

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: P527930

Luminaire Tested: **GALN-SA3A-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-727-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10033 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

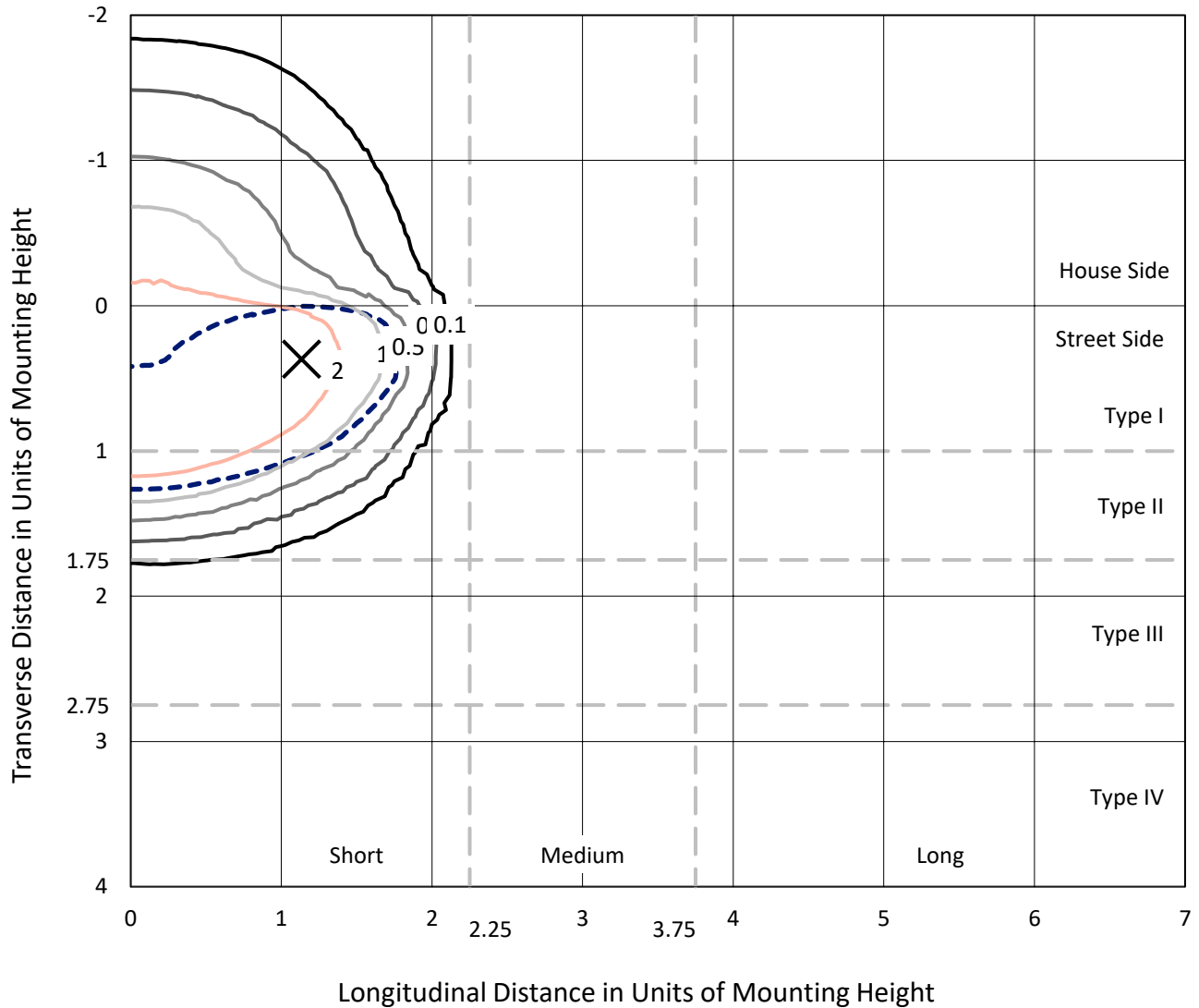
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

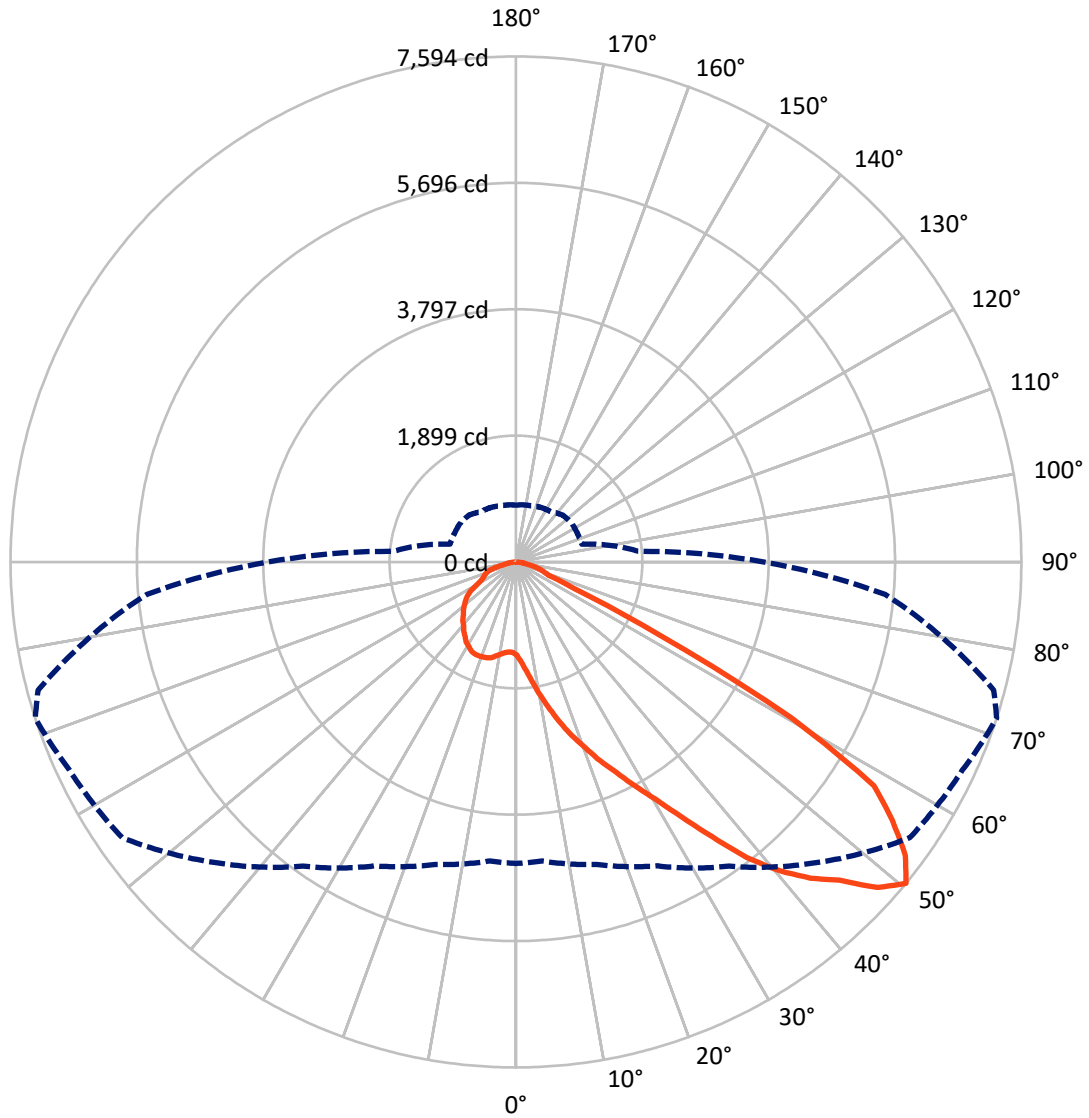
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2298.6 | 0.0 | 2298.6 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 7734.4 | 0.0 | 7734.4 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 10033.0 | 0.0 | 10033.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 164.3 | 1.6 |
| 10°-20° | 614.2 | 6.1 |
| 20°-30° | 1190.8 | 11.9 |
| 30°-40° | 1972.7 | 19.7 |
| 40°-50° | 2760.3 | 27.5 |
| 50°-60° | 2328.7 | 23.2 |
| 60°-70° | 709.8 | 7.1 |
| 70°-80° | 249.0 | 2.5 |
| 80°-90° | 43.3 | 0.4 |
| 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° | 10033.0 | 100.0 |
| 0°-180° | 10033.0 | 100.0 |

Coefficient of Utilization

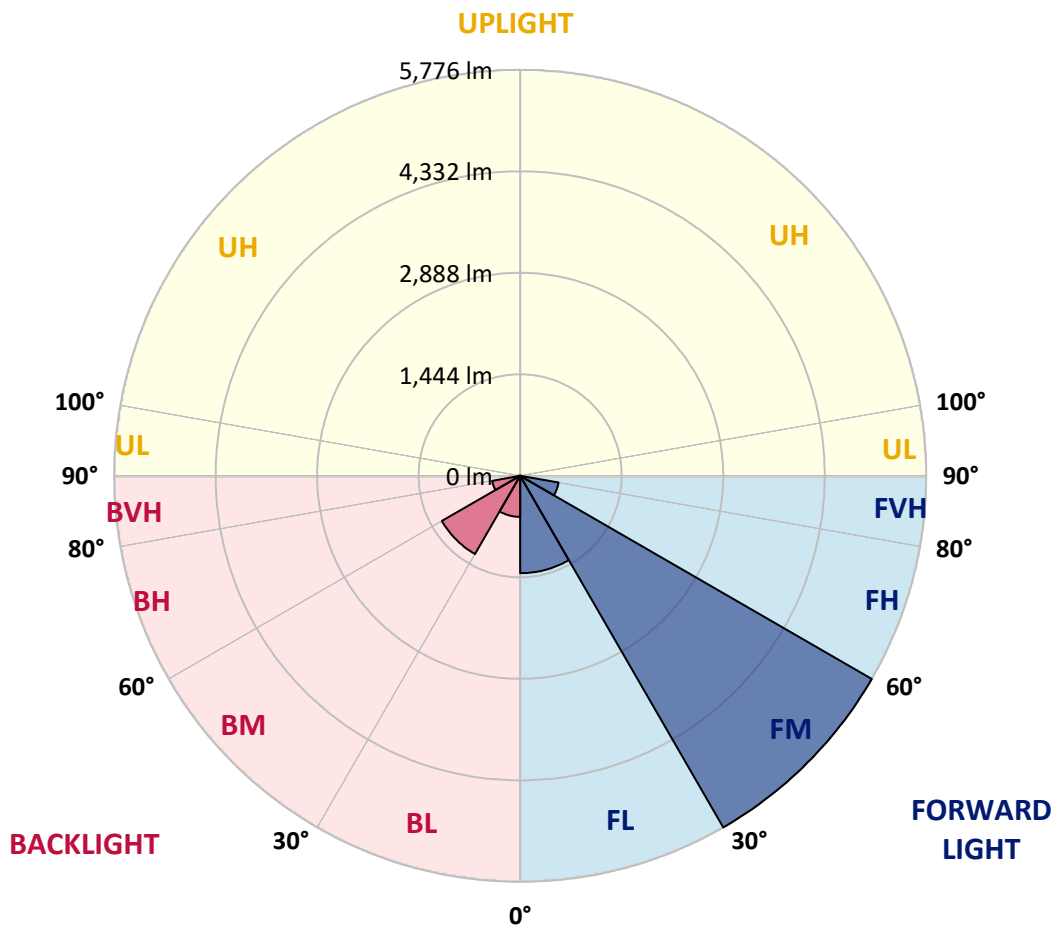


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1384.9 | 13.8 | | | |
| FM (30°-60°) | 5776.3 | 57.6 | | | |
| FH (60°-80°) | 553.8 | 5.5 | | | G0/660 |
| FVH (80°-90°) | 19.4 | 0.2 | | | G1/100 |
| BL (0°-30°) | 584.3 | 5.8 | B2/1000 | | |
| BM (30°-60°) | 1285.4 | 12.8 | B2/2500 | | |
| BH (60°-80°) | 405.0 | 4.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 23.9 | 0.2 | | | G1/100 |
