

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386714

Luminaire Tested: GAW-SA2B-830-U-5MQ

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386714
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
Product Line: STREETWORKS
Catalog Number: GAW-SA2B-830-U-5MQ
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 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: 9956 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

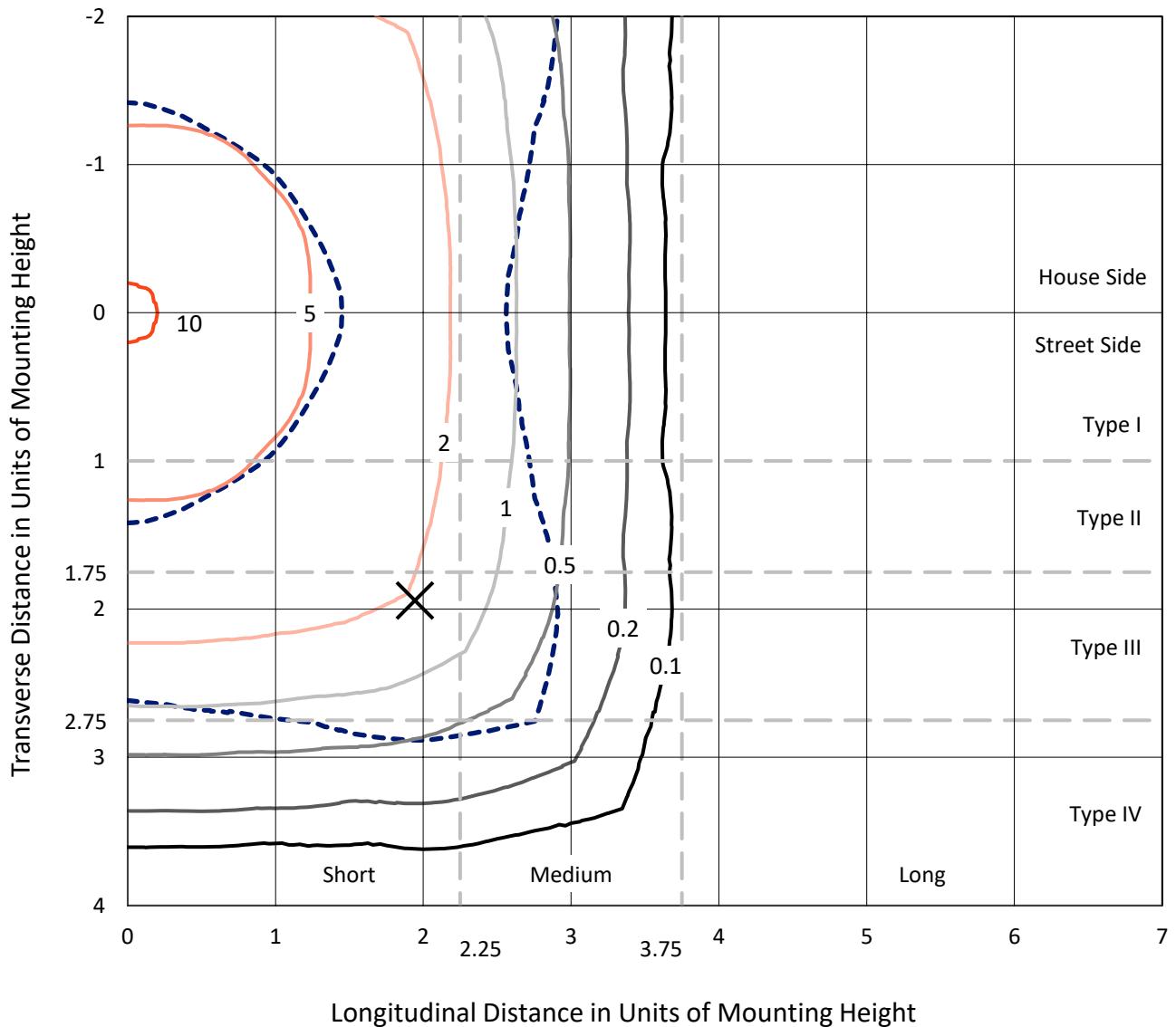
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

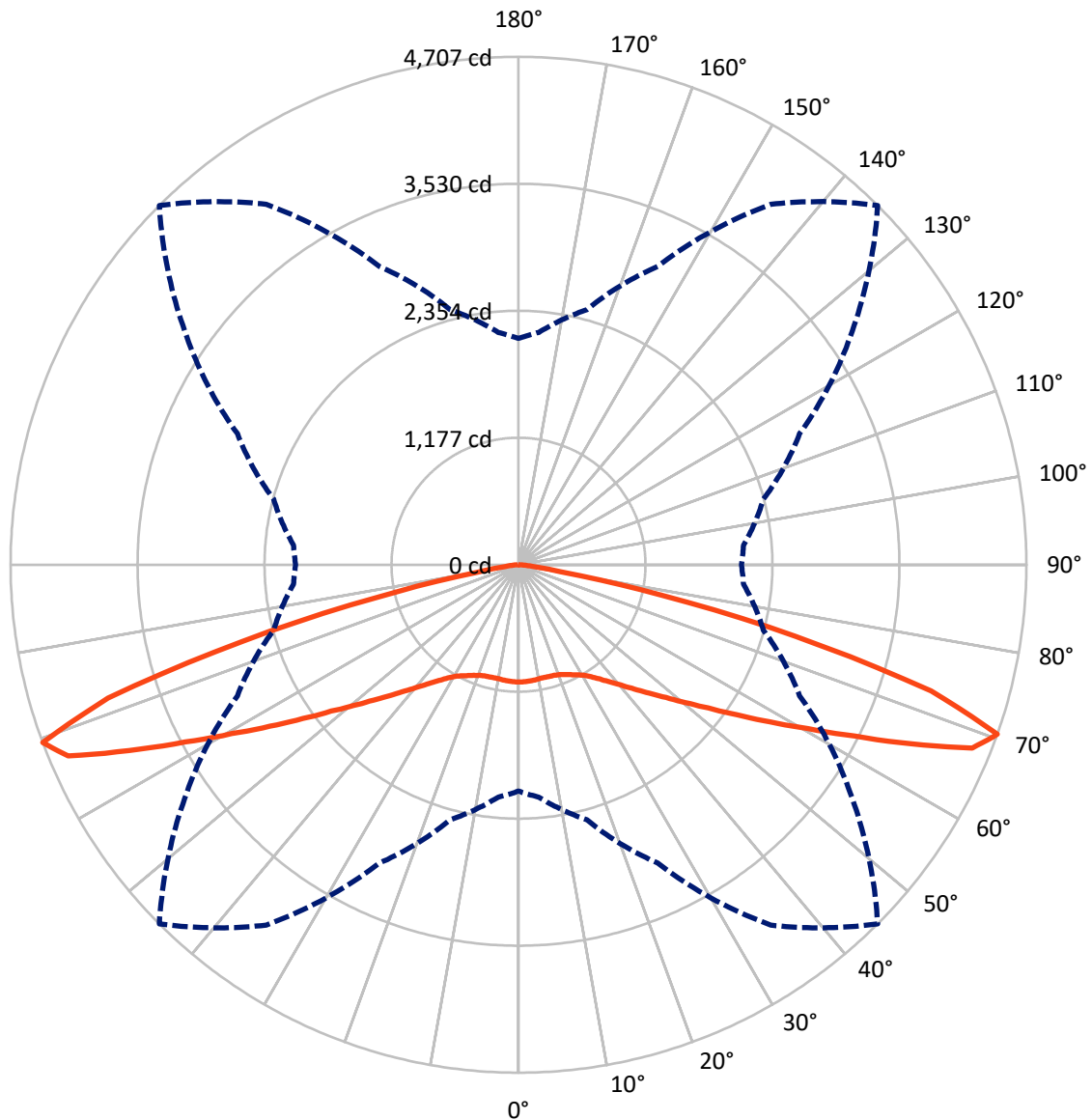
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.9 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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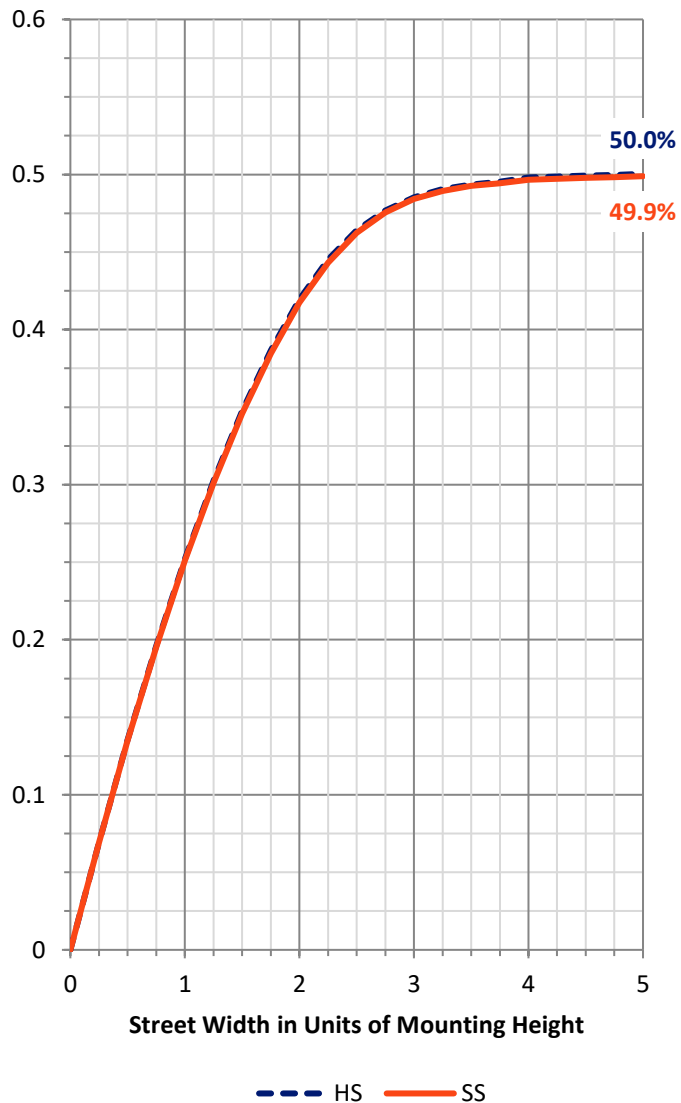
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4978.0 | 0.0 | 4978.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4978.0 | 0.0 | 4978.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 9956.0 | 0.0 | 9956.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 103.0 | 1.0 |
| 10°-20° | 302.3 | 3.0 |
| 20°-30° | 514.7 | 5.2 |
| 30°-40° | 816.3 | 8.2 |
