

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: P532497

Luminaire Tested: **GALN-SA7D-760-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-760-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31510 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

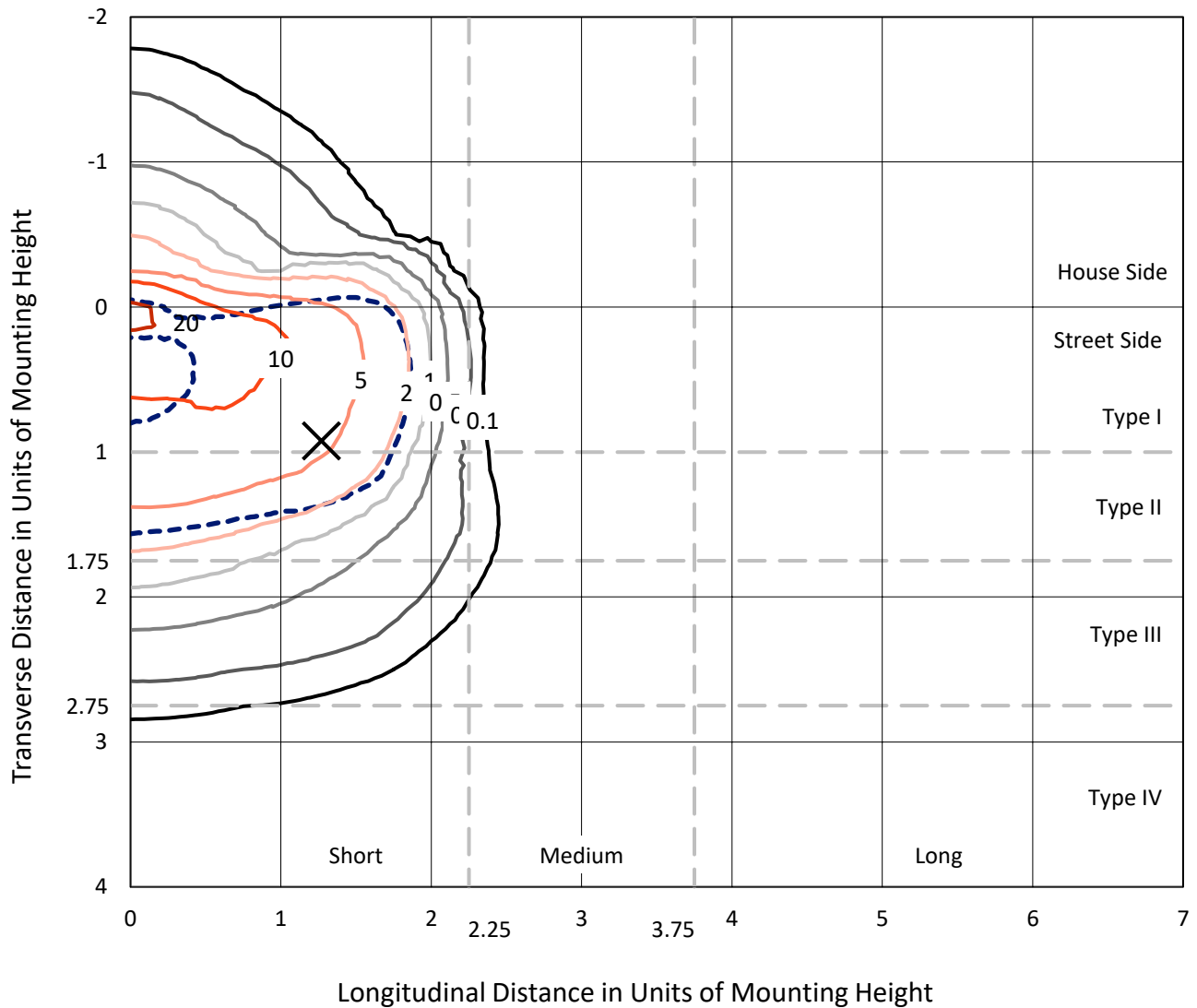
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

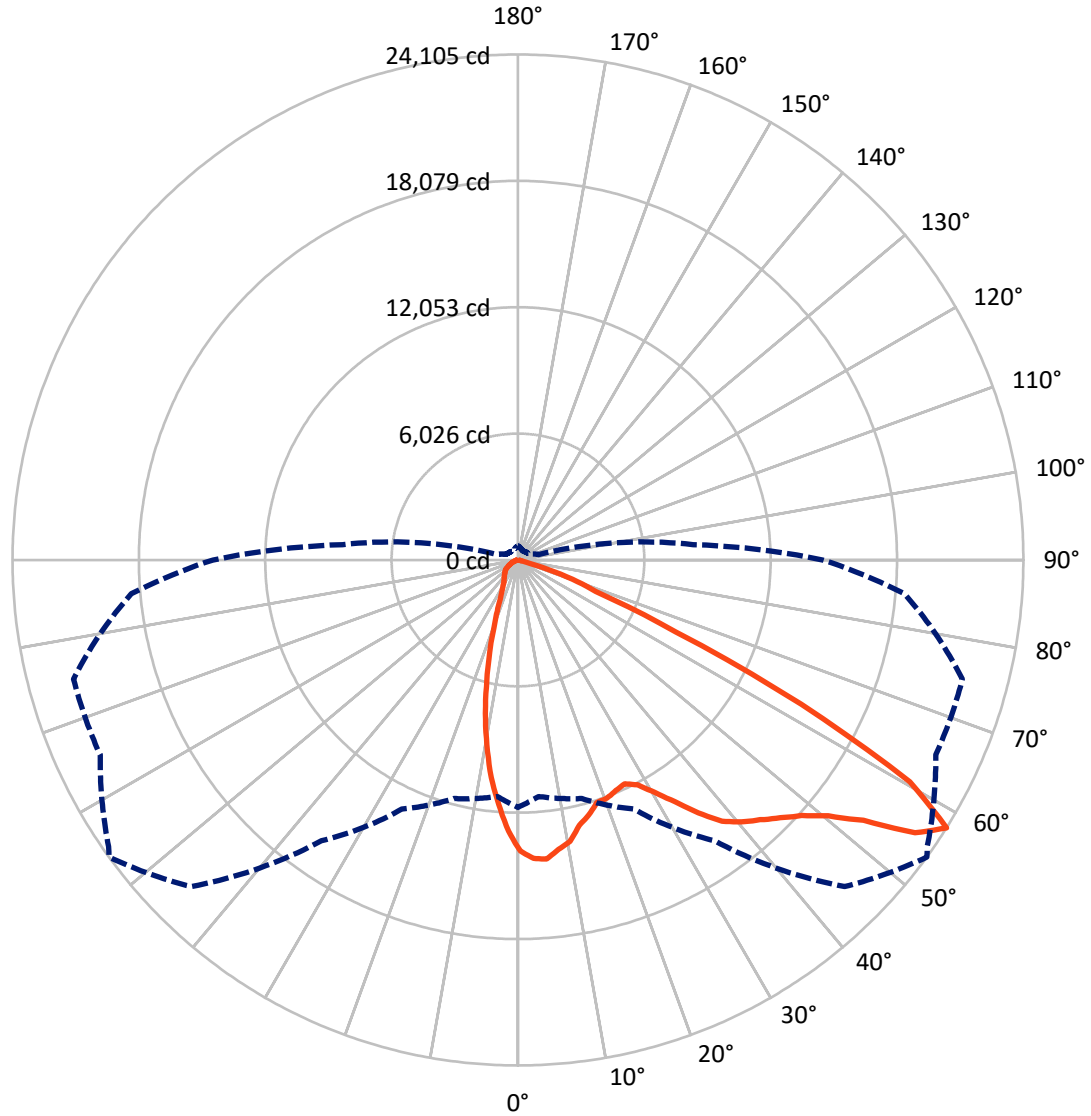
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4452.9 | 0.0 | 4452.9 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 27057.1 | 0.0 | 27057.1 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 31510.0 | 0.0 | 31510.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1161.6 | 3.7 |
| 10°-20° | 2479.9 | 7.9 |
| 20°-30° | 3286.4 | 10.4 |
| 30°-40° | 4776.0 | 15.2 |
| 40°-50° | 7082.2 | 22.5 |
| 50°-60° | 8855.9 | 28.1 |
| 60°-70° | 3493.3 | 11.1 |
| 70°-80° | 347.8 | 1.1 |
| 80°-90° | 27.0 | 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° | 31510.0 | 100.0 |
| 0°-180° | 31510.0 | 100.0 |

Coefficient of Utilization



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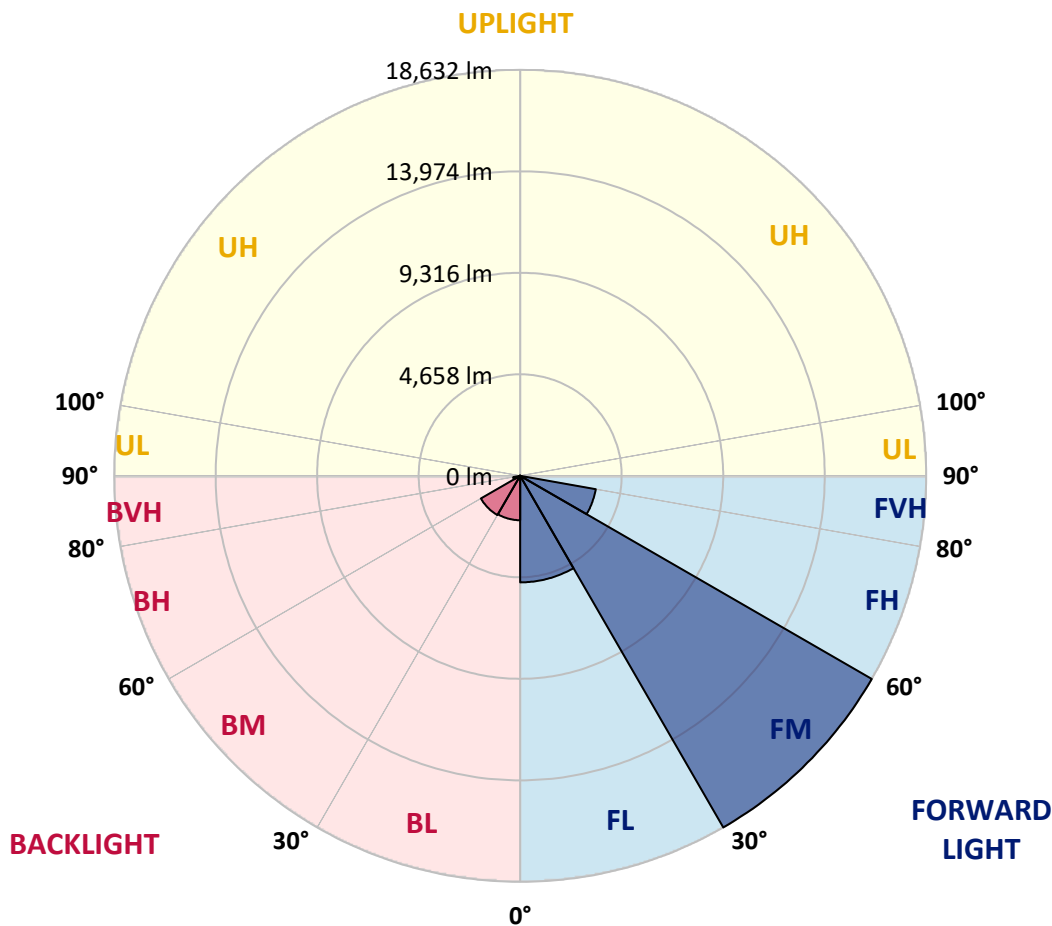
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4891.3 | 15.5 | | | |
| FM (30°-60°) | 18631.8 | 59.1 | | | |
| FH (60°-80°) | 3521.8 | 11.2 | | | G2/5000 |
| FVH (80°-90°) | 12.3 | 0.0 | | | G1/100 |
| BL (0°-30°) | 2036.5 | 6.5 | B3/2500 | | |
| BM (30°-60°) | 2082.3 | 6.6 | B2/2500 | | |
