

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: P382850

Luminaire Tested: **GAN-SA2B-735-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11442.2 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

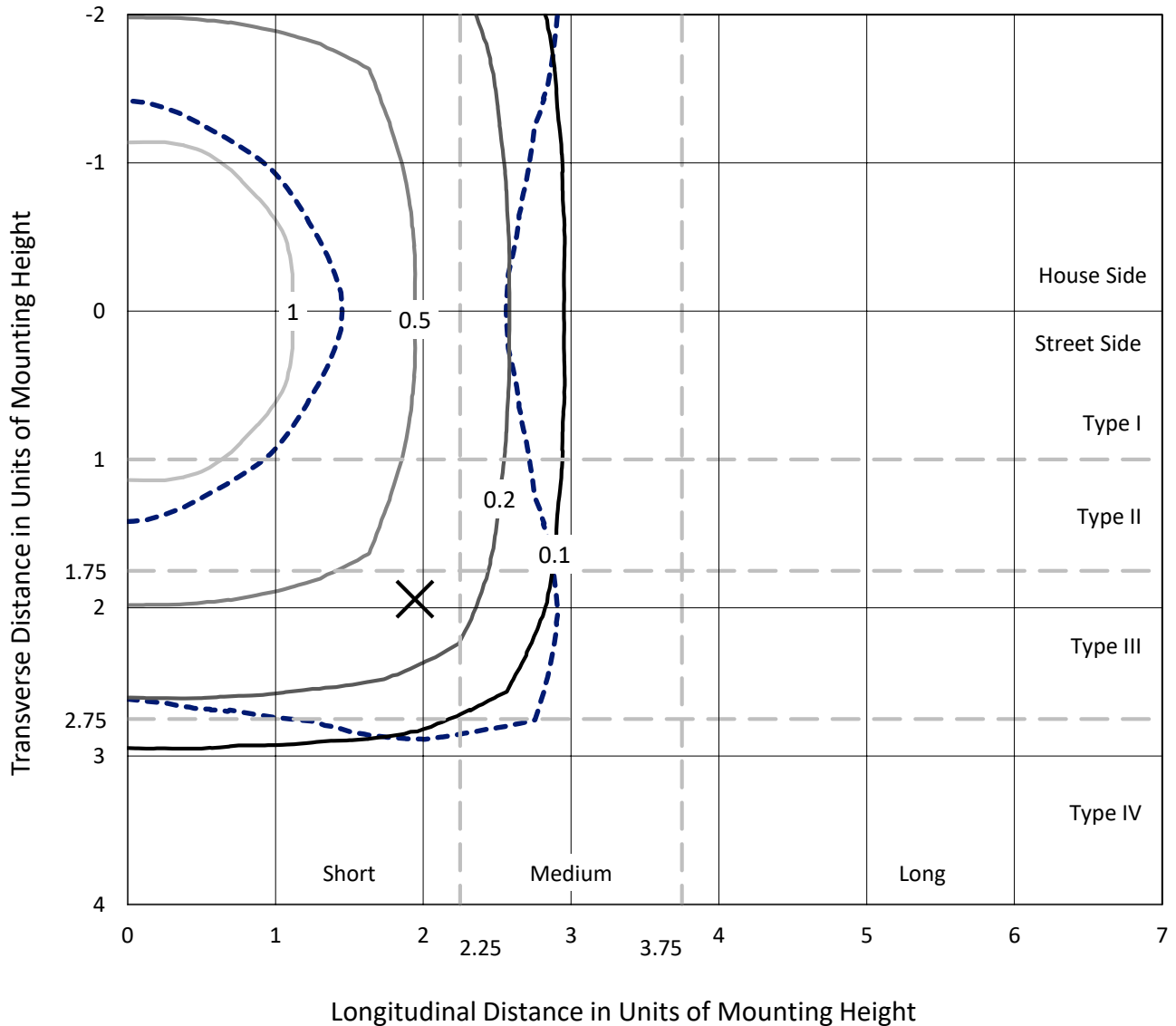
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

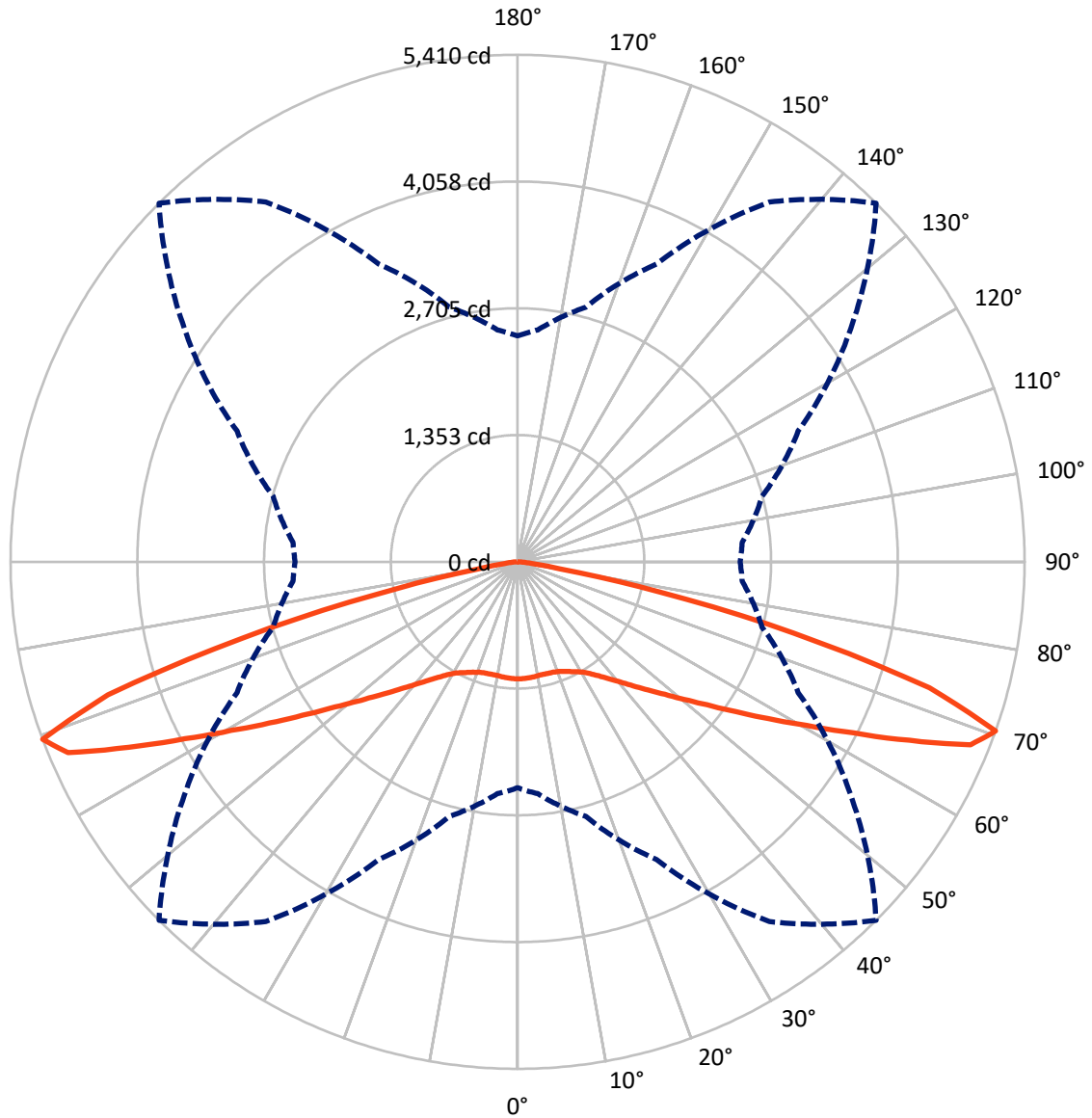
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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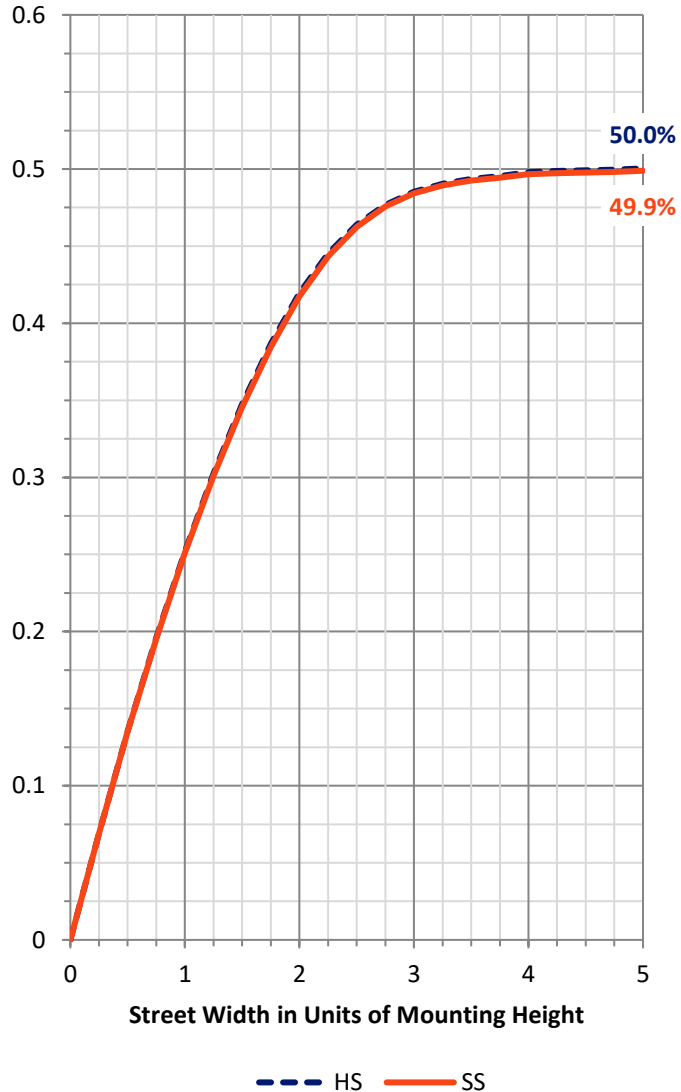
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5721.1 | 0.0 | 5721.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5721.1 | 0.0 | 5721.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 11442.2 | 0.0 | 11442.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 118.4 | 1.0 |
| 10°-20° | 347.5 | 3.0 |
| 20°-30° | 591.5 | 5.2 |
| 30°-40° | 938.1 | 8.2 |
| 40°-50° | 1526.6 | 13.3 |
| 50°-60° | 2517.1 | 22.0 |
| 60°-70° | 3695.1 | 32.3 |
| 70°-80° | 1634.0 | 14.3 |
| 80°-90° | 74.0 | 0.6 |
| 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° | 11442.2 | 100.0 |
