

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P687831 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-VN-08-E-PRO-3000K-LAM**

Issue Date: 5/17/2023



Test Information

Test Method: LM-79-08
Report Number: P687831 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-765-34)
Test Lab: INNOVATION CENTER
Issue Date: 5/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-E-PRO-3000K-LAM
Description: EPHESUS LUMAVISION CCT TUNING FLOOD
3000K AND LAMBERTIAN OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40013.7 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')

NEMA Type: 7H x 7V
Max Intensity: 12992.3 candela
Max Intensity Angle: -22.5°H x 0°V

Beam Angle (50%): 117.5°H x 111.6°V
Beam Lumens: 32747.3 lumens
Beam Efficiency: 81.8%

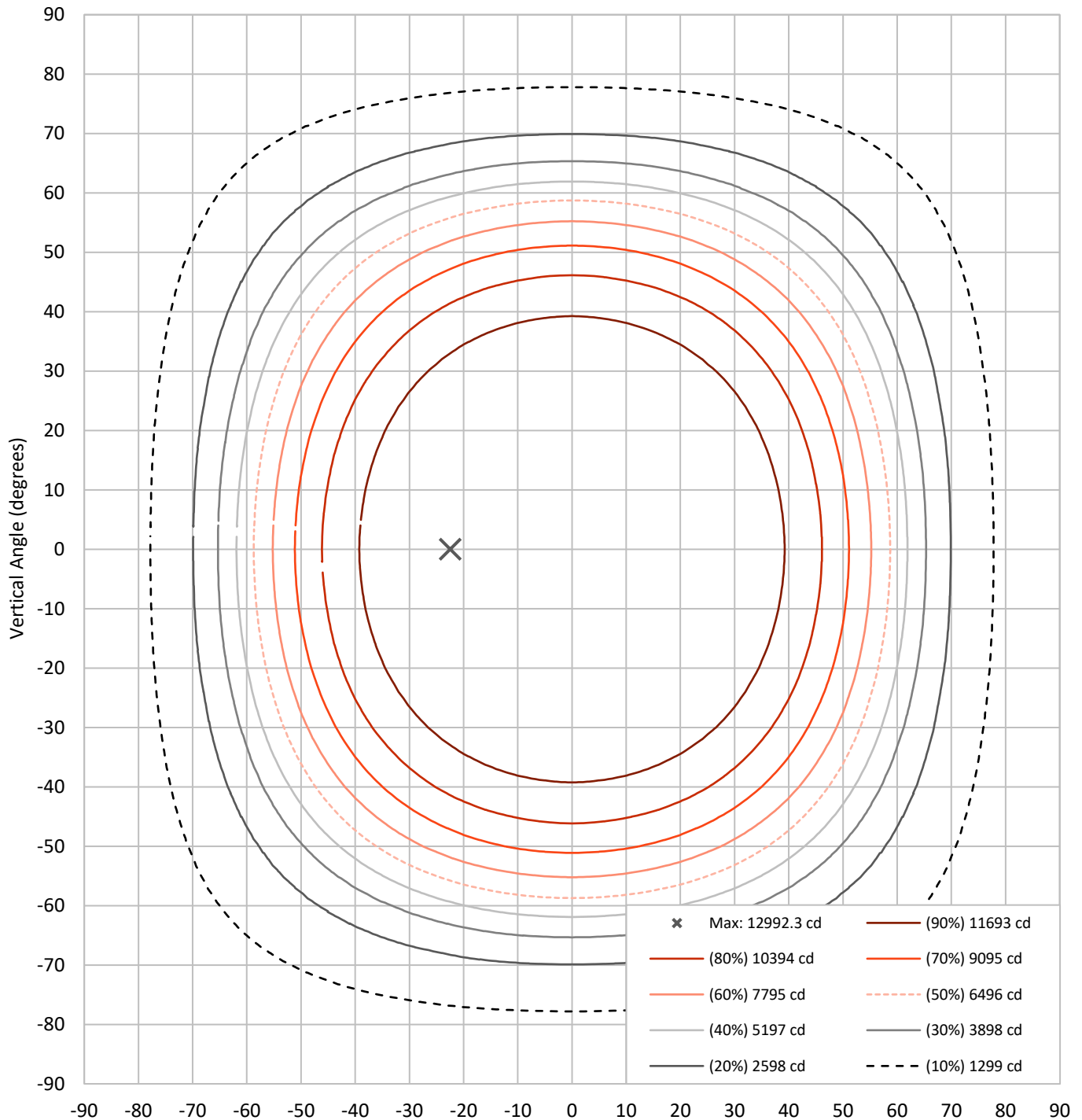
Field Angle (10%): 155.5°H x 153.7°V
Field Lumens: 39246.1 lumens
Field Efficiency: 98.1%

Input Watts (W): 327
Input Voltage (V): NR
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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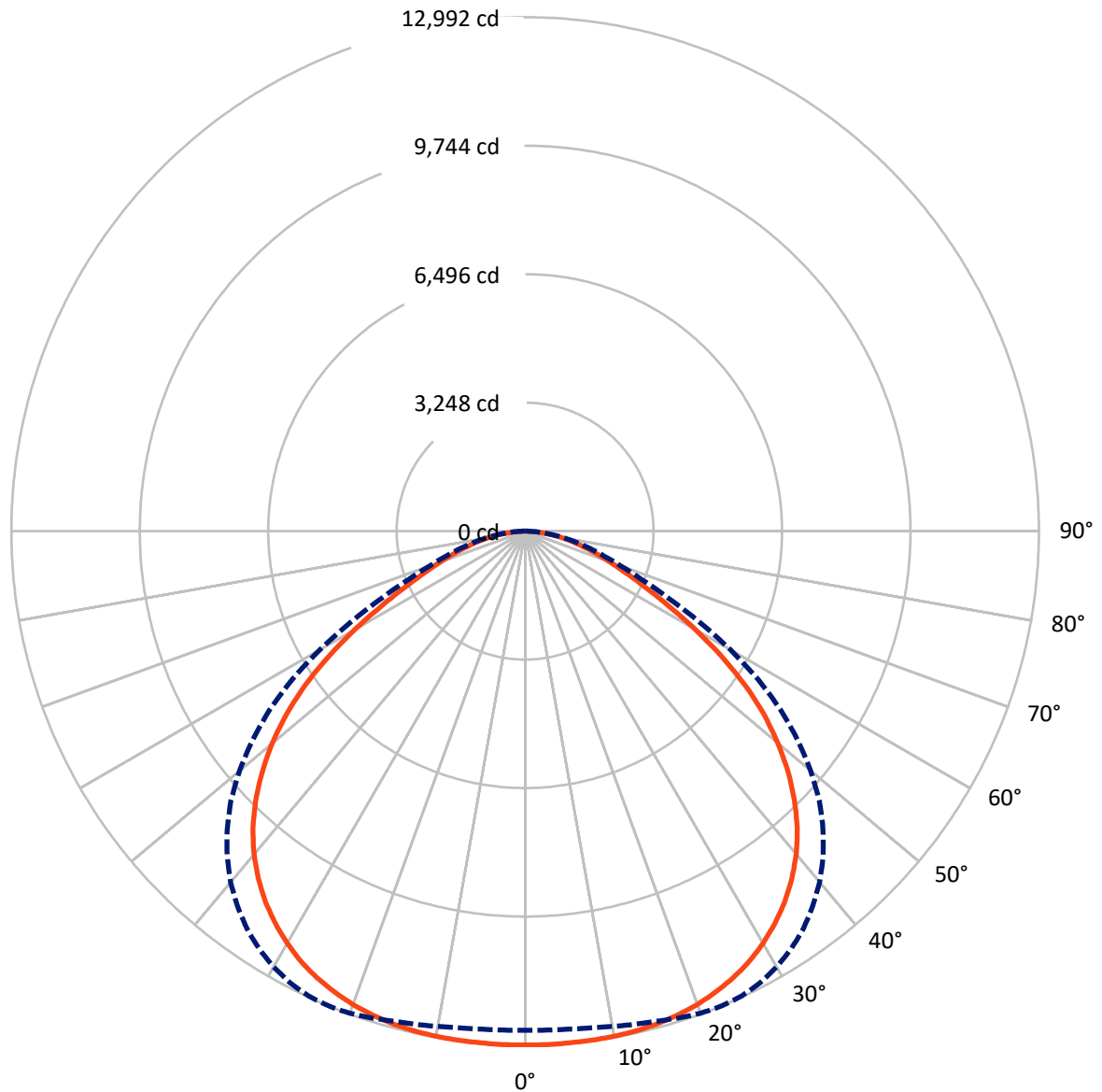
CATALOG NUMBER: EPH-VN-08-E-PRO-3000K-LAM

