

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: McGRAW-EDISON

Report Number: P526380

Luminaire Tested: **GALN-SA1B-750-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526380
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: McGRAW-EDISON
Catalog Number: GALN-SA1B-750-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS
WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4885 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

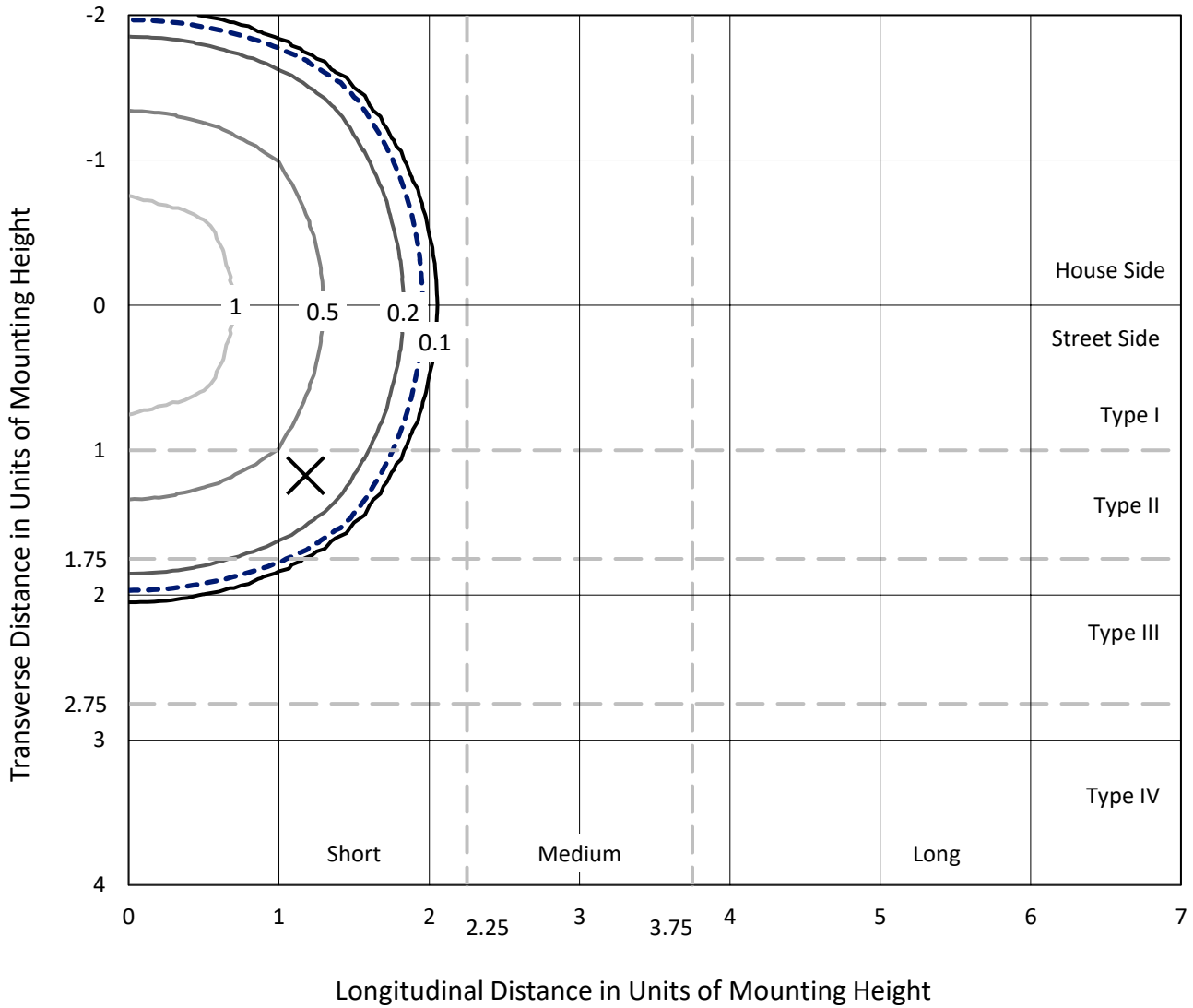
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

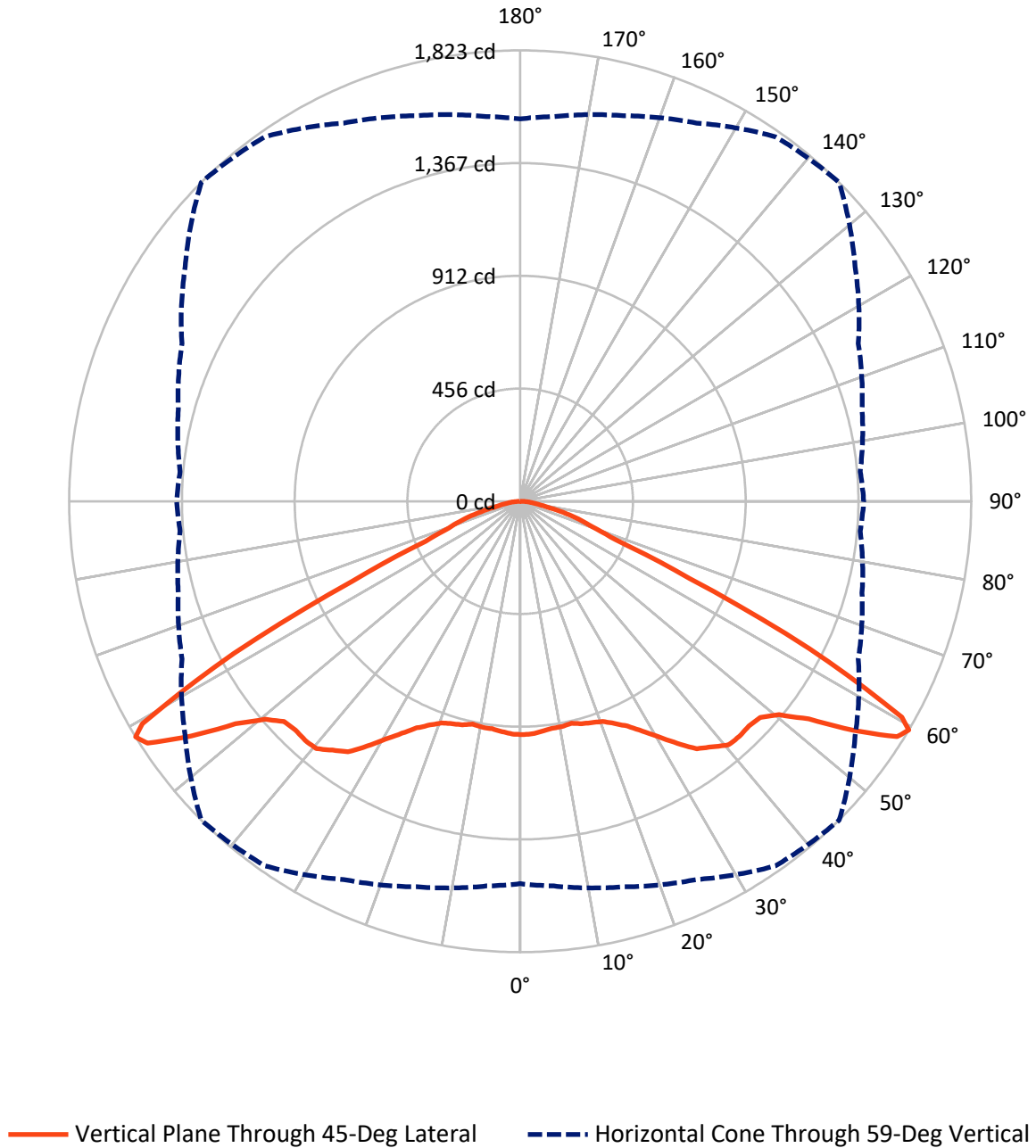
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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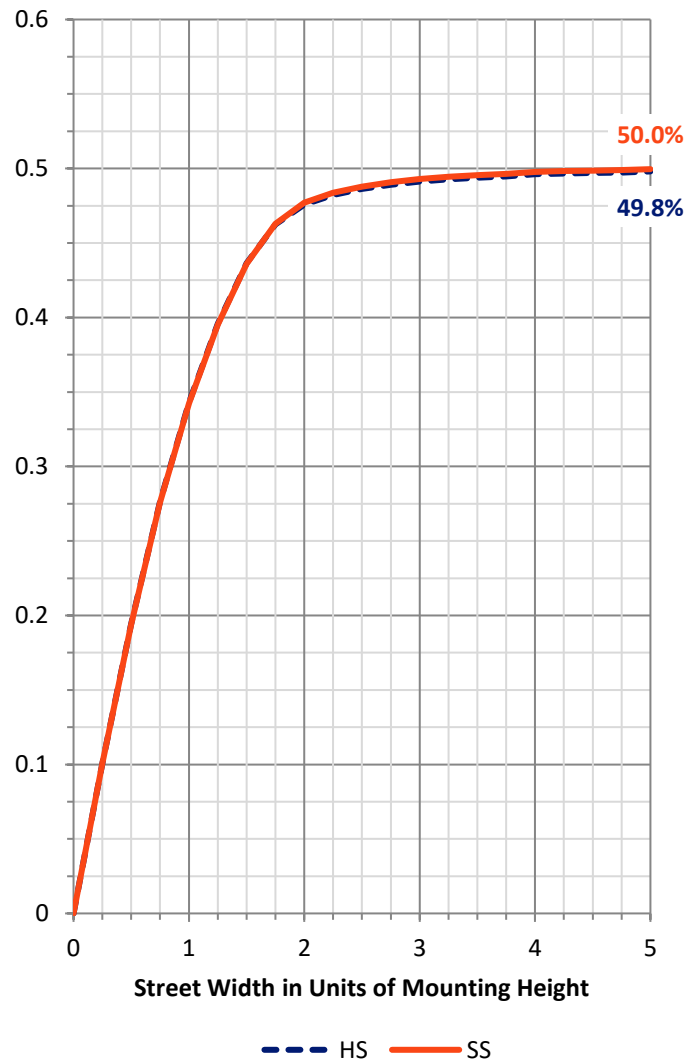
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2442.5 | 0.0 | 2442.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2442.5 | 0.0 | 2442.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 4885.0 | 0.0 | 4885.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 88.9 | 1.8 |
| 10°-20° | 264.5 | 5.4 |
| 20°-30° | 461.9 | 9.5 |
| 30°-40° | 737.7 | 15.1 |
| 40°-50° | 1004.9 | 20.6 |
