

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: P450771

Luminaire Tested: **GALN-SA1C-760-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-760-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7424 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

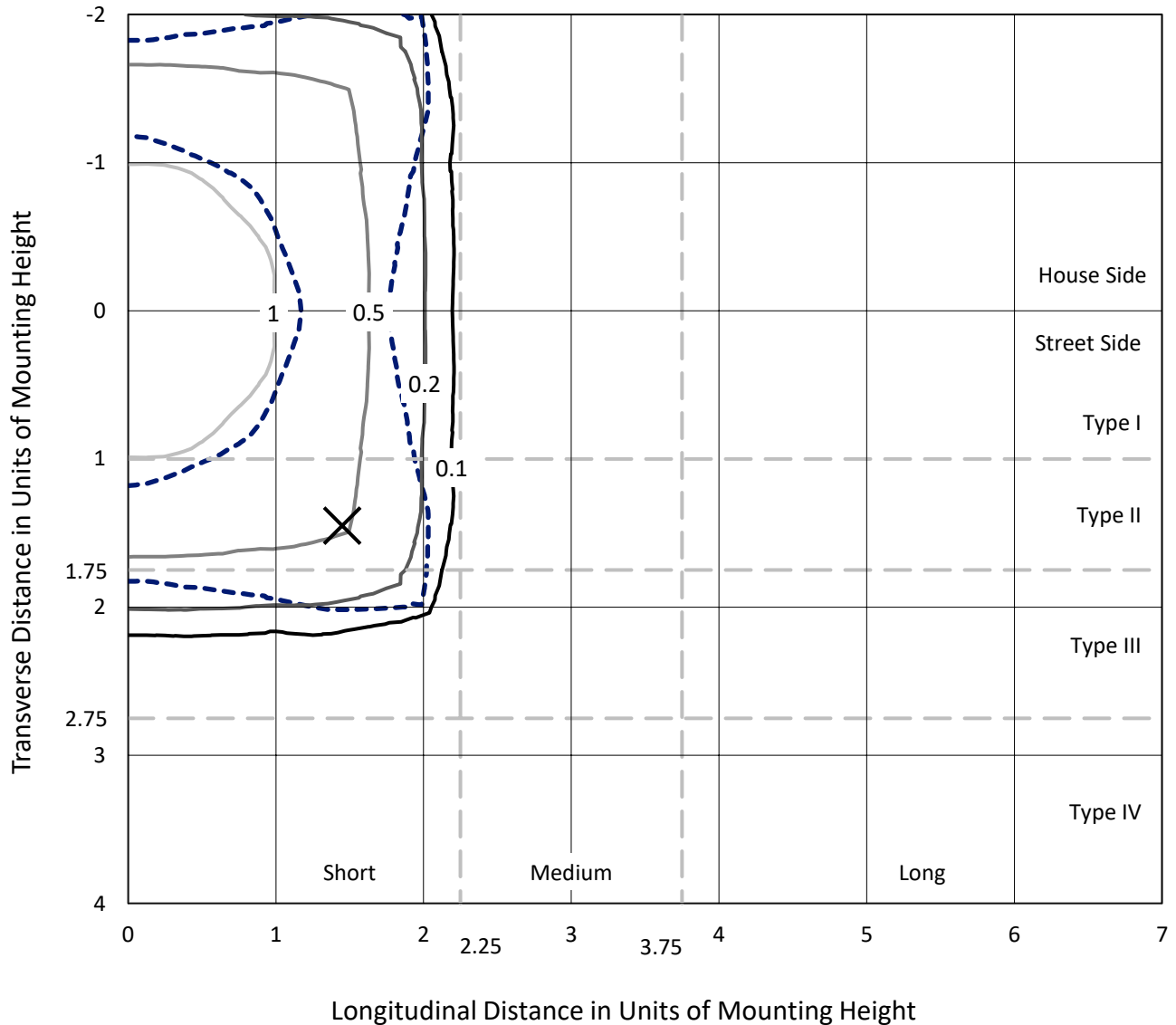
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

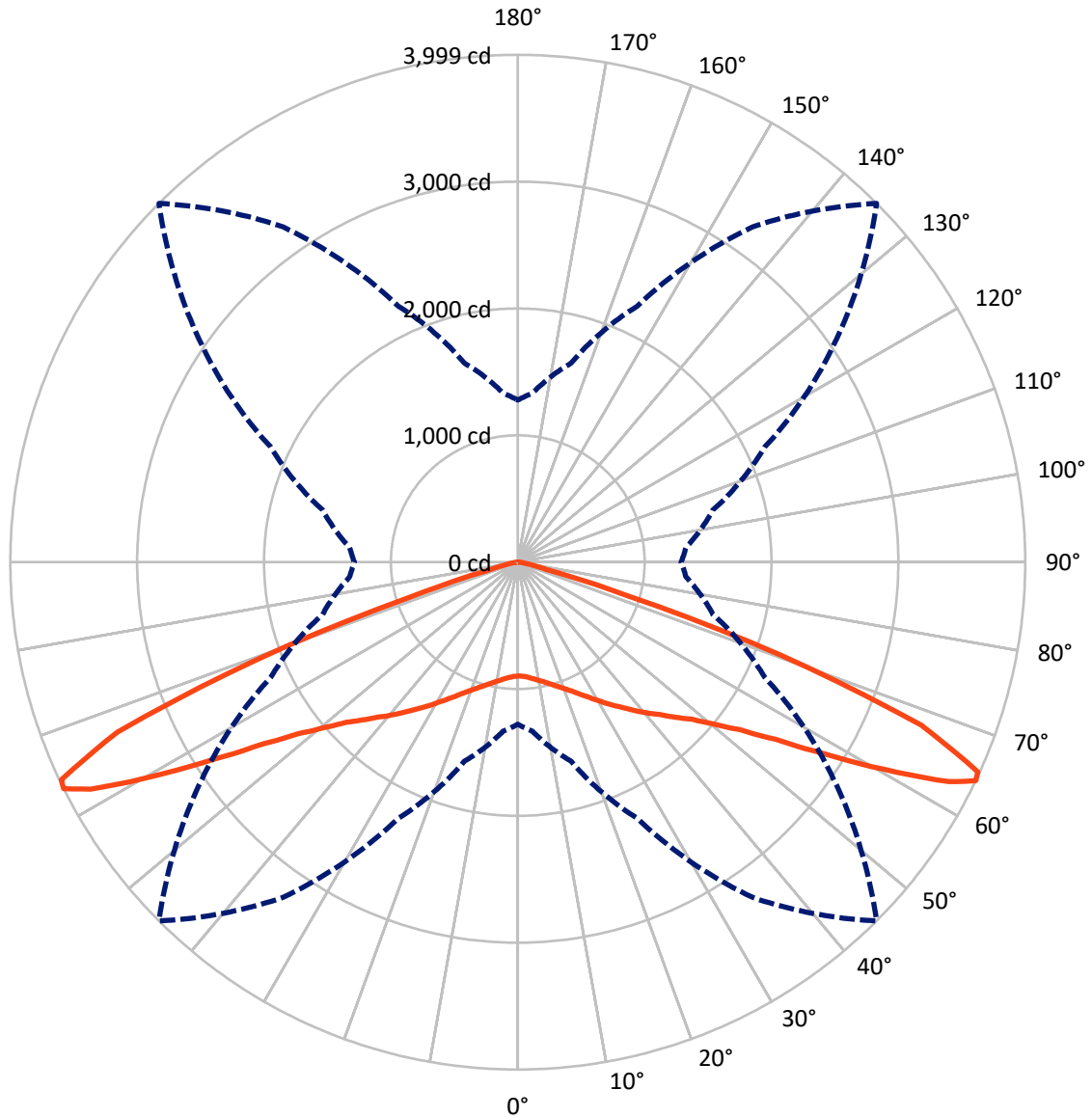
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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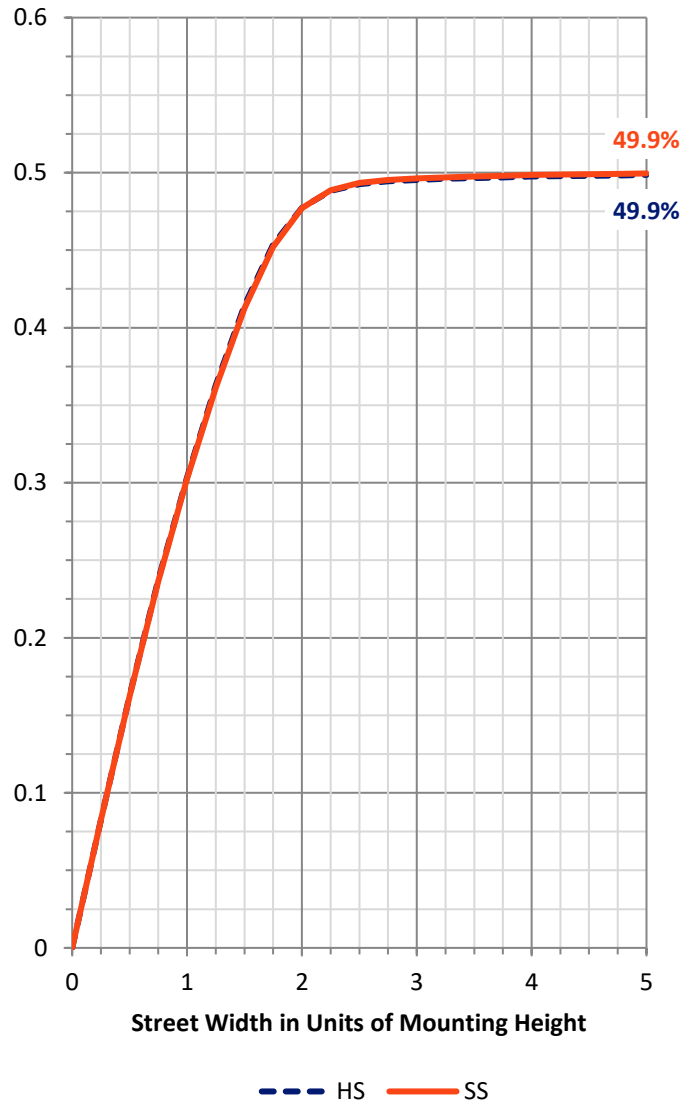
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3712.0 | 0.0 | 3712.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3712.0 | 0.0 | 3712.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 7424.0 | 0.0 | 7424.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 88.2 | 1.2 |
| 10°-20° | 284.4 | 3.8 |
| 20°-30° | 537.4 | 7.2 |
| 30°-40° | 889.9 | 12.0 |
| 40°-50° | 1389.3 | 18.7 |
| 50°-60° | 2147.8 | 28.9 |
| 60°-70° | 1852.0 | 24.9 |
| 70°-80° | 209.9 | 2.8 |
| 80°-90° | 25.1 | 0.3 |
| 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° | 7424.0 | 100.0 |