| 40°-50° | 1328.3 | 13.3 |
| 50°-60° | 2190.1 | 22.0 |
| 60°-70° | 3215.2 | 32.3 |
| 70°-80° | 1421.7 | 14.3 |
| 80°-90° | 64.4 | 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° | 9956.0 | 100.0 |
| 0°-180° | 9956.0 | 100.0 |

Coefficient of Utilization



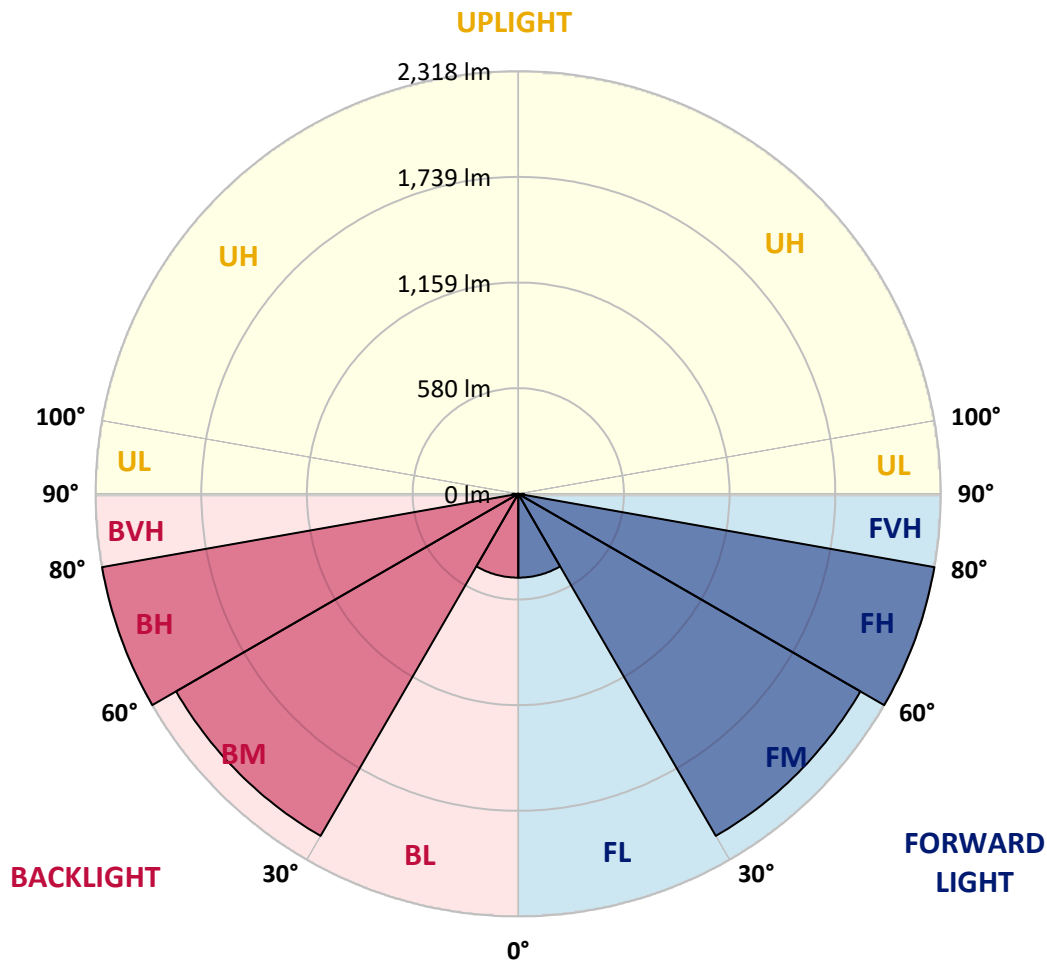
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 460.0 | 4.6 | | | |
| FM (30°-60°) | 2167.4 | 21.8 | | | |
| FH (60°-80°) | 2318.5 | 23.3 | | | G2/5000 |
| FVH (80°-90°) | 32.2 | 0.3 | | | G1/100 |
| BL (0°-30°) | 460.0 | 4.6 | B1/500 | | |
| BM (30°-60°) | 2167.4 | 21.8 | B2/2500 | | |
| BH (60°-80°) | 2318.5 | 23.3 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 32.2 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1087.4 | 1087.4 | 1087.4 | 1087.4 | 1087.4 | 1087.4 | 1087.4 | 1087.4 | 1087.4 | 1087.4 | 1087.4 |
| 2.5° | 1085.7 | 1084.7 | 1087.0 | 1086.7 | 1084.7 | 1085.0 | 1085.0 | 1086.0 | 1086.0 | 1085.4 | 1085.4 |
| 5° | 1081.7 | 1081.1 | 1083.7 | 1083.7 | 1081.7 | 1082.4 | 1083.1 | 1084.1 | 1083.7 | 1083.1 | 1082.7 |
| 7.5° | 1076.8 | 1076.5 | 1079.1 | 1079.1 | 1077.8 | 1078.5 | 1077.8 | 1078.1 | 1077.5 | 1076.8 | 1075.8 |
