

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: McGRAW-EDISON

Report Number: P630984

Luminaire Tested: GWS-SA1E-827-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-827-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 2700K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4671.3 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

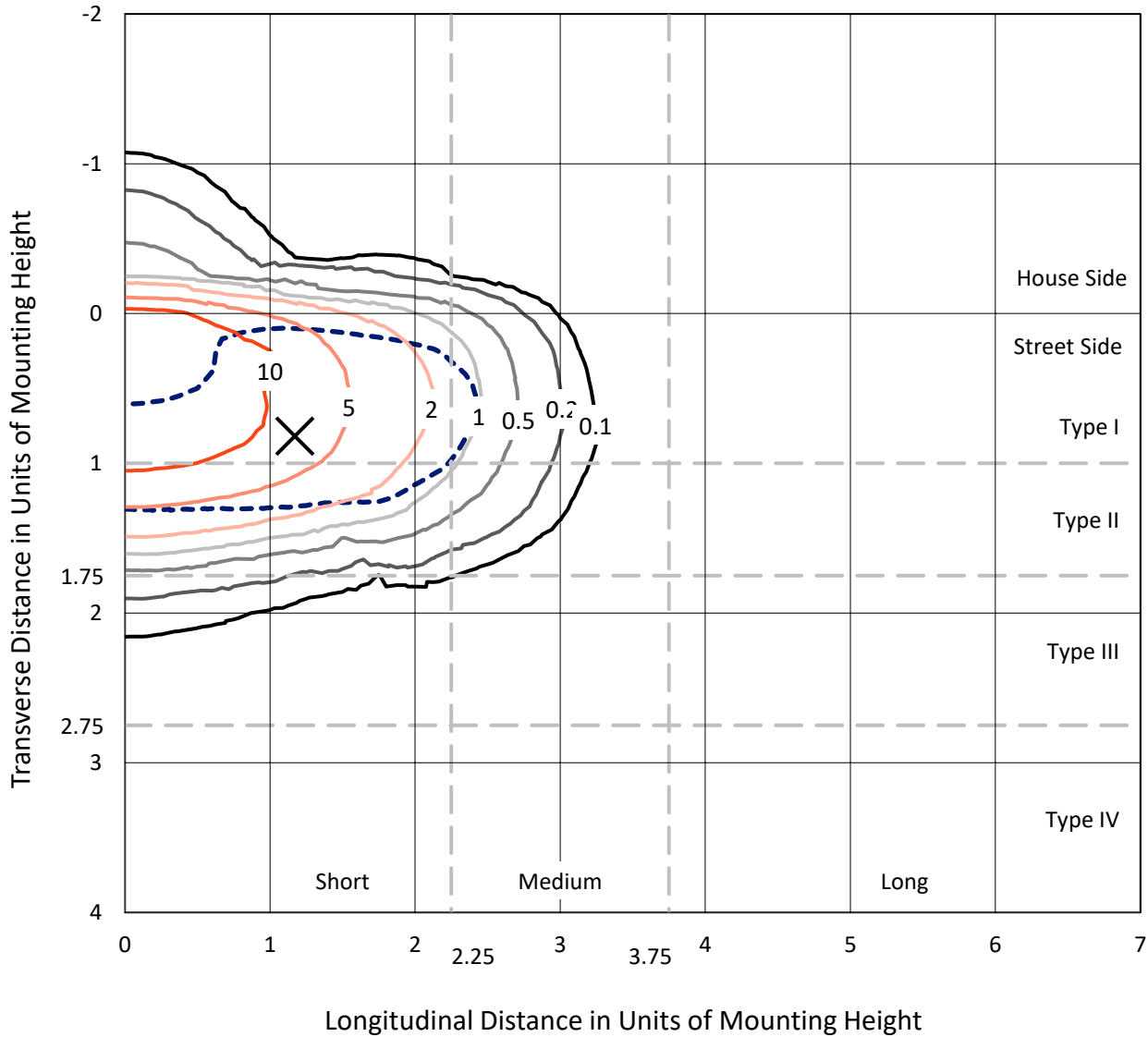
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

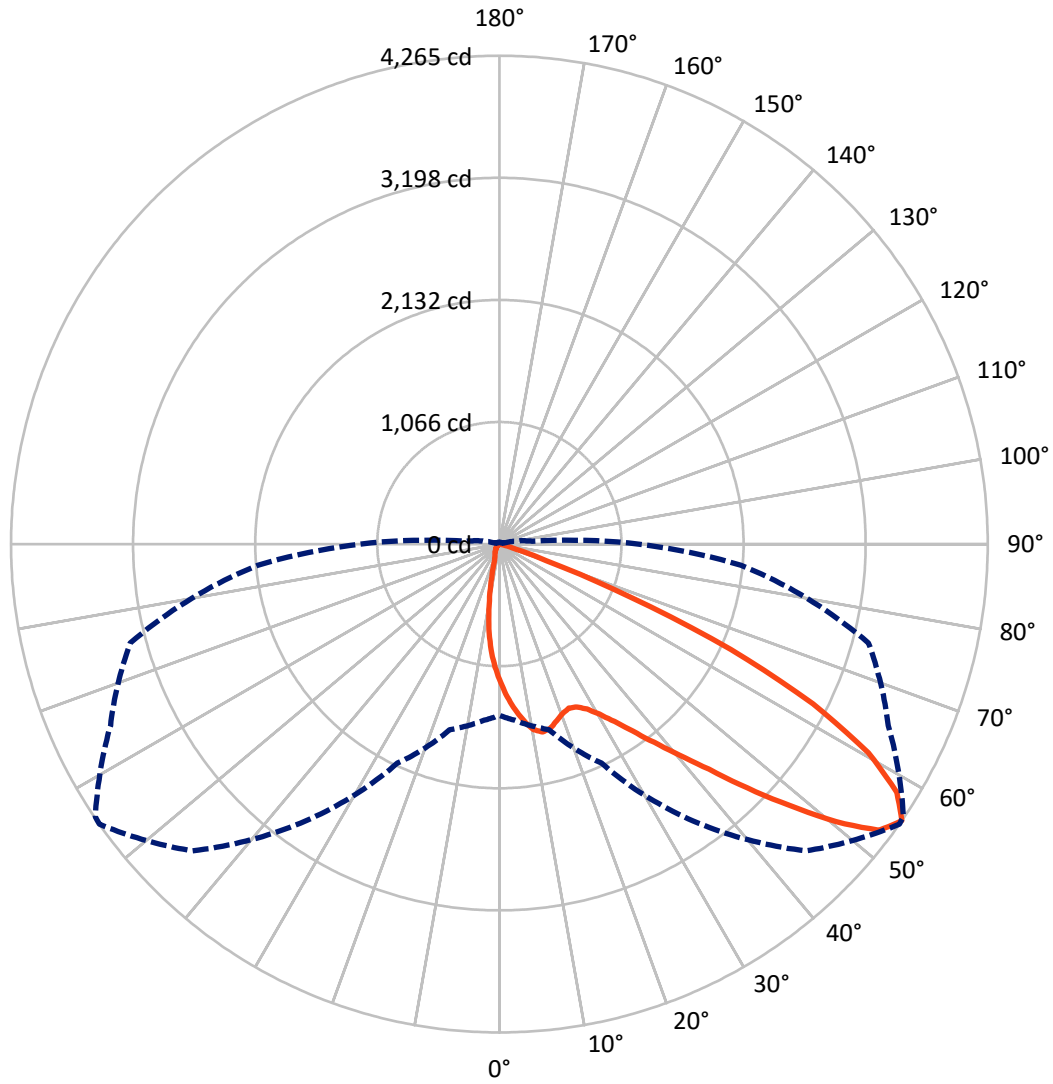
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 288.3 | 0.0 | 288.3 |
| | % Fixture | 6.2 | 0.0 | 6.2 |
| Street Side | Lumens | 4383.1 | 0.0 | 4383.1 |
| | % Fixture | 93.8 | 0.0 | 93.8 |
| Total | Lumens | 4671.3 | 0.0 | 4671.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 106.7 | 2.3 |
| 10°-20° | 257.1 | 5.5 |
| 20°-30° | 428.2 | 9.2 |
| 30°-40° | 729.7 | 15.6 |
| 40°-50° | 1191.1 | 25.5 |
| 50°-60° | 1247.1 | 26.7 |
| 60°-70° | 629.0 | 13.5 |
| 70°-80° | 79.5 | 1.7 |
| 80°-90° | 3.0 | 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° | 4671.3 | 100.0 |
| 0°-180° | 4671.3 | 100.0 |

Coefficient of Utilization



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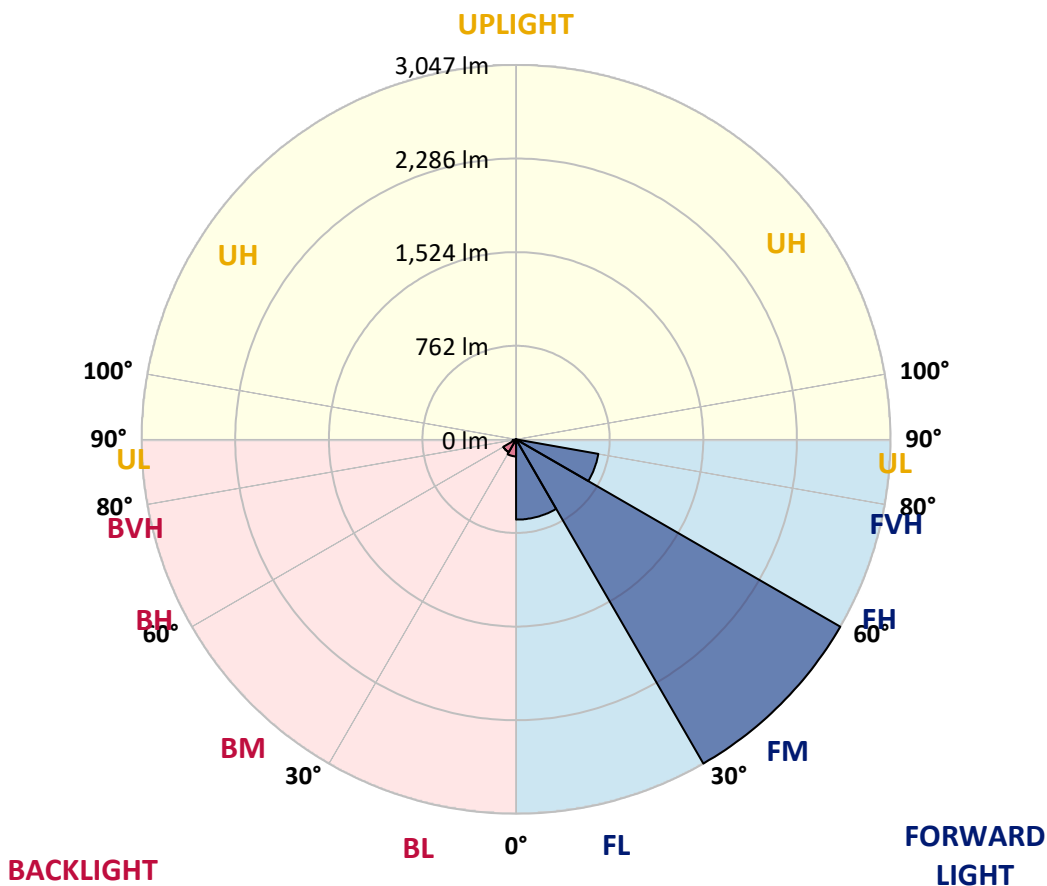
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 653.4 | 14.0 | | | |
| FM (30°-60°) | 3047.3 | 65.2 | | | |
| FH (60°-80°) | 679.5 | 14.5 | | | G1/1800 |
| FVH (80°-90°) | 2.7 | 0.1 | | | G0/10 |
