

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: P574763

Luminaire Tested: **EPH-VN-03-730-U-T4FT**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574763
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-730-U-T4FT
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

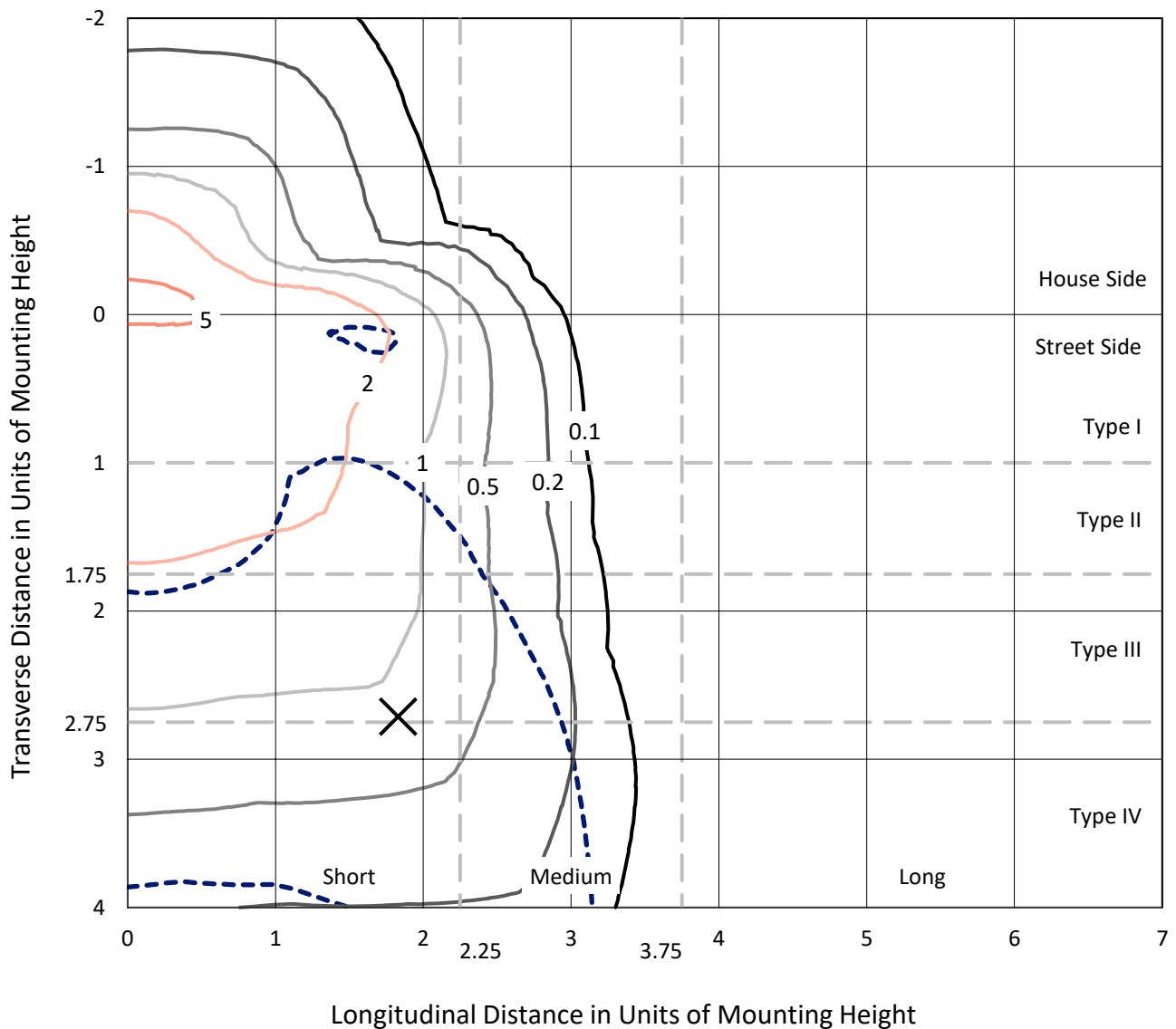
Lumens per Lamp: N/A
Luminaire Lumens: 25163.5 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 232.1
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

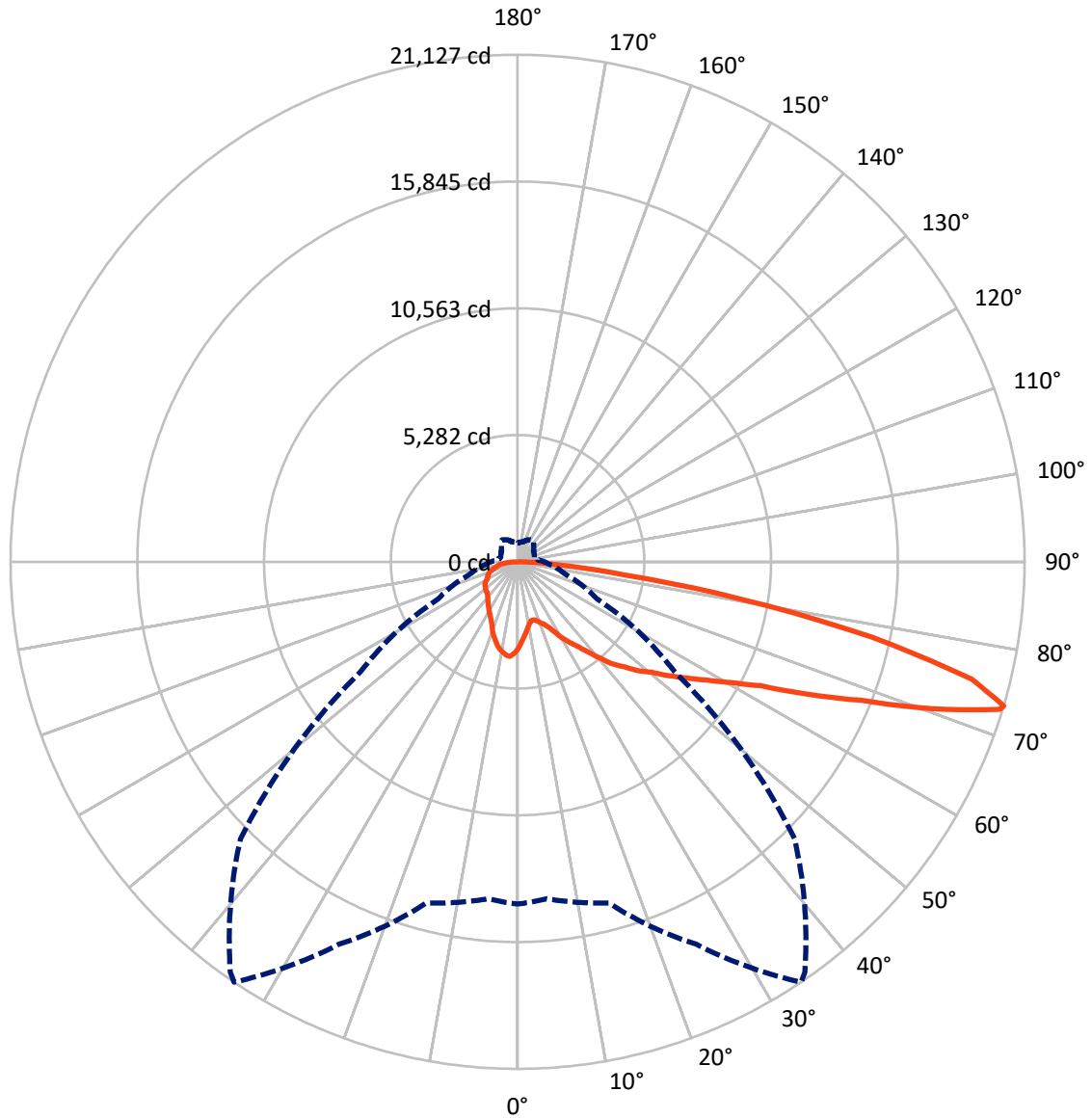
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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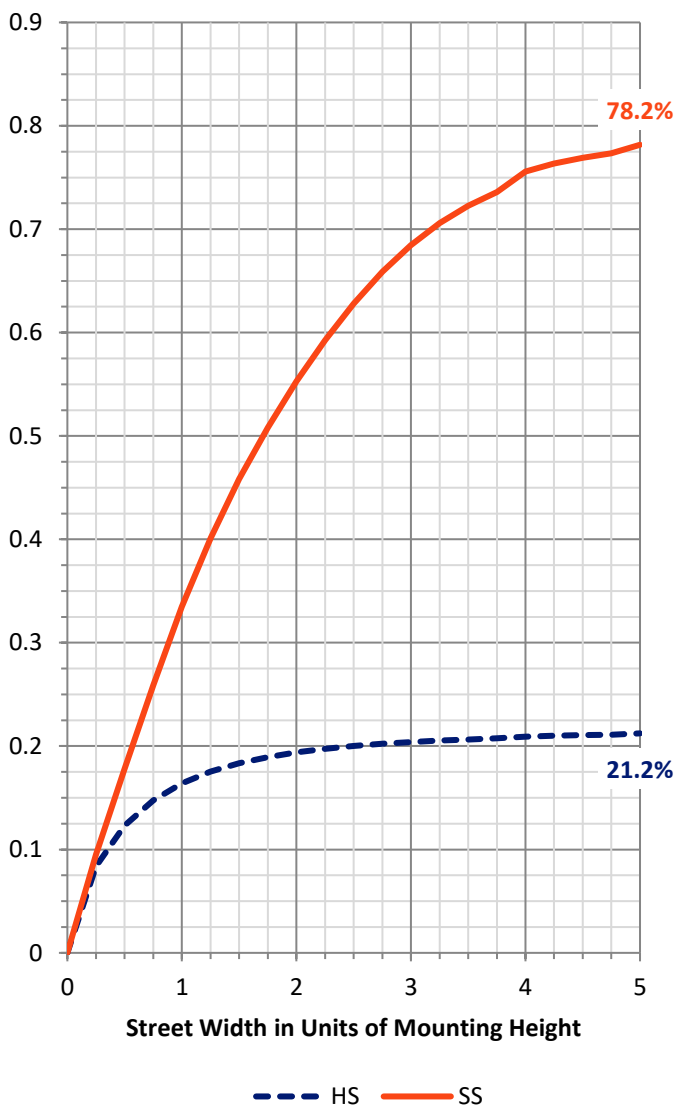
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5435.6 | 0.0 | 5435.6 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 19727.9 | 0.0 | 19727.9 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 25163.5 | 0.0 | 25163.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 333.0 | 1.3 |
| 10°-20° | 931.8 | 3.7 |
| 20°-30° | 1533.6 | 6.1 |
| 30°-40° | 2293.5 | 9.1 |
| 40°-50° | 3400.1 | 13.5 |
| 50°-60° | 4899.9 | 19.5 |
| 60°-70° | 6252.9 | 24.8 |
| 70°-80° | 4865.8 | 19.3 |
| 80°-90° | 652.8 | 2.6 |
| 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° | 25163.5 | 100.0 |
| 0°-180° | 25163.5 | 100.0 |

Coefficient of Utilization



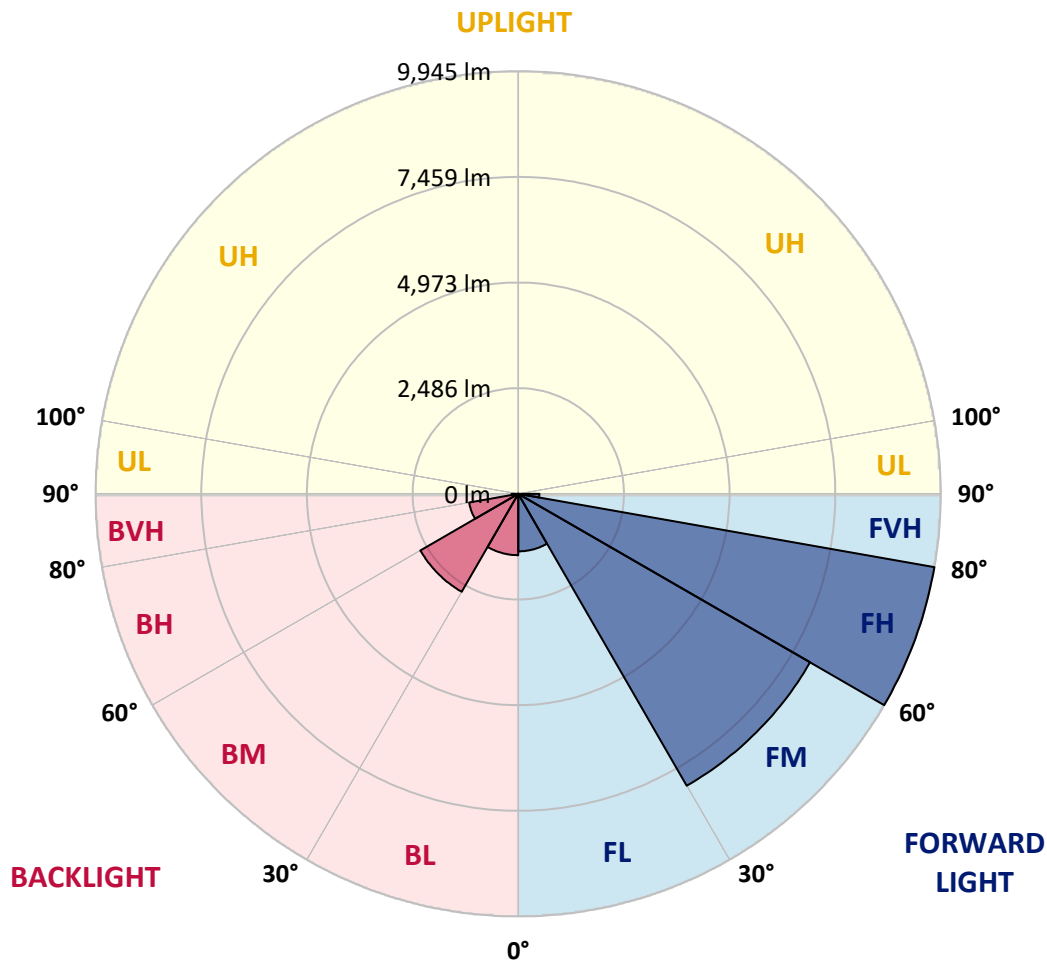
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1354.2 | 5.4 | | | |