| 10° | 1068.6 | 1069.2 | 1071.5 | 1072.2 | 1072.2 | 1072.5 | 1071.9 | 1070.2 | 1069.2 | 1068.2 | 1067.3 |
| 12.5° | 1061.0 | 1060.7 | 1064.0 | 1065.6 | 1068.2 | 1071.2 | 1069.2 | 1064.6 | 1062.6 | 1060.7 | 1060.0 |
| 15° | 1056.0 | 1056.4 | 1059.7 | 1062.6 | 1067.3 | 1073.5 | 1071.2 | 1064.0 | 1060.0 | 1057.7 | 1057.0 |
| 17.5° | 1055.1 | 1055.7 | 1060.0 | 1065.3 | 1070.2 | 1077.1 | 1075.8 | 1068.6 | 1062.0 | 1057.7 | 1056.7 |
| 20° | 1057.4 | 1057.7 | 1064.3 | 1071.9 | 1080.4 | 1087.0 | 1084.1 | 1076.1 | 1067.3 | 1060.7 | 1059.0 |
| 22.5° | 1061.6 | 1063.0 | 1071.2 | 1083.1 | 1096.2 | 1105.1 | 1101.5 | 1088.0 | 1074.2 | 1065.9 | 1063.6 |
| 25° | 1075.2 | 1075.5 | 1086.7 | 1102.8 | 1118.7 | 1128.9 | 1124.6 | 1105.5 | 1087.7 | 1078.5 | 1075.5 |
| 27.5° | 1103.2 | 1104.2 | 1115.4 | 1134.1 | 1147.6 | 1154.2 | 1151.6 | 1136.1 | 1121.0 | 1111.1 | 1112.1 |
| 30° | 1143.7 | 1145.0 | 1157.5 | 1178.3 | 1186.5 | 1188.2 | 1187.5 | 1180.3 | 1166.4 | 1153.3 | 1154.2 |
| 32.5° | 1193.1 | 1193.8 | 1210.6 | 1229.4 | 1236.0 | 1237.3 | 1236.0 | 1229.4 | 1212.9 | 1195.1 | 1196.1 |
