

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: P638575

Luminaire Tested: **EPH-VN-08-E-735-U-33-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638575
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-E-735-U-33-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 3 distribution lens and Visor
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67155 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

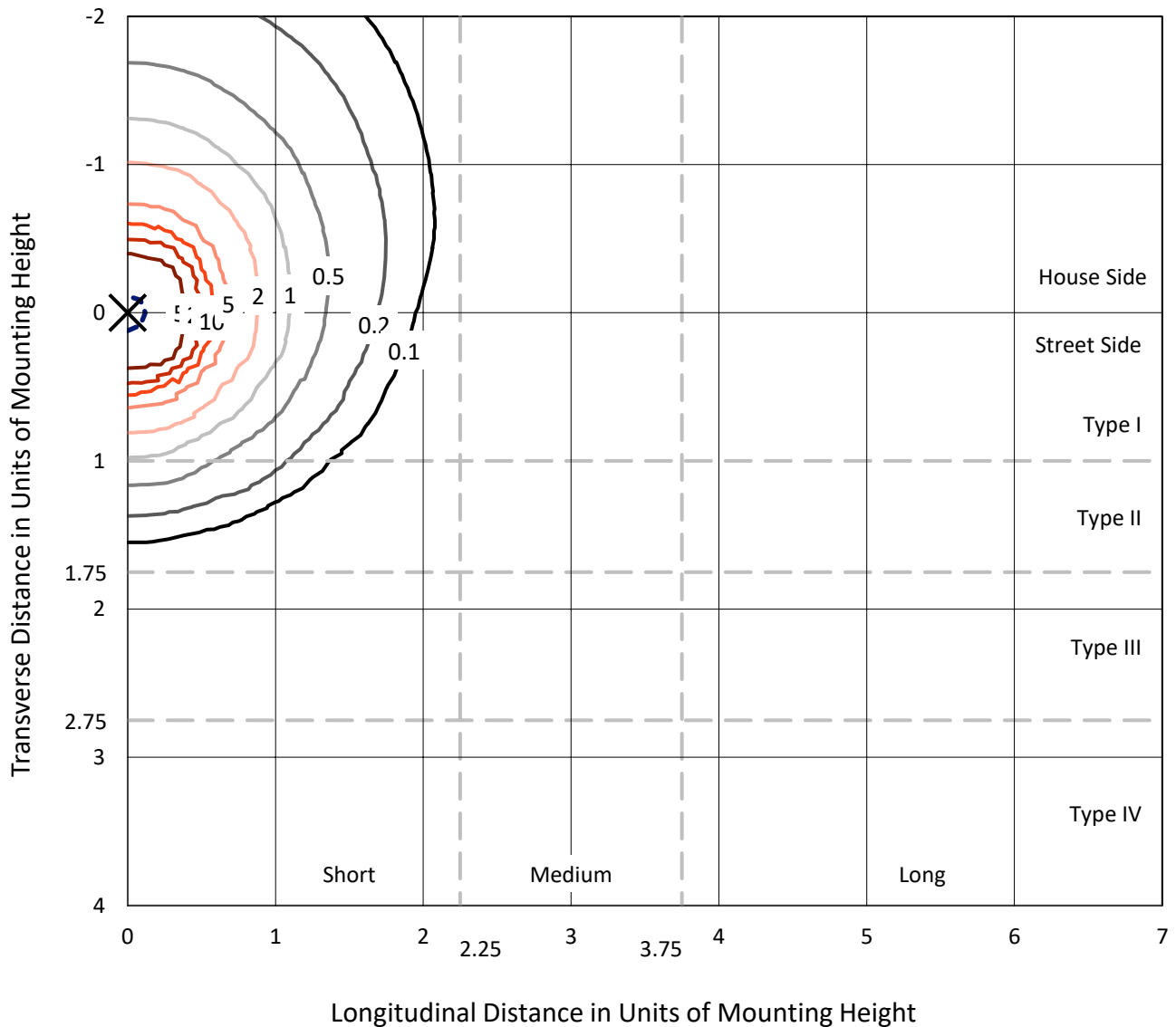
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

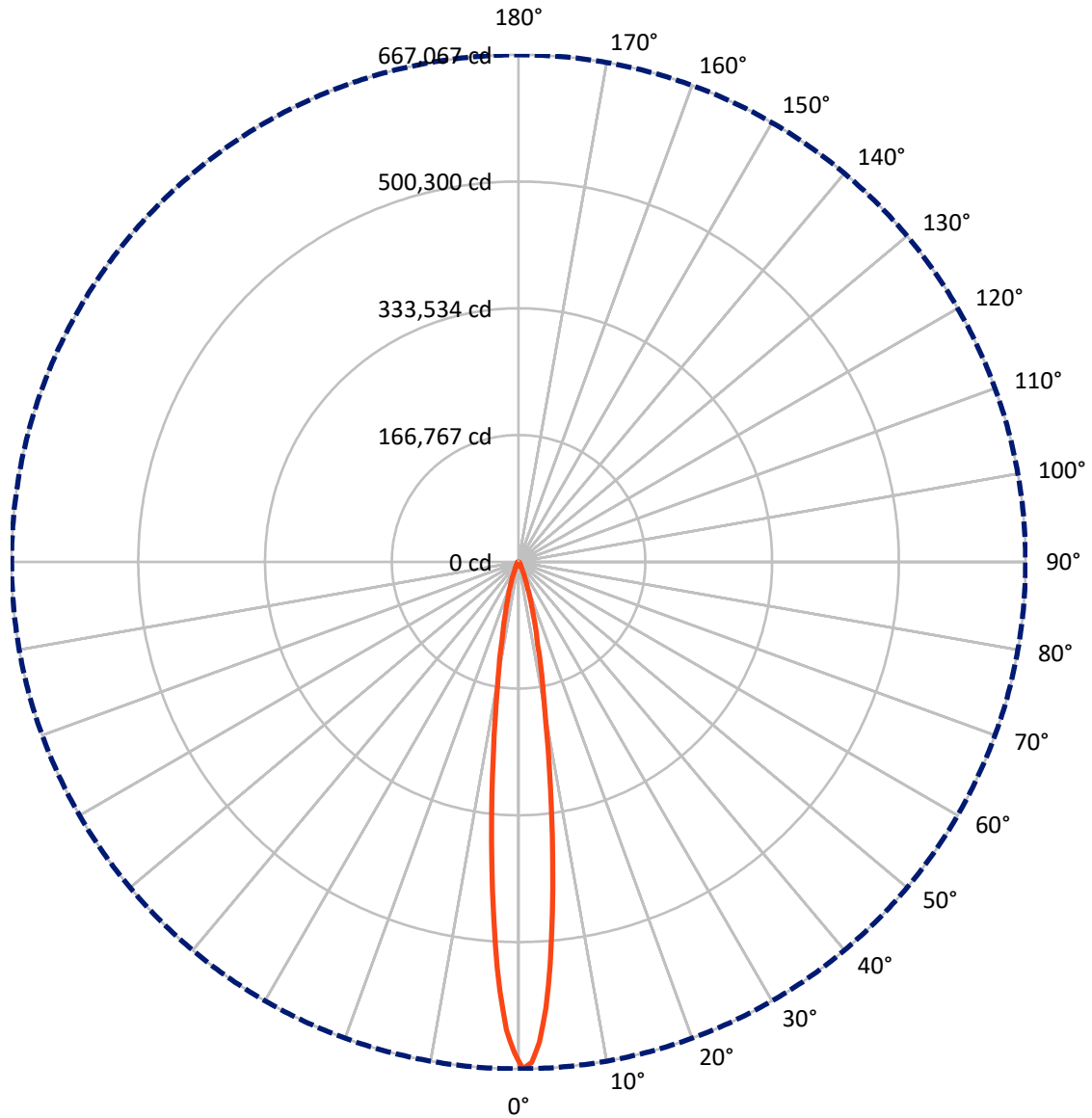
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1667.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 34395.6 | 0.0 | 34395.6 |
| | % Fixture | 51.2 | 0.0 | 51.2 |
| Street Side | Lumens | 32759.4 | 0.0 | 32759.4 |
| | % Fixture | 48.8 | 0.0 | 48.8 |
| Total | Lumens | 67155.0 | 0.0 | 67155.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 33901.9 | 50.5 |
| 10°-20° | 21703.8 | 32.3 |
| 20°-30° | 6523.7 | 9.7 |
| 30°-40° | 2124.1 | 3.2 |
| 40°-50° | 1235.9 | 1.8 |
| 50°-60° | 820.9 | 1.2 |
| 60°-70° | 494.1 | 0.7 |
| 70°-80° | 254.0 | 0.4 |
| 80°-90° | 96.5 | 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° | 67155.0 | 100.0 |
| 0°-180° | 67155.0 | 100.0 |

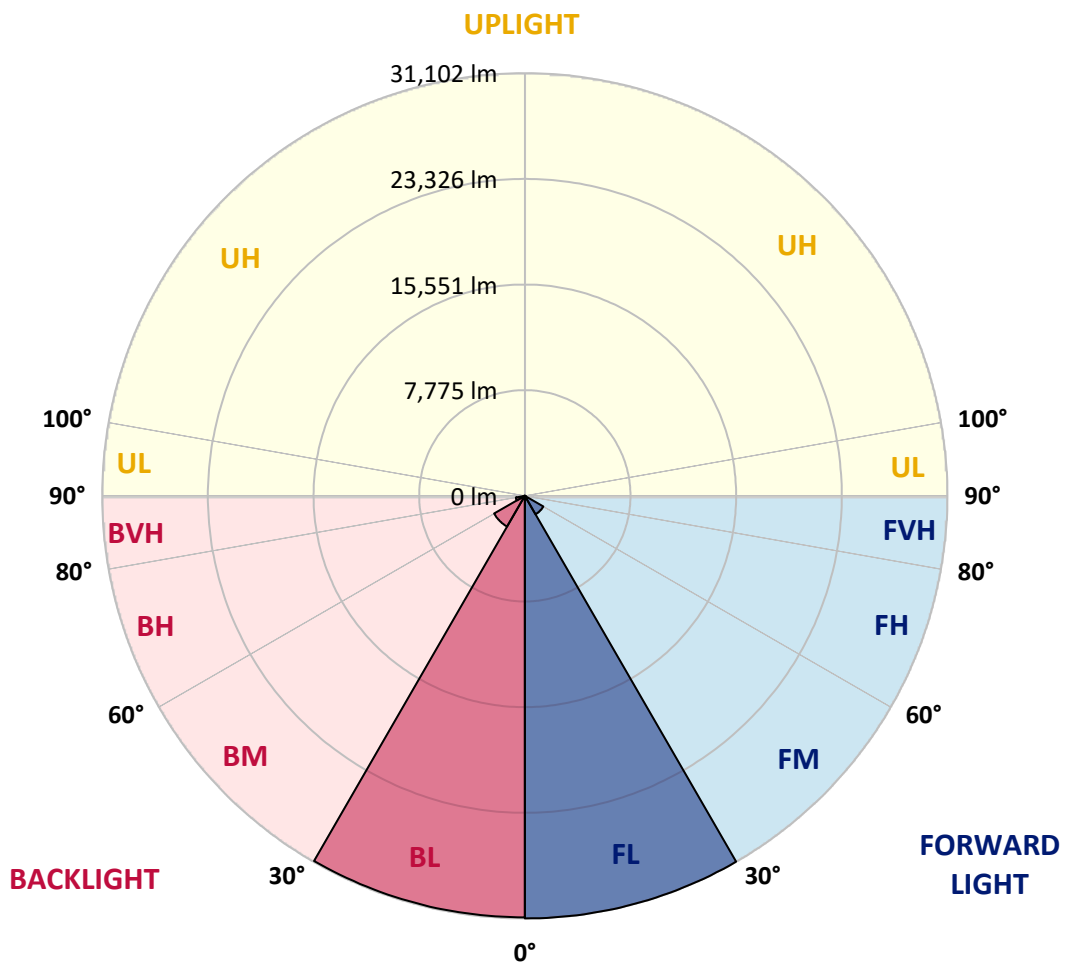


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 31101.6 | 46.3 | | | |
| FM (30°-60°) | 1569.5 | 2.3 | | | |
| FH (60°-80°) | 73.9 | 0.1 | | | G0/660 |
| FVH (80°-90°) | 14.6 | 0.0 | | | G1/100 |
