

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: P529768

Luminaire Tested: **GALN-SA5A-722-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-722-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14243 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

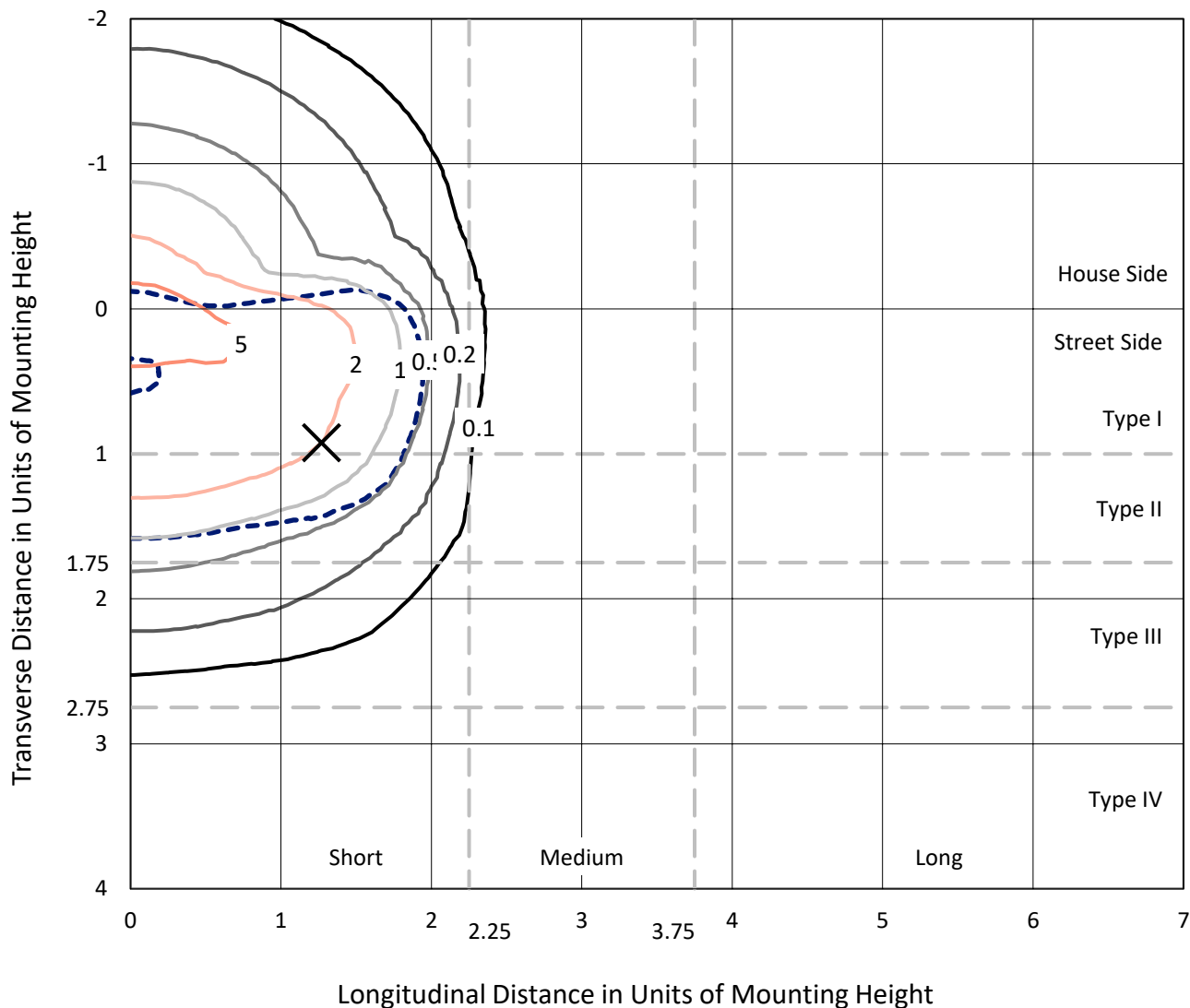
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529768
 CATALOG NUMBER: GALN-SA5A-722-U-SL3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

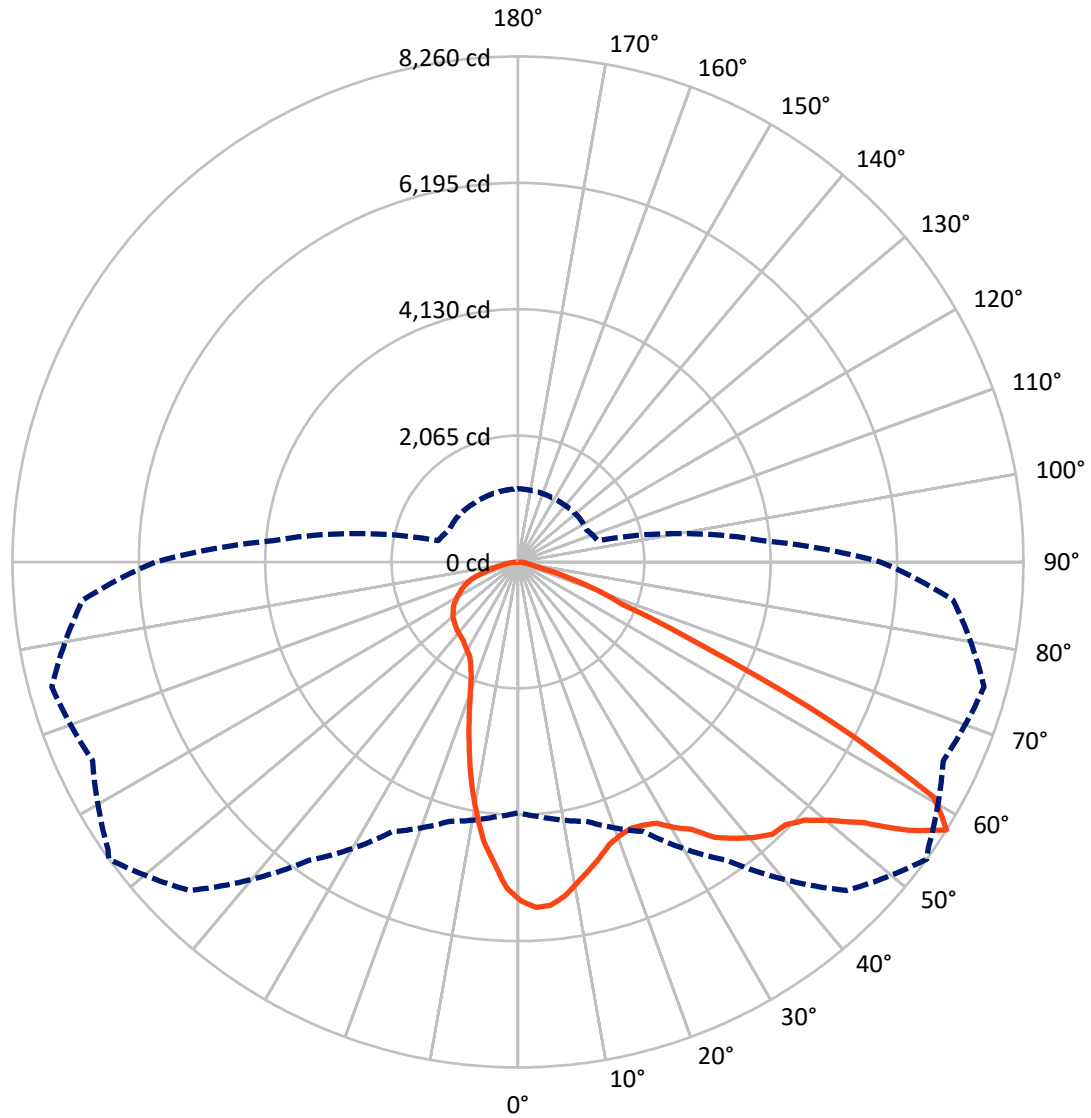
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - N/A

REPORT NUMBER: P529768
CATALOG NUMBER: GALN-SA5A-722-U-SL3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P529768
 CATALOG NUMBER: GALN-SA5A-722-U-SL3-GRSWH

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3940.4 | 0.0 | 3940.4 |
| | % Fixture | 27.7 | 0.0 | 27.7 |
| Street Side | Lumens | 10302.6 | 0.0 | 10302.6 |
| | % Fixture | 72.3 | 0.0 | 72.3 |
| Total | Lumens | 14243.0 | 0.0 | 14243.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 477.4 | 3.4 |
| 10°-20° | 1105.4 | 7.8 |
| 20°-30° | 1553.2 | 10.9 |
| 30°-40° | 2171.3 | 15.2 |
| 40°-50° | 2939.6 | 20.6 |
| 50°-60° | 3580.5 | 25.1 |
| 60°-70° | 1864.9 | 13.1 |
| 70°-80° | 477.8 | 3.4 |
| 80°-90° | 72.9 | 0.5 |
| 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° | 14243.0 | 100.0 |
| 0°-180° | 14243.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P529768

