

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386770

Luminaire Tested: GAW-SA2C-727-U-5MQ

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386770
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2C-727-U-5MQ
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12968 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

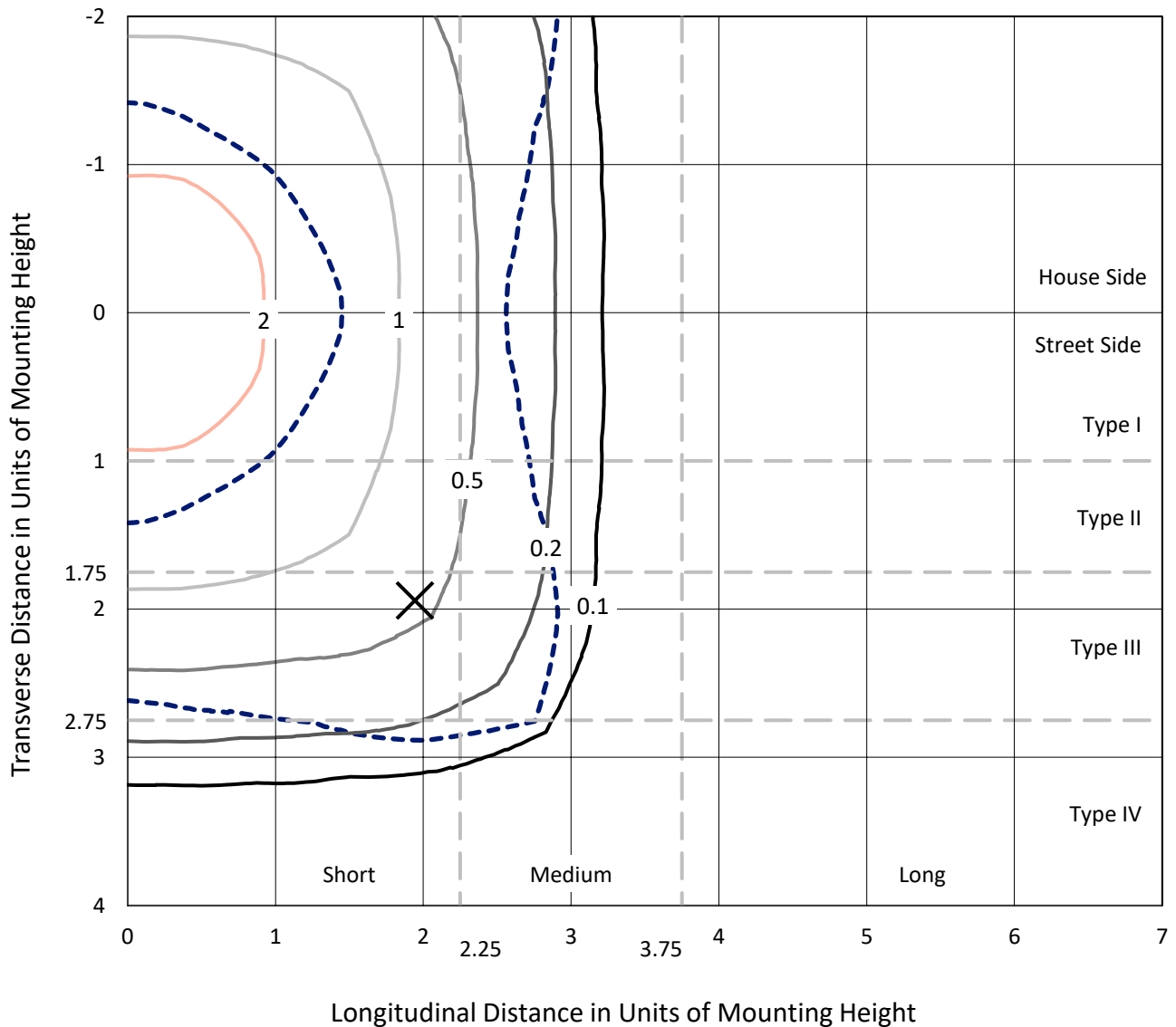
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

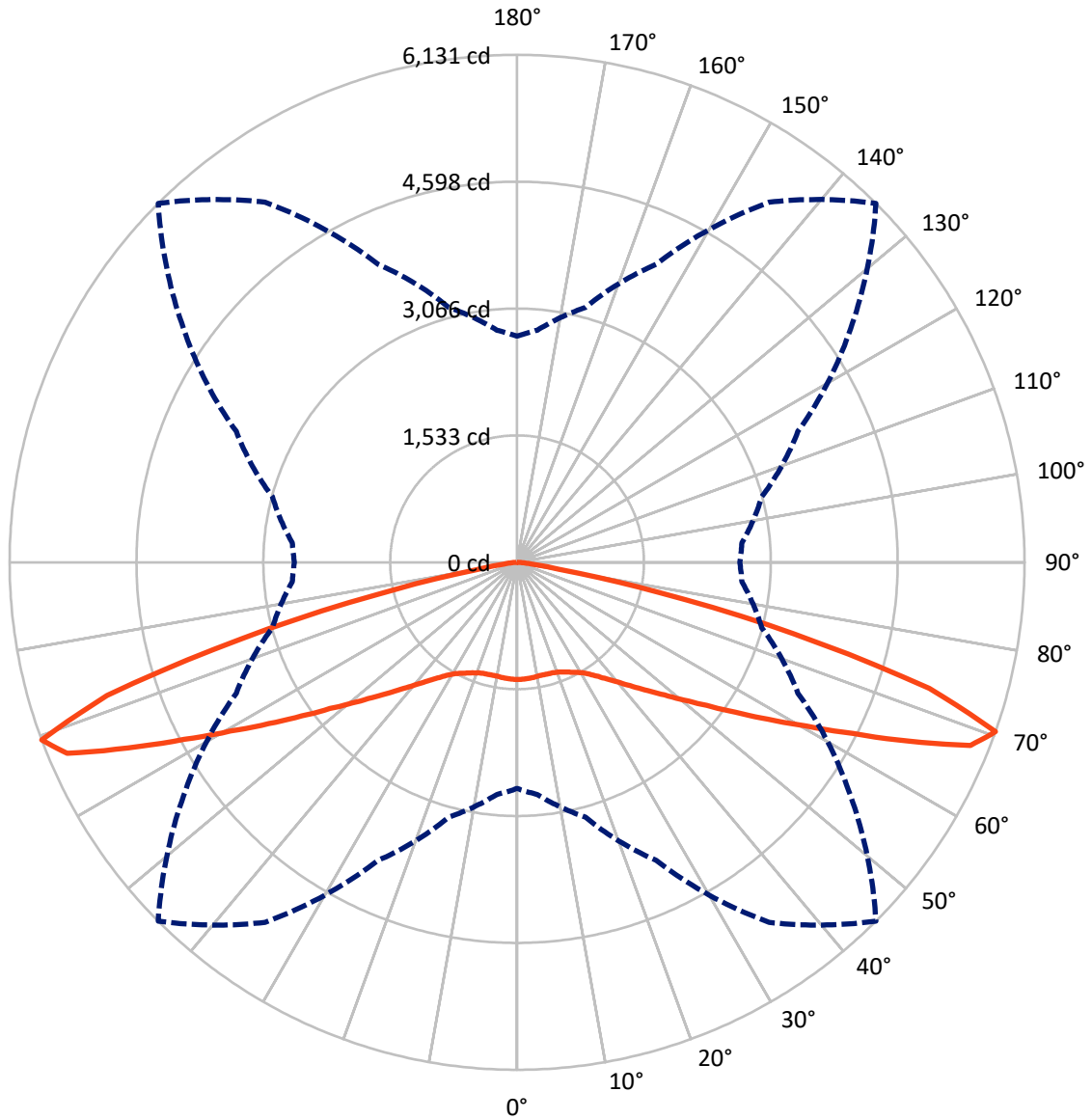
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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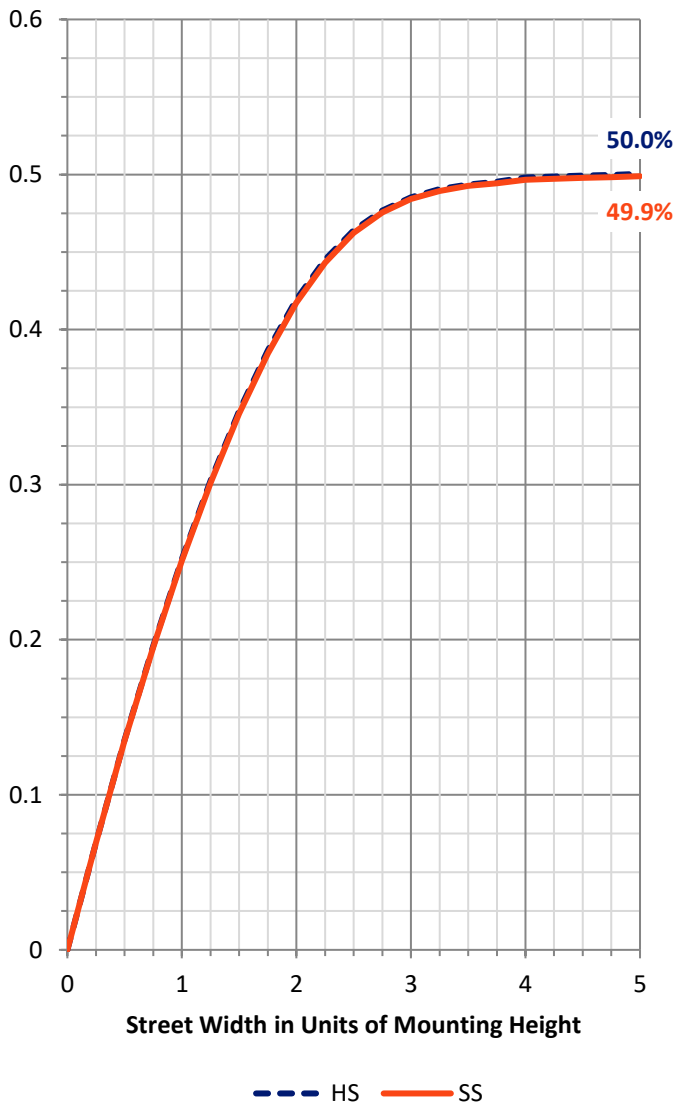
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6484.0 | 0.0 | 6484.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6484.0 | 0.0 | 6484.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 12968.0 | 0.0 | 12968.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 134.1 | 1.0 |
| 10°-20° | 393.8 | 3.0 |
| 20°-30° | 670.4 | 5.2 |
| 30°-40° | 1063.2 | 8.2 |
| 40°-50° | 1730.2 | 13.3 |
| 50°-60° | 2852.7 | 22.0 |
| 60°-70° | 4187.9 | 32.3 |
| 70°-80° | 1851.9 | 14.3 |
| 80°-90° | 83.9 | 0.6 |
