

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: P651165

Luminaire Tested: **GALN-SA1D-840-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651165
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-SA1D-840-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1200mA 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: 5584.3 lumens
Efficiency: N/A
Efficacy: 85.9 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

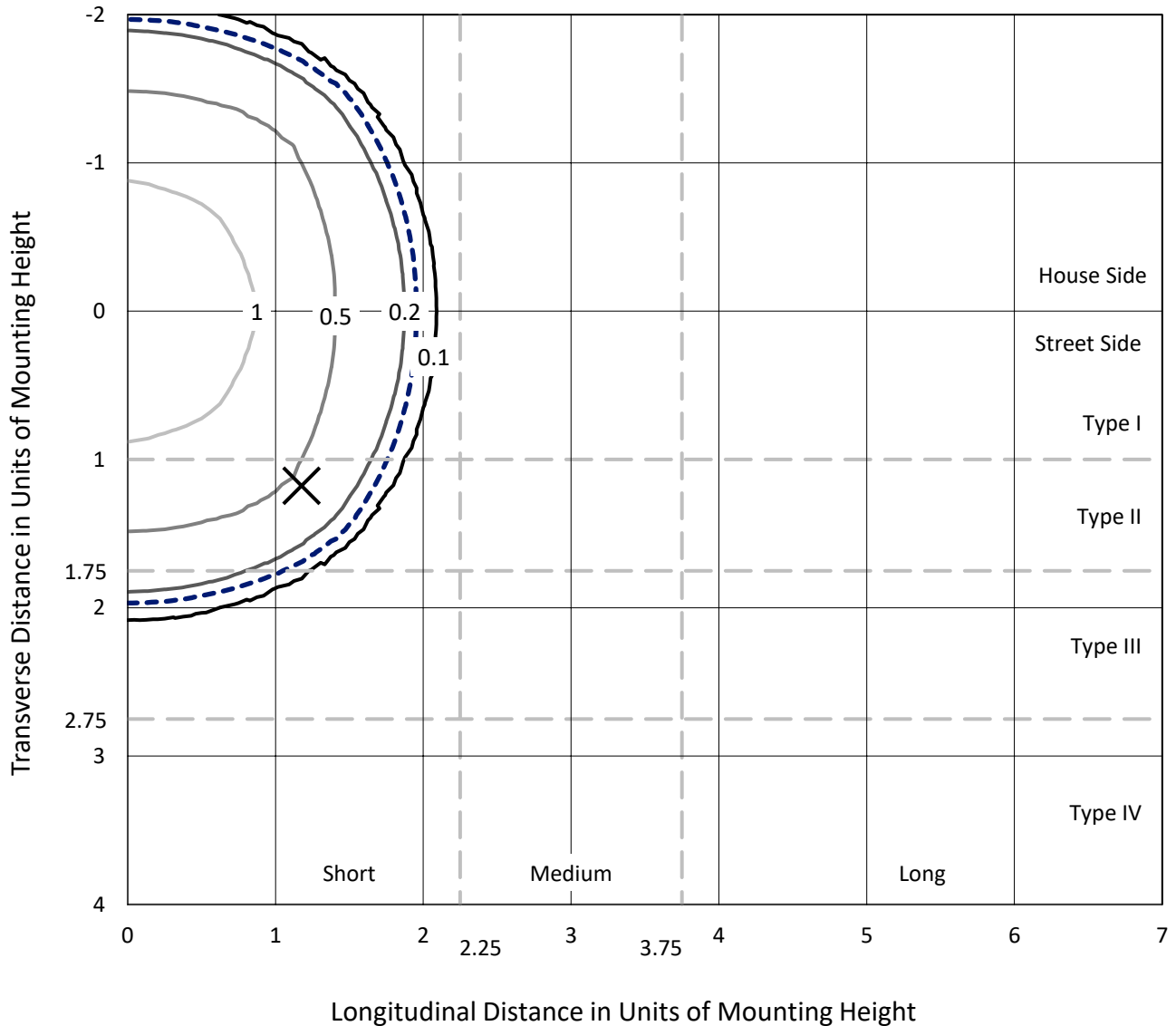
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

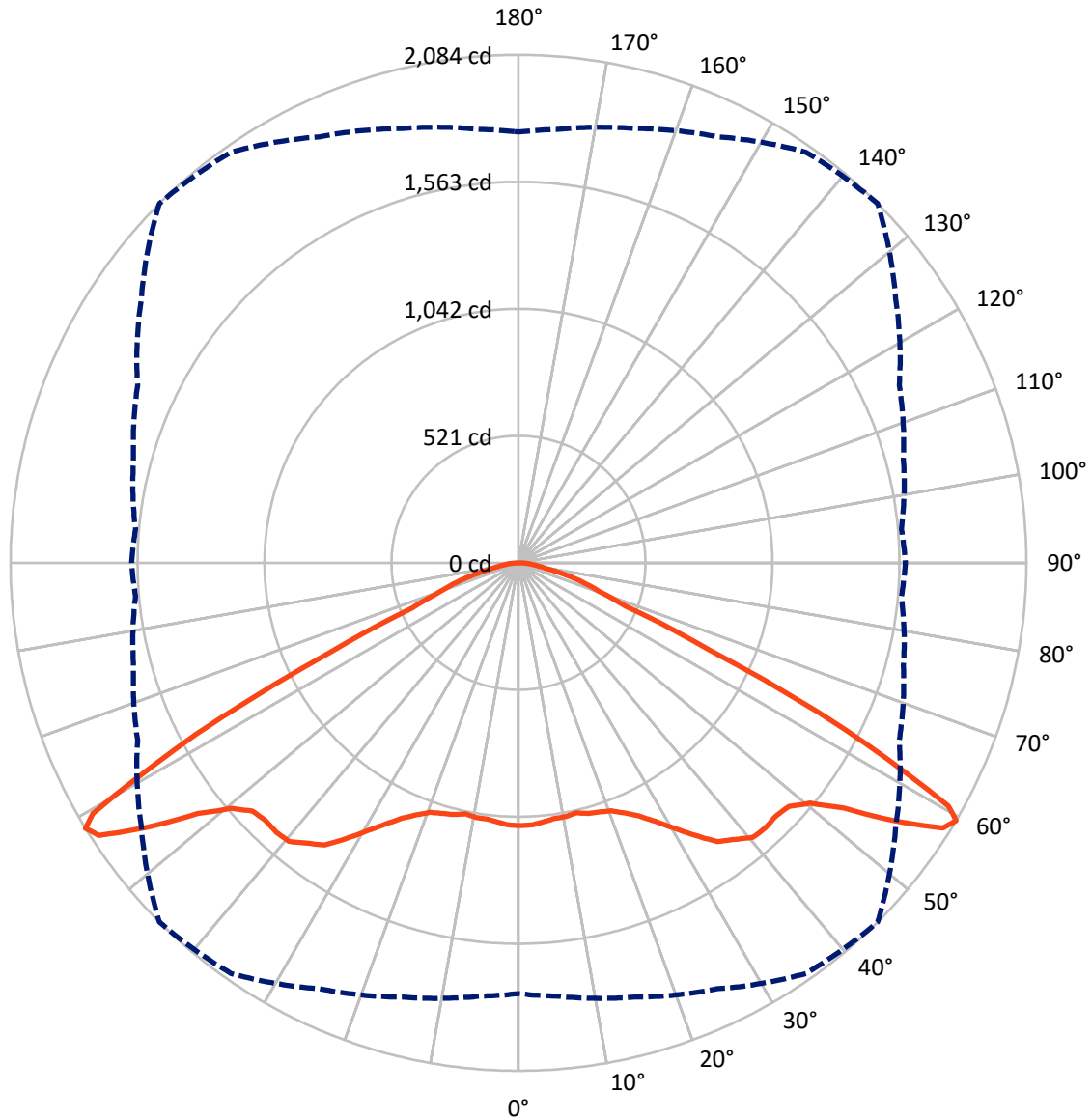
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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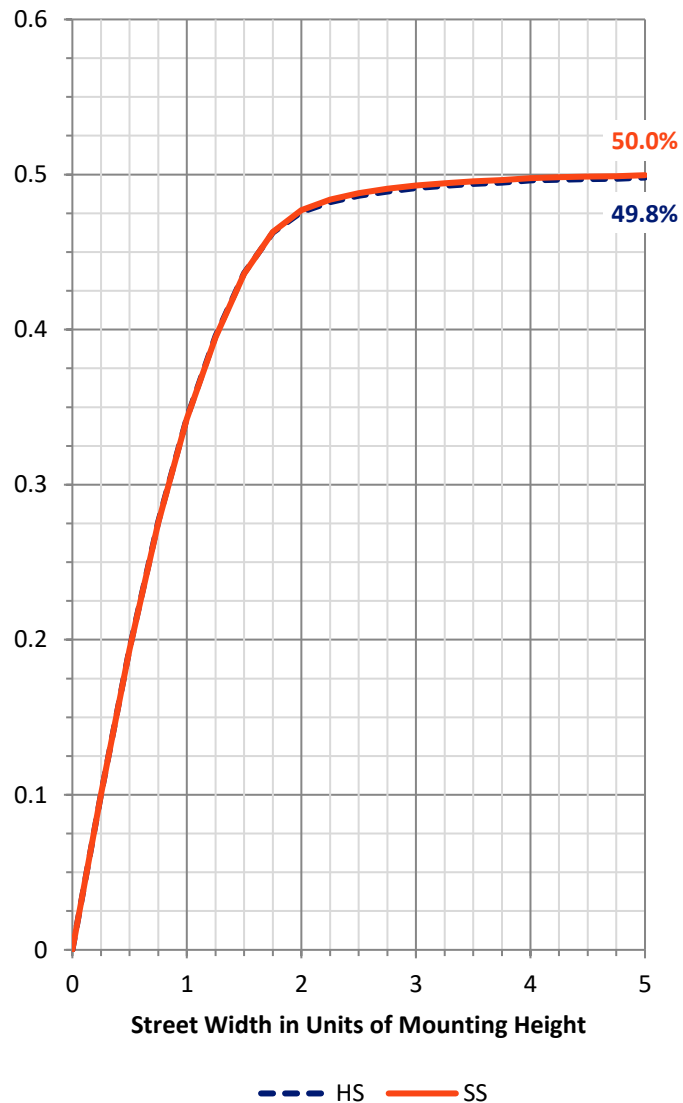
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2792.1 | 0.0 | 2792.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2792.1 | 0.0 | 2792.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 5584.3 | 0.0 | 5584.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 101.7 | 1.8 |
| 10°-20° | 302.4 | 5.4 |
| 20°-30° | 528.0 | 9.5 |
| 30°-40° | 843.3 | 15.1 |
| 40°-50° | 1148.7 | 20.6 |
| 50°-60° | 1553.3 | 27.8 |
