

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: P575186

Luminaire Tested: **EPH-VN-08-750-U-T2R-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575186
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-750-U-T2R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens and House Side Shield
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

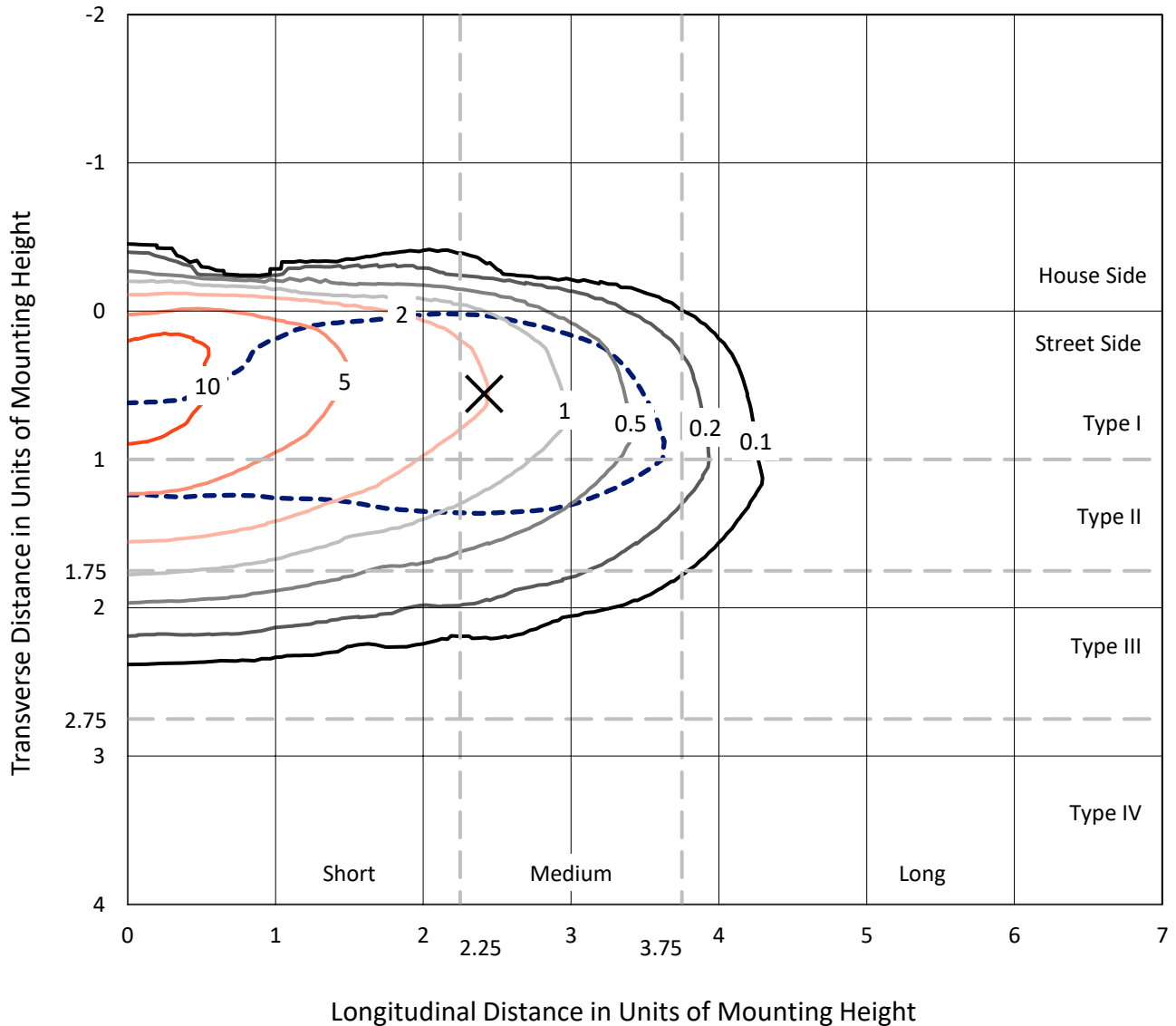
Lumens per Lamp: N/A
Luminaire Lumens: 38740.1 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 488.3
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

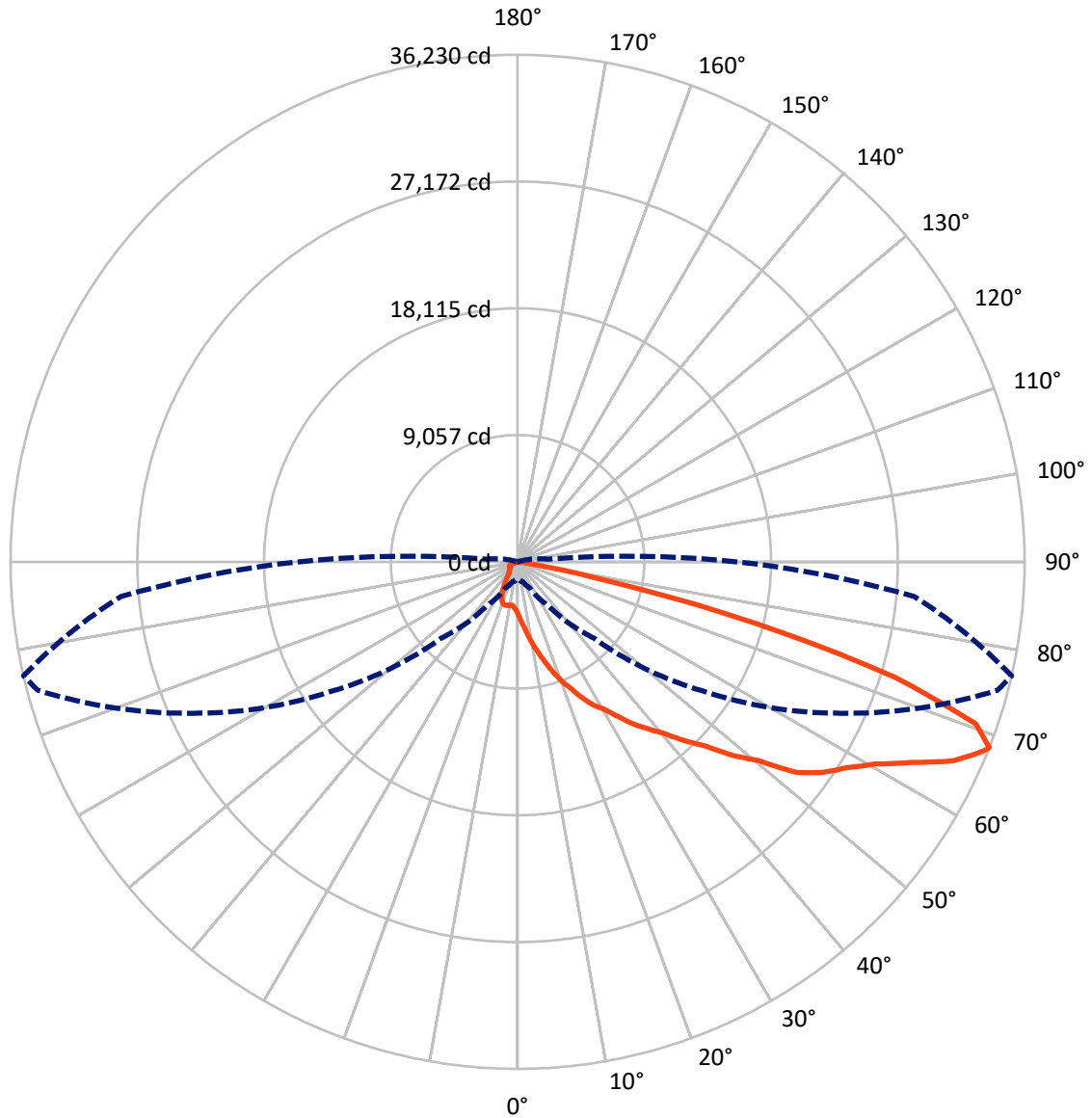
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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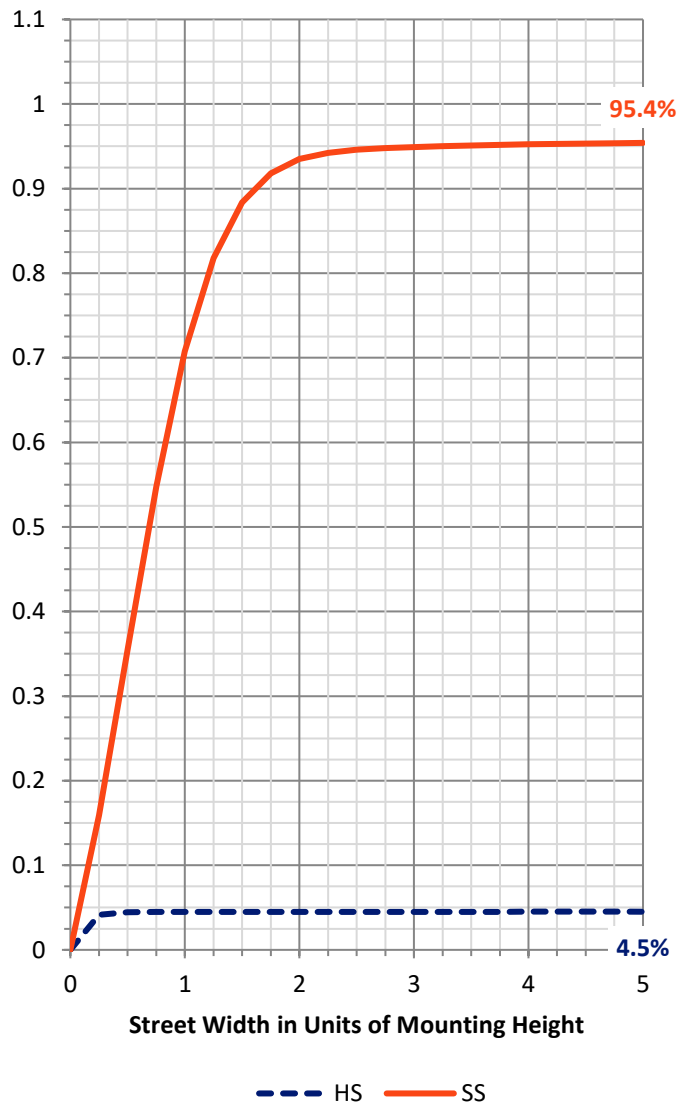
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1756.8 | 0.0 | 1756.8 |
| | % Fixture | 4.5 | 0.0 | 4.5 |
| Street Side | Lumens | 36983.3 | 0.0 | 36983.3 |
| | % Fixture | 95.5 | 0.0 | 95.5 |
| Total | Lumens | 38740.1 | 0.0 | 38740.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 433.4 | 1.1 |
| 10°-20° | 1598.3 | 4.1 |
| 20°-30° | 3097.5 | 8.0 |
| 30°-40° | 5400.0 | 13.9 |
| 40°-50° | 7908.7 | 20.4 |
| 50°-60° | 9291.5 | 24.0 |
| 60°-70° | 7845.9 | 20.3 |
| 70°-80° | 3041.2 | 7.9 |
| 80°-90° | 123.7 | 0.3 |
| 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° | 38740.1 | 100.0 |
