

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: P653722

Luminaire Tested: **GLAN-SA2A-840-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P653722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2A-840-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7720.4 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

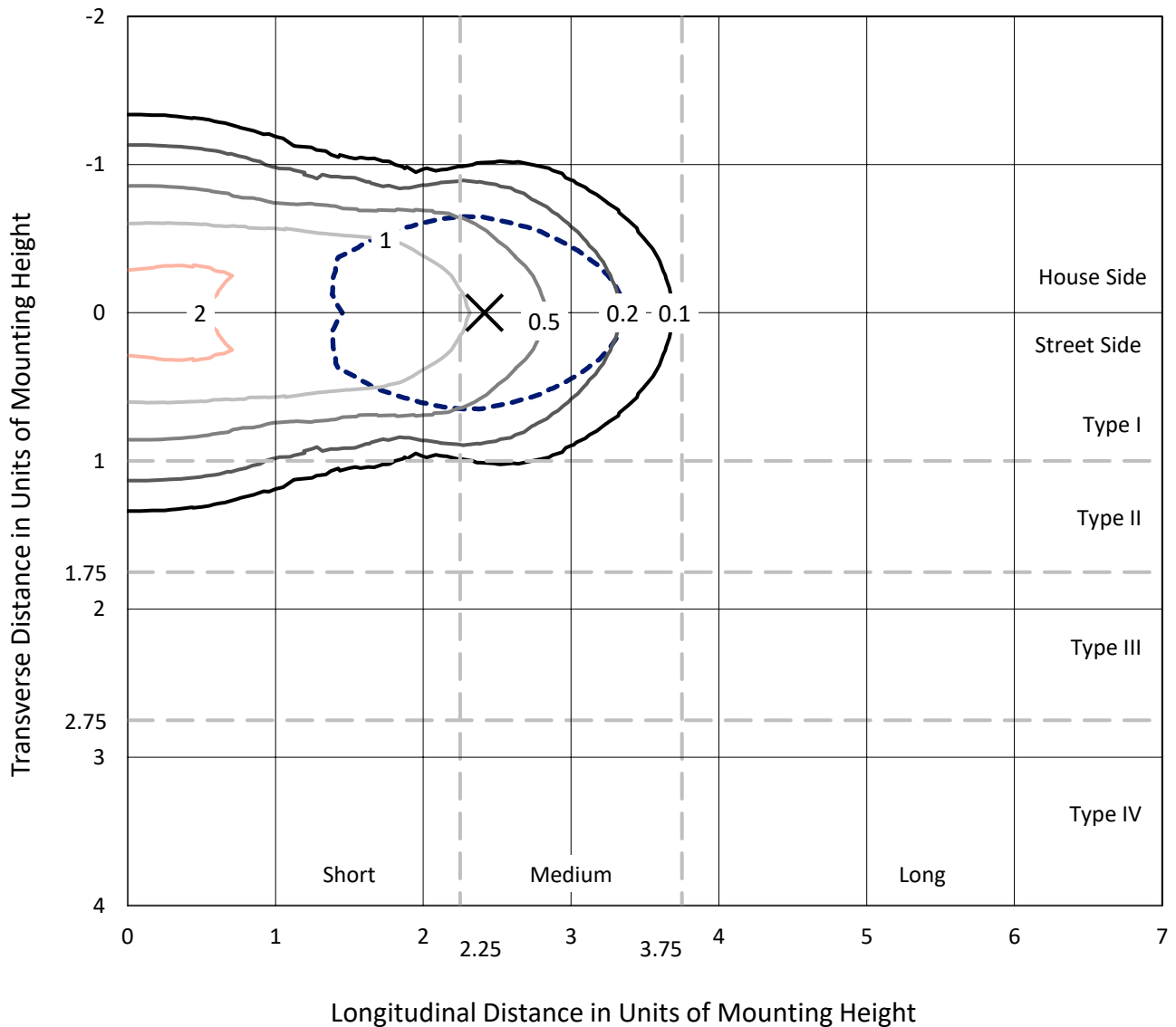
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

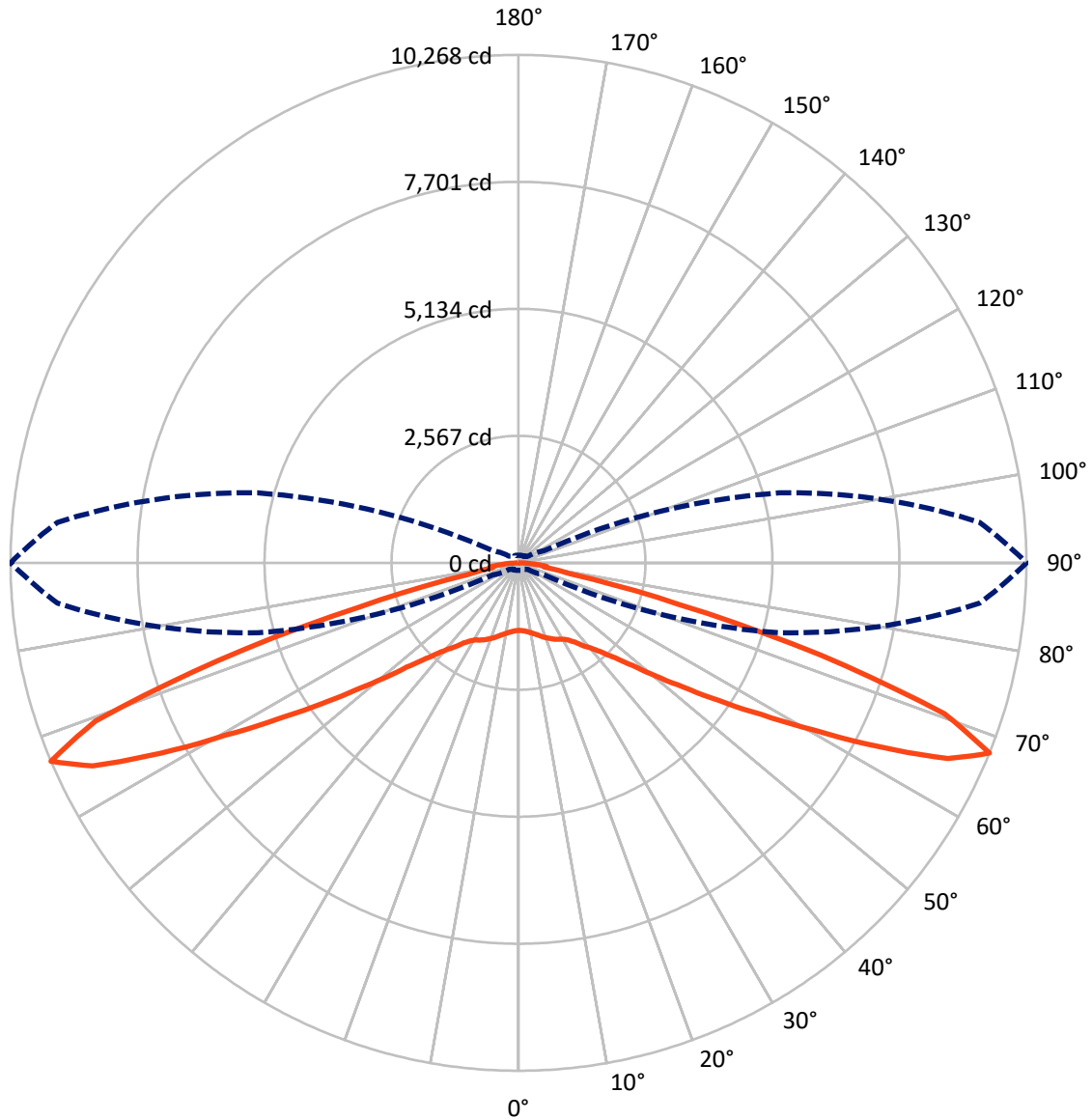
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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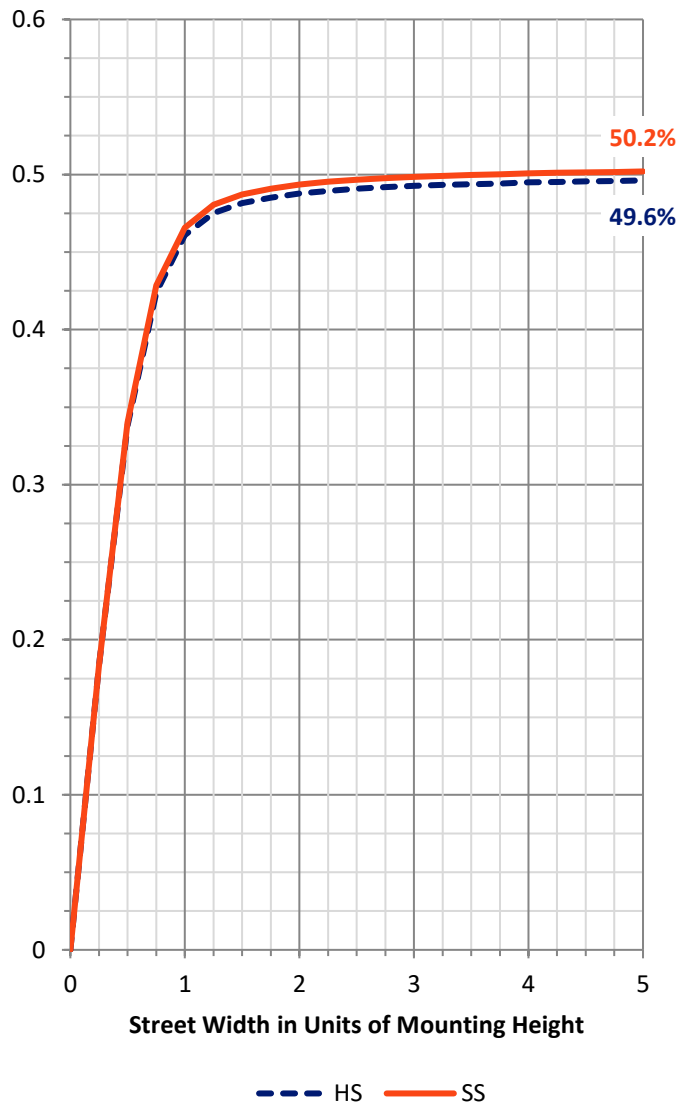
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3860.2 | 0.0 | 3860.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3860.2 | 0.0 | 3860.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 7720.4 | 0.0 | 7720.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 136.3 | 1.8 |
| 10°-20° | 436.0 | 5.6 |
| 20°-30° | 729.7 | 9.5 |
| 30°-40° | 988.6 | 12.8 |
| 40°-50° | 1252.2 | 16.2 |
| 50°-60° | 1564.3 | 20.3 |
| 60°-70° | 1838.8 | 23.8 |
| 70°-80° | 703.4 | 9.1 |
