

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: P638723

Luminaire Tested: **EPH-VN-07-E-950-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638723
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-07-E-950-U-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (112) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38317.4 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

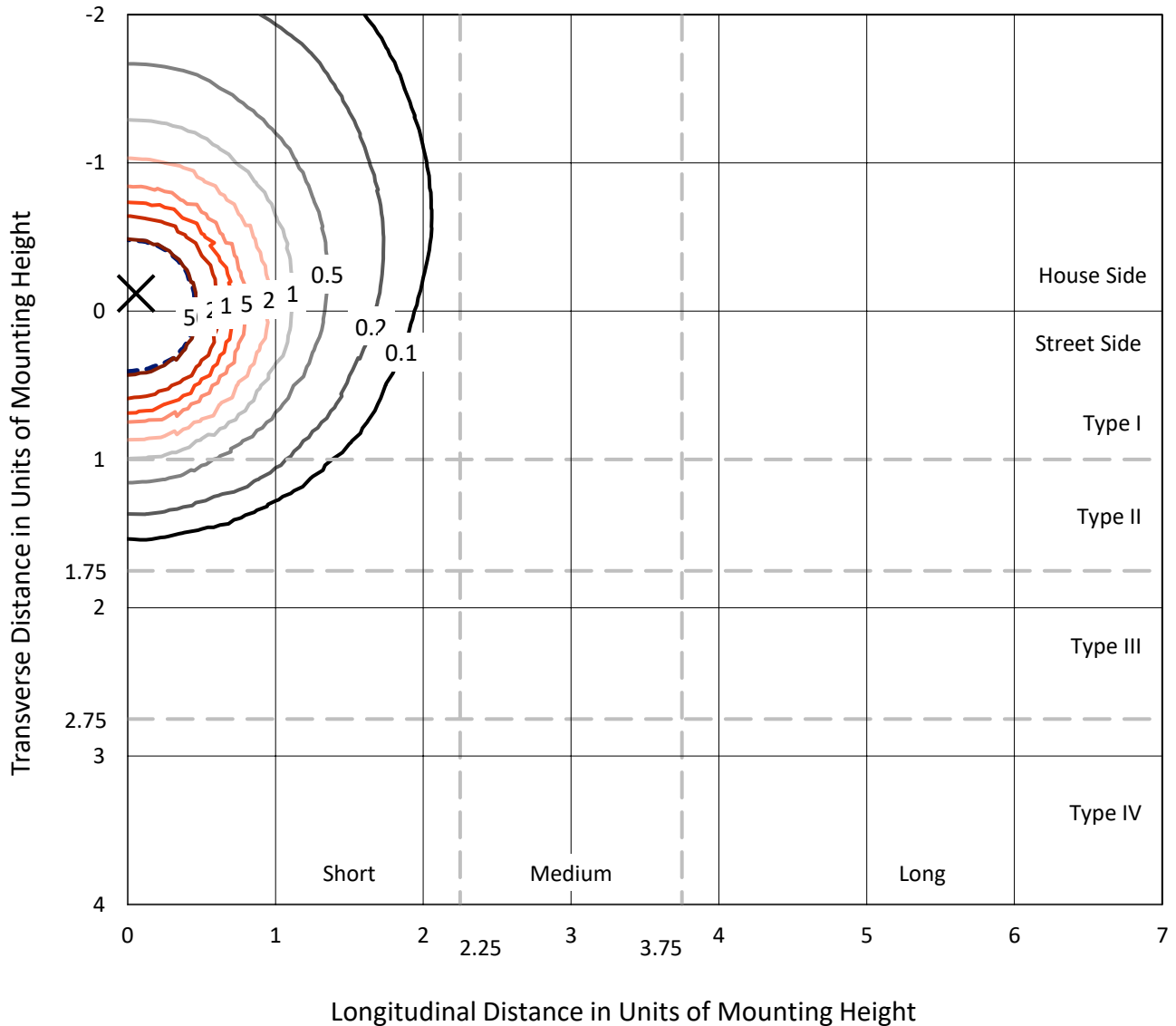
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

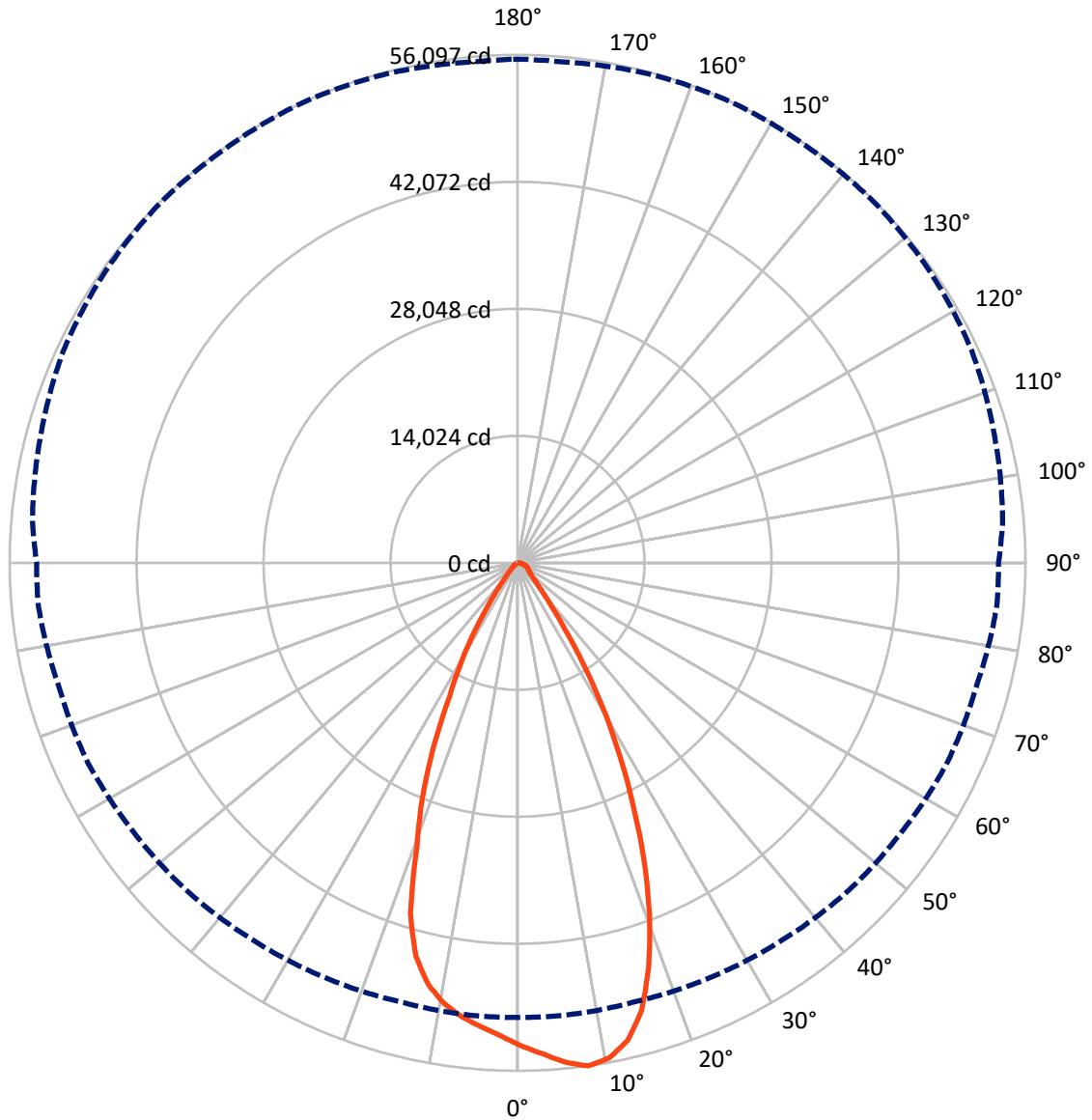
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 135.7 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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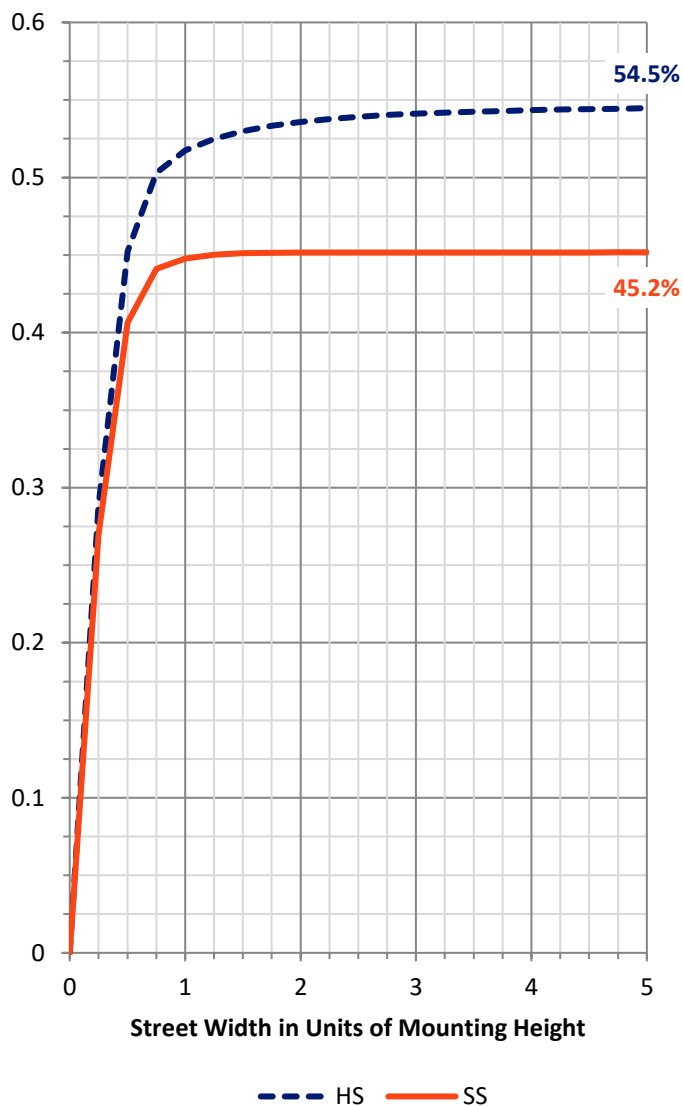
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 21152.6 | 0.0 | 21152.6 |
| | % Fixture | 55.2 | 0.0 | 55.2 |
| Street Side | Lumens | 17164.8 | 0.0 | 17164.8 |
| | % Fixture | 44.8 | 0.0 | 44.8 |
| Total | Lumens | 38317.4 | 0.0 | 38317.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 5090.1 | 13.3 |
| 10°-20° | 13198.5 | 34.4 |
| 20°-30° | 12093.5 | 31.6 |
| 30°-40° | 4885.8 | 12.8 |
| 40°-50° | 1433.3 | 3.7 |
| 50°-60° | 801.4 | 2.1 |
| 60°-70° | 486.7 | 1.3 |
| 70°-80° | 247.3 | 0.6 |
| 80°-90° | 80.9 | 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° | 38317.4 | 100.0 |
