

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: P527463

Luminaire Tested: **GALN-SA2C-727-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-727-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7061 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

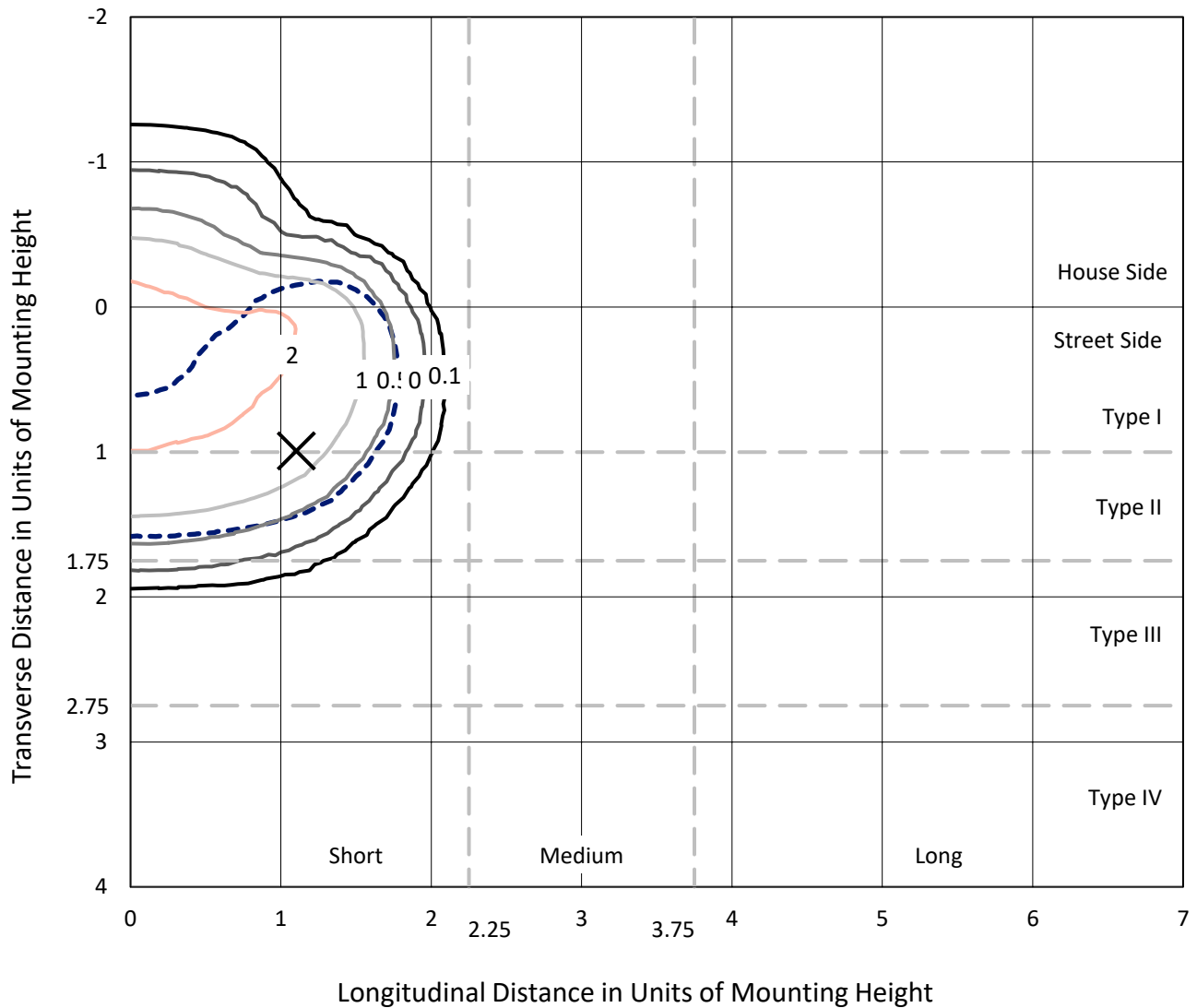
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

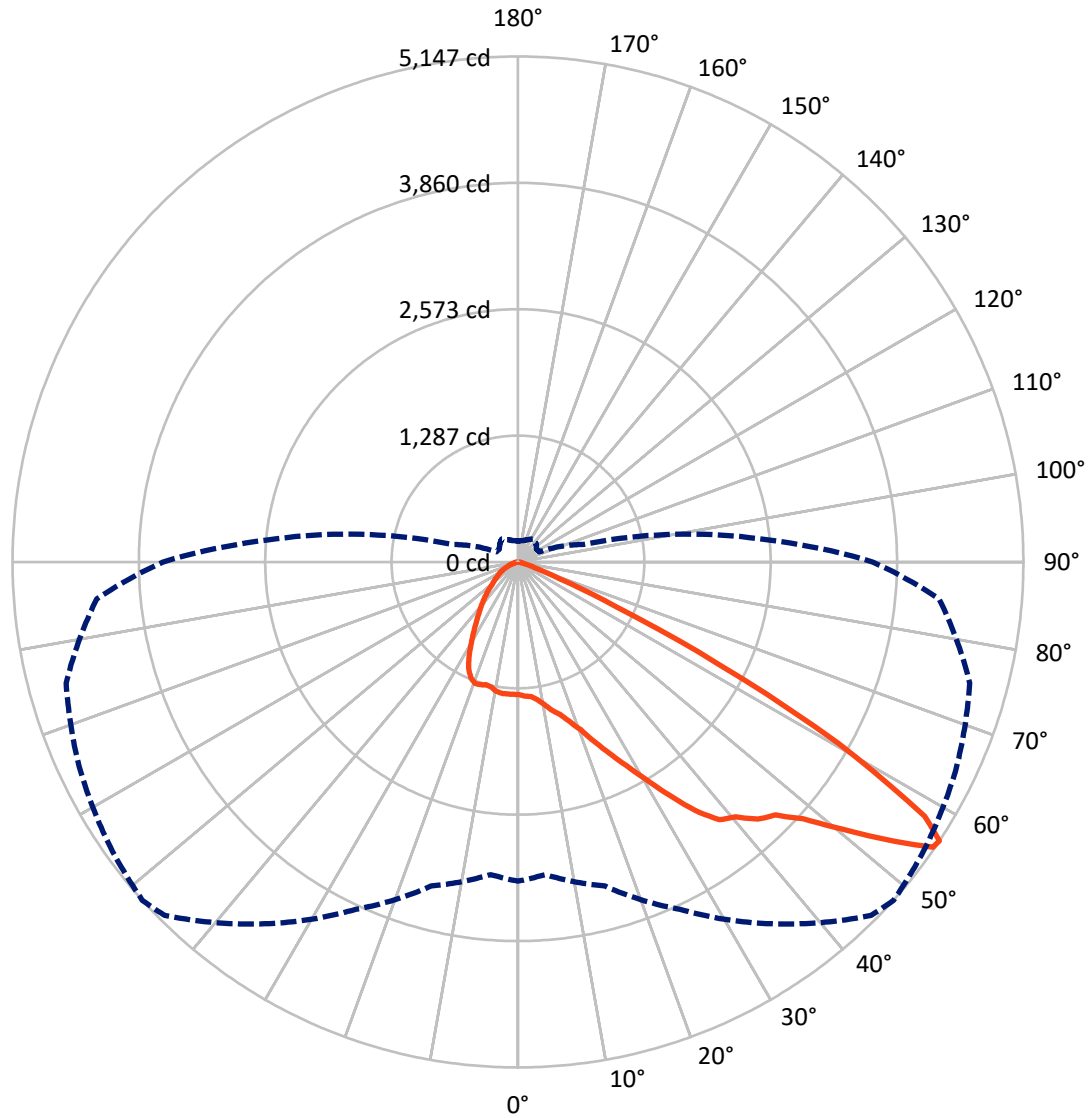
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1535.6 | 0.0 | 1535.6 |
| | % Fixture | 21.7 | 0.0 | 21.7 |
| Street Side | Lumens | 5525.4 | 0.0 | 5525.4 |
| | % Fixture | 78.3 | 0.0 | 78.3 |
| Total | Lumens | 7061.0 | 0.0 | 7061.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 131.4 | 1.9 |
| 10°-20° | 419.8 | 5.9 |
| 20°-30° | 761.5 | 10.8 |
| 30°-40° | 1196.2 | 16.9 |
| 40°-50° | 1745.0 | 24.7 |
| 50°-60° | 2102.4 | 29.8 |
| 60°-70° | 615.6 | 8.7 |
| 70°-80° | 78.1 | 1.1 |
| 80°-90° | 11.0 | 0.2 |
| 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° | 7061.0 | 100.0 |
| 0°-180° | 7061.0 | 100.0 |

Coefficient of Utilization

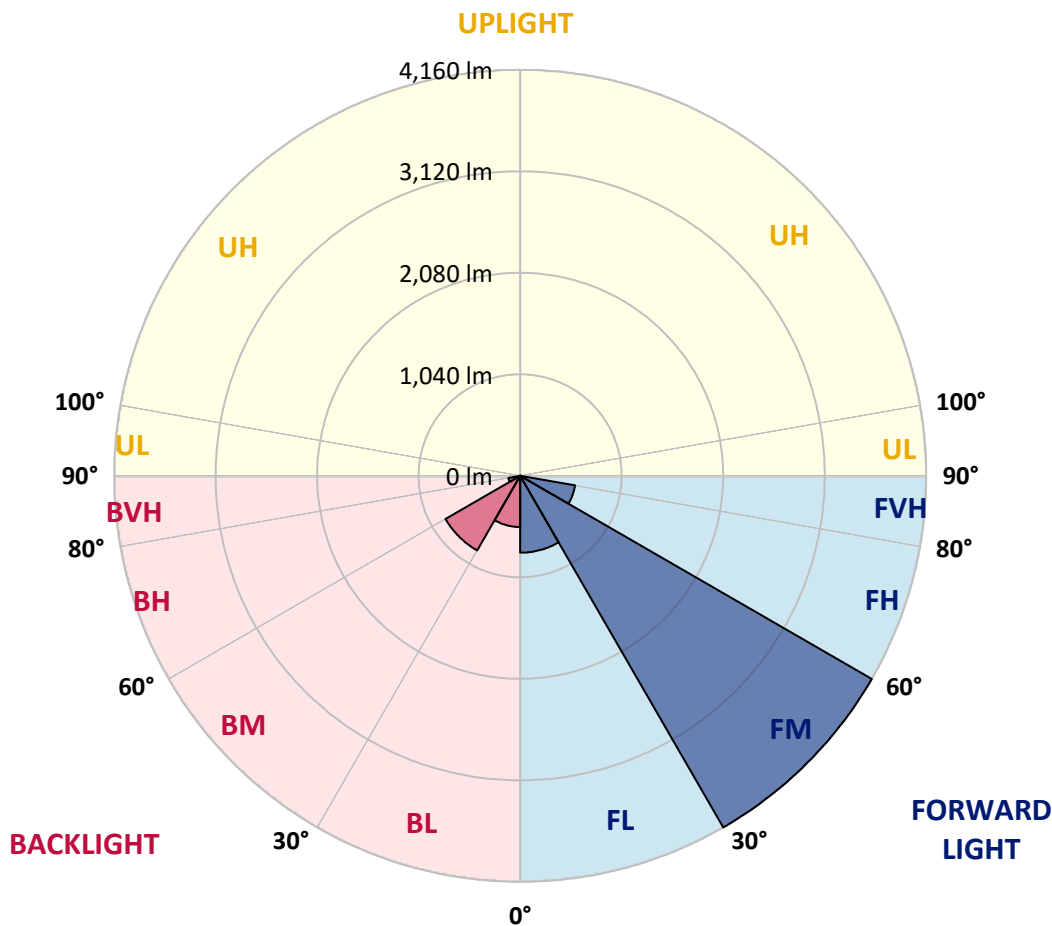


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 787.9 | 11.2 | | | |
| FM (30°-60°) | 4160.4 | 58.9 | | | |
| FH (60°-80°) | 571.6 | 8.1 | | | G0/660 |
| FVH (80°-90°) | 5.5 | 0.1 | | | G0/10 |