| 60°-70° | 851.8 | 15.3 |
| 70°-80° | 217.9 | 3.9 |
| 80°-90° | 37.2 | 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° | 5584.3 | 100.0 |
| 0°-180° | 5584.3 | 100.0 |

Coefficient of Utilization



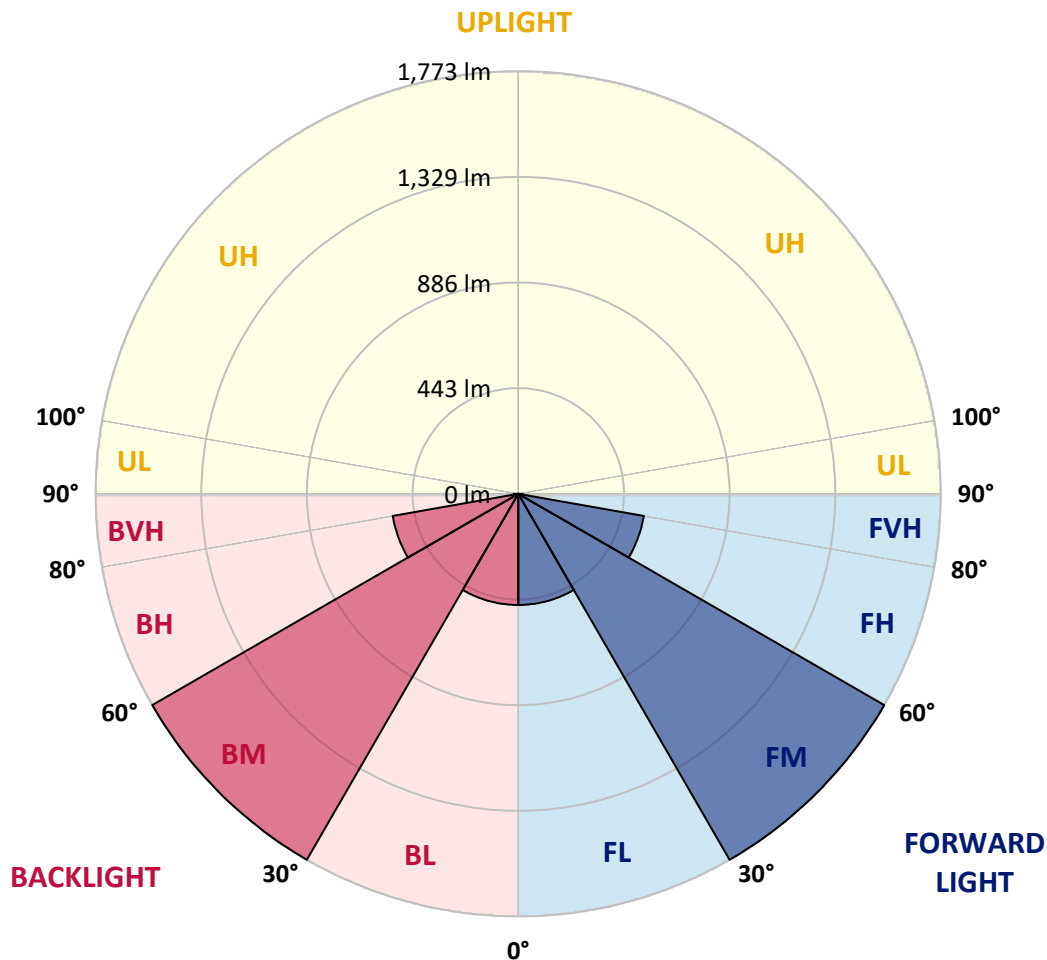
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 466.0 | 8.3 | | | |
| FM (30°-60°) | 1772.6 | 31.7 | | | |
| FH (60°-80°) | 534.9 | 9.6 | | | G0/660 |
| FVH (80°-90°) | 18.6 | 0.3 | | | G1/100 |
| BL (0°-30°) | 466.0 | 8.3 | B1/500 | | |
| BM (30°-60°) | 1772.6 | 31.7 | B2/2500 | | |
| BH (60°-80°) | 534.9 | 9.6 | B2/1000 | | G0/660 |
| BVH (80°-90°) | 18.6 | 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° | 1078.6 | 1078.6 | 1078.6 | 1078.6 | 1078.6 | 1078.6 | 1078.6 | 1078.6 | 1078.6 | 1078.6 | 1078.6 |
| 2.5° | 1072.2 | 1080.0 | 1074.3 | 1079.3 | 1078.6 | 1076.5 | 1072.9 | 1070.8 | 1067.9 | 1072.2 | 1065.0 |
| 5° | 1067.9 | 1074.3 | 1080.8 | 1072.2 | 1072.2 | 1067.9 | 1065.7 | 1061.4 | 1061.4 | 1060.8 | 1060.0 |
| 7.5° | 1075.1 | 1068.6 | 1065.7 | 1067.1 | 1068.6 | 1059.3 | 1065.7 | 1057.1 | 1050.0 | 1055.0 | 1060.8 |