| 0°-180° | 11442.2 | 100.0 |

Coefficient of Utilization



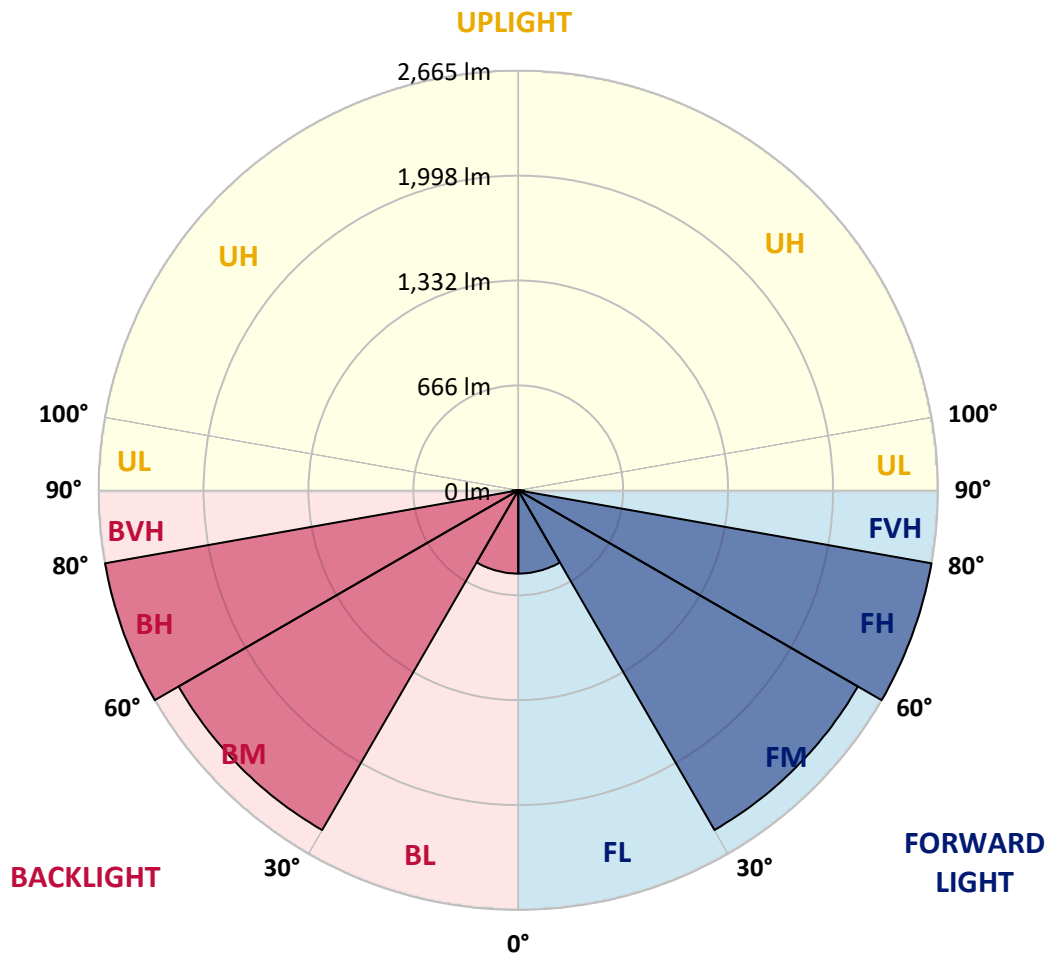
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 528.7 | 4.6 | | | |
| FM (30°-60°) | 2490.9 | 21.8 | | | |
| FH (60°-80°) | 2664.6 | 23.3 | | | G2/5000 |
| FVH (80°-90°) | 37.0 | 0.3 | | | G1/100 |
| BL (0°-30°) | 528.7 | 4.6 | B2/1000 | | |
| BM (30°-60°) | 2490.9 | 21.8 | B2/2500 | | |
| BH (60°-80°) | 2664.6 | 23.3 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 37.0 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1249.7 | 1249.7 | 1249.7 | 1249.7 | 1249.7 | 1249.7 | 1249.7 | 1249.7 | 1249.7 | 1249.7 | 1249.7 |
| 2.5° | 1247.8 | 1246.6 | 1249.3 | 1248.9 | 1246.6 | 1247.0 | 1247.0 | 1248.2 | 1248.2 | 1247.4 | 1247.4 |
| 5° | 1243.2 | 1242.5 | 1245.5 | 1245.5 | 1243.2 | 1244.0 | 1244.7 | 1245.9 | 1245.5 | 1244.7 | 1244.4 |
| 7.5° | 1237.6 | 1237.2 | 1240.2 | 1240.2 | 1238.7 | 1239.4 | 1238.7 | 1239.1 | 1238.3 | 1237.6 | 1236.4 |
| 10° | 1228.1 | 1228.8 | 1231.5 | 1232.3 | 1232.3 | 1232.6 | 1231.9 | 1230.0 | 1228.8 | 1227.7 | 1226.6 |