| 50°-60° | 1358.8 | 27.8 |
| 60°-70° | 745.2 | 15.3 |
| 70°-80° | 190.6 | 3.9 |
| 80°-90° | 32.5 | 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° | 4885.0 | 100.0 |
| 0°-180° | 4885.0 | 100.0 |



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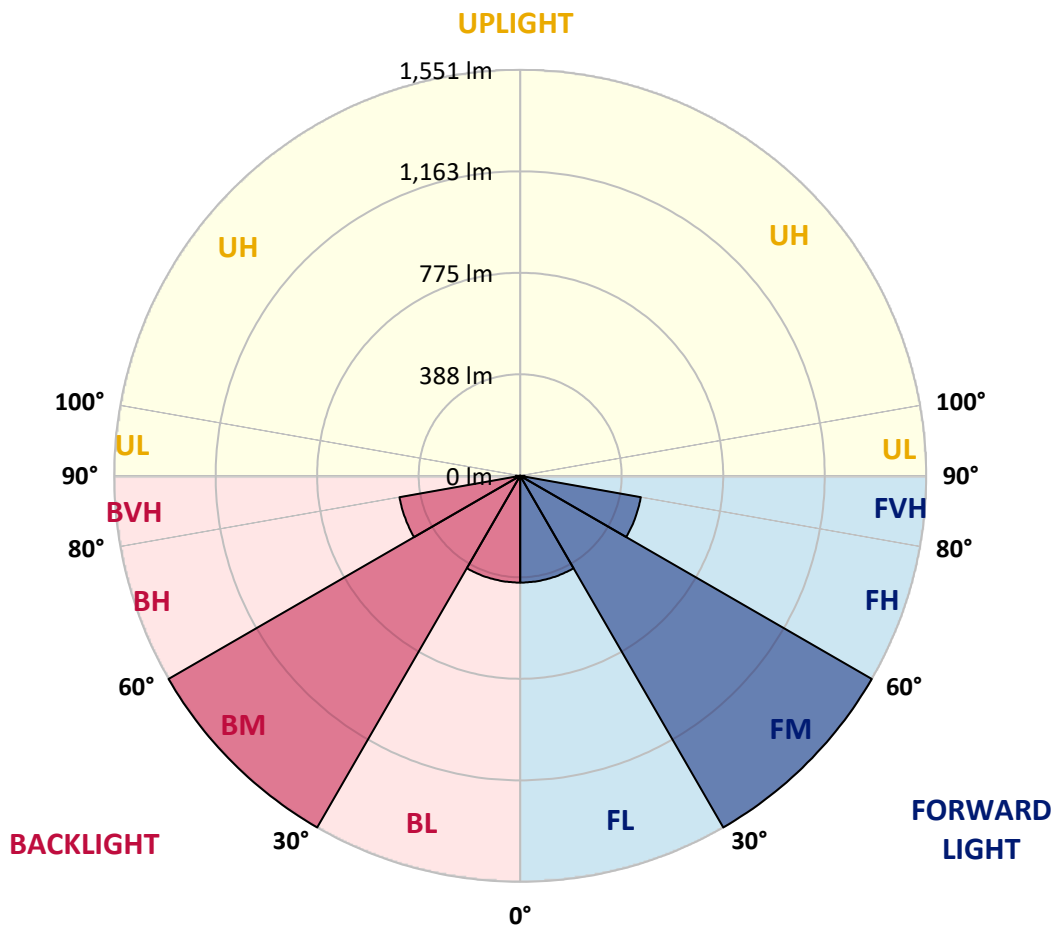
CATALOG NUMBER: GALN-SA1B-750-U-5WQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 407.7 | 8.3 | | | |
| FM (30°-60°) | 1550.7 | 31.7 | | | |
| FH (60°-80°) | 467.9 | 9.6 | | | G0/660 |
| FVH (80°-90°) | 16.3 | 0.3 | | | G1/100 |
| BL (0°-30°) | 407.7 | 8.3 | B1/500 | | |
| BM (30°-60°) | 1550.7 | 31.7 | B2/2500 | | |
| BH (60°-80°) | 467.9 | 9.6 | B1/500 | | G0/660 |
| BVH (80°-90°) | 16.3 | 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° | 943.5 | 943.5 | 943.5 | 943.5 | 943.5 | 943.5 | 943.5 | 943.5 | 943.5 | 943.5 | 943.5 |
| 2.5° | 937.9 | 944.8 | 939.8 | 944.2 | 943.5 | 941.7 | 938.5 | 936.7 | 934.2 | 937.9 | 931.7 |
| 5° | 934.2 | 939.8 | 945.4 | 937.9 | 937.9 | 934.2 | 932.3 | 928.5 | 928.5 | 927.9 | 927.3 |
| 7.5° | 940.4 | 934.8 | 932.3 | 933.5 | 934.8 | 926.6 | 932.3 | 924.8 | 918.5 | 922.9 | 927.9 |
