

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: P286993

Luminaire Tested: **USSL-C02-D-U-T5-BZ**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P286993  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-10)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: USSL-C02-D-U-T5-BZ  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K LEDS AND TYPE V OPTICS, GRAY PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 22639.5 lumens  
Efficiency: N/A  
Efficacy: 148.0 lumens/watt  
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B5 - U0 - G5

Input Watts (W): 153  
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



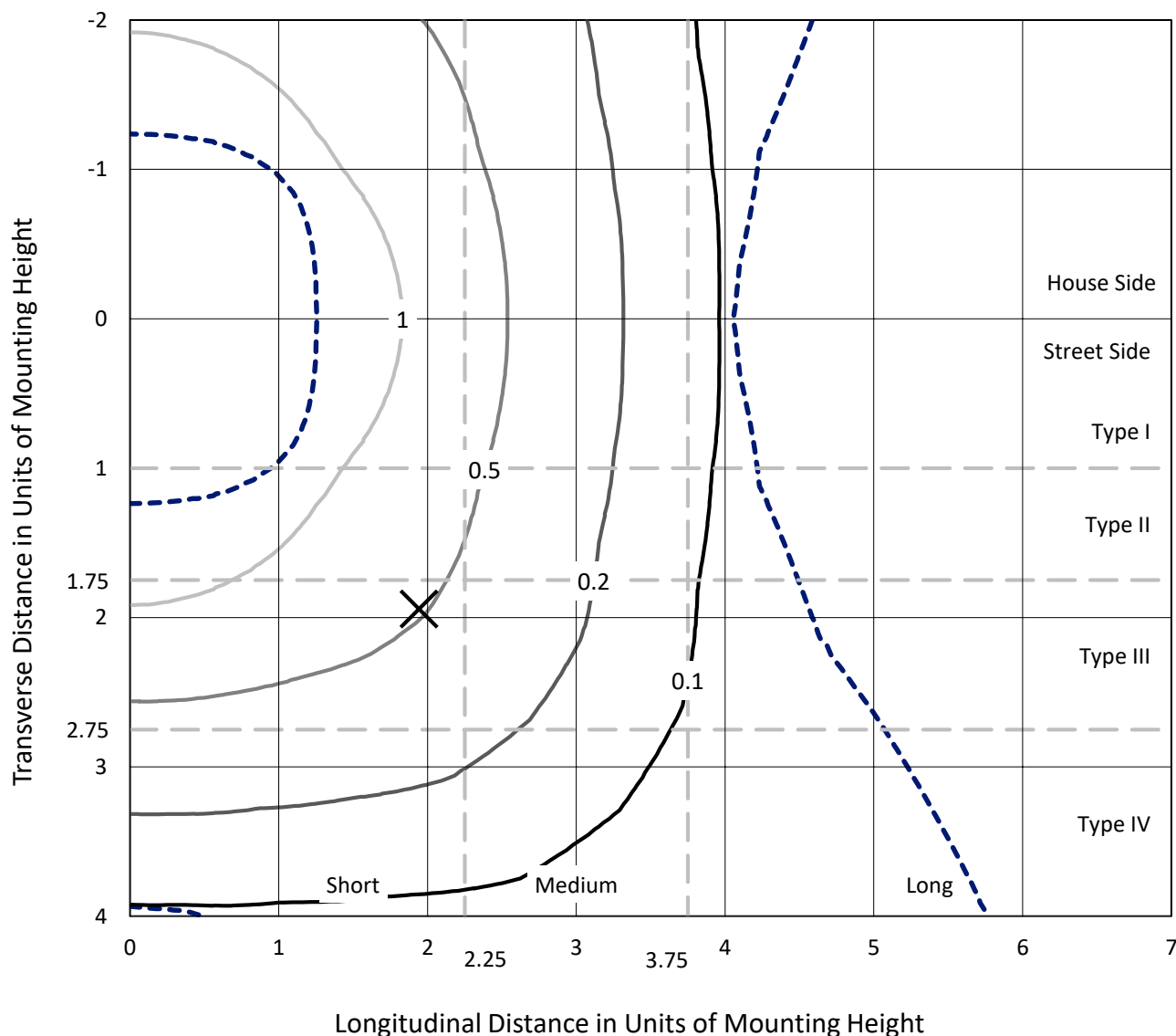
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