| 0°-180° | 38740.1 | 100.0 |

Coefficient of Utilization

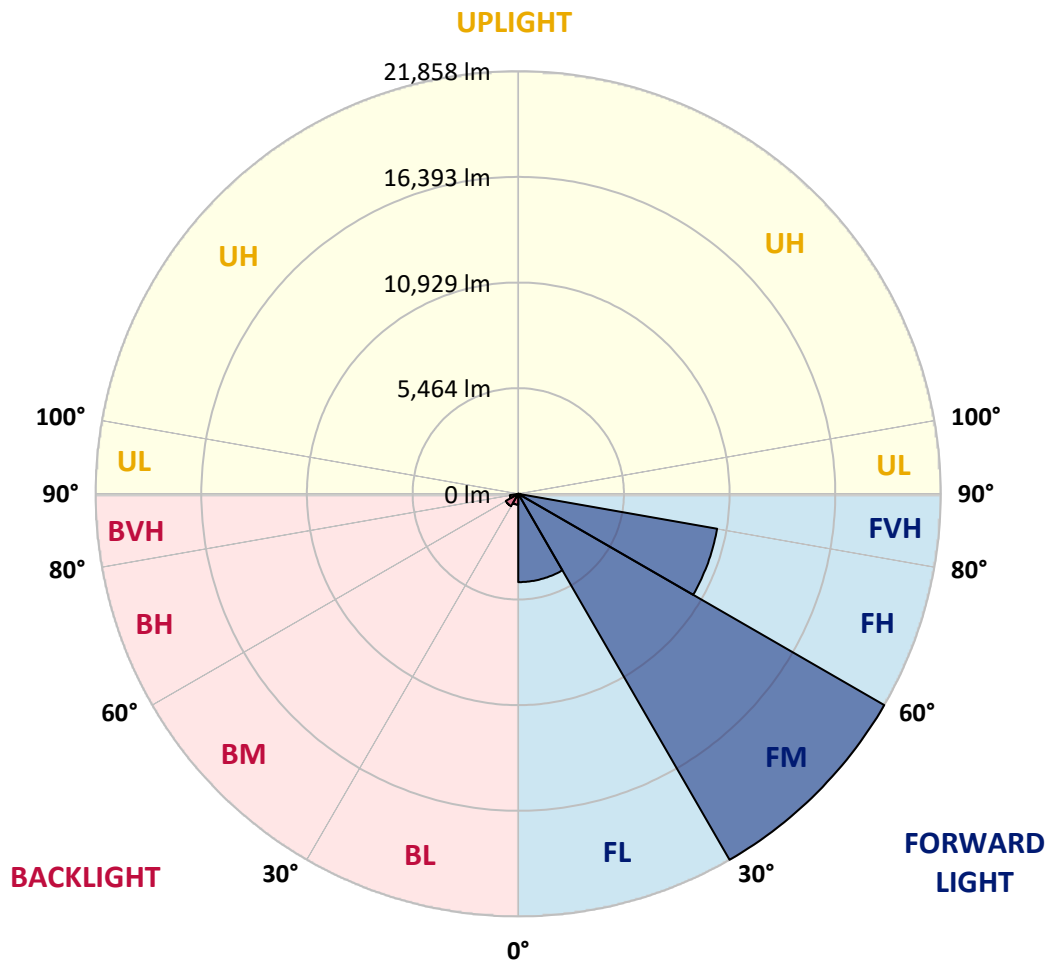


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 4567.8 | 11.8 | | | |
| FM (30°-60°) | 21857.9 | 56.4 | | | |
| FH (60°-80°) | 10443.5 | 27.0 | | | G4/12000 |
| FVH (80°-90°) | 114.1 | 0.3 | | | G2/225 |
| BL (0°-30°) | 561.3 | 1.4 | B2/1000 | | |
| BM (30°-60°) | 742.4 | 1.9 | B1/1000 | | |
| BH (60°-80°) | 443.6 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 9.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3709.4 | 3709.4 | 3709.4 | 3709.4 | 3709.4 | 3709.4 | 3709.4 | 3709.4 | 3709.4 | 3709.4 |
| 2.5° | 5636.2 | 5529.4 | 5417.4 | 5385.3 | 5177.2 | 4942.3 | 4723.5 | 4510.0 | 4152.4 | 4157.8 |
| 5° | 7264.1 | 7130.6 | 7039.9 | 7018.6 | 6693.0 | 6287.3 | 5956.4 | 5353.3 | 4760.9 | 4627.4 |
| 7.5° | 8603.7 | 8561.0 | 8427.6 | 8315.5 | 8075.3 | 7579.0 | 7189.3 | 6324.7 | 5422.7 | 5273.3 |
| 10° | 9415.0 | 9479.0 | 9537.8 | 9393.7 | 9206.8 | 8849.2 | 8315.5 | 7381.5 | 6175.3 | 5988.5 |
| 12.5° | 10279.6 | 10172.9 | 10210.3 | 10327.7 | 10082.2 | 10002.1 | 9340.3 | 8470.3 | 7055.9 | 6698.3 |
| 15° | 10503.8 | 10546.5 | 10637.2 | 10978.8 | 11144.3 | 10914.8 | 10343.7 | 9351.0 | 7968.6 | 7472.2 |
| 17.5° | 10653.3 | 10631.9 | 10744.0 | 11256.4 | 11507.2 | 11726.1 | 11368.5 | 10333.0 | 8763.8 | 8320.9 |
