

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: P534133

Luminaire Tested: **GALN-SA9C-760-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-760-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37201 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G2

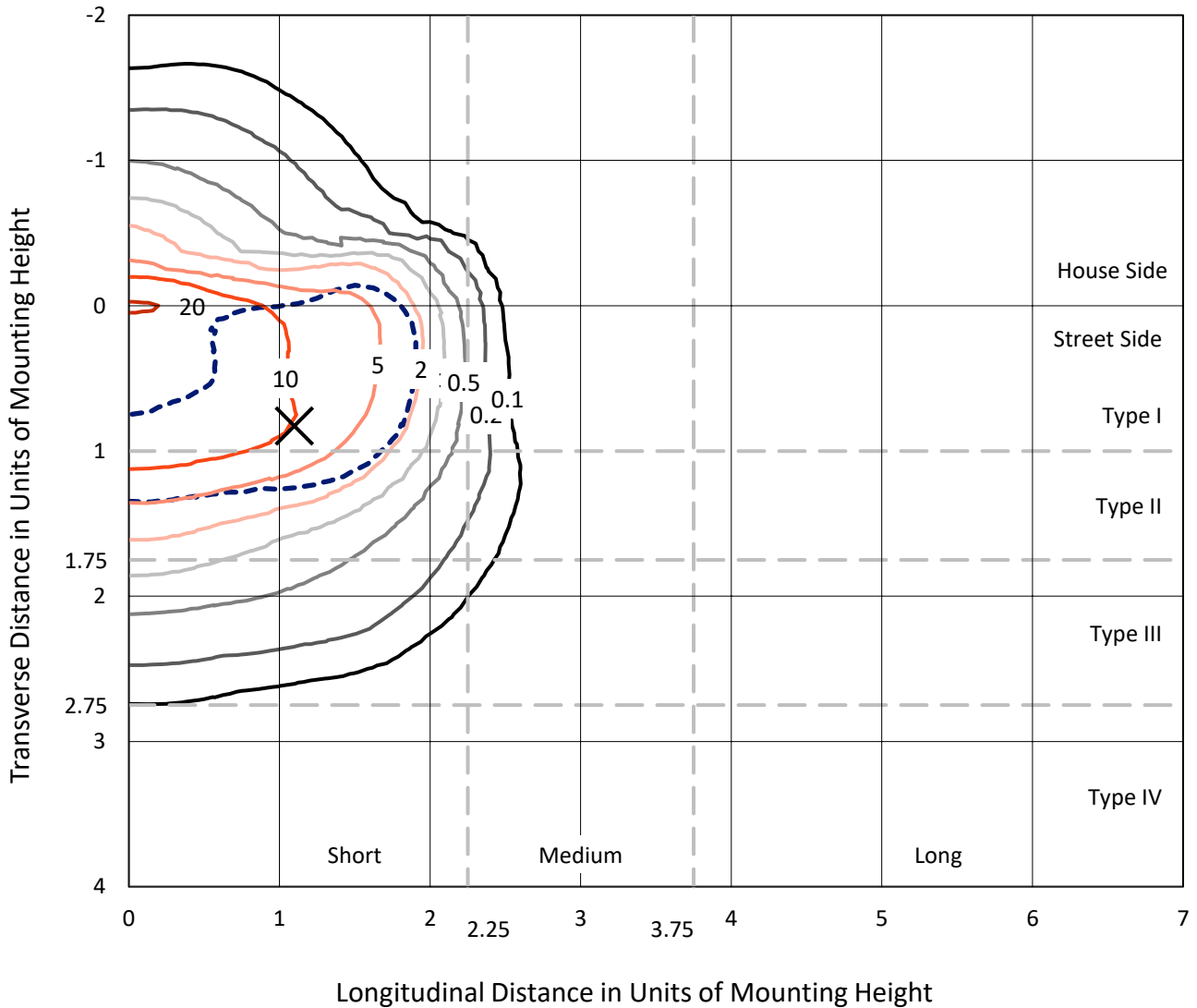
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

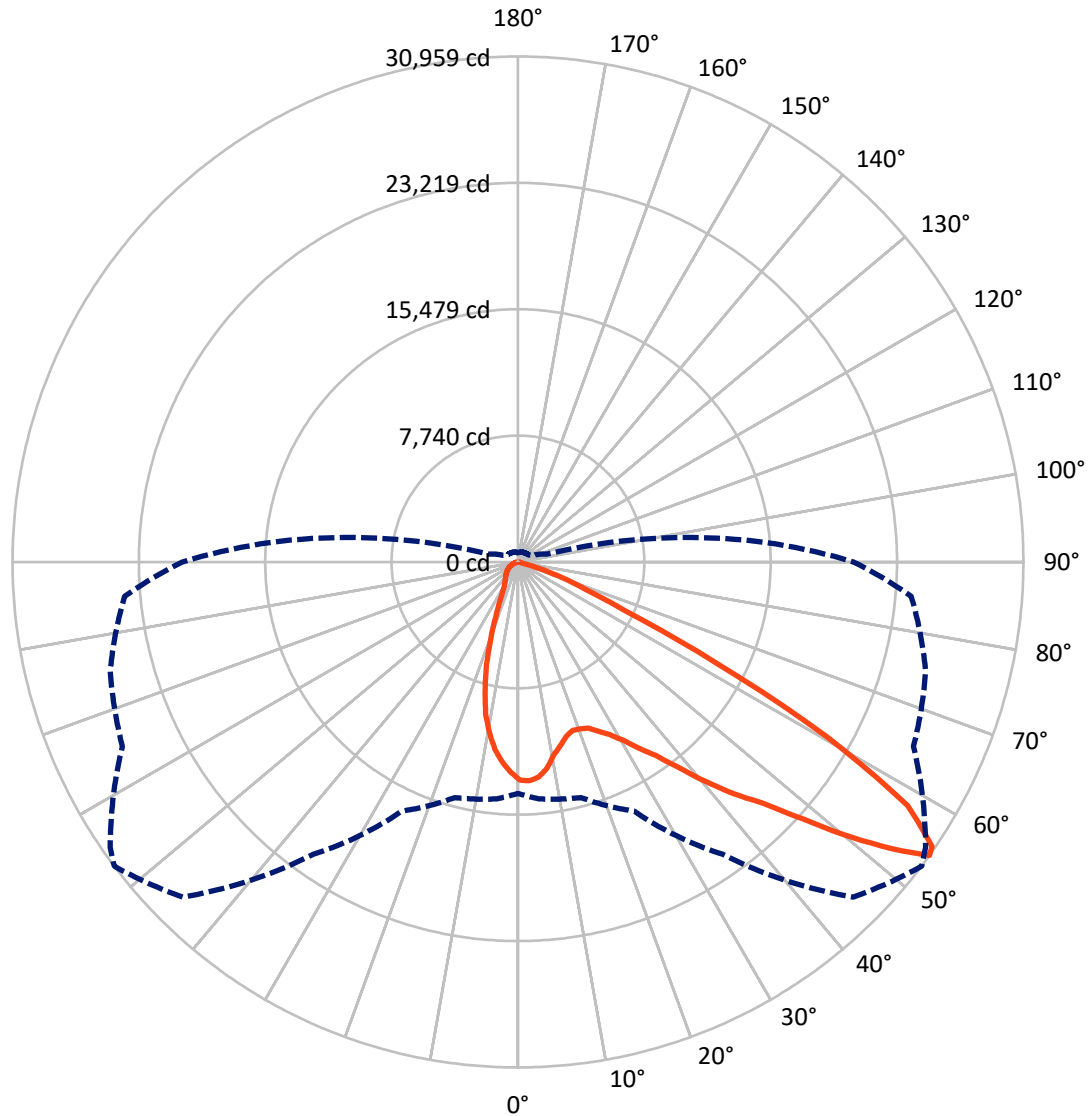
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6155.0 | 0.0 | 6155.0 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 31046.0 | 0.0 | 31046.0 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 37201.0 | 0.0 | 37201.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1146.4 | 3.1 |
| 10°-20° | 2628.4 | 7.1 |
| 20°-30° | 3735.5 | 10.0 |
| 30°-40° | 5764.9 | 15.5 |
| 40°-50° | 9038.8 | 24.3 |
| 50°-60° | 10499.8 | 28.2 |
| 60°-70° | 3967.5 | 10.7 |
| 70°-80° | 377.3 | 1.0 |
| 80°-90° | 42.5 | 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° | 37201.0 | 100.0 |
| 0°-180° | 37201.0 | 100.0 |

Coefficient of Utilization



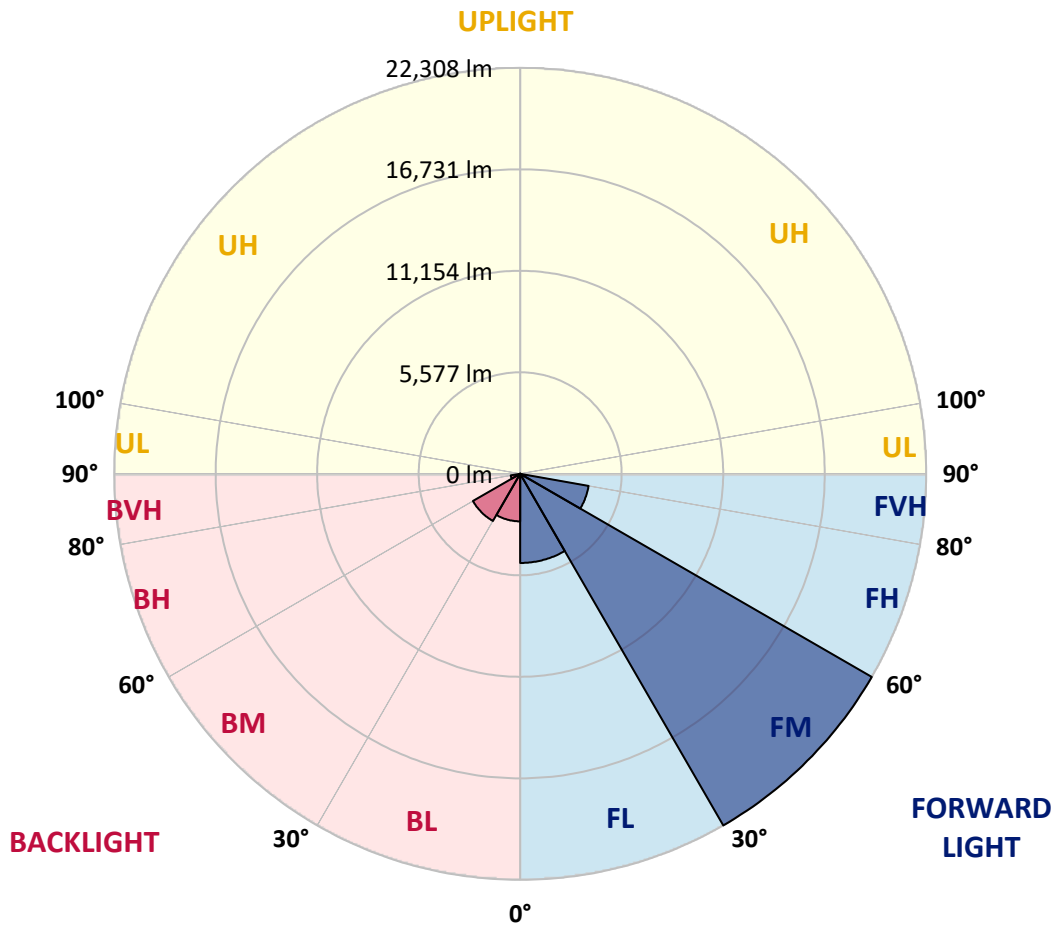
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4898.4 | 13.2 | | | |
| FM (30°-60°) | 22308.3 | 60.0 | | | |
| FH (60°-80°) | 3817.4 | 10.3 | | | G2/5000 |
| FVH (80°-90°) | 21.9 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2611.9 | 7.0 | B4/5000 | | |
