

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: P649735

Luminaire Tested: **GLAN-SA2A-835-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P649735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2A-835-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6109.1 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

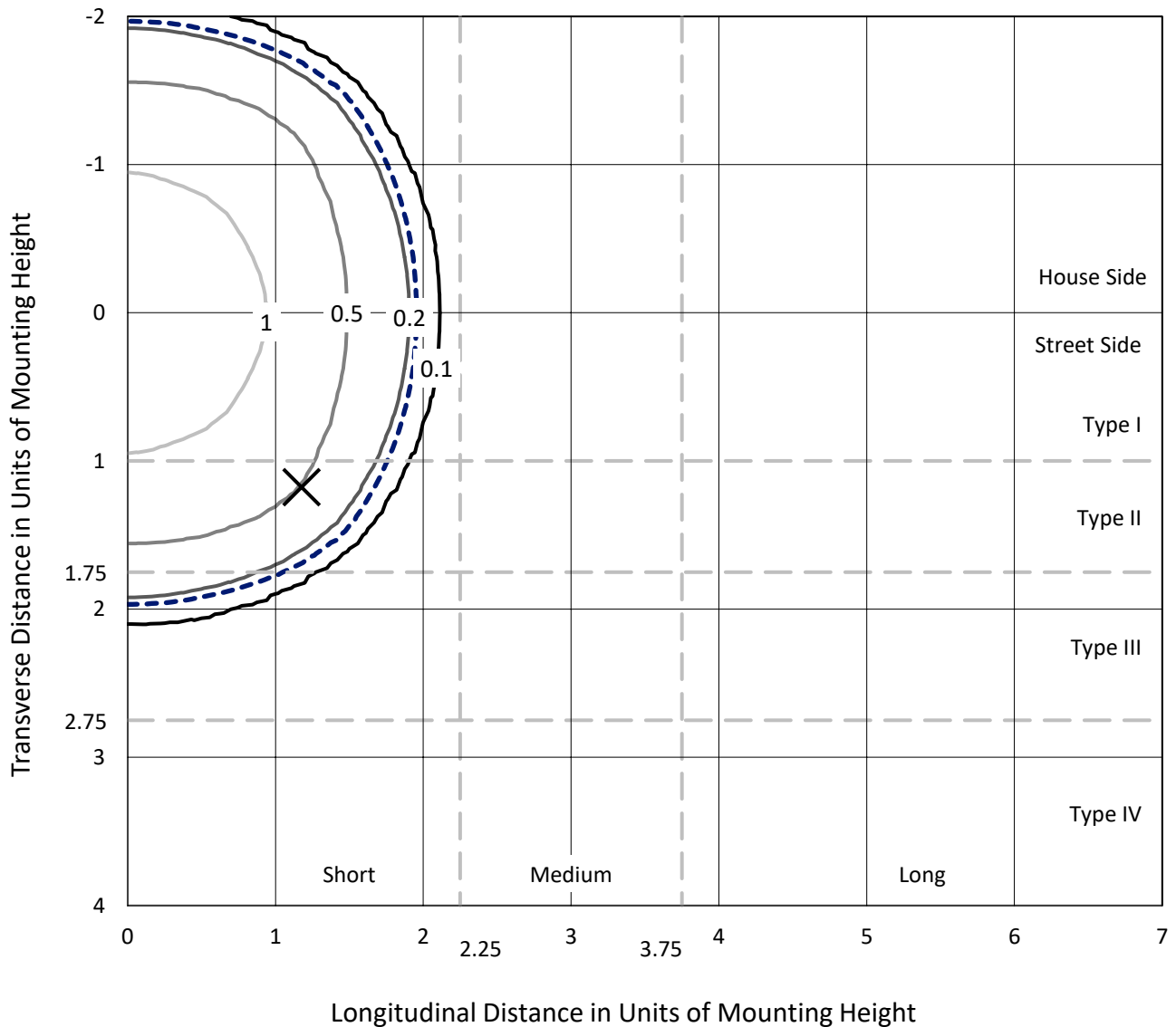
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

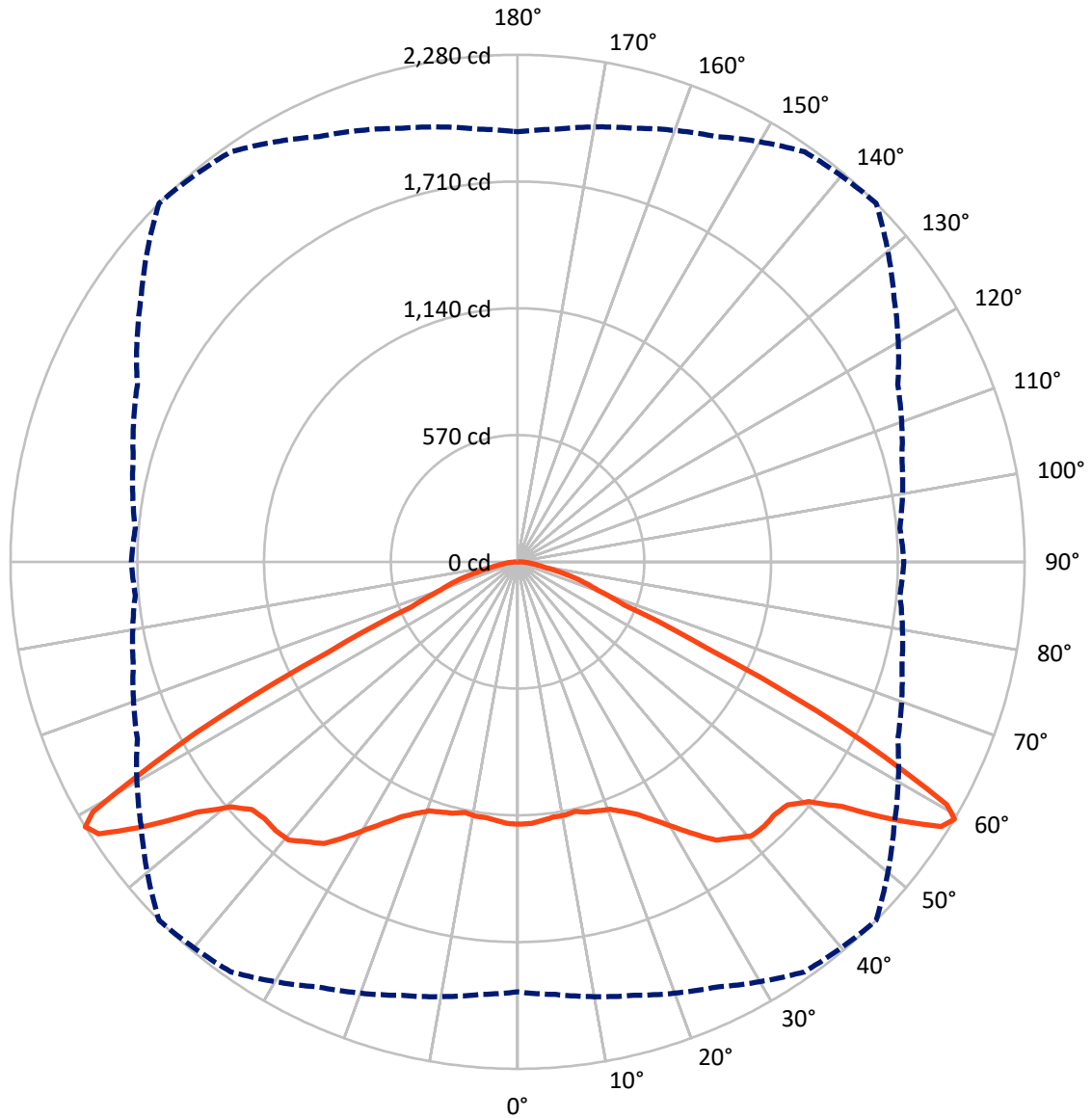
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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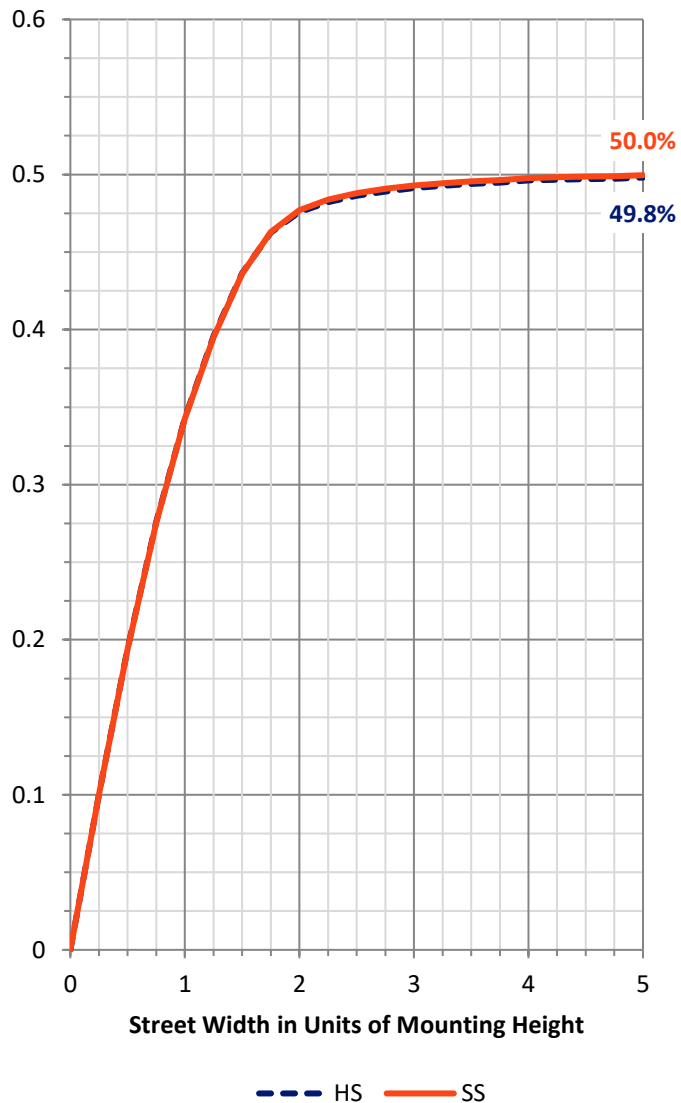
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3054.5 | 0.0 | 3054.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3054.5 | 0.0 | 3054.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6109.1 | 0.0 | 6109.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 111.2 | 1.8 |
| 10°-20° | 330.8 | 5.4 |
| 20°-30° | 577.6 | 9.5 |
| 30°-40° | 922.5 | 15.1 |
| 40°-50° | 1256.6 | 20.6 |
| 50°-60° | 1699.3 | 27.8 |
| 60°-70° | 931.9 | 15.3 |
| 70°-80° | 238.4 | 3.9 |
| 80°-90° | 40.7 | 0.7 |