| 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° | 55° | 65° | 72° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 |
| 2.5° | 1796.4 | 1785.3 | 1751.7 | 1740.6 | 1700.8 | 1628.8 | 1604.0 | 1530.8 | 1499.7 | 1471.2 | 1437.6 |
| 5° | 2271.9 | 2219.8 | 2216.1 | 2152.7 | 2060.9 | 2007.5 | 1848.6 | 1741.8 | 1643.7 | 1594.1 | 1502.2 |
| 7.5° | 2574.9 | 2576.1 | 2576.1 | 2524.0 | 2450.7 | 2315.4 | 2172.6 | 1980.2 | 1832.4 | 1759.2 | 1602.8 |
| 10° | 2862.9 | 2838.1 | 2824.4 | 2819.4 | 2769.8 | 2638.2 | 2485.5 | 2247.1 | 2044.7 | 1959.1 | 1678.5 |
| 12.5° | 3066.5 | 3045.4 | 3076.4 | 3060.3 | 3024.3 | 2938.6 | 2794.6 | 2522.7 | 2269.4 | 2154.0 | 1800.2 |
| 15° | 3163.3 | 3178.2 | 3203.1 | 3247.7 | 3231.6 | 3199.3 | 3040.4 | 2805.8 | 2511.5 | 2381.2 | 1908.2 |
| 17.5° | 3312.3 | 3271.3 | 3301.1 | 3357.0 | 3401.7 | 3386.8 | 3296.2 | 3010.6 | 2751.1 | 2591.0 | 2053.4 |
| 20° | 3416.6 | 3393.0 | 3407.9 | 3472.5 | 3506.0 | 3590.4 | 3543.2 | 3278.8 | 2980.8 | 2812.0 | 2224.8 |
| 22.5° | 3714.5 | 3679.8 | 3631.4 | 3641.3 | 3653.7 | 3713.3 | 3724.5 | 3573.0 | 3247.7 | 3069.0 | 2387.4 |
| 25° | 4082.0 | 4049.7 | 3992.6 | 3934.3 | 3898.3 | 3887.1 | 3925.6 | 3803.9 | 3503.5 | 3318.5 | 2562.4 |
| 27.5° | 4486.8 | 4432.1 | 4396.1 | 4275.7 | 4178.9 | 4164.0 | 4145.3 | 4079.5 | 3806.4 | 3606.5 | 2759.8 |
| 30° | 4880.3 | 4836.9 | 4788.4 | 4596.0 | 4495.4 | 4479.3 | 4387.4 | 4406.1 | 4135.4 | 3913.2 | 2983.3 |
| 32.5° | 5178.3 | 5182.0 | 5071.5 | 4926.2 | 4831.9 | 4746.2 | 4712.7 | 4766.1 | 4557.5 | 4378.7 | 3232.8 |