| 20° | 10840.1 | 10722.6 | 10968.2 | 11293.7 | 11875.5 | 12334.5 | 12318.5 | 11320.4 | 9596.5 | 9126.8 |
| 22.5° | 11533.9 | 11443.2 | 11640.7 | 11672.7 | 12078.3 | 12718.8 | 12873.6 | 12126.4 | 10450.4 | 9874.0 |
| 25° | 12814.9 | 12980.3 | 12745.5 | 12542.7 | 12665.4 | 13087.1 | 13199.1 | 12841.5 | 11309.7 | 10781.4 |
| 27.5° | 14688.3 | 14666.9 | 14202.6 | 13941.0 | 13647.5 | 13594.1 | 13674.2 | 13508.7 | 11987.6 | 11608.6 |
| 30° | 16700.4 | 16524.3 | 16097.3 | 15467.5 | 14821.7 | 14421.4 | 14309.3 | 14138.5 | 12782.8 | 12233.1 |
| 32.5° | 18301.6 | 18397.7 | 17922.7 | 17100.7 | 16027.9 | 15488.9 | 14949.8 | 14763.0 | 13658.2 | 13172.5 |
| 35° | 19774.7 | 19646.6 | 19267.7 | 18573.8 | 17613.1 | 16743.1 | 15899.8 | 15499.5 | 14709.6 | 14229.2 |
| 37.5° | 20863.5 | 21023.6 | 20303.1 | 19641.3 | 18685.9 | 17965.4 | 17138.1 | 16262.8 | 15793.1 | 15152.6 |
| 40° | 21893.6 | 21642.8 | 21157.1 | 20548.6 | 19662.6 | 19112.9 | 18568.5 | 17202.1 | 16945.9 | 16118.7 |
| 42.5° | 21712.1 | 21728.2 | 21461.3 | 20970.3 | 20329.8 | 20014.9 | 19828.1 | 18344.3 | 17992.0 | 17463.7 |
| 45° | 20970.3 | 21034.3 | 21125.0 | 20884.9 | 20938.2 | 20623.3 | 21125.0 | 19657.3 | 19310.4 | 18749.9 |
| 47.5° | 20153.7 | 20260.4 | 20239.0 | 20676.7 | 21173.1 | 21279.8 | 22534.1 | 21114.4 | 20964.9 | 20655.4 |
| 50° | 18798.0 | 18840.7 | 19251.6 | 20046.9 | 20724.7 | 21840.2 | 23590.9 | 22704.9 | 22934.4 | 22325.9 |