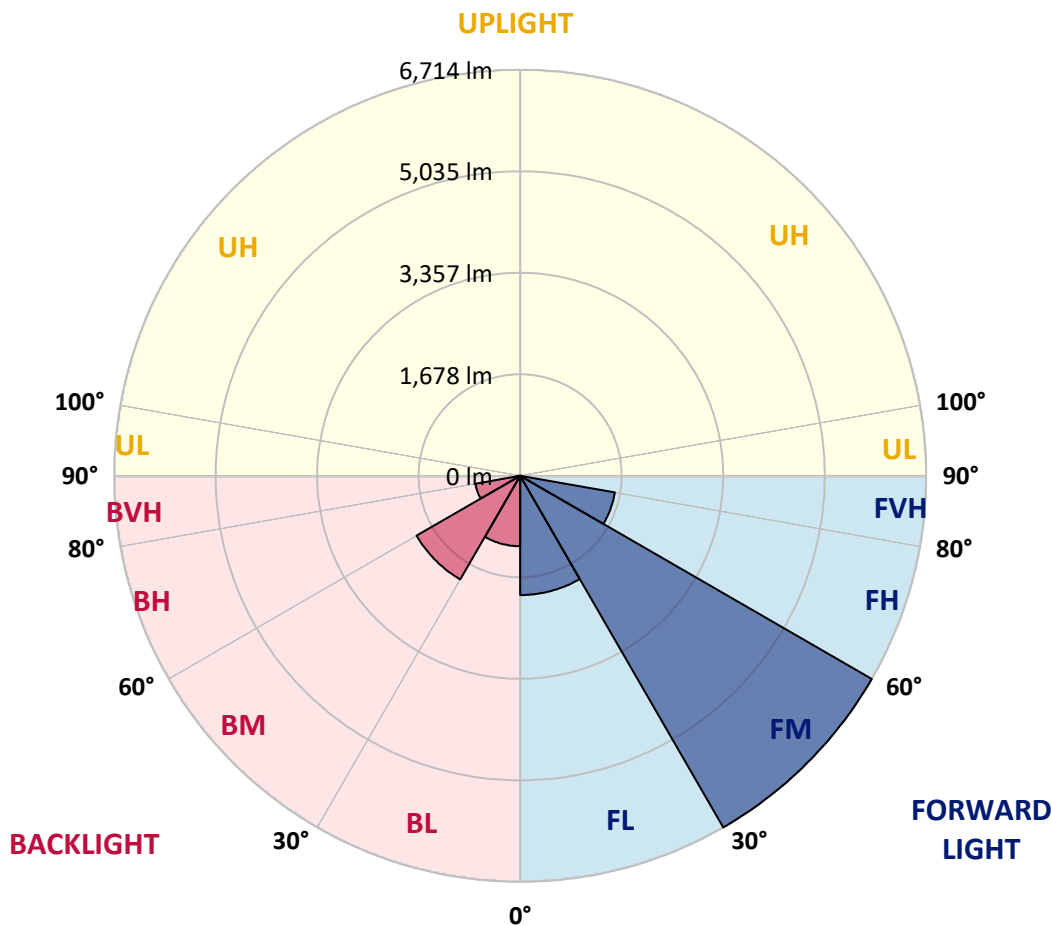
CATALOG NUMBER: GALN-SA5A-722-U-SL3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1971.4 | 13.8 | | | |
| FM (30°-60°) | 6713.7 | 47.1 | | | |
| FH (60°-80°) | 1589.9 | 11.2 | | | G1/1800 |
| FVH (80°-90°) | 27.5 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1164.6 | 8.2 | B3/2500 | | |
| BM (30°-60°) | 1977.7 | 13.9 | B2/2500 | | |
| BH (60°-80°) | 752.8 | 5.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 45.3 | 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 II Short





REPORT NUMBER: P529768

CATALOG NUMBER: GALN-SA5A-722-U-SL3-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5536.1 | 5536.1 | 5536.1 | 5536.1 | 5536.1 | 5536.1 | 5536.1 | 5536.1 | 5536.1 | 5536.1 | 5536.1 |
| 2.5° | 5693.5 | 5671.6 | 5675.2 | 5704.5 | 5667.9 | 5653.3 | 5653.3 | 5581.9 | 5587.4 | 5537.9 | 5525.1 |
| 5° | 5561.7 | 5510.5 | 5545.2 | 5589.2 | 5596.5 | 5611.2 | 5634.9 | 5616.6 | 5565.4 | 5512.3 | 5426.2 |
| 7.5° | 5217.5 | 5263.3 | 5276.1 | 5307.3 | 5373.2 | 5433.6 | 5508.6 | 5457.4 | 5455.5 | 5402.4 | 5351.2 |
| 10° | 4915.5 | 4888.0 | 4957.6 | 5003.4 | 5113.2 | 5213.9 | 5329.2 | 5323.7 | 5351.2 | 5290.8 | 5202.9 |
| 12.5° | 4615.2 | 4593.3 | 4626.2 | 4730.6 | 4884.4 | 5030.8 | 5168.1 | 5116.9 | 5263.3 | 5252.3 | 5063.8 |
| 15° | 4296.7 | 4313.2 | 4360.8 | 4457.8 | 4659.2 | 4834.9 | 5008.8 | 5010.7 | 5140.7 | 5184.6 | 4932.0 |