| 0°-180° | 38317.4 | 100.0 |

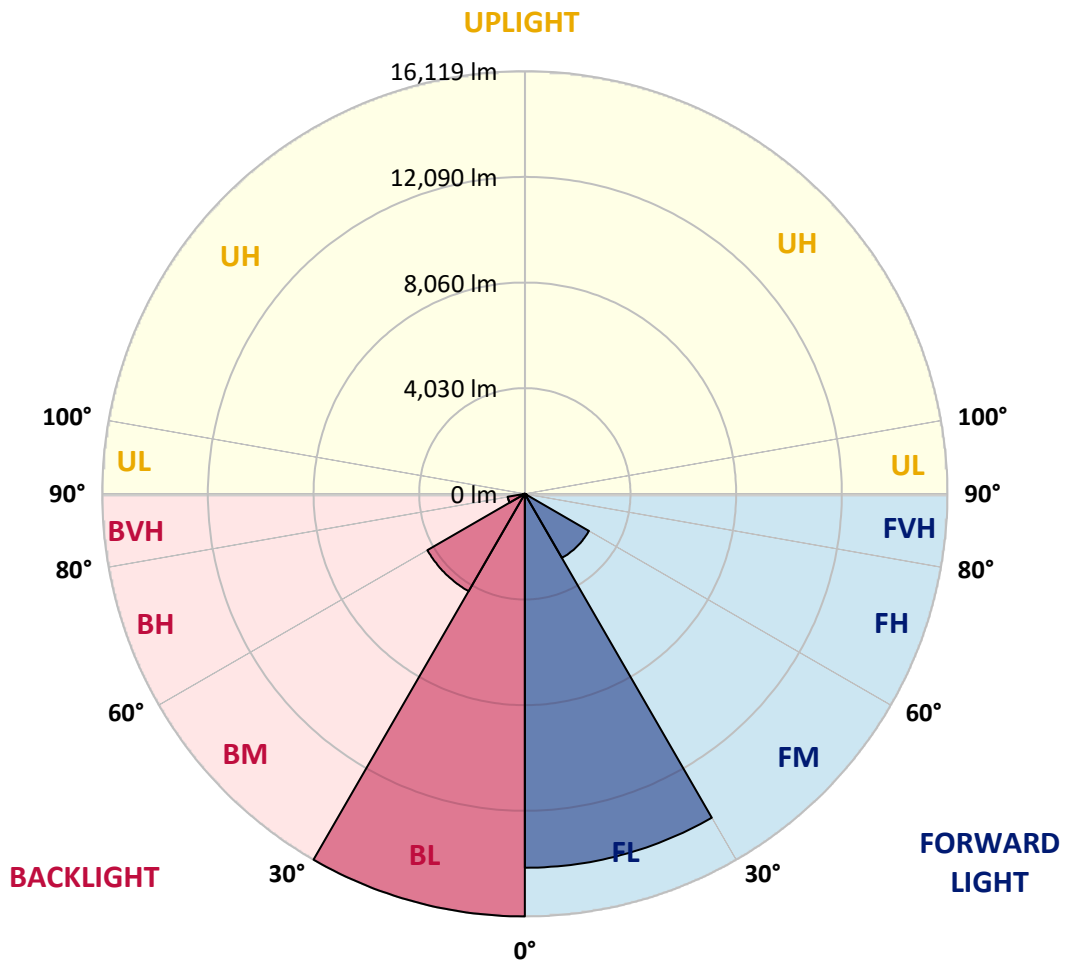


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 14262.7 | 37.2 | | | |
| FM (30°-60°) | 2826.6 | 7.4 | | | |
| FH (60°-80°) | 68.5 | 0.2 | | | G0/660 |
| FVH (80°-90°) | 7.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 16119.4 | 42.1 | B5 | | |
| BM (30°-60°) | 4293.8 | 11.2 | B3/5000 | | |
| BH (60°-80°) | 665.6 | 1.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 73.9 | 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° | 53379.2 | 53379.2 | 53379.2 | 53379.2 | 53379.2 | 53379.2 | 53379.2 | 53379.2 | 53379.2 | 53379.2 |
| 2.5° | 52221.5 | 52398.3 | 52044.8 | 52279.0 | 52460.1 | 52893.1 | 52928.5 | 53078.7 | 53131.7 | 53525.0 |
| 5° | 51231.8 | 51368.8 | 51081.6 | 51395.3 | 51651.6 | 52036.0 | 52332.0 | 52747.3 | 52977.1 | 53441.0 |
| 7.5° | 50202.3 | 50233.2 | 50175.8 | 50507.2 | 50891.6 | 51421.8 | 51788.5 | 52332.0 | 52473.4 | 53136.1 |
| 10° | 48956.3 | 48731.0 | 48841.4 | 49327.5 | 49901.9 | 50714.8 | 50966.7 | 51510.2 | 51762.0 | 52438.0 |
| 12.5° | 46968.0 | 47082.9 | 46945.9 | 47564.5 | 48041.7 | 48965.1 | 49230.2 | 49778.1 | 50259.7 | 50856.2 |
| 15° | 44166.7 | 44100.4 | 44378.8 | 44860.4 | 45377.4 | 46110.8 | 46539.4 | 47135.9 | 47502.6 | 48121.2 |