| 52.5° | 16481.6 | 16636.4 | 17693.2 | 18830.0 | 20196.4 | 22123.1 | 24306.1 | 25069.3 | 25651.1 | 25026.6 |
| 55° | 13551.4 | 13764.9 | 14805.7 | 16935.3 | 18936.7 | 21696.1 | 24957.2 | 26318.2 | 27497.8 | 26553.1 |
| 57.5° | 10904.1 | 10925.5 | 11859.5 | 14058.5 | 17148.8 | 20858.2 | 25288.1 | 26926.7 | 28511.9 | 27754.0 |
| 60° | 8310.2 | 8224.8 | 9062.7 | 10968.2 | 14138.5 | 18798.0 | 24460.9 | 27236.3 | 29776.8 | 29339.1 |
| 62.5° | 5348.0 | 5214.5 | 6127.2 | 7984.6 | 11042.9 | 15366.1 | 22806.3 | 27241.6 | 31751.6 | 31586.2 |
| 65° | 2647.3 | 2556.6 | 3341.2 | 4894.3 | 7643.0 | 11752.7 | 20447.2 | 27140.2 | 34164.1 | 34270.8 |
| 67.5° | 1398.4 | 1430.4 | 1681.3 | 2481.8 | 4408.6 | 8304.8 | 16892.6 | 25950.0 | 35397.0 | 35994.8 |
| 68° | 1286.3 | 1297.0 | 1494.4 | 2065.5 | 3826.8 | 7701.7 | 16049.3 | 25603.0 | 35493.1 | 36229.6 |
| 70° | 1046.1 | 1062.1 | 1131.5 | 1297.0 | 2070.9 | 5011.7 | 12382.5 | 22656.8 | 34046.6 | 34719.1 |
| 72.5° | 832.6 | 880.7 | 923.4 | 992.7 | 1216.9 | 2631.3 | 7701.7 | 17655.8 | 28127.6 | 28202.3 |
| 75° | 635.1 | 672.5 | 757.9 | 816.6 | 950.0 | 1446.4 | 3666.7 | 10765.3 | 18456.4 | 17549.0 |
| 77.5° | 491.0 | 523.1 | 560.4 | 640.5 | 795.3 | 976.7 | 1120.8 | 4568.7 | 7840.5 | 6452.8 |
| 80° | 293.6 | 314.9 | 437.7 | 501.7 | 693.8 | 661.8 | 443.0 | 1270.3 | 1590.5 | 1254.3 |
