

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: P672616

Luminaire Tested: **CCP-SA-2C-840-U-5MQ**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672616
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2C-840-U-5MQ
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @615mA w/ 5MQ
distribution lens
Light Source: (32) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

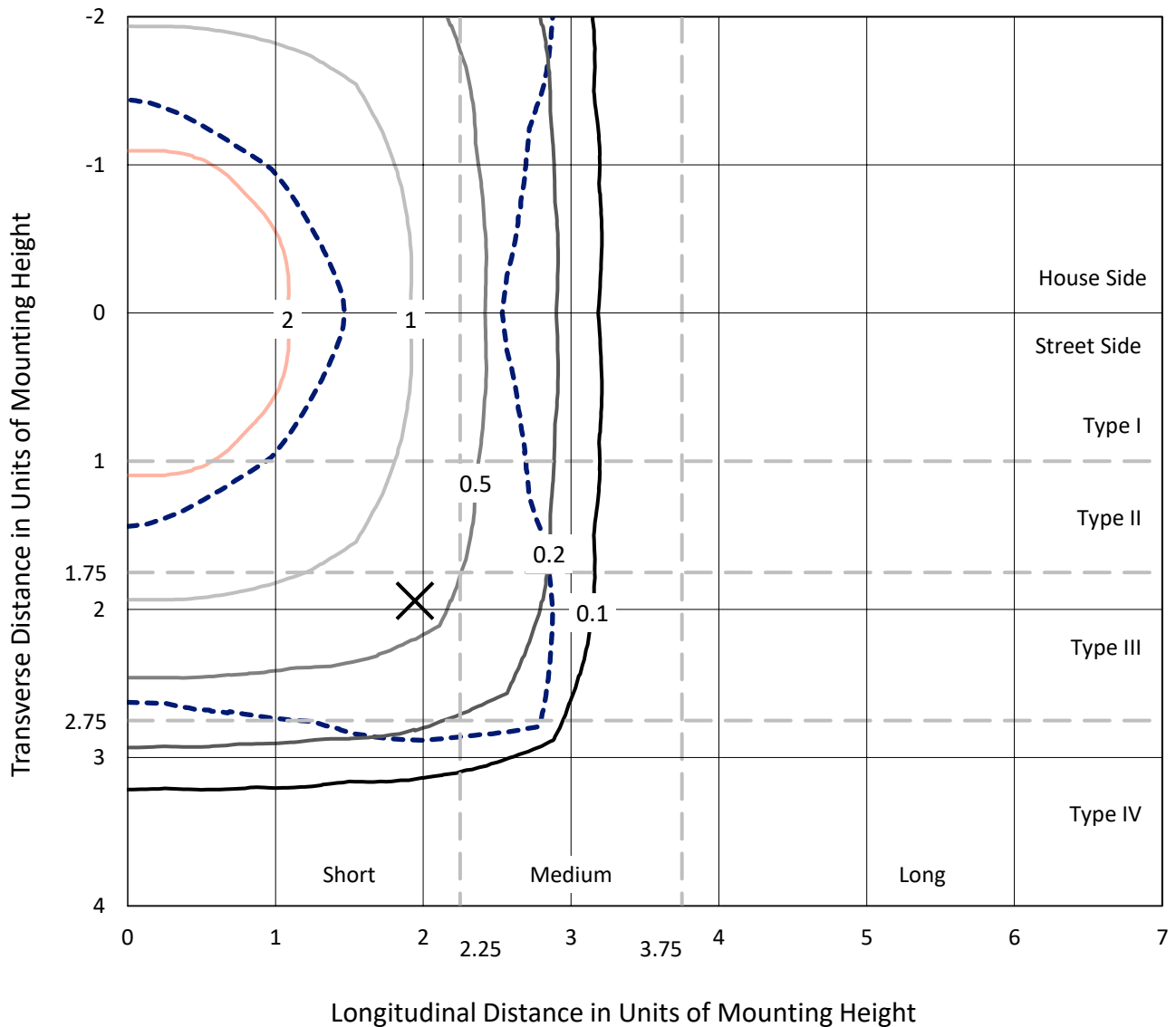
Lumens per Lamp: N/A
Luminaire Lumens: 7957.4 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 62.1
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

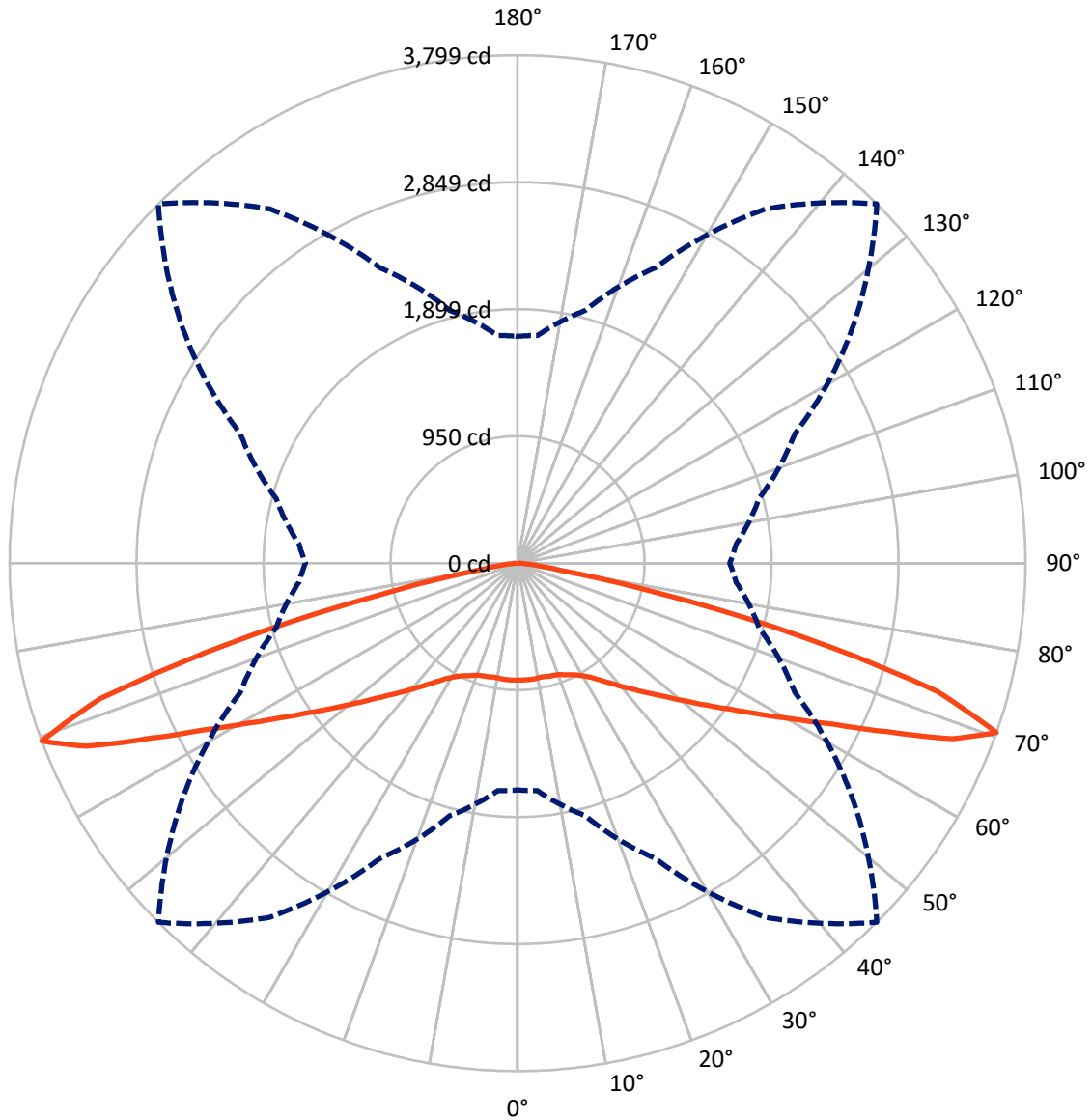
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.9 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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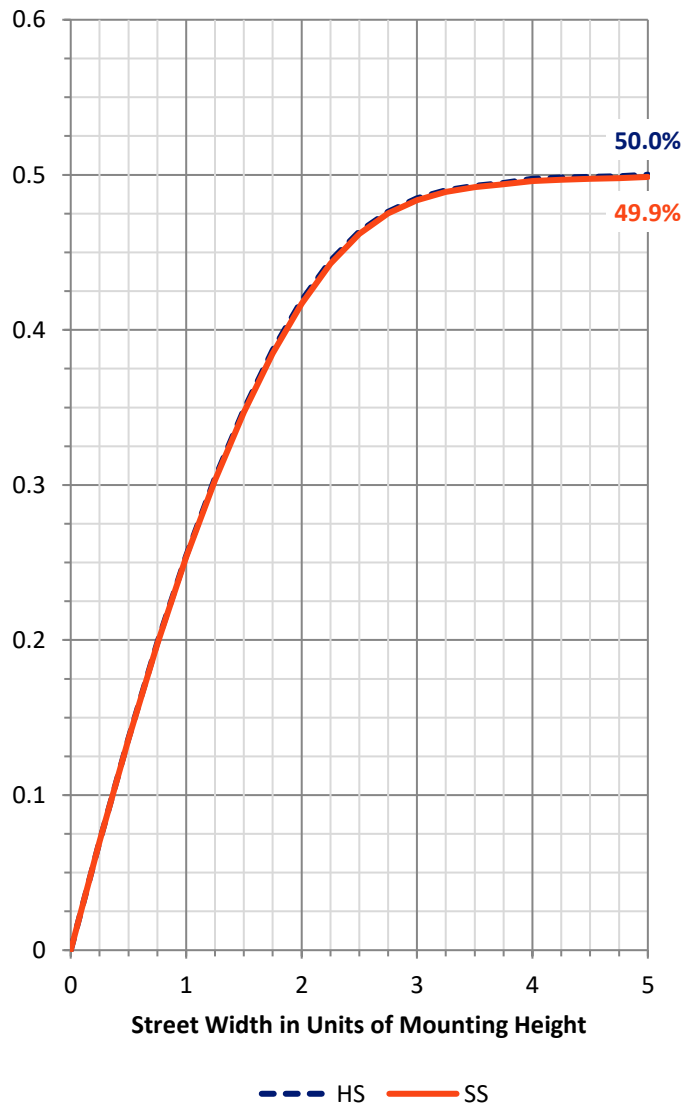
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3978.7 | 0.0 | 3978.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3978.7 | 0.0 | 3978.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 7957.4 | 0.0 | 7957.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 83.2 | 1.0 |