| 17.5° | 37870.4 | 38095.8 | 39244.6 | 40450.8 | 41511.2 | 42368.4 | 42881.0 | 43375.8 | 43640.9 | 44312.5 |
| 20° | 32705.3 | 32422.5 | 32577.2 | 33257.6 | 36275.4 | 37587.7 | 38126.7 | 38246.0 | 38356.5 | 38886.7 |
| 22.5° | 26930.4 | 26837.6 | 27354.6 | 28118.9 | 28834.7 | 31861.4 | 32594.8 | 32316.5 | 32546.2 | 33045.5 |
| 25° | 19997.9 | 20466.2 | 20925.7 | 22392.6 | 23320.5 | 24805.1 | 26196.9 | 26320.6 | 26404.6 | 26718.3 |
| 27.5° | 16277.5 | 16114.0 | 16105.2 | 16516.1 | 17885.8 | 19123.0 | 20307.1 | 20581.1 | 20532.5 | 20832.9 |
| 30° | 12795.8 | 12742.8 | 12557.2 | 12654.4 | 12517.4 | 13617.6 | 14174.4 | 15301.1 | 15239.2 | 15248.0 |
| 32.5° | 9230.1 | 9031.3 | 8956.2 | 9102.0 | 8960.6 | 8859.0 | 9345.0 | 10617.5 | 10595.4 | 10683.8 |
| 35° | 5584.9 | 5558.4 | 5620.3 | 5748.4 | 5465.6 | 5456.8 | 5558.4 | 6755.8 | 6901.6 | 7043.0 |
| 37.5° | 3084.1 | 3057.6 | 3106.2 | 3578.9 | 3486.1 | 3402.2 | 3428.7 | 4060.5 | 4480.3 | 4586.3 |
| 40° | 2032.5 | 2028.1 | 2063.4 | 2147.4 | 2306.4 | 2275.5 | 2288.8 | 2571.5 | 2969.2 | 3062.0 |
| 42.5° | 1360.9 | 1365.3 | 1387.4 | 1484.6 | 1506.7 | 1665.8 | 1639.2 | 1705.5 | 2076.7 | 2156.2 |
| 45° | 1086.9 | 1082.5 | 1095.8 | 1051.6 | 1078.1 | 1241.6 | 1259.3 | 1263.7 | 1581.8 | 1630.4 |
| 47.5° | 857.2 | 857.2 | 870.4 | 813.0 | 799.7 | 901.4 | 994.1 | 1007.4 | 1263.7 | 1330.0 |