Iso-Candela Plot



REPORT NUMBER: P687831 (CONVERTED FROM TYPE C PHOTOMETRY)
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Luminous Intensity Polar Plot

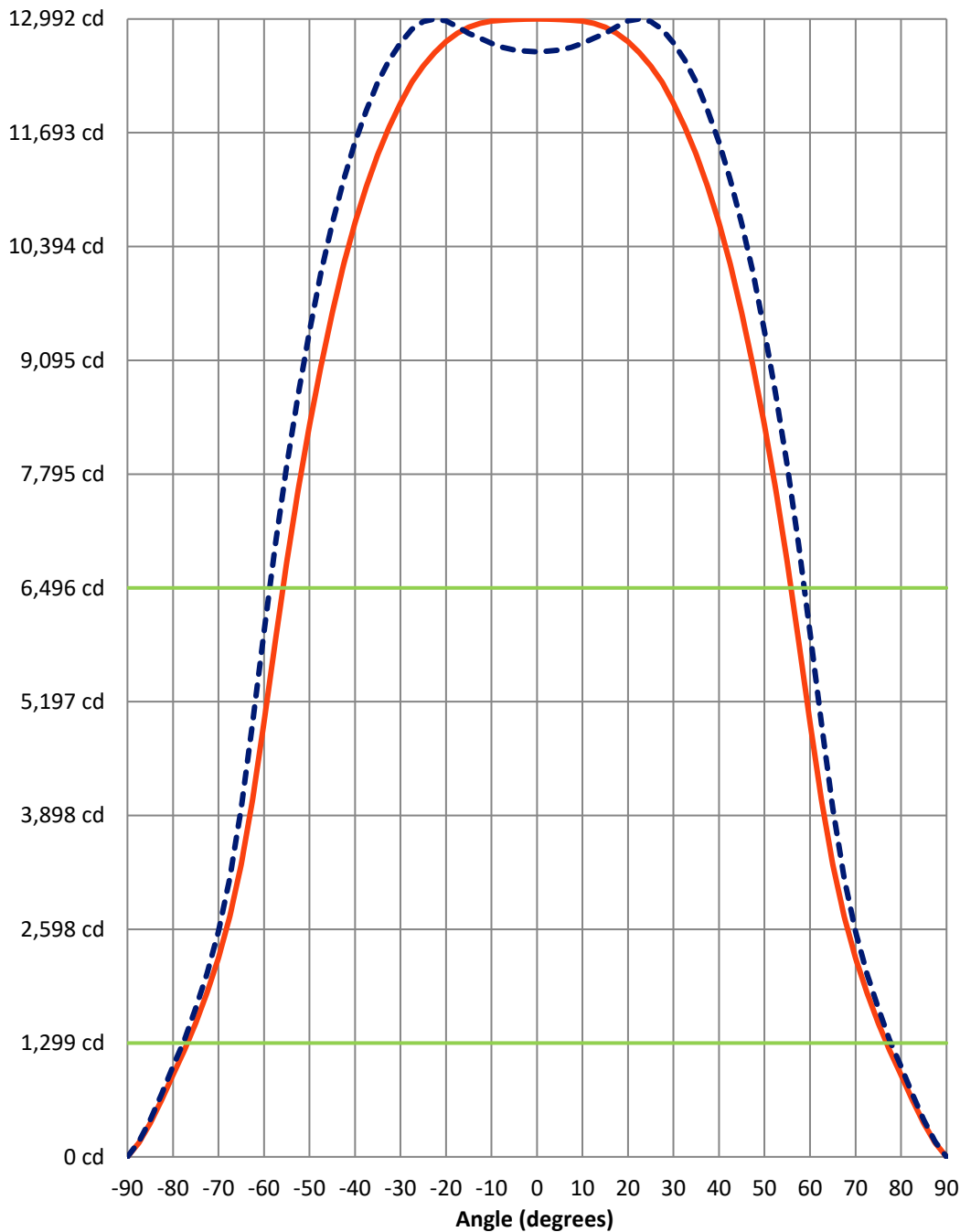


— Vertical Distribution Through -22.5-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
 H Angle: 117.5°
 V Angle: 111.6°
 Lumens: 32747.3
 Efficiency: 81.8%

Field:
 H Angle: 155.5°
 V Angle: 153.7°
 Lumens: 39246.1
 Efficiency: 98.1%

Spill:
 Lumens: 767.5
 Efficiency: 1.9%

— Vertical Distribution through -22.5-Deg
 - - - Horizontal Distribution through 0-Deg



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CATALOG NUMBER: EPH-VN-08-E-PRO-3000K-LAM

FIELD
BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	7.5	15.0	22.5	30.0	37.4	44.7	51.9	59.1	66.1	73.0
85°	0.0	15.0	30.1	45.0	59.9	74.7	89.3	103.7	118.0	132.0	145.8
82.5°	0.0	22.5	45.0	67.4	89.7	111.8	133.7	155.4	178.5	208.8	238.5
80°	0.0	30.0	59.9	89.7	119.4	148.8	180.3	221.7	262.7	303.0	342.6
77.5°	0.0	37.4	74.7	111.8	148.8	191.1	243.4	295.2	346.3	396.6	450.6
75°	0.0	44.7	89.3	133.7	180.3	243.4	306.0	368.0	430.6	502.0	572.3
72.5°	0.0	51.9	103.7	155.4	221.7	295.2	368.0	443.5	527.8	611.0	692.7
70°	0.0	59.1	118.0	178.5	262.7	346.3	430.6	527.8	623.9	718.8	818.7
67.5°	0.0	66.1	132.0	208.8	303.0	396.6	502.0	611.0	718.8	832.6	944.6
65°	0.0	73.0	145.8	238.5	342.6	450.6	572.3	692.7	818.7	944.6	1066.6
62.5°	0.0	79.7	159.3	267.7	381.4	508.1	641.2	777.0	916.7	1053.4	1182.1
60°	0.0	86.3	172.5	296.2	419.4	564.4	708.6	861.2	1012.7	1155.5	1295.3
57.5°	0.0	92.8	191.0	324.0	463.0	619.3	778.6	943.4	1102.6	1255.4	1422.9
55°	0.0	99.0	209.0	351.1	505.8	672.7	847.3	1023.5	1189.3	1357.6	1555.4
52.5°	0.0	105.1	226.5	377.3	547.3	725.2	914.0	1097.7	1273.5	1473.7	1684.4
50°	0.0	111.0	243.5	402.7	587.5	779.0	978.6	1169.1	1360.6	1586.4	1818.6
47.5°	0.0	116.7	259.8	428.3	626.2	831.0	1040.5	1238.1	1457.3	1695.3	1949.6
45°	0.0	122.1	275.5	456.2	663.5	880.9	1097.4	1304.6	1550.5	1808.7	2076.0
42.5°	0.0	127.3	290.5	482.9	699.2	928.8	1151.9	1376.6	1640.0	1917.7	2219.6
40°	0.0	132.3	304.8	508.4	734.4	974.5	1203.9	1451.2	1727.7	2022.0	2360.7
37.5°	0.0	137.0	318.4	532.6	769.1	1017.9	1253.4	1522.2	1815.7	2127.3	2495.2
35°	0.0	141.5	331.2	555.5	801.8	1057.5	1300.2	1589.3	1899.0	2241.5	2636.2
32.5°	0.0	145.6	343.3	577.0	832.6	1094.1	1347.2	1652.6	1977.5	2349.2	2789.3
30°	0.0	149.6	354.6	597.1	861.4	1128.3	1397.6	1712.8	2050.9	2450.0	2933.0
27.5°	0.0	153.2	365.0	615.8	888.1	1160.0	1444.5	1772.2	2124.6	2543.8	3066.7
25°	0.0	156.5	374.6	632.9	912.7	1189.2	1487.6	1826.9	2200.9	2645.7	3191.6
22.5°	0.0	159.5	383.4	648.5	935.0	1215.8	1526.9	1876.8	2270.6	2746.2	3338.5
20°	0.0	162.3	391.2	662.6	955.2	1239.8	1562.4	1921.7	2333.4	2836.9	3471.2
17.5°	0.0	164.7	398.2	675.0	973.1	1261.0	1593.8	1961.7	2389.2	2917.5	3589.2
15°	0.0	166.8	404.3	685.9	988.6	1279.5	1621.2	1996.5	2437.8	2987.9	3692.2
12.5°	0.0	168.6	409.5	695.1	1001.9	1295.3	1644.5	2026.0	2479.2	3047.7	3779.9
10°	0.0	170.1	413.7	702.7	1012.7	1308.2	1663.6	2050.4	2513.2	3096.9	3852.0
7.5°	0.0	171.2	417.0	708.6	1021.2	1318.3	1678.6	2069.3	2539.8	3135.3	3908.4
5°	0.0	172.0	419.4	712.8	1027.2	1325.5	1689.2	2082.9	2558.8	3162.8	3948.7
2.5°	0.0	172.5	420.8	715.4	1030.9	1329.9	1695.7	2091.1	2570.2	3179.4	3973.0
0°	0.0	172.7	421.3	716.2	1032.1	1331.3	1697.8	2093.8	2574.0	3184.9	3981.1
-2.5°	0.0	172.5	420.8	715.4	1030.9	1329.9	1695.7	2091.1	2570.2	3179.4	3973.0
-5°	0.0	172.0	419.4	712.8	1027.2	1325.5	1689.2	2082.9	2558.8	3162.8	3948.7
-7.5°	0.0	171.2	417.0	708.6	1021.2	1318.3	1678.6	2069.3	2539.8	3135.3	3908.4
-10°	0.0	170.1	413.7	702.7	1012.7	1308.2	1663.6	2050.4	2513.2	3096.9	3852.0
-12.5°	0.0	168.6	409.5	695.1	1001.9	1295.3	1644.5	2026.0	2479.2	3047.7	3779.9
-15°	0.0	166.8	404.3	685.9	988.6	1279.5	1621.2	1996.5	2437.8	2987.9	3692.2