| BM (30°-60°) | 2995.2 | 8.1 | B3/5000 | | |
| BH (60°-80°) | 527.3 | 1.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 20.5 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13362.0 | 13362.0 | 13362.0 | 13362.0 | 13362.0 | 13362.0 | 13362.0 | 13362.0 | 13362.0 | 13362.0 | 13362.0 |
| 2.5° | 13292.7 | 13174.8 | 13292.7 | 13306.5 | 13389.7 | 13465.9 | 13417.4 | 13528.3 | 13465.9 | 13396.6 | 13375.8 |
| 5° | 12218.4 | 12377.8 | 12384.8 | 12634.3 | 12578.8 | 13036.2 | 13237.2 | 13181.8 | 13521.4 | 13500.6 | 13452.1 |
| 7.5° | 11255.1 | 11192.7 | 11275.9 | 11567.0 | 11934.3 | 12461.0 | 12752.1 | 12745.2 | 13230.3 | 13576.8 | 13542.2 |
| 10° | 10361.1 | 10354.1 | 10527.4 | 10756.1 | 11068.0 | 11622.4 | 12024.4 | 12225.4 | 12980.8 | 13507.5 | 13583.7 |
| 12.5° | 9758.1 | 9730.4 | 9917.5 | 10104.6 | 10596.7 | 11026.4 | 11539.3 | 11636.3 | 12502.6 | 13264.9 | 13389.7 |
| 15° | 9363.1 | 9425.5 | 9439.3 | 9799.7 | 10111.6 | 10679.9 | 11081.8 | 11282.8 | 12280.8 | 13070.9 | 13549.1 |
| 17.5° | 9293.8 | 9376.9 | 9383.9 | 9681.9 | 10014.5 | 10492.8 | 10846.2 | 11116.5 | 12093.7 | 13167.9 | 13556.0 |
| 20° | 9432.4 | 9383.9 | 9425.5 | 9612.6 | 9938.3 | 10395.7 | 10908.6 | 10998.7 | 12031.3 | 13216.4 | 13632.3 |
| 22.5° | 9827.4 | 9813.6 | 9709.6 | 9862.1 | 10090.8 | 10569.0 | 11054.1 | 11192.7 | 12211.5 | 13465.9 | 13694.6 |
