

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: P575220

Luminaire Tested: **EPH-VN-08-740-U-T3-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575220
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-740-U-T3-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens and House Side Shield
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

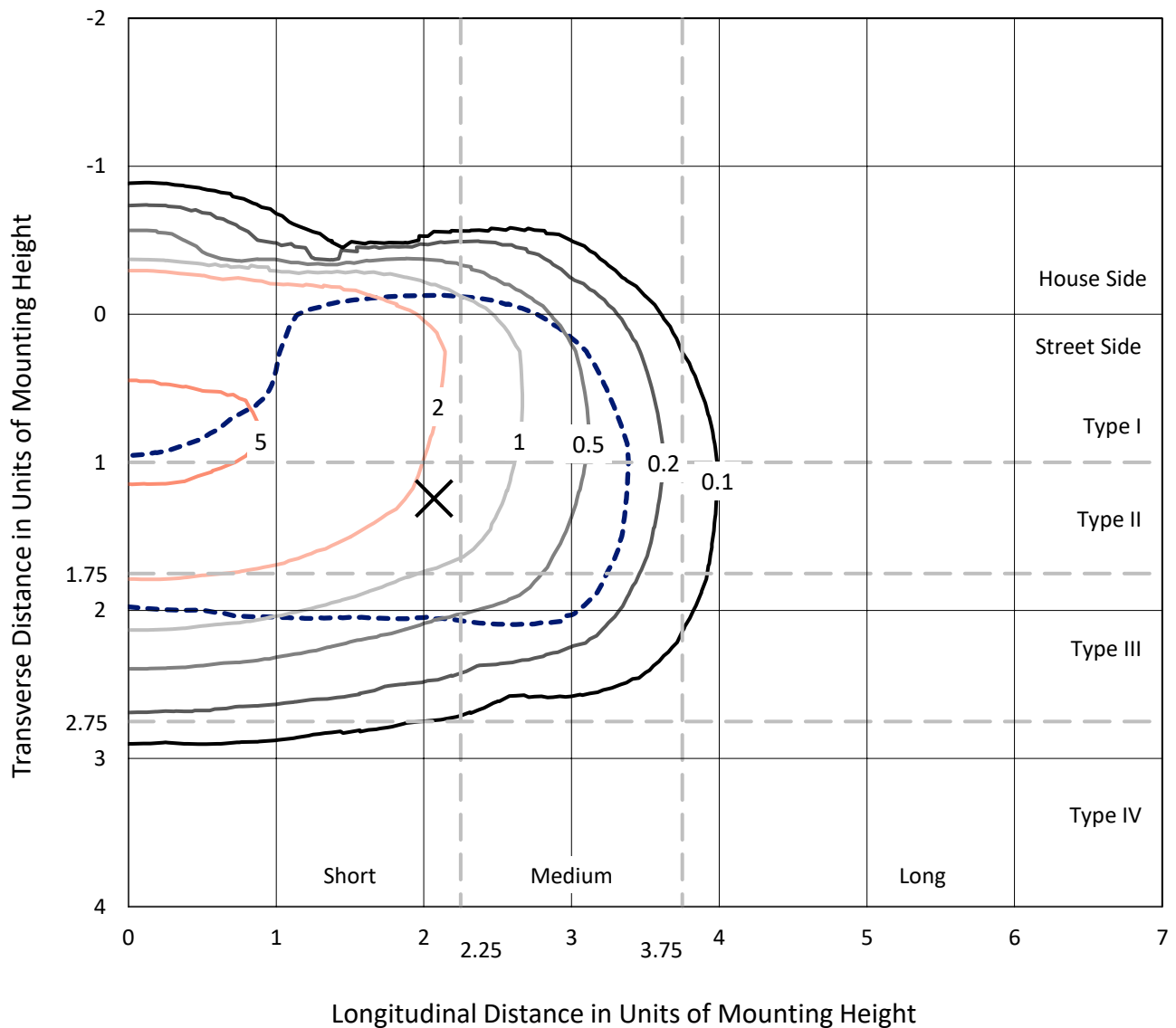
Lumens per Lamp: N/A
Luminaire Lumens: 35744.5 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

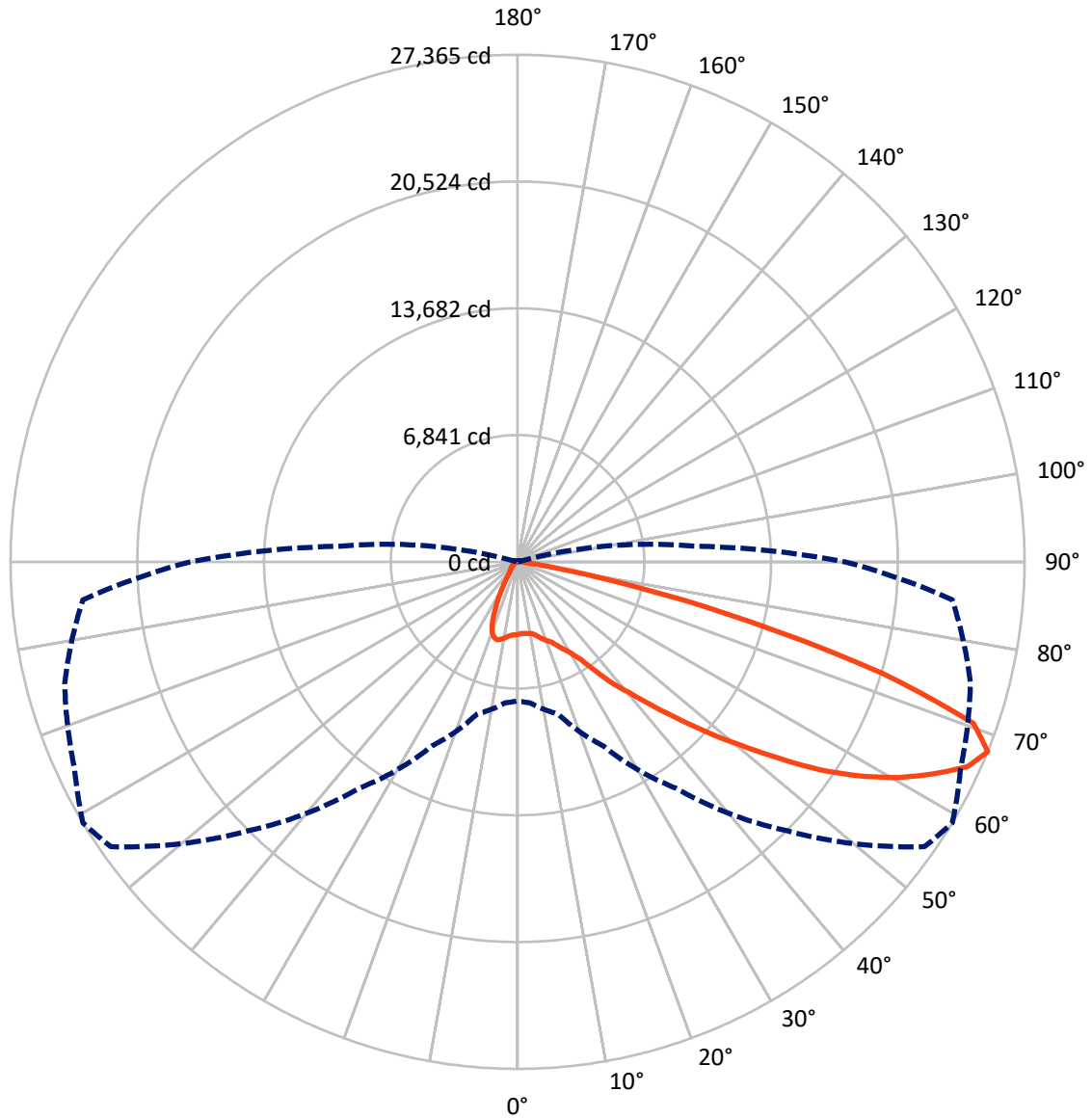
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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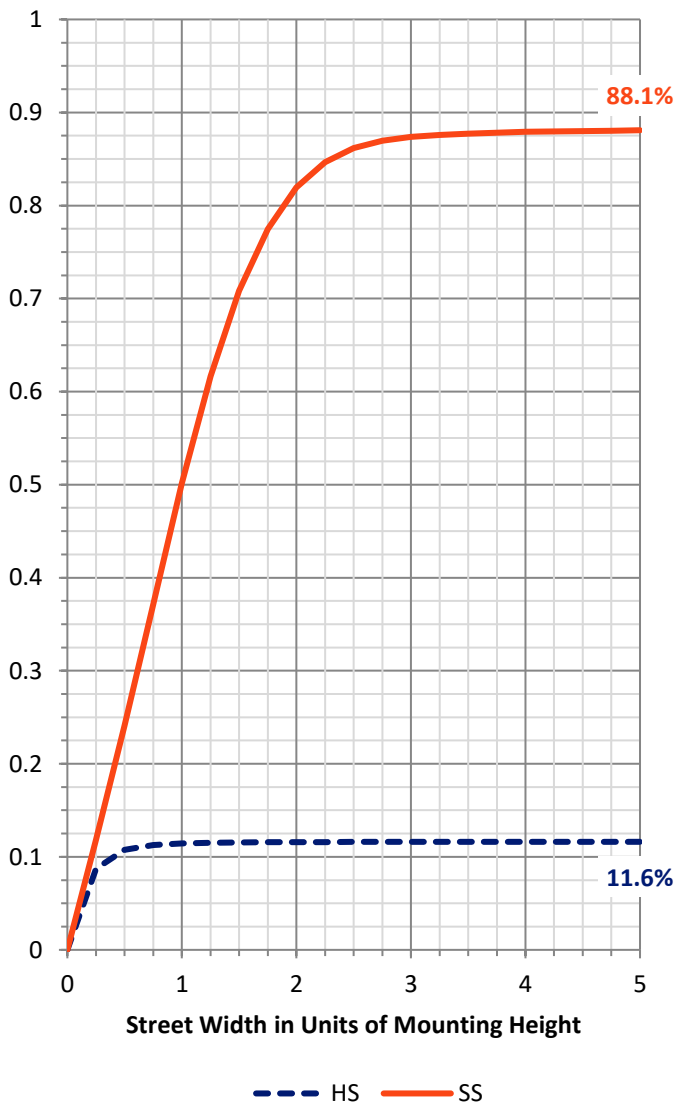
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4198.8 | 0.0 | 4198.8 |
| | % Fixture | 11.7 | 0.0 | 11.7 |
| Street Side | Lumens | 31545.7 | 0.0 | 31545.7 |
| | % Fixture | 88.3 | 0.0 | 88.3 |
| Total | Lumens | 35744.5 | 0.0 | 35744.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 372.4 | 1.0 |
| 10°-20° | 1075.7 | 3.0 |
| 20°-30° | 1880.1 | 5.3 |
| 30°-40° | 3310.2 | 9.3 |
| 40°-50° | 5851.3 | 16.4 |
| 50°-60° | 9264.7 | 25.9 |
| 60°-70° | 10277.2 | 28.8 |
| 70°-80° | 3565.9 | 10.0 |
| 80°-90° | 146.8 | 0.4 |
| 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° | 35744.5 | 100.0 |
| 0°-180° | 35744.5 | 100.0 |

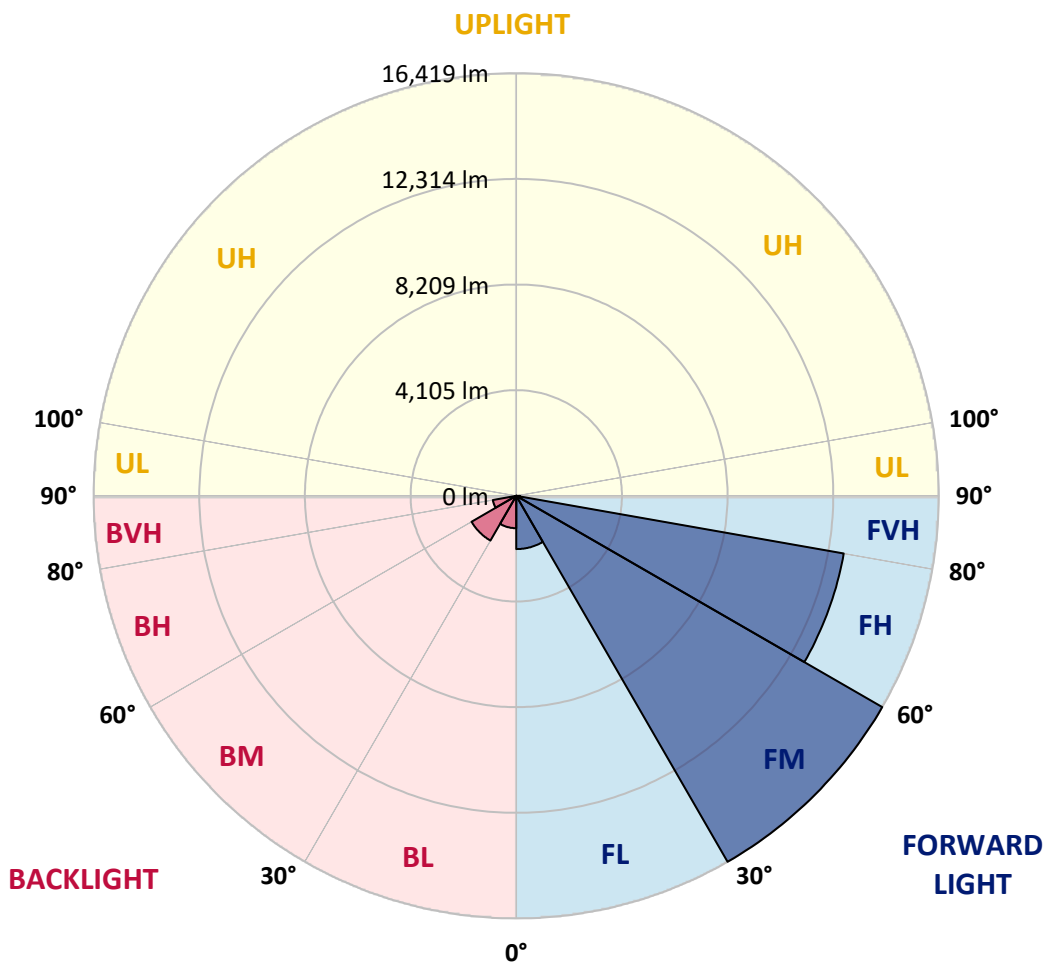


