

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: P386999

Luminaire Tested: GAW-SA2D-727-U-RW

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2D-727-U-RW
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13843 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

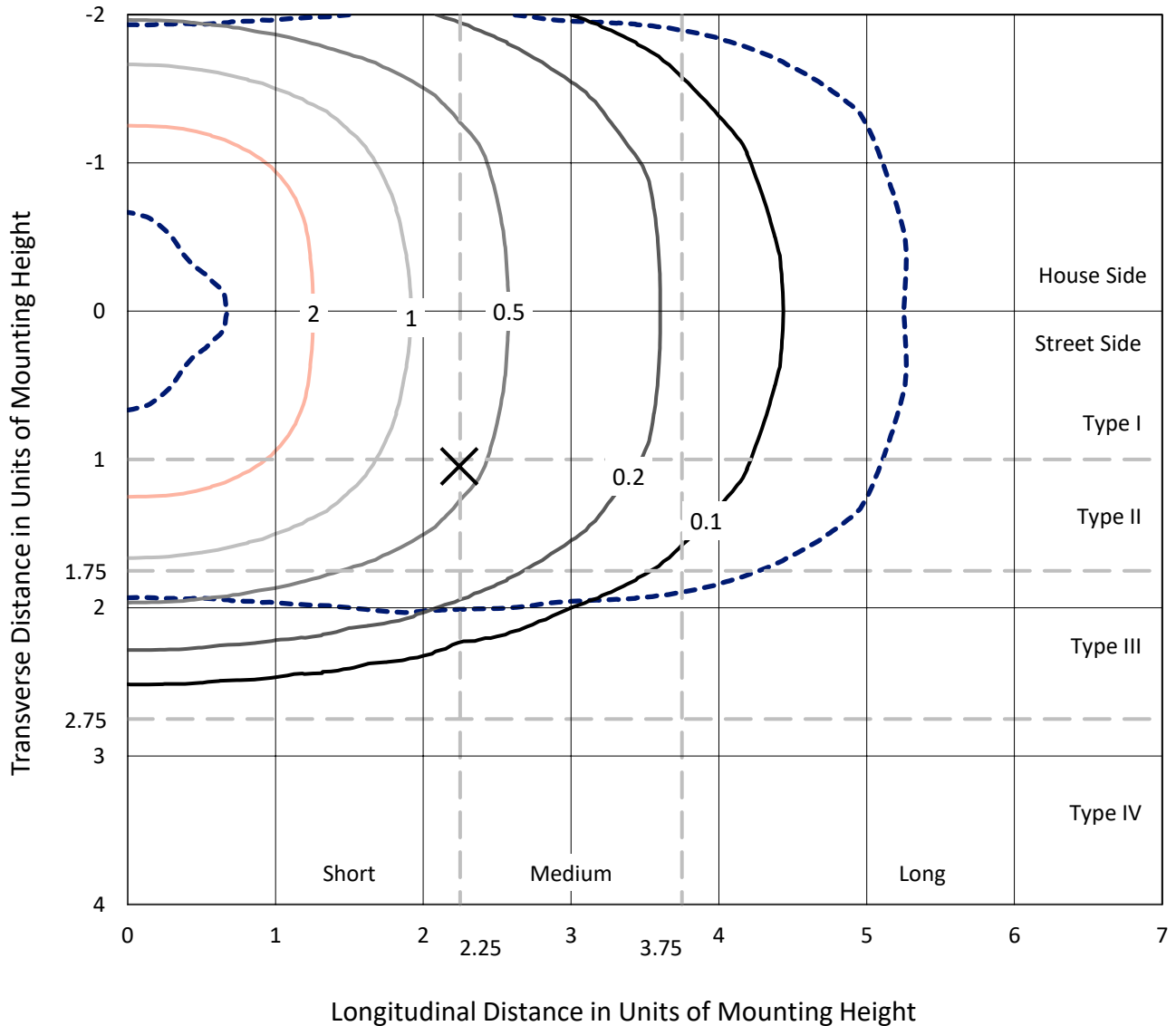
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

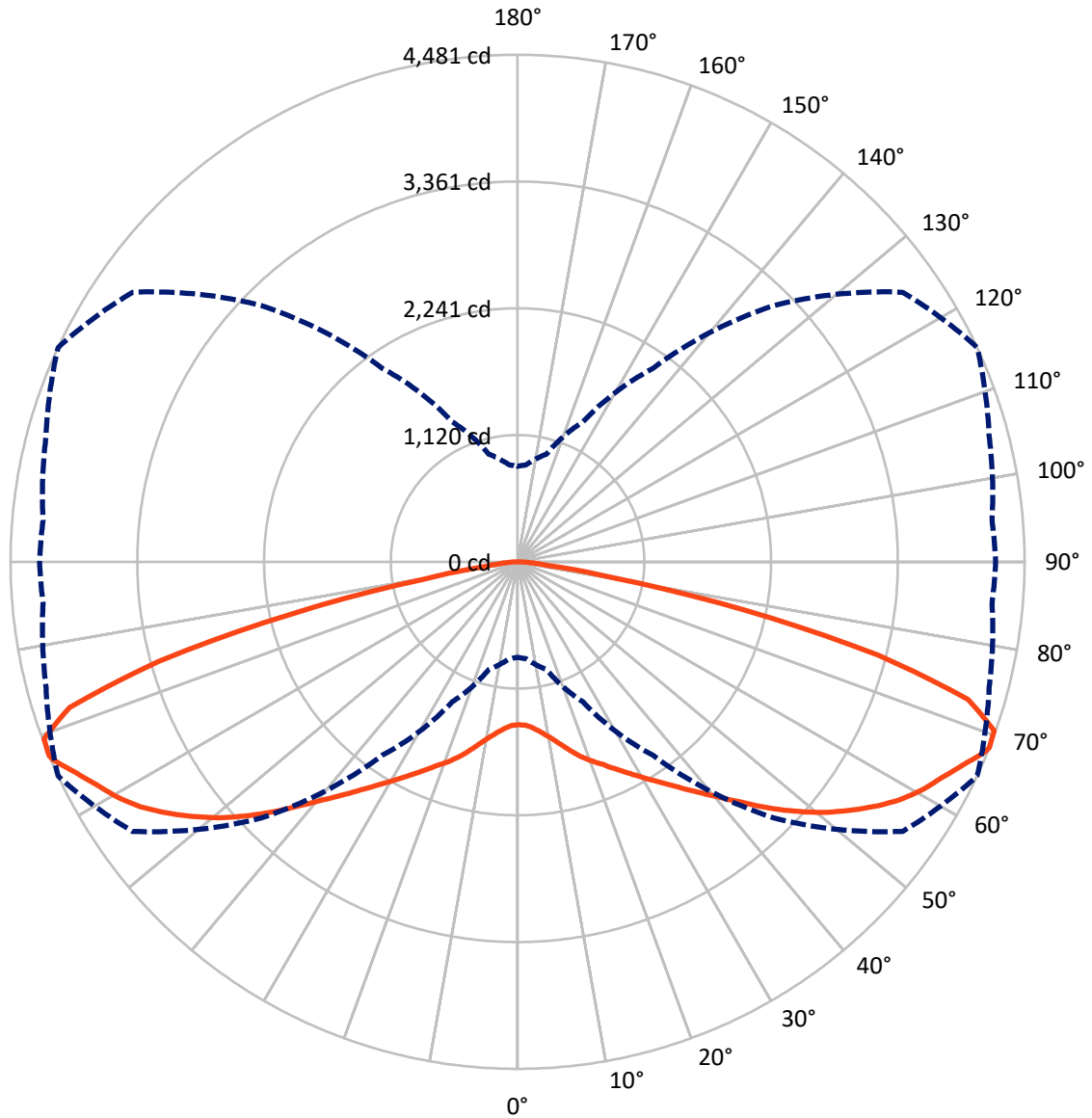
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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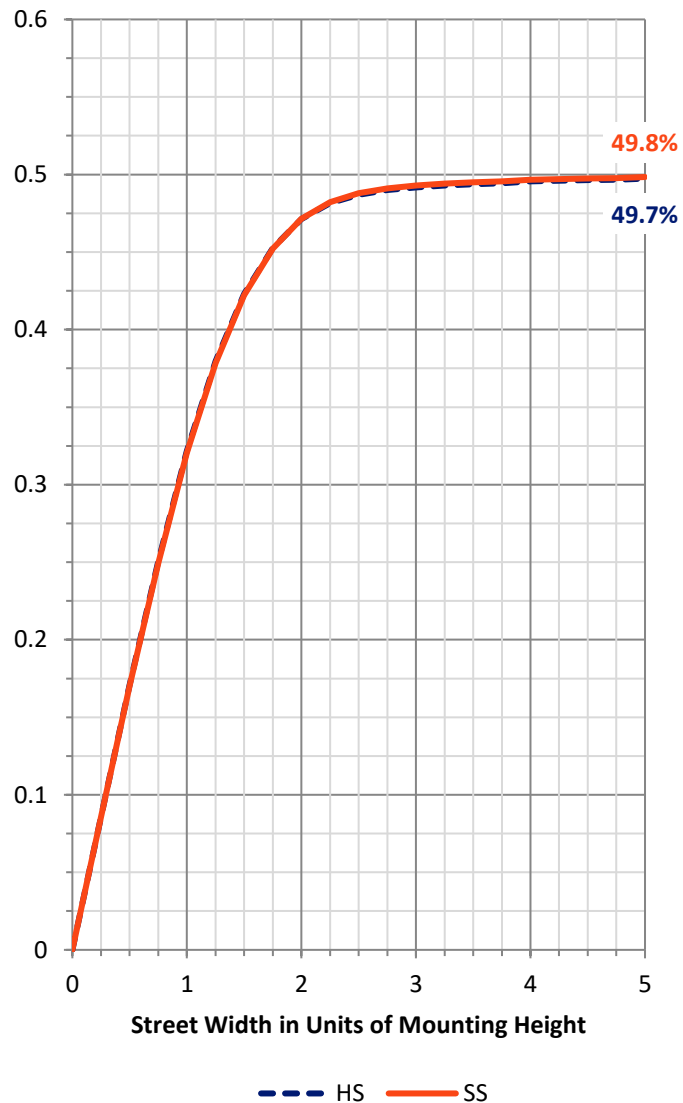
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6921.5 | 0.0 | 6921.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6921.5 | 0.0 | 6921.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 13843.0 | 0.0 | 13843.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 140.9 | 1.0 |
| 10°-20° | 471.9 | 3.4 |
| 20°-30° | 920.0 | 6.6 |
| 30°-40° | 1545.6 | 11.2 |
| 40°-50° | 2435.3 | 17.6 |
| 50°-60° | 3256.7 | 23.5 |
| 60°-70° | 3166.0 | 22.9 |
| 70°-80° | 1730.7 | 12.5 |
| 80°-90° | 176.0 | 1.3 |
| 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° | 13843.0 | 100.0 |