| 17.5° | 4073.3 | 4055.0 | 4115.5 | 4260.1 | 4439.5 | 4650.0 | 4847.7 | 4888.0 | 5087.6 | 5113.2 | 4891.7 |
| 20° | 3906.8 | 3932.4 | 4011.1 | 4084.3 | 4291.2 | 4545.7 | 4769.0 | 4783.7 | 5076.6 | 5146.1 | 4827.6 |
| 22.5° | 3866.5 | 3851.8 | 3877.5 | 3996.5 | 4166.7 | 4443.2 | 4726.9 | 4781.8 | 5074.8 | 5135.2 | 4706.8 |
| 25° | 3824.4 | 3872.0 | 3870.1 | 3989.1 | 4113.6 | 4360.8 | 4761.7 | 4822.1 | 5171.8 | 5191.9 | 4723.3 |
| 27.5° | 3919.6 | 3914.1 | 3965.3 | 3974.5 | 4128.3 | 4382.7 | 4834.9 | 4880.7 | 5332.9 | 5316.4 | 4736.1 |
| 30° | 4014.8 | 3987.3 | 4018.4 | 4126.4 | 4197.8 | 4509.1 | 5036.3 | 5032.6 | 5541.6 | 5530.6 | 4776.3 |
| 32.5° | 4131.9 | 4119.1 | 4139.3 | 4234.5 | 4355.3 | 4677.5 | 5206.6 | 5314.6 | 5753.9 | 5823.5 | 4915.5 |
| 35° | 4153.9 | 4207.0 | 4254.6 | 4382.7 | 4554.8 | 4950.3 | 5526.9 | 5616.6 | 5999.3 | 6217.1 | 5180.9 |
| 37.5° | 4293.0 | 4313.2 | 4424.8 | 4651.9 | 4809.3 | 5314.6 | 5730.1 | 5786.9 | 6222.6 | 6469.8 | 5461.0 |
| 40° | 4441.3 | 4465.1 | 4633.5 | 4871.5 | 5087.6 | 5552.6 | 5920.5 | 5938.8 | 6294.0 | 6663.8 | 5644.1 |
| 42.5° | 4642.7 | 4664.7 | 4831.3 | 5129.7 | 5418.9 | 5755.8 | 6089.0 | 6109.1 | 6288.5 | 6887.2 | 5935.2 |
| 45° | 4851.4 | 4904.5 | 5100.4 | 5439.1 | 5699.0 | 5993.8 | 6127.4 | 6209.8 | 6339.8 | 7086.7 | 6171.4 |
| 47.5° | 5144.3 | 5193.7 | 5354.8 | 5686.2 | 5990.1 | 6202.5 | 6305.0 | 6385.5 | 6462.4 | 7260.6 | 6323.3 |