| 10° | 1068.6 | 1071.4 | 1060.8 | 1065.7 | 1057.9 | 1059.3 | 1055.0 | 1060.8 | 1052.8 | 1052.8 | 1052.8 |
| 12.5° | 1075.1 | 1067.1 | 1070.8 | 1067.1 | 1065.0 | 1052.8 | 1058.6 | 1052.1 | 1051.4 | 1058.6 | 1052.1 |
| 15° | 1087.9 | 1075.1 | 1072.2 | 1065.0 | 1067.1 | 1067.1 | 1061.4 | 1062.2 | 1054.3 | 1058.6 | 1060.0 |
| 17.5° | 1083.6 | 1076.5 | 1074.3 | 1065.7 | 1072.9 | 1075.1 | 1064.3 | 1057.1 | 1062.2 | 1061.4 | 1060.8 |
| 20° | 1087.2 | 1090.0 | 1087.9 | 1089.3 | 1092.2 | 1086.5 | 1076.5 | 1066.5 | 1060.0 | 1069.3 | 1068.6 |
| 22.5° | 1110.1 | 1107.3 | 1105.8 | 1104.4 | 1109.4 | 1115.1 | 1101.5 | 1085.7 | 1085.7 | 1092.2 | 1095.1 |
| 25° | 1128.7 | 1128.0 | 1127.3 | 1133.8 | 1150.9 | 1150.9 | 1133.8 | 1113.7 | 1108.7 | 1113.0 | 1109.4 |
| 27.5° | 1155.9 | 1163.8 | 1160.9 | 1172.4 | 1197.4 | 1203.1 | 1180.3 | 1156.6 | 1143.0 | 1138.0 | 1144.4 |
| 30° | 1218.2 | 1208.9 | 1211.0 | 1223.2 | 1245.4 | 1264.0 | 1229.0 | 1203.9 | 1185.2 | 1184.5 | 1187.4 |
| 32.5° | 1259.6 | 1266.9 | 1273.3 | 1284.7 | 1319.8 | 1334.2 | 1291.9 | 1251.1 | 1239.6 | 1233.2 | 1235.3 |
| 35° | 1342.7 | 1336.3 | 1334.8 | 1346.3 | 1381.3 | 1405.0 | 1352.0 | 1316.2 | 1301.2 | 1315.5 | 1315.5 |