| BH (60°-80°) | 319.3 | 1.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 14.8 | 0.0 | | | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13880.6 | 13880.6 | 13880.6 | 13880.6 | 13880.6 | 13880.6 | 13880.6 | 13880.6 | 13880.6 | 13880.6 | 13880.6 |
| 2.5° | 14689.2 | 14536.8 | 14548.5 | 14495.8 | 14425.5 | 14478.2 | 14249.7 | 14302.4 | 14296.6 | 13986.0 | 13781.0 |
| 5° | 14320.0 | 14484.1 | 14314.2 | 14454.8 | 14320.0 | 14466.5 | 14325.9 | 14220.4 | 14050.5 | 13822.0 | 13441.1 |
| 7.5° | 13693.1 | 13534.9 | 13581.8 | 13757.5 | 13786.8 | 14114.9 | 13939.2 | 14073.9 | 14003.6 | 13552.5 | 13031.0 |
| 10° | 12433.3 | 12398.2 | 12632.6 | 12866.9 | 13154.0 | 13505.6 | 13640.3 | 13564.2 | 13511.4 | 13341.5 | 12644.3 |
| 12.5° | 11466.6 | 11566.2 | 11560.3 | 11947.0 | 12433.3 | 12632.6 | 12984.1 | 12972.4 | 13265.4 | 12949.0 | 12281.0 |
| 15° | 10546.7 | 10599.4 | 10845.5 | 11085.7 | 11624.8 | 12193.1 | 12626.7 | 12685.3 | 13036.8 | 12814.2 | 11999.8 |
| 17.5° | 9984.2 | 9908.0 | 10101.4 | 10388.5 | 10939.2 | 11683.4 | 12163.8 | 12304.4 | 12784.9 | 12738.0 | 11677.5 |
| 20° | 9427.5 | 9427.5 | 9585.7 | 9925.6 | 10429.5 | 11267.4 | 12122.8 | 12081.8 | 12784.9 | 12650.1 | 11331.8 |
| 22.5° | 9240.0 | 9333.8 | 9374.8 | 9632.6 | 10230.3 | 10951.0 | 11947.0 | 12023.2 | 12884.5 | 12609.1 | 11179.5 |
| 25° | 9497.9 | 9374.8 | 9386.5 | 9591.6 | 10154.1 | 10798.6 | 11818.1 | 11988.0 | 13066.1 | 12814.2 | 11056.4 |
| 27.5° | 9538.9 | 9661.9 | 9697.1 | 9837.7 | 10212.7 | 10845.5 | 12140.4 | 12486.1 | 13517.3 | 13294.7 | 11091.6 |
| 30° | 9896.3 | 10019.3 | 10013.5 | 10253.7 | 10511.5 | 11226.3 | 12861.1 | 12931.4 | 14448.9 | 13898.2 | 11308.4 |
