

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: P575067

Luminaire Tested: **EPH-VN-03-760-U-SL4**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575067
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-03-760-U-SL4
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

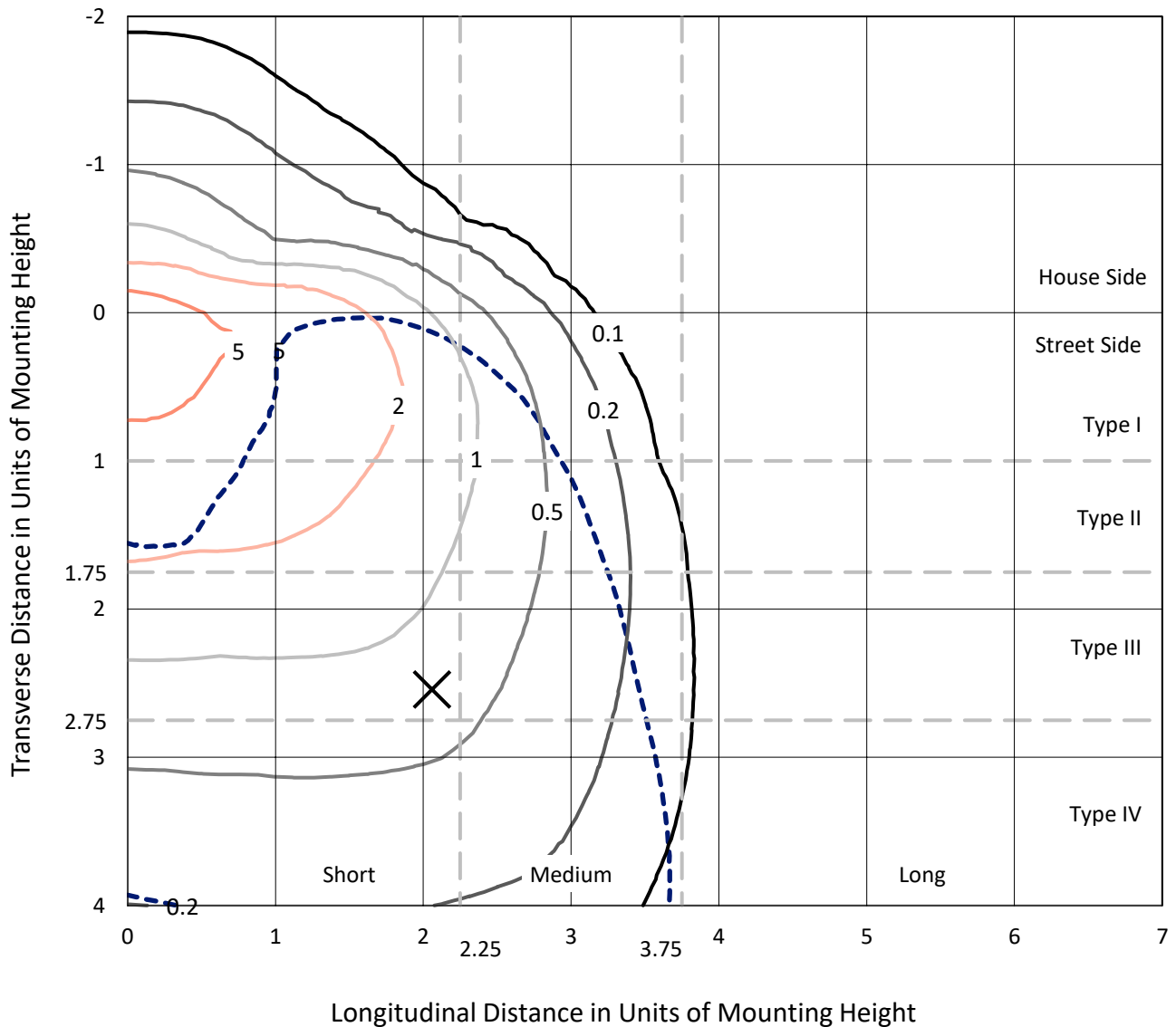
Lumens per Lamp: N/A
Luminaire Lumens: 26688.3 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

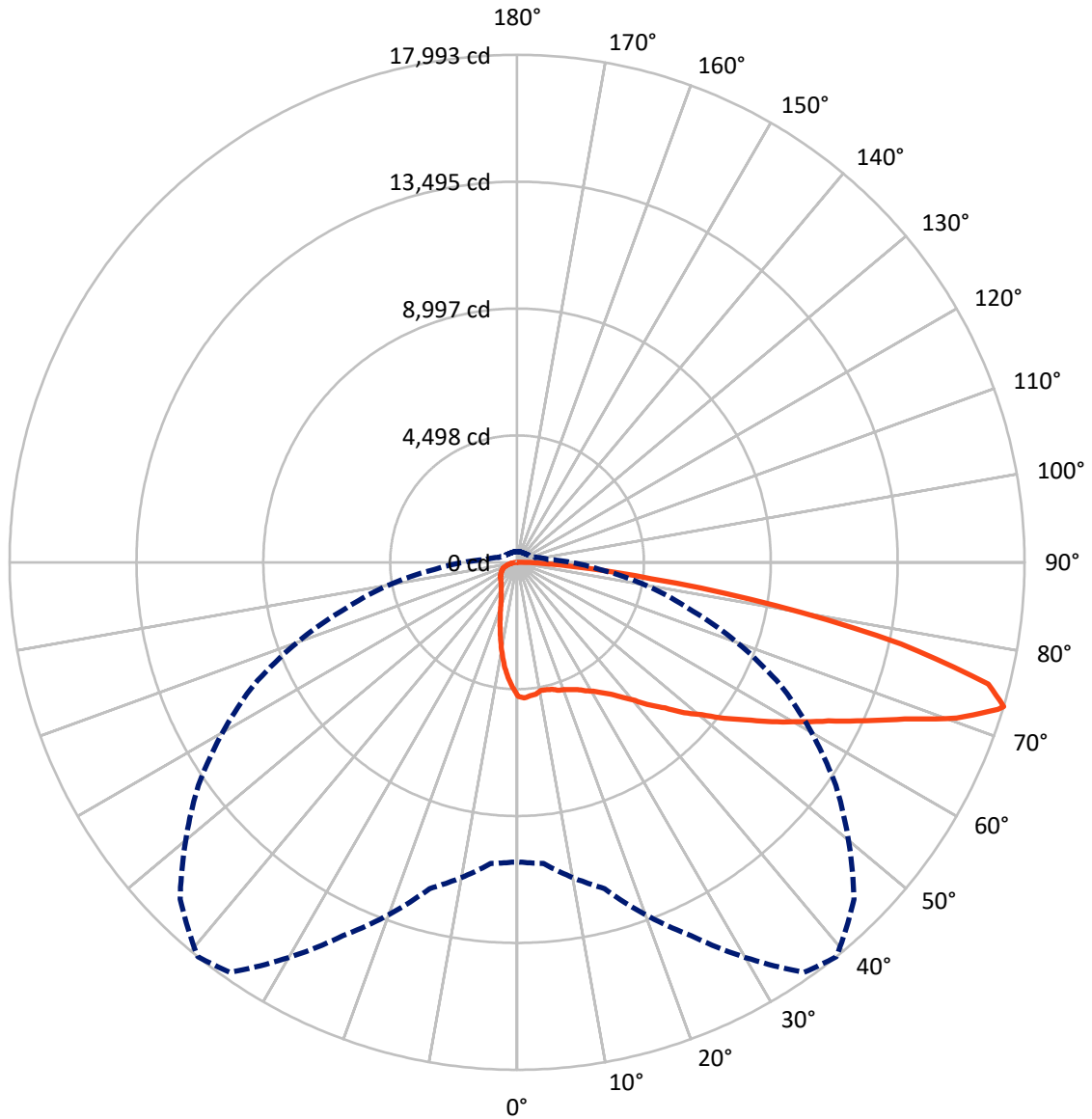
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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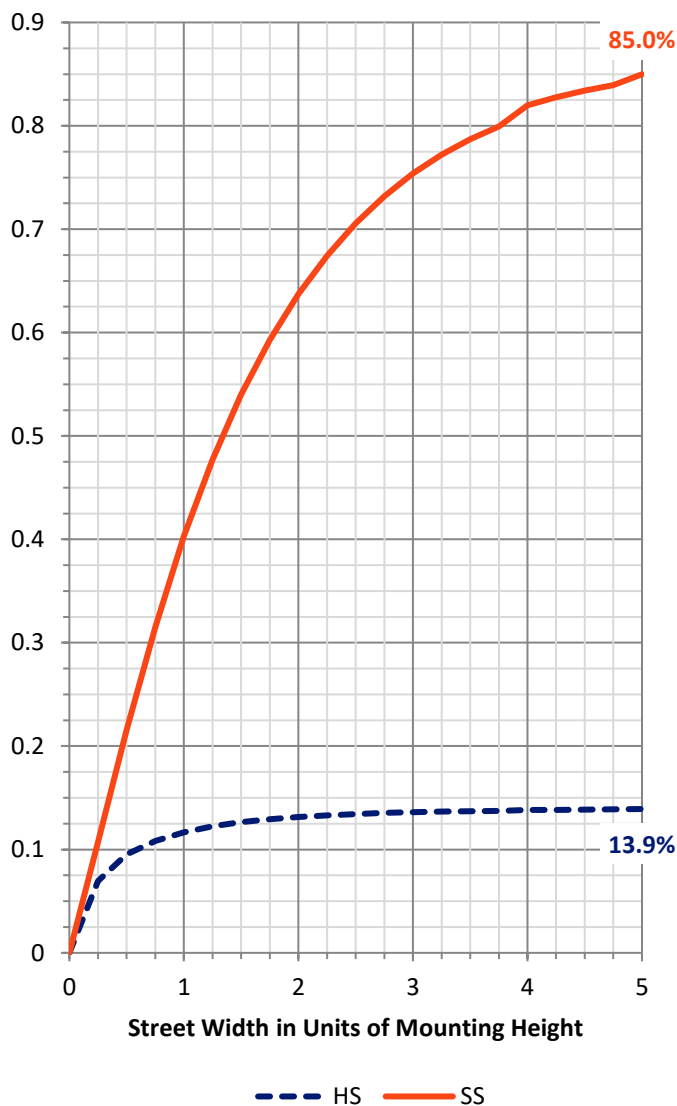
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3751.6 | 0.0 | 3751.6 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 22936.6 | 0.0 | 22936.6 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 26688.3 | 0.0 | 26688.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 412.4 | 1.5 |
| 10°-20° | 1048.4 | 3.9 |
| 20°-30° | 1602.0 | 6.0 |
| 30°-40° | 2335.8 | 8.8 |
| 40°-50° | 3529.6 | 13.2 |
| 50°-60° | 5111.1 | 19.2 |
| 60°-70° | 6493.9 | 24.3 |
| 70°-80° | 5264.3 | 19.7 |
| 80°-90° | 890.7 | 3.3 |
| 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° | 26688.3 | 100.0 |
| 0°-180° | 26688.3 | 100.0 |

Coefficient of Utilization



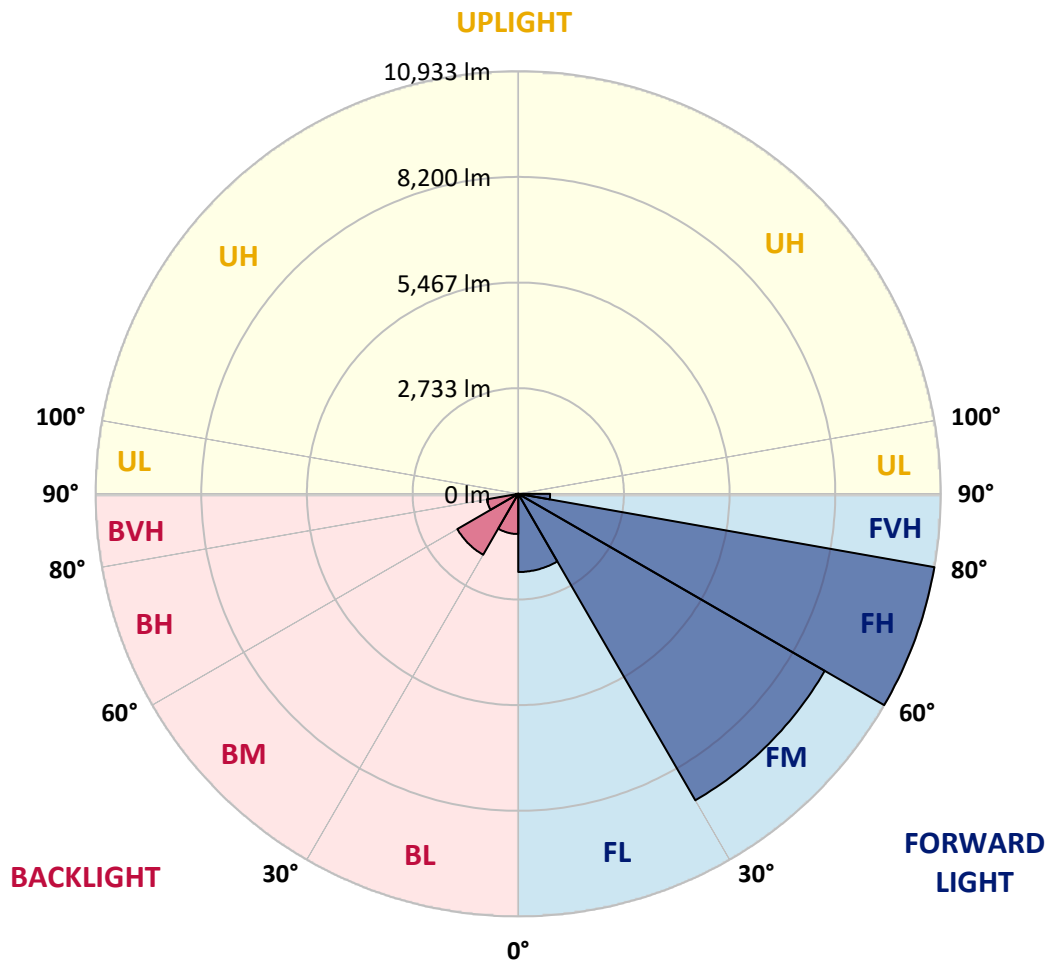
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2022.4 | 7.6 | | | |
| FM (30°-60°) | 9155.8 | 34.3 | | | |