| BL (0°-30°) | 524.9 | 7.4 | B2/1000 | | |
| BM (30°-60°) | 883.3 | 12.5 | B1/1000 | | |
| BH (60°-80°) | 122.0 | 1.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.5 | 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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 48° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1348.7 | 1348.7 | 1348.7 | 1348.7 | 1348.7 | 1348.7 | 1348.7 | 1348.7 | 1348.7 | 1348.7 | 1348.7 |
| 2.5° | 1373.1 | 1366.7 | 1366.7 | 1356.4 | 1367.9 | 1362.8 | 1366.7 | 1353.8 | 1366.7 | 1347.4 | 1362.8 |
| 5° | 1379.5 | 1380.8 | 1375.7 | 1382.1 | 1382.1 | 1389.8 | 1376.9 | 1388.5 | 1394.9 | 1380.8 | 1374.4 |
| 7.5° | 1412.9 | 1415.5 | 1414.2 | 1409.1 | 1419.4 | 1418.1 | 1416.8 | 1407.8 | 1410.4 | 1405.2 | 1397.5 |
| 10° | 1478.5 | 1477.2 | 1483.6 | 1470.8 | 1463.1 | 1472.1 | 1474.6 | 1460.5 | 1450.2 | 1446.4 | 1421.9 |
| 12.5° | 1573.6 | 1558.2 | 1549.2 | 1536.4 | 1540.2 | 1527.4 | 1550.5 | 1526.1 | 1520.9 | 1497.8 | 1473.4 |
| 15° | 1650.8 | 1648.2 | 1649.5 | 1628.9 | 1605.8 | 1610.9 | 1610.9 | 1598.1 | 1590.4 | 1562.1 | 1527.4 |
| 17.5° | 1808.9 | 1754.9 | 1766.5 | 1740.8 | 1721.5 | 1720.2 | 1708.6 | 1711.2 | 1690.6 | 1631.5 | 1578.8 |
| 20° | 1932.3 | 1909.2 | 1891.2 | 1847.5 | 1817.9 | 1826.9 | 1821.8 | 1808.9 | 1802.5 | 1725.4 | 1650.8 |