| 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° | 12968.0 | 100.0 |
| 0°-180° | 12968.0 | 100.0 |

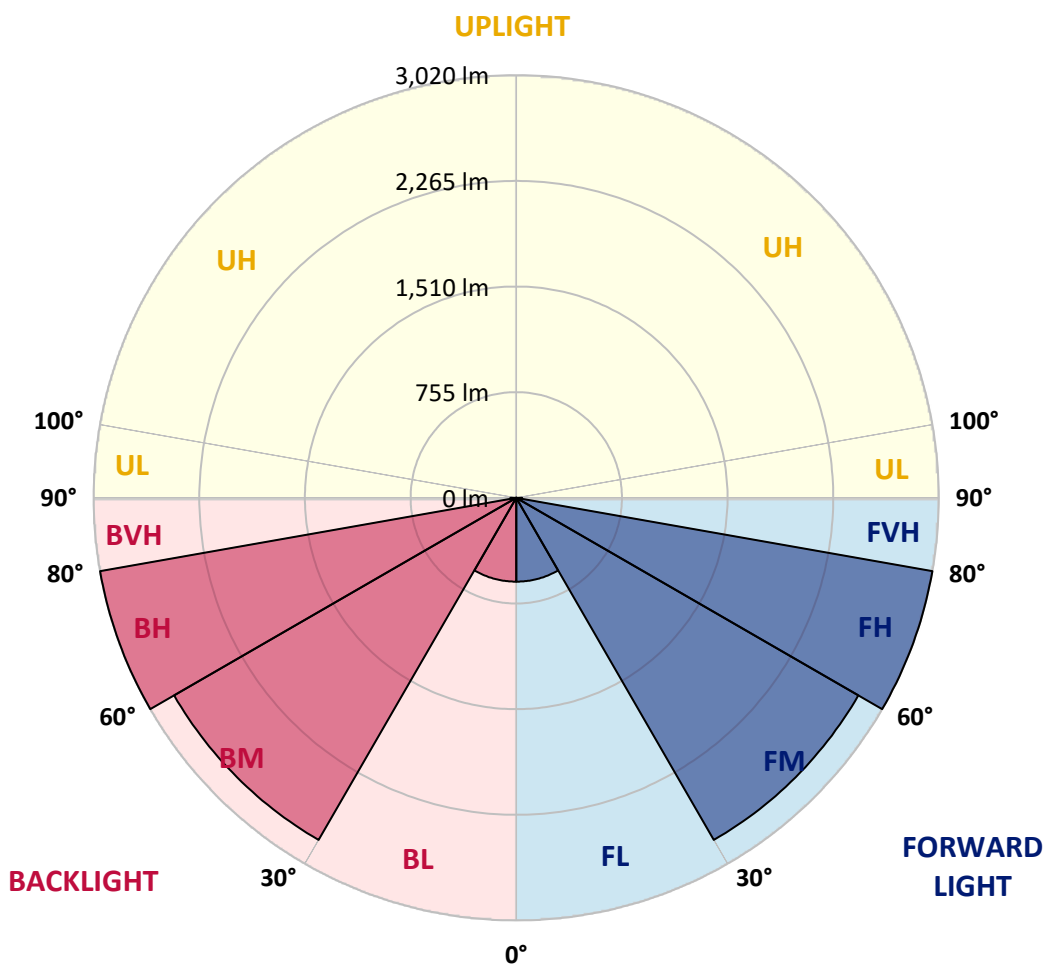


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 599.2 | 4.6 | | | |
| FM (30°-60°) | 2823.0 | 21.8 | | | |
| FH (60°-80°) | 3019.9 | 23.3 | | | G2/5000 |
| FVH (80°-90°) | 41.9 | 0.3 | | | G1/100 |
| BL (0°-30°) | 599.2 | 4.6 | B2/1000 | | |
| BM (30°-60°) | 2823.0 | 21.8 | B3/5000 | | |
| BH (60°-80°) | 3019.9 | 23.3 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 41.9 | 0.3 | | | G1/100 |
| 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° | 1416.3 | 1416.3 | 1416.3 | 1416.3 | 1416.3 | 1416.3 | 1416.3 | 1416.3 | 1416.3 | 1416.3 | 1416.3 |
| 2.5° | 1414.2 | 1412.9 | 1415.9 | 1415.4 | 1412.9 | 1413.3 | 1413.3 | 1414.6 | 1414.6 | 1413.7 | 1413.7 |
| 5° | 1409.0 | 1408.2 | 1411.6 | 1411.6 | 1409.0 | 1409.9 | 1410.7 | 1412.0 | 1411.6 | 1410.7 | 1410.3 |
| 7.5° | 1402.6 | 1402.1 | 1405.6 | 1405.6 | 1403.9 | 1404.7 | 1403.9 | 1404.3 | 1403.4 | 1402.6 | 1401.3 |
| 10° | 1391.8 | 1392.7 | 1395.7 | 1396.6 | 1396.6 | 1397.0 | 1396.1 | 1394.0 | 1392.7 | 1391.4 | 1390.1 |