| BL (0°-30°) | 31027.9 | 46.2 | B5 | | |
| BM (30°-60°) | 2611.5 | 3.9 | B3/5000 | | |
| BH (60°-80°) | 674.3 | 1.0 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 81.9 | 0.1 | | | 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 V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0° | 667067.0 | 667067.0 | 667067.0 | 667067.0 | 667067.0 | 667067.0 | 667067.0 | 667067.0 | 667067.0 | 667067.0 |
| 1° | 659079.8 | 657068.4 | 651875.3 | 655569.0 | 658816.5 | 657873.0 | 657807.1 | 657456.0 | 656966.0 | 660813.3 |
| 2° | 632733.9 | 631431.9 | 623752.0 | 626919.0 | 631534.3 | 628169.8 | 630276.3 | 628425.8 | 628462.4 | 633055.7 |
| 3° | 588321.7 | 589031.2 | 576779.9 | 582536.2 | 588950.8 | 580795.4 | 583326.1 | 588080.4 | 583099.4 | 581600.0 |
| 4° | 530597.7 | 524439.1 | 517746.5 | 523597.9 | 525258.3 | 520511.3 | 525177.8 | 531000.0 | 524080.7 | 524387.9 |
| 5° | 464696.3 | 460146.8 | 452225.5 | 455838.7 | 451720.8 | 453220.2 | 460212.6 | 462611.7 | 457784.3 | 451706.2 |
| 6° | 396937.1 | 393704.2 | 383800.7 | 389008.4 | 387545.6 | 386697.1 | 395525.4 | 388211.2 | 390844.3 | 387165.2 |
| 7° | 330172.6 | 324131.0 | 319267.0 | 324255.4 | 324577.2 | 322024.5 | 333485.9 | 332154.7 | 327363.9 | 326252.1 |
| 8° | 273553.0 | 267526.0 | 263408.1 | 267123.7 | 269552.1 | 265543.9 | 270934.5 | 274474.6 | 270729.7 | 271066.1 |
| 9° | 220634.4 | 219573.8 | 213846.7 | 218703.4 | 221343.9 | 217050.4 | 223018.8 | 224298.8 | 220795.3 | 222499.5 |