| 80°-90° | 71.3 | 0.9 |
| 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° | 7720.4 | 100.0 |
| 0°-180° | 7720.4 | 100.0 |

Coefficient of Utilization

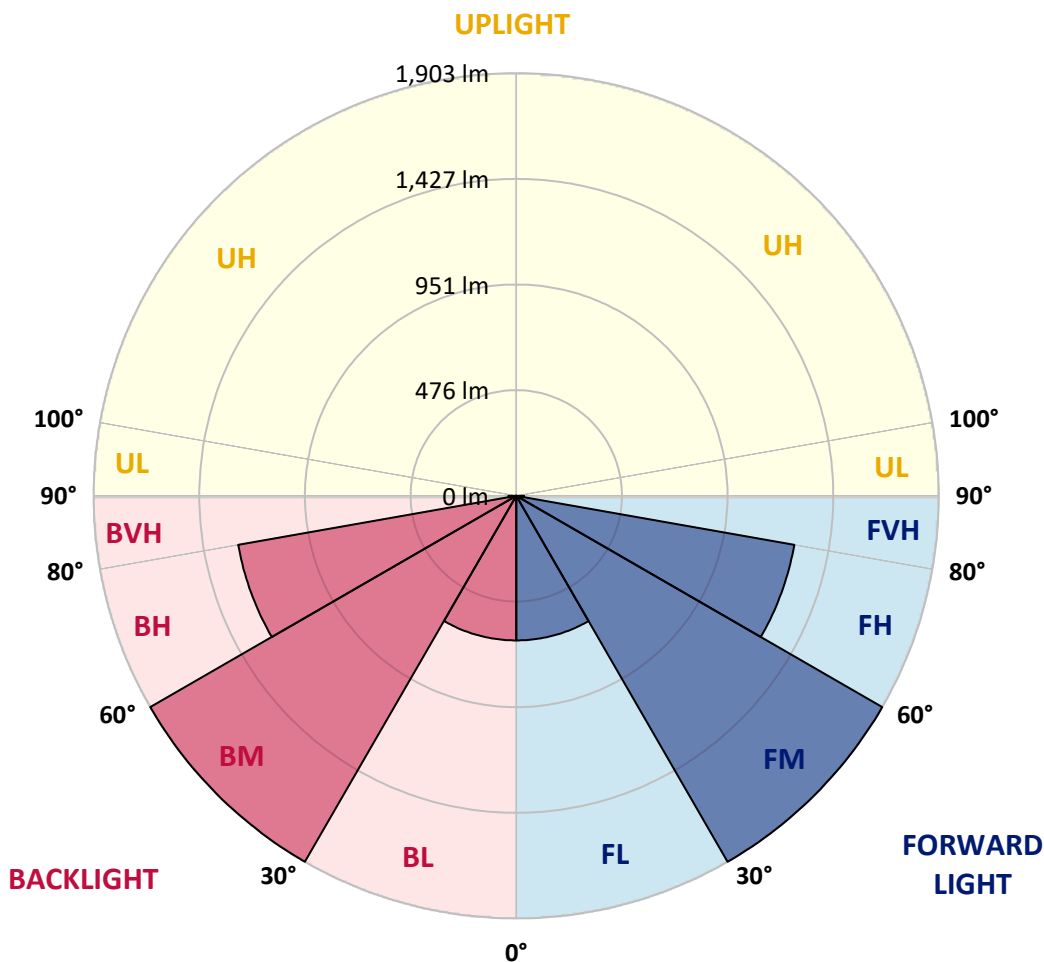


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 651.0 | 8.4 | | | |
| FM (30°-60°) | 1902.5 | 24.6 | | | |
| FH (60°-80°) | 1271.1 | 16.5 | | | G1/1800 |
| FVH (80°-90°) | 35.6 | 0.5 | | | G1/100 |
| BL (0°-30°) | 651.0 | 8.4 | B2/1000 | | |
| BM (30°-60°) | 1902.5 | 24.6 | B2/2500 | | |
| BH (60°-80°) | 1271.1 | 16.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 35.6 | 0.5 | | | 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 I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 0° | 1366.7 | 1366.7 | 1366.7 | 1366.7 | 1366.7 | 1366.7 | 1366.7 | 1366.7 | 1366.7 | 1366.7 | 1366.7 |
| 2.5° | 1384.3 | 1383.4 | 1383.9 | 1383.4 | 1384.7 | 1383.9 | 1378.7 | 1374.4 | 1371.0 | 1371.4 | 1370.2 |
| 5° | 1413.8 | 1414.2 | 1414.6 | 1412.5 | 1415.5 | 1413.8 | 1405.6 | 1398.8 | 1391.9 | 1389.4 | 1388.6 |
| 7.5° | 1438.1 | 1440.3 | 1441.6 | 1443.7 | 1448.8 | 1448.8 | 1444.6 | 1434.7 | 1419.8 | 1411.2 | 1410.8 |
