

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: P527653

Luminaire Tested: **GALN-SA2D-722-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-722-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5965 lumens
Efficiency: N/A
Efficacy: 47.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

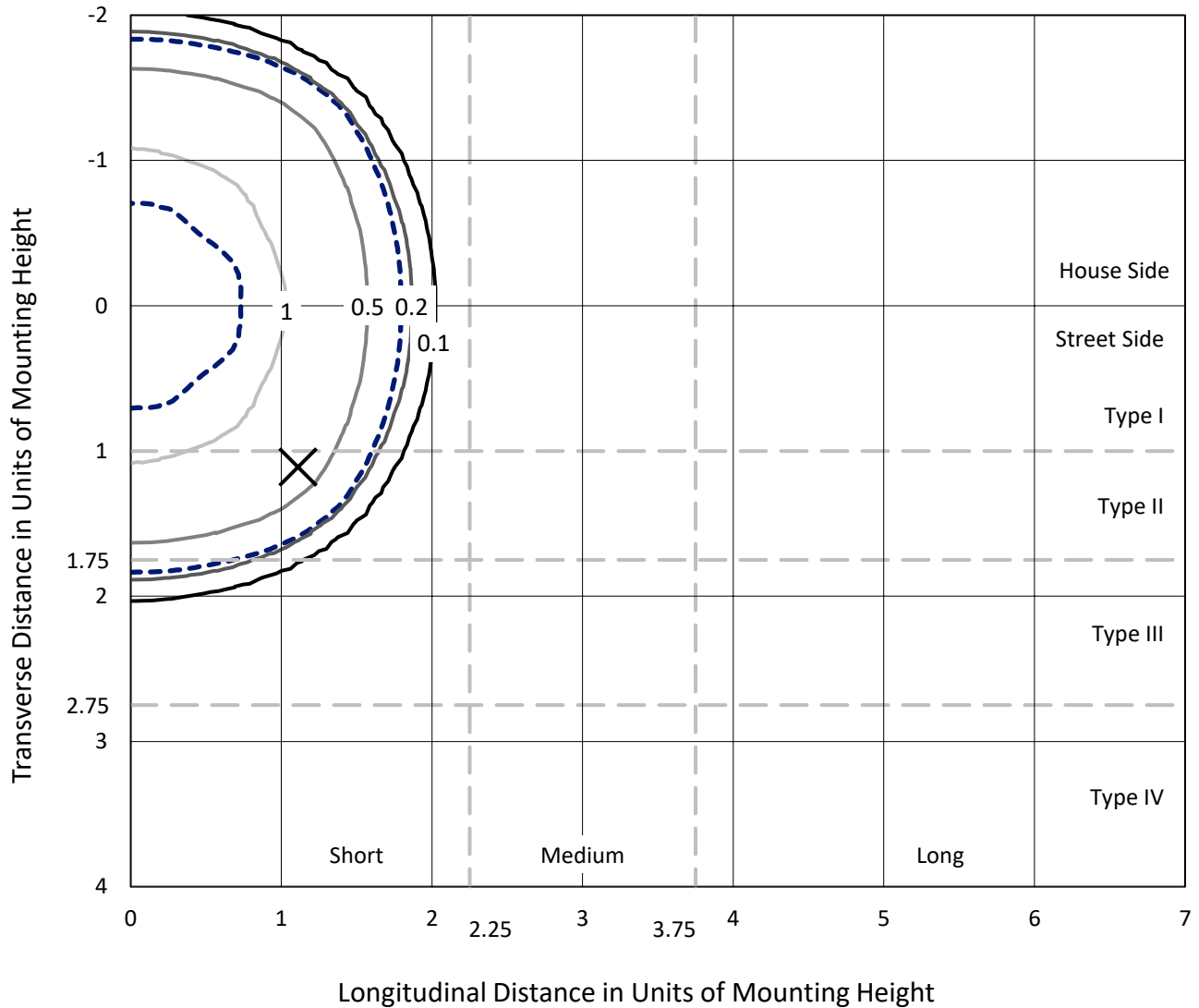
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

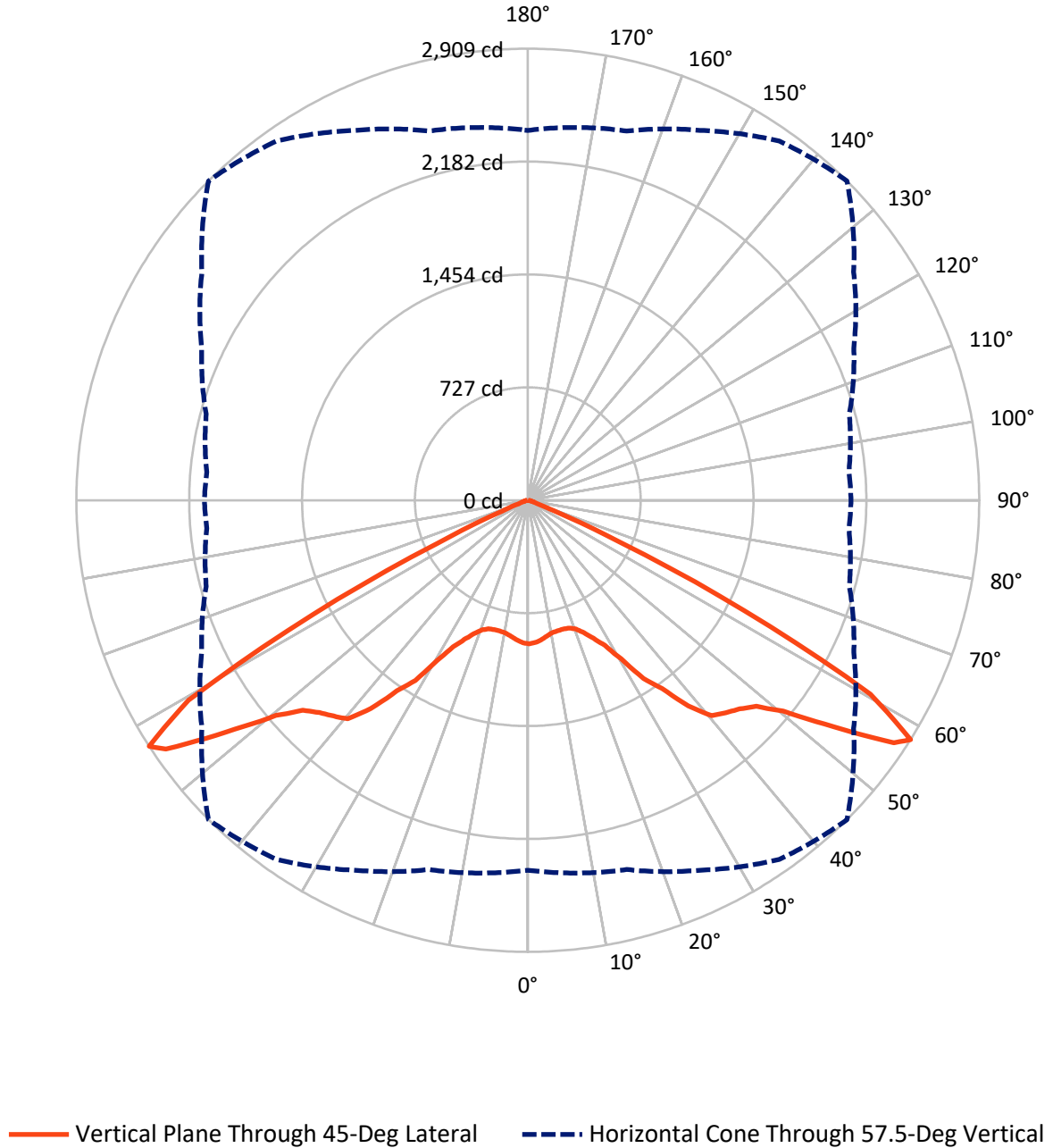
✕ Max cd
 - - - 1/2 Max cd



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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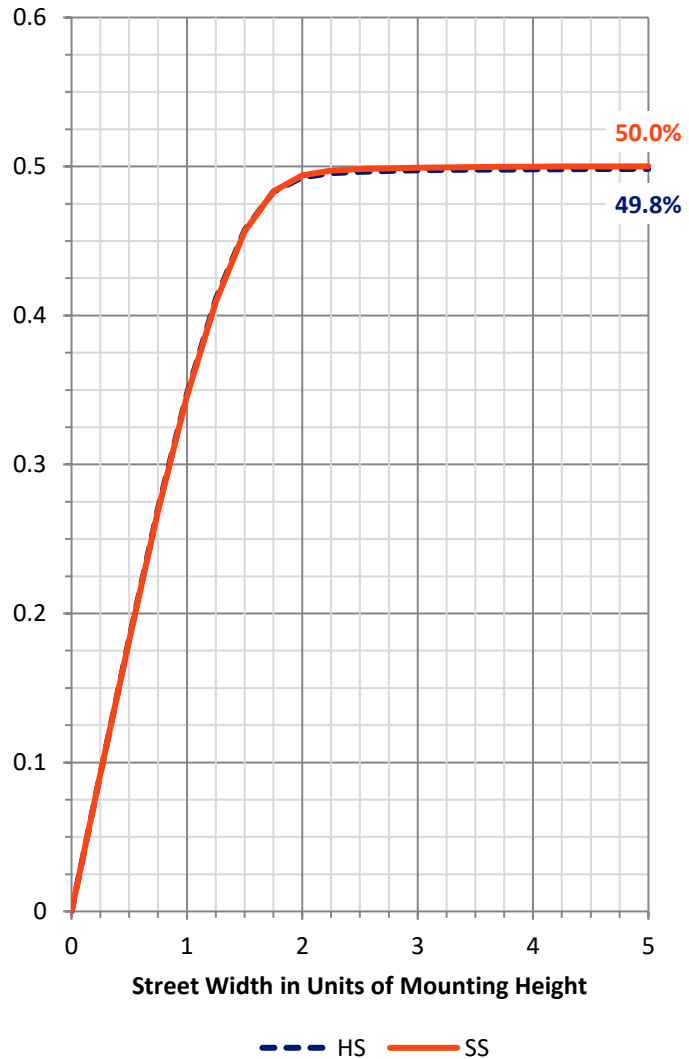
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2982.5 | 0.0 | 2982.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2982.5 | 0.0 | 2982.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 5965.0 | 0.0 | 5965.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 85.0 | 1.4 |
| 10°-20° | 245.8 | 4.1 |
| 20°-30° | 453.6 | 7.6 |
| 30°-40° | 892.1 | 15.0 |
| 40°-50° | 1453.0 | 24.4 |
| 50°-60° | 2072.2 | 34.7 |
| 60°-70° | 717.5 | 12.0 |