| 82.5° | 170.8 | 186.8 | 250.9 | 384.3 | 485.7 | 357.6 | 261.5 | 395.0 | 389.6 | 341.6 |
| 85° | 5.3 | 10.7 | 138.8 | 229.5 | 170.8 | 96.1 | 160.1 | 165.5 | 138.8 | 128.1 |
| 87.5° | 0.0 | 5.3 | 37.4 | 32.0 | 37.4 | 21.3 | 32.0 | 42.7 | 53.4 | 48.0 |
| 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-08-750-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3709.4 | 0° | 3709.4 | 3709.4 | 3709.4 | 3709.4 | 3709.4 | 3709.4 | 3709.4 | 3709.4 | 3709.4 | 3709.4 |
| 3912.2 | 2.5° | 3746.8 | 3629.4 | 3367.8 | 3170.4 | 2956.9 | 2828.8 | 2700.7 | 2620.6 | 2577.9 | 2551.2 |
| 4179.1 | 5° | 3842.9 | 3597.3 | 3175.7 | 2802.1 | 2556.6 | 2391.1 | 2225.7 | 2140.3 | 2060.2 | 2017.5 |
| 4504.7 | 7.5° | 4056.3 | 3688.1 | 2988.9 | 2583.3 | 2295.0 | 2038.8 | 1830.7 | 1665.2 | 1569.2 | 1483.8 |
| 4926.3 | 10° | 4317.9 | 3741.4 | 2994.2 | 2455.2 | 2038.8 | 1633.2 | 1339.7 | 1131.5 | 1014.1 | 939.4 |
| 5460.1 | 12.5° | 4584.7 | 3949.6 | 3015.6 | 2327.1 | 1723.9 | 1227.6 | 880.7 | 725.9 | 656.5 | 619.1 |
| 5956.4 | 15° | 4990.4 | 4136.4 | 2962.2 | 2092.2 | 1307.6 | 800.6 | 603.1 | 549.7 | 523.1 | 491.0 |
| 6575.6 | 17.5° | 5342.6 | 4435.3 | 2935.5 | 1740.0 | 896.7 | 576.4 | 501.7 | 443.0 | 416.3 | 384.3 |
| 7189.3 | 20° | 5817.7 | 4622.1 | 2791.4 | 1345.0 | 619.1 | 480.4 | 405.6 | 352.3 | 309.6 | 282.9 |