| 10°-20° | 246.3 | 3.1 |
| 20°-30° | 420.7 | 5.3 |
| 30°-40° | 671.3 | 8.4 |
| 40°-50° | 1083.3 | 13.6 |
| 50°-60° | 1734.7 | 21.8 |
| 60°-70° | 2539.6 | 31.9 |
| 70°-80° | 1116.9 | 14.0 |
| 80°-90° | 61.2 | 0.8 |
| 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° | 7957.4 | 100.0 |
| 0°-180° | 7957.4 | 100.0 |



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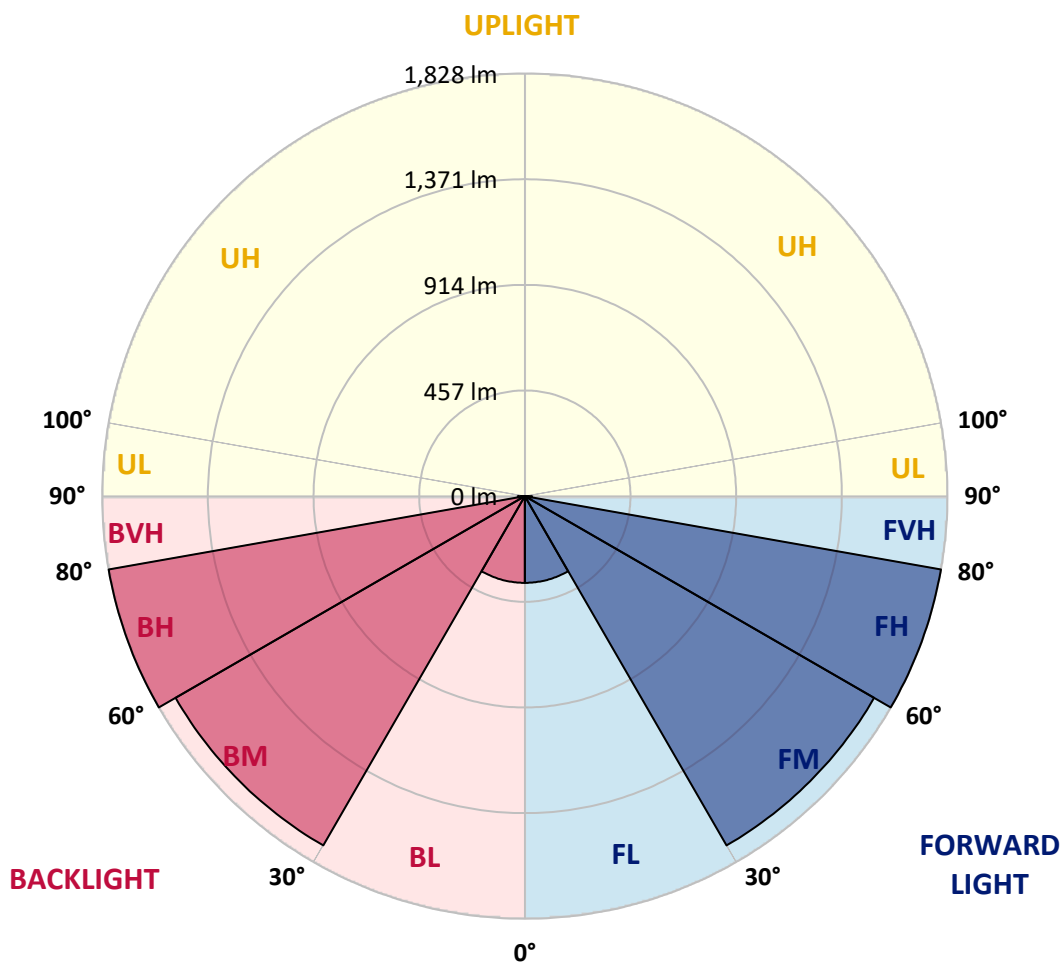
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 375.1 | 4.7 | | | |
| FM (30°-60°) | 1744.7 | 21.9 | | | |
| FH (60°-80°) | 1828.2 | 23.0 | | | G2/5000 |
| FVH (80°-90°) | 30.6 | 0.4 | | | G1/100 |
| BL (0°-30°) | 375.1 | 4.7 | B1/500 | | |
| BM (30°-60°) | 1744.7 | 21.9 | B2/2500 | | |
| BH (60°-80°) | 1828.2 | 23.0 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 30.6 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 875.0 | 875.0 | 875.0 | 875.0 | 875.0 | 875.0 | 875.0 | 875.0 | 875.0 | 875.0 | 875.0 |
| 2.5° | 873.9 | 873.4 | 874.5 | 875.0 | 873.9 | 874.5 | 871.1 | 871.1 | 872.8 | 871.1 | 873.4 |
| 5° | 877.9 | 876.7 | 877.9 | 877.9 | 875.0 | 875.0 | 871.1 | 870.0 | 871.1 | 868.3 | 870.5 |