| 0°-180° | 7424.0 | 100.0 |



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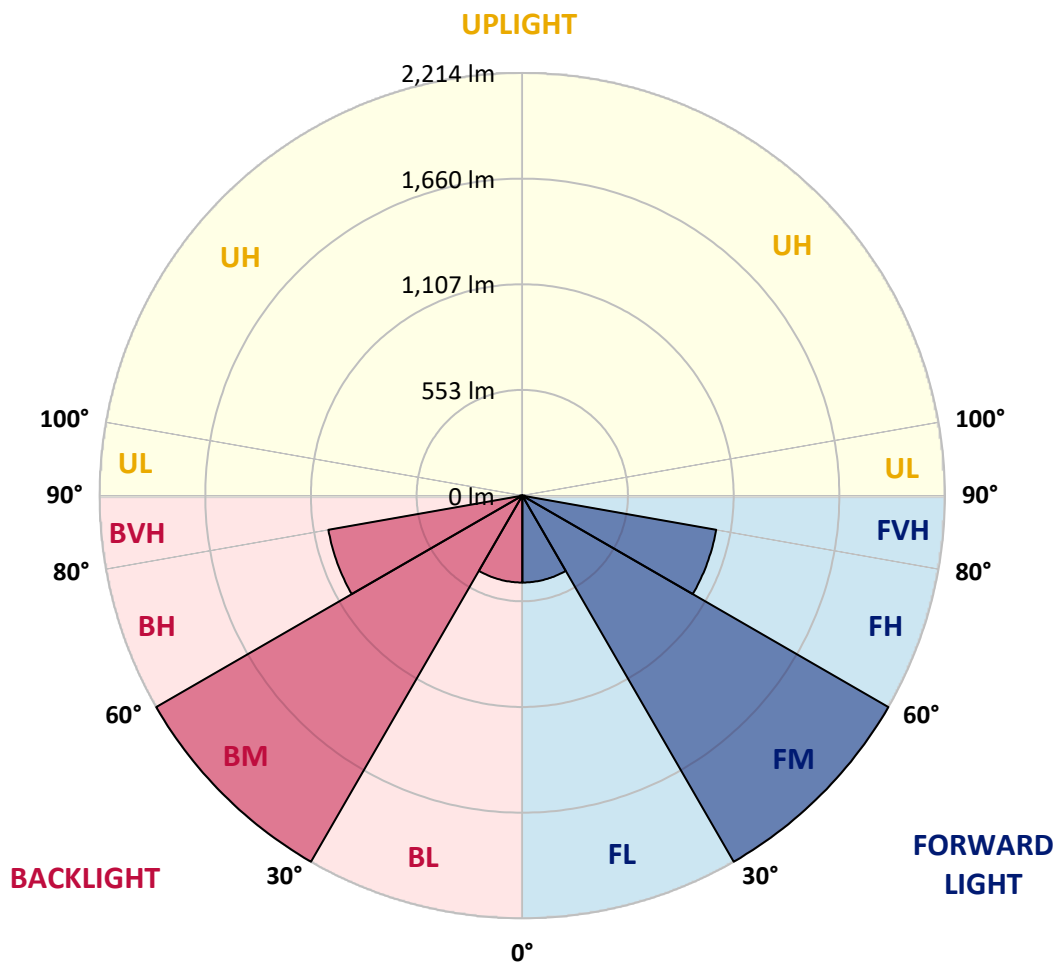
CATALOG NUMBER: GALN-SA1C-760-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 454.9 | 6.1 | | | |
| FM | (30°-60°) | 2213.5 | 29.8 | | | |
| FH | (60°-80°) | 1031.0 | 13.9 | | | G1/1800 |
| FVH | (80°-90°) | 12.6 | 0.2 | | | G1/100 |
| BL | (0°-30°) | 454.9 | 6.1 | B1/500 | | |
| BM | (30°-60°) | 2213.5 | 29.8 | B2/2500 | | |
| BH | (60°-80°) | 1031.0 | 13.9 | B3/2500 | | G1/1800 |
| BVH | (80°-90°) | 12.6 | 0.2 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 897.3 | 897.3 | 897.3 | 897.3 | 897.3 | 897.3 | 897.3 | 897.3 | 897.3 | 897.3 | 897.3 |
| 2.5° | 900.9 | 902.8 | 901.2 | 900.9 | 900.5 | 900.5 | 900.5 | 900.9 | 902.4 | 903.6 | 902.8 |
| 5° | 912.3 | 913.8 | 913.0 | 912.7 | 912.3 | 912.7 | 911.9 | 911.5 | 912.7 | 912.7 | 912.3 |
| 7.5° | 926.4 | 928.4 | 927.6 | 928.4 | 928.8 | 929.2 | 927.2 | 925.6 | 925.2 | 926.4 | 925.6 |
| 10° | 945.7 | 947.3 | 947.6 | 948.0 | 948.8 | 948.4 | 946.1 | 943.3 | 942.9 | 942.5 | 942.1 |