| 10° | 934.8 | 937.3 | 927.9 | 932.3 | 925.4 | 926.6 | 922.9 | 927.9 | 921.0 | 921.0 | 921.0 |
| 12.5° | 940.4 | 933.5 | 936.7 | 933.5 | 931.7 | 921.0 | 926.0 | 920.4 | 919.8 | 926.0 | 920.4 |
| 15° | 951.7 | 940.4 | 937.9 | 931.7 | 933.5 | 933.5 | 928.5 | 929.1 | 922.3 | 926.0 | 927.3 |
| 17.5° | 947.9 | 941.7 | 939.8 | 932.3 | 938.5 | 940.4 | 931.0 | 924.8 | 929.1 | 928.5 | 927.9 |
| 20° | 951.1 | 953.6 | 951.7 | 952.9 | 955.4 | 950.4 | 941.7 | 932.9 | 927.3 | 935.4 | 934.8 |
| 22.5° | 971.1 | 968.6 | 967.3 | 966.1 | 970.5 | 975.5 | 963.6 | 949.8 | 949.8 | 955.4 | 957.9 |
| 25° | 987.4 | 986.8 | 986.1 | 991.8 | 1006.8 | 1006.8 | 991.8 | 974.2 | 969.8 | 973.6 | 970.5 |
| 27.5° | 1011.2 | 1018.1 | 1015.6 | 1025.6 | 1047.5 | 1052.5 | 1032.5 | 1011.8 | 999.9 | 995.5 | 1001.2 |
| 30° | 1065.6 | 1057.5 | 1059.4 | 1070.0 | 1089.4 | 1105.7 | 1075.0 | 1053.1 | 1036.8 | 1036.2 | 1038.7 |
| 32.5° | 1102.0 | 1108.2 | 1113.9 | 1123.9 | 1154.5 | 1167.1 | 1130.1 | 1094.4 | 1084.4 | 1078.8 | 1080.7 |
| 35° | 1174.6 | 1168.9 | 1167.7 | 1177.7 | 1208.4 | 1229.1 | 1182.7 | 1151.4 | 1138.3 | 1150.8 | 1150.8 |