| 70°-80° | 38.5 | 0.6 |
| 80°-90° | 7.2 | 0.1 |
| 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° | 5965.0 | 100.0 |
| 0°-180° | 5965.0 | 100.0 |

Coefficient of Utilization



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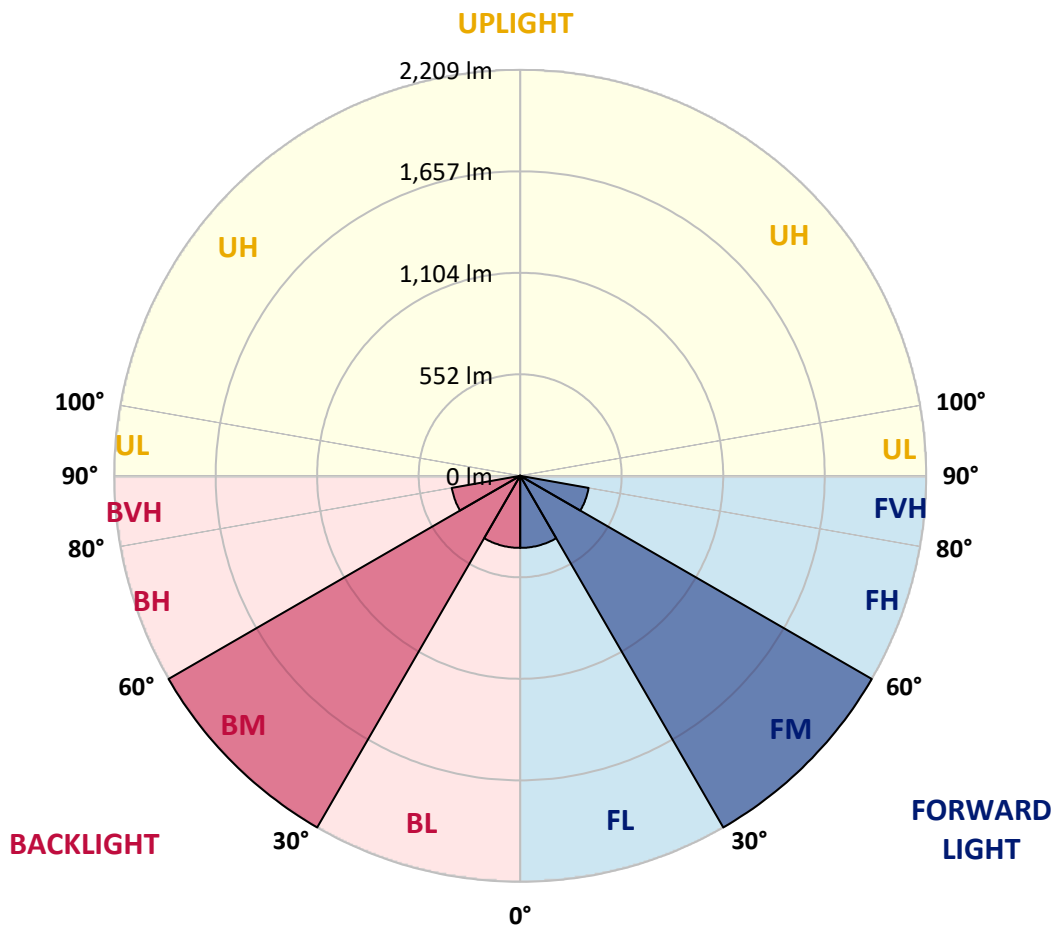
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 392.2 | 6.6 | | | |
| FM (30°-60°) | 2208.7 | 37.0 | | | |
| FH (60°-80°) | 378.0 | 6.3 | | | G0/660 |
| FVH (80°-90°) | 3.6 | 0.1 | | | G0/10 |
| BL (0°-30°) | 392.2 | 6.6 | B1/500 | | |
| BM (30°-60°) | 2208.7 | 37.0 | B2/2500 | | |
| BH (60°-80°) | 378.0 | 6.3 | B1/500 | | G0/660 |
| BVH (80°-90°) | 3.6 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 925.2 | 925.2 | 925.2 | 925.2 | 925.2 | 925.2 | 925.2 | 925.2 | 925.2 | 925.2 | 925.2 |
| 2.5° | 922.7 | 927.7 | 921.5 | 919.0 | 917.8 | 917.8 | 914.0 | 914.0 | 912.8 | 914.0 | 909.1 |
| 5° | 907.8 | 912.8 | 912.8 | 911.6 | 904.1 | 902.8 | 899.1 | 896.6 | 897.9 | 892.9 | 896.6 |
| 7.5° | 892.9 | 896.6 | 891.7 | 890.4 | 887.9 | 883.0 | 881.7 | 870.5 | 871.8 | 871.8 | 874.2 |