| FM (30°-60°) | 7931.7 | 31.5 | | | |
| FH (60°-80°) | 9945.1 | 39.5 | | | G4/12000 |
| FVH (80°-90°) | 496.9 | 2.0 | | | G3/500 |
| BL (0°-30°) | 1444.2 | 5.7 | B3/2500 | | |
| BM (30°-60°) | 2661.8 | 10.6 | B3/5000 | | |
| BH (60°-80°) | 1173.7 | 4.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 155.9 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 3607.6 | 3607.6 | 3607.6 | 3607.6 | 3607.6 | 3607.6 | 3607.6 | 3607.6 | 3607.6 | 3607.6 |
| 2.5° | 3232.5 | 3243.1 | 3277.7 | 3285.7 | 3322.9 | 3301.6 | 3346.9 | 3426.7 | 3471.9 | 3538.4 |
| 5° | 2977.1 | 2931.8 | 2953.1 | 3035.6 | 3078.1 | 3088.8 | 3136.7 | 3272.4 | 3357.5 | 3455.9 |
| 7.5° | 2676.4 | 2668.4 | 2711.0 | 2764.2 | 2849.4 | 2857.3 | 2963.7 | 3083.5 | 3259.1 | 3477.2 |
| 10° | 2471.6 | 2506.2 | 2530.1 | 2586.0 | 2644.5 | 2644.5 | 2780.2 | 2987.7 | 3187.2 | 3397.4 |
| 12.5° | 2460.9 | 2439.6 | 2445.0 | 2474.2 | 2516.8 | 2570.0 | 2697.7 | 2883.9 | 3136.7 | 3381.4 |
| 15° | 2495.5 | 2503.5 | 2455.6 | 2492.8 | 2508.8 | 2527.4 | 2668.4 | 2878.6 | 3104.8 | 3437.3 |
| 17.5° | 2679.1 | 2633.9 | 2559.4 | 2524.8 | 2580.6 | 2580.6 | 2676.4 | 2841.4 | 3110.1 | 3466.6 |
| 20° | 2822.7 | 2822.7 | 2700.4 | 2663.1 | 2703.0 | 2695.0 | 2761.6 | 2883.9 | 3136.7 | 3525.1 |
| 22.5° | 3064.8 | 3099.4 | 2897.2 | 2820.1 | 2817.4 | 2838.7 | 2897.2 | 3001.0 | 3211.2 | 3607.6 |
| 25° | 3413.4 | 3421.3 | 3187.2 | 3107.4 | 3022.3 | 3056.9 | 3067.5 | 3171.3 | 3277.7 | 3703.4 |
