

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: EPHESUS

Report Number: P638704

Luminaire Tested: **EPH-VN-06-E-930-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638704
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-06-E-930-U-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (96) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31810.1 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

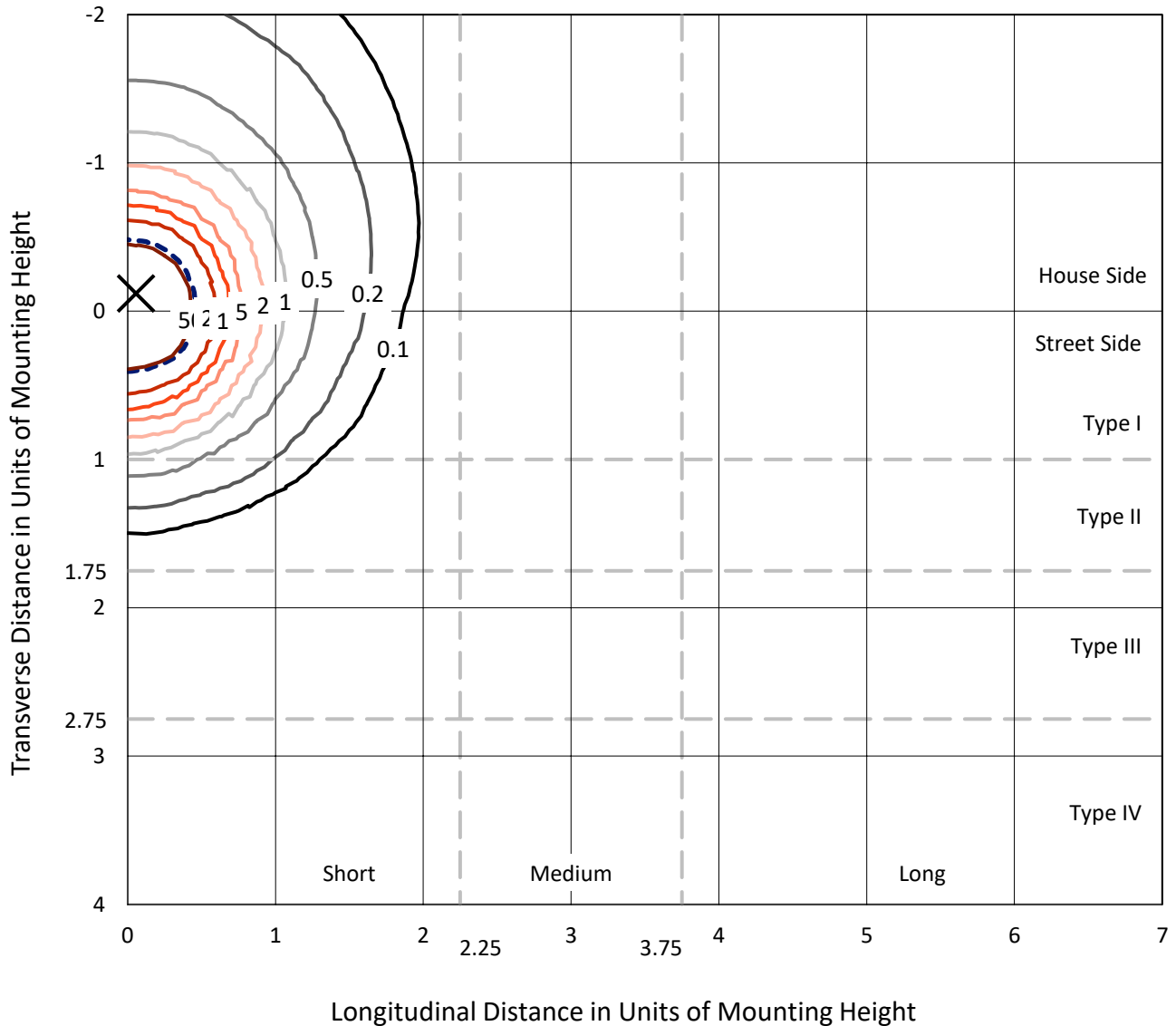
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

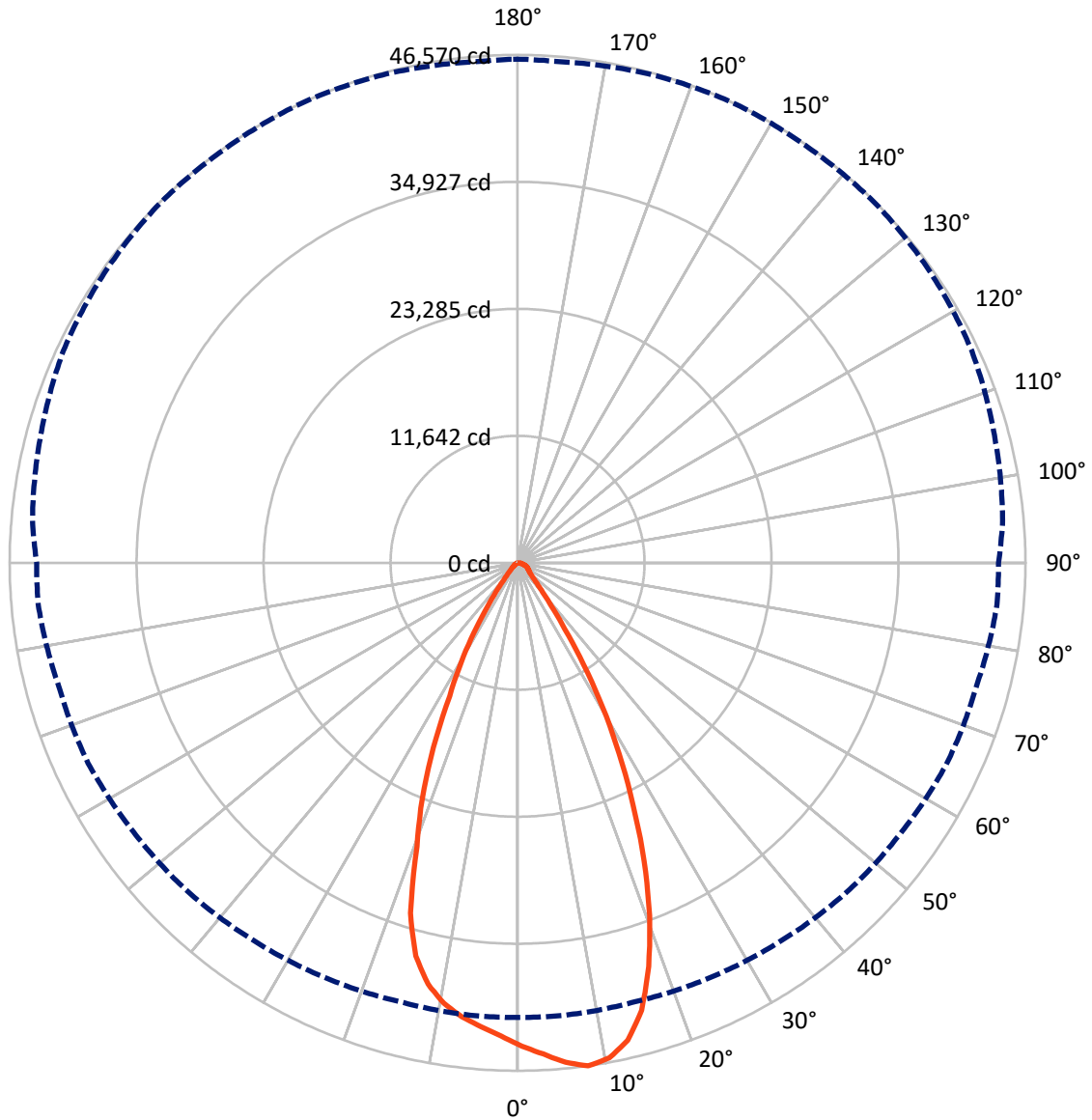
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 112.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 7.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 17560.4 | 0.0 | 17560.4 |
| | % Fixture | 55.2 | 0.0 | 55.2 |
| Street Side | Lumens | 14249.8 | 0.0 | 14249.8 |
| | % Fixture | 44.8 | 0.0 | 44.8 |
| Total | Lumens | 31810.1 | 0.0 | 31810.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 4225.6 | 13.3 |
| 10°-20° | 10957.1 | 34.4 |
| 20°-30° | 10039.7 | 31.6 |
| 30°-40° | 4056.1 | 12.8 |
| 40°-50° | 1189.9 | 3.7 |
| 50°-60° | 665.3 | 2.1 |
| 60°-70° | 404.1 | 1.3 |
| 70°-80° | 205.3 | 0.6 |
| 80°-90° | 67.1 | 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° | 31810.1 | 100.0 |
| 0°-180° | 31810.1 | 100.0 |



REPORT NUMBER: P638704

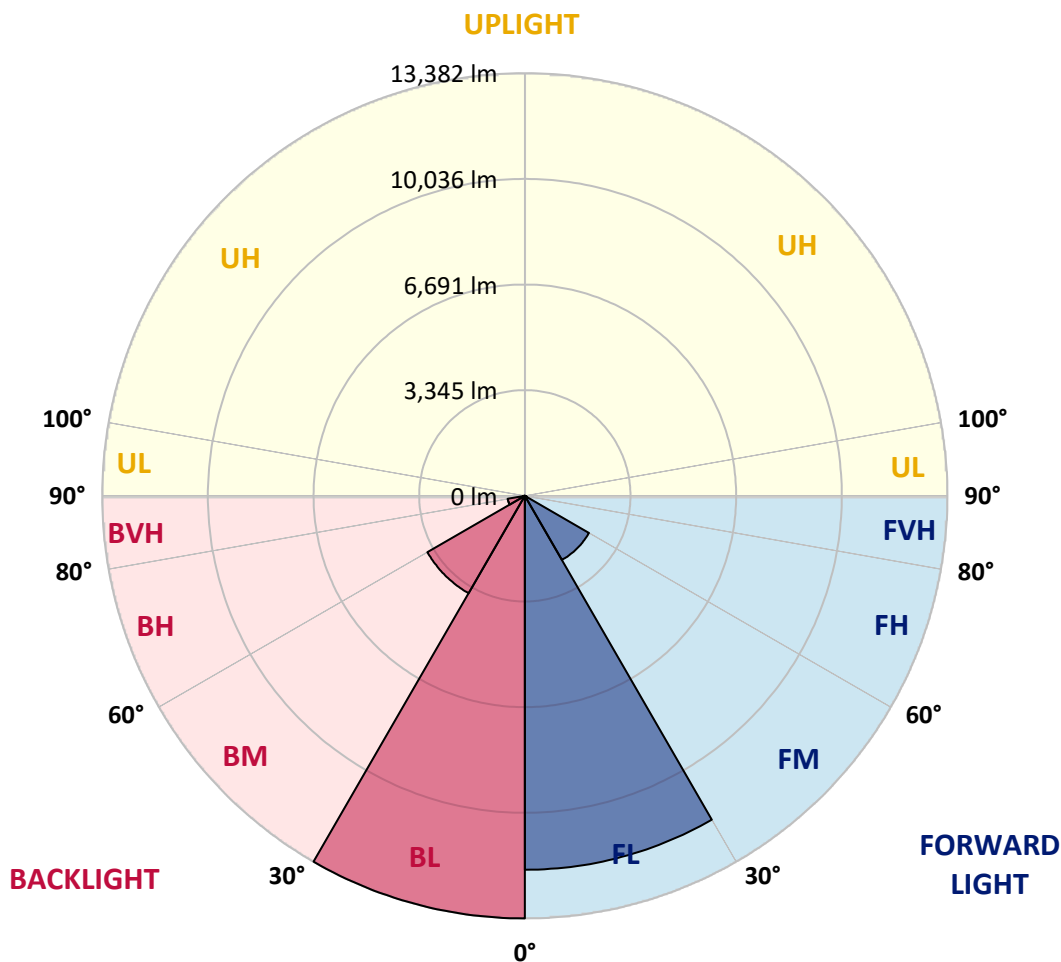
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 11840.5 | 37.2 | | | |
| FM (30°-60°) | 2346.6 | 7.4 | | | |
| FH (60°-80°) | 56.8 | 0.2 | | | G0/660 |
| FVH (80°-90°) | 5.8 | 0.0 | | | G0/10 |