| 50° | 600.9 | 600.9 | 667.2 | 640.7 | 671.6 | 702.5 | 804.2 | 817.4 | 1033.9 | 1104.6 |
| 52.5° | 441.8 | 450.7 | 459.5 | 463.9 | 565.6 | 561.1 | 649.5 | 711.4 | 782.1 | 905.8 |
| 55° | 335.8 | 344.6 | 322.5 | 344.6 | 419.8 | 468.4 | 486.0 | 574.4 | 623.0 | 760.0 |
| 57.5° | 220.9 | 243.0 | 225.3 | 265.1 | 282.8 | 362.3 | 388.8 | 472.8 | 503.7 | 623.0 |
| 60° | 30.9 | 35.3 | 57.4 | 185.6 | 198.8 | 238.6 | 300.5 | 375.6 | 406.5 | 508.1 |
| 62.5° | 4.4 | 4.4 | 13.3 | 30.9 | 132.6 | 159.1 | 225.3 | 260.7 | 300.5 | 380.0 |
| 65° | 0.0 | 0.0 | 4.4 | 8.8 | 26.5 | 92.8 | 114.9 | 141.4 | 207.7 | 273.9 |
| 67.5° | 0.0 | 0.0 | 4.4 | 8.8 | 13.3 | 30.9 | 48.6 | 92.8 | 119.3 | 190.0 |
| 70° | 0.0 | 0.0 | 4.4 | 8.8 | 13.3 | 17.7 | 26.5 | 35.3 | 70.7 | 110.5 |
| 72.5° | 0.0 | 0.0 | 4.4 | 8.8 | 13.3 | 17.7 | 22.1 | 26.5 | 30.9 | 70.7 |
| 75° | 0.0 | 0.0 | 4.4 | 8.8 | 13.3 | 22.1 | 26.5 | 26.5 | 26.5 | 30.9 |
| 77.5° | 0.0 | 0.0 | 4.4 | 8.8 | 17.7 | 26.5 | 30.9 | 26.5 | 22.1 | 22.1 |
| 80° | 0.0 | 0.0 | 4.4 | 13.3 | 22.1 | 30.9 | 35.3 | 26.5 | 17.7 | 13.3 |
| 82.5° | 0.0 | 0.0 | 4.4 | 13.3 | 22.1 | 30.9 | 35.3 | 30.9 | 17.7 | 13.3 |
| 85° | 0.0 | 0.0 | 4.4 | 13.3 | 17.7 | 22.1 | 35.3 | 30.9 | 17.7 | 8.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 4.4 | 4.4 | 8.8 | 17.7 | 13.3 | 8.8 | 4.4 |
| 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-07-E-950-U-55-VI