| FH (60°-80°) | 10933.1 | 41.0 | | | G4/12000 |
| FVH (80°-90°) | 825.4 | 3.1 | | | G5 |
| BL (0°-30°) | 1040.4 | 3.9 | B3/2500 | | |
| BM (30°-60°) | 1820.8 | 6.8 | B2/2500 | | |
| BH (60°-80°) | 825.1 | 3.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 65.3 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4750.7 | 4750.7 | 4750.7 | 4750.7 | 4750.7 | 4750.7 | 4750.7 | 4750.7 | 4750.7 | 4750.7 |
| 2.5° | 4864.1 | 4813.4 | 4822.3 | 4804.4 | 4822.3 | 4816.4 | 4807.4 | 4762.6 | 4807.4 | 4762.6 |
| 5° | 4798.4 | 4798.4 | 4828.3 | 4783.5 | 4789.5 | 4759.6 | 4789.5 | 4756.6 | 4726.8 | 4652.1 |
| 7.5° | 4777.5 | 4774.6 | 4777.5 | 4714.8 | 4744.7 | 4726.8 | 4696.9 | 4661.1 | 4601.4 | 4553.6 |
| 10° | 4634.2 | 4664.1 | 4631.2 | 4649.1 | 4673.0 | 4619.3 | 4616.3 | 4607.3 | 4580.5 | 4517.8 |
| 12.5° | 4556.6 | 4607.3 | 4625.3 | 4610.3 | 4631.2 | 4637.2 | 4619.3 | 4607.3 | 4574.5 | 4532.7 |
| 15° | 4589.4 | 4529.7 | 4580.5 | 4679.0 | 4658.1 | 4673.0 | 4676.0 | 4664.1 | 4649.1 | 4571.5 |
| 17.5° | 4598.4 | 4562.6 | 4670.1 | 4691.0 | 4717.8 | 4771.6 | 4735.7 | 4732.8 | 4676.0 | 4622.3 |
| 20° | 4619.3 | 4604.4 | 4691.0 | 4801.4 | 4804.4 | 4813.4 | 4831.3 | 4786.5 | 4756.6 | 4664.1 |
| 22.5° | 4696.9 | 4747.7 | 4828.3 | 4876.1 | 4903.0 | 4908.9 | 4908.9 | 4819.3 | 4786.5 | 4711.9 |
| 25° | 4929.8 | 4876.1 | 4989.5 | 5046.3 | 5007.5 | 4998.5 | 4977.6 | 4897.0 | 4861.2 | 4795.5 |