| BL (0°-30°) | 13381.9 | 42.1 | B5 | | |
| BM (30°-60°) | 3564.6 | 11.2 | B3/5000 | | |
| BH (60°-80°) | 552.5 | 1.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 61.3 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 44314.0 | 44314.0 | 44314.0 | 44314.0 | 44314.0 | 44314.0 | 44314.0 | 44314.0 | 44314.0 | 44314.0 |
| 2.5° | 43353.0 | 43499.7 | 43206.2 | 43400.6 | 43551.0 | 43910.5 | 43939.9 | 44064.6 | 44108.6 | 44435.0 |
| 5° | 42531.3 | 42645.0 | 42406.6 | 42667.0 | 42879.8 | 43198.9 | 43444.7 | 43789.5 | 43980.2 | 44365.4 |
| 7.5° | 41676.7 | 41702.3 | 41654.6 | 41929.8 | 42248.9 | 42689.0 | 42993.5 | 43444.7 | 43562.0 | 44112.3 |
| 10° | 40642.3 | 40455.2 | 40546.9 | 40950.4 | 41427.2 | 42102.1 | 42311.2 | 42762.4 | 42971.5 | 43532.7 |
| 12.5° | 38991.6 | 39087.0 | 38973.3 | 39486.8 | 39883.0 | 40649.6 | 40869.7 | 41324.5 | 41724.3 | 42219.5 |
| 15° | 36666.1 | 36611.0 | 36842.1 | 37242.0 | 37671.1 | 38280.0 | 38635.8 | 39131.0 | 39435.5 | 39949.0 |
| 17.5° | 31439.1 | 31626.1 | 32579.8 | 33581.2 | 34461.6 | 35173.2 | 35598.7 | 36009.5 | 36229.6 | 36787.1 |
| 20° | 27151.1 | 26916.3 | 27044.7 | 27609.6 | 30114.9 | 31204.3 | 31651.8 | 31750.8 | 31842.5 | 32282.7 |
| 22.5° | 22356.9 | 22279.9 | 22709.0 | 23343.6 | 23937.8 | 26450.5 | 27059.4 | 26828.3 | 27019.0 | 27433.5 |
| 25° | 16601.7 | 16990.5 | 17372.0 | 18589.8 | 19360.1 | 20592.6 | 21748.0 | 21850.7 | 21920.4 | 22180.8 |
| 27.5° | 13513.2 | 13377.5 | 13370.1 | 13711.3 | 14848.4 | 15875.4 | 16858.5 | 17085.9 | 17045.5 | 17295.0 |