| 12.5° | 967.3 | 968.5 | 968.9 | 970.5 | 971.6 | 972.0 | 969.3 | 966.9 | 963.0 | 963.8 | 962.2 |
| 15° | 991.7 | 994.0 | 993.7 | 996.0 | 999.2 | 999.9 | 997.2 | 993.3 | 989.7 | 987.8 | 986.6 |
| 17.5° | 1021.6 | 1023.1 | 1022.4 | 1024.7 | 1028.6 | 1030.6 | 1028.3 | 1023.1 | 1019.6 | 1015.3 | 1012.9 |
| 20° | 1057.0 | 1059.7 | 1060.5 | 1060.5 | 1064.0 | 1066.0 | 1062.5 | 1060.9 | 1055.4 | 1052.2 | 1050.3 |
| 22.5° | 1097.1 | 1098.2 | 1100.6 | 1103.0 | 1106.5 | 1105.7 | 1104.5 | 1102.2 | 1097.1 | 1094.3 | 1091.2 |
| 25° | 1142.3 | 1143.5 | 1149.4 | 1154.5 | 1155.7 | 1154.9 | 1153.3 | 1152.1 | 1147.4 | 1141.1 | 1138.7 |
| 27.5° | 1195.0 | 1197.3 | 1205.2 | 1209.9 | 1209.9 | 1210.3 | 1207.2 | 1211.1 | 1200.9 | 1193.4 | 1192.6 |
| 30° | 1261.0 | 1262.6 | 1269.3 | 1274.0 | 1271.7 | 1269.7 | 1268.9 | 1272.8 | 1261.8 | 1248.5 | 1245.3 |
| 32.5° | 1326.3 | 1331.8 | 1337.7 | 1347.9 | 1339.7 | 1336.1 | 1335.4 | 1338.1 | 1325.5 | 1310.6 | 1306.3 |
| 35° | 1396.3 | 1400.2 | 1411.2 | 1419.9 | 1412.4 | 1404.2 | 1407.7 | 1416.4 | 1401.4 | 1381.4 | 1380.6 |