| 12.5° | 1219.4 | 1219.0 | 1222.7 | 1224.7 | 1227.7 | 1231.1 | 1228.8 | 1223.5 | 1221.3 | 1219.0 | 1218.3 |
| 15° | 1213.7 | 1214.1 | 1217.8 | 1221.3 | 1226.6 | 1233.7 | 1231.1 | 1222.7 | 1218.3 | 1215.6 | 1214.8 |
| 17.5° | 1212.6 | 1213.3 | 1218.3 | 1224.3 | 1230.0 | 1237.9 | 1236.4 | 1228.1 | 1220.5 | 1215.6 | 1214.5 |
| 20° | 1215.2 | 1215.6 | 1223.1 | 1231.9 | 1241.8 | 1249.3 | 1245.9 | 1236.8 | 1226.6 | 1219.0 | 1217.1 |
| 22.5° | 1220.1 | 1221.6 | 1231.1 | 1244.7 | 1259.9 | 1270.1 | 1266.0 | 1250.4 | 1234.5 | 1225.1 | 1222.4 |
| 25° | 1235.7 | 1236.1 | 1248.9 | 1267.5 | 1285.6 | 1297.4 | 1292.4 | 1270.5 | 1250.0 | 1239.4 | 1236.1 |
| 27.5° | 1267.8 | 1269.0 | 1281.8 | 1303.4 | 1319.0 | 1326.5 | 1323.5 | 1305.8 | 1288.3 | 1277.0 | 1278.1 |
| 30° | 1314.4 | 1315.9 | 1330.3 | 1354.2 | 1363.7 | 1365.6 | 1364.8 | 1356.4 | 1340.6 | 1325.4 | 1326.5 |
| 32.5° | 1371.2 | 1372.0 | 1391.3 | 1412.9 | 1420.4 | 1422.0 | 1420.4 | 1412.9 | 1394.0 | 1373.5 | 1374.6 |
| 35° | 1444.3 | 1446.6 | 1465.1 | 1486.0 | 1492.1 | 1495.0 | 1492.4 | 1482.6 | 1462.9 | 1442.8 | 1442.0 |