| 0°-180° | 13843.0 | 100.0 |

Coefficient of Utilization



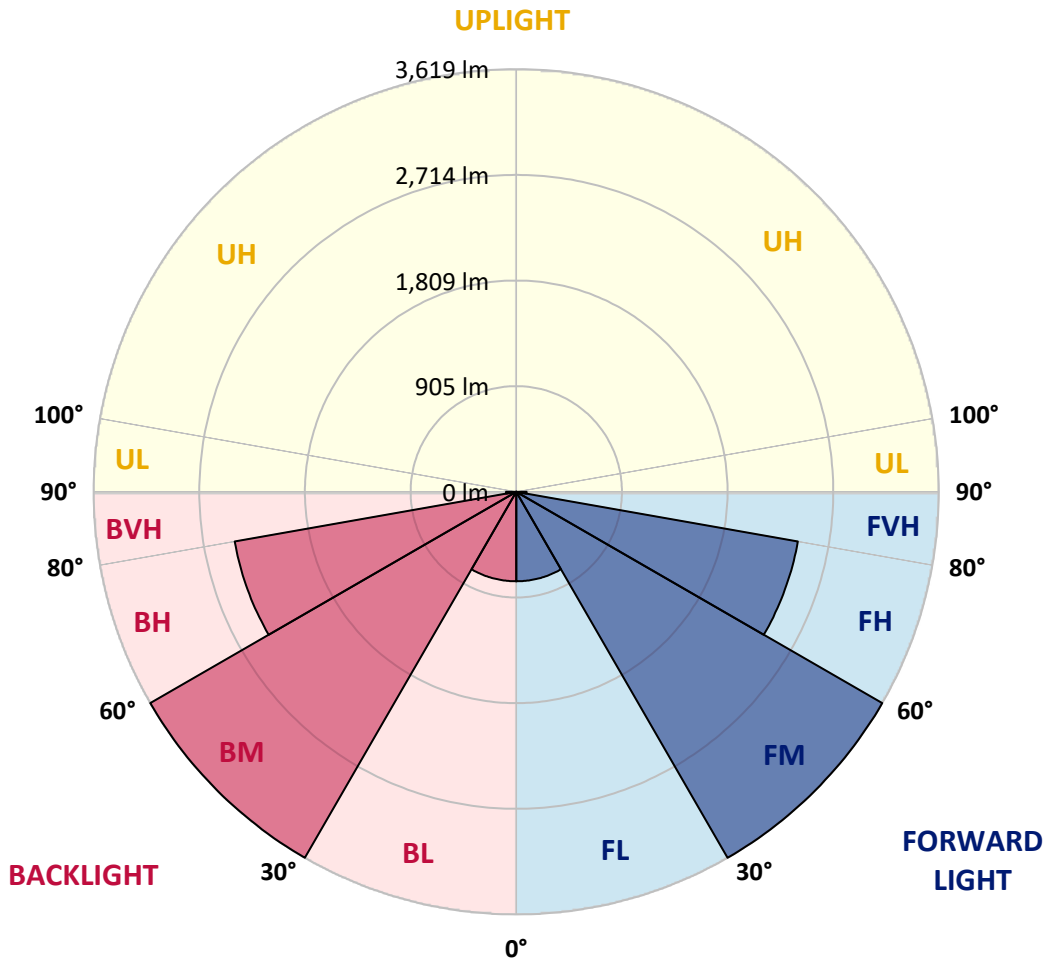
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 766.4 | 5.5 | | | |
| FM (30°-60°) | 3618.8 | 26.1 | | | |
| FH (60°-80°) | 2448.3 | 17.7 | | | G2/5000 |
| FVH (80°-90°) | 88.0 | 0.6 | | | G1/100 |
| BL (0°-30°) | 766.4 | 5.5 | B2/1000 | | |
| BM (30°-60°) | 3618.8 | 26.1 | B3/5000 | | |
| BH (60°-80°) | 2448.3 | 17.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 88.0 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1439.3 | 1439.3 | 1439.3 | 1439.3 | 1439.3 | 1439.3 | 1439.3 | 1439.3 | 1439.3 | 1439.3 | 1439.3 |
| 2.5° | 1429.1 | 1429.6 | 1431.9 | 1434.7 | 1437.0 | 1443.1 | 1444.5 | 1446.8 | 1447.7 | 1450.0 | 1450.0 |
| 5° | 1416.6 | 1417.5 | 1423.1 | 1430.5 | 1438.9 | 1453.7 | 1464.4 | 1476.5 | 1482.5 | 1489.0 | 1488.5 |
| 7.5° | 1415.2 | 1417.5 | 1425.4 | 1437.5 | 1451.4 | 1476.0 | 1498.3 | 1522.4 | 1538.7 | 1553.5 | 1552.6 |
| 10° | 1429.6 | 1433.3 | 1444.5 | 1462.6 | 1483.4 | 1514.1 | 1547.0 | 1579.5 | 1607.8 | 1630.6 | 1631.5 |