| BL (0°-30°) | 138.5 | 3.0 | B1/500 | | |
| BM (30°-60°) | 120.5 | 2.6 | B0/220 | | |
| BH (60°-80°) | 28.9 | 0.6 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.3 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1206.8 | 1206.8 | 1206.8 | 1206.8 | 1206.8 | 1206.8 | 1206.8 | 1206.8 | 1206.8 | 1206.8 | 1206.8 |
| 2.5° | 1406.9 | 1400.1 | 1410.5 | 1398.5 | 1378.1 | 1360.9 | 1338.6 | 1330.6 | 1294.6 | 1260.7 | 1228.0 |
| 5° | 1577.8 | 1579.8 | 1576.6 | 1559.8 | 1531.1 | 1499.1 | 1454.0 | 1444.0 | 1381.3 | 1316.6 | 1246.7 |
| 7.5° | 1620.1 | 1618.9 | 1625.7 | 1632.1 | 1627.3 | 1611.3 | 1562.2 | 1552.2 | 1474.3 | 1377.3 | 1275.5 |
| 10° | 1489.5 | 1490.3 | 1504.3 | 1547.4 | 1600.9 | 1656.4 | 1648.9 | 1643.3 | 1567.0 | 1446.0 | 1307.4 |
| 12.5° | 1305.0 | 1312.2 | 1327.0 | 1388.5 | 1479.1 | 1605.3 | 1683.6 | 1689.2 | 1652.0 | 1521.5 | 1345.0 |
| 15° | 1225.2 | 1226.8 | 1238.7 | 1275.9 | 1343.4 | 1499.1 | 1668.8 | 1684.4 | 1723.1 | 1597.3 | 1385.7 |
| 17.5° | 1223.2 | 1225.2 | 1230.4 | 1246.7 | 1290.7 | 1415.6 | 1621.3 | 1648.5 | 1776.6 | 1678.8 | 1434.4 |
| 20° | 1298.2 | 1297.0 | 1293.4 | 1284.7 | 1303.8 | 1388.1 | 1577.4 | 1607.3 | 1805.8 | 1758.3 | 1483.5 |
| 22.5° | 1434.4 | 1432.8 | 1416.8 | 1380.5 | 1364.9 | 1413.2 | 1555.8 | 1583.0 | 1823.4 | 1829.0 | 1523.9 |
| 25° | 1591.3 | 1602.5 | 1572.6 | 1517.5 | 1479.1 | 1477.5 | 1575.0 | 1594.1 | 1838.5 | 1891.6 | 1551.4 |