| 37.5° | 1534.4 | 1534.8 | 1554.1 | 1575.7 | 1583.3 | 1584.0 | 1581.0 | 1574.6 | 1550.0 | 1531.7 | 1530.6 |
| 40° | 1639.0 | 1640.5 | 1663.2 | 1686.3 | 1689.4 | 1685.9 | 1690.1 | 1686.3 | 1660.9 | 1640.1 | 1643.5 |
| 42.5° | 1766.2 | 1769.6 | 1796.9 | 1819.6 | 1810.8 | 1809.0 | 1811.7 | 1812.8 | 1792.3 | 1767.0 | 1764.7 |
| 45° | 1914.2 | 1917.3 | 1951.4 | 1969.6 | 1963.9 | 1951.4 | 1956.7 | 1965.8 | 1937.3 | 1905.9 | 1908.9 |
| 47.5° | 2083.1 | 2090.8 | 2127.1 | 2144.1 | 2130.1 | 2113.0 | 2123.3 | 2137.0 | 2103.6 | 2064.6 | 2062.7 |
| 50° | 2271.0 | 2280.4 | 2329.0 | 2352.8 | 2338.7 | 2307.4 | 2324.4 | 2333.4 | 2285.4 | 2235.0 | 2230.9 |
| 52.5° | 2471.3 | 2480.8 | 2541.7 | 2591.0 | 2581.9 | 2533.1 | 2556.9 | 2547.4 | 2492.2 | 2424.4 | 2419.0 |
| 55° | 2698.1 | 2702.0 | 2767.8 | 2847.4 | 2856.4 | 2820.4 | 2819.0 | 2803.4 | 2721.6 | 2643.3 | 2639.4 |
| 57.5° | 2931.4 | 2934.1 | 3019.2 | 3113.1 | 3156.0 | 3156.0 | 3113.6 | 3080.6 | 2971.9 | 2881.1 | 2871.6 |
| 60° | 3183.3 | 3192.7 | 3287.0 | 3414.6 | 3514.6 | 3544.2 | 3469.2 | 3379.4 | 3261.3 | 3150.3 | 3139.3 |
| 62.5° | 3407.4 | 3418.4 | 3562.7 | 3752.7 | 3913.3 | 4020.9 | 3837.6 | 3691.4 | 3476.3 | 3298.3 | 3277.6 |