| 27.5° | 3801.8 | 3796.5 | 3581.0 | 3381.4 | 3325.6 | 3333.6 | 3275.0 | 3344.2 | 3376.1 | 3732.6 |
| 30° | 4232.8 | 4184.9 | 4022.6 | 3740.6 | 3695.4 | 3644.8 | 3517.1 | 3514.5 | 3581.0 | 3897.6 |
| 32.5° | 4514.8 | 4453.6 | 4341.9 | 4139.7 | 4014.6 | 4020.0 | 3817.8 | 3815.1 | 3756.6 | 4078.5 |
| 35° | 4791.5 | 4698.4 | 4669.1 | 4461.6 | 4336.5 | 4349.8 | 4187.6 | 4166.3 | 4059.9 | 4352.5 |
| 37.5° | 5124.0 | 5041.6 | 5086.8 | 4929.8 | 4775.5 | 4711.7 | 4637.2 | 4610.6 | 4472.2 | 4738.3 |
| 40° | 5491.2 | 5464.6 | 5435.3 | 5358.2 | 5265.0 | 5270.4 | 5190.6 | 5163.9 | 4959.1 | 5203.9 |
| 42.5° | 5986.0 | 5884.9 | 5733.3 | 5783.8 | 5831.7 | 5882.3 | 5855.7 | 5786.5 | 5573.7 | 5677.4 |
| 45° | 6446.3 | 6313.3 | 6033.9 | 6049.9 | 6246.8 | 6286.7 | 6608.6 | 6600.6 | 6172.3 | 6278.7 |
| 47.5° | 6757.6 | 6696.4 | 6528.8 | 6510.1 | 6792.1 | 6789.5 | 7369.5 | 7369.5 | 6802.8 | 6877.3 |
| 50° | 7220.5 | 7060.9 | 6989.0 | 7082.1 | 7225.8 | 7324.2 | 8146.3 | 8196.9 | 7422.7 | 7502.5 |
| 52.5° | 7763.2 | 7563.7 | 7382.8 | 7622.2 | 7877.6 | 7941.5 | 8915.2 | 8893.9 | 7898.9 | 8228.8 |
| 55° | 8212.8 | 8111.7 | 7986.7 | 8125.0 | 8542.7 | 8622.5 | 9686.7 | 9489.9 | 8375.1 | 8830.1 |
| 57.5° | 8736.9 | 8798.1 | 8824.7 | 8790.2 | 9287.7 | 9412.7 | 10567.3 | 10003.3 | 8784.8 | 9234.4 |
| 60° | 9527.1 | 9564.3 | 9598.9 | 9681.4 | 10208.2 | 10383.8 | 11264.4 | 10647.2 | 9042.9 | 9468.6 |