| 10° | 890.4 | 889.2 | 881.7 | 875.5 | 868.0 | 866.8 | 863.1 | 860.6 | 860.6 | 859.3 | 863.1 |
| 12.5° | 890.4 | 884.2 | 883.0 | 869.3 | 856.8 | 861.8 | 851.9 | 845.6 | 854.3 | 856.8 | 861.8 |
| 15° | 889.2 | 895.4 | 874.2 | 868.0 | 859.3 | 860.6 | 851.9 | 845.6 | 850.6 | 853.1 | 856.8 |
| 17.5° | 896.6 | 892.9 | 886.7 | 874.2 | 870.5 | 865.5 | 854.3 | 849.4 | 849.4 | 855.6 | 856.8 |
| 20° | 916.5 | 906.6 | 894.1 | 887.9 | 891.7 | 885.4 | 871.8 | 853.1 | 858.1 | 863.1 | 866.8 |
| 22.5° | 935.2 | 927.7 | 919.0 | 915.3 | 936.4 | 926.5 | 902.8 | 881.7 | 874.2 | 883.0 | 889.2 |
| 25° | 971.2 | 971.2 | 955.1 | 960.1 | 983.7 | 984.9 | 957.6 | 920.3 | 915.3 | 919.0 | 921.5 |
| 27.5° | 1044.6 | 1048.3 | 1034.7 | 1039.6 | 1049.6 | 1058.3 | 1034.7 | 1003.6 | 992.4 | 991.1 | 994.9 |
| 30° | 1124.2 | 1131.7 | 1130.4 | 1151.6 | 1180.2 | 1185.1 | 1150.3 | 1099.3 | 1065.8 | 1059.5 | 1064.5 |
| 32.5° | 1228.7 | 1232.4 | 1229.9 | 1254.8 | 1331.9 | 1368.0 | 1277.2 | 1205.0 | 1160.3 | 1171.5 | 1160.3 |
| 35° | 1425.2 | 1421.4 | 1394.1 | 1399.0 | 1462.5 | 1488.6 | 1401.5 | 1355.5 | 1334.4 | 1356.8 | 1351.8 |