| 22.5° | 2042.9 | 2050.6 | 2021.1 | 2009.5 | 1968.3 | 1972.2 | 1982.5 | 1970.9 | 1922.1 | 1842.3 | 1731.8 |
| 25° | 2198.5 | 2189.5 | 2149.6 | 2135.5 | 2096.9 | 2111.0 | 2150.9 | 2141.9 | 2111.0 | 1967.1 | 1794.8 |
| 27.5° | 2382.3 | 2351.5 | 2359.2 | 2294.9 | 2257.6 | 2297.5 | 2345.0 | 2390.0 | 2302.6 | 2113.6 | 1869.3 |
| 30° | 2512.2 | 2480.0 | 2477.5 | 2474.9 | 2465.9 | 2512.2 | 2567.5 | 2608.6 | 2537.9 | 2260.2 | 1992.8 |
| 32.5° | 2576.5 | 2584.2 | 2606.0 | 2598.3 | 2676.7 | 2771.9 | 2829.7 | 2888.9 | 2800.2 | 2499.3 | 2156.0 |
| 35° | 2747.4 | 2698.6 | 2747.4 | 2752.6 | 2833.6 | 3035.4 | 3108.7 | 3250.1 | 3228.3 | 2837.4 | 2355.3 |
| 37.5° | 2847.7 | 2843.9 | 2850.3 | 2899.2 | 2977.6 | 3227.0 | 3331.1 | 3440.4 | 3399.3 | 3040.6 | 2603.5 |
| 40° | 3013.6 | 3023.9 | 3022.6 | 3059.9 | 3146.0 | 3371.0 | 3413.4 | 3502.1 | 3506.0 | 3322.1 | 2968.6 |
| 42.5° | 3279.7 | 3238.6 | 3211.6 | 3250.1 | 3371.0 | 3495.7 | 3580.6 | 3562.6 | 3689.8 | 3664.1 | 3437.8 |
| 45° | 3518.8 | 3543.3 | 3503.4 | 3567.7 | 3611.4 | 3678.3 | 3675.7 | 3714.3 | 3876.3 | 3998.4 | 3791.4 |
| 47.5° | 3742.5 | 3758.0 | 3777.3 | 3821.0 | 3916.1 | 3926.4 | 3904.5 | 3887.8 | 4111.5 | 4237.5 | 4065.2 |
| 50° | 3876.3 | 3890.4 | 3980.4 | 4058.8 | 4236.2 | 4259.4 | 4272.2 | 4229.8 | 4381.5 | 4395.7 | 4323.7 |