| 35° | 5419.1 | 5430.3 | 5324.8 | 5193.2 | 5091.4 | 5151.0 | 5136.1 | 5160.9 | 5061.6 | 4843.1 | 3523.4 |
| 37.5° | 5653.8 | 5597.9 | 5484.9 | 5421.6 | 5368.2 | 5466.3 | 5592.9 | 5614.0 | 5632.7 | 5375.7 | 3861.0 |
| 40° | 5692.2 | 5697.2 | 5631.4 | 5676.1 | 5609.1 | 5756.8 | 6051.0 | 6023.7 | 6099.5 | 5874.7 | 4227.3 |
| 42.5° | 5637.6 | 5648.8 | 5674.9 | 5738.2 | 5899.6 | 6077.1 | 6514.1 | 6402.4 | 6494.2 | 6294.4 | 4583.6 |
| 45° | 5548.2 | 5502.3 | 5534.6 | 5775.4 | 6054.8 | 6449.6 | 6937.5 | 6850.6 | 6820.8 | 6653.2 | 5008.2 |
| 47.5° | 5121.2 | 5168.3 | 5268.9 | 5565.6 | 5985.2 | 6514.1 | 7237.9 | 7218.0 | 7307.4 | 7189.5 | 5394.3 |
| 50° | 4529.0 | 4510.3 | 4704.0 | 5038.0 | 5579.3 | 6387.5 | 7221.8 | 7401.8 | 7594.2 | 7430.3 | 5566.9 |
| 52.5° | 3391.8 | 3491.1 | 3657.4 | 4072.1 | 4844.3 | 5697.2 | 6869.2 | 7169.6 | 7326.0 | 7291.3 | 5427.8 |
| 55° | 2144.1 | 2173.9 | 2274.4 | 2767.3 | 3462.5 | 4572.4 | 5888.4 | 6584.9 | 6864.2 | 6994.6 | 5299.9 |
| 57.5° | 1041.6 | 985.7 | 1108.7 | 1504.7 | 2000.0 | 3075.2 | 4541.4 | 5735.7 | 6342.8 | 6578.7 | 5021.8 |
| 60° | 543.8 | 564.9 | 613.3 | 754.8 | 1034.2 | 1596.6 | 2830.6 | 3822.6 | 4750.0 | 5112.5 | 3806.4 |
| 62.5° | 450.7 | 458.1 | 490.4 | 561.2 | 687.8 | 918.7 | 1445.1 | 1863.5 | 2422.2 | 2748.7 | 2165.2 |
| 65° | 382.4 | 386.1 | 420.9 | 468.0 | 548.7 | 646.8 | 743.7 | 778.4 | 942.3 | 967.1 | 769.7 |
| 67.5° | 319.1 | 322.8 | 360.0 | 404.7 | 456.9 | 482.9 | 507.8 | 505.3 | 523.9 | 516.5 | 515.2 |
