

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: P638709

Luminaire Tested: **EPH-VN-04-E-935-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638709
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-04-E-935-U-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (64) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21814.5 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

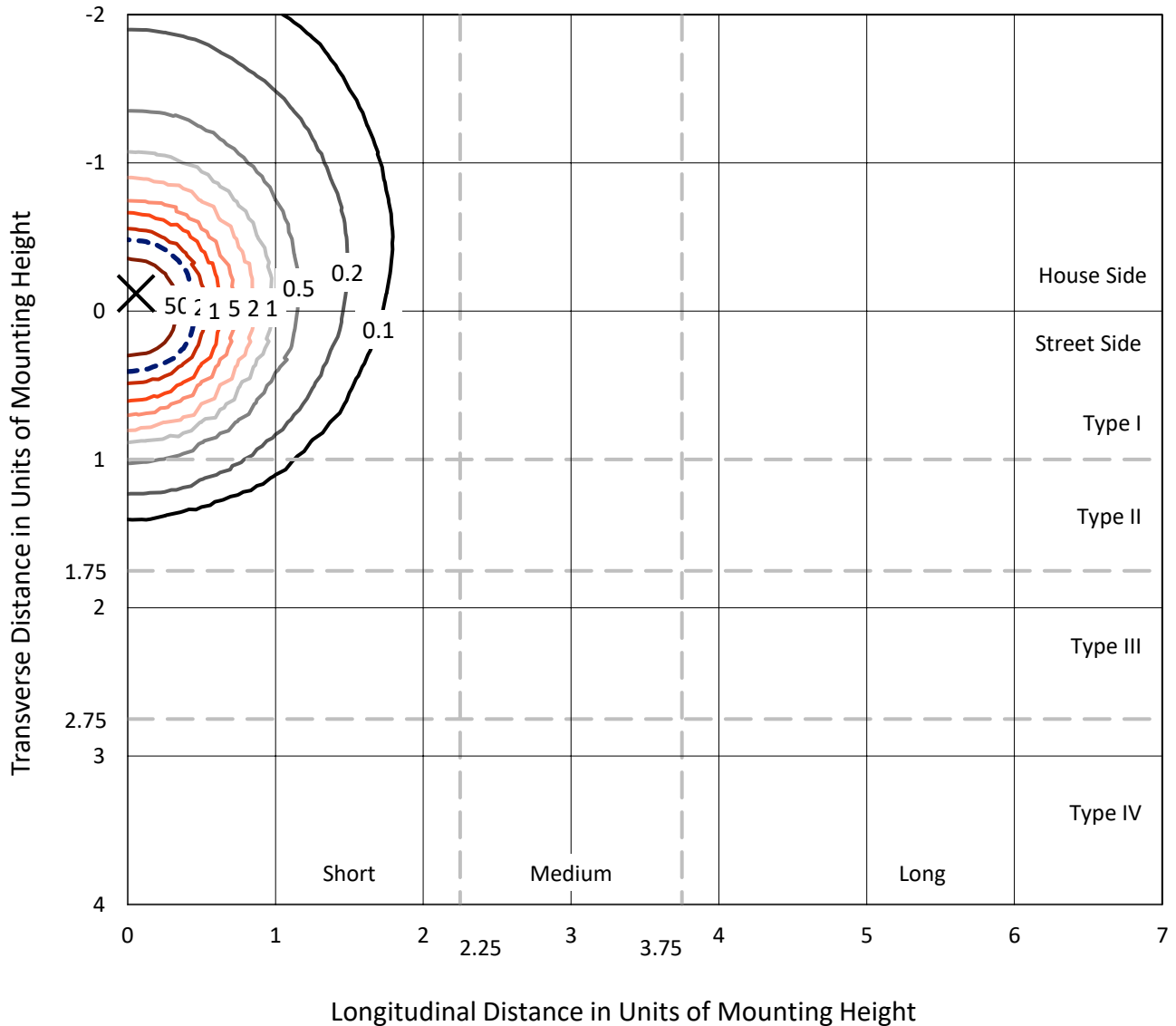
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638709
 CATALOG NUMBER: EPH-VN-04-E-935-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