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2069.9 | 5.8 | | | |
| FM (30°-60°) | 16418.7 | 45.9 | | | |
| FH (60°-80°) | 12919.7 | 36.1 | | | G5 |
| FVH (80°-90°) | 137.3 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1258.4 | 3.5 | B3/2500 | | |
| BM (30°-60°) | 2007.5 | 5.6 | B2/2500 | | |
| BH (60°-80°) | 923.4 | 2.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 9.5 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3920.5 | 3920.5 | 3920.5 | 3920.5 | 3920.5 | 3920.5 | 3920.5 | 3920.5 | 3920.5 | 3920.5 |
| 2.5° | 3807.0 | 3752.6 | 3802.0 | 3807.0 | 3811.9 | 3856.3 | 3905.7 | 3871.1 | 3866.2 | 3905.7 |
| 5° | 3653.9 | 3629.2 | 3688.5 | 3718.1 | 3767.5 | 3807.0 | 3886.0 | 3890.9 | 3895.8 | 3940.3 |
| 7.5° | 3589.7 | 3530.4 | 3599.6 | 3634.1 | 3668.7 | 3762.5 | 3856.3 | 3905.7 | 3974.8 | 4029.2 |
| 10° | 3461.3 | 3505.8 | 3525.5 | 3584.8 | 3683.5 | 3792.1 | 3905.7 | 3930.4 | 4083.5 | 4127.9 |
| 12.5° | 3505.8 | 3535.4 | 3574.9 | 3589.7 | 3698.3 | 3861.3 | 4014.3 | 4024.2 | 4182.2 | 4374.8 |
| 15° | 3619.3 | 3599.6 | 3614.4 | 3634.1 | 3762.5 | 3895.8 | 4142.7 | 4187.2 | 4335.3 | 4552.5 |
| 17.5° | 3861.3 | 3826.7 | 3802.0 | 3797.1 | 3826.7 | 3950.2 | 4241.5 | 4374.8 | 4513.0 | 4809.3 |
| 20° | 4468.6 | 4439.0 | 4340.2 | 4083.5 | 3994.6 | 4044.0 | 4360.0 | 4547.6 | 4740.2 | 5071.0 |