| 7851.2 | 22.5° | 6250.0 | 4766.2 | 2535.2 | 918.0 | 475.0 | 378.9 | 298.9 | 245.5 | 208.2 | 176.1 |
| 8513.0 | 25° | 6719.7 | 4910.3 | 2161.6 | 565.8 | 336.3 | 234.8 | 160.1 | 117.4 | 80.1 | 58.7 |
| 9057.4 | 27.5° | 7055.9 | 4953.0 | 1675.9 | 336.3 | 202.8 | 106.7 | 37.4 | 5.3 | 0.0 | 0.0 |
| 9596.5 | 30° | 7397.5 | 4969.0 | 1158.2 | 181.5 | 80.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10215.6 | 32.5° | 7787.1 | 4963.7 | 725.9 | 96.1 | 5.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10898.8 | 35° | 8086.0 | 4873.0 | 346.9 | 10.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11731.4 | 37.5° | 8539.7 | 4739.5 | 106.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12670.8 | 40° | 9057.4 | 4499.3 | 21.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 13588.8 | 42.5° | 9521.7 | 4253.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14645.6 | 45° | 10050.1 | 3949.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 16108.0 | 47.5° | 10978.8 | 3821.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 17847.9 | 50° | 12190.4 | 3720.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 19518.5 | 52.5° | 12937.6 | 3421.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20532.6 | 55° | 13327.2 | 3111.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 21770.9 | 57.5° | 13903.7 | 2962.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 23260.0 | 60° | 14757.6 | 2972.