REPORT NUMBER: P687831 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-E-PRO-3000K-LAM

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	159.5	383.4	648.5	935.0	1215.8	1526.9	1876.8	2270.6	2746.2	3338.5
-25°	0.0	156.5	374.6	632.9	912.7	1189.2	1487.6	1826.9	2200.9	2645.7	3191.6
-27.5°	0.0	153.2	365.0	615.8	888.1	1160.0	1444.5	1772.2	2124.6	2543.8	3066.7
-30°	0.0	149.6	354.6	597.1	861.4	1128.3	1397.6	1712.8	2050.9	2450.0	2933.0
-32.5°	0.0	145.6	343.3	577.0	832.6	1094.1	1347.2	1652.6	1977.5	2349.2	2789.3
-35°	0.0	141.5	331.2	555.5	801.8	1057.5	1300.2	1589.3	1899.0	2241.5	2636.2
-37.5°	0.0	137.0	318.4	532.6	769.1	1017.9	1253.4	1522.2	1815.7	2127.3	2495.2
-40°	0.0	132.3	304.8	508.4	734.4	974.5	1203.9	1451.2	1727.7	2022.0	2360.7
-42.5°	0.0	127.3	290.5	482.9	699.2	928.8	1151.9	1376.6	1640.0	1917.7	2219.6
-45°	0.0	122.1	275.5	456.2	663.5	880.9	1097.4	1304.6	1550.5	1808.7	2076.0
-47.5°	0.0	116.7	259.8	428.3	626.2	831.0	1040.5	1238.1	1457.3	1695.3	1949.6
-50°	0.0	111.0	243.5	402.7	587.5	779.0	978.6	1169.1	1360.6	1586.4	1818.6
-52.5°	0.0	105.1	226.5	377.3	547.3	725.2	914.0	1097.7	1273.5	1473.7	1684.4
-55°	0.0	99.0	209.0	351.1	505.8	672.7	847.3	1023.5	1189.3	1357.6	1555.4
-57.5°	0.0	92.8	191.0	324.0	463.0	619.3	778.6	943.4	1102.6	1255.4	1422.9
-60°	0.0	86.3	172.5	296.2	419.4	564.4	708.6	861.2	1012.7	1155.5	1295.3
-62.5°	0.0	79.7	159.3	267.7	381.4	508.1	641.2	777.0	916.7	1053.4	1182.1
-65°	0.0	73.0	145.8	238.5	342.6	450.6	572.3	692.7	818.7	944.6	1066.6
-67.5°	0.0	66.1	132.0	208.8	303.0	396.6	502.0	611.0	718.8	832.6	944.6
-70°	0.0	59.1	118.0	178.5	262.7	346.3	430.6	527.8	623.9	718.8	818.7
-72.5°	0.0	51.9	103.7	155.4	221.7	295.2	368.0	443.5	527.8	611.0	692.7
-75°	0.0	44.7	89.3	133.7	180.3	243.4	306.0	368.0	430.6	502.0	572.3
-77.5°	0.0	37.4	74.7	111.8	148.8	191.1	243.4	295.2	346.3	396.6	450.6
-80°	0.0	30.0	59.9	89.7	119.4	148.8	180.3	221.7	262.7	303.0	342.6
-82.5°	0.0	22.5	45.0	67.4	89.7	111.8	133.7	155.4	178.5	208.8	238.5
-85°	0.0	15.0	30.1	45.0	59.9	74.7	89.3	103.7	118.0	132.0	145.8
-87.5°	0.0	7.5	15.0	22.5	30.0	37.4	44.7	51.9	59.1	66.1	73.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P687831 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-E-PRO-3000K-LAM