| 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° | 6109.1 | 100.0 |
| 0°-180° | 6109.1 | 100.0 |

Coefficient of Utilization



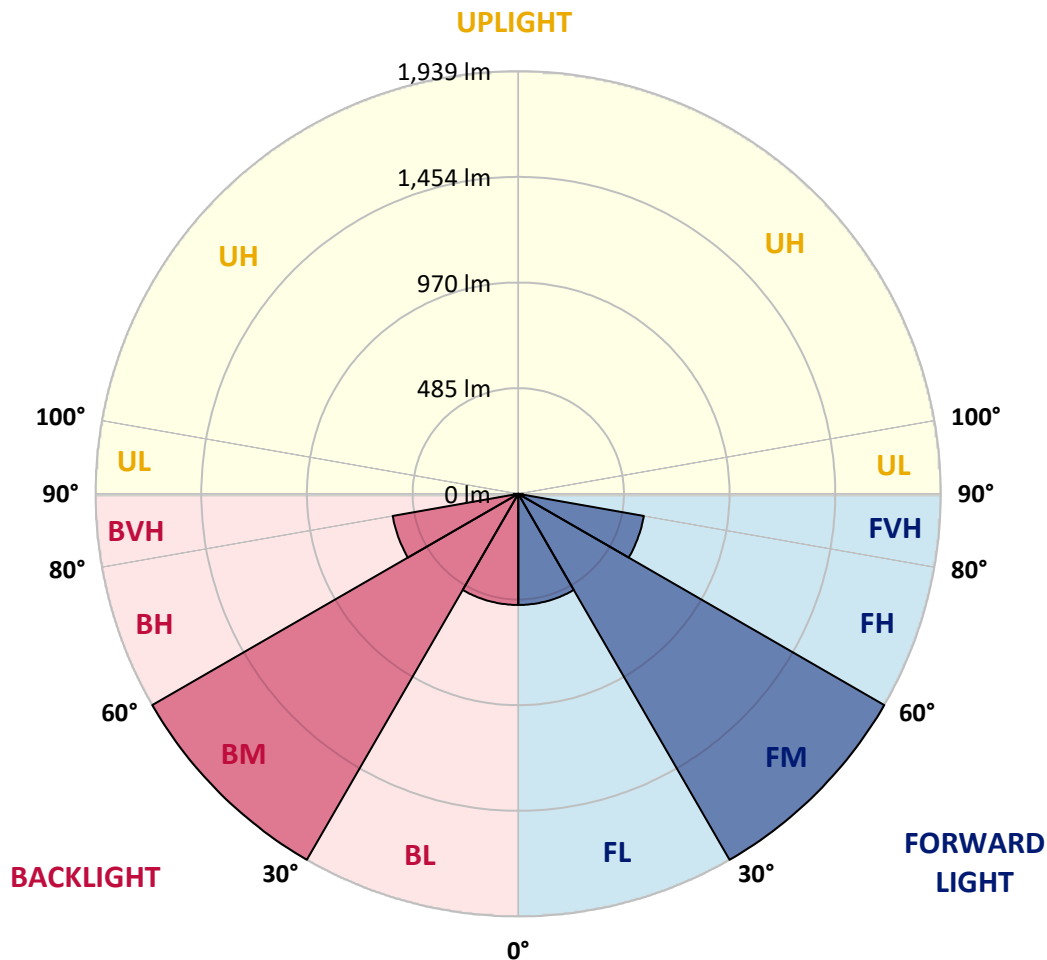
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 509.8 | 8.3 | | | |
| FM (30°-60°) | 1939.2 | 31.7 | | | |
| FH (60°-80°) | 585.2 | 9.6 | | | G0/660 |
| FVH (80°-90°) | 20.3 | 0.3 | | | G1/100 |
| BL (0°-30°) | 509.8 | 8.3 | B2/1000 | | |
| BM (30°-60°) | 1939.2 | 31.7 | B2/2500 | | |
| BH (60°-80°) | 585.2 | 9.6 | B2/1000 | | G0/660 |
| BVH (80°-90°) | 20.3 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1180.0 | 1180.0 | 1180.0 | 1180.0 | 1180.0 | 1180.0 | 1180.0 | 1180.0 | 1180.0 | 1180.0 | 1180.0 |
| 2.5° | 1172.9 | 1181.5 | 1175.3 | 1180.8 | 1180.0 | 1177.6 | 1173.7 | 1171.4 | 1168.2 | 1172.9 | 1165.1 |
| 5° | 1168.2 | 1175.3 | 1182.3 | 1172.9 | 1172.9 | 1168.2 | 1165.9 | 1161.2 | 1161.2 | 1160.4 | 1159.6 |
| 7.5° | 1176.1 | 1169.0 | 1165.9 | 1167.5 | 1169.0 | 1158.8 | 1165.9 | 1156.5 | 1148.7 | 1154.1 | 1160.4 |
| 10° | 1169.0 | 1172.2 | 1160.4 | 1165.9 | 1157.3 | 1158.8 | 1154.1 | 1160.4 | 1151.8 | 1151.8 | 1151.8 |