| 10° | 1462.5 | 1464.2 | 1468.0 | 1474.9 | 1483.4 | 1491.6 | 1489.8 | 1476.6 | 1457.4 | 1442.8 | 1439.5 |
| 12.5° | 1471.1 | 1473.2 | 1486.0 | 1505.7 | 1524.9 | 1540.7 | 1540.7 | 1530.0 | 1505.2 | 1483.0 | 1476.6 |
| 15° | 1441.1 | 1445.0 | 1468.0 | 1509.9 | 1560.4 | 1595.0 | 1602.7 | 1587.8 | 1561.2 | 1527.1 | 1519.4 |
| 17.5° | 1381.7 | 1391.1 | 1424.9 | 1486.9 | 1570.7 | 1642.5 | 1664.8 | 1657.4 | 1623.2 | 1579.7 | 1570.7 |
| 20° | 1318.0 | 1328.3 | 1364.2 | 1446.3 | 1562.2 | 1670.3 | 1734.8 | 1736.6 | 1694.2 | 1631.0 | 1617.7 |
| 22.5° | 1247.9 | 1255.6 | 1301.8 | 1398.0 | 1536.5 | 1676.7 | 1795.1 | 1824.6 | 1767.4 | 1682.3 | 1663.4 |
| 25° | 1169.2 | 1177.8 | 1226.1 | 1330.0 | 1488.1 | 1669.4 | 1850.3 | 1915.2 | 1843.8 | 1737.0 | 1713.0 |
| 27.5° | 1094.0 | 1097.4 | 1149.1 | 1254.8 | 1424.5 | 1650.6 | 1890.9 | 1998.6 | 1928.5 | 1782.2 | 1752.0 |
| 30° | 1021.7 | 1029.9 | 1075.6 | 1179.9 | 1351.3 | 1613.9 | 1925.9 | 2093.5 | 2019.6 | 1829.8 | 1790.8 |
| 32.5° | 945.2 | 955.0 | 1004.7 | 1110.2 | 1278.2 | 1558.7 | 1947.3 | 2197.4 | 2146.5 | 1906.7 | 1865.3 |