| 50° | 5455.5 | 5464.7 | 5660.6 | 5960.8 | 6184.2 | 6438.6 | 6636.4 | 6663.8 | 6623.5 | 7462.0 | 6581.4 |
| 52.5° | 5684.4 | 5713.7 | 5865.6 | 6158.5 | 6491.7 | 6804.8 | 7075.7 | 7105.0 | 7026.3 | 7537.1 | 6669.3 |
| 55° | 5305.4 | 5288.9 | 5536.1 | 5926.0 | 6698.6 | 7350.3 | 7743.9 | 7765.9 | 7319.2 | 7769.6 | 6956.7 |
| 57.5° | 4100.8 | 4179.5 | 4390.1 | 4860.6 | 5951.7 | 7592.0 | 8260.2 | 8181.5 | 7670.7 | 7886.7 | 7139.8 |
| 60° | 2980.4 | 2962.1 | 3103.1 | 3418.0 | 4485.3 | 6543.0 | 7809.8 | 7890.4 | 7383.3 | 7108.7 | 5887.6 |
| 62.5° | 2427.5 | 2401.9 | 2412.9 | 2423.9 | 2894.4 | 4342.5 | 5781.4 | 5779.6 | 5686.2 | 5109.5 | 3970.8 |
| 65° | 1940.6 | 2001.0 | 2006.5 | 2088.8 | 2149.3 | 2594.1 | 3350.2 | 3529.6 | 3073.8 | 2520.9 | 1828.9 |
| 67.5° | 1462.7 | 1440.8 | 1514.0 | 1806.9 | 1920.4 | 1872.8 | 1828.9 | 1849.0 | 1314.5 | 948.3 | 893.4 |
| 70° | 862.3 | 853.1 | 941.0 | 1259.5 | 1581.7 | 1488.4 | 1378.5 | 1380.4 | 902.5 | 662.7 | 737.8 |
| 72.5° | 472.3 | 470.5 | 488.8 | 638.9 | 898.9 | 933.7 | 827.5 | 853.1 | 538.2 | 536.4 | 576.7 |
| 75° | 263.6 | 258.1 | 252.6 | 281.9 | 324.0 | 342.3 | 349.7 | 353.3 | 369.8 | 413.7 | 430.2 |
| 77.5° | 97.0 | 93.4 | 93.4 | 108.0 | 137.3 | 172.1 | 217.9 | 221.5 | 261.8 | 300.2 | 316.7 |
| 80° | 33.0 | 36.6 | 49.4 | 67.7 | 91.5 | 122.7 | 148.3 | 151.9 | 184.9 | 210.5 | 216.0 |