| 12.5° | 1176.1 | 1167.5 | 1171.4 | 1167.5 | 1165.1 | 1151.8 | 1158.1 | 1151.0 | 1150.2 | 1158.1 | 1151.0 |
| 15° | 1190.2 | 1176.1 | 1172.9 | 1165.1 | 1167.5 | 1167.5 | 1161.2 | 1162.0 | 1153.4 | 1158.1 | 1159.6 |
| 17.5° | 1185.5 | 1177.6 | 1175.3 | 1165.9 | 1173.7 | 1176.1 | 1164.3 | 1156.5 | 1162.0 | 1161.2 | 1160.4 |
| 20° | 1189.4 | 1192.5 | 1190.2 | 1191.7 | 1194.9 | 1188.6 | 1177.6 | 1166.7 | 1159.6 | 1169.8 | 1169.0 |
| 22.5° | 1214.4 | 1211.3 | 1209.7 | 1208.2 | 1213.6 | 1219.9 | 1205.0 | 1187.8 | 1187.8 | 1194.9 | 1198.0 |
| 25° | 1234.8 | 1234.0 | 1233.2 | 1240.3 | 1259.1 | 1259.1 | 1240.3 | 1218.3 | 1212.9 | 1217.6 | 1213.6 |
| 27.5° | 1264.5 | 1273.2 | 1270.0 | 1282.6 | 1310.0 | 1316.2 | 1291.2 | 1265.3 | 1250.5 | 1245.0 | 1252.0 |
| 30° | 1332.7 | 1322.5 | 1324.8 | 1338.1 | 1362.4 | 1382.8 | 1344.4 | 1317.0 | 1296.6 | 1295.9 | 1299.0 |
| 32.5° | 1378.1 | 1385.9 | 1393.0 | 1405.5 | 1443.9 | 1459.5 | 1413.3 | 1368.7 | 1356.2 | 1349.1 | 1351.5 |
| 35° | 1468.9 | 1461.9 | 1460.3 | 1472.8 | 1511.2 | 1537.0 | 1479.1 | 1439.9 | 1423.5 | 1439.2 | 1439.2 |