| 37.5° | 1243.5 | 1227.8 | 1215.9 | 1229.1 | 1257.2 | 1259.7 | 1220.3 | 1203.4 | 1196.5 | 1210.9 | 1210.3 |
| 40° | 1276.0 | 1274.8 | 1247.2 | 1254.7 | 1292.3 | 1296.0 | 1259.1 | 1239.1 | 1237.8 | 1256.6 | 1275.4 |
| 42.5° | 1309.8 | 1297.9 | 1270.4 | 1275.4 | 1298.6 | 1299.8 | 1264.7 | 1259.1 | 1272.9 | 1291.0 | 1292.3 |
| 45° | 1315.5 | 1305.4 | 1287.9 | 1275.4 | 1292.3 | 1296.0 | 1275.4 | 1279.1 | 1280.4 | 1302.3 | 1302.3 |
| 47.5° | 1326.7 | 1325.5 | 1315.5 | 1306.1 | 1309.2 | 1306.1 | 1292.9 | 1298.6 | 1317.3 | 1328.0 | 1323.0 |
| 50° | 1358.0 | 1344.9 | 1354.9 | 1346.8 | 1347.4 | 1356.2 | 1344.3 | 1349.9 | 1346.1 | 1336.7 | 1330.5 |
| 52.5° | 1426.9 | 1420.6 | 1429.4 | 1435.0 | 1441.3 | 1461.3 | 1447.6 | 1417.5 | 1389.3 | 1364.3 | 1363.7 |
| 55° | 1527.7 | 1532.1 | 1549.0 | 1577.8 | 1602.2 | 1634.1 | 1567.8 | 1495.8 | 1450.7 | 1411.3 | 1413.8 |
| 57.5° | 1622.9 | 1619.7 | 1642.9 | 1708.7 | 1780.0 | 1796.3 | 1666.1 | 1563.4 | 1490.1 | 1465.1 | 1454.5 |
| 59° | 1546.5 | 1561.5 | 1614.1 | 1687.4 | 1799.4 | 1823.2 | 1652.9 | 1508.3 | 1430.7 | 1379.9 | 1388.7 |
| 60° | 1426.3 | 1431.9 | 1478.9 | 1580.9 | 1732.4 | 1773.1 | 1564.6 | 1423.1 | 1319.8 | 1290.4 | 1303.6 |
