

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: INVUE

Report Number: P672729

Luminaire Tested: **CCP-SA-2E-827-U-5NQ**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672729
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2E-827-U-5NQ
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ 5NQ
distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

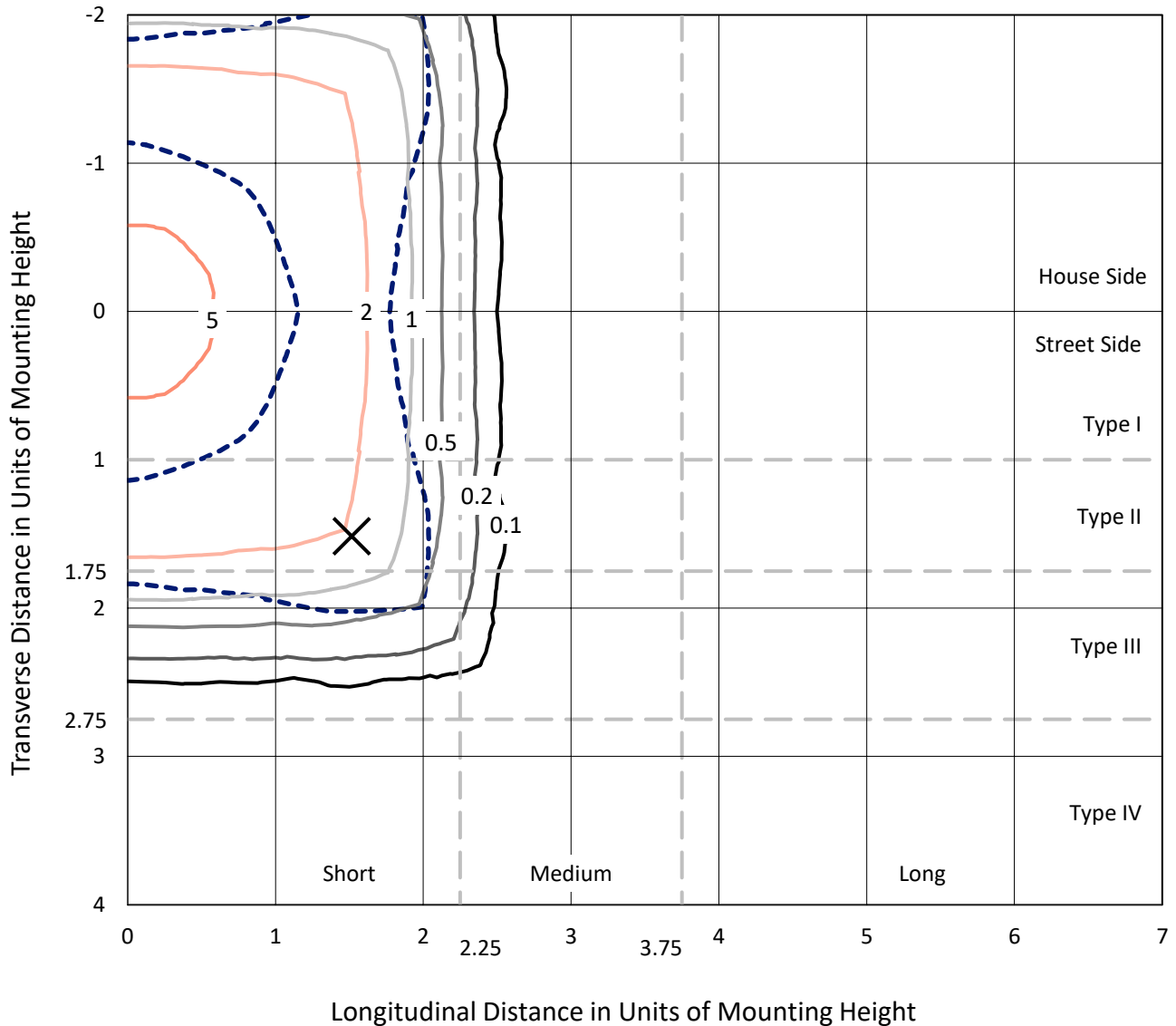
Lumens per Lamp: N/A
Luminaire Lumens: 10459.3 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 106.6
Input Voltage (V): 120
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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

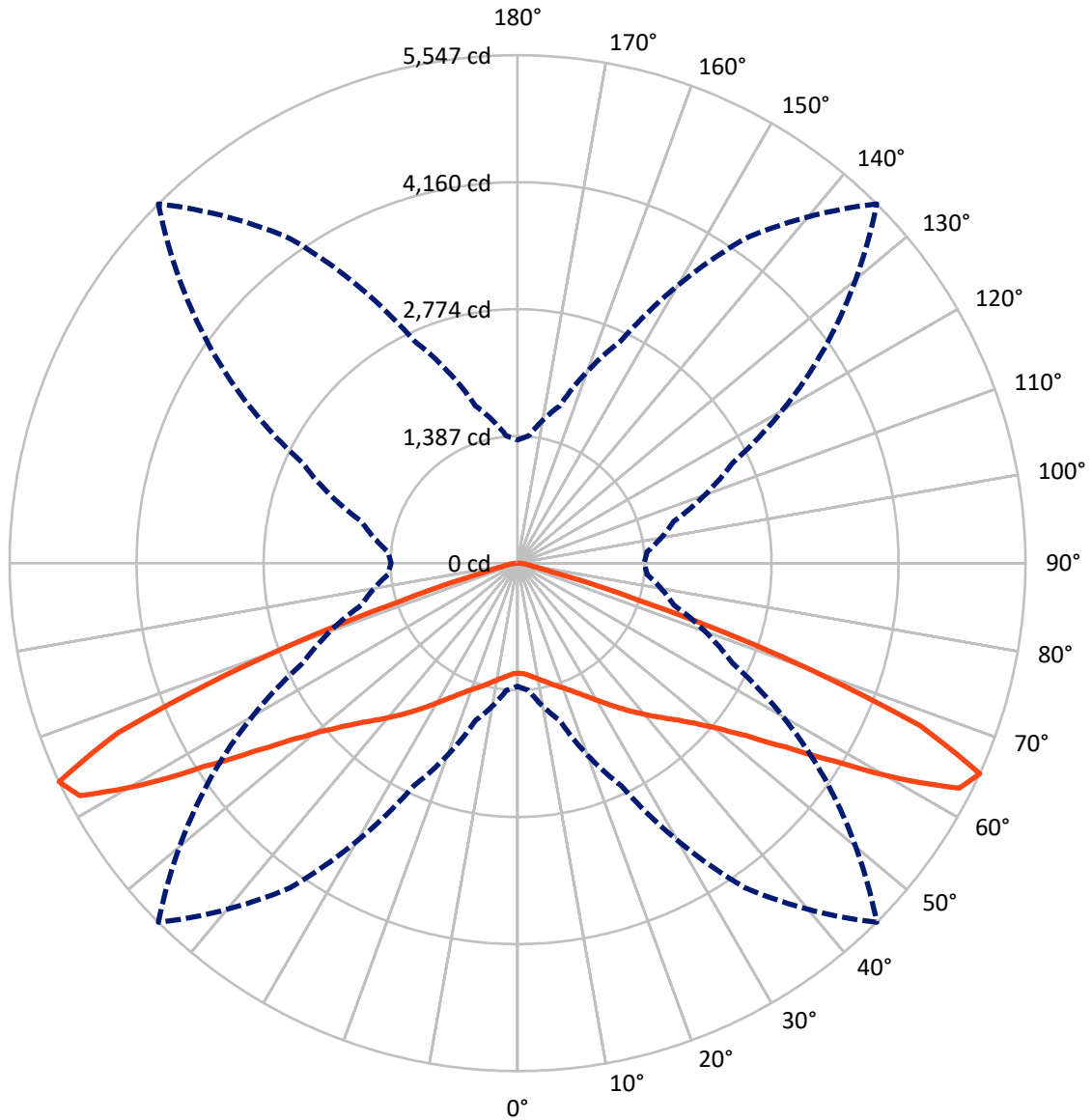
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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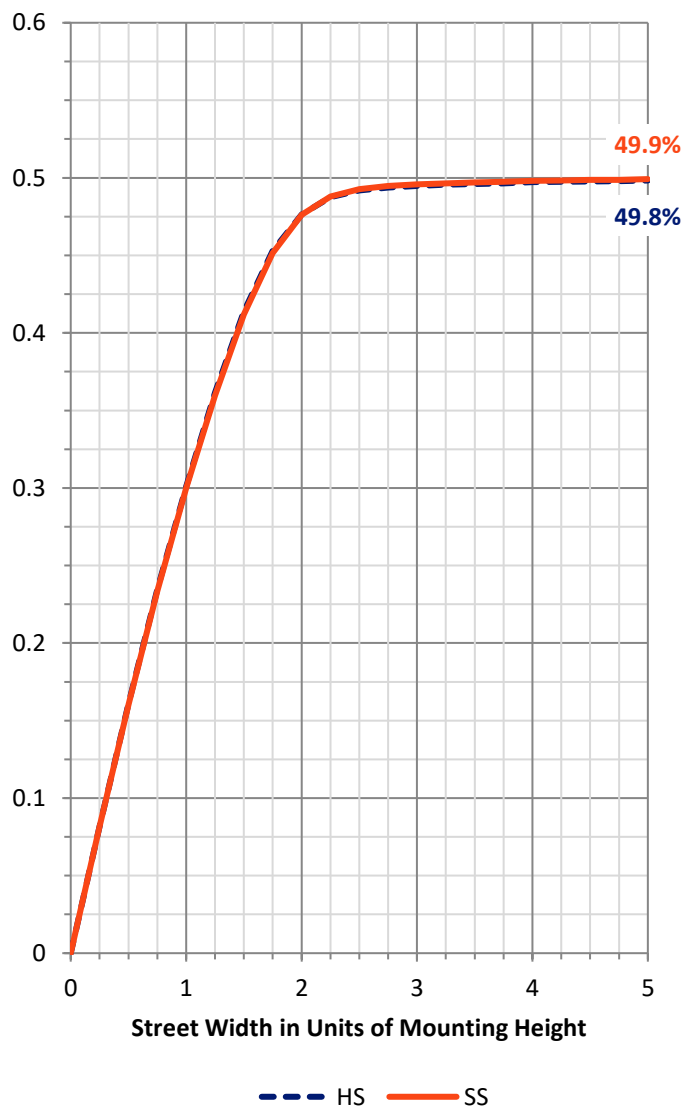
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5229.6 | 0.0 | 5229.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5229.6 | 0.0 | 5229.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 10459.3 | 0.0 | 10459.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 119.1 | 1.1 |
| 10°-20° | 388.8 | 3.7 |