| 25° | 10264.0 | 10340.3 | 10243.3 | 10222.5 | 10381.9 | 10853.1 | 11497.7 | 11677.9 | 12814.5 | 13916.4 | 13888.7 |
| 27.5° | 11081.8 | 11005.6 | 11005.6 | 10908.6 | 10867.0 | 11095.7 | 11975.9 | 12273.9 | 13486.7 | 14498.6 | 14110.5 |
| 30° | 11865.0 | 11948.2 | 11885.8 | 11920.4 | 11643.2 | 11622.4 | 12655.1 | 13022.4 | 14678.8 | 15385.7 | 14581.7 |
| 32.5° | 13105.5 | 12994.7 | 13098.6 | 13008.5 | 12641.2 | 12267.0 | 13576.8 | 13958.0 | 16120.3 | 16404.5 | 15288.6 |
| 35° | 14138.2 | 14089.7 | 14533.2 | 14519.4 | 13923.3 | 13556.0 | 14554.0 | 15122.3 | 17125.2 | 17624.2 | 16120.3 |
| 37.5° | 15607.4 | 15517.4 | 16023.3 | 16265.8 | 15732.2 | 15184.7 | 15954.0 | 16612.4 | 18060.8 | 18601.4 | 16972.8 |
| 40° | 17118.3 | 17347.0 | 18026.2 | 18428.2 | 17859.9 | 17132.2 | 17665.8 | 17866.8 | 18684.6 | 19239.0 | 17554.9 |
| 42.5° | 19031.1 | 19363.8 | 20056.8 | 20403.3 | 20354.8 | 19564.8 | 19405.4 | 19398.4 | 19135.1 | 19058.8 | 17984.6 |
| 45° | 20867.7 | 20742.9 | 21810.2 | 22565.7 | 23175.5 | 22946.8 | 21082.5 | 20874.6 | 19848.9 | 19329.1 | 18095.5 |
| 47.5° | 21671.6 | 21630.0 | 22357.7 | 23702.3 | 25781.4 | 26065.5 | 23522.1 | 22718.1 | 21054.8 | 20465.7 | 18698.4 |
| 50° | 20632.0 | 20846.9 | 21567.7 | 23057.7 | 26245.7 | 28415.0 | 26516.0 | 25434.9 | 22461.7 | 21851.8 | 20126.1 |
| 52.5° | 17236.1 | 17381.7 | 18067.8 | 19959.8 | 24665.6 | 29801.1 | 29385.2 | 28761.5 | 25046.8 | 24034.9 | 22614.2 |