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	79.7	86.3	92.8	99.0	105.1	111.0	116.7	122.1	127.3	132.3	137.0
85°	159.3	172.5	191.0	209.0	226.5	243.5	259.8	275.5	290.5	304.8	318.4
82.5°	267.7	296.2	324.0	351.1	377.3	402.7	428.3	456.2	482.9	508.4	532.6
80°	381.4	419.4	463.0	505.8	547.3	587.5	626.2	663.5	699.2	734.4	769.1
77.5°	508.1	564.4	619.3	672.7	725.2	779.0	831.0	880.9	928.8	974.5	1017.9
75°	641.2	708.6	778.6	847.3	914.0	978.6	1040.5	1097.4	1151.9	1203.9	1253.4
72.5°	777.0	861.2	943.4	1023.5	1097.7	1169.1	1238.1	1304.6	1376.6	1451.2	1522.2
70°	916.7	1012.7	1102.6	1189.3	1273.5	1360.6	1457.3	1550.5	1640.0	1727.7	1815.7
67.5°	1053.4	1155.5	1255.4	1357.6	1473.7	1586.4	1695.3	1808.7	1917.7	2022.0	2127.3
65°	1182.1	1295.3	1422.9	1555.4	1684.4	1818.6	1949.6	2076.0	2219.6	2360.7	2495.2
62.5°	1308.6	1455.7	1604.7	1754.5	1907.8	2056.7	2223.8	2392.8	2555.5	2748.7	2938.0
60°	1455.7	1621.2	1790.3	1961.7	2136.2	2333.4	2524.6	2746.2	2972.7	3191.6	3462.2
57.5°	1604.7	1790.3	1979.7	2180.2	2399.6	2623.9	2887.8	3143.2	3451.5	3759.8	4071.0
55°	1754.5	1961.7	2180.2	2421.8	2680.7	2973.5	3280.2	3639.5	3987.7	4395.5	4786.2
52.5°	1907.8	2136.2	2399.6	2680.7	3002.1	3355.5	3753.3	4174.5	4630.6	5076.9	5523.6
50°	2056.7	2333.4	2623.9	2973.5	3355.5	3791.4	4268.5	4772.9	5279.9	5779.4	6251.5
47.5°	2223.8	2524.6	2887.8	3280.2	3753.3	4268.5	4820.6	5382.1	5934.5	6454.4	6953.2
45°	2392.8	2746.2	3143.2	3639.5	4174.5	4772.9	5382.1	5986.4	6556.6	7096.5	7574.7
42.5°	2555.5	2972.7	3451.5	3987.7	4630.6	5279.9	5934.5	6556.6	7143.3	7669.7	8147.3
40°	2748.7	3191.6	3759.8	4395.5	5076.9	5779.4	6454.4	7096.5	7669.7	8190.6	8671.7
37.5°	2938.0	3462.2	4071.0	4786.2	5523.6	6251.5	6953.2	7574.7	8147.3	8671.7	9134.5
35°	3117.7	3719.4	4414.0	5170.8	5950.0	6697.1	7386.2	8018.1	8583.5	9093.6	9565.8
32.5°	3318.5	3962.5	4738.7	5544.9	6344.2	7107.4	7795.2	8408.9	8971.9	9489.7	9956.1
30°	3526.0	4237.6	5049.5	5897.2	6715.0	7467.2	8150.8	8771.5	9330.9	9839.6	10292.5
27.5°	3719.4	4498.0	5351.8	6219.8	7054.8	7804.5	8475.3	9087.3	9648.2	10158.3	10592.3
25°	3898.0	4738.7	5631.7	6516.3	7344.5	8093.7	8769.8	9382.0	9937.5	10421.5	10847.8
22.5°	4079.2	4959.4	5888.2	6788.5	7610.6	8351.3	9022.1	9634.3	10187.7	10664.3	11078.8
20°	4259.6	5170.8	6116.5	7030.4	7852.1	8585.4	9251.7	9861.0	10395.3	10861.4	11273.3
17.5°	4420.2	5359.1	6317.7	7228.3	8048.9	8785.5	9454.7	10064.7	10582.1	11039.1	11440.9
15°	4560.5	5523.6	6493.6	7401.7	8217.8	8952.1	9620.0	10220.6	10735.8	11190.6	11588.9
12.5°	4679.9	5663.9	6643.7	7549.6	8362.1	9094.6	9761.6	10351.1	10860.6	11308.9	11696.0
10°	4778.3	5779.4	6767.4	7671.6	8481.3	9212.3	9878.7	10459.1	10964.1	11407.1	11785.3
7.5°	4855.1	5869.7	6864.1	7767.1	8574.5	9304.6	9970.5	10544.0	11045.5	11484.5	11855.7
5°	4910.1	5934.5	6933.4	7835.6	8641.5	9370.8	10036.6	10605.1	11104.1	11540.3	11906.6
2.5°	4943.3	5973.4	6975.2	7876.8	8681.8	9410.8	10076.4	10641.9	11139.5	11574.0	11937.3
0°	4954.3	5986.4	6989.1	7890.6	8695.3	9424.1	10089.7	10654.2	11151.3	11585.3	11947.6
-2.5°	4943.3	5973.4	6975.2	7876.8	8681.8	9410.8	10076.4	10641.9	11139.5	11574.0	11937.3
-5°	4910.1	5934.5	6933.4	7835.6	8641.5	9370.8	10036.6	10605.1	11104.1	11540.3	11906.6
-7.5°	4855.1	5869.7	6864.1	7767.1	8574.5	9304.6	9970.5	10544.0	11045.5	11484.5	11855.7
-10°	4778.3	5779.4	6767.4	7671.6	8481.3	9212.3	9878.7	10459.1	10964.1	11407.1	11785.3
-12.5°	4679.9	5663.9	6643.7	7549.6	8362.1	9094.6	9761.6	10351.1	10860.6	11308.9	11696.0
-15°	4560.5	5523.6	6493.6	7401.7	8217.8	8952.1	9620.0	10220.6	10735.8	11190.6	11588.9



REPORT NUMBER: P687831 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-E-PRO-3000K-LAM

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	4079.2	4959.4	5888.2	6788.5	7610.6	8351.3	9022.1	9634.3	10187.7	10664.3	11078.8
-25°	3898.0	4738.7	5631.7	6516.3	7344.5	8093.7	8769.8	9382.0	9937.5	10421.5	10847.8
-27.5°	3719.4	4498.0	5351.8	6219.8	7054.8	7804.5	8475.3	9087.3	9648.2	10158.3	10592.3
-30°	3526.0	4237.6	5049.5	5897.2	6715.0	7467.2	8150.8	8771.5	9330.9	9839.6	10292.5
-32.5°	3318.5	3962.5	4738.7	5544.9	6344.2	7107.4	7795.2	8408.9	8971.9	9489.7	9956.1
-35°	3117.7	3719.4	4414.0	5170.8	5950.0	6697.1	7386.2	8018.1	8583.5	9093.6	9565.8
-37.5°	2938.0	3462.2	4071.0	4786.2	5523.6	6251.5	6953.2	7574.7	8147.3	8671.7	9134.5
-40°	2748.7	3191.6	3759.8	4395.5	5076.9	5779.4	6454.4	7096.5	7669.7	8190.6	8671.7
-42.5°	2555.5	2972.7	3451.5	3987.7	4630.6	5279.9	5934.5	6556.6	7143.3	7669.7	8147.3
-45°	2392.8	2746.2	3143.2	3639.5	4174.5	4772.9	5382.1	5986.4	6556.6	7096.5	7574.7
-47.5°	2223.8	2524.6	2887.8	3280.2	3753.3	4268.5	4820.6	5382.1	5934.5	6454.4	6953.2
-50°	2056.7	2333.4	2623.9	2973.5	3355.5	3791.4	4268.5	4772.9	5279.9	5779.4	6251.5
-52.5°	1907.8	2136.2	2399.6	2680.7	3002.1	3355.5	3753.3	4174.5	4630.6	5076.9	5523.6
-55°	1754.5	1961.7	2180.2	2421.8	2680.7	2973.5	3280.2	3639.5	3987.7	4395.5	4786.2
-57.5°	1604.7	1790.3	1979.7	2180.2	2399.6	2623.9	2887.8	3143.2	3451.5	3759.8	4071.0
-60°	1455.7	1621.2	1790.3	1961.7	2136.2	2333.4	2524.6	2746.2	2972.7	3191.6	3462.2
-62.5°	1308.6	1455.7	1604.7	1754.5	1907.8	2056.7	2223.8	2392.8	2555.5	2748.7	2938.0
-65°	1182.1	1295.3	1422.9	1555.4	1684.4	1818.6	1949.6	2076.0	2219.6	2360.7	2495.2
-67.5°	1053.4	1155.5	1255.4	1357.6	1473.7	1586.4	1695.3	1808.7	1917.7	2022.0	2127.3
-70°	916.7	1012.7	1102.6	1189.3	1273.5	1360.6	1457.3	1550.5	1640.0	1727.7	1815.7
-72.5°	777.0	861.2	943.4	1023.5	1097.7	1169.1	1238.1	1304.6	1376.6	1451.2	1522.2
-75°	641.2	708.6	778.6	847.3	914.0	978.6	1040.5	1097.4	1151.9	1203.9	1253.4
-77.5°	508.1	564.4	619.3	672.7	725.2	779.0	831.0	880.9	928.8	974.5	1017.9
-80°	381.4	419.4	463.0	505.8	547.3	587.5	626.2	663.5	699.2	734.4	769.1
-82.5°	267.7	296.2	324.0	351.1	377.3	402.7	428.3	456.2	482.9	508.4	532.6
-85°	159.3	172.5	191.0	209.0	226.5	243.5	259.8	275.5	290.5	304.8	318.4
-87.5°	79.7	86.3	92.8	99.0	105.1	111.0	116.7	122.1	127.3	132.3	137.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P687831 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-E-PRO-3000K-LAM