| 35° | 871.7 | 878.1 | 928.1 | 1030.7 | 1206.8 | 1494.5 | 1951.1 | 2314.5 | 2310.2 | 2023.4 | 1968.3 |
| 37.5° | 796.4 | 805.8 | 856.3 | 954.6 | 1131.2 | 1426.6 | 1931.9 | 2438.9 | 2507.8 | 2185.4 | 2126.0 |
| 40° | 724.2 | 732.3 | 781.9 | 881.1 | 1045.3 | 1343.7 | 1886.2 | 2552.7 | 2738.2 | 2352.2 | 2267.9 |
| 42.5° | 645.6 | 647.7 | 702.0 | 802.9 | 961.0 | 1247.5 | 1820.3 | 2653.9 | 2995.1 | 2575.7 | 2471.0 |
| 45° | 556.2 | 561.8 | 612.2 | 711.4 | 864.5 | 1139.7 | 1730.9 | 2737.8 | 3320.9 | 2885.7 | 2742.9 |
| 47.5° | 466.8 | 471.5 | 517.7 | 615.6 | 758.8 | 1016.2 | 1593.4 | 2811.3 | 3655.2 | 3279.4 | 3092.2 |
| 50° | 379.6 | 382.2 | 419.8 | 506.6 | 640.0 | 886.2 | 1422.7 | 2834.8 | 4033.1 | 3836.9 | 3597.9 |
| 52.5° | 300.2 | 303.9 | 332.6 | 400.6 | 513.0 | 732.8 | 1238.5 | 2776.6 | 4474.3 | 4497.8 | 4160.9 |
| 55° | 243.2 | 244.6 | 265.9 | 316.0 | 401.0 | 572.0 | 1016.2 | 2614.7 | 4948.9 | 5344.7 | 4915.1 |
| 57.5° | 209.5 | 210.3 | 222.3 | 250.1 | 308.6 | 431.3 | 788.4 | 2308.1 | 5375.1 | 6336.9 | 5784.7 |
| 60° | 190.2 | 190.7 | 197.6 | 213.8 | 244.6 | 330.9 | 564.7 | 1875.5 | 5795.8 | 7441.3 | 6865.3 |