| 54° | 14172.8 | 14560.9 | 14935.2 | 16834.1 | 21851.8 | 29031.8 | 30958.5 | 30480.3 | 26730.9 | 25850.7 | 24180.5 |
| 55° | 12343.2 | 12571.9 | 12842.2 | 14734.2 | 19904.3 | 27728.9 | 30778.3 | 30819.9 | 27860.5 | 26419.0 | 25233.9 |
| 57.5° | 9016.6 | 9176.0 | 8898.7 | 9737.3 | 13666.9 | 22517.1 | 28151.6 | 29274.4 | 29385.2 | 27271.5 | 25878.4 |
| 60° | 6888.9 | 6958.2 | 6646.3 | 6778.0 | 8496.8 | 15455.0 | 21775.6 | 23127.0 | 26509.1 | 23833.9 | 21921.1 |
| 62.5° | 5343.4 | 5357.3 | 5350.3 | 5579.0 | 5856.3 | 9092.8 | 13618.4 | 14817.4 | 18275.7 | 16924.2 | 14886.7 |
| 65° | 3936.5 | 3874.1 | 3985.0 | 4678.1 | 4996.9 | 5717.6 | 7173.1 | 8046.3 | 9931.4 | 8385.9 | 5994.9 |
| 67.5° | 2550.4 | 2571.2 | 2682.1 | 3479.1 | 4283.0 | 4387.0 | 4414.7 | 4345.4 | 4352.3 | 2397.9 | 1503.9 |
| 70° | 1531.6 | 1566.3 | 1531.6 | 1968.3 | 3063.3 | 3146.4 | 2876.2 | 2806.8 | 2190.0 | 568.3 | 561.4 |
| 72.5° | 907.9 | 859.4 | 769.3 | 845.5 | 1275.2 | 1524.7 | 1372.2 | 1365.3 | 859.4 | 332.7 | 332.7 |
| 75° | 381.2 | 346.5 | 284.1 | 256.4 | 339.6 | 325.7 | 325.7 | 291.1 | 228.7 | 221.8 | 207.9 |
| 77.5° | 76.2 | 76.2 | 55.4 | 62.4 | 83.2 | 97.0 | 117.8 | 117.8 | 138.6 | 138.6 | 131.7 |
| 80° | 0.0 | 6.9 | 20.8 | 41.6 | 62.4 | 90.1 | 104.0 | 104.0 | 117.8 | 117.8 | 97.0 |
| 82.5° | 0.0 | 6.9 | 20.8 | 41.6 | 55.4 | 83.2 | 104.0 | 104.0 | 117.8 | 124.7 | 104.0 |