| 20°-30° | 737.5 | 7.1 |
| 30°-40° | 1236.8 | 11.8 |
| 40°-50° | 1957.1 | 18.7 |
| 50°-60° | 3074.6 | 29.4 |
| 60°-70° | 2597.8 | 24.8 |
| 70°-80° | 302.5 | 2.9 |
| 80°-90° | 45.0 | 0.4 |
| 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° | 10459.3 | 100.0 |
| 0°-180° | 10459.3 | 100.0 |



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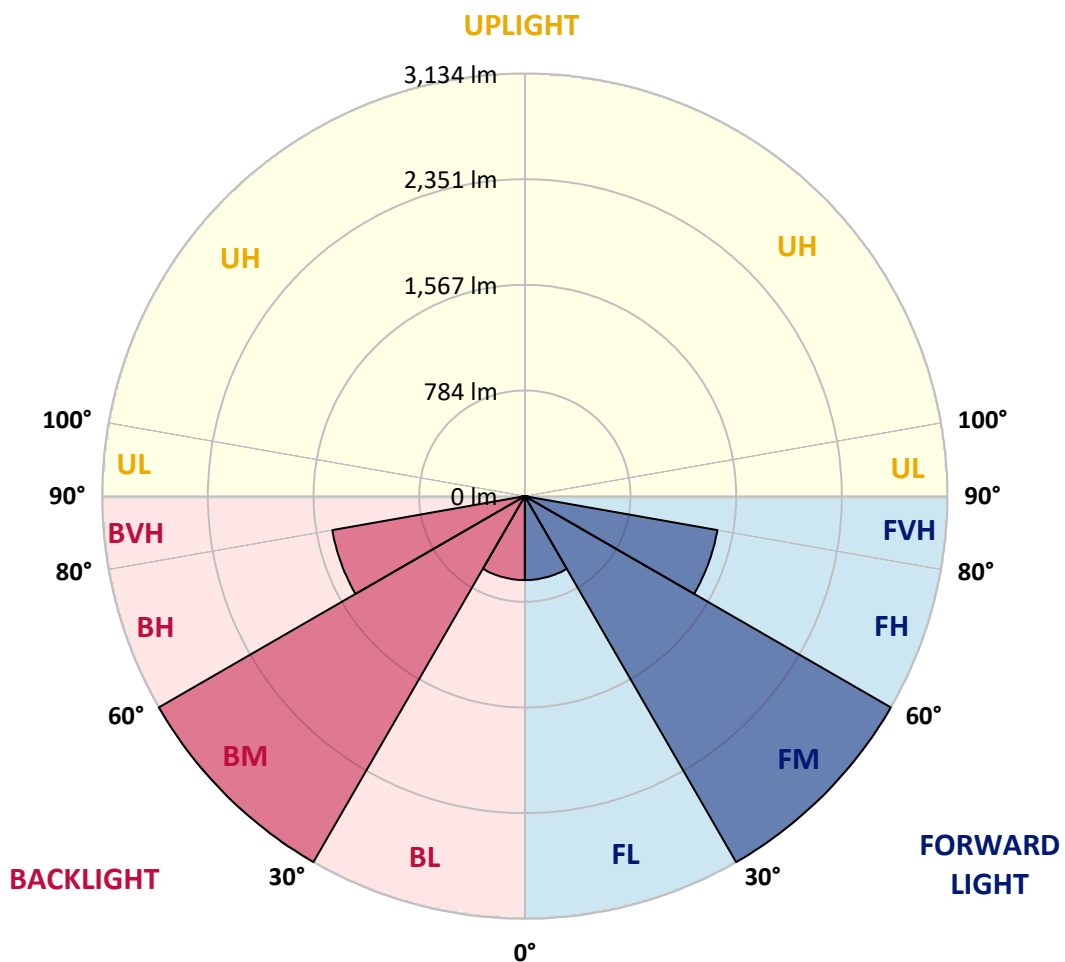
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 622.7 | 6.0 | | | |
| FM (30°-60°) | 3134.3 | 30.0 | | | |
| FH (60°-80°) | 1450.2 | 13.9 | | | G1/1800 |
| FVH (80°-90°) | 22.5 | 0.2 | | | G1/100 |
| BL (0°-30°) | 622.7 | 6.0 | B2/1000 | | |
| BM (30°-60°) | 3134.3 | 30.0 | B3/5000 | | |
| BH (60°-80°) | 1450.2 | 13.9 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 22.5 | 0.2 | | | 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° | 1202.6 | 1202.6 | 1202.6 | 1202.6 | 1202.6 | 1202.6 | 1202.6 | 1202.6 | 1202.6 | 1202.6 | 1202.6 |
| 2.5° | 1209.3 | 1205.6 | 1209.3 | 1209.3 | 1207.1 | 1207.8 | 1204.8 | 1204.1 | 1207.8 | 1204.8 | 1204.1 |
| 5° | 1234.3 | 1231.3 | 1234.3 | 1232.0 | 1228.4 | 1229.1 | 1224.7 | 1223.2 | 1227.6 | 1223.2 | 1224.0 |