| 37.5° | 1594.3 | 1580.6 | 1558.2 | 1590.6 | 1656.5 | 1680.1 | 1589.3 | 1508.5 | 1469.9 | 1507.2 | 1523.4 |
| 40° | 1737.3 | 1702.5 | 1671.4 | 1703.7 | 1792.0 | 1824.4 | 1691.3 | 1625.4 | 1610.5 | 1637.8 | 1672.6 |
| 42.5° | 1857.9 | 1835.5 | 1794.5 | 1797.0 | 1855.4 | 1870.4 | 1763.4 | 1724.9 | 1709.9 | 1753.5 | 1770.9 |
| 45° | 1943.7 | 1922.6 | 1884.0 | 1881.6 | 1926.3 | 1916.4 | 1820.6 | 1794.5 | 1803.2 | 1831.8 | 1840.5 |
| 47.5° | 1987.3 | 1998.5 | 1976.1 | 1982.3 | 2005.9 | 1982.3 | 1906.4 | 1906.4 | 1886.5 | 1903.9 | 1895.2 |
| 50° | 2112.9 | 2078.0 | 2106.6 | 2106.6 | 2131.5 | 2134.0 | 2058.1 | 2030.8 | 1977.3 | 1947.5 | 1947.5 |
| 52.5° | 2259.6 | 2262.1 | 2273.3 | 2314.3 | 2356.6 | 2392.7 | 2284.5 | 2167.6 | 2078.0 | 2039.5 | 2034.5 |
| 55° | 2380.2 | 2405.1 | 2449.9 | 2527.0 | 2648.9 | 2698.6 | 2512.1 | 2303.1 | 2193.7 | 2134.0 | 2121.6 |
| 56° | 2446.1 | 2422.5 | 2499.6 | 2605.3 | 2764.5 | 2829.2 | 2549.4 | 2330.5 | 2209.9 | 2142.7 | 2141.5 |
| 57.5° | 2382.7 | 2408.8 | 2462.3 | 2629.0 | 2824.2 | 2908.8 | 2563.0 | 2318.1 | 2145.2 | 2076.8 | 2083.0 |