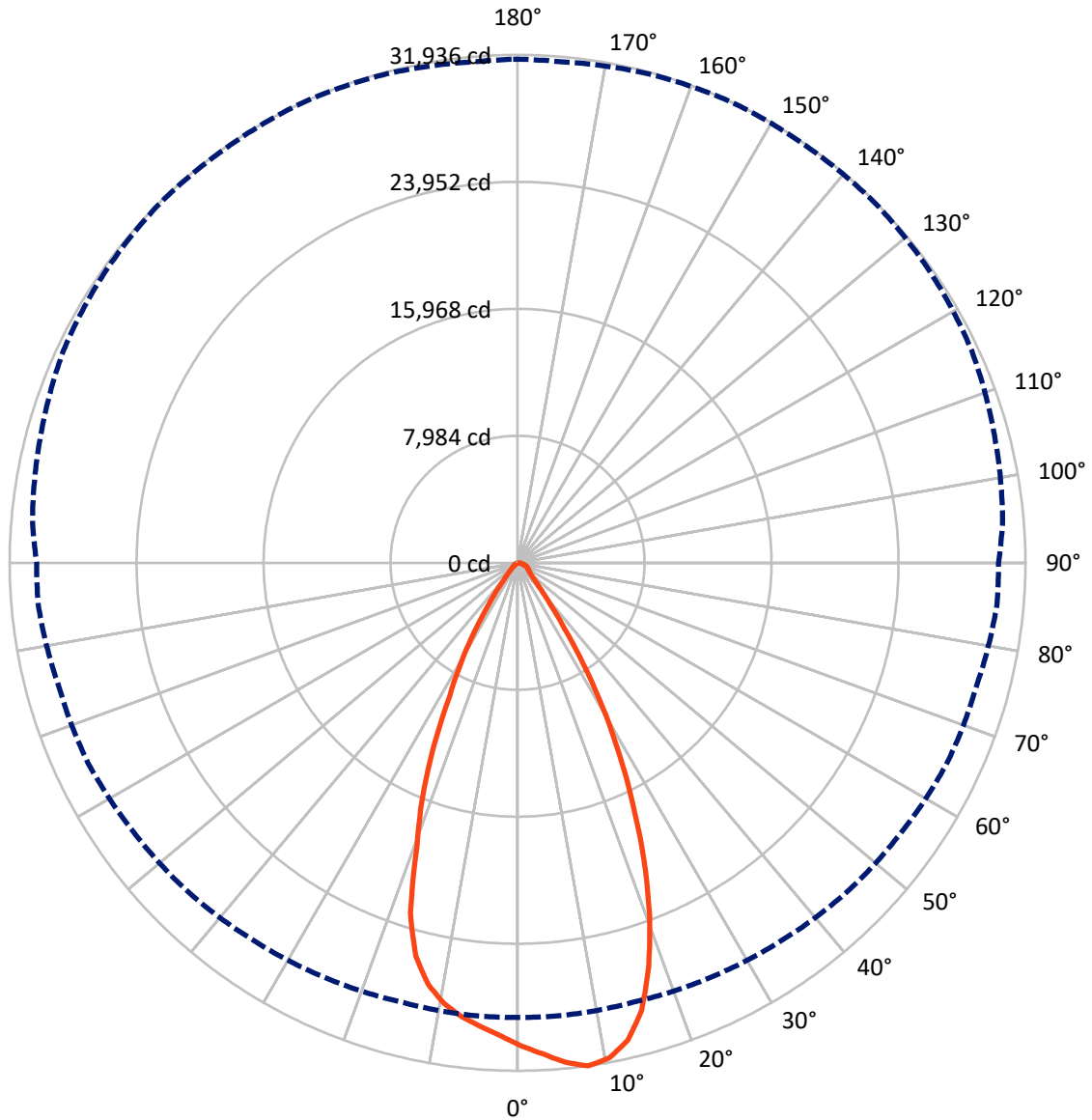
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 77.2 fc
 Type I - Short - N/A

REPORT NUMBER: P638709
CATALOG NUMBER: EPH-VN-04-E-935-U-55-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638709
 CATALOG NUMBER: EPH-VN-04-E-935-U-55-VI

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12042.4 | 0.0 | 12042.4 |
| | % Fixture | 55.2 | 0.0 | 55.2 |
| Street Side | Lumens | 9772.1 | 0.0 | 9772.1 |
| | % Fixture | 44.8 | 0.0 | 44.8 |
| Total | Lumens | 21814.5 | 0.0 | 21814.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 2897.8 | 13.3 |
| 10°-20° | 7514.1 | 34.4 |
| 20°-30° | 6885.0 | 31.6 |
| 30°-40° | 2781.5 | 12.8 |
| 40°-50° | 816.0 | 3.7 |
| 50°-60° | 456.2 | 2.1 |
| 60°-70° | 277.1 | 1.3 |
| 70°-80° | 140.8 | 0.6 |
| 80°-90° | 46.0 | 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° | 21814.5 | 100.0 |
| 0°-180° | 21814.5 | 100.0 |