| 52.5° | 3840.3 | 3855.7 | 3981.7 | 4240.1 | 4522.9 | 4735.1 | 4696.5 | 4624.5 | 4615.5 | 4670.8 | 4562.8 |
| 55° | 3521.4 | 3507.3 | 3680.8 | 4083.2 | 4612.9 | 5122.1 | 5127.2 | 5051.3 | 4906.1 | 4868.8 | 4526.8 |
| 56° | 3250.1 | 3194.9 | 3416.0 | 3902.0 | 4497.2 | 5088.6 | 5146.5 | 5065.5 | 4929.2 | 4762.1 | 4304.4 |
| 57.5° | 2662.6 | 2715.3 | 2935.2 | 3337.6 | 4097.4 | 4848.2 | 4881.6 | 4862.4 | 4759.5 | 4479.2 | 3787.5 |
| 60° | 1468.2 | 1560.8 | 1754.9 | 2247.3 | 2917.2 | 3720.7 | 3747.7 | 3904.5 | 3923.8 | 3430.1 | 2606.0 |
| 62.5° | 623.5 | 613.3 | 815.1 | 1177.7 | 1661.1 | 2246.0 | 2296.2 | 2456.9 | 2486.5 | 1977.3 | 1307.5 |
| 65° | 253.3 | 267.4 | 369.0 | 592.7 | 878.1 | 1023.4 | 1094.1 | 1146.8 | 1244.5 | 816.4 | 482.1 |
| 67.5° | 167.1 | 165.8 | 217.3 | 338.1 | 473.1 | 456.4 | 456.4 | 482.1 | 446.1 | 333.0 | 208.3 |
| 70° | 119.6 | 123.4 | 155.6 | 234.0 | 294.4 | 218.6 | 209.6 | 200.6 | 227.6 | 219.8 | 168.4 |
| 72.5° | 78.4 | 83.6 | 104.1 | 140.1 | 153.0 | 119.6 | 119.6 | 144.0 | 187.7 | 177.4 | 137.6 |
| 75° | 51.4 | 52.7 | 64.3 | 81.0 | 75.9 | 61.7 | 68.1 | 96.4 | 136.3 | 131.1 | 97.7 |
| 77.5° | 34.7 | 36.0 | 43.7 | 52.7 | 42.4 | 34.7 | 37.3 | 48.9 | 66.9 | 66.9 | 51.4 |
| 80° | 12.9 | 14.1 | 18.0 | 16.7 | 19.3 | 24.4 | 27.0 | 33.4 | 39.9 | 39.9 | 34.7 |
| 82.5° | 0.0 | 1.3 | 3.9 | 9.0 | 14.1 | 19.3 | 21.9 | 25.7 | 29.6 | 33.4 | 32.1 |