| 22.5° | 5392.0 | 5421.6 | 5189.5 | 4829.1 | 4458.7 | 4266.2 | 4547.6 | 4710.6 | 5016.7 | 5436.4 |
| 25° | 6483.2 | 6423.9 | 6142.5 | 5722.8 | 5140.1 | 4685.9 | 4848.8 | 5031.5 | 5406.8 | 5752.4 |
| 27.5° | 7337.4 | 7268.3 | 7051.0 | 6542.4 | 6038.8 | 5303.1 | 5243.8 | 5357.4 | 5801.8 | 6112.9 |
| 30° | 8181.7 | 8206.4 | 8058.3 | 7455.9 | 6833.8 | 6058.5 | 5683.3 | 5732.7 | 6073.4 | 6473.3 |
| 32.5° | 9258.2 | 9198.9 | 9115.0 | 8586.6 | 7850.9 | 7021.4 | 6379.5 | 6300.5 | 6448.6 | 6977.0 |
| 35° | 10260.5 | 10226.0 | 10112.4 | 9579.1 | 8937.2 | 8033.6 | 7406.5 | 7228.8 | 7194.2 | 7781.8 |
| 37.5° | 11134.5 | 11075.2 | 10902.4 | 10561.7 | 9939.6 | 9179.2 | 8492.8 | 8334.8 | 8329.9 | 8734.8 |
| 40° | 11870.2 | 11914.6 | 11894.9 | 11519.6 | 11178.9 | 10571.6 | 9519.9 | 9268.0 | 9248.3 | 9465.5 |
| 42.5° | 12823.2 | 12926.9 | 12872.6 | 12798.5 | 12388.7 | 12151.7 | 10961.7 | 10576.5 | 10403.7 | 10848.1 |
| 45° | 14265.0 | 14304.5 | 14339.0 | 14156.4 | 13746.5 | 13795.9 | 12452.9 | 11993.6 | 11949.2 | 12610.9 |
| 47.5° | 15613.0 | 15509.3 | 15751.2 | 15761.1 | 15741.4 | 15514.2 | 14062.5 | 13721.8 | 13781.1 | 14284.7 |
| 50° | 15948.7 | 16215.4 | 16882.0 | 17005.4 | 17326.3 | 17533.7 | 15850.0 | 15509.3 | 15608.0 | 16180.8 |
| 52.5° | 16210.4 | 16615.3 | 17281.9 | 18185.5 | 19049.6 | 19543.4 | 17849.7 | 17573.2 | 17568.3 | 17918.9 |
| 55° | 16669.6 | 16916.5 | 17494.2 | 18738.5 | 20382.8 | 21192.6 | 20259.3 | 19814.9 | 19415.0 | 19661.9 |