| 32.5° | 10329.9 | 10458.8 | 10499.8 | 10781.0 | 10986.1 | 11923.6 | 13740.0 | 13921.6 | 15345.4 | 14847.4 | 11876.7 |
| 35° | 10868.9 | 10822.0 | 11009.5 | 11290.8 | 11730.2 | 12943.1 | 14812.2 | 15116.9 | 16312.2 | 16077.8 | 12462.6 |
| 37.5° | 11542.7 | 11484.1 | 11665.8 | 12122.8 | 12720.4 | 14150.1 | 15802.4 | 16001.6 | 17015.3 | 17220.4 | 13546.6 |
| 40° | 12017.3 | 12040.8 | 12591.5 | 13206.8 | 13839.6 | 15298.5 | 16429.4 | 16622.7 | 17507.5 | 18286.7 | 14366.9 |
| 42.5° | 12808.3 | 12954.8 | 13616.9 | 14366.9 | 15029.0 | 16159.8 | 16939.1 | 17126.6 | 17736.0 | 19142.2 | 15474.3 |
| 45° | 13956.7 | 13892.3 | 14624.7 | 15462.6 | 16195.0 | 17056.3 | 17542.6 | 17478.2 | 17870.7 | 19991.8 | 16171.5 |
| 47.5° | 15433.3 | 15445.0 | 15931.3 | 16646.1 | 17407.9 | 17835.6 | 18216.4 | 17987.9 | 18152.0 | 20888.3 | 17103.2 |
| 50° | 16441.1 | 16529.0 | 16921.5 | 17653.9 | 18034.8 | 18691.0 | 19177.3 | 19036.7 | 18984.0 | 21427.3 | 17689.1 |
| 52.5° | 16698.9 | 16962.5 | 17173.5 | 18087.5 | 18978.1 | 20015.2 | 20636.3 | 20935.1 | 19997.6 | 21608.9 | 18433.2 |
| 55° | 14753.6 | 14988.0 | 15732.1 | 16986.0 | 19335.5 | 22112.8 | 22968.3 | 22974.1 | 21321.8 | 22417.5 | 18954.7 |
| 57.5° | 11794.7 | 11320.1 | 11777.1 | 13107.2 | 16347.3 | 22024.9 | 24105.0 | 23829.6 | 21983.9 | 21942.9 | 18503.5 |
| 60° | 8156.1 | 8038.9 | 8068.2 | 8595.5 | 11314.2 | 17519.2 | 21480.0 | 21837.4 | 20243.7 | 19019.1 | 14648.1 |
| 62.5° | 6462.8 | 6363.2 | 6234.2 | 6175.7 | 7025.2 | 10915.8 | 15152.0 | 15655.9 | 14156.0 | 12333.7 | 8683.4 |