| 12.5° | 1382.0 | 1381.5 | 1385.8 | 1388.0 | 1391.4 | 1395.3 | 1392.7 | 1386.7 | 1384.1 | 1381.5 | 1380.7 |
| 15° | 1375.5 | 1376.0 | 1380.3 | 1384.1 | 1390.1 | 1398.3 | 1395.3 | 1385.8 | 1380.7 | 1377.7 | 1376.8 |
| 17.5° | 1374.2 | 1375.1 | 1380.7 | 1387.6 | 1394.0 | 1403.0 | 1401.3 | 1391.8 | 1383.3 | 1377.7 | 1376.4 |
| 20° | 1377.3 | 1377.7 | 1386.3 | 1396.1 | 1407.3 | 1415.9 | 1412.0 | 1401.7 | 1390.1 | 1381.5 | 1379.4 |
| 22.5° | 1382.8 | 1384.5 | 1395.3 | 1410.7 | 1427.9 | 1439.5 | 1434.8 | 1417.2 | 1399.1 | 1388.4 | 1385.4 |
| 25° | 1400.4 | 1400.9 | 1415.4 | 1436.5 | 1457.1 | 1470.4 | 1464.8 | 1439.9 | 1416.7 | 1404.7 | 1400.9 |
| 27.5° | 1436.9 | 1438.2 | 1452.8 | 1477.3 | 1494.8 | 1503.4 | 1500.0 | 1479.8 | 1460.1 | 1447.2 | 1448.5 |
| 30° | 1489.7 | 1491.4 | 1507.7 | 1534.8 | 1545.5 | 1547.6 | 1546.8 | 1537.3 | 1519.3 | 1502.1 | 1503.4 |
| 32.5° | 1554.1 | 1554.9 | 1576.8 | 1601.3 | 1609.9 | 1611.6 | 1609.9 | 1601.3 | 1579.8 | 1556.7 | 1557.9 |
| 35° | 1636.9 | 1639.5 | 1660.5 | 1684.1 | 1691.0 | 1694.4 | 1691.4 | 1680.3 | 1657.9 | 1635.2 | 1634.3 |