| 60° | 1881.6 | 1906.4 | 1978.6 | 2165.1 | 2471.0 | 2536.9 | 2168.8 | 1911.4 | 1757.2 | 1659.0 | 1660.2 |
| 62.5° | 1064.5 | 1083.2 | 1139.1 | 1312.0 | 1502.3 | 1565.7 | 1351.8 | 1180.2 | 1073.2 | 1018.5 | 1001.1 |
| 65° | 391.7 | 384.3 | 393.0 | 481.3 | 598.2 | 651.6 | 562.1 | 475.1 | 419.1 | 399.2 | 391.7 |
| 67.5° | 146.7 | 135.6 | 126.8 | 135.6 | 170.4 | 180.3 | 165.4 | 138.0 | 129.3 | 133.1 | 135.6 |
| 70° | 90.8 | 85.8 | 68.4 | 64.7 | 63.4 | 62.2 | 65.9 | 69.6 | 79.6 | 93.3 | 95.8 |
| 72.5° | 63.4 | 59.7 | 48.5 | 46.0 | 43.5 | 42.3 | 48.5 | 53.5 | 62.2 | 72.1 | 73.4 |
| 75° | 24.9 | 26.1 | 24.9 | 27.4 | 28.6 | 29.8 | 34.8 | 38.6 | 42.3 | 42.3 | 41.0 |
| 77.5° | 5.0 | 5.0 | 7.5 | 9.9 | 12.4 | 16.2 | 23.6 | 27.4 | 28.6 | 27.4 | 23.6 |
| 80° | 0.0 | 0.0 | 2.5 | 5.0 | 9.9 | 13.7 | 21.1 | 23.6 | 26.1 | 23.6 | 18.7 |
| 82.5° | 0.0 | 0.0 | 2.5 | 6.2 | 9.9 | 12.4 | 19.9 | 24.9 | 28.6 | 26.1 | 19.9 |
| 85° | 0.0 | 0.0 | 2.5 | 5.0 | 7.5 | 8.7 | 8.7 | 6.2 | 6.2 | 3.7 | 2.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)