| 10° | 181159.4 | 179923.3 | 175351.8 | 177319.4 | 181693.3 | 176573.3 | 182300.4 | 182717.3 | 179923.3 | 180720.5 |
| 12.5° | 111951.9 | 111454.6 | 111330.2 | 111615.5 | 111557.0 | 112463.9 | 113926.8 | 112259.1 | 112039.7 | 109282.2 |
| 15° | 72359.9 | 73098.6 | 72337.9 | 73800.8 | 74012.9 | 74868.7 | 73976.3 | 72630.5 | 70063.2 | 68790.5 |
| 17.5° | 45158.2 | 46101.7 | 47403.7 | 49546.7 | 51689.8 | 51938.5 | 50753.6 | 49173.7 | 47930.3 | 46569.8 |
| 20° | 25980.2 | 26441.0 | 26243.5 | 28810.8 | 34355.0 | 35861.8 | 34333.1 | 32672.8 | 31173.3 | 29798.3 |
| 22.5° | 16142.6 | 15974.3 | 16281.5 | 17144.6 | 18951.2 | 23610.4 | 22359.7 | 20699.3 | 19609.5 | 18475.8 |
| 25° | 9896.2 | 10079.0 | 9962.0 | 10437.4 | 11249.3 | 13224.2 | 13509.4 | 12792.6 | 12236.7 | 11651.6 |
| 27.5° | 6370.7 | 6370.7 | 6421.9 | 6685.2 | 7241.1 | 7175.3 | 8696.6 | 8140.8 | 7840.9 | 7555.6 |
| 30° | 4425.1 | 4439.8 | 4439.8 | 4593.3 | 4717.7 | 4498.3 | 4893.2 | 5610.0 | 5471.1 | 5251.6 |
| 32.5° | 3284.1 | 3328.0 | 3364.6 | 3445.0 | 3342.6 | 3108.6 | 3203.6 | 4037.5 | 3957.0 | 3876.6 |
| 35° | 2501.5 | 2538.0 | 2625.8 | 2669.7 | 2523.4 | 2377.1 | 2289.4 | 2969.6 | 3006.2 | 2984.2 |
| 37.5° | 1821.2 | 1843.2 | 2004.1 | 2172.3 | 2004.1 | 1872.4 | 1821.2 | 2282.0 | 2457.6 | 2435.6 |
| 40° | 1397.0 | 1404.3 | 1433.6 | 1623.8 | 1623.8 | 1521.4 | 1536.0 | 1704.2 | 2011.4 | 2011.4 |
| 42.5° | 1199.5 | 1199.5 | 1228.8 | 1199.5 | 1206.9 | 1316.6 | 1353.1 | 1375.1 | 1704.2 | 1704.2 |
| 45° | 1038.6 | 1038.6 | 1053.3 | 980.1 | 907.0 | 1133.7 | 1163.0 | 1170.3 | 1433.6 | 1470.2 |