| 57.5° | 16625.2 | 16719.0 | 17617.7 | 19153.3 | 21439.4 | 22910.9 | 22239.3 | 21814.7 | 21301.2 | 21158.0 |
| 60° | 15845.0 | 16067.2 | 17074.5 | 18871.8 | 22091.2 | 24249.0 | 24086.0 | 23651.5 | 22767.7 | 22431.9 |
| 62.5° | 14299.5 | 14595.8 | 15385.8 | 17884.3 | 21143.2 | 24318.1 | 25360.0 | 25197.0 | 24209.5 | 23607.1 |
| 65° | 11588.8 | 11727.0 | 12635.5 | 15376.0 | 19000.2 | 23256.5 | 26866.0 | 26663.5 | 25755.0 | 24856.3 |
| 67.5° | 7505.3 | 7638.6 | 8512.6 | 10976.5 | 14921.7 | 20516.1 | 26806.7 | 27364.7 | 26382.1 | 25300.7 |
| 70° | 3545.3 | 3510.7 | 4325.4 | 6098.0 | 9559.4 | 15667.3 | 24994.6 | 26095.7 | 25261.2 | 22935.6 |
| 72.5° | 1081.4 | 1175.2 | 1797.3 | 2700.9 | 4908.1 | 9771.7 | 19592.7 | 20624.7 | 20363.0 | 18323.8 |
| 75° | 479.0 | 518.5 | 706.1 | 1106.0 | 1989.9 | 4009.4 | 12102.3 | 13020.7 | 12907.1 | 10808.6 |
| 77.5° | 306.1 | 335.8 | 444.4 | 632.0 | 903.6 | 1273.9 | 5574.7 | 6468.4 | 6270.9 | 3797.1 |
| 80° | 217.3 | 232.1 | 316.0 | 434.5 | 567.8 | 523.4 | 1920.8 | 2281.2 | 2187.4 | 1032.0 |
| 82.5° | 118.5 | 128.4 | 232.1 | 320.9 | 380.2 | 266.6 | 538.2 | 671.5 | 701.2 | 459.2 |
| 85° | 44.4 | 54.3 | 143.2 | 227.1 | 197.5 | 123.4 | 158.0 | 192.6 | 251.8 | 251.8 |
| 87.5° | 0.0 | 4.9 | 59.3 | 98.8 | 49.4 | 34.6 | 44.4 | 54.3 | 69.1 | 118.5 |