| 12.5° | 1451.4 | 1456.1 | 1473.7 | 1501.1 | 1532.6 | 1572.1 | 1611.1 | 1647.8 | 1686.7 | 1720.6 | 1723.4 |
| 15° | 1480.2 | 1486.2 | 1512.7 | 1553.5 | 1601.8 | 1648.7 | 1690.5 | 1728.1 | 1773.1 | 1820.0 | 1824.6 |
| 17.5° | 1522.9 | 1531.2 | 1566.1 | 1621.3 | 1684.9 | 1736.4 | 1780.0 | 1808.3 | 1845.9 | 1894.2 | 1903.0 |
| 20° | 1587.9 | 1598.6 | 1642.6 | 1708.6 | 1786.1 | 1839.9 | 1873.3 | 1879.4 | 1897.9 | 1941.1 | 1951.3 |
| 22.5° | 1672.4 | 1681.6 | 1730.8 | 1809.3 | 1896.1 | 1954.6 | 1972.2 | 1948.1 | 1946.2 | 1981.0 | 1990.8 |
| 25° | 1766.6 | 1774.9 | 1832.0 | 1920.2 | 2013.5 | 2078.0 | 2077.6 | 2030.7 | 1998.2 | 2025.1 | 2035.3 |
| 27.5° | 1872.4 | 1885.4 | 1940.2 | 2033.0 | 2132.8 | 2196.4 | 2192.7 | 2120.3 | 2058.5 | 2065.5 | 2074.3 |
| 30° | 1994.0 | 2008.4 | 2061.8 | 2156.0 | 2255.8 | 2318.0 | 2313.4 | 2217.7 | 2124.9 | 2106.3 | 2112.8 |
| 32.5° | 2144.9 | 2162.0 | 2212.6 | 2305.5 | 2393.7 | 2449.8 | 2436.4 | 2323.6 | 2204.7 | 2164.4 | 2170.4 |
| 35° | 2326.3 | 2336.6 | 2389.9 | 2481.4 | 2552.9 | 2591.4 | 2563.1 | 2446.1 | 2305.9 | 2257.2 | 2257.2 |
| 37.5° | 2510.2 | 2518.0 | 2577.9 | 2666.6 | 2735.7 | 2756.2 | 2700.9 | 2580.2 | 2438.2 | 2369.0 | 2370.4 |