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 53379.2 | 0° | 53379.2 | 53379.2 | 53379.2 | 53379.2 | 53379.2 | 53379.2 | 53379.2 | 53379.2 | 53379.2 |
| 53516.1 | 2.5° | 53913.8 | 54112.6 | 54461.7 | 54558.9 | 54859.3 | 54514.7 | 54324.7 | 54342.4 | 53931.5 |
| 53383.6 | 5° | 53913.8 | 54368.9 | 54978.6 | 55270.3 | 55491.2 | 55473.5 | 55424.9 | 55301.2 | 55000.7 |
| 53118.5 | 7.5° | 53772.4 | 54514.7 | 55354.2 | 55743.0 | 56008.1 | 55986.0 | 56096.5 | 55897.7 | 55530.9 |
| 52645.7 | 10° | 53317.3 | 53962.4 | 54996.3 | 55314.4 | 55743.0 | 55751.9 | 55614.9 | 55654.7 | 55000.7 |
| 50918.1 | 12.5° | 51885.7 | 52389.4 | 53295.2 | 53657.5 | 54178.9 | 54262.9 | 54112.6 | 54055.2 | 53436.6 |
| 48085.9 | 15° | 49115.4 | 49407.0 | 50317.2 | 50679.5 | 51196.5 | 51125.8 | 51276.0 | 51214.1 | 50670.7 |
| 44259.5 | 17.5° | 45063.7 | 45156.4 | 46110.8 | 46415.7 | 46901.7 | 47091.7 | 46866.4 | 47153.6 | 46685.2 |
| 38979.5 | 20° | 39253.4 | 39752.7 | 40826.4 | 41294.7 | 41577.5 | 41917.7 | 41621.7 | 41944.2 | 41396.4 |
| 32572.7 | 22.5° | 33359.2 | 33655.3 | 34627.3 | 35303.3 | 35829.1 | 35895.4 | 35784.9 | 36010.3 | 35272.4 |
| 26926.0 | 25° | 26921.5 | 27412.0 | 28180.8 | 29064.5 | 29581.4 | 29899.6 | 29612.4 | 29758.2 | 29638.9 |
| 20881.5 | 27.5° | 21235.0 | 21672.4 | 22251.3 | 22909.6 | 23687.3 | 24102.6 | 23872.8 | 24120.3 | 23537.0 |