| 47.5° | 870.4 | 870.4 | 899.7 | 804.6 | 768.0 | 899.7 | 980.1 | 1002.1 | 1236.1 | 1265.4 |
| 50° | 643.7 | 651.0 | 738.7 | 658.3 | 680.2 | 694.9 | 848.5 | 863.1 | 1045.9 | 1111.8 |
| 52.5° | 431.5 | 431.5 | 446.2 | 512.0 | 592.5 | 570.5 | 687.5 | 738.7 | 833.8 | 921.6 |
| 55° | 351.1 | 351.1 | 343.8 | 329.1 | 438.9 | 475.4 | 504.7 | 614.4 | 680.2 | 789.9 |
| 57.5° | 241.4 | 256.0 | 234.1 | 270.6 | 285.3 | 358.4 | 380.3 | 482.7 | 519.3 | 665.6 |
| 60° | 29.3 | 36.6 | 51.2 | 197.5 | 190.2 | 241.4 | 285.3 | 380.3 | 424.2 | 512.0 |
| 62.5° | 7.3 | 7.3 | 14.6 | 36.6 | 131.7 | 160.9 | 226.7 | 263.3 | 307.2 | 395.0 |
| 65° | 0.0 | 0.0 | 7.3 | 14.6 | 29.3 | 87.8 | 117.0 | 153.6 | 219.4 | 277.9 |
| 67.5° | 0.0 | 0.0 | 7.3 | 14.6 | 14.6 | 36.6 | 58.5 | 95.1 | 117.0 | 204.8 |
| 70° | 0.0 | 0.0 | 7.3 | 14.6 | 14.6 | 29.3 | 36.6 | 43.9 | 80.5 | 109.7 |
| 72.5° | 0.0 | 0.0 | 7.3 | 14.6 | 21.9 | 29.3 | 36.6 | 36.6 | 36.6 | 73.1 |
| 75° | 0.0 | 0.0 | 7.3 | 14.6 | 21.9 | 29.3 | 36.6 | 36.6 | 29.3 | 29.3 |
| 77.5° | 0.0 | 0.0 | 7.3 | 14.6 | 29.3 | 36.6 | 43.9 | 36.6 | 21.9 | 21.9 |
| 80° | 0.0 | 0.0 | 7.3 | 21.9 | 36.6 | 51.2 | 58.5 | 43.9 | 21.9 | 14.6 |
| 82.5° | 0.0 | 0.0 | 14.6 | 29.3 | 43.9 | 58.5 | 80.5 | 65.8 | 29.3 | 14.6 |
| 85° | 0.0 | 0.0 | 7.3 | 21.9 | 43.9 | 58.5 | 117.0 | 80.5 | 36.6 | 7.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 7.3 | 7.3 | 14.6 | 43.9 | 29.3 | 14.6 | 7.3 |
| 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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CATALOG NUMBER: EPH-VN-08-E-735-U-33-VI