| 62.5° | 10729.6 | 10586.0 | 10663.1 | 10947.8 | 11370.8 | 11570.3 | 12291.3 | 11099.4 | 9239.8 | 9609.6 |
| 65° | 12105.1 | 11910.9 | 11831.1 | 12198.2 | 13294.3 | 13134.7 | 13573.7 | 11437.3 | 8955.1 | 9082.8 |
| 67.5° | 13499.2 | 13520.4 | 13315.6 | 14052.5 | 15396.1 | 15396.1 | 14765.5 | 11599.6 | 8183.6 | 7361.5 |
| 70° | 14605.9 | 14672.4 | 14784.2 | 16212.8 | 18341.2 | 18663.1 | 16242.1 | 10934.5 | 6611.2 | 4900.6 |
| 72.5° | 14590.0 | 14390.4 | 14962.4 | 17593.6 | 21017.6 | 20748.9 | 16550.7 | 8646.5 | 4126.4 | 2399.7 |
| 73° | 14262.7 | 14095.1 | 14720.3 | 17580.3 | 21126.7 | 20874.0 | 16324.6 | 7970.7 | 3639.5 | 2080.5 |
| 75° | 11647.5 | 11344.2 | 12408.4 | 15922.8 | 19546.4 | 19740.6 | 13869.0 | 5198.5 | 1995.3 | 1282.3 |
| 77.5° | 5310.3 | 5443.3 | 6829.4 | 10681.7 | 15063.5 | 15292.3 | 9117.4 | 2248.1 | 1093.4 | 899.2 |
| 80° | 1705.4 | 1790.5 | 2657.8 | 5310.3 | 9442.0 | 9854.3 | 4214.2 | 1021.6 | 779.5 | 689.1 |
| 82.5° | 651.8 | 649.2 | 1114.7 | 2208.2 | 4474.9 | 4738.3 | 1540.4 | 622.5 | 580.0 | 508.1 |
| 85° | 228.8 | 239.4 | 420.4 | 872.6 | 1761.2 | 1843.7 | 534.8 | 345.9 | 401.7 | 340.5 |
| 87.5° | 79.8 | 82.5 | 149.0 | 316.6 | 606.6 | 641.2 | 149.0 | 138.3 | 199.5 | 196.9 |
| 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-03-730-U-T4FT

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3607.6 | 0° | 3607.6 | 3607.6 | 3607.6 | 3607.6 | 3607.6 | 3607.6 | 3607.6 | 3607.6 | 3607.6 | 3607.6 |