| 85° | 0.0 | 1.3 | 3.9 | 6.4 | 10.3 | 11.6 | 12.9 | 9.0 | 7.7 | 7.7 | 6.4 |
| 87.5° | 0.0 | 0.0 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 2.6 | 1.3 | 1.3 |
| 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° | 1348.7 | 1348.7 | 1348.7 | 1348.7 | 1348.7 | 1348.7 | 1348.7 | 1348.7 | 1348.7 | 1348.7 | 1348.7 |
| 2.5° | 1348.7 | 1347.4 | 1347.4 | 1343.5 | 1351.2 | 1347.4 | 1349.9 | 1348.7 | 1331.9 | 1344.8 | 1335.8 |
| 5° | 1362.8 | 1371.8 | 1357.7 | 1355.1 | 1344.8 | 1348.7 | 1348.7 | 1335.8 | 1347.4 | 1346.1 | 1343.5 |
| 7.5° | 1398.8 | 1383.4 | 1367.9 | 1352.5 | 1349.9 | 1346.1 | 1331.9 | 1326.8 | 1335.8 | 1325.5 | 1340.9 |
| 10° | 1414.2 | 1416.8 | 1393.7 | 1373.1 | 1353.8 | 1326.8 | 1307.5 | 1295.9 | 1281.8 | 1297.2 | 1306.2 |
| 12.5° | 1484.9 | 1459.2 | 1419.4 | 1387.2 | 1321.7 | 1294.7 | 1275.4 | 1270.2 | 1294.7 | 1299.8 | 1290.8 |
| 15° | 1509.4 | 1505.5 | 1454.1 | 1382.1 | 1313.9 | 1281.8 | 1285.7 | 1275.4 | 1277.9 | 1265.1 | 1267.7 |
| 17.5° | 1559.5 | 1515.8 | 1455.4 | 1365.4 | 1312.7 | 1304.9 | 1281.8 | 1240.7 | 1217.5 | 1207.2 | 1216.2 |
| 20° | 1614.8 | 1572.4 | 1484.9 | 1371.8 | 1324.2 | 1303.7 | 1227.8 | 1177.7 | 1130.1 | 1104.4 | 1105.7 |
| 22.5° | 1663.6 | 1610.9 | 1472.1 | 1374.4 | 1334.5 | 1249.7 | 1158.4 | 1059.4 | 1000.2 | 960.4 | 961.7 |