| 37.5° | 1473.8 | 1477.3 | 1491.5 | 1500.5 | 1495.0 | 1480.8 | 1486.7 | 1497.0 | 1482.0 | 1457.3 | 1452.1 |
| 40° | 1554.4 | 1561.8 | 1579.5 | 1589.0 | 1579.9 | 1561.1 | 1572.1 | 1583.1 | 1569.7 | 1541.0 | 1529.6 |
| 42.5° | 1644.8 | 1656.6 | 1682.2 | 1686.9 | 1669.6 | 1644.0 | 1663.3 | 1681.0 | 1671.6 | 1638.5 | 1634.2 |
| 45° | 1750.6 | 1757.7 | 1789.1 | 1799.3 | 1775.4 | 1743.5 | 1767.5 | 1799.7 | 1792.7 | 1754.5 | 1746.3 |
| 47.5° | 1868.9 | 1875.6 | 1908.3 | 1923.6 | 1893.3 | 1850.5 | 1893.7 | 1935.8 | 1931.5 | 1890.6 | 1886.6 |
| 50° | 2008.9 | 2010.5 | 2055.7 | 2073.0 | 2042.7 | 2005.8 | 2044.3 | 2096.6 | 2079.3 | 2027.0 | 2026.2 |
| 52.5° | 2162.3 | 2164.3 | 2221.3 | 2254.7 | 2237.8 | 2196.1 | 2241.7 | 2273.6 | 2229.5 | 2161.1 | 2156.0 |
| 55° | 2295.2 | 2305.0 | 2382.9 | 2471.7 | 2494.9 | 2464.7 | 2478.4 | 2463.5 | 2355.0 | 2259.0 | 2244.1 |
| 57.5° | 2349.5 | 2368.7 | 2487.1 | 2653.0 | 2804.0 | 2848.8 | 2742.7 | 2600.3 | 2404.9 | 2269.2 | 2254.7 |
| 60° | 2216.9 | 2237.8 | 2421.4 | 2736.4 | 3121.7 | 3316.4 | 3017.9 | 2623.5 | 2291.3 | 2100.6 | 2077.7 |
| 62.5° | 1775.4 | 1781.3 | 2051.4 | 2540.2 | 3306.9 | 3811.0 | 3133.9 | 2425.7 | 1960.6 | 1701.4 | 1692.4 |