| 30° | 10622.7 | 10578.7 | 10424.7 | 10505.4 | 10391.7 | 11305.0 | 11767.2 | 12702.5 | 12651.2 | 12658.5 |
| 32.5° | 7662.6 | 7497.5 | 7435.2 | 7556.2 | 7438.9 | 7354.5 | 7758.0 | 8814.4 | 8796.0 | 8869.4 |
| 35° | 4636.4 | 4614.4 | 4665.8 | 4772.2 | 4537.4 | 4530.1 | 4614.4 | 5608.5 | 5729.5 | 5846.9 |
| 37.5° | 2560.3 | 2538.3 | 2578.7 | 2971.1 | 2894.1 | 2824.4 | 2846.4 | 3371.0 | 3719.4 | 3807.5 |
| 40° | 1687.3 | 1683.6 | 1713.0 | 1782.7 | 1914.7 | 1889.1 | 1900.1 | 2134.8 | 2464.9 | 2542.0 |
| 42.5° | 1129.8 | 1133.4 | 1151.8 | 1232.5 | 1250.8 | 1382.9 | 1360.9 | 1415.9 | 1724.0 | 1790.0 |
| 45° | 902.3 | 898.7 | 909.7 | 873.0 | 895.0 | 1030.7 | 1045.4 | 1049.1 | 1313.2 | 1353.5 |
| 47.5° | 711.6 | 711.6 | 722.6 | 674.9 | 663.9 | 748.3 | 825.3 | 836.3 | 1049.1 | 1104.1 |
| 50° | 498.9 | 498.9 | 553.9 | 531.9 | 557.5 | 583.2 | 667.6 | 678.6 | 858.3 | 917.0 |
| 52.5° | 366.8 | 374.1 | 381.5 | 385.1 | 469.5 | 465.8 | 539.2 | 590.6 | 649.2 | 752.0 |
| 55° | 278.8 | 286.1 | 267.8 | 286.1 | 348.5 | 388.8 | 403.5 | 476.8 | 517.2 | 630.9 |
| 57.5° | 183.4 | 201.7 | 187.1 | 220.1 | 234.8 | 300.8 | 322.8 | 392.5 | 418.2 | 517.2 |
| 60° | 25.7 | 29.3 | 47.7 | 154.1 | 165.1 | 198.1 | 249.4 | 311.8 | 337.5 | 421.8 |
| 62.5° | 3.7 | 3.7 | 11.0 | 25.7 | 110.0 | 132.1 | 187.1 | 216.4 | 249.4 | 315.5 |
| 65° | 0.0 | 0.0 | 3.7 | 7.3 | 22.0 | 77.0 | 95.4 | 117.4 | 172.4 | 227.4 |
| 67.5° | 0.0 | 0.0 | 3.7 | 7.3 | 11.0 | 25.7 | 40.3 | 77.0 | 99.0 | 157.7 |
| 70° | 0.0 | 0.0 | 3.7 | 7.3 | 11.0 | 14.7 | 22.0 | 29.3 | 58.7 | 91.7 |