| 3618.2 | 2.5° | 3644.8 | 3668.8 | 3676.8 | 3772.5 | 3772.5 | 3772.5 | 3809.8 | 3809.8 | 3799.1 | 3772.5 |
| 3604.9 | 5° | 3660.8 | 3703.4 | 3785.8 | 3868.3 | 3889.6 | 3908.2 | 3958.8 | 3916.2 | 3932.2 | 3905.6 |
| 3652.8 | 7.5° | 3706.0 | 3764.5 | 3918.9 | 3969.4 | 3934.8 | 3974.7 | 3921.5 | 3892.2 | 3863.0 | 3873.6 |
| 3663.5 | 10° | 3783.2 | 3857.7 | 3929.5 | 4022.6 | 3956.1 | 3916.2 | 3807.1 | 3780.5 | 3687.4 | 3655.5 |
| 3708.7 | 12.5° | 3878.9 | 3969.4 | 4091.8 | 4057.2 | 3929.5 | 3815.1 | 3698.0 | 3586.3 | 3530.4 | 3450.6 |
| 3785.8 | 15° | 3974.7 | 4078.5 | 4097.1 | 4038.6 | 3878.9 | 3735.3 | 3522.4 | 3365.5 | 3309.6 | 3237.8 |
| 3897.6 | 17.5° | 4078.5 | 4176.9 | 4145.0 | 3993.3 | 3777.9 | 3559.7 | 3317.6 | 3163.3 | 3046.2 | 3001.0 |
| 4022.6 | 20° | 4232.8 | 4280.7 | 4230.1 | 3918.9 | 3655.5 | 3368.1 | 3134.0 | 2958.4 | 2841.4 | 2822.7 |
| 4142.3 | 22.5° | 4352.5 | 4429.7 | 4203.5 | 3809.8 | 3477.2 | 3118.1 | 2849.4 | 2782.8 | 2748.3 | 2719.0 |
| 4278.0 | 25° | 4506.8 | 4504.2 | 4155.6 | 3708.7 | 3171.3 | 2820.1 | 2657.8 | 2652.5 | 2636.5 | 2625.9 |
| 4472.2 | 27.5° | 4653.1 | 4592.0 | 4099.8 | 3458.6 | 2854.7 | 2593.9 | 2506.2 | 2564.7 | 2588.6 | 2572.7 |
| 4740.9 | 30° | 4884.6 | 4783.5 | 4020.0 | 3192.5 | 2575.3 | 2365.1 | 2381.1 | 2460.9 | 2500.8 | 2524.8 |
| 4975.1 | 32.5° | 5129.4 | 4975.1 | 3855.0 | 2915.9 | 2327.9 | 2221.5 | 2258.7 | 2341.2 | 2389.1 | 2415.7 |
| 5360.8 | 35° | 5483.2 | 5124.0 | 3687.4 | 2554.0 | 2149.6 | 2133.7 | 2155.0 | 2200.2 | 2269.4 | 2288.0 |