REPORT NUMBER: P638709

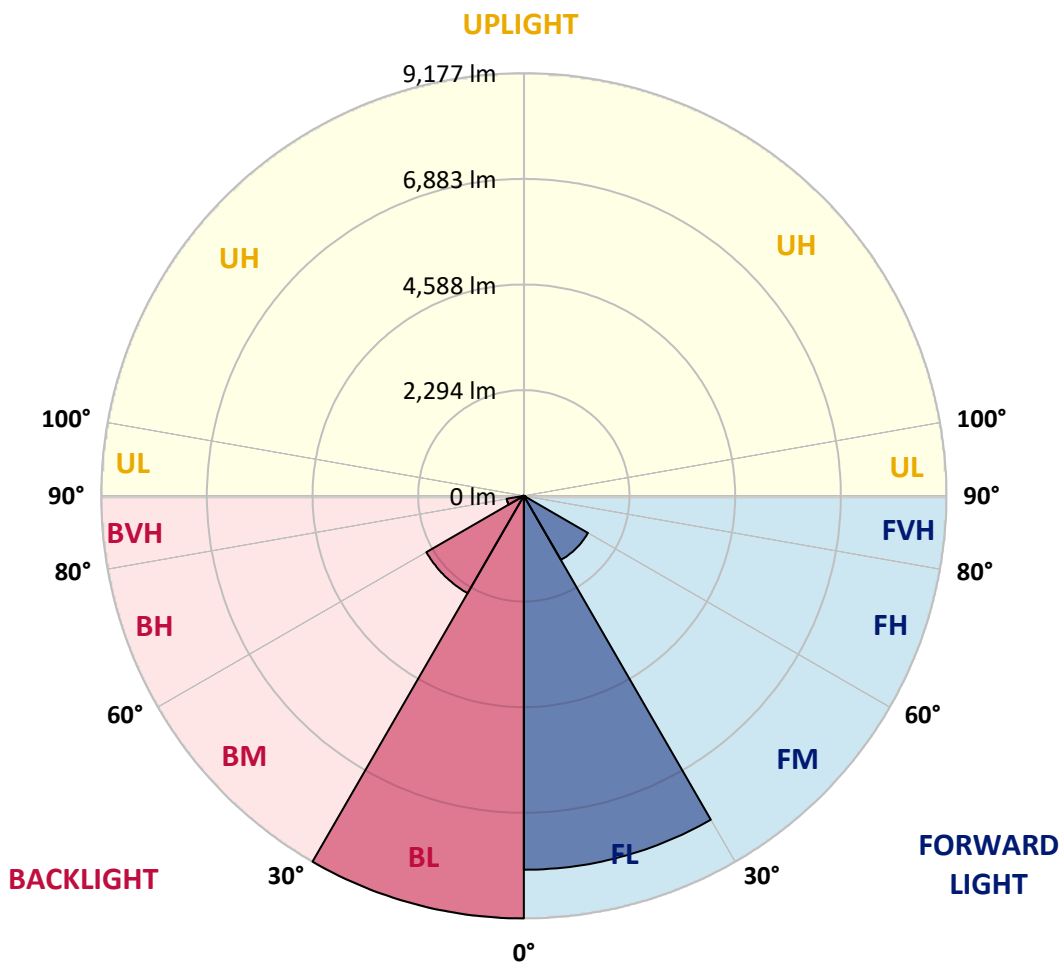
CATALOG NUMBER: EPH-VN-04-E-935-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 8119.9 | 37.2 | | | |
| FM (30°-60°) | 1609.2 | 7.4 | | | |
| FH (60°-80°) | 39.0 | 0.2 | | | G0/660 |
| FVH (80°-90°) | 4.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 9176.9 | 42.1 | B5 | | |
| BM (30°-60°) | 2444.5 | 11.2 | B2/2500 | | |
| BH (60°-80°) | 378.9 | 1.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 42.1 | 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-G1