| 70° | 245.8 | 249.5 | 288.0 | 335.2 | 361.3 | 346.4 | 423.3 | 440.7 | 448.2 | 454.4 | 464.3 |
| 72.5° | 177.5 | 185.0 | 214.8 | 248.3 | 234.6 | 269.4 | 348.9 | 374.9 | 384.9 | 388.6 | 401.0 |
| 75° | 129.1 | 131.6 | 139.0 | 129.1 | 149.0 | 187.5 | 245.8 | 278.1 | 290.5 | 294.2 | 312.9 |
| 77.5° | 57.1 | 58.4 | 59.6 | 74.5 | 95.6 | 116.7 | 146.5 | 172.6 | 189.9 | 194.9 | 199.9 |
| 80° | 29.8 | 31.0 | 38.5 | 50.9 | 68.3 | 85.7 | 106.8 | 121.7 | 132.8 | 134.1 | 139.0 |
| 82.5° | 18.6 | 19.9 | 27.3 | 36.0 | 48.4 | 63.3 | 78.2 | 90.6 | 99.3 | 100.6 | 101.8 |
| 85° | 8.7 | 11.2 | 16.1 | 22.3 | 32.3 | 41.0 | 42.2 | 36.0 | 38.5 | 39.7 | 37.2 |
| 87.5° | 2.5 | 3.7 | 5.0 | 3.7 | 5.0 | 5.0 | 6.2 | 7.4 | 7.4 | 7.4 | 8.7 |
| 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° | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 |
| 2.5° | 1419.0 | 1407.9 | 1364.4 | 1348.3 | 1306.1 | 1313.5 | 1291.2 | 1289.9 | 1284.9 | 1283.7 | 1282.5 |
| 5° | 1453.8 | 1419.0 | 1366.9 | 1327.2 | 1303.6 | 1301.1 | 1284.9 | 1284.9 | 1289.9 | 1293.6 | 1284.9 |
| 7.5° | 1510.9 | 1471.2 | 1383.0 | 1345.8 | 1324.7 | 1320.9 | 1309.8 | 1301.1 | 1312.3 | 1308.5 | 1298.6 |
| 10° | 1576.7 | 1507.2 | 1414.1 | 1381.8 | 1347.0 | 1338.3 | 1338.3 | 1342.1 | 1323.4 | 1329.6 | 1319.7 |
| 12.5° | 1649.9 | 1556.8 | 1453.8 | 1416.5 | 1375.6 | 1370.6 | 1368.1 | 1340.8 | 1350.7 | 1345.8 | 1320.9 |
| 15° | 1743.1 | 1613.9 | 1504.7 | 1441.4 | 1406.6 | 1384.3 | 1352.0 | 1347.0 | 1340.8 | 1328.4 | 1317.2 |