| 62.5° | 1008.0 | 1003.7 | 1037.5 | 1120.7 | 1256.6 | 1311.7 | 1163.3 | 1063.8 | 998.6 | 966.1 | 973.6 |
| 65° | 536.0 | 556.0 | 569.8 | 621.7 | 693.7 | 752.0 | 690.6 | 647.4 | 611.1 | 584.2 | 583.5 |
| 67.5° | 361.9 | 359.4 | 362.5 | 374.4 | 398.8 | 415.1 | 413.9 | 391.9 | 388.8 | 383.8 | 389.4 |
| 70° | 304.9 | 303.7 | 298.0 | 298.0 | 303.0 | 306.8 | 311.2 | 313.7 | 318.7 | 325.0 | 324.3 |
| 72.5° | 247.3 | 244.2 | 240.4 | 238.5 | 244.8 | 246.7 | 252.3 | 254.8 | 259.2 | 258.6 | 264.2 |
| 75° | 163.4 | 163.4 | 167.8 | 172.8 | 174.7 | 178.4 | 179.1 | 186.6 | 186.6 | 187.8 | 182.8 |
| 77.5° | 91.4 | 88.9 | 92.0 | 97.0 | 101.4 | 108.3 | 115.2 | 120.8 | 124.0 | 122.7 | 122.7 |
| 80° | 53.2 | 53.2 | 56.3 | 62.0 | 67.6 | 73.9 | 78.9 | 83.3 | 86.4 | 85.2 | 82.6 |
| 82.5° | 33.2 | 33.2 | 36.3 | 41.9 | 46.3 | 50.1 | 57.0 | 62.6 | 66.4 | 65.1 | 62.0 |
| 85° | 16.9 | 16.9 | 20.7 | 24.4 | 30.1 | 32.6 | 31.9 | 29.4 | 28.8 | 25.7 | 25.7 |
| 87.5° | 4.4 | 4.4 | 6.3 | 6.9 | 5.6 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.9 |
| 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)