Type I Short





REPORT NUMBER: P638709
 CATALOG NUMBER: EPH-VN-04-E-935-U-55-VI

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 30389.3 | 30389.3 | 30389.3 | 30389.3 | 30389.3 | 30389.3 | 30389.3 | 30389.3 | 30389.3 | 30389.3 |
| 2.5° | 29730.2 | 29830.9 | 29629.6 | 29762.9 | 29866.1 | 30112.6 | 30132.7 | 30218.2 | 30248.4 | 30472.3 |
| 5° | 29166.8 | 29244.7 | 29081.2 | 29259.8 | 29405.7 | 29624.6 | 29793.1 | 30029.6 | 30160.4 | 30424.5 |
| 7.5° | 28580.7 | 28598.3 | 28565.6 | 28754.2 | 28973.1 | 29274.9 | 29483.7 | 29793.1 | 29873.6 | 30250.9 |
| 10° | 27871.3 | 27743.0 | 27805.9 | 28082.6 | 28409.6 | 28872.5 | 29015.8 | 29325.2 | 29468.6 | 29853.5 |
| 12.5° | 26739.4 | 26804.8 | 26726.8 | 27078.9 | 27350.6 | 27876.3 | 28027.3 | 28339.2 | 28613.4 | 28953.0 |
| 15° | 25144.5 | 25106.8 | 25265.3 | 25539.5 | 25833.8 | 26251.4 | 26495.4 | 26834.9 | 27043.7 | 27395.9 |
| 17.5° | 21560.0 | 21688.3 | 22342.3 | 23029.0 | 23632.8 | 24120.8 | 24412.5 | 24694.3 | 24845.2 | 25227.6 |
| 20° | 18619.4 | 18458.5 | 18546.5 | 18933.9 | 20651.9 | 21399.0 | 21705.9 | 21773.8 | 21836.7 | 22138.6 |
| 22.5° | 15331.7 | 15278.9 | 15573.2 | 16008.4 | 16415.9 | 18139.0 | 18556.6 | 18398.1 | 18528.9 | 18813.1 |
| 25° | 11385.0 | 11651.6 | 11913.2 | 12748.4 | 13276.6 | 14121.8 | 14914.2 | 14984.6 | 15032.4 | 15211.0 |
| 27.5° | 9267.0 | 9173.9 | 9168.9 | 9402.8 | 10182.6 | 10886.9 | 11561.1 | 11717.0 | 11689.3 | 11860.4 |
| 30° | 7284.8 | 7254.6 | 7148.9 | 7204.3 | 7126.3 | 7752.7 | 8069.6 | 8711.0 | 8675.8 | 8680.9 |
| 32.5° | 5254.8 | 5141.6 | 5098.8 | 5181.8 | 5101.4 | 5043.5 | 5320.2 | 6044.7 | 6032.1 | 6082.4 |
| 35° | 3179.5 | 3164.4 | 3199.7 | 3272.6 | 3111.6 | 3106.6 | 3164.4 | 3846.1 | 3929.2 | 4009.6 |
| 37.5° | 1755.8 | 1740.7 | 1768.4 | 2037.5 | 1984.7 | 1936.9 | 1952.0 | 2311.7 | 2550.7 | 2611.0 |
| 40° | 1157.1 | 1154.6 | 1174.7 | 1222.5 | 1313.1 | 1295.5 | 1303.0 | 1464.0 | 1690.4 | 1743.2 |
| 42.5° | 774.8 | 777.3 | 789.9 | 845.2 | 857.8 | 948.3 | 933.2 | 971.0 | 1182.3 | 1227.5 |
| 45° | 618.8 | 616.3 | 623.8 | 598.7 | 613.8 | 706.8 | 716.9 | 719.4 | 900.5 | 928.2 |
| 47.5° | 488.0 | 488.0 | 495.5 | 462.8 | 455.3 | 513.2 | 566.0 | 573.5 | 719.4 | 757.2 |
| 50° | 342.1 | 342.1 | 379.8 | 364.7 | 382.4 | 400.0 | 457.8 | 465.4 | 588.6 | 628.9 |
| 52.5° | 251.5 | 256.6 | 261.6 | 264.1 | 322.0 | 319.5 | 369.8 | 405.0 | 445.2 | 515.7 |
| 55° | 191.2 | 196.2 | 183.6 | 196.2 | 239.0 | 266.6 | 276.7 | 327.0 | 354.7 | 432.7 |
| 57.5° | 125.8 | 138.4 | 128.3 | 150.9 | 161.0 | 206.3 | 221.4 | 269.2 | 286.8 | 354.7 |
| 60° | 17.6 | 20.1 | 32.7 | 105.6 | 113.2 | 135.8 | 171.1 | 213.8 | 231.4 | 289.3 |
| 62.5° | 2.5 | 2.5 | 7.5 | 17.6 | 75.5 | 90.6 | 128.3 | 148.4 | 171.1 | 216.3 |
| 65° | 0.0 | 0.0 | 2.5 | 5.0 | 15.1 | 52.8 | 65.4 | 80.5 | 118.2 | 156.0 |
| 67.5° | 0.0 | 0.0 | 2.5 | 5.0 | 7.5 | 17.6 | 27.7 | 52.8 | 67.9 | 108.2 |
| 70° | 0.0 | 0.0 | 2.5 | 5.0 | 7.5 | 10.1 | 15.1 | 20.1 | 40.2 | 62.9 |
| 72.5° | 0.0 | 0.0 | 2.5 | 5.0 | 7.5 | 10.1 | 12.6 | 15.1 | 17.6 | 40.2 |
| 75° | 0.0 | 0.0 | 2.5 | 5.0 | 7.5 | 12.6 | 15.1 | 15.1 | 15.1 | 17.6 |
| 77.5° | 0.0 | 0.0 | 2.5 | 5.0 | 10.1 | 15.1 | 17.6 | 15.1 | 12.6 | 12.6 |
| 80° | 0.0 | 0.0 | 2.5 | 7.5 | 12.6 | 17.6 | 20.1 | 15.1 | 10.1 | 7.5 |
| 82.5° | 0.0 | 0.0 | 2.5 | 7.5 | 12.6 | 17.6 | 20.1 | 17.6 | 10.1 | 7.5 |
| 85° | 0.0 | 0.0 | 2.5 | 7.5 | 10.1 | 12.6 | 20.1 | 17.6 | 10.1 | 5.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 2.5 | 2.5 | 5.0 | 10.1 | 7.5 | 5.0 | 2.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P638709