| 72.5° | 0.0 | 0.0 | 3.7 | 7.3 | 11.0 | 14.7 | 18.3 | 22.0 | 25.7 | 58.7 |
| 75° | 0.0 | 0.0 | 3.7 | 7.3 | 11.0 | 18.3 | 22.0 | 22.0 | 22.0 | 25.7 |
| 77.5° | 0.0 | 0.0 | 3.7 | 7.3 | 14.7 | 22.0 | 25.7 | 22.0 | 18.3 | 18.3 |
| 80° | 0.0 | 0.0 | 3.7 | 11.0 | 18.3 | 25.7 | 29.3 | 22.0 | 14.7 | 11.0 |
| 82.5° | 0.0 | 0.0 | 3.7 | 11.0 | 18.3 | 25.7 | 29.3 | 25.7 | 14.7 | 11.0 |
| 85° | 0.0 | 0.0 | 3.7 | 11.0 | 14.7 | 18.3 | 29.3 | 25.7 | 14.7 | 7.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 3.7 | 3.7 | 7.3 | 14.7 | 11.0 | 7.3 | 3.7 |
| 90° | 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° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 44314.0 | 0° | 44314.0 | 44314.0 | 44314.0 | 44314.0 | 44314.0 | 44314.0 | 44314.0 | 44314.0 | 44314.0 |
| 44427.7 | 2.5° | 44757.8 | 44922.9 | 45212.7 | 45293.4 | 45542.8 | 45256.7 | 45099.0 | 45113.6 | 44772.5 |
| 44317.7 | 5° | 44757.8 | 45135.6 | 45641.8 | 45883.9 | 46067.3 | 46052.7 | 46012.3 | 45909.6 | 45660.2 |
| 44097.6 | 7.5° | 44640.5 | 45256.7 | 45953.6 | 46276.4 | 46496.5 | 46478.2 | 46569.9 | 46404.8 | 46100.3 |
| 43705.1 | 10° | 44262.6 | 44798.2 | 45656.5 | 45920.6 | 46276.4 | 46283.8 | 46170.0 | 46203.1 | 45660.2 |
| 42270.9 | 12.5° | 43074.2 | 43492.3 | 44244.3 | 44545.1 | 44977.9 | 45047.6 | 44922.9 | 44875.2 | 44361.7 |
| 39919.6 | 15° | 40774.3 | 41016.4 | 41772.0 | 42072.8 | 42502.0 | 42443.3 | 42568.0 | 42516.6 | 42065.5 |
| 36743.1 | 17.5° | 37410.7 | 37487.7 | 38280.0 | 38533.1 | 38936.6 | 39094.3 | 38907.3 | 39145.7 | 38756.9 |
| 32359.7 | 20° | 32587.2 | 33001.7 | 33893.0 | 34281.8 | 34516.6 | 34799.0 | 34553.3 | 34821.0 | 34366.2 |