| 85° | 0.0 | 6.9 | 20.8 | 34.7 | 55.4 | 69.3 | 69.3 | 62.4 | 48.5 | 41.6 | 27.7 |
| 87.5° | 0.0 | 0.0 | 6.9 | 13.9 | 6.9 | 13.9 | 13.9 | 13.9 | 13.9 | 13.9 | 13.9 |
| 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° | 13362.0 | 13362.0 | 13362.0 | 13362.0 | 13362.0 | 13362.0 | 13362.0 | 13362.0 | 13362.0 | 13362.0 | 13362.0 |
| 2.5° | 13424.3 | 13417.4 | 13251.1 | 12980.8 | 12918.4 | 12689.7 | 12662.0 | 12523.4 | 12599.6 | 12343.2 | 12315.5 |
| 5° | 13313.5 | 13230.3 | 13029.3 | 12856.0 | 12350.1 | 11989.7 | 11705.6 | 11359.1 | 11158.1 | 11192.7 | 11061.1 |
| 7.5° | 13472.9 | 13258.0 | 12904.6 | 12301.6 | 11684.8 | 11054.1 | 10714.5 | 10007.6 | 9751.2 | 9370.0 | 9314.6 |
| 10° | 13306.5 | 13147.1 | 12599.6 | 11601.6 | 10749.2 | 9841.3 | 9044.3 | 8261.1 | 7665.1 | 7408.7 | 7353.2 |
| 12.5° | 13292.7 | 13015.4 | 12100.6 | 10991.7 | 9758.1 | 8455.2 | 7297.8 | 6320.6 | 5731.5 | 5398.8 | 5322.6 |
| 15° | 13077.8 | 12745.2 | 11539.3 | 10049.2 | 8344.3 | 6722.6 | 5461.2 | 4518.7 | 4068.2 | 3874.1 | 3929.6 |
| 17.5° | 13098.6 | 12599.6 | 10977.9 | 9051.2 | 6951.3 | 4934.5 | 3728.6 | 3243.5 | 3125.6 | 3174.2 | 3174.2 |
| 20° | 13077.8 | 12273.9 | 10298.7 | 7900.8 | 5322.6 | 3423.7 | 2737.5 | 2564.3 | 2640.5 | 2793.0 | 2758.3 |
| 22.5° | 12966.9 | 12121.4 | 9675.0 | 6687.9 | 3915.7 | 2536.6 | 2197.0 | 2203.9 | 2321.7 | 2508.8 | 2550.4 |