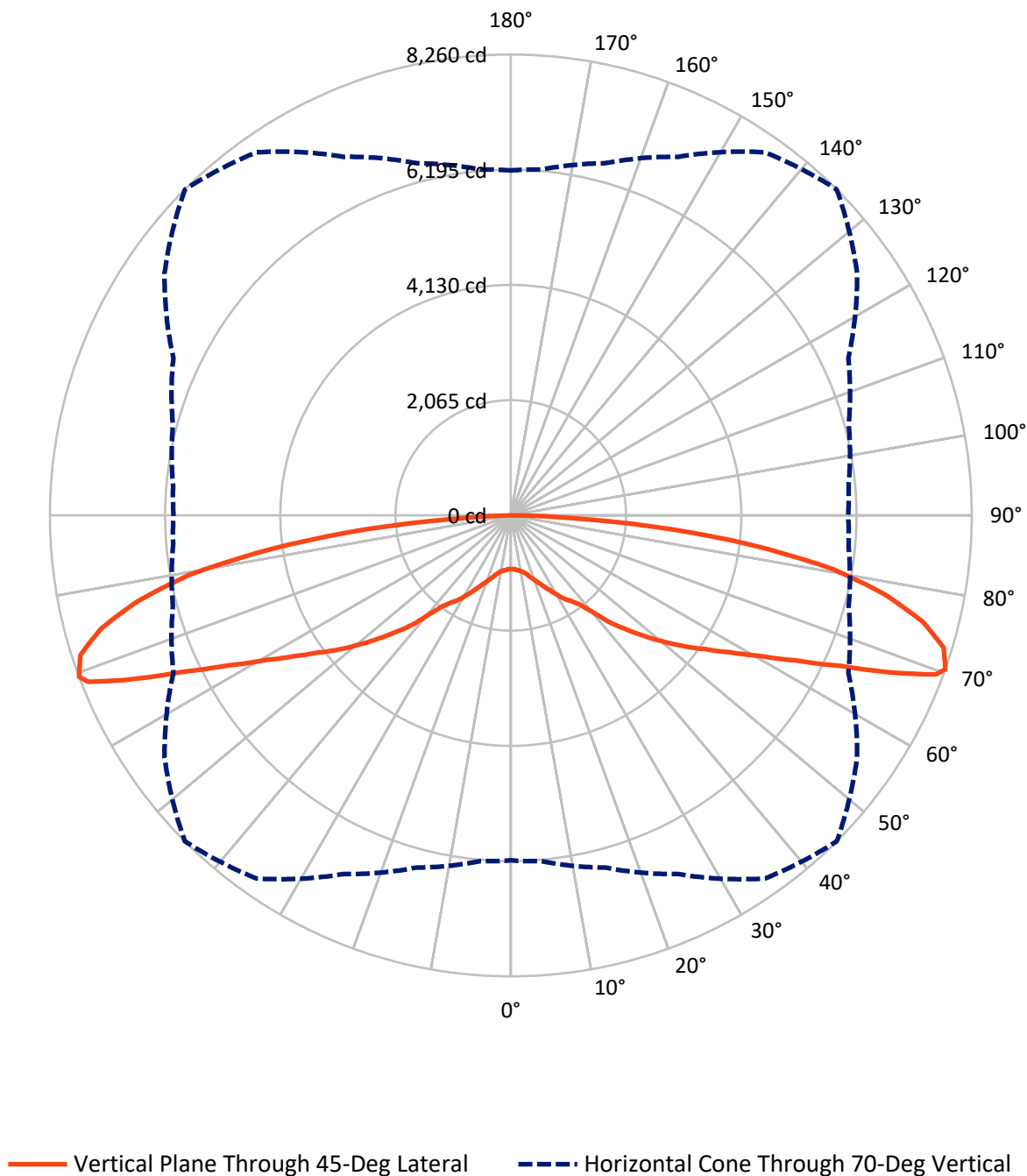


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type V - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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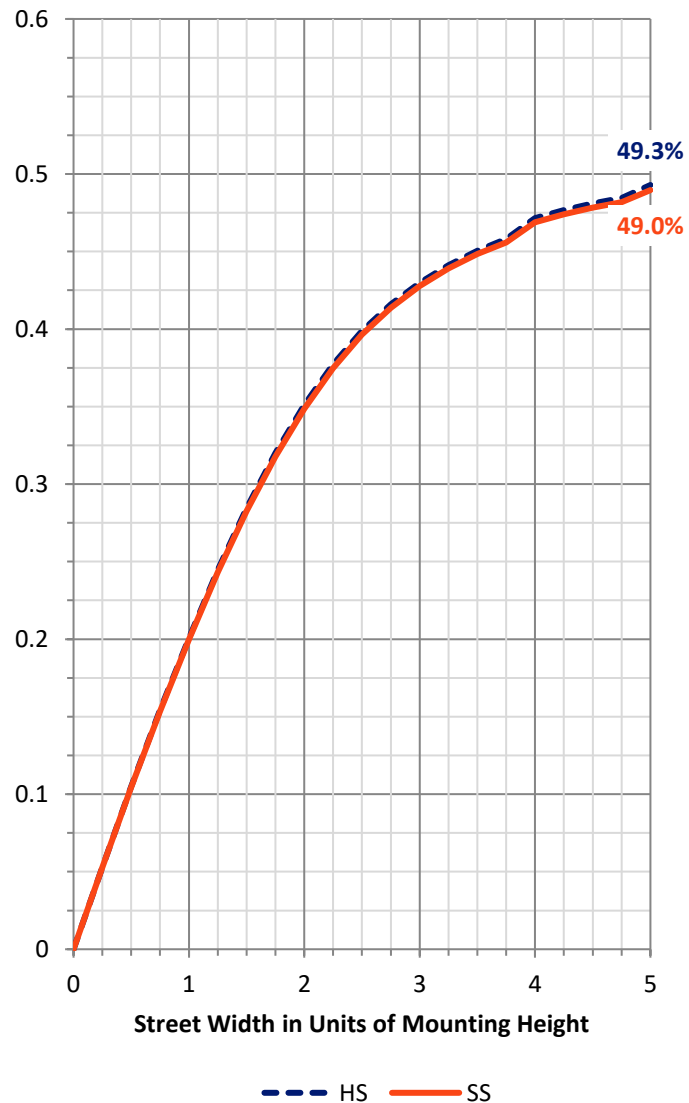
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11319.7  | 0.0    | 11319.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 11319.7  | 0.0    | 11319.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 22639.5  | 0.0    | 22639.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 94.8    | 0.4       |