| 7.5° | 1262.9 | 1257.8 | 1259.2 | 1261.4 | 1257.8 | 1257.8 | 1254.1 | 1251.9 | 1254.1 | 1249.7 | 1252.6 |
| 10° | 1287.2 | 1282.8 | 1285.0 | 1287.9 | 1287.2 | 1289.4 | 1285.7 | 1284.2 | 1282.0 | 1276.9 | 1281.3 |
| 12.5° | 1318.8 | 1317.3 | 1320.3 | 1323.9 | 1322.5 | 1325.4 | 1317.3 | 1315.1 | 1314.4 | 1308.5 | 1313.6 |
| 15° | 1360.0 | 1356.3 | 1361.4 | 1365.8 | 1363.6 | 1368.8 | 1362.2 | 1359.2 | 1355.5 | 1348.2 | 1352.6 |
| 17.5° | 1401.1 | 1398.2 | 1405.5 | 1407.7 | 1408.5 | 1412.9 | 1407.7 | 1403.3 | 1401.9 | 1396.7 | 1393.8 |
| 20° | 1450.4 | 1446.7 | 1452.6 | 1457.0 | 1453.3 | 1458.5 | 1456.3 | 1453.3 | 1451.8 | 1443.8 | 1443.0 |
| 22.5° | 1505.5 | 1500.4 | 1509.2 | 1514.3 | 1509.2 | 1514.3 | 1509.9 | 1509.2 | 1509.9 | 1498.2 | 1499.6 |
| 25° | 1567.3 | 1568.0 | 1576.8 | 1580.5 | 1577.5 | 1580.5 | 1573.9 | 1578.3 | 1576.1 | 1563.6 | 1559.2 |
| 27.5° | 1646.6 | 1643.7 | 1653.3 | 1664.3 | 1656.9 | 1656.9 | 1654.0 | 1658.4 | 1657.7 | 1645.9 | 1643.0 |
| 30° | 1739.3 | 1738.5 | 1752.5 | 1759.1 | 1748.8 | 1744.4 | 1743.7 | 1754.7 | 1755.4 | 1742.9 | 1737.8 |
| 32.5° | 1836.3 | 1836.3 | 1853.2 | 1861.3 | 1846.6 | 1843.7 | 1840.7 | 1855.4 | 1853.2 | 1836.3 | 1825.3 |