| 82.5° | 20.1 | 22.0 | 33.0 | 47.6 | 65.9 | 86.0 | 109.8 | 111.7 | 137.3 | 153.8 | 161.1 |
| 85° | 9.2 | 11.0 | 18.3 | 29.3 | 42.1 | 56.8 | 58.6 | 58.6 | 56.8 | 58.6 | 54.9 |
| 87.5° | 0.0 | 0.0 | 3.7 | 3.7 | 3.7 | 5.5 | 7.3 | 5.5 | 9.2 | 11.0 | 11.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P529768

CATALOG NUMBER: GALN-SA5A-722-U-SL3-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5536.1 | 5536.1 | 5536.1 | 5536.1 | 5536.1 | 5536.1 | 5536.1 | 5536.1 | 5536.1 | 5536.1 | 5536.1 |
| 2.5° | 5486.7 | 5466.5 | 5404.3 | 5349.4 | 5332.9 | 5259.7 | 5151.6 | 5164.5 | 5085.7 | 5122.3 | 5083.9 |
| 5° | 5411.6 | 5343.9 | 5184.6 | 5116.9 | 4939.3 | 4858.7 | 4803.8 | 4666.5 | 4602.4 | 4589.6 | 4534.7 |
| 7.5° | 5219.4 | 5177.3 | 4977.7 | 4794.7 | 4606.1 | 4445.0 | 4238.1 | 4097.1 | 3996.5 | 3969.0 | 3888.4 |
| 10° | 5067.4 | 4974.1 | 4697.6 | 4419.4 | 4150.2 | 3870.1 | 3601.0 | 3390.5 | 3288.0 | 3169.0 | 3128.7 |
| 12.5° | 4917.3 | 4776.3 | 4402.9 | 4045.9 | 3698.1 | 3344.7 | 3018.9 | 2762.6 | 2539.2 | 2486.1 | 2467.8 |
| 15° | 4823.9 | 4578.6 | 4139.3 | 3709.0 | 3214.7 | 2753.4 | 2427.5 | 2259.1 | 2121.8 | 2065.0 | 2105.3 |
| 17.5° | 4701.3 | 4415.7 | 3886.6 | 3313.6 | 2769.9 | 2345.1 | 2072.4 | 1968.0 | 1918.6 | 1924.1 | 1907.6 |
| 20° | 4547.5 | 4261.9 | 3555.3 | 2954.8 | 2372.6 | 2033.9 | 1878.3 | 1839.9 | 1847.2 | 1860.0 | 1854.5 |