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	141.5	145.6	149.6	153.2	156.5	159.5	162.3	164.7	166.8	168.6	170.1
85°	331.2	343.3	354.6	365.0	374.6	383.4	391.2	398.2	404.3	409.5	413.7
82.5°	555.5	577.0	597.1	615.8	632.9	648.5	662.6	675.0	685.9	695.1	702.7
80°	801.8	832.6	861.4	888.1	912.7	935.0	955.2	973.1	988.6	1001.9	1012.7
77.5°	1057.5	1094.1	1128.3	1160.0	1189.2	1215.8	1239.8	1261.0	1279.5	1295.3	1308.2
75°	1300.2	1347.2	1397.6	1444.5	1487.6	1526.9	1562.4	1593.8	1621.2	1644.5	1663.6
72.5°	1589.3	1652.6	1712.8	1772.2	1826.9	1876.8	1921.7	1961.7	1996.5	2026.0	2050.4
70°	1899.0	1977.5	2050.9	2124.6	2200.9	2270.6	2333.4	2389.2	2437.8	2479.2	2513.2
67.5°	2241.5	2349.2	2450.0	2543.8	2645.7	2746.2	2836.9	2917.5	2987.9	3047.7	3096.9
65°	2636.2	2789.3	2933.0	3066.7	3191.6	3338.5	3471.2	3589.2	3692.2	3779.9	3852.0
62.5°	3117.7	3318.5	3526.0	3719.4	3898.0	4079.2	4259.6	4420.2	4560.5	4679.9	4778.3
60°	3719.4	3962.5	4237.6	4498.0	4738.7	4959.4	5170.8	5359.1	5523.6	5663.9	5779.4
57.5°	4414.0	4738.7	5049.5	5351.8	5631.7	5888.2	6116.5	6317.7	6493.6	6643.7	6767.4
55°	5170.8	5544.9	5897.2	6219.8	6516.3	6788.5	7030.4	7228.3	7401.7	7549.6	7671.6
52.5°	5950.0	6344.2	6715.0	7054.8	7344.5	7610.6	7852.1	8048.9	8217.8	8362.1	8481.3
50°	6697.1	7107.4	7467.2	7804.5	8093.7	8351.3	8585.4	8785.5	8952.1	9094.6	9212.3
47.5°	7386.2	7795.2	8150.8	8475.3	8769.8	9022.1	9251.7	9454.7	9620.0	9761.6	9878.7
45°	8018.1	8408.9	8771.5	9087.3	9382.0	9634.3	9861.0	10064.7	10220.6	10351.1	10459.1
42.5°	8583.5	8971.9	9330.9	9648.2	9937.5	10187.7	10395.3	10582.1	10735.8	10860.6	10964.1
40°	9093.6	9489.7	9839.6	10158.3	10421.5	10664.3	10861.4	11039.1	11190.6	11308.9	11407.1
37.5°	9565.8	9956.1	10292.5	10592.3	10847.8	11078.8	11273.3	11440.9	11588.9	11696.0	11785.3
35°	9995.2	10360.4	10691.3	10972.7	11227.1	11443.4	11633.3	11784.4	11918.8	12025.0	12110.9
32.5°	10360.4	10722.1	11035.9	11312.0	11559.5	11757.3	11936.4	12081.8	12210.5	12310.8	12384.8
30°	10691.3	11035.9	11340.6	11612.9	11833.1	12029.5	12199.7	12336.9	12447.1	12538.3	12601.7
27.5°	10972.7	11312.0	11612.9	11858.7	12076.2	12271.1	12415.5	12542.3	12635.9	12718.1	12772.9
25°	11227.1	11559.5	11833.1	12076.2	12290.4	12455.6	12591.1	12703.4	12786.8	12857.6	12899.0
22.5°	11443.4	11757.3	12029.5	12271.1	12455.6	12607.6	12733.8	12829.4	12898.3	12942.4	12968.6
20°	11633.3	11936.4	12199.7	12415.5	12591.1	12733.8	12843.8	12915.6	12965.1	12981.1	12990.4
17.5°	11784.4	12081.8	12336.9	12542.3	12703.4	12829.4	12915.6	12968.2	12987.7	12983.0	12972.0
15°	11918.8	12210.5	12447.1	12635.9	12786.8	12898.3	12965.1	12987.7	12980.5	12956.0	12916.4
12.5°	12025.0	12310.8	12538.3	12718.1	12857.6	12942.4	12981.1	12983.0	12956.0	12906.8	12857.1
10°	12110.9	12384.8	12601.7	12772.9	12899.0	12968.6	12990.4	12972.0	12916.4	12857.1	12808.4
7.5°	12178.8	12443.5	12652.1	12816.6	12926.4	12978.7	12982.3	12944.2	12880.6	12818.1	12772.8
5°	12228.0	12486.1	12688.8	12848.5	12946.5	12986.2	12976.3	12922.2	12852.1	12794.0	12741.9
2.5°	12257.7	12511.9	12711.0	12867.9	12958.8	12990.8	12972.6	12908.5	12834.1	12778.6	12721.5
0°	12267.7	12520.5	12718.5	12874.4	12962.9	12992.3	12971.3	12903.9	12828.0	12773.3	12714.3
-2.5°	12257.7	12511.9	12711.0	12867.9	12958.8	12990.8	12972.6	12908.5	12834.1	12778.6	12721.5
-5°	12228.0	12486.1	12688.8	12848.5	12946.5	12986.2	12976.3	12922.2	12852.1	12794.0	12741.9
-7.5°	12178.8	12443.5	12652.1	12816.6	12926.4	12978.7	12982.3	12944.2	12880.6	12818.1	12772.8
-10°	12110.9	12384.8	12601.7	12772.9	12899.0	12968.6	12990.4	12972.0	12916.4	12857.1	12808.4
-12.5°	12025.0	12310.8	12538.3	12718.1	12857.6	12942.4	12981.1	12983.0	12956.0	12906.8	12857.1
-15°	11918.8	12210.5	12447.1	12635.9	12786.8	12898.3	12965.1	12987.7	12980.5	12956.0	12916.4



REPORT NUMBER: P687831 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-E-PRO-3000K-LAM

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	11443.4	11757.3	12029.5	12271.1	12455.6	12607.6	12733.8	12829.4	12898.3	12942.4	12968.6
-25°	11227.1	11559.5	11833.1	12076.2	12290.4	12455.6	12591.1	12703.4	12786.8	12857.6	12899.0
-27.5°	10972.7	11312.0	11612.9	11858.7	12076.2	12271.1	12415.5	12542.3	12635.9	12718.1	12772.9
-30°	10691.3	11035.9	11340.6	11612.9	11833.1	12029.5	12199.7	12336.9	12447.1	12538.3	12601.7
-32.5°	10360.4	10722.1	11035.9	11312.0	11559.5	11757.3	11936.4	12081.8	12210.5	12310.8	12384.8
-35°	9995.2	10360.4	10691.3	10972.7	11227.1	11443.4	11633.3	11784.4	11918.8	12025.0	12110.9
-37.5°	9565.8	9956.1	10292.5	10592.3	10847.8	11078.8	11273.3	11440.9	11588.9	11696.0	11785.3
-40°	9093.6	9489.7	9839.6	10158.3	10421.5	10664.3	10861.4	11039.1	11190.6	11308.9	11407.1
-42.5°	8583.5	8971.9	9330.9	9648.2	9937.5	10187.7	10395.3	10582.1	10735.8	10860.6	10964.1
-45°	8018.1	8408.9	8771.5	9087.3	9382.0	9634.3	9861.0	10064.7	10220.6	10351.1	10459.1
-47.5°	7386.2	7795.2	8150.8	8475.3	8769.8	9022.1	9251.7	9454.7	9620.0	9761.6	9878.7
-50°	6697.1	7107.4	7467.2	7804.5	8093.7	8351.3	8585.4	8785.5	8952.1	9094.6	9212.3
-52.5°	5950.0	6344.2	6715.0	7054.8	7344.5	7610.6	7852.1	8048.9	8217.8	8362.1	8481.3
-55°	5170.8	5544.9	5897.2	6219.8	6516.3	6788.5	7030.4	7228.3	7401.7	7549.6	7671.6
-57.5°	4414.0	4738.7	5049.5	5351.8	5631.7	5888.2	6116.5	6317.7	6493.6	6643.7	6767.4
-60°	3719.4	3962.5	4237.6	4498.0	4738.7	4959.4	5170.8	5359.1	5523.6	5663.9	5779.4
-62.5°	3117.7	3318.5	3526.0	3719.4	3898.0	4079.2	4259.6	4420.2	4560.5	4679.9	4778.3
-65°	2636.2	2789.3	2933.0	3066.7	3191.6	3338.5	3471.2	3589.2	3692.2	3779.9	3852.0
-67.5°	2241.5	2349.2	2450.0	2543.8	2645.7	2746.2	2836.9	2917.5	2987.9	3047.7	3096.9
-70°	1899.0	1977.5	2050.9	2124.6	2200.9	2270.6	2333.4	2389.2	2437.8	2479.2	2513.2
-72.5°	1589.3	1652.6	1712.8	1772.2	1826.9	1876.8	1921.7	1961.7	1996.5	2026.0	2050.4
-75°	1300.2	1347.2	1397.6	1444.5	1487.6	1526.9	1562.4	1593.8	1621.2	1644.5	1663.6
-77.5°	1057.5	1094.1	1128.3	1160.0	1189.2	1215.8	1239.8	1261.0	1279.5	1295.3	1308.2
-80°	801.8	832.6	861.4	888.1	912.7	935.0	955.2	973.1	988.6	1001.9	1012.7
-82.5°	555.5	577.0	597.1	615.8	632.9	648.5	662.6	675.0	685.9	695.1	702.7
-85°	331.2	343.3	354.6	365.0	374.6	383.4	391.2	398.2	404.3	409.5	413.7
-87.5°	141.5	145.6	149.6	153.2	156.5	159.5	162.3	164.7	166.8	168.6	170.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P687831 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-E-PRO-3000K-LAM