CATALOG NUMBER: EPH-VN-04-E-935-U-55-VI

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 30389.3 | 0° | 30389.3 | 30389.3 | 30389.3 | 30389.3 | 30389.3 | 30389.3 | 30389.3 | 30389.3 | 30389.3 |
| 30467.3 | 2.5° | 30693.7 | 30806.9 | 31005.6 | 31060.9 | 31232.0 | 31035.8 | 30927.6 | 30937.7 | 30703.7 |
| 30391.8 | 5° | 30693.7 | 30952.7 | 31299.9 | 31465.9 | 31591.7 | 31581.6 | 31553.9 | 31483.5 | 31312.5 |
| 30240.9 | 7.5° | 30613.2 | 31035.8 | 31513.7 | 31735.1 | 31886.0 | 31873.4 | 31936.3 | 31823.1 | 31614.3 |
| 29971.7 | 10° | 30354.1 | 30721.3 | 31309.9 | 31491.1 | 31735.1 | 31740.1 | 31662.1 | 31684.7 | 31312.5 |
| 28988.2 | 12.5° | 29539.1 | 29825.8 | 30341.5 | 30547.8 | 30844.6 | 30892.4 | 30806.9 | 30774.2 | 30422.0 |
| 27375.8 | 15° | 27961.9 | 28127.9 | 28646.1 | 28852.3 | 29146.6 | 29106.4 | 29191.9 | 29156.7 | 28847.3 |
| 25197.4 | 17.5° | 25655.2 | 25708.0 | 26251.4 | 26424.9 | 26701.6 | 26809.8 | 26681.5 | 26845.0 | 26578.4 |
| 22191.4 | 20° | 22347.4 | 22631.6 | 23242.9 | 23509.5 | 23670.5 | 23864.2 | 23695.6 | 23879.3 | 23567.4 |
| 18544.0 | 22.5° | 18991.7 | 19160.3 | 19713.7 | 20098.5 | 20397.9 | 20435.6 | 20372.7 | 20501.0 | 20080.9 |
| 15329.2 | 25° | 15326.7 | 15605.9 | 16043.6 | 16546.7 | 16841.0 | 17022.1 | 16858.6 | 16941.6 | 16873.7 |
| 11888.1 | 27.5° | 12089.3 | 12338.3 | 12667.9 | 13042.7 | 13485.4 | 13721.8 | 13591.0 | 13731.9 | 13399.9 |
| 8864.5 | 30° | 8872.0 | 8997.8 | 9370.1 | 9767.5 | 10253.0 | 10539.8 | 10552.4 | 10695.7 | 10499.5 |
| 6210.7 | 32.5° | 6256.0 | 6366.6 | 6595.5 | 6859.7 | 7322.5 | 7642.0 | 7591.7 | 7611.8 | 7491.0 |
| 4047.4 | 35° | 4067.5 | 4215.9 | 4379.4 | 4505.2 | 4784.4 | 5136.6 | 5108.9 | 5083.7 | 5000.7 |
| 2661.4 | 37.5° | 2719.2 | 2777.1 | 2867.6 | 2980.8 | 3161.9 | 3383.3 | 3456.2 | 3365.7 | 3330.5 |
| 1796.0 | 40° | 1838.8 | 1939.4 | 1999.8 | 2085.3 | 2170.8 | 2357.0 | 2407.3 | 2389.7 | 2354.5 |
| 1257.7 | 42.5° | 1305.5 | 1383.5 | 1459.0 | 1542.0 | 1587.3 | 1703.0 | 1801.1 | 1773.4 | 1758.3 |