| 37.5° | 1739.1 | 1739.5 | 1761.4 | 1785.8 | 1794.4 | 1795.3 | 1791.8 | 1784.5 | 1756.7 | 1736.0 | 1734.8 |
| 40° | 1857.5 | 1859.2 | 1885.0 | 1911.2 | 1914.6 | 1910.7 | 1915.4 | 1911.2 | 1882.4 | 1858.8 | 1862.7 |
| 42.5° | 2001.7 | 2005.6 | 2036.5 | 2062.2 | 2052.4 | 2050.2 | 2053.2 | 2054.5 | 2031.3 | 2002.6 | 2000.0 |
| 45° | 2169.5 | 2173.0 | 2211.6 | 2232.2 | 2225.7 | 2211.6 | 2217.6 | 2227.9 | 2195.7 | 2160.1 | 2163.5 |
| 47.5° | 2360.9 | 2369.5 | 2410.7 | 2430.0 | 2414.2 | 2394.8 | 2406.4 | 2421.9 | 2384.1 | 2339.9 | 2337.8 |
| 50° | 2573.8 | 2584.5 | 2639.5 | 2666.5 | 2650.6 | 2615.0 | 2634.3 | 2644.6 | 2590.1 | 2533.0 | 2528.3 |
| 52.5° | 2800.9 | 2811.6 | 2880.7 | 2936.5 | 2926.2 | 2870.8 | 2897.9 | 2887.1 | 2824.5 | 2747.6 | 2741.6 |
| 55° | 3057.9 | 3062.2 | 3136.9 | 3227.0 | 3237.3 | 3196.6 | 3194.8 | 3177.2 | 3084.5 | 2995.7 | 2991.4 |
| 57.5° | 3322.3 | 3325.3 | 3421.9 | 3528.3 | 3576.8 | 3576.8 | 3528.8 | 3491.4 | 3368.2 | 3265.2 | 3254.5 |
| 60° | 3607.7 | 3618.5 | 3725.3 | 3870.0 | 3983.3 | 4016.7 | 3931.8 | 3830.0 | 3696.1 | 3570.4 | 3557.9 |