| 35° | 1942.9 | 1938.5 | 1961.3 | 1973.0 | 1958.3 | 1949.5 | 1948.0 | 1961.3 | 1958.3 | 1934.8 | 1921.6 |
| 37.5° | 2048.0 | 2051.0 | 2077.4 | 2090.7 | 2073.0 | 2062.0 | 2065.7 | 2074.5 | 2075.2 | 2049.5 | 2035.5 |
| 40° | 2176.7 | 2177.4 | 2210.5 | 2220.8 | 2198.0 | 2181.1 | 2186.2 | 2206.1 | 2204.6 | 2173.0 | 2155.3 |
| 42.5° | 2320.7 | 2317.8 | 2359.0 | 2367.8 | 2336.9 | 2304.6 | 2320.0 | 2350.9 | 2358.2 | 2322.9 | 2304.6 |
| 45° | 2475.1 | 2479.5 | 2522.2 | 2531.7 | 2483.2 | 2442.0 | 2475.1 | 2521.4 | 2531.0 | 2492.8 | 2470.0 |
| 47.5° | 2662.6 | 2667.7 | 2719.2 | 2722.8 | 2667.7 | 2614.1 | 2658.2 | 2718.4 | 2722.1 | 2669.2 | 2642.7 |
| 50° | 2876.5 | 2894.1 | 2951.5 | 2958.8 | 2904.4 | 2835.3 | 2898.5 | 2952.2 | 2938.2 | 2867.7 | 2843.4 |
| 52.5° | 3119.1 | 3133.0 | 3222.7 | 3253.6 | 3205.8 | 3131.6 | 3182.3 | 3215.4 | 3170.5 | 3077.9 | 3040.4 |
| 55° | 3325.6 | 3349.2 | 3468.3 | 3562.3 | 3598.4 | 3542.5 | 3536.6 | 3488.1 | 3363.1 | 3222.0 | 3183.0 |
| 57.5° | 3383.7 | 3406.5 | 3591.0 | 3833.6 | 4047.5 | 4075.5 | 3946.1 | 3702.8 | 3433.7 | 3216.1 | 3176.4 |
| 60° | 3147.7 | 3178.6 | 3448.4 | 3907.8 | 4521.7 | 4774.5 | 4307.0 | 3721.1 | 3250.7 | 2958.8 | 2908.8 |