| 27.5° | 1763.5 | 1767.1 | 1741.5 | 1679.6 | 1624.1 | 1580.6 | 1630.5 | 1644.9 | 1855.3 | 1947.6 | 1567.0 |
| 30° | 1952.3 | 1951.2 | 1922.0 | 1850.1 | 1782.6 | 1719.9 | 1723.9 | 1729.5 | 1894.4 | 2011.5 | 1584.2 |
| 32.5° | 2188.4 | 2193.5 | 2141.6 | 2043.8 | 1962.7 | 1876.1 | 1846.1 | 1846.9 | 1965.1 | 2093.7 | 1610.1 |
| 35° | 2509.0 | 2496.2 | 2427.6 | 2288.2 | 2150.0 | 2056.6 | 2005.5 | 2001.1 | 2074.1 | 2204.3 | 1655.2 |
| 37.5° | 2814.5 | 2815.7 | 2743.8 | 2590.5 | 2416.0 | 2268.6 | 2196.3 | 2184.4 | 2227.5 | 2357.7 | 1730.3 |
| 40° | 3026.6 | 3030.6 | 3000.6 | 2920.3 | 2735.4 | 2527.0 | 2420.8 | 2408.4 | 2426.4 | 2551.8 | 1828.6 |
| 42.5° | 3138.8 | 3150.0 | 3158.3 | 3177.1 | 3036.9 | 2849.7 | 2686.3 | 2685.1 | 2666.4 | 2773.0 | 1942.4 |
| 45° | 3143.2 | 3159.9 | 3211.1 | 3339.2 | 3355.2 | 3217.8 | 3040.1 | 3013.4 | 2941.1 | 3009.8 | 2044.2 |
| 47.5° | 2969.5 | 3008.2 | 3116.8 | 3370.8 | 3538.5 | 3584.0 | 3407.9 | 3391.6 | 3188.7 | 3197.1 | 2120.5 |
| 50° | 2564.5 | 2604.9 | 2804.9 | 3209.1 | 3584.8 | 3874.7 | 3811.7 | 3777.7 | 3395.5 | 3320.9 | 2157.2 |
| 52.5° | 2149.2 | 2186.0 | 2321.7 | 2824.1 | 3392.8 | 3966.2 | 4151.9 | 4111.6 | 3581.2 | 3364.0 | 2142.0 |
| 55° | 1495.5 | 1544.6 | 1677.2 | 2110.9 | 2950.3 | 3788.1 | 4264.5 | 4256.1 | 3747.0 | 3336.8 | 2118.5 |
| 57.5° | 733.2 | 781.9 | 914.1 | 1301.4 | 2185.6 | 3307.3 | 4092.4 | 4136.7 | 3846.0 | 3307.7 | 2099.3 |