| 65° | 5062.4 | 5003.8 | 5021.4 | 5255.8 | 5249.9 | 6193.2 | 8285.0 | 8079.9 | 6468.6 | 4781.2 | 2730.4 |
| 67.5° | 3415.9 | 3503.8 | 3574.1 | 4283.1 | 4646.4 | 4312.4 | 4001.9 | 3884.7 | 2103.5 | 884.7 | 603.5 |
| 70° | 1921.8 | 1933.6 | 2009.7 | 2677.7 | 3527.3 | 3345.6 | 2759.7 | 2759.7 | 1048.8 | 322.3 | 345.7 |
| 72.5° | 1048.8 | 1013.7 | 943.3 | 1154.3 | 1570.3 | 1593.7 | 1230.4 | 1072.2 | 310.5 | 210.9 | 193.4 |
| 75° | 509.8 | 503.9 | 433.6 | 357.4 | 339.8 | 281.2 | 216.8 | 199.2 | 140.6 | 134.8 | 117.2 |
| 77.5° | 105.5 | 99.6 | 52.7 | 52.7 | 58.6 | 64.5 | 82.0 | 82.0 | 99.6 | 99.6 | 82.0 |
| 80° | 0.0 | 0.0 | 5.9 | 23.4 | 41.0 | 58.6 | 70.3 | 70.3 | 82.0 | 82.0 | 64.5 |
| 82.5° | 0.0 | 0.0 | 5.9 | 17.6 | 35.2 | 52.7 | 64.5 | 70.3 | 82.0 | 87.9 | 70.3 |
| 85° | 0.0 | 0.0 | 0.0 | 11.7 | 29.3 | 41.0 | 35.2 | 35.2 | 29.3 | 23.4 | 11.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13880.6 | 13880.6 | 13880.6 | 13880.6 | 13880.6 | 13880.6 | 13880.6 | 13880.6 | 13880.6 | 13880.6 | 13880.6 |
| 2.5° | 13675.5 | 13663.8 | 13394.3 | 13241.9 | 12966.5 | 12726.3 | 12533.0 | 12392.3 | 12392.3 | 12304.4 | 12222.4 |
| 5° | 13288.8 | 13189.2 | 12615.0 | 12245.8 | 11724.4 | 11337.7 | 11074.0 | 10868.9 | 10546.7 | 10634.6 | 10288.9 |
| 7.5° | 12808.3 | 12556.4 | 11794.7 | 11232.2 | 10511.5 | 9960.7 | 9398.2 | 8900.2 | 8419.8 | 8203.0 | 8320.1 |
| 10° | 12292.7 | 11853.3 | 10827.9 | 9937.3 | 9040.8 | 8033.0 | 7376.8 | 6579.9 | 6087.8 | 6058.5 | 5929.6 |