| 40° | 2686.5 | 2707.9 | 2775.2 | 2866.2 | 2934.4 | 2940.0 | 2866.6 | 2733.4 | 2585.3 | 2513.9 | 2522.2 |
| 42.5° | 2870.8 | 2891.7 | 2972.0 | 3075.0 | 3135.4 | 3144.7 | 3058.8 | 2905.1 | 2751.5 | 2693.5 | 2702.8 |
| 45° | 3035.1 | 3051.8 | 3144.7 | 3264.4 | 3339.6 | 3363.7 | 3262.1 | 3102.0 | 2931.1 | 2874.5 | 2876.8 |
| 47.5° | 3149.8 | 3171.6 | 3273.7 | 3414.8 | 3524.3 | 3561.5 | 3461.7 | 3293.6 | 3108.0 | 3039.3 | 3045.3 |
| 50° | 3253.7 | 3265.3 | 3368.8 | 3522.9 | 3662.2 | 3738.8 | 3653.4 | 3483.0 | 3286.7 | 3213.8 | 3220.3 |
| 52.5° | 3311.7 | 3326.6 | 3426.9 | 3587.5 | 3752.2 | 3875.7 | 3823.7 | 3653.4 | 3459.4 | 3388.3 | 3396.2 |
| 55° | 3271.4 | 3282.5 | 3402.7 | 3601.8 | 3807.9 | 3960.2 | 3968.1 | 3820.0 | 3628.8 | 3566.6 | 3588.9 |
| 57.5° | 3087.6 | 3101.5 | 3248.2 | 3509.0 | 3814.9 | 4017.3 | 4076.7 | 3974.6 | 3787.0 | 3736.5 | 3749.4 |
| 60° | 2800.3 | 2809.1 | 2965.5 | 3258.8 | 3679.4 | 4040.9 | 4145.8 | 4100.8 | 3942.1 | 3891.5 | 3909.1 |
| 62.5° | 2288.3 | 2301.3 | 2488.3 | 2881.5 | 3393.0 | 3970.9 | 4212.7 | 4205.2 | 4086.4 | 4040.0 | 4055.8 |