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25752.5 | 62.5° | 16092.0 | 3122.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 28181.0 | 65° | 16828.5 | 2972.9 | 21.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 28768.1 | 67.5° | 16204.0 | 2380.4 | 101.4 | 26.7 | 5.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 28442.5 | 68° | 15665.0 | 2188.3 | 101.4 | 26.7 | 5.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25747.1 | 70° | 12948.3 | 1425.1 | 96.1 | 26.7 | 10.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20041.6 | 72.5° | 9431.0 | 789.9 | 80.1 | 21.3 | 10.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11806.1 | 75° | 5486.7 | 395.0 | 58.7 | 21.3 | 10.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3335.8 | 77.5° | 1430.4 | 197.5 | 48.0 | 26.7 | 16.0 | 5.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 608.5 | 80° | 282.9 | 128.1 | 42.7 | 32.0 | 21.3 | 10.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 202.8 | 82.5° | 133.4 | 90.7 | 42.7 | 32.0 | 26.7 | 16.0 | 5.3 | 0.0 | 0.0 | 0.0 |
| 90.7 | 85° | 69.4 | 42.7 | 42.7 | 32.0 | 32.0 | 21.3 | 10.7 | 0.0 | 0.0 | 0.0 |
| 37.4 | 87.5° | 32.0 | 16.0 | 16.0 | 16.0 | 16.0 | 10.7 | 5.3 | 0.0 | 0.0 | 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 |

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