| 12.5° | 11747.8 | 11249.8 | 10001.8 | 8771.3 | 7593.6 | 6380.7 | 5378.8 | 4634.7 | 4300.7 | 3931.6 | 4001.9 |
| 15° | 11337.7 | 10599.4 | 9081.8 | 7599.5 | 6035.0 | 4810.4 | 3802.7 | 3228.5 | 2912.1 | 2824.2 | 2794.9 |
| 17.5° | 10892.4 | 10101.4 | 8144.4 | 6351.4 | 4734.3 | 3462.8 | 2736.3 | 2460.9 | 2337.8 | 2337.8 | 2320.3 |
| 20° | 10429.5 | 9538.9 | 7212.7 | 5191.3 | 3550.7 | 2583.9 | 2191.4 | 2103.5 | 2097.6 | 2091.8 | 2091.8 |
| 22.5° | 10124.8 | 8894.4 | 6369.0 | 4124.9 | 2677.7 | 2068.3 | 1904.3 | 1869.1 | 1892.5 | 1962.9 | 1962.9 |
| 25° | 9802.5 | 8273.3 | 5437.4 | 3181.6 | 2074.2 | 1775.4 | 1681.6 | 1705.0 | 1763.6 | 1828.1 | 1804.7 |
| 27.5° | 9474.4 | 7869.0 | 4558.5 | 2496.0 | 1699.2 | 1552.7 | 1517.5 | 1570.3 | 1634.7 | 1693.3 | 1675.7 |
| 30° | 9398.2 | 7435.4 | 3726.5 | 1892.5 | 1459.0 | 1353.5 | 1376.9 | 1423.8 | 1488.3 | 1511.7 | 1535.1 |
| 32.5° | 9515.4 | 7095.6 | 3052.7 | 1552.7 | 1271.5 | 1242.2 | 1242.2 | 1265.6 | 1306.6 | 1359.3 | 1341.8 |
| 35° | 9849.4 | 6902.2 | 2414.0 | 1347.6 | 1166.0 | 1136.7 | 1130.8 | 1154.3 | 1177.7 | 1195.3 | 1177.7 |
| 37.5° | 10359.2 | 6749.9 | 1974.6 | 1195.3 | 1095.7 | 1048.8 | 1037.1 | 1031.2 | 1054.7 | 1060.5 | 1072.2 |
| 40° | 11009.5 | 6831.9 | 1675.7 | 1101.5 | 1025.4 | 972.6 | 937.5 | 937.5 | 937.5 | 955.1 | 960.9 |
| 42.5° | 11712.7 | 6943.2 | 1447.2 | 1048.8 | 960.9 | 896.5 | 861.3 | 849.6 | 861.3 | 884.7 | 878.9 |
| 45° | 12450.9 | 7160.0 | 1300.8 | 966.8 | 902.3 | 820.3 | 773.4 | 761.7 | 791.0 | 837.9 | 832.0 |
| 47.5° | 13142.3 | 7470.6 | 1189.4 | 914.0 | 843.7 | 767.6 | 709.0 | 697.3 | 750.0 | 814.4 | 820.3 |