| 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-08-740-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3920.5 | 0° | 3920.5 | 3920.5 | 3920.5 | 3920.5 | 3920.5 | 3920.5 | 3920.5 | 3920.5 | 3920.5 | 3920.5 |
| 3940.3 | 2.5° | 3965.0 | 3930.4 | 3945.2 | 3969.9 | 3915.6 | 3945.2 | 3886.0 | 3930.4 | 3945.2 | 3886.0 |
| 3999.5 | 5° | 4014.3 | 4048.9 | 4029.2 | 3989.7 | 3955.1 | 3965.0 | 3950.2 | 3915.6 | 3945.2 | 3955.1 |
| 4088.4 | 7.5° | 4157.5 | 4118.0 | 4127.9 | 4083.5 | 4014.3 | 4009.4 | 3915.6 | 3890.9 | 3900.8 | 3910.6 |
| 4271.1 | 10° | 4290.9 | 4315.5 | 4266.2 | 4231.6 | 4118.0 | 4044.0 | 3915.6 | 3777.3 | 3762.5 | 3703.3 |
| 4448.9 | 12.5° | 4527.9 | 4468.6 | 4448.9 | 4335.3 | 4221.7 | 3974.8 | 3698.3 | 3486.0 | 3308.3 | 3244.1 |
| 4735.2 | 15° | 4725.4 | 4715.5 | 4680.9 | 4508.1 | 4246.4 | 3797.1 | 3273.7 | 2779.9 | 2439.2 | 2226.9 |
| 4903.1 | 17.5° | 4996.9 | 4952.5 | 4888.3 | 4616.7 | 4063.7 | 3332.9 | 2439.2 | 1817.1 | 1476.4 | 1343.1 |
| 5224.1 | 20° | 5204.3 | 5169.8 | 5080.9 | 4592.1 | 3732.9 | 2483.7 | 1510.9 | 1155.4 | 1071.5 | 1046.8 |
| 5574.7 | 22.5° | 5505.5 | 5396.9 | 5229.0 | 4468.6 | 3130.5 | 1654.1 | 1086.3 | 1032.0 | 1017.2 | 997.4 |
| 5806.7 | 25° | 5767.2 | 5668.5 | 5317.9 | 4256.3 | 2231.8 | 1096.2 | 1007.3 | 977.7 | 953.0 | 928.3 |
| 6053.6 | 27.5° | 5999.3 | 5875.8 | 5411.7 | 3821.8 | 1397.4 | 943.1 | 933.2 | 898.7 | 849.3 | 809.8 |