| 37.5° | 1421.5 | 1403.5 | 1389.9 | 1405.0 | 1437.2 | 1440.0 | 1395.0 | 1375.6 | 1367.8 | 1384.2 | 1383.5 |
| 40° | 1458.6 | 1457.2 | 1425.7 | 1434.3 | 1477.3 | 1481.6 | 1439.4 | 1416.4 | 1415.0 | 1436.5 | 1458.0 |
| 42.5° | 1497.3 | 1483.7 | 1452.2 | 1458.0 | 1484.4 | 1485.9 | 1445.8 | 1439.4 | 1455.1 | 1475.9 | 1477.3 |
| 45° | 1503.8 | 1492.3 | 1472.3 | 1458.0 | 1477.3 | 1481.6 | 1458.0 | 1462.2 | 1463.7 | 1488.7 | 1488.7 |
| 47.5° | 1516.7 | 1515.2 | 1503.8 | 1493.0 | 1496.6 | 1493.0 | 1478.0 | 1484.4 | 1505.9 | 1518.1 | 1512.4 |
| 50° | 1552.4 | 1537.4 | 1548.9 | 1539.5 | 1540.3 | 1550.3 | 1536.7 | 1543.2 | 1538.9 | 1528.1 | 1520.9 |
| 52.5° | 1631.1 | 1624.0 | 1634.0 | 1640.5 | 1647.6 | 1670.5 | 1654.8 | 1620.4 | 1588.2 | 1559.6 | 1558.9 |
| 55° | 1746.4 | 1751.4 | 1770.7 | 1803.6 | 1831.5 | 1868.0 | 1792.2 | 1709.9 | 1658.4 | 1613.3 | 1616.1 |
| 57.5° | 1855.2 | 1851.6 | 1878.1 | 1953.2 | 2034.8 | 2053.5 | 1904.5 | 1787.2 | 1703.4 | 1674.9 | 1662.7 |
| 59° | 1767.9 | 1785.0 | 1845.2 | 1928.9 | 2057.0 | 2084.3 | 1889.6 | 1724.2 | 1635.4 | 1577.5 | 1587.5 |
| 60° | 1630.4 | 1636.8 | 1690.6 | 1807.2 | 1980.5 | 2027.0 | 1788.6 | 1626.8 | 1508.8 | 1475.1 | 1490.2 |