| 17.5° | 1843.6 | 1676.0 | 1528.3 | 1448.8 | 1396.7 | 1380.5 | 1355.7 | 1329.6 | 1311.0 | 1313.5 | 1304.8 |
| 20° | 1929.3 | 1733.1 | 1537.0 | 1456.3 | 1389.2 | 1358.2 | 1319.7 | 1303.6 | 1283.7 | 1282.5 | 1281.2 |
| 22.5° | 2031.1 | 1810.1 | 1549.4 | 1436.4 | 1366.9 | 1334.6 | 1308.5 | 1280.0 | 1266.3 | 1248.9 | 1257.6 |
| 25° | 2152.7 | 1839.9 | 1551.9 | 1425.2 | 1350.7 | 1293.6 | 1280.0 | 1248.9 | 1244.0 | 1219.1 | 1224.1 |
| 27.5° | 2240.9 | 1856.0 | 1532.0 | 1390.5 | 1313.5 | 1270.0 | 1245.2 | 1222.9 | 1214.2 | 1195.6 | 1190.6 |
| 30° | 2358.8 | 1880.9 | 1489.8 | 1347.0 | 1276.3 | 1227.8 | 1212.9 | 1208.0 | 1183.1 | 1163.3 | 1160.8 |
| 32.5° | 2492.9 | 1897.0 | 1462.5 | 1302.3 | 1237.8 | 1200.5 | 1208.0 | 1184.4 | 1153.3 | 1136.0 | 1131.0 |
| 35° | 2599.7 | 1903.2 | 1394.2 | 1251.4 | 1211.7 | 1188.1 | 1179.4 | 1174.5 | 1129.8 | 1113.6 | 1101.2 |
| 37.5° | 2762.3 | 1889.6 | 1337.1 | 1215.4 | 1183.1 | 1174.5 | 1167.0 | 1133.5 | 1082.6 | 1059.0 | 1041.6 |
| 40° | 2952.3 | 1885.8 | 1263.8 | 1164.5 | 1155.8 | 1165.8 | 1143.4 | 1091.3 | 1020.5 | 994.4 | 982.0 |
| 42.5° | 3134.8 | 1911.9 | 1217.9 | 1137.2 | 1126.0 | 1129.8 | 1098.7 | 1020.5 | 985.7 | 970.8 | 951.0 |
| 45° | 3440.2 | 1966.5 | 1142.2 | 1095.0 | 1090.0 | 1087.5 | 1050.3 | 968.4 | 948.5 | 929.9 | 926.2 |
| 47.5° | 3715.8 | 1930.5 | 1093.8 | 1051.5 | 1056.5 | 1042.9 | 963.4 | 937.3 | 915.0 | 896.4 | 890.2 |
| 50° | 3731.9 | 1844.9 | 1025.5 | 1018.0 | 1019.3 | 995.7 | 919.9 | 902.6 | 874.0 | 861.6 | 852.9 |