| 955.9 | 45° | 991.1 | 1061.5 | 1149.6 | 1212.5 | 1257.7 | 1325.6 | 1418.7 | 1428.8 | 1406.1 |
| 767.2 | 47.5° | 794.9 | 857.8 | 928.2 | 1006.2 | 1059.0 | 1101.8 | 1182.3 | 1212.5 | 1197.4 |
| 646.5 | 50° | 674.1 | 721.9 | 789.9 | 867.8 | 925.7 | 963.4 | 1033.9 | 1066.6 | 1056.5 |
| 540.8 | 52.5° | 573.5 | 631.4 | 694.3 | 759.7 | 830.1 | 867.8 | 933.2 | 981.0 | 973.5 |
| 447.8 | 55° | 475.4 | 550.9 | 616.3 | 681.7 | 762.2 | 799.9 | 857.8 | 920.7 | 908.1 |
| 379.8 | 57.5° | 415.1 | 477.9 | 545.9 | 608.7 | 694.3 | 744.6 | 797.4 | 862.8 | 860.3 |
| 311.9 | 60° | 347.1 | 410.0 | 485.5 | 538.3 | 628.9 | 699.3 | 747.1 | 815.0 | 820.0 |
| 236.5 | 62.5° | 276.7 | 354.7 | 412.5 | 485.5 | 568.5 | 651.5 | 696.8 | 764.7 | 789.9 |
| 181.1 | 65° | 206.3 | 291.8 | 357.2 | 430.1 | 508.1 | 601.2 | 641.4 | 709.4 | 734.5 |
| 130.8 | 67.5° | 153.4 | 218.8 | 301.9 | 364.7 | 452.8 | 533.3 | 581.1 | 644.0 | 661.6 |
| 78.0 | 70° | 115.7 | 168.5 | 251.5 | 306.9 | 397.4 | 462.8 | 510.6 | 558.4 | 581.1 |
| 52.8 | 72.5° | 67.9 | 125.8 | 198.7 | 264.1 | 342.1 | 397.4 | 432.7 | 470.4 | 485.5 |
| 25.2 | 75° | 47.8 | 95.6 | 156.0 | 218.8 | 276.7 | 322.0 | 354.7 | 387.4 | 402.5 |
| 12.6 | 77.5° | 25.2 | 70.4 | 123.3 | 176.1 | 216.3 | 254.1 | 286.8 | 311.9 | 322.0 |
| 10.1 | 80° | 15.1 | 50.3 | 100.6 | 138.4 | 166.0 | 198.7 | 231.4 | 249.0 | 246.5 |
| 7.5 | 82.5° | 10.1 | 40.2 | 72.9 | 100.6 | 120.7 | 145.9 | 168.5 | 181.1 | 181.1 |
| 5.0 | 85° | 7.5 | 27.7 | 50.3 | 78.0 | 80.5 | 100.6 | 105.6 | 118.2 | 120.7 |
| 5.0 | 87.5° | 5.0 | 17.6 | 27.7 | 45.3 | 42.8 | 52.8 | 55.3 | 62.9 | 67.9 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
30389.3
30515.1
31367.8
31662.1
31204.3
30341.5
28945.4
26513.0
23542.2
20023.1
16830.9
13485.4
10534.8
7559.0
4927.8
3322.9
2359.5
1745.7
1403.6
1189.8
1054.0
968.5
908.1
857.8
820.0
787.3
732.0
661.6
576.0
480.5
397.4
319.5
244.0
178.6
118.2
65.4
0.0

(END OF REPORT)