CANDELA DISTRIBUTION (continued):

| 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|----------|-------|----------|----------|----------|----------|----------|----------|----------|----------|
| 667067.0 | 0° | 667067.0 | 667067.0 | 667067.0 | 667067.0 | 667067.0 | 667067.0 | 667067.0 | 667067.0 |
| 656373.5 | 1° | 660959.6 | 661420.4 | 659913.6 | 662246.9 | 661427.7 | 656629.5 | 655042.3 | 653162.6 |
| 630356.7 | 2° | 628425.8 | 630773.7 | 630890.7 | 633479.9 | 633443.4 | 627848.0 | 626114.5 | 629310.8 |
| 584642.7 | 3° | 582872.6 | 585608.2 | 583143.3 | 587743.9 | 586361.5 | 579573.9 | 577811.2 | 581439.0 |
| 526816.2 | 4° | 525243.7 | 524724.3 | 523875.9 | 521257.4 | 524483.0 | 519853.0 | 516364.2 | 521286.6 |
| 459766.5 | 5° | 458844.9 | 457689.2 | 456036.2 | 455260.9 | 457660.0 | 454697.7 | 447522.4 | 454712.3 |
| 393821.2 | 6° | 394303.9 | 389330.2 | 389088.9 | 388657.3 | 388898.7 | 380604.3 | 381101.7 | 386455.7 |
| 322426.8 | 7° | 325835.2 | 326749.5 | 324884.4 | 327875.9 | 325593.9 | 319976.5 | 317811.5 | 323450.8 |
| 272543.6 | 8° | 270641.9 | 269486.2 | 268060.0 | 272529.0 | 268572.0 | 264885.6 | 262362.2 | 266816.5 |
| 222777.4 | 9° | 222360.5 | 220363.7 | 218915.5 | 218688.8 | 219303.2 | 212383.9 | 213788.2 | 217160.1 |
| 181159.4 | 10° | 181225.2 | 177948.4 | 178745.7 | 178957.8 | 178284.9 | 173750.0 | 173793.9 | 174956.9 |
| 111110.8 | 12.5° | 110715.8 | 109106.7 | 109509.0 | 109728.4 | 111096.2 | 109501.6 | 107248.9 | 105625.1 |