| 5887.6 | 37.5° | 5919.5 | 5350.2 | 3461.3 | 2264.0 | 2011.3 | 2029.9 | 2051.2 | 2067.2 | 2069.8 | 2104.4 |
| 6393.1 | 40° | 6355.8 | 5541.7 | 3131.4 | 1987.4 | 1867.6 | 1968.7 | 1958.1 | 1928.8 | 1904.9 | 1873.0 |
| 6957.1 | 42.5° | 6738.9 | 5709.3 | 2764.2 | 1753.2 | 1739.9 | 1904.9 | 1870.3 | 1795.8 | 1739.9 | 1716.0 |
| 7598.3 | 45° | 7169.9 | 5946.1 | 2394.4 | 1606.9 | 1641.5 | 1827.7 | 1817.1 | 1702.7 | 1630.9 | 1545.7 |
| 8287.3 | 47.5° | 7728.6 | 6193.5 | 2040.6 | 1455.3 | 1548.4 | 1798.5 | 1803.8 | 1657.5 | 1553.7 | 1439.3 |
| 9189.2 | 50° | 8444.3 | 6550.0 | 1771.9 | 1391.4 | 1492.5 | 1755.9 | 1763.9 | 1596.3 | 1460.6 | 1343.5 |
| 10245.4 | 52.5° | 9130.7 | 6914.5 | 1548.4 | 1293.0 | 1455.3 | 1705.4 | 1724.0 | 1540.4 | 1383.4 | 1237.1 |
| 10753.6 | 55° | 9476.6 | 6781.5 | 1356.8 | 1221.2 | 1370.1 | 1622.9 | 1692.1 | 1500.5 | 1266.4 | 1165.3 |
| 11051.5 | 57.5° | 9553.7 | 6454.3 | 1205.2 | 1146.7 | 1298.3 | 1535.1 | 1638.8 | 1380.8 | 1213.2 | 1128.0 |
| 11075.5 | 60° | 9301.0 | 5882.3 | 1085.5 | 1066.8 | 1207.8 | 1444.6 | 1516.5 | 1316.9 | 1160.0 | 1090.8 |
| 10293.3 | 62.5° | 8678.4 | 5289.0 | 1003.0 | 1029.6 | 1130.7 | 1346.2 | 1439.3 | 1271.7 | 1109.4 | 1061.5 |
| 8729.0 | 65° | 7116.7 | 4349.8 | 936.5 | 957.8 | 1050.9 | 1250.4 | 1391.4 | 1221.2 | 1064.2 | 1019.0 |
| 6121.7 | 67.5° | 4929.8 | 2998.3 | 883.3 | 923.2 | 987.0 | 1181.2 | 1343.5 | 1165.3 | 1005.7 | 989.7 |