| 37.5° | 1555.0 | 1535.5 | 1520.6 | 1537.0 | 1572.3 | 1575.4 | 1526.1 | 1504.9 | 1496.3 | 1514.3 | 1513.5 |
| 40° | 1595.8 | 1594.2 | 1559.7 | 1569.1 | 1616.1 | 1620.8 | 1574.6 | 1549.6 | 1548.0 | 1571.5 | 1595.0 |
| 42.5° | 1638.0 | 1623.2 | 1588.7 | 1595.0 | 1623.9 | 1625.5 | 1581.7 | 1574.6 | 1591.8 | 1614.5 | 1616.1 |
| 45° | 1645.1 | 1632.6 | 1610.6 | 1595.0 | 1616.1 | 1620.8 | 1595.0 | 1599.7 | 1601.2 | 1628.6 | 1628.6 |
| 47.5° | 1659.2 | 1657.6 | 1645.1 | 1633.3 | 1637.3 | 1633.3 | 1616.9 | 1623.9 | 1647.4 | 1660.7 | 1654.5 |
| 50° | 1698.3 | 1681.9 | 1694.4 | 1684.2 | 1685.0 | 1696.0 | 1681.1 | 1688.1 | 1683.4 | 1671.7 | 1663.9 |
| 52.5° | 1784.5 | 1776.6 | 1787.6 | 1794.6 | 1802.5 | 1827.5 | 1810.3 | 1772.7 | 1737.5 | 1706.2 | 1705.4 |
| 55° | 1910.5 | 1916.0 | 1937.1 | 1973.2 | 2003.7 | 2043.6 | 1960.6 | 1870.6 | 1814.2 | 1764.9 | 1768.0 |
| 57.5° | 2029.5 | 2025.6 | 2054.6 | 2136.8 | 2226.0 | 2246.3 | 2083.6 | 1955.2 | 1863.5 | 1832.2 | 1818.9 |
| 59° | 1934.0 | 1952.8 | 2018.6 | 2110.2 | 2250.3 | 2280.0 | 2067.1 | 1886.2 | 1789.2 | 1725.7 | 1736.7 |
| 60° | 1783.7 | 1790.7 | 1849.4 | 1977.1 | 2166.6 | 2217.4 | 1956.7 | 1779.8 | 1650.6 | 1613.8 | 1630.2 |