| 25° | 1722.8 | 1648.2 | 1477.2 | 1379.5 | 1307.5 | 1163.5 | 1032.4 | 936.0 | 865.2 | 838.2 | 847.2 |
| 27.5° | 1756.2 | 1671.4 | 1505.5 | 1391.1 | 1236.8 | 1041.4 | 900.0 | 810.0 | 768.8 | 756.0 | 754.7 |
| 30° | 1856.5 | 1722.8 | 1540.2 | 1367.9 | 1118.5 | 910.2 | 779.1 | 723.8 | 684.0 | 672.4 | 675.0 |
| 32.5° | 2005.6 | 1816.6 | 1585.2 | 1307.5 | 997.7 | 793.3 | 700.7 | 659.5 | 622.3 | 600.4 | 597.8 |
| 35° | 2130.3 | 1977.3 | 1632.8 | 1213.7 | 857.5 | 703.3 | 645.4 | 594.0 | 537.4 | 513.0 | 506.5 |
| 37.5° | 2368.2 | 2158.6 | 1622.5 | 1072.2 | 723.8 | 636.4 | 586.3 | 523.3 | 474.4 | 441.0 | 437.1 |
| 40° | 2684.5 | 2370.8 | 1572.4 | 900.0 | 624.8 | 577.3 | 523.3 | 462.8 | 402.4 | 374.1 | 371.6 |
| 42.5° | 3068.9 | 2630.5 | 1481.1 | 725.1 | 525.8 | 518.1 | 469.3 | 399.8 | 345.8 | 325.3 | 326.6 |
| 45° | 3381.3 | 2852.9 | 1388.5 | 582.4 | 452.6 | 460.3 | 417.8 | 352.3 | 315.0 | 298.3 | 298.3 |
| 47.5° | 3659.0 | 3003.3 | 1288.2 | 480.8 | 384.4 | 402.4 | 365.1 | 326.6 | 294.4 | 281.6 | 279.0 |
| 50° | 3926.4 | 3156.3 | 1187.9 | 389.6 | 327.8 | 345.8 | 342.0 | 311.1 | 285.4 | 270.0 | 271.3 |
| 52.5° | 4093.5 | 3180.7 | 1060.7 | 318.8 | 286.7 | 307.3 | 320.1 | 291.8 | 263.6 | 254.6 | 252.0 |
| 55° | 3889.1 | 2865.7 | 822.8 | 262.3 | 243.0 | 270.0 | 294.4 | 262.3 | 240.4 | 225.0 | 223.7 |