| 27.5° | 5100.0 | 5097.0 | 5162.7 | 5240.4 | 5135.9 | 5156.8 | 5082.1 | 5058.2 | 4977.6 | 4941.8 |
| 30° | 5332.9 | 5398.6 | 5395.6 | 5419.5 | 5282.2 | 5306.1 | 5210.5 | 5165.7 | 5120.9 | 5141.8 |
| 32.5° | 5631.5 | 5607.6 | 5646.5 | 5628.5 | 5491.2 | 5512.1 | 5398.6 | 5329.9 | 5344.9 | 5407.6 |
| 35° | 5822.6 | 5798.7 | 5813.7 | 5813.7 | 5771.9 | 5748.0 | 5700.2 | 5610.6 | 5682.3 | 5798.7 |
| 37.5° | 6028.7 | 6058.5 | 6145.1 | 6127.2 | 6073.5 | 6073.5 | 6067.5 | 6004.8 | 6097.3 | 6384.0 |
| 40° | 6210.8 | 6291.4 | 6345.2 | 6381.0 | 6443.7 | 6443.7 | 6494.5 | 6458.6 | 6625.9 | 7085.7 |
| 42.5° | 6401.9 | 6404.9 | 6697.5 | 6724.4 | 6864.7 | 6924.5 | 6963.3 | 6993.1 | 7306.7 | 7820.2 |
| 45° | 6646.8 | 6661.7 | 6918.5 | 7124.5 | 7342.5 | 7363.4 | 7509.7 | 7608.2 | 7993.4 | 8623.5 |
| 47.5° | 6969.2 | 6951.3 | 7226.0 | 7554.5 | 7826.2 | 7969.5 | 8145.7 | 8253.2 | 8728.0 | 9495.4 |
| 50° | 7393.3 | 7339.5 | 7497.8 | 8014.3 | 8333.8 | 8492.1 | 8805.6 | 8984.8 | 9540.2 | 10328.5 |
| 52.5° | 7909.8 | 7820.2 | 7945.7 | 8510.0 | 8868.3 | 9187.8 | 9486.4 | 9686.5 | 10265.8 | 10973.4 |
| 55° | 8456.3 | 8271.1 | 8307.0 | 9035.5 | 9552.1 | 9853.7 | 10262.8 | 10471.8 | 11063.0 | 11552.7 |
| 57.5° | 8996.7 | 8880.3 | 8808.6 | 9540.2 | 10367.3 | 10656.9 | 11033.1 | 11304.9 | 11806.5 | 12066.3 |
| 60° | 9450.6 | 9420.7 | 9304.3 | 10322.5 | 11230.2 | 11478.1 | 11872.2 | 12039.4 | 12418.6 | 12541.1 |