| 10°-20°   | 315.8   | 1.4       |
| 20°-30°   | 653.2   | 2.9       |
| 30°-40°   | 1196.7  | 5.3       |
| 40°-50°   | 2370.0  | 10.5      |
| 50°-60°   | 4061.2  | 17.9      |
| 60°-70°   | 6394.2  | 28.2      |
| 70°-80°   | 5975.7  | 26.4      |
| 80°-90°   | 1577.9  | 7.0       |
| 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°    | 22639.5 | 100.0     |
| 0°-180°   | 22639.5 | 100.0     |

**Coefficient of Utilization**



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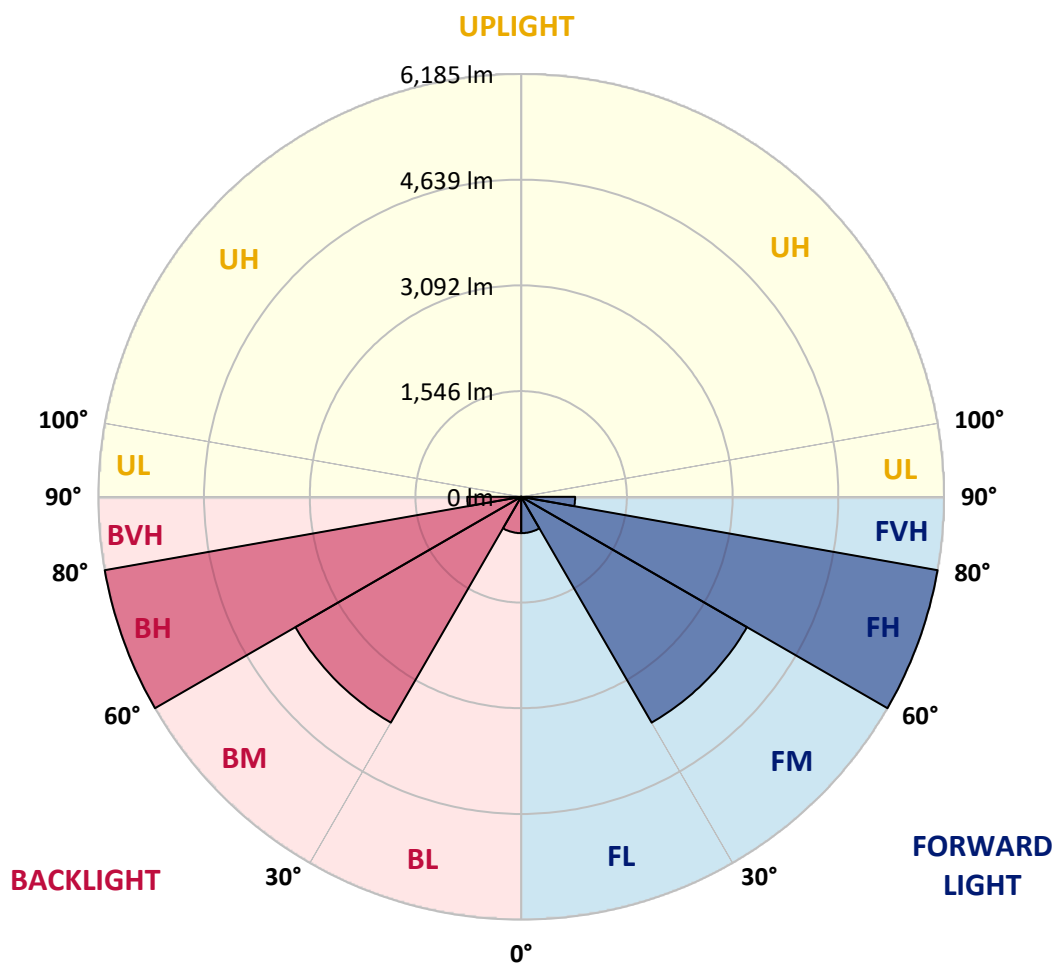
CATALOG NUMBER: USSL-C02-D-U-T5-BZ