| 7.5° | 878.4 | 876.2 | 877.9 | 877.3 | 875.0 | 875.0 | 869.4 | 867.2 | 867.7 | 864.9 | 866.6 |
| 10° | 872.8 | 871.7 | 873.9 | 872.8 | 871.1 | 871.1 | 866.6 | 863.2 | 863.2 | 860.4 | 862.1 |
| 12.5° | 869.4 | 868.3 | 871.1 | 871.7 | 870.5 | 871.1 | 865.5 | 861.0 | 859.3 | 855.9 | 857.0 |
| 15° | 869.4 | 867.2 | 871.7 | 872.8 | 873.9 | 877.9 | 869.4 | 861.5 | 858.1 | 853.6 | 854.8 |
| 17.5° | 868.8 | 867.7 | 872.8 | 876.7 | 877.9 | 882.4 | 872.8 | 864.3 | 860.4 | 853.6 | 854.8 |
| 20° | 868.8 | 868.3 | 874.5 | 881.8 | 885.2 | 889.1 | 879.0 | 871.1 | 864.3 | 857.0 | 857.0 |
| 22.5° | 871.7 | 871.1 | 879.6 | 890.3 | 899.9 | 906.6 | 894.8 | 881.8 | 872.8 | 863.2 | 862.1 |
| 25° | 883.5 | 882.4 | 892.5 | 905.5 | 918.5 | 925.2 | 913.4 | 900.4 | 887.5 | 876.7 | 875.6 |
| 27.5° | 907.8 | 907.2 | 917.3 | 933.1 | 942.1 | 947.2 | 937.1 | 925.8 | 912.8 | 900.4 | 899.9 |
| 30° | 940.5 | 940.5 | 953.4 | 969.8 | 974.8 | 978.8 | 968.6 | 960.7 | 947.2 | 933.7 | 932.6 |
| 32.5° | 979.9 | 982.2 | 997.4 | 1015.4 | 1018.8 | 1021.1 | 1010.4 | 1005.3 | 990.6 | 976.0 | 973.7 |
| 35° | 1031.8 | 1032.4 | 1051.0 | 1069.0 | 1073.5 | 1075.8 | 1063.4 | 1058.9 | 1045.3 | 1029.5 | 1026.2 |