| 60° | 306.3 | 326.3 | 371.8 | 571.0 | 1222.8 | 2499.4 | 3703.8 | 3765.3 | 3785.3 | 3268.2 | 2097.3 |
| 62.5° | 177.7 | 180.9 | 185.7 | 236.8 | 475.6 | 1432.8 | 3072.5 | 3159.9 | 3466.2 | 3215.8 | 2065.8 |
| 65° | 134.2 | 135.4 | 133.4 | 145.4 | 196.5 | 543.5 | 2219.9 | 2338.9 | 2893.2 | 3011.4 | 1941.2 |
| 67.5° | 110.2 | 110.2 | 105.0 | 107.4 | 123.4 | 203.7 | 1225.6 | 1391.7 | 2140.8 | 2475.1 | 1602.9 |
| 70° | 87.9 | 89.9 | 87.5 | 84.3 | 88.3 | 112.6 | 436.1 | 540.7 | 1246.7 | 1461.6 | 934.8 |
| 72.5° | 66.7 | 66.7 | 70.7 | 68.3 | 65.5 | 70.7 | 152.1 | 170.9 | 500.4 | 609.4 | 337.4 |
| 75° | 51.5 | 53.1 | 55.9 | 53.5 | 49.5 | 41.9 | 73.1 | 77.5 | 150.9 | 141.8 | 75.5 |
| 77.5° | 26.4 | 26.8 | 35.5 | 39.1 | 36.7 | 25.6 | 31.9 | 35.1 | 49.1 | 43.9 | 28.0 |
| 80° | 16.0 | 16.8 | 20.0 | 30.7 | 24.4 | 13.6 | 13.2 | 14.0 | 23.2 | 20.0 | 11.6 |
| 82.5° | 6.8 | 7.2 | 11.2 | 11.2 | 10.0 | 5.2 | 5.2 | 5.2 | 11.2 | 10.4 | 4.8 |
| 85° | 0.0 | 0.0 | 2.0 | 1.6 | 1.6 | 2.0 | 2.0 | 2.0 | 2.8 | 4.0 | 2.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 1.2 | 1.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1206.8 | 1206.8 | 1206.8 | 1206.8 | 1206.8 | 1206.8 | 1206.8 | 1206.8 | 1206.8 | 1206.8 | 1206.8 |
| 2.5° | 1206.8 | 1181.2 | 1146.9 | 1115.7 | 1073.8 | 1050.3 | 1017.5 | 990.8 | 968.0 | 960.8 | 957.6 |
| 5° | 1207.2 | 1163.3 | 1089.8 | 1016.3 | 926.1 | 855.0 | 781.9 | 724.0 | 676.5 | 661.3 | 657.3 |