| 62.5° | 1260.6 | 1255.1 | 1297.4 | 1401.6 | 1571.5 | 1640.4 | 1454.8 | 1330.3 | 1248.9 | 1208.2 | 1217.6 |
| 65° | 670.2 | 695.3 | 712.5 | 777.5 | 867.6 | 940.4 | 863.6 | 809.6 | 764.2 | 730.5 | 729.8 |
| 67.5° | 452.6 | 449.4 | 453.4 | 468.2 | 498.8 | 519.1 | 517.6 | 490.2 | 486.2 | 480.0 | 487.0 |
| 70° | 381.3 | 379.8 | 372.7 | 372.7 | 379.0 | 383.7 | 389.2 | 392.3 | 398.5 | 406.4 | 405.6 |
| 72.5° | 309.3 | 305.4 | 300.7 | 298.3 | 306.2 | 308.5 | 315.5 | 318.7 | 324.2 | 323.4 | 330.4 |
| 75° | 204.4 | 204.4 | 209.8 | 216.1 | 218.5 | 223.2 | 223.9 | 233.3 | 233.3 | 234.9 | 228.6 |
| 77.5° | 114.3 | 111.2 | 115.1 | 121.4 | 126.8 | 135.5 | 144.1 | 151.1 | 155.0 | 153.5 | 153.5 |
| 80° | 66.6 | 66.6 | 70.5 | 77.5 | 84.6 | 92.4 | 98.7 | 104.1 | 108.1 | 106.5 | 103.4 |
| 82.5° | 41.5 | 41.5 | 45.4 | 52.5 | 57.9 | 62.6 | 71.3 | 78.3 | 83.0 | 81.4 | 77.5 |
| 85° | 21.1 | 21.1 | 25.8 | 30.5 | 37.6 | 40.7 | 39.9 | 36.8 | 36.0 | 32.1 | 32.1 |
| 87.5° | 5.5 | 5.5 | 7.8 | 8.6 | 7.0 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 8.6 |
| 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)