| 35° | 1256.7 | 1258.7 | 1274.8 | 1293.0 | 1298.2 | 1300.9 | 1298.6 | 1290.0 | 1272.9 | 1255.4 | 1254.7 |
| 37.5° | 1335.1 | 1335.5 | 1352.3 | 1371.0 | 1377.6 | 1378.3 | 1375.7 | 1370.1 | 1348.6 | 1332.8 | 1331.8 |
| 40° | 1426.1 | 1427.4 | 1447.2 | 1467.3 | 1469.9 | 1466.9 | 1470.6 | 1467.3 | 1445.2 | 1427.1 | 1430.0 |
| 42.5° | 1536.8 | 1539.8 | 1563.5 | 1583.2 | 1575.7 | 1574.0 | 1576.3 | 1577.3 | 1559.5 | 1537.4 | 1535.5 |
| 45° | 1665.6 | 1668.3 | 1697.9 | 1713.7 | 1708.8 | 1697.9 | 1702.5 | 1710.4 | 1685.7 | 1658.4 | 1661.0 |
| 47.5° | 1812.6 | 1819.2 | 1850.8 | 1865.6 | 1853.4 | 1838.6 | 1847.5 | 1859.4 | 1830.4 | 1796.4 | 1794.8 |
| 50° | 1976.0 | 1984.2 | 2026.4 | 2047.2 | 2035.0 | 2007.6 | 2022.5 | 2030.4 | 1988.5 | 1944.7 | 1941.1 |
| 52.5° | 2150.3 | 2158.6 | 2211.6 | 2254.4 | 2246.5 | 2204.0 | 2224.8 | 2216.5 | 2168.4 | 2109.5 | 2104.8 |
| 55° | 2347.7 | 2351.0 | 2408.3 | 2477.5 | 2485.4 | 2454.1 | 2452.8 | 2439.3 | 2368.1 | 2299.9 | 2296.6 |
| 57.5° | 2550.7 | 2553.0 | 2627.1 | 2708.8 | 2746.1 | 2746.1 | 2709.1 | 2680.5 | 2585.9 | 2506.8 | 2498.6 |
| 60° | 2769.8 | 2778.0 | 2860.1 | 2971.1 | 3058.1 | 3083.8 | 3018.5 | 2940.5 | 2837.7 | 2741.1 | 2731.6 |