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 531.9  | 2.3       |                         |      |         |
| FM   | (30°-60°)   | 3813.9 | 16.8      |                         |      |         |
| FH   | (60°-80°)   | 6185.0 | 27.3      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 788.9  | 3.5       |                         |      | G5      |
| BL   | (0°-30°)    | 531.9  | 2.3       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 3813.9 | 16.8      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 6185.0 | 27.3      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 788.9  | 3.5       |                         |      | G5      |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 963.0  | 963.0  | 963.0  | 963.0  | 963.0  | 963.0  | 963.0  | 963.0  | 963.0  | 963.0  | 963.0  |
| 2.5°  | 976.6  | 977.7  | 975.5  | 965.1  | 964.1  | 961.0  | 960.0  | 964.1  | 964.1  | 964.1  | 962.0  |
| 5°    | 994.2  | 991.1  | 984.9  | 980.7  | 978.6  | 976.6  | 973.4  | 979.7  | 981.8  | 984.9  | 976.6  |
| 7.5°  | 1005.6 | 1005.6 | 1004.6 | 997.4  | 1000.4 | 994.2  | 989.0  | 994.2  | 998.4  | 996.3  | 995.2  |
| 10°   | 1028.5 | 1030.5 | 1026.4 | 1019.2 | 1025.3 | 1014.0 | 1006.7 | 1010.8 | 1009.8 | 1008.8 | 1010.8 |
| 12.5° | 1059.7 | 1061.7 | 1056.5 | 1050.4 | 1058.6 | 1048.2 | 1040.9 | 1040.0 | 1037.9 | 1036.8 | 1033.7 |
| 15°   | 1102.3 | 1103.4 | 1099.1 | 1093.9 | 1106.4 | 1100.2 | 1096.0 | 1082.6 | 1082.6 | 1079.4 | 1080.5 |
| 17.5° | 1153.2 | 1158.4 | 1155.3 | 1155.3 | 1175.0 | 1170.9 | 1153.2 | 1137.6 | 1142.8 | 1135.5 | 1135.5 |
| 20°   | 1219.6 | 1217.6 | 1220.7 | 1225.9 | 1248.8 | 1242.5 | 1223.9 | 1202.0 | 1208.3 | 1201.0 | 1199.9 |
| 22.5° | 1296.6 | 1297.5 | 1299.6 | 1303.8 | 1337.1 | 1325.6 | 1305.9 | 1288.2 | 1287.1 | 1283.0 | 1284.1 |
| 25°   | 1386.9 | 1385.9 | 1379.7 | 1395.3 | 1432.7 | 1421.2 | 1397.3 | 1384.9 | 1386.9 | 1386.9 | 1387.9 |
| 27.5° | 1478.3 | 1471.0 | 1469.0 | 1470.1 | 1542.8 | 1536.5 | 1499.1 | 1476.2 | 1480.5 | 1488.7 | 1491.8 |
| 30°   | 1569.8 | 1567.7 | 1562.5 | 1556.3 | 1639.3 | 1661.2 | 1594.7 | 1581.2 | 1586.4 | 1599.9 | 1603.0 |
| 32.5° | 1693.4 | 1688.2 | 1683.0 | 1667.4 | 1720.4 | 1789.0 | 1703.8 | 1706.9 | 1721.5 | 1742.3 | 1745.3 |
| 35°   | 1830.6 | 1831.6 | 1817.0 | 1803.5 | 1833.6 | 1892.9 | 1851.3 | 1855.5 | 1887.7 | 1915.8 | 1923.0 |