| 62.5° | 9823.8 | 9722.3 | 9907.4 | 10952.5 | 12108.1 | 12388.8 | 12821.7 | 12836.7 | 13105.4 | 12836.7 |
| 65° | 10116.5 | 10122.4 | 10418.0 | 11713.9 | 13123.3 | 13538.4 | 13887.7 | 13848.9 | 13675.7 | 12660.5 |
| 67.5° | 10382.2 | 10495.7 | 10928.6 | 12550.0 | 14428.2 | 14819.3 | 15207.5 | 14693.9 | 13831.0 | 11836.4 |
| 70° | 10591.2 | 10704.7 | 11618.4 | 13568.2 | 15966.0 | 16539.3 | 16625.9 | 15028.4 | 13117.3 | 10026.9 |
| 72.5° | 10567.3 | 10773.4 | 12009.6 | 14380.4 | 17330.5 | 17826.2 | 17127.5 | 14087.8 | 10928.6 | 6990.1 |
| 73° | 10618.1 | 10719.6 | 11976.7 | 14607.3 | 17745.6 | 17993.4 | 16894.6 | 13792.2 | 10307.6 | 6270.5 |
| 75° | 9638.7 | 9982.1 | 11382.5 | 14237.1 | 17300.7 | 17255.9 | 15556.9 | 11493.0 | 7327.6 | 3293.5 |
| 77.5° | 7130.5 | 7348.5 | 8969.8 | 11708.0 | 14201.3 | 13914.6 | 11734.8 | 7345.5 | 3478.7 | 1221.3 |
| 80° | 3484.6 | 3654.8 | 4753.7 | 6760.2 | 9286.4 | 9310.2 | 7282.8 | 3822.0 | 1490.0 | 689.8 |
| 82.5° | 1740.8 | 1842.3 | 2284.3 | 2971.0 | 4568.5 | 4786.5 | 3693.6 | 2173.8 | 922.7 | 391.2 |
| 85° | 1137.7 | 1209.3 | 1406.4 | 1454.2 | 1937.9 | 2045.4 | 1719.9 | 1696.0 | 600.2 | 212.0 |
| 87.5° | 755.4 | 767.4 | 862.9 | 734.5 | 776.4 | 746.5 | 830.1 | 1069.0 | 176.2 | 89.6 |
| 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-03-760-U-SL4

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4750.7 | 0° | 4750.7 | 4750.7 | 4750.7 | 4750.7 | 4750.7 | 4750.7 | 4750.7 | 4750.7 | 4750.7 | 4750.7 |