| 37.5° | 1097.8 | 1096.1 | 1113.5 | 1133.8 | 1138.4 | 1141.2 | 1131.0 | 1127.6 | 1110.7 | 1094.9 | 1089.9 |
| 40° | 1171.6 | 1172.7 | 1192.5 | 1211.7 | 1214.5 | 1215.6 | 1210.5 | 1205.4 | 1189.7 | 1171.6 | 1165.4 |
| 42.5° | 1257.3 | 1257.3 | 1280.4 | 1303.0 | 1303.0 | 1297.4 | 1295.1 | 1294.0 | 1278.7 | 1258.4 | 1251.7 |
| 45° | 1355.4 | 1356.6 | 1385.3 | 1402.2 | 1403.3 | 1388.1 | 1390.4 | 1397.1 | 1382.5 | 1356.6 | 1347.5 |
| 47.5° | 1463.1 | 1464.8 | 1498.6 | 1517.2 | 1513.9 | 1494.1 | 1506.5 | 1509.9 | 1493.0 | 1459.7 | 1447.9 |
| 50° | 1576.4 | 1581.5 | 1619.3 | 1652.0 | 1647.5 | 1618.7 | 1635.1 | 1636.2 | 1608.6 | 1570.2 | 1553.9 |
| 52.5° | 1698.8 | 1710.6 | 1760.8 | 1795.8 | 1800.3 | 1764.2 | 1778.3 | 1777.2 | 1741.6 | 1689.2 | 1678.5 |
| 55° | 1850.5 | 1857.2 | 1906.8 | 1956.5 | 1973.4 | 1928.8 | 1944.6 | 1936.7 | 1888.8 | 1829.0 | 1811.0 |
| 57.5° | 2002.1 | 2012.3 | 2076.0 | 2131.8 | 2165.6 | 2127.9 | 2131.2 | 2110.9 | 2050.6 | 1978.4 | 1969.4 |
| 60° | 2182.0 | 2186.5 | 2257.0 | 2329.7 | 2388.3 | 2365.8 | 2350.0 | 2307.7 | 2236.7 | 2164.5 | 2151.5 |