| 7.5° | 1215.2 | 1150.5 | 1031.5 | 898.1 | 747.2 | 622.6 | 511.1 | 411.3 | 365.0 | 349.4 | 346.2 |
| 10° | 1226.0 | 1139.7 | 964.0 | 756.3 | 539.5 | 379.4 | 268.8 | 204.9 | 174.5 | 157.7 | 160.1 |
| 12.5° | 1239.9 | 1130.9 | 889.3 | 603.0 | 357.0 | 208.5 | 147.8 | 123.8 | 117.4 | 114.2 | 112.6 |
| 15° | 1258.7 | 1120.5 | 796.7 | 450.8 | 218.8 | 134.2 | 113.8 | 107.4 | 105.0 | 103.4 | 103.0 |
| 17.5° | 1277.9 | 1108.6 | 702.4 | 317.1 | 145.4 | 111.4 | 102.2 | 99.0 | 97.4 | 96.2 | 95.8 |
| 20° | 1298.2 | 1088.2 | 591.8 | 218.4 | 114.6 | 100.2 | 94.2 | 90.6 | 88.7 | 86.7 | 86.3 |
| 22.5° | 1307.0 | 1055.4 | 486.0 | 152.9 | 101.8 | 92.2 | 84.7 | 80.3 | 77.9 | 76.3 | 76.3 |
| 25° | 1298.6 | 1002.3 | 376.6 | 116.2 | 92.6 | 83.5 | 75.9 | 71.1 | 69.1 | 67.5 | 67.5 |
| 27.5° | 1276.3 | 934.0 | 274.7 | 96.2 | 82.7 | 74.3 | 67.1 | 62.7 | 61.1 | 60.3 | 60.3 |
| 30° | 1251.5 | 847.8 | 193.7 | 82.7 | 71.5 | 64.7 | 58.7 | 55.9 | 55.5 | 54.7 | 54.7 |
| 32.5° | 1230.4 | 767.1 | 133.4 | 72.7 | 63.1 | 56.3 | 52.3 | 51.1 | 51.5 | 50.7 | 51.1 |
| 35° | 1218.8 | 688.1 | 99.0 | 64.7 | 56.3 | 49.9 | 47.9 | 47.9 | 47.9 | 47.5 | 47.5 |
| 37.5° | 1223.6 | 610.2 | 80.7 | 59.1 | 50.3 | 45.5 | 43.5 | 44.3 | 45.1 | 45.1 | 45.1 |
| 40° | 1247.5 | 541.1 | 71.5 | 53.9 | 45.1 | 41.5 | 39.9 | 41.1 | 42.3 | 43.1 | 43.1 |
| 42.5° | 1277.9 | 485.2 | 64.7 | 49.5 | 41.5 | 37.5 | 36.7 | 37.9 | 39.1 | 39.9 | 39.9 |
| 45° | 1297.0 | 428.9 | 57.9 | 43.9 | 37.9 | 33.1 | 33.1 | 34.7 | 34.3 | 34.7 | 34.7 |