| 4750.7 | 2.5° | 4735.7 | 4693.9 | 4649.1 | 4586.4 | 4541.7 | 4473.0 | 4410.3 | 4383.4 | 4377.4 | 4380.4 |
| 4631.2 | 5° | 4613.3 | 4553.6 | 4464.0 | 4335.6 | 4261.0 | 4147.5 | 4052.0 | 4001.2 | 3947.4 | 3956.4 |
| 4484.9 | 7.5° | 4443.1 | 4377.4 | 4240.1 | 4090.8 | 3905.6 | 3744.4 | 3654.8 | 3529.4 | 3457.7 | 3404.0 |
| 4476.0 | 10° | 4389.4 | 4275.9 | 4069.9 | 3863.8 | 3577.2 | 3365.2 | 3159.2 | 3015.8 | 2917.3 | 2821.7 |
| 4413.3 | 12.5° | 4362.5 | 4249.0 | 3962.4 | 3657.8 | 3287.5 | 2965.1 | 2675.4 | 2499.3 | 2358.9 | 2275.3 |
| 4493.9 | 15° | 4338.6 | 4198.3 | 3860.9 | 3430.9 | 3015.8 | 2591.8 | 2266.3 | 2033.4 | 1899.1 | 1818.5 |
| 4508.8 | 17.5° | 4371.5 | 4171.4 | 3711.6 | 3209.9 | 2717.2 | 2263.4 | 1902.1 | 1660.2 | 1522.8 | 1472.1 |
| 4490.9 | 20° | 4338.6 | 4141.5 | 3565.2 | 2989.0 | 2418.6 | 1949.8 | 1603.5 | 1403.4 | 1307.9 | 1266.0 |
| 4574.5 | 22.5° | 4350.6 | 4069.9 | 3413.0 | 2744.1 | 2140.9 | 1687.1 | 1403.4 | 1251.1 | 1176.5 | 1155.6 |
| 4613.3 | 25° | 4407.3 | 4028.1 | 3260.7 | 2475.4 | 1866.2 | 1493.0 | 1275.0 | 1158.6 | 1104.8 | 1083.9 |
| 4682.0 | 27.5° | 4449.1 | 4063.9 | 3123.3 | 2221.6 | 1633.3 | 1319.8 | 1167.5 | 1089.9 | 1054.0 | 1039.1 |
| 4885.0 | 30° | 4553.6 | 4084.8 | 2989.0 | 1994.6 | 1442.2 | 1206.3 | 1092.9 | 1030.2 | 1006.3 | 997.3 |
| 5162.7 | 32.5° | 4708.9 | 4123.6 | 2833.7 | 1785.6 | 1301.9 | 1098.8 | 1033.1 | 979.4 | 973.4 | 964.5 |