| 27041.0 | 22.5° | 27694.0 | 27939.7 | 28746.7 | 29307.9 | 29744.4 | 29799.4 | 29707.7 | 29894.8 | 29282.2 |
| 22353.2 | 25° | 22349.6 | 22756.7 | 23395.0 | 24128.6 | 24557.8 | 24821.9 | 24583.4 | 24704.5 | 24605.4 |
| 17335.3 | 27.5° | 17628.8 | 17991.9 | 18472.4 | 19019.0 | 19664.5 | 20009.3 | 19818.6 | 20024.0 | 19539.8 |
| 12926.3 | 30° | 12937.3 | 13120.7 | 13663.6 | 14243.1 | 14951.1 | 15369.2 | 15387.6 | 15596.6 | 15310.5 |
| 9056.5 | 32.5° | 9122.5 | 9283.9 | 9617.7 | 10002.8 | 10677.8 | 11143.6 | 11070.2 | 11099.6 | 10923.5 |
| 5901.9 | 35° | 5931.3 | 6147.7 | 6386.1 | 6569.5 | 6976.7 | 7490.2 | 7449.9 | 7413.2 | 7292.1 |
| 3880.8 | 37.5° | 3965.2 | 4049.6 | 4181.6 | 4346.7 | 4610.8 | 4933.6 | 5039.9 | 4907.9 | 4856.5 |
| 2619.0 | 40° | 2681.4 | 2828.1 | 2916.1 | 3040.8 | 3165.5 | 3437.0 | 3510.3 | 3484.7 | 3433.3 |
| 1834.0 | 42.5° | 1903.7 | 2017.4 | 2127.5 | 2248.5 | 2314.6 | 2483.3 | 2626.3 | 2586.0 | 2564.0 |
| 1393.9 | 45° | 1445.2 | 1547.9 | 1676.3 | 1768.0 | 1834.0 | 1933.1 | 2068.8 | 2083.5 | 2050.5 |
| 1118.8 | 47.5° | 1159.1 | 1250.8 | 1353.5 | 1467.2 | 1544.3 | 1606.6 | 1724.0 | 1768.0 | 1746.0 |
| 942.7 | 50° | 983.0 | 1052.7 | 1151.8 | 1265.5 | 1349.9 | 1404.9 | 1507.6 | 1555.3 | 1540.6 |
| 788.6 | 52.5° | 836.3 | 920.7 | 1012.4 | 1107.8 | 1210.5 | 1265.5 | 1360.9 | 1430.5 | 1419.5 |
| 652.9 | 55° | 693.3 | 803.3 | 898.7 | 994.0 | 1111.4 | 1166.4 | 1250.8 | 1342.5 | 1324.2 |
| 553.9 | 57.5° | 605.2 | 696.9 | 796.0 | 887.7 | 1012.4 | 1085.7 | 1162.8 | 1258.1 | 1254.5 |