| 70055.9 | 15° | 69587.8 | 68432.1 | 70794.6 | 72381.8 | 72060.0 | 70641.0 | 69580.5 | 68110.3 |
| 46569.8 | 17.5° | 46138.3 | 47652.3 | 47659.7 | 49107.9 | 49254.2 | 47835.2 | 47016.0 | 45692.1 |
| 30288.3 | 20° | 30178.6 | 30807.6 | 32116.9 | 33140.9 | 33733.3 | 32650.8 | 31670.7 | 30763.7 |
| 18885.4 | 22.5° | 18885.4 | 19982.5 | 20801.7 | 22132.9 | 22674.2 | 21884.2 | 21189.4 | 20450.6 |
| 11790.6 | 25° | 11593.1 | 12375.7 | 13055.9 | 14211.6 | 14950.3 | 14570.0 | 13933.6 | 13414.3 |
| 7614.1 | 27.5° | 7731.2 | 8060.3 | 8396.8 | 9194.0 | 9962.0 | 9749.9 | 9493.9 | 9179.4 |
| 5368.7 | 30° | 5449.1 | 5478.4 | 5836.8 | 6282.9 | 6794.9 | 6926.6 | 6809.6 | 6648.7 |
| 3942.4 | 32.5° | 4015.5 | 4132.6 | 4300.8 | 4578.7 | 4922.5 | 5237.0 | 5178.5 | 5105.3 |
| 3013.5 | 35° | 3101.2 | 3276.8 | 3415.8 | 3627.9 | 3810.7 | 4110.6 | 4161.8 | 4139.9 |
| 2479.5 | 37.5° | 2530.7 | 2684.3 | 2823.3 | 2947.6 | 3101.2 | 3306.0 | 3467.0 | 3474.3 |
| 2048.0 | 40° | 2099.2 | 2238.2 | 2421.0 | 2516.1 | 2625.8 | 2779.4 | 2976.9 | 2991.5 |
| 1733.5 | 42.5° | 1770.0 | 1901.7 | 2084.6 | 2201.6 | 2282.0 | 2428.3 | 2625.8 | 2655.1 |
| 1484.8 | 45° | 1521.4 | 1601.8 | 1792.0 | 1931.0 | 2011.4 | 2106.5 | 2318.6 | 2347.9 |
| 1280.0 | 47.5° | 1323.9 | 1404.3 | 1521.4 | 1718.8 | 1792.0 | 1879.8 | 2048.0 | 2099.2 |
| 1133.7 | 50° | 1163.0 | 1243.4 | 1345.8 | 1521.4 | 1631.1 | 1704.2 | 1843.2 | 1916.3 |
| 987.4 | 52.5° | 1031.3 | 1111.8 | 1221.5 | 1360.5 | 1484.8 | 1550.6 | 1682.3 | 1777.4 |