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	171.2	172.0	172.5	172.7	172.5	172.0	171.2	170.1	168.6	166.8	164.7
85°	417.0	419.4	420.8	421.3	420.8	419.4	417.0	413.7	409.5	404.3	398.2
82.5°	708.6	712.8	715.4	716.2	715.4	712.8	708.6	702.7	695.1	685.9	675.0
80°	1021.2	1027.2	1030.9	1032.1	1030.9	1027.2	1021.2	1012.7	1001.9	988.6	973.1
77.5°	1318.3	1325.5	1329.9	1331.3	1329.9	1325.5	1318.3	1308.2	1295.3	1279.5	1261.0
75°	1678.6	1689.2	1695.7	1697.8	1695.7	1689.2	1678.6	1663.6	1644.5	1621.2	1593.8
72.5°	2069.3	2082.9	2091.1	2093.8	2091.1	2082.9	2069.3	2050.4	2026.0	1996.5	1961.7
70°	2539.8	2558.8	2570.2	2574.0	2570.2	2558.8	2539.8	2513.2	2479.2	2437.8	2389.2
67.5°	3135.3	3162.8	3179.4	3184.9	3179.4	3162.8	3135.3	3096.9	3047.7	2987.9	2917.5
65°	3908.4	3948.7	3973.0	3981.1	3973.0	3948.7	3908.4	3852.0	3779.9	3692.2	3589.2
62.5°	4855.1	4910.1	4943.3	4954.3	4943.3	4910.1	4855.1	4778.3	4679.9	4560.5	4420.2
60°	5869.7	5934.5	5973.4	5986.4	5973.4	5934.5	5869.7	5779.4	5663.9	5523.6	5359.1
57.5°	6864.1	6933.4	6975.2	6989.1	6975.2	6933.4	6864.1	6767.4	6643.7	6493.6	6317.7
55°	7767.1	7835.6	7876.8	7890.6	7876.8	7835.6	7767.1	7671.6	7549.6	7401.7	7228.3
52.5°	8574.5	8641.5	8681.8	8695.3	8681.8	8641.5	8574.5	8481.3	8362.1	8217.8	8048.9
50°	9304.6	9370.8	9410.8	9424.1	9410.8	9370.8	9304.6	9212.3	9094.6	8952.1	8785.5
47.5°	9970.5	10036.6	10076.4	10089.7	10076.4	10036.6	9970.5	9878.7	9761.6	9620.0	9454.7
45°	10544.0	10605.1	10641.9	10654.2	10641.9	10605.1	10544.0	10459.1	10351.1	10220.6	10064.7
42.5°	11045.5	11104.1	11139.5	11151.3	11139.5	11104.1	11045.5	10964.1	10860.6	10735.8	10582.1
40°	11484.5	11540.3	11574.0	11585.3	11574.0	11540.3	11484.5	11407.1	11308.9	11190.6	11039.1
37.5°	11855.7	11906.6	11937.3	11947.6	11937.3	11906.6	11855.7	11785.3	11696.0	11588.9	11440.9
35°	12178.8	12228.0	12257.7	12267.7	12257.7	12228.0	12178.8	12110.9	12025.0	11918.8	11784.4
32.5°	12443.5	12486.1	12511.9	12520.5	12511.9	12486.1	12443.5	12384.8	12310.8	12210.5	12081.8
30°	12652.1	12688.8	12711.0	12718.5	12711.0	12688.8	12652.1	12601.7	12538.3	12447.1	12336.9
27.5°	12816.6	12848.5	12867.9	12874.4	12867.9	12848.5	12816.6	12772.9	12718.1	12635.9	12542.3
25°	12926.4	12946.5	12958.8	12962.9	12958.8	12946.5	12926.4	12899.0	12857.6	12786.8	12703.4
22.5°	12978.7	12986.2	12990.8	12992.3	12990.8	12986.2	12978.7	12968.6	12942.4	12898.3	12829.4
20°	12982.3	12976.3	12972.6	12971.3	12972.6	12976.3	12982.3	12990.4	12981.1	12965.1	12915.6
17.5°	12944.2	12922.2	12908.5	12903.9	12908.5	12922.2	12944.2	12972.0	12983.0	12987.7	12968.2
15°	12880.6	12852.1	12834.1	12828.0	12834.1	12852.1	12880.6	12916.4	12956.0	12980.5	12987.7
12.5°	12818.1	12794.0	12778.6	12773.3	12778.6	12794.0	12818.1	12857.1	12906.8	12956.0	12983.0
10°	12772.8	12741.9	12721.5	12714.3	12721.5	12741.9	12772.8	12808.4	12857.1	12916.4	12972.0
7.5°	12728.3	12695.9	12675.5	12668.0	12675.5	12695.9	12728.3	12772.8	12818.1	12880.6	12944.2
5°	12695.9	12662.9	12645.4	12638.5	12645.4	12662.9	12695.9	12741.9	12794.0	12852.1	12922.2
2.5°	12675.5	12645.4	12631.1	12625.8	12631.1	12645.4	12675.5	12721.5	12778.6	12834.1	12908.5
0°	12668.0	12638.5	12625.8	12617.4	12625.8	12638.5	12668.0	12714.3	12773.3	12828.0	12903.9
-2.5°	12675.5	12645.4	12631.1	12625.8	12631.1	12645.4	12675.5	12721.5	12778.6	12834.1	12908.5
-5°	12695.9	12662.9	12645.4	12638.5	12645.4	12662.9	12695.9	12741.9	12794.0	12852.1	12922.2
-7.5°	12728.3	12695.9	12675.5	12668.0	12675.5	12695.9	12728.3	12772.8	12818.1	12880.6	12944.2
-10°	12772.8	12741.9	12721.5	12714.3	12721.5	12741.9	12772.8	12808.4	12857.1	12916.4	12972.0
-12.5°	12818.1	12794.0	12778.6	12773.3	12778.6	12794.0	12818.1	12857.1	12906.8	12956.0	12983.0
-15°	12880.6	12852.1	12834.1	12828.0	12834.1	12852.1	12880.6	12916.4	12956.0	12980.5	12987.7



REPORT NUMBER: P687831 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-VN-08-E-PRO-3000K-LAM