| 65° | 1564.2 | 1586.9 | 1794.0 | 2291.1 | 2951.6 | 3756.4 | 4273.5 | 4326.9 | 4214.1 | 4155.6 | 4176.5 |
| 67.5° | 944.6 | 961.3 | 1111.2 | 1512.7 | 2258.6 | 3323.8 | 4210.8 | 4465.2 | 4304.1 | 4209.9 | 4227.1 |
| 68° | 844.3 | 859.6 | 984.9 | 1365.1 | 2089.2 | 3201.7 | 4153.7 | 4481.0 | 4313.9 | 4209.0 | 4224.3 |
| 70° | 510.1 | 520.3 | 604.3 | 843.8 | 1392.9 | 2539.9 | 3764.3 | 4468.0 | 4376.1 | 4222.0 | 4230.8 |
| 72.5° | 332.3 | 335.6 | 349.5 | 433.1 | 711.6 | 1420.3 | 2825.3 | 4163.5 | 4469.4 | 4297.6 | 4296.2 |
| 75° | 276.2 | 274.3 | 275.7 | 285.5 | 350.9 | 622.9 | 1651.0 | 3289.0 | 4260.5 | 4178.3 | 4149.1 |
| 77.5° | 233.5 | 232.1 | 231.6 | 232.1 | 234.9 | 300.8 | 716.7 | 2048.8 | 3260.2 | 3696.1 | 3722.1 |
| 80° | 188.9 | 187.1 | 193.1 | 190.3 | 181.9 | 187.1 | 300.3 | 852.2 | 1536.8 | 1653.3 | 1549.4 |
| 82.5° | 137.4 | 130.4 | 156.4 | 149.0 | 142.0 | 131.8 | 165.7 | 275.2 | 366.7 | 251.6 | 176.8 |
| 85° | 105.8 | 98.4 | 118.8 | 114.2 | 97.5 | 67.3 | 98.4 | 134.6 | 148.5 | 84.9 | 66.8 |
| 87.5° | 43.2 | 45.5 | 85.9 | 67.8 | 57.1 | 32.5 | 40.4 | 53.8 | 72.4 | 36.2 | 27.8 |
| 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)