| 6340.0 | 30° | 6226.4 | 6083.2 | 5436.4 | 3007.1 | 943.1 | 854.2 | 829.5 | 775.2 | 711.0 | 656.7 |
| 6818.9 | 32.5° | 6606.6 | 6433.8 | 5401.8 | 2147.9 | 814.7 | 760.4 | 706.1 | 641.9 | 548.1 | 503.6 |
| 7505.3 | 35° | 7199.1 | 6937.5 | 5357.4 | 1264.0 | 730.8 | 671.5 | 587.6 | 503.6 | 434.5 | 390.1 |
| 8201.5 | 37.5° | 7880.6 | 7426.3 | 5229.0 | 844.3 | 671.5 | 592.5 | 483.9 | 400.0 | 340.7 | 306.1 |
| 9154.5 | 40° | 8892.8 | 8142.2 | 4735.2 | 691.3 | 597.5 | 503.6 | 390.1 | 316.0 | 271.6 | 246.9 |
| 10566.7 | 42.5° | 10008.7 | 8961.9 | 3974.8 | 622.1 | 528.3 | 429.6 | 311.1 | 256.8 | 222.2 | 197.5 |
| 11978.8 | 45° | 11346.8 | 9816.1 | 3066.3 | 567.8 | 469.1 | 355.5 | 256.8 | 207.4 | 177.8 | 158.0 |
| 13633.0 | 47.5° | 12838.0 | 10591.3 | 2068.9 | 513.5 | 395.0 | 291.3 | 212.3 | 158.0 | 128.4 | 113.6 |
| 15435.2 | 50° | 14171.2 | 11277.7 | 1318.4 | 449.3 | 345.6 | 241.9 | 172.8 | 128.4 | 103.7 | 83.9 |
| 16891.8 | 52.5° | 15380.9 | 11801.1 | 908.5 | 395.0 | 296.3 | 197.5 | 143.2 | 103.7 | 79.0 | 64.2 |
| 18402.8 | 55° | 16620.3 | 12067.7 | 671.5 | 340.7 | 256.8 | 167.9 | 118.5 | 93.8 | 69.1 | 54.3 |
| 20140.8 | 57.5° | 17637.4 | 12181.3 | 513.5 | 296.3 | 217.3 | 133.3 | 103.7 | 79.0 | 59.3 | 44.4 |
| 21474.0 | 60° | 18506.5 | 12127.0 | 400.0 | 246.9 | 172.8 | 113.6 | 88.9 | 64.2 | 49.4 | 34.6 |
| 23212.1 | 62.5° | 19015.0 | 11801.1 | 316.0 | 212.3 | 138.3 | 98.8 | 74.1 | 54.3 | 34.6 | 24.7 |