| 50° | 13833.7 | 8009.6 | 1148.4 | 873.0 | 802.7 | 714.8 | 662.1 | 650.4 | 709.0 | 791.0 | 808.6 |
| 52.5° | 14630.6 | 8589.7 | 1119.1 | 820.3 | 755.8 | 673.8 | 615.2 | 603.5 | 668.0 | 773.4 | 779.3 |
| 55° | 15152.0 | 9081.8 | 1095.7 | 726.5 | 668.0 | 609.4 | 562.5 | 556.6 | 626.9 | 720.7 | 744.1 |
| 57.5° | 14542.7 | 8396.3 | 1013.7 | 632.8 | 568.3 | 539.1 | 498.0 | 498.0 | 556.6 | 644.5 | 662.1 |
| 60° | 11027.1 | 5525.3 | 720.7 | 509.8 | 480.5 | 462.9 | 445.3 | 445.3 | 492.2 | 556.6 | 562.5 |
| 62.5° | 6456.9 | 2976.5 | 462.9 | 410.1 | 410.1 | 392.6 | 363.3 | 363.3 | 410.1 | 445.3 | 451.2 |
| 65° | 1916.0 | 955.1 | 375.0 | 351.6 | 345.7 | 316.4 | 287.1 | 281.2 | 316.4 | 334.0 | 328.1 |
| 67.5° | 550.8 | 439.4 | 310.5 | 293.0 | 287.1 | 240.2 | 222.7 | 216.8 | 222.7 | 210.9 | 205.1 |
| 70° | 328.1 | 298.8 | 240.2 | 246.1 | 216.8 | 175.8 | 158.2 | 152.3 | 140.6 | 123.0 | 111.3 |
| 72.5° | 181.6 | 181.6 | 175.8 | 187.5 | 152.3 | 117.2 | 99.6 | 82.0 | 64.5 | 52.7 | 46.9 |
| 75° | 111.3 | 117.2 | 123.0 | 128.9 | 99.6 | 76.2 | 64.5 | 41.0 | 23.4 | 11.7 | 11.7 |
| 77.5° | 76.2 | 82.0 | 87.9 | 93.7 | 82.0 | 70.3 | 52.7 | 29.3 | 5.9 | 0.0 | 0.0 |
| 80° | 58.6 | 64.5 | 76.2 | 82.0 | 87.9 | 93.7 | 70.3 | 29.3 | 5.9 | 0.0 | 0.0 |
| 82.5° | 64.5 | 70.3 | 87.9 | 82.0 | 82.0 | 82.0 | 64.5 | 29.3 | 5.9 | 0.0 | 0.0 |
| 85° | 11.7 | 17.6 | 29.3 | 29.3 | 41.0 | 52.7 | 41.0 | 11.7 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 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)