| 56° | 3614.0 | 2562.3 | 687.8 | 241.7 | 230.1 | 259.7 | 285.4 | 250.7 | 226.3 | 217.3 | 210.8 |
| 57.5° | 3059.9 | 2096.9 | 507.8 | 214.7 | 213.4 | 241.7 | 271.3 | 239.1 | 210.8 | 203.1 | 203.1 |
| 60° | 1907.9 | 1180.2 | 307.3 | 180.0 | 185.1 | 214.7 | 244.3 | 213.4 | 187.7 | 187.7 | 191.6 |
| 62.5° | 869.1 | 491.1 | 186.4 | 153.0 | 159.4 | 185.1 | 217.3 | 192.8 | 178.7 | 192.8 | 195.4 |
| 65° | 295.7 | 212.1 | 135.0 | 122.1 | 126.0 | 153.0 | 186.4 | 195.4 | 194.1 | 203.1 | 208.3 |
| 67.5° | 165.8 | 136.3 | 113.1 | 101.6 | 99.0 | 113.1 | 153.0 | 195.4 | 187.7 | 183.8 | 186.4 |
| 70° | 140.1 | 115.7 | 100.3 | 90.0 | 86.1 | 91.3 | 118.3 | 147.9 | 132.4 | 128.6 | 126.0 |
| 72.5° | 113.1 | 96.4 | 87.4 | 81.0 | 69.4 | 59.1 | 54.0 | 56.6 | 63.0 | 66.9 | 73.3 |
| 75° | 79.7 | 73.3 | 73.3 | 65.6 | 50.1 | 37.3 | 29.6 | 24.4 | 16.7 | 11.6 | 12.9 |
| 77.5° | 45.0 | 45.0 | 46.3 | 39.9 | 32.1 | 24.4 | 18.0 | 12.9 | 6.4 | 2.6 | 1.3 |
| 80° | 30.9 | 33.4 | 36.0 | 32.1 | 27.0 | 21.9 | 15.4 | 9.0 | 3.9 | 0.0 | 0.0 |
| 82.5° | 30.9 | 34.7 | 37.3 | 32.1 | 27.0 | 20.6 | 15.4 | 9.0 | 3.9 | 1.3 | 0.0 |
| 85° | 6.4 | 7.7 | 9.0 | 10.3 | 15.4 | 15.4 | 11.6 | 7.7 | 3.9 | 1.3 | 0.0 |
| 87.5° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 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)