| 24105.8 | 65° | 19024.9 | 11109.8 | 246.9 | 158.0 | 103.7 | 83.9 | 64.2 | 44.4 | 24.7 | 9.9 |
| 23547.8 | 67.5° | 17662.1 | 9613.7 | 197.5 | 123.4 | 83.9 | 64.2 | 49.4 | 34.6 | 9.9 | 0.0 |
| 19558.2 | 70° | 13815.7 | 7273.2 | 162.9 | 98.8 | 69.1 | 54.3 | 34.6 | 19.8 | 4.9 | 0.0 |
| 13055.2 | 72.5° | 8803.9 | 4355.0 | 133.3 | 79.0 | 59.3 | 39.5 | 24.7 | 14.8 | 0.0 | 0.0 |
| 5959.8 | 75° | 3683.5 | 1343.1 | 103.7 | 69.1 | 44.4 | 29.6 | 19.8 | 4.9 | 0.0 | 0.0 |
| 1560.3 | 77.5° | 948.0 | 424.6 | 83.9 | 59.3 | 44.4 | 24.7 | 14.8 | 4.9 | 0.0 | 0.0 |
| 419.7 | 80° | 281.4 | 158.0 | 69.1 | 49.4 | 34.6 | 19.8 | 9.9 | 4.9 | 0.0 | 0.0 |
| 202.4 | 82.5° | 128.4 | 93.8 | 59.3 | 44.4 | 29.6 | 19.8 | 9.9 | 0.0 | 0.0 | 0.0 |
| 93.8 | 85° | 49.4 | 29.6 | 29.6 | 24.7 | 24.7 | 14.8 | 4.9 | 0.0 | 0.0 | 0.0 |
| 34.6 | 87.5° | 19.8 | 9.9 | 9.9 | 9.9 | 4.9 | 4.9 | 0.0 | 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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| <u>180°</u> |
|-------------|
| 3920.5 |
| 3915.6 |
| 3935.3 |
| 3876.1 |
| 3752.6 |
| 3179.9 |
| 2197.3 |
| 1293.7 |
| 1051.7 |
| 1002.4 |
| 923.3 |
| 795.0 |
| 646.8 |
| 493.8 |
| 380.2 |
| 296.3 |
| 237.0 |
| 197.5 |
| 148.1 |
| 113.6 |
| 79.0 |
| 64.2 |
| 49.4 |
| 39.5 |
| 29.6 |
| 19.8 |
| 4.9 |
| 0.0 |
| 0.0 |
| 0.0 |
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