| 25° | 13050.1 | 11781.8 | 8884.9 | 5461.2 | 2855.4 | 2023.7 | 1905.9 | 1954.4 | 2079.1 | 2217.8 | 2245.5 |
| 27.5° | 12987.7 | 11539.3 | 8060.2 | 4241.5 | 2086.1 | 1739.6 | 1732.6 | 1788.1 | 1843.5 | 1947.5 | 1947.5 |
| 30° | 13057.0 | 11317.5 | 7249.3 | 3153.4 | 1718.8 | 1594.0 | 1566.3 | 1607.9 | 1663.3 | 1684.1 | 1677.2 |
| 32.5° | 13313.5 | 11151.1 | 6313.7 | 2356.4 | 1517.8 | 1455.4 | 1455.4 | 1455.4 | 1448.5 | 1476.2 | 1483.1 |
| 35° | 13874.8 | 11178.9 | 5488.9 | 1822.7 | 1386.1 | 1337.6 | 1316.8 | 1289.1 | 1275.2 | 1289.1 | 1296.0 |
| 37.5° | 14484.7 | 11165.0 | 4636.5 | 1552.4 | 1289.1 | 1247.5 | 1199.0 | 1157.4 | 1150.5 | 1164.3 | 1143.5 |
| 40° | 14755.0 | 11296.7 | 3846.4 | 1393.0 | 1199.0 | 1150.5 | 1074.2 | 1039.6 | 1046.5 | 1060.4 | 1046.5 |
| 42.5° | 15122.3 | 11338.3 | 3333.6 | 1268.3 | 1115.8 | 1039.6 | 991.1 | 949.5 | 942.5 | 963.3 | 956.4 |
| 45° | 15115.4 | 11102.6 | 2793.0 | 1199.0 | 1039.6 | 956.4 | 894.0 | 859.4 | 859.4 | 873.2 | 880.2 |
| 47.5° | 15558.9 | 11068.0 | 2397.9 | 1136.6 | 984.1 | 901.0 | 824.7 | 797.0 | 790.1 | 790.1 | 776.2 |
| 50° | 16591.6 | 11553.1 | 2093.0 | 1067.3 | 914.8 | 838.6 | 776.2 | 741.6 | 713.8 | 700.0 | 693.0 |
| 52.5° | 18608.3 | 13064.0 | 1857.4 | 984.1 | 838.6 | 776.2 | 720.8 | 693.0 | 658.4 | 623.7 | 616.8 |
| 54° | 20562.7 | 14623.3 | 1843.5 | 914.8 | 776.2 | 734.6 | 686.1 | 672.3 | 630.7 | 582.2 | 568.3 |
