.0   | 133.0  | 182.6  | 277.6  | 353.6  | 270.2  | 172.1  | 130.9  | 97.1   | 88.7   |
| 87.5° | 24.3   | 28.5   | 46.4   | 55.9   | 69.7   | 55.9   | 69.7   | 60.2   | 58.1   | 30.6   | 22.2   |
| 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)