| 65° | 3435.8 | 3465.4 | 3675.5 | 4019.7 | 4379.1 | 4593.8 | 4242.5 | 3882.3 | 3490.3 | 3243.1 | 3221.9 |
| 67.5° | 3137.8 | 3187.8 | 3471.8 | 4007.6 | 4750.2 | 5211.1 | 4501.1 | 3773.2 | 3238.9 | 2965.5 | 2942.0 |
| 70° | 2411.1 | 2483.8 | 2811.4 | 3505.5 | 4686.2 | 5410.0 | 4339.0 | 3303.3 | 2700.4 | 2406.2 | 2373.2 |
| 72.5° | 1322.8 | 1352.7 | 1647.3 | 2400.5 | 3756.9 | 4597.3 | 3619.2 | 2442.5 | 1790.8 | 1457.2 | 1401.9 |
| 75° | 419.6 | 430.2 | 580.2 | 982.3 | 2125.2 | 3045.0 | 2299.0 | 1198.9 | 660.1 | 486.6 | 481.0 |
| 77.5° | 186.3 | 187.4 | 209.8 | 286.6 | 732.0 | 1542.7 | 879.3 | 326.4 | 225.0 | 196.6 | 203.0 |
| 80° | 117.7 | 117.7 | 129.9 | 142.0 | 199.2 | 448.0 | 237.8 | 155.3 | 132.6 | 123.1 | 125.8 |
| 82.5° | 56.5 | 62.5 | 84.5 | 90.9 | 109.5 | 150.7 | 121.9 | 101.4 | 88.6 | 65.9 | 61.4 |
| 85° | 37.1 | 31.0 | 53.4 | 60.2 | 63.6 | 72.3 | 70.8 | 67.1 | 57.9 | 33.0 | 36.7 |
| 87.5° | 16.7 | 15.9 | 27.7 | 25.3 | 23.8 | 18.2 | 27.3 | 33.7 | 32.6 | 16.3 | 16.3 |
| 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)