| 55° | 21442.9 | 15531.2 | 1892.0 | 859.4 | 734.6 | 706.9 | 665.3 | 651.5 | 609.9 | 554.4 | 547.5 |
| 57.5° | 22170.6 | 15884.7 | 1864.3 | 713.8 | 665.3 | 658.4 | 623.7 | 603.0 | 554.4 | 478.2 | 464.3 |
| 60° | 17846.0 | 12010.5 | 1337.6 | 630.7 | 609.9 | 596.0 | 568.3 | 554.4 | 492.1 | 408.9 | 402.0 |
| 62.5° | 11275.9 | 6909.7 | 852.4 | 554.4 | 533.6 | 512.9 | 478.2 | 464.3 | 408.9 | 325.7 | 304.9 |
| 65° | 4802.8 | 2862.3 | 575.2 | 492.1 | 457.4 | 422.8 | 395.0 | 374.2 | 325.7 | 242.6 | 235.6 |
| 67.5° | 1247.5 | 1018.8 | 478.2 | 429.7 | 381.2 | 332.7 | 311.9 | 277.2 | 221.8 | 166.3 | 159.4 |
| 70° | 561.4 | 512.9 | 402.0 | 360.4 | 304.9 | 256.4 | 228.7 | 194.1 | 145.5 | 110.9 | 104.0 |
| 72.5° | 332.7 | 325.7 | 304.9 | 270.3 | 228.7 | 194.1 | 166.3 | 131.7 | 97.0 | 62.4 | 62.4 |
| 75° | 207.9 | 201.0 | 207.9 | 187.1 | 159.4 | 145.5 | 124.7 | 90.1 | 55.4 | 27.7 | 27.7 |
| 77.5° | 124.7 | 124.7 | 124.7 | 117.8 | 110.9 | 110.9 | 90.1 | 55.4 | 27.7 | 6.9 | 6.9 |
| 80° | 97.0 | 97.0 | 104.0 | 97.0 | 97.0 | 97.0 | 76.2 | 41.6 | 13.9 | 0.0 | 0.0 |
| 82.5° | 97.0 | 104.0 | 117.8 | 110.9 | 97.0 | 83.2 | 69.3 | 41.6 | 13.9 | 0.0 | 0.0 |
| 85° | 27.7 | 20.8 | 34.7 | 48.5 | 69.3 | 62.4 | 48.5 | 34.7 | 13.9 | 0.0 | 0.0 |
| 87.5° | 13.9 | 13.9 | 13.9 | 13.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 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)