| 22.5° | 4437.7 | 4075.2 | 3315.4 | 2588.6 | 2050.4 | 1861.8 | 1797.8 | 1770.3 | 1794.1 | 1805.1 | 1795.9 |
| 25° | 4353.4 | 3915.9 | 3024.3 | 2264.6 | 1863.7 | 1764.8 | 1735.5 | 1733.7 | 1770.3 | 1784.9 | 1775.8 |
| 27.5° | 4276.6 | 3767.6 | 2735.1 | 2017.5 | 1739.2 | 1689.8 | 1680.6 | 1702.6 | 1726.4 | 1741.0 | 1753.8 |
| 30° | 4230.8 | 3654.1 | 2464.1 | 1810.6 | 1676.9 | 1653.1 | 1636.7 | 1656.8 | 1669.6 | 1684.3 | 1676.9 |
| 32.5° | 4274.7 | 3573.6 | 2202.4 | 1693.4 | 1625.7 | 1601.9 | 1623.8 | 1611.0 | 1633.0 | 1645.8 | 1625.7 |
| 35° | 4412.0 | 3502.2 | 2015.6 | 1631.2 | 1567.1 | 1576.2 | 1579.9 | 1574.4 | 1583.6 | 1572.6 | 1596.4 |
| 37.5° | 4547.5 | 3476.5 | 1843.5 | 1578.1 | 1539.6 | 1539.6 | 1536.0 | 1525.0 | 1543.3 | 1539.6 | 1550.6 |
| 40° | 4719.6 | 3493.0 | 1697.1 | 1521.3 | 1514.0 | 1510.3 | 1495.7 | 1493.9 | 1486.5 | 1488.4 | 1492.0 |
| 42.5° | 4869.7 | 3529.6 | 1612.9 | 1484.7 | 1490.2 | 1497.5 | 1470.1 | 1448.1 | 1457.3 | 1438.9 | 1438.9 |
| 45° | 5029.0 | 3562.6 | 1537.8 | 1459.1 | 1453.6 | 1451.8 | 1429.8 | 1417.0 | 1409.7 | 1411.5 | 1428.0 |
| 47.5° | 5279.8 | 3610.2 | 1481.1 | 1424.3 | 1428.0 | 1400.5 | 1395.0 | 1378.5 | 1385.9 | 1396.8 | 1398.7 |
| 50° | 5457.4 | 3710.9 | 1437.1 | 1384.0 | 1396.8 | 1378.5 | 1345.6 | 1338.3 | 1338.3 | 1356.6 | 1352.9 |
| 52.5° | 5581.9 | 3851.8 | 1395.0 | 1340.1 | 1345.6 | 1330.9 | 1319.9 | 1303.5 | 1292.5 | 1318.1 | 1330.9 |