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	12978.7	12986.2	12990.8	12992.3	12990.8	12986.2	12978.7	12968.6	12942.4	12898.3	12829.4
-25°	12926.4	12946.5	12958.8	12962.9	12958.8	12946.5	12926.4	12899.0	12857.6	12786.8	12703.4
-27.5°	12816.6	12848.5	12867.9	12874.4	12867.9	12848.5	12816.6	12772.9	12718.1	12635.9	12542.3
-30°	12652.1	12688.8	12711.0	12718.5	12711.0	12688.8	12652.1	12601.7	12538.3	12447.1	12336.9
-32.5°	12443.5	12486.1	12511.9	12520.5	12511.9	12486.1	12443.5	12384.8	12310.8	12210.5	12081.8
-35°	12178.8	12228.0	12257.7	12267.7	12257.7	12228.0	12178.8	12110.9	12025.0	11918.8	11784.4
-37.5°	11855.7	11906.6	11937.3	11947.6	11937.3	11906.6	11855.7	11785.3	11696.0	11588.9	11440.9
-40°	11484.5	11540.3	11574.0	11585.3	11574.0	11540.3	11484.5	11407.1	11308.9	11190.6	11039.1
-42.5°	11045.5	11104.1	11139.5	11151.3	11139.5	11104.1	11045.5	10964.1	10860.6	10735.8	10582.1
-45°	10544.0	10605.1	10641.9	10654.2	10641.9	10605.1	10544.0	10459.1	10351.1	10220.6	10064.7
-47.5°	9970.5	10036.6	10076.4	10089.7	10076.4	10036.6	9970.5	9878.7	9761.6	9620.0	9454.7
-50°	9304.6	9370.8	9410.8	9424.1	9410.8	9370.8	9304.6	9212.3	9094.6	8952.1	8785.5
-52.5°	8574.5	8641.5	8681.8	8695.3	8681.8	8641.5	8574.5	8481.3	8362.1	8217.8	8048.9
-55°	7767.1	7835.6	7876.8	7890.6	7876.8	7835.6	7767.1	7671.6	7549.6	7401.7	7228.3
-57.5°	6864.1	6933.4	6975.2	6989.1	6975.2	6933.4	6864.1	6767.4	6643.7	6493.6	6317.7
-60°	5869.7	5934.5	5973.4	5986.4	5973.4	5934.5	5869.7	5779.4	5663.9	5523.6	5359.1
-62.5°	4855.1	4910.1	4943.3	4954.3	4943.3	4910.1	4855.1	4778.3	4679.9	4560.5	4420.2
-65°	3908.4	3948.7	3973.0	3981.1	3973.0	3948.7	3908.4	3852.0	3779.9	3692.2	3589.2
-67.5°	3135.3	3162.8	3179.4	3184.9	3179.4	3162.8	3135.3	3096.9	3047.7	2987.9	2917.5
-70°	2539.8	2558.8	2570.2	2574.0	2570.2	2558.8	2539.8	2513.2	2479.2	2437.8	2389.2
-72.5°	2069.3	2082.9	2091.1	2093.8	2091.1	2082.9	2069.3	2050.4	2026.0	1996.5	1961.7
-75°	1678.6	1689.2	1695.7	1697.8	1695.7	1689.2	1678.6	1663.6	1644.5	1621.2	1593.8
-77.5°	1318.3	1325.5	1329.9	1331.3	1329.9	1325.5	1318.3	1308.2	1295.3	1279.5	1261.0
-80°	1021.2	1027.2	1030.9	1032.1	1030.9	1027.2	1021.2	1012.7	1001.9	988.6	973.1
-82.5°	708.6	712.8	715.4	716.2	715.4	712.8	708.6	702.7	695.1	685.9	675.0
-85°	417.0	419.4	420.8	421.3	420.8	419.4	417.0	413.7	409.5	404.3	398.2
-87.5°	171.2	172.0	172.5	172.7	172.5	172.0	171.2	170.1	168.6	166.8	164.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P687831 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-E-PRO-3000K-LAM

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	162.3	159.5	156.5	153.2	149.6	145.6	141.5	137.0	132.3	127.3	122.1
85°	391.2	383.4	374.6	365.0	354.6	343.3	331.2	318.4	304.8	290.5	275.5
82.5°	662.6	648.5	632.9	615.8	597.1	577.0	555.5	532.6	508.4	482.9	456.2
80°	955.2	935.0	912.7	888.1	861.4	832.6	801.8	769.1	734.4	699.2	663.5
77.5°	1239.8	1215.8	1189.2	1160.0	1128.3	1094.1	1057.5	1017.9	974.5	928.8	880.9
75°	1562.4	1526.9	1487.6	1444.5	1397.6	1347.2	1300.2	1253.4	1203.9	1151.9	1097.4
72.5°	1921.7	1876.8	1826.9	1772.2	1712.8	1652.6	1589.3	1522.2	1451.2	1376.6	1304.6
70°	2333.4	2270.6	2200.9	2124.6	2050.9	1977.5	1899.0	1815.7	1727.7	1640.0	1550.5
67.5°	2836.9	2746.2	2645.7	2543.8	2450.0	2349.2	2241.5	2127.3	2022.0	1917.7	1808.7
65°	3471.2	3338.5	3191.6	3066.7	2933.0	2789.3	2636.2	2495.2	2360.7	2219.6	2076.0
62.5°	4259.6	4079.2	3898.0	3719.4	3526.0	3318.5	3117.7	2938.0	2748.7	2555.5	2392.8
60°	5170.8	4959.4	4738.7	4498.0	4237.6	3962.5	3719.4	3462.2	3191.6	2972.7	2746.2
57.5°	6116.5	5888.2	5631.7	5351.8	5049.5	4738.7	4414.0	4071.0	3759.8	3451.5	3143.2
55°	7030.4	6788.5	6516.3	6219.8	5897.2	5544.9	5170.8	4786.2	4395.5	3987.7	3639.5
52.5°	7852.1	7610.6	7344.5	7054.8	6715.0	6344.2	5950.0	5523.6	5076.9	4630.6	4174.5
50°	8585.4	8351.3	8093.7	7804.5	7467.2	7107.4	6697.1	6251.5	5779.4	5279.9	4772.9
47.5°	9251.7	9022.1	8769.8	8475.3	8150.8	7795.2	7386.2	6953.2	6454.4	5934.5	5382.1
45°	9861.0	9634.3	9382.0	9087.3	8771.5	8408.9	8018.1	7574.7	7096.5	6556.6	5986.4
42.5°	10395.3	10187.7	9937.5	9648.2	9330.9	8971.9	8583.5	8147.3	7669.7	7143.3	6556.6
40°	10861.4	10664.3	10421.5	10158.3	9839.6	9489.7	9093.6	8671.7	8190.6	7669.7	7096.5
37.5°	11273.3	11078.8	10847.8	10592.3	10292.5	9956.1	9565.8	9134.5	8671.7	8147.3	7574.7
35°	11633.3	11443.4	11227.1	10972.7	10691.3	10360.4	9995.2	9565.8	9093.6	8583.5	8018.1
32.5°	11936.4	11757.3	11559.5	11312.0	11035.9	10722.1	10360.4	9956.1	9489.7	8971.9	8408.9
30°	12199.7	12029.5	11833.1	11612.9	11340.6	11035.9	10691.3	10292.5	9839.6	9330.9	8771.5
27.5°	12415.5	12271.1	12076.2	11858.7	11612.9	11312.0	10972.7	10592.3	10158.3	9648.2	9087.3
25°	12591.1	12455.6	12290.4	12076.2	11833.1	11559.5	11227.1	10847.8	10421.5	9937.5	9382.0
22.5°	12733.8	12607.6	12455.6	12271.1	12029.5	11757.3	11443.4	11078.8	10664.3	10187.7	9634.3
20°	12843.8	12733.8	12591.1	12415.5	12199.7	11936.4	11633.3	11273.3	10861.4	10395.3	9861.0
17.5°	12915.6	12829.4	12703.4	12542.3	12336.9	12081.8	11784.4	11440.9	11039.1	10582.1	10064.7
15°	12965.1	12898.3	12786.8	12635.9	12447.1	12210.5	11918.8	11588.9	11190.6	10735.8	10220.6
12.5°	12981.1	12942.4	12857.6	12718.1	12538.3	12310.8	12025.0	11696.0	11308.9	10860.6	10351.1
10°	12990.4	12968.6	12899.0	12772.9	12601.7	12384.8	12110.9	11785.3	11407.1	10964.1	10459.1
7.5°	12982.3	12978.7	12926.4	12816.6	12652.1	12443.5	12178.8	11855.7	11484.5	11045.5	10544.0
5°	12976.3	12986.2	12946.5	12848.5	12688.8	12486.1	12228.0	11906.6	11540.3	11104.1	10605.1
2.5°	12972.6	12990.8	12958.8	12867.9	12711.0	12511.9	12257.7	11937.3	11574.0	11139.5	10641.9
0°	12971.3	12992.3	12962.9	12874.4	12718.5	12520.5	12267.7	11947.6	11585.3	11151.3	10654.2
-2.5°	12972.6	12990.8	12958.8	12867.9	12711.0	12511.9	12257.7	11937.3	11574.0	11139.5	10641.9
-5°	12976.3	12986.2	12946.5	12848.5	12688.8	12486.1	12228.0	11906.6	11540.3	11104.1	10605.1
-7.5°	12982.3	12978.7	12926.4	12816.6	12652.1	12443.5	12178.8	11855.7	11484.5	11045.5	10544.0
-10°	12990.4	12968.6	12899.0	12772.9	12601.7	12384.8	12110.9	11785.3	11407.1	10964.1	10459.1
-12.5°	12981.1	12942.4	12857.6	12718.1	12538.3	12310.8	12025.0	11696.0	11308.9	10860.6	10351.1
-15°	12965.1	12898.3	12786.8	12635.9	12447.1	12210.5	11918.8	11588.9	11190.6	10735.8	10220.6



REPORT NUMBER: P687831 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-E-PRO-3000K-LAM