| 62.5° | 2329.1 | 2338.2 | 2443.0 | 2550.2 | 2649.4 | 2653.3 | 2605.4 | 2542.3 | 2428.9 | 2308.3 | 2282.3 |
| 65° | 2369.7 | 2384.4 | 2531.6 | 2743.0 | 2949.3 | 3041.2 | 2909.9 | 2717.1 | 2463.9 | 2281.8 | 2242.9 |
| 67.5° | 2180.9 | 2209.0 | 2419.4 | 2770.6 | 3228.4 | 3504.1 | 3152.3 | 2634.2 | 2280.7 | 2068.1 | 2030.9 |
| 70° | 1696.0 | 1708.4 | 1955.3 | 2437.4 | 3232.9 | 3798.5 | 3054.8 | 2287.4 | 1869.6 | 1641.3 | 1586.6 |
| 72.5° | 901.0 | 907.2 | 1129.9 | 1641.3 | 2630.8 | 3281.4 | 2524.2 | 1600.7 | 1100.6 | 893.1 | 830.5 |
| 75° | 290.9 | 298.8 | 389.0 | 672.1 | 1451.3 | 2205.1 | 1488.5 | 665.9 | 379.5 | 306.2 | 289.8 |
| 77.5° | 148.3 | 147.7 | 164.1 | 216.5 | 488.3 | 1080.8 | 516.5 | 233.4 | 164.1 | 147.2 | 142.6 |
| 80° | 92.5 | 90.8 | 103.2 | 118.4 | 170.8 | 315.7 | 185.5 | 130.8 | 103.7 | 89.1 | 88.5 |
| 82.5° | 52.4 | 52.4 | 69.3 | 76.1 | 96.4 | 130.2 | 108.3 | 89.6 | 71.0 | 53.0 | 51.3 |
| 85° | 29.3 | 25.9 | 43.4 | 47.9 | 55.3 | 64.3 | 66.0 | 58.1 | 47.9 | 29.3 | 30.4 |
| 87.5° | 10.7 | 11.8 | 20.3 | 19.2 | 22.0 | 15.2 | 27.1 | 30.4 | 27.1 | 14.1 | 11.8 |
| 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)