| 3346.9 | 70° | 2524.8 | 1598.9 | 814.1 | 846.0 | 917.9 | 1093.4 | 1258.4 | 1106.8 | 944.5 | 941.8 |
| 1535.1 | 72.5° | 1279.7 | 936.5 | 734.3 | 782.2 | 832.7 | 979.0 | 1152.0 | 1029.6 | 867.3 | 838.0 |
| 1364.8 | 73° | 1106.8 | 867.3 | 721.0 | 763.6 | 811.4 | 947.1 | 1120.1 | 1011.0 | 856.7 | 814.1 |
| 960.4 | 75° | 806.1 | 683.7 | 646.5 | 689.1 | 726.3 | 854.0 | 1013.6 | 925.8 | 787.5 | 742.3 |
| 707.7 | 77.5° | 603.9 | 526.8 | 537.4 | 585.3 | 617.2 | 736.9 | 901.9 | 838.0 | 713.0 | 651.8 |
| 529.4 | 80° | 444.3 | 401.7 | 444.3 | 489.5 | 513.5 | 649.2 | 822.1 | 726.3 | 601.3 | 532.1 |
| 375.1 | 82.5° | 316.6 | 292.7 | 343.2 | 372.5 | 383.1 | 537.4 | 739.6 | 580.0 | 454.9 | 364.5 |
| 215.5 | 85° | 180.9 | 178.3 | 231.5 | 228.8 | 236.8 | 313.9 | 486.9 | 385.8 | 292.7 | 223.5 |
| 109.1 | 87.5° | 79.8 | 87.8 | 117.1 | 93.1 | 98.4 | 149.0 | 207.5 | 143.7 | 119.7 | 66.5 |
| 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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| 180° |
|--------|
| 3607.6 |
| 3836.4 |
| 3929.5 |
| 3836.4 |
| 3684.7 |
| 3471.9 |
| 3275.0 |
| 3001.0 |
| 2793.5 |
| 2681.7 |
| 2676.4 |
| 2593.9 |
| 2492.8 |
| 2445.0 |
| 2296.0 |
| 2091.1 |
| 1865.0 |
| 1676.1 |
| 1535.1 |
| 1423.3 |
| 1332.9 |
| 1245.1 |
| 1162.6 |
| 1117.4 |
| 1074.8 |
| 1026.9 |
| 1016.3 |
| 968.4 |
| 915.2 |
| 795.5 |
| 774.2 |
| 705.0 |
| 635.8 |
| 518.8 |
| 335.2 |
| 218.2 |
| 50.5 |
| 0.0 |

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