| 5473.3 | 35° | 4962.7 | 4258.0 | 2660.5 | 1606.4 | 1167.5 | 1027.2 | 970.4 | 934.6 | 934.6 | 934.6 |
| 5968.9 | 37.5° | 5327.0 | 4446.1 | 2505.2 | 1436.2 | 1080.9 | 964.5 | 916.7 | 904.7 | 898.8 | 907.7 |
| 6575.1 | 40° | 5795.8 | 4673.0 | 2379.8 | 1301.9 | 1006.3 | 922.7 | 880.9 | 874.9 | 871.9 | 868.9 |
| 7223.1 | 42.5° | 6309.3 | 4962.7 | 2272.3 | 1197.4 | 952.5 | 877.9 | 848.0 | 842.0 | 830.1 | 836.1 |
| 7927.7 | 45° | 6819.9 | 5321.0 | 2176.8 | 1113.8 | 916.7 | 854.0 | 812.2 | 809.2 | 803.2 | 800.2 |
| 8698.1 | 47.5° | 7387.3 | 5673.3 | 2146.9 | 1063.0 | 889.8 | 818.2 | 788.3 | 785.3 | 767.4 | 764.4 |
| 9226.6 | 50° | 7829.2 | 5933.1 | 2179.8 | 1039.1 | 851.0 | 791.3 | 770.4 | 755.4 | 740.5 | 725.6 |
| 9617.8 | 52.5° | 8133.8 | 6112.3 | 2203.6 | 1021.2 | 830.1 | 755.4 | 728.6 | 722.6 | 707.7 | 692.7 |
| 10009.0 | 55° | 8408.5 | 6219.8 | 2209.6 | 1024.2 | 809.2 | 713.6 | 695.7 | 692.7 | 683.8 | 659.9 |
| 10340.4 | 57.5° | 8501.0 | 6175.0 | 2090.2 | 997.3 | 797.3 | 686.8 | 662.9 | 668.9 | 656.9 | 636.0 |
| 10346.4 | 60° | 8492.1 | 5864.4 | 1818.5 | 961.5 | 770.4 | 656.9 | 627.1 | 645.0 | 645.0 | 621.1 |
| 10041.8 | 62.5° | 7975.5 | 5147.8 | 1487.0 | 892.8 | 740.5 | 627.1 | 594.2 | 621.1 | 630.0 | 615.1 |
| 9322.2 | 65° | 6903.6 | 4192.3 | 1242.2 | 824.1 | 695.7 | 594.2 | 561.4 | 591.2 | 606.2 | 600.2 |
| 7915.8 | 67.5° | 5712.2 | 3206.9 | 1033.1 | 734.5 | 639.0 | 549.4 | 522.5 | 543.4 | 552.4 | 555.4 |