| 64° | 1277.6 | 1338.1 | 1624.4 | 2227.2 | 3225.9 | 3999.4 | 3067.1 | 2148.5 | 1592.5 | 1330.2 | 1287.8 |
| 65° | 955.5 | 972.0 | 1309.4 | 1902.0 | 3083.2 | 3985.2 | 2937.3 | 1883.5 | 1318.8 | 1018.0 | 970.8 |
| 67.5° | 361.0 | 362.9 | 483.3 | 948.0 | 2194.9 | 3428.8 | 2241.7 | 1024.7 | 555.6 | 401.9 | 387.3 |
| 70° | 149.8 | 152.6 | 177.3 | 318.9 | 943.3 | 2201.6 | 1080.9 | 369.6 | 203.3 | 164.8 | 162.4 |
| 72.5° | 109.7 | 111.3 | 118.8 | 141.6 | 290.2 | 904.0 | 355.5 | 156.9 | 119.1 | 106.6 | 105.4 |
| 75° | 86.1 | 86.9 | 92.4 | 104.2 | 135.3 | 250.5 | 147.8 | 107.7 | 90.8 | 81.8 | 81.0 |
| 77.5° | 65.7 | 67.6 | 71.6 | 79.4 | 90.8 | 118.8 | 97.9 | 80.6 | 70.0 | 62.5 | 61.3 |
| 80° | 45.2 | 47.6 | 55.1 | 58.2 | 60.9 | 77.1 | 66.8 | 60.9 | 54.7 | 45.6 | 42.9 |
| 82.5° | 27.9 | 29.5 | 37.0 | 39.7 | 38.5 | 43.3 | 42.9 | 43.6 | 38.9 | 28.3 | 26.3 |
| 85° | 14.5 | 15.3 | 20.1 | 20.8 | 19.3 | 17.7 | 22.0 | 25.6 | 24.0 | 16.1 | 15.7 |
| 87.5° | 3.1 | 3.5 | 4.3 | 3.9 | 4.3 | 4.3 | 5.5 | 8.3 | 8.7 | 5.5 | 5.1 |
| 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)