| 62.5° | 2472.2 | 2529.5 | 2878.0 | 3598.4 | 4712.8 | 5411.1 | 4455.5 | 3404.3 | 2698.6 | 2353.8 | 2287.7 |
| 65° | 1344.5 | 1393.8 | 1778.2 | 2681.7 | 4325.4 | 5547.1 | 4091.6 | 2592.0 | 1765.0 | 1418.8 | 1382.7 |
| 67.5° | 504.3 | 540.3 | 716.7 | 1325.4 | 3058.1 | 4742.2 | 3105.8 | 1484.2 | 801.3 | 574.9 | 524.1 |
| 70° | 214.7 | 219.1 | 259.5 | 461.6 | 1390.1 | 3085.3 | 1590.0 | 504.3 | 267.6 | 216.1 | 210.2 |
| 72.5° | 154.4 | 155.1 | 166.1 | 204.4 | 423.4 | 1353.3 | 480.8 | 211.7 | 163.2 | 147.0 | 147.0 |
| 75° | 123.5 | 124.2 | 130.8 | 147.8 | 200.0 | 398.4 | 207.3 | 148.5 | 126.4 | 115.4 | 113.9 |
| 77.5° | 97.0 | 98.5 | 105.1 | 115.4 | 133.8 | 182.3 | 140.4 | 116.9 | 101.4 | 91.2 | 89.7 |
| 80° | 72.0 | 74.2 | 83.1 | 88.2 | 94.1 | 121.3 | 102.2 | 91.2 | 80.9 | 69.8 | 67.6 |
| 82.5° | 47.8 | 50.0 | 61.7 | 65.4 | 64.7 | 76.5 | 70.6 | 69.8 | 61.7 | 46.3 | 44.1 |
| 85° | 28.7 | 30.1 | 39.7 | 42.6 | 39.7 | 37.5 | 44.8 | 48.5 | 43.4 | 30.1 | 27.9 |
| 87.5° | 12.5 | 12.5 | 17.6 | 18.4 | 17.6 | 14.0 | 21.3 | 25.0 | 25.7 | 15.4 | 14.0 |
| 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)