| 62.5° | 1152.3 | 1147.3 | 1186.0 | 1281.2 | 1436.5 | 1499.4 | 1329.8 | 1216.0 | 1141.6 | 1104.4 | 1113.0 |
| 65° | 612.7 | 635.5 | 651.4 | 710.7 | 793.1 | 859.6 | 789.4 | 740.1 | 698.5 | 667.8 | 667.1 |
| 67.5° | 413.7 | 410.8 | 414.4 | 428.0 | 455.9 | 474.5 | 473.1 | 448.1 | 444.5 | 438.7 | 445.2 |
| 70° | 348.6 | 347.2 | 340.7 | 340.7 | 346.4 | 350.7 | 355.7 | 358.6 | 364.3 | 371.5 | 370.7 |
| 72.5° | 282.7 | 279.1 | 274.8 | 272.7 | 279.9 | 282.0 | 288.5 | 291.3 | 296.3 | 295.6 | 302.0 |
| 75° | 186.8 | 186.8 | 191.8 | 197.6 | 199.7 | 203.9 | 204.7 | 213.3 | 213.3 | 214.7 | 209.0 |
| 77.5° | 104.5 | 101.6 | 105.2 | 110.9 | 116.0 | 123.8 | 131.7 | 138.2 | 141.7 | 140.3 | 140.3 |
| 80° | 60.8 | 60.8 | 64.4 | 70.9 | 77.3 | 84.4 | 90.2 | 95.2 | 98.7 | 97.3 | 94.4 |
| 82.5° | 37.9 | 37.9 | 41.5 | 47.9 | 53.0 | 57.3 | 65.1 | 71.6 | 75.9 | 74.4 | 70.9 |
| 85° | 19.3 | 19.3 | 23.6 | 27.9 | 34.4 | 37.3 | 36.5 | 33.6 | 32.9 | 29.4 | 29.4 |
| 87.5° | 5.0 | 5.0 | 7.1 | 7.9 | 6.5 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.9 |
| 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)