| 5971.9 | 70° | 4037.0 | 2135.0 | 862.9 | 636.0 | 561.4 | 501.6 | 471.8 | 474.8 | 471.8 | 480.7 |
| 3484.6 | 72.5° | 2194.7 | 1230.2 | 701.7 | 540.5 | 483.7 | 436.0 | 415.0 | 400.1 | 400.1 | 397.1 |
| 2947.1 | 73° | 1878.2 | 1104.8 | 668.9 | 525.5 | 462.8 | 424.0 | 400.1 | 388.2 | 388.2 | 385.2 |
| 1427.3 | 75° | 1054.0 | 809.2 | 573.3 | 450.9 | 400.1 | 370.3 | 352.3 | 334.4 | 331.4 | 331.4 |
| 770.4 | 77.5° | 692.7 | 630.0 | 456.9 | 361.3 | 322.5 | 295.6 | 289.6 | 271.7 | 271.7 | 271.7 |
| 525.5 | 80° | 519.6 | 495.7 | 352.3 | 274.7 | 247.8 | 226.9 | 221.0 | 209.0 | 206.0 | 194.1 |
| 298.6 | 82.5° | 346.4 | 391.2 | 256.8 | 194.1 | 167.2 | 155.3 | 155.3 | 152.3 | 143.3 | 128.4 |
| 241.9 | 85° | 274.7 | 319.5 | 185.1 | 119.4 | 98.5 | 83.6 | 86.6 | 83.6 | 80.6 | 65.7 |
| 65.7 | 87.5° | 50.8 | 128.4 | 53.7 | 32.8 | 23.9 | 14.9 | 14.9 | 9.0 | 6.0 | 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 |

(END O



| <u>180°</u> |
|-------------|
| 4750.7 |
| 4350.6 |
| 3932.5 |
| 3433.9 |
| 2863.5 |
| 2308.2 |
| 1827.4 |
| 1460.1 |
| 1257.1 |
| 1161.5 |
| 1089.9 |
| 1036.1 |
| 994.3 |
| 967.5 |
| 943.6 |
| 913.7 |
| 874.9 |
| 845.0 |
| 815.2 |
| 776.4 |
| 725.6 |
| 686.8 |
| 653.9 |
| 633.0 |
| 618.1 |
| 612.1 |
| 597.2 |
| 558.4 |
| 480.7 |
| 397.1 |
| 382.2 |
| 331.4 |
| 268.7 |
| 197.1 |
| 128.4 |
| 62.7 |
| 0.0 |
| 0.0 |

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