| 52.5° | 3647.5 | 1704.6 | 962.2 | 964.6 | 968.4 | 929.9 | 866.6 | 854.1 | 830.6 | 813.2 | 808.2 |
| 55° | 3410.4 | 1486.1 | 900.1 | 910.0 | 919.9 | 846.7 | 826.8 | 795.8 | 777.2 | 752.3 | 753.6 |
| 57.5° | 3004.4 | 1196.8 | 813.2 | 829.3 | 850.4 | 769.7 | 754.8 | 716.3 | 689.0 | 669.2 | 666.7 |
| 60° | 2013.7 | 851.7 | 682.8 | 689.0 | 736.2 | 703.9 | 702.7 | 664.2 | 627.0 | 609.6 | 599.6 |
| 62.5° | 1188.1 | 650.5 | 589.7 | 583.5 | 582.3 | 600.9 | 631.9 | 618.3 | 569.8 | 536.3 | 546.3 |
| 65° | 622.0 | 562.4 | 548.7 | 527.6 | 515.2 | 510.3 | 533.8 | 540.0 | 507.8 | 471.8 | 469.3 |
| 67.5° | 522.7 | 522.7 | 511.5 | 504.0 | 486.7 | 465.6 | 450.7 | 430.8 | 425.8 | 415.9 | 403.5 |
| 70° | 475.5 | 487.9 | 484.2 | 466.8 | 451.9 | 428.3 | 389.8 | 357.5 | 326.5 | 315.3 | 322.8 |
| 72.5° | 414.7 | 427.1 | 427.1 | 418.4 | 398.5 | 362.5 | 325.3 | 288.0 | 262.0 | 242.1 | 239.6 |
| 75° | 319.1 | 325.3 | 340.2 | 330.2 | 304.2 | 281.8 | 243.3 | 204.8 | 180.0 | 161.4 | 157.7 |
| 77.5° | 203.6 | 213.5 | 213.5 | 212.3 | 193.7 | 172.6 | 147.7 | 120.4 | 101.8 | 88.1 | 84.4 |
| 80° | 135.3 | 141.5 | 146.5 | 141.5 | 129.1 | 113.0 | 94.4 | 75.7 | 62.1 | 50.9 | 48.4 |
| 82.5° | 99.3 | 106.8 | 110.5 | 105.5 | 93.1 | 80.7 | 67.0 | 53.4 | 39.7 | 31.0 | 28.6 |
| 85° | 38.5 | 39.7 | 44.7 | 53.4 | 52.1 | 50.9 | 41.0 | 29.8 | 22.3 | 16.1 | 14.9 |
| 87.5° | 9.9 | 8.7 | 9.9 | 9.9 | 8.7 | 7.4 | 7.4 | 7.4 | 7.4 | 3.7 | 5.0 |
| 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)