| 15570.6 | 30° | 15583.8 | 15804.8 | 16458.7 | 17156.8 | 18009.6 | 18513.3 | 18535.4 | 18787.2 | 18442.6 |
| 10909.1 | 32.5° | 10988.7 | 11183.1 | 11585.1 | 12049.1 | 12862.1 | 13423.2 | 13334.8 | 13370.2 | 13158.1 |
| 7109.3 | 35° | 7144.6 | 7405.3 | 7692.5 | 7913.4 | 8403.9 | 9022.5 | 8973.8 | 8929.7 | 8783.9 |
| 4674.7 | 37.5° | 4776.3 | 4878.0 | 5037.0 | 5235.9 | 5554.0 | 5942.8 | 6070.9 | 5911.9 | 5850.0 |
| 3154.8 | 40° | 3229.9 | 3406.6 | 3512.7 | 3662.9 | 3813.1 | 4140.1 | 4228.4 | 4197.5 | 4135.7 |
| 2209.2 | 42.5° | 2293.2 | 2430.1 | 2562.7 | 2708.5 | 2788.0 | 2991.3 | 3163.6 | 3115.0 | 3088.5 |
| 1679.0 | 45° | 1740.9 | 1864.6 | 2019.2 | 2129.7 | 2209.2 | 2328.5 | 2492.0 | 2509.7 | 2469.9 |
| 1347.6 | 47.5° | 1396.2 | 1506.7 | 1630.4 | 1767.4 | 1860.2 | 1935.3 | 2076.7 | 2129.7 | 2103.2 |
| 1135.5 | 50° | 1184.1 | 1268.1 | 1387.4 | 1524.4 | 1626.0 | 1692.3 | 1816.0 | 1873.4 | 1855.7 |
| 950.0 | 52.5° | 1007.4 | 1109.0 | 1219.5 | 1334.4 | 1458.1 | 1524.4 | 1639.2 | 1723.2 | 1709.9 |
| 786.5 | 55° | 835.1 | 967.6 | 1082.5 | 1197.4 | 1338.8 | 1405.1 | 1506.7 | 1617.1 | 1595.1 |
| 667.2 | 57.5° | 729.0 | 839.5 | 958.8 | 1069.3 | 1219.5 | 1307.9 | 1400.6 | 1515.5 | 1511.1 |
| 547.9 | 60° | 609.7 | 720.2 | 852.8 | 945.5 | 1104.6 | 1228.3 | 1312.3 | 1431.6 | 1440.4 |