| 37.5° | 1997.8 | 2000.9 | 1977.0 | 1948.9 | 1976.0 | 2038.3 | 2010.3 | 2053.9 | 2135.0 | 2180.6 | 2199.3 |
| 40°   | 2279.3 | 2272.1 | 2236.7 | 2183.7 | 2208.7 | 2292.9 | 2323.0 | 2379.1 | 2491.3 | 2554.7 | 2578.5 |
| 42.5° | 2672.0 | 2658.5 | 2611.8 | 2555.7 | 2562.9 | 2635.7 | 2679.3 | 2788.4 | 2908.9 | 2974.4 | 2986.8 |
| 45°   | 3047.1 | 3040.9 | 2988.9 | 2888.1 | 2858.0 | 2922.5 | 2977.5 | 3113.6 | 3244.5 | 3313.0 | 3341.1 |
| 47.5° | 3468.8 | 3463.6 | 3390.9 | 3261.1 | 3207.0 | 3236.2 | 3273.6 | 3430.5 | 3544.7 | 3619.6 | 3636.1 |
| 50°   | 3920.8 | 3908.3 | 3830.4 | 3671.5 | 3570.7 | 3560.3 | 3602.9 | 3736.9 | 3868.8 | 3934.3 | 3929.2 |
| 52.5° | 4380.0 | 4374.8 | 4293.8 | 4098.4 | 3966.5 | 3898.9 | 3916.6 | 4030.9 | 4158.7 | 4241.8 | 4247.0 |
| 55°   | 4854.8 | 4858.9 | 4767.5 | 4532.7 | 4353.0 | 4233.5 | 4223.1 | 4355.0 | 4482.8 | 4553.4 | 4573.3 |
| 57.5° | 5346.1 | 5347.2 | 5231.9 | 5015.8 | 4786.2 | 4629.3 | 4574.2 | 4720.8 | 4841.3 | 4904.6 | 4941.0 |
| 60°   | 5804.3 | 5814.7 | 5719.1 | 5541.5 | 5322.3 | 5111.4 | 5022.0 | 5150.8 | 5275.5 | 5365.8 | 5366.9 |
| 62.5° | 6326.9 | 6319.7 | 6231.3 | 6086.9 | 5948.7 | 5720.2 | 5554.0 | 5690.1 | 5817.8 | 5898.9 | 5937.2 |
| 65°   | 6827.7 | 6840.1 | 6819.3 | 6761.1 | 6681.2 | 6506.6 | 6291.6 | 6477.5 | 6562.7 | 6558.6 | 6596.0 |
| 67.5° | 6689.5 | 6746.6 | 6883.7 | 7177.7 | 7481.1 | 7553.8 | 7213.0 | 6807.8 | 6626.1 | 6511.8 | 6474.4 |
| 69°   | 6420.3 | 6483.7 | 6726.9 | 7164.2 | 7812.5 | 8136.6 | 7490.4 | 6727.9 | 6447.4 | 6288.4 | 6255.2 |
| 70°   | 6181.4 | 6219.9 | 6533.6 | 7090.4 | 7943.4 | 8260.2 | 7574.6 | 6672.8 | 6268.7 | 6075.5 | 6045.4 |
| 72.5° | 5448.0 | 5524.8 | 5872.9 | 6698.8 | 7854.1 | 8110.7 | 7543.4 | 6309.3 | 5760.7 | 5449.1 | 5415.8 |
| 75°   | 4492.2 | 4570.1 | 5048.0 | 5980.9 | 7353.3 | 7628.6 | 7067.6 | 5656.8 | 4949.3 | 4648.0 | 4585.7 |
| 77.5° | 3200.8 | 3258.0 | 3813.8 | 4932.7 | 6503.4 | 6877.5 | 6271.9 | 4737.3 | 3975.9 | 3641.3 | 3561.4 |
| 80°   | 1874.2 | 1897.0 | 2446.6 | 3513.6 | 5186.2 | 5866.7 | 5176.9 | 3675.6 | 2841.4 | 2473.6 | 2421.7 |
| 82.5° | 705.4  | 882.0  | 1300.7 | 2172.4 | 3539.5 | 4351.9 | 3816.9 | 2508.9 | 1696.5 | 1316.3 | 1268.5 |
| 85°   | 215.1  | 294.0  | 555.8  | 1076.3 | 1946.9 | 2581.7 | 2401.9 | 1392.1 | 704.4  | 402.0  | 351.1  |
| 87.5° | 37.4   | 47.8   | 127.8  | 346.0  | 718.9  | 726.1  | 563.1  | 255.5  | 50.9   | 18.7   | 17.7   |
| 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)