| 62.5° | 2964.8 | 2974.4 | 3099.9 | 3265.3 | 3405.1 | 3498.6 | 3339.2 | 3212.0 | 3024.8 | 2869.9 | 2851.8 |
| 65° | 2989.6 | 3015.3 | 3198.1 | 3497.6 | 3810.3 | 3997.2 | 3691.4 | 3378.0 | 3037.0 | 2821.8 | 2803.4 |
| 67.5° | 2730.2 | 2773.7 | 3020.9 | 3487.1 | 4133.2 | 4534.3 | 3916.4 | 3283.1 | 2818.2 | 2580.3 | 2559.9 |
| 70° | 2097.9 | 2161.2 | 2446.2 | 3050.2 | 4077.6 | 4707.2 | 3775.4 | 2874.2 | 2349.7 | 2093.6 | 2065.0 |
| 72.5° | 1150.9 | 1177.0 | 1433.3 | 2088.7 | 3269.0 | 4000.1 | 3149.0 | 2125.3 | 1558.2 | 1267.9 | 1219.8 |
| 75° | 365.1 | 374.3 | 504.8 | 854.7 | 1849.2 | 2649.5 | 2000.4 | 1043.2 | 574.3 | 423.4 | 418.5 |
| 77.5° | 162.1 | 163.1 | 182.5 | 249.4 | 636.9 | 1342.4 | 765.1 | 284.0 | 195.7 | 171.0 | 176.6 |
| 80° | 102.5 | 102.5 | 113.0 | 123.6 | 173.3 | 389.8 | 206.9 | 135.1 | 115.3 | 107.1 | 109.4 |
| 82.5° | 49.1 | 54.4 | 73.5 | 79.1 | 95.2 | 131.1 | 106.1 | 88.3 | 77.1 | 57.3 | 53.4 |
| 85° | 32.3 | 27.0 | 46.5 | 52.4 | 55.4 | 62.9 | 61.6 | 58.3 | 50.4 | 28.7 | 32.0 |
| 87.5° | 14.5 | 13.8 | 24.1 | 22.1 | 20.8 | 15.8 | 23.7 | 29.3 | 28.3 | 14.2 | 14.2 |
| 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)