| 415.3 | 62.5° | 486.0 | 623.0 | 724.6 | 852.8 | 998.6 | 1144.4 | 1223.9 | 1343.2 | 1387.4 |
| 318.1 | 65° | 362.3 | 512.5 | 627.4 | 755.6 | 892.5 | 1056.0 | 1126.7 | 1246.0 | 1290.2 |
| 229.8 | 67.5° | 269.5 | 384.4 | 530.2 | 640.7 | 795.3 | 936.7 | 1020.7 | 1131.1 | 1162.0 |
| 137.0 | 70° | 203.2 | 296.0 | 441.8 | 539.0 | 698.1 | 813.0 | 896.9 | 980.9 | 1020.7 |
| 92.8 | 72.5° | 119.3 | 220.9 | 349.1 | 463.9 | 600.9 | 698.1 | 760.0 | 826.2 | 852.8 |
| 44.2 | 75° | 84.0 | 167.9 | 273.9 | 384.4 | 486.0 | 565.6 | 623.0 | 680.4 | 707.0 |
| 22.1 | 77.5° | 44.2 | 123.7 | 216.5 | 309.3 | 380.0 | 446.3 | 503.7 | 547.9 | 565.6 |
| 17.7 | 80° | 26.5 | 88.4 | 176.7 | 243.0 | 291.6 | 349.1 | 406.5 | 437.4 | 433.0 |
| 13.3 | 82.5° | 17.7 | 70.7 | 128.1 | 176.7 | 212.1 | 256.3 | 296.0 | 318.1 | 318.1 |
| 8.8 | 85° | 13.3 | 48.6 | 88.4 | 137.0 | 141.4 | 176.7 | 185.6 | 207.7 | 212.1 |
| 8.8 | 87.5° | 8.8 | 30.9 | 48.6 | 79.5 | 75.1 | 92.8 | 97.2 | 110.5 | 119.3 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
53379.2
53600.1
55097.9
55614.9
54810.7
53295.2
50843.0
46570.3
41352.2
35170.8
29563.8
23687.3
18504.4
13277.4
8655.7
5836.8
4144.5
3066.4
2465.5
2089.9
1851.3
1701.1
1595.1
1506.7
1440.4
1383.0
1285.8
1162.0
1011.8
843.9
698.1
561.1
428.6
313.7
207.7
114.9
0.0

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