| 454.8 | 60° | 506.2 | 597.9 | 707.9 | 785.0 | 917.0 | 1019.7 | 1089.4 | 1188.5 | 1195.8 |
| 344.8 | 62.5° | 403.5 | 517.2 | 601.6 | 707.9 | 829.0 | 950.0 | 1016.1 | 1115.1 | 1151.8 |
| 264.1 | 65° | 300.8 | 425.5 | 520.9 | 627.2 | 741.0 | 876.7 | 935.4 | 1034.4 | 1071.1 |
| 190.7 | 67.5° | 223.8 | 319.1 | 440.2 | 531.9 | 660.3 | 777.6 | 847.3 | 939.0 | 964.7 |
| 113.7 | 70° | 168.7 | 245.8 | 366.8 | 447.5 | 579.6 | 674.9 | 744.6 | 814.3 | 847.3 |
| 77.0 | 72.5° | 99.0 | 183.4 | 289.8 | 385.1 | 498.9 | 579.6 | 630.9 | 685.9 | 707.9 |
| 36.7 | 75° | 69.7 | 139.4 | 227.4 | 319.1 | 403.5 | 469.5 | 517.2 | 564.9 | 586.9 |
| 18.3 | 77.5° | 36.7 | 102.7 | 179.7 | 256.8 | 315.5 | 370.5 | 418.2 | 454.8 | 469.5 |
| 14.7 | 80° | 22.0 | 73.4 | 146.7 | 201.7 | 242.1 | 289.8 | 337.5 | 363.1 | 359.5 |
| 11.0 | 82.5° | 14.7 | 58.7 | 106.4 | 146.7 | 176.1 | 212.7 | 245.8 | 264.1 | 264.1 |
| 7.3 | 85° | 11.0 | 40.3 | 73.4 | 113.7 | 117.4 | 146.7 | 154.1 | 172.4 | 176.1 |
| 7.3 | 87.5° | 7.3 | 25.7 | 40.3 | 66.0 | 62.4 | 77.0 | 80.7 | 91.7 | 99.0 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



| 180° |
|---------|
| 44314.0 |
| 44497.4 |
| 45740.9 |
| 46170.0 |
| 45502.5 |
| 44244.3 |
| 42208.5 |
| 38661.5 |
| 34329.5 |
| 29197.9 |
| 24543.1 |
| 19664.5 |
| 15361.9 |
| 11022.6 |
| 7185.8 |
| 4845.5 |
| 3440.7 |
| 2545.6 |
| 2046.8 |
| 1735.0 |
| 1536.9 |
| 1412.2 |
| 1324.2 |
| 1250.8 |
| 1195.8 |
| 1148.1 |
| 1067.4 |
| 964.7 |
| 840.0 |
| 700.6 |
| 579.6 |
| 465.8 |
| 355.8 |
| 260.4 |
| 172.4 |
| 95.4 |
| 0.0 |

(END OF REPORT)