| 62.5° | 178.3 | 178.3 | 183.0 | 191.9 | 206.9 | 254.0 | 409.1 | 1353.1 | 6083.9 | 8561.7 | 8197.5 |
| 65° | 166.8 | 166.8 | 170.1 | 176.5 | 184.7 | 207.8 | 302.3 | 882.4 | 6076.6 | 9377.8 | 9537.3 |
| 67.5° | 153.5 | 153.5 | 156.0 | 162.5 | 167.2 | 178.7 | 233.5 | 578.0 | 5458.4 | 9359.9 | 10268.4 |
| 70° | 137.7 | 137.7 | 141.1 | 146.7 | 150.5 | 157.8 | 184.3 | 395.4 | 4010.1 | 7991.9 | 9132.0 |
| 72.5° | 121.9 | 122.3 | 124.4 | 129.9 | 133.0 | 137.3 | 153.1 | 277.0 | 2459.9 | 5441.8 | 6385.3 |
| 75° | 104.3 | 105.2 | 107.3 | 112.9 | 115.5 | 117.2 | 129.1 | 197.6 | 1244.5 | 2934.0 | 3340.5 |
| 77.5° | 84.2 | 86.0 | 87.2 | 93.2 | 94.9 | 97.5 | 106.5 | 142.8 | 546.4 | 1054.3 | 1063.6 |
| 80° | 61.6 | 63.7 | 67.5 | 73.1 | 74.4 | 76.1 | 81.2 | 101.3 | 247.5 | 481.4 | 522.8 |
| 82.5° | 45.3 | 48.3 | 43.6 | 50.9 | 50.9 | 48.8 | 57.3 | 68.0 | 113.7 | 476.7 | 570.3 |
| 85° | 24.8 | 25.2 | 22.6 | 26.1 | 27.8 | 27.3 | 30.4 | 33.4 | 55.2 | 318.1 | 327.9 |
| 87.5° | 6.0 | 6.4 | 6.8 | 8.2 | 9.8 | 9.8 | 10.7 | 9.4 | 18.0 | 103.0 | 59.0 |
| 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)