| 804.6 | 55° | 863.1 | 1002.1 | 1082.5 | 1206.9 | 1375.1 | 1433.6 | 1536.0 | 1660.3 |
| 702.2 | 57.5° | 753.4 | 870.4 | 987.4 | 1089.8 | 1258.1 | 1331.2 | 1433.6 | 1550.6 |
| 555.9 | 60° | 636.3 | 746.1 | 885.0 | 972.8 | 1133.7 | 1228.8 | 1338.5 | 1448.2 |
| 424.2 | 62.5° | 504.7 | 651.0 | 746.1 | 870.4 | 1024.0 | 1148.3 | 1236.1 | 1345.8 |
| 329.1 | 65° | 373.0 | 533.9 | 643.7 | 775.3 | 921.6 | 1053.3 | 1126.4 | 1243.4 |
| 234.1 | 67.5° | 270.6 | 416.9 | 548.6 | 672.9 | 811.9 | 943.5 | 1016.7 | 1119.1 |
| 146.3 | 70° | 212.1 | 307.2 | 453.5 | 563.2 | 709.5 | 819.2 | 899.7 | 965.5 |
| 95.1 | 72.5° | 124.3 | 234.1 | 365.7 | 490.1 | 621.7 | 694.9 | 753.4 | 811.9 |
| 43.9 | 75° | 80.5 | 182.9 | 299.9 | 409.6 | 504.7 | 570.5 | 621.7 | 672.9 |
| 21.9 | 77.5° | 51.2 | 131.7 | 241.4 | 343.8 | 387.7 | 468.1 | 512.0 | 541.3 |
| 14.6 | 80° | 29.3 | 102.4 | 212.1 | 277.9 | 314.5 | 365.7 | 409.6 | 446.2 |
| 14.6 | 82.5° | 21.9 | 87.8 | 175.5 | 234.1 | 234.1 | 292.6 | 314.5 | 314.5 |
| 7.3 | 85° | 14.6 | 73.1 | 139.0 | 219.4 | 175.5 | 219.4 | 204.8 | 204.8 |
| 7.3 | 87.5° | 14.6 | 51.2 | 65.8 | 95.1 | 80.5 | 95.1 | 95.1 | 109.7 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
667067.0
645716.7
615772.1
565325.7
503469.1
435768.4
370934.9
308112.8
254097.1
206627.6
167042.9
104637.7
67356.9
45363.0
30449.2
20055.7
13114.5
8996.5
6538.9
5046.8
4066.7
3423.1
2969.6
2633.1
2340.6
2106.5
1923.6
1777.4
1667.6
1557.9
1477.5
1397.0
1265.4
1126.4
987.4
826.5
672.9
526.6
402.3
292.6
197.5
109.7
0.0

(END OF REPORT)