| 47.5° | 1305.8 | 384.2 | 51.1 | 37.9 | 32.3 | 28.8 | 29.2 | 30.0 | 29.2 | 30.0 | 30.0 |
| 50° | 1284.3 | 339.0 | 45.1 | 31.5 | 26.8 | 25.2 | 26.0 | 25.6 | 25.6 | 27.2 | 27.2 |
| 52.5° | 1244.7 | 305.5 | 39.9 | 26.8 | 22.8 | 22.4 | 23.2 | 21.6 | 22.0 | 22.0 | 21.6 |
| 55° | 1215.6 | 286.3 | 35.5 | 23.2 | 19.6 | 20.0 | 19.6 | 16.8 | 15.2 | 13.6 | 13.2 |
| 57.5° | 1201.2 | 278.7 | 32.3 | 20.8 | 17.6 | 17.6 | 16.0 | 11.6 | 8.8 | 6.8 | 6.0 |
| 60° | 1198.0 | 269.6 | 29.2 | 18.0 | 15.6 | 14.8 | 11.6 | 6.8 | 4.4 | 3.2 | 2.8 |
| 62.5° | 1167.7 | 247.2 | 26.4 | 14.4 | 13.6 | 12.0 | 7.2 | 4.0 | 2.4 | 1.6 | 1.2 |
| 65° | 1068.2 | 203.3 | 23.6 | 11.2 | 10.4 | 8.8 | 4.4 | 2.4 | 1.2 | 0.4 | 0.0 |
| 67.5° | 849.8 | 144.2 | 20.8 | 8.4 | 7.2 | 5.6 | 2.8 | 1.6 | 0.4 | 0.0 | 0.0 |
| 70° | 490.0 | 77.9 | 17.2 | 6.0 | 4.8 | 3.6 | 2.0 | 0.8 | 0.0 | 0.0 | 0.0 |
| 72.5° | 163.7 | 36.3 | 13.2 | 4.0 | 3.6 | 2.8 | 1.2 | 0.4 | 0.0 | 0.0 | 0.0 |
| 75° | 35.9 | 21.6 | 8.8 | 2.8 | 2.4 | 2.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 13.6 | 15.2 | 4.4 | 2.0 | 1.6 | 1.2 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 5.2 | 10.0 | 2.0 | 1.2 | 1.2 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 2.8 | 4.0 | 1.2 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 1.6 | 2.0 | 0.8 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.8 | 0.4 | 0.4 | 0.4 | 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)