| 55° | 5962.6 | 4086.2 | 1384.0 | 1303.5 | 1301.6 | 1287.0 | 1266.9 | 1250.4 | 1244.9 | 1248.5 | 1274.2 |
| 57.5° | 5926.0 | 4012.9 | 1349.2 | 1239.4 | 1235.7 | 1215.6 | 1195.5 | 1190.0 | 1188.1 | 1191.8 | 1199.1 |
| 60° | 4811.1 | 2963.9 | 1204.6 | 1166.2 | 1160.7 | 1157.0 | 1136.9 | 1114.9 | 1103.9 | 1114.9 | 1105.8 |
| 62.5° | 3183.6 | 1984.5 | 1061.8 | 1078.3 | 1082.0 | 1072.8 | 1039.8 | 1017.9 | 1021.5 | 1034.4 | 1014.2 |
| 65° | 1563.4 | 1166.2 | 963.0 | 1006.9 | 1010.6 | 984.9 | 953.8 | 928.2 | 915.4 | 926.3 | 917.2 |
| 67.5° | 893.4 | 891.6 | 882.4 | 928.2 | 926.3 | 900.7 | 851.3 | 829.3 | 807.3 | 811.0 | 805.5 |
| 70° | 757.9 | 772.6 | 790.9 | 818.3 | 816.5 | 787.2 | 728.6 | 712.1 | 681.0 | 677.4 | 668.2 |
| 72.5° | 596.8 | 622.4 | 662.7 | 682.9 | 666.4 | 629.8 | 591.3 | 563.9 | 536.4 | 519.9 | 525.4 |
| 75° | 443.0 | 479.6 | 501.6 | 514.4 | 488.8 | 468.7 | 437.5 | 404.6 | 371.6 | 357.0 | 351.5 |
| 77.5° | 322.2 | 333.2 | 353.3 | 362.5 | 346.0 | 325.9 | 307.6 | 274.6 | 243.5 | 223.3 | 217.9 |
| 80° | 225.2 | 232.5 | 247.1 | 247.1 | 247.1 | 238.0 | 214.2 | 181.2 | 161.1 | 142.8 | 139.1 |
| 82.5° | 157.4 | 164.8 | 179.4 | 172.1 | 170.3 | 159.3 | 144.6 | 119.0 | 97.0 | 84.2 | 80.6 |
| 85° | 54.9 | 60.4 | 73.2 | 87.9 | 93.4 | 91.5 | 82.4 | 65.9 | 51.3 | 42.1 | 38.4 |
| 87.5° | 12.8 | 12.8 | 14.6 | 12.8 | 12.8 | 14.6 | 12.8 | 12.8 | 12.8 | 9.2 | 7.3 |
| 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)