| 62.5° | 3861.8 | 3874.2 | 4037.8 | 4253.2 | 4435.2 | 4557.1 | 4349.4 | 4183.7 | 3939.9 | 3738.2 | 3714.6 |
| 65° | 3894.0 | 3927.5 | 4165.7 | 4555.8 | 4963.1 | 5206.4 | 4808.1 | 4400.0 | 3955.8 | 3675.5 | 3651.5 |
| 67.5° | 3556.2 | 3612.9 | 3934.8 | 4542.1 | 5383.7 | 5906.0 | 5101.3 | 4276.4 | 3670.8 | 3360.9 | 3334.3 |
| 70° | 2732.6 | 2815.0 | 3186.3 | 3973.0 | 5311.2 | 6131.3 | 4917.6 | 3743.8 | 3060.5 | 2727.0 | 2689.7 |
| 72.5° | 1499.1 | 1533.0 | 1867.0 | 2720.6 | 4257.9 | 5210.3 | 4101.7 | 2768.2 | 2029.6 | 1651.5 | 1588.8 |
| 75° | 475.5 | 487.6 | 657.5 | 1113.3 | 2408.6 | 3451.1 | 2605.6 | 1358.8 | 748.1 | 551.5 | 545.1 |
| 77.5° | 211.2 | 212.4 | 237.8 | 324.9 | 829.6 | 1748.5 | 996.6 | 370.0 | 254.9 | 222.7 | 230.0 |
| 80° | 133.5 | 133.5 | 147.2 | 160.9 | 225.8 | 507.7 | 269.5 | 176.0 | 150.2 | 139.5 | 142.5 |
| 82.5° | 63.9 | 70.8 | 95.7 | 103.0 | 124.0 | 170.8 | 138.2 | 115.0 | 100.4 | 74.7 | 69.5 |
| 85° | 42.1 | 35.2 | 60.5 | 68.2 | 72.1 | 82.0 | 80.3 | 76.0 | 65.7 | 37.3 | 41.6 |
| 87.5° | 18.9 | 18.0 | 31.3 | 28.8 | 27.0 | 20.6 | 30.9 | 38.2 | 36.9 | 18.5 | 18.5 |
| 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)