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	12733.8	12607.6	12455.6	12271.1	12029.5	11757.3	11443.4	11078.8	10664.3	10187.7	9634.3
-25°	12591.1	12455.6	12290.4	12076.2	11833.1	11559.5	11227.1	10847.8	10421.5	9937.5	9382.0
-27.5°	12415.5	12271.1	12076.2	11858.7	11612.9	11312.0	10972.7	10592.3	10158.3	9648.2	9087.3
-30°	12199.7	12029.5	11833.1	11612.9	11340.6	11035.9	10691.3	10292.5	9839.6	9330.9	8771.5
-32.5°	11936.4	11757.3	11559.5	11312.0	11035.9	10722.1	10360.4	9956.1	9489.7	8971.9	8408.9
-35°	11633.3	11443.4	11227.1	10972.7	10691.3	10360.4	9995.2	9565.8	9093.6	8583.5	8018.1
-37.5°	11273.3	11078.8	10847.8	10592.3	10292.5	9956.1	9565.8	9134.5	8671.7	8147.3	7574.7
-40°	10861.4	10664.3	10421.5	10158.3	9839.6	9489.7	9093.6	8671.7	8190.6	7669.7	7096.5
-42.5°	10395.3	10187.7	9937.5	9648.2	9330.9	8971.9	8583.5	8147.3	7669.7	7143.3	6556.6
-45°	9861.0	9634.3	9382.0	9087.3	8771.5	8408.9	8018.1	7574.7	7096.5	6556.6	5986.4
-47.5°	9251.7	9022.1	8769.8	8475.3	8150.8	7795.2	7386.2	6953.2	6454.4	5934.5	5382.1
-50°	8585.4	8351.3	8093.7	7804.5	7467.2	7107.4	6697.1	6251.5	5779.4	5279.9	4772.9
-52.5°	7852.1	7610.6	7344.5	7054.8	6715.0	6344.2	5950.0	5523.6	5076.9	4630.6	4174.5
-55°	7030.4	6788.5	6516.3	6219.8	5897.2	5544.9	5170.8	4786.2	4395.5	3987.7	3639.5
-57.5°	6116.5	5888.2	5631.7	5351.8	5049.5	4738.7	4414.0	4071.0	3759.8	3451.5	3143.2
-60°	5170.8	4959.4	4738.7	4498.0	4237.6	3962.5	3719.4	3462.2	3191.6	2972.7	2746.2
-62.5°	4259.6	4079.2	3898.0	3719.4	3526.0	3318.5	3117.7	2938.0	2748.7	2555.5	2392.8
-65°	3471.2	3338.5	3191.6	3066.7	2933.0	2789.3	2636.2	2495.2	2360.7	2219.6	2076.0
-67.5°	2836.9	2746.2	2645.7	2543.8	2450.0	2349.2	2241.5	2127.3	2022.0	1917.7	1808.7
-70°	2333.4	2270.6	2200.9	2124.6	2050.9	1977.5	1899.0	1815.7	1727.7	1640.0	1550.5
-72.5°	1921.7	1876.8	1826.9	1772.2	1712.8	1652.6	1589.3	1522.2	1451.2	1376.6	1304.6
-75°	1562.4	1526.9	1487.6	1444.5	1397.6	1347.2	1300.2	1253.4	1203.9	1151.9	1097.4
-77.5°	1239.8	1215.8	1189.2	1160.0	1128.3	1094.1	1057.5	1017.9	974.5	928.8	880.9
-80°	955.2	935.0	912.7	888.1	861.4	832.6	801.8	769.1	734.4	699.2	663.5
-82.5°	662.6	648.5	632.9	615.8	597.1	577.0	555.5	532.6	508.4	482.9	456.2
-85°	391.2	383.4	374.6	365.0	354.6	343.3	331.2	318.4	304.8	290.5	275.5
-87.5°	162.3	159.5	156.5	153.2	149.6	145.6	141.5	137.0	132.3	127.3	122.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P687831 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-E-PRO-3000K-LAM

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	116.7	111.0	105.1	99.0	92.8	86.3	79.7	73.0	66.1	59.1	51.9
85°	259.8	243.5	226.5	209.0	191.0	172.5	159.3	145.8	132.0	118.0	103.7
82.5°	428.3	402.7	377.3	351.1	324.0	296.2	267.7	238.5	208.8	178.5	155.4
80°	626.2	587.5	547.3	505.8	463.0	419.4	381.4	342.6	303.0	262.7	221.7
77.5°	831.0	779.0	725.2	672.7	619.3	564.4	508.1	450.6	396.6	346.3	295.2
75°	1040.5	978.6	914.0	847.3	778.6	708.6	641.2	572.3	502.0	430.6	368.0
72.5°	1238.1	1169.1	1097.7	1023.5	943.4	861.2	777.0	692.7	611.0	527.8	443.5
70°	1457.3	1360.6	1273.5	1189.3	1102.6	1012.7	916.7	818.7	718.8	623.9	527.8
67.5°	1695.3	1586.4	1473.7	1357.6	1255.4	1155.5	1053.4	944.6	832.6	718.8	611.0
65°	1949.6	1818.6	1684.4	1555.4	1422.9	1295.3	1182.1	1066.6	944.6	818.7	692.7
62.5°	2223.8	2056.7	1907.8	1754.5	1604.7	1455.7	1308.6	1182.1	1053.4	916.7	777.0
60°	2524.6	2333.4	2136.2	1961.7	1790.3	1621.2	1455.7	1295.3	1155.5	1012.7	861.2
57.5°	2887.8	2623.9	2399.6	2180.2	1979.7	1790.3	1604.7	1422.9	1255.4	1102.6	943.4
55°	3280.2	2973.5	2680.7	2421.8	2180.2	1961.7	1754.5	1555.4	1357.6	1189.3	1023.5
52.5°	3753.3	3355.5	3002.1	2680.7	2399.6	2136.2	1907.8	1684.4	1473.7	1273.5	1097.7
50°	4268.5	3791.4	3355.5	2973.5	2623.9	2333.4	2056.7	1818.6	1586.4	1360.6	1169.1
47.5°	4820.6	4268.5	3753.3	3280.2	2887.8	2524.6	2223.8	1949.6	1695.3	1457.3	1238.1
45°	5382.1	4772.9	4174.5	3639.5	3143.2	2746.2	2392.8	2076.0	1808.7	1550.5	1304.6
42.5°	5934.5	5279.9	4630.6	3987.7	3451.5	2972.7	2555.5	2219.6	1917.7	1640.0	1376.6
40°	6454.4	5779.4	5076.9	4395.5	3759.8	3191.6	2748.7	2360.7	2022.0	1727.7	1451.2
37.5°	6953.2	6251.5	5523.6	4786.2	4071.0	3462.2	2938.0	2495.2	2127.3	1815.7	1522.2
35°	7386.2	6697.1	5950.0	5170.8	4414.0	3719.4	3117.7	2636.2	2241.5	1899.0	1589.3
32.5°	7795.2	7107.4	6344.2	5544.9	4738.7	3962.5	3318.5	2789.3	2349.2	1977.5	1652.6
30°	8150.8	7467.2	6715.0	5897.2	5049.5	4237.6	3526.0	2933.0	2450.0	2050.9	1712.8
27.5°	8475.3	7804.5	7054.8	6219.8	5351.8	4498.0	3719.4	3066.7	2543.8	2124.6	1772.2
25°	8769.8	8093.7	7344.5	6516.3	5631.7	4738.7	3898.0	3191.6	2645.7	2200.9	1826.9
22.5°	9022.1	8351.3	7610.6	6788.5	5888.2	4959.4	4079.2	3338.5	2746.2	2270.6	1876.8
20°	9251.7	8585.4	7852.1	7030.4	6116.5	5170.8	4259.6	3471.2	2836.9	2333.4	1921.7
17.5°	9454.7	8785.5	8048.9	7228.3	6317.7	5359.1	4420.2	3589.2	2917.5	2389.2	1961.7
15°	9620.0	8952.1	8217.8	7401.7	6493.6	5523.6	4560.5	3692.2	2987.9	2437.8	1996.5
12.5°	9761.6	9094.6	8362.1	7549.6	6643.7	5663.9	4679.9	3779.9	3047.7	2479.2	2026.0
10°	9878.7	9212.3	8481.3	7671.6	6767.4	5779.4	4778.3	3852.0	3096.9	2513.2	2050.4
7.5°	9970.5	9304.6	8574.5	7767.1	6864.1	5869.7	4855.1	3908.4	3135.3	2539.8	2069.3
5°	10036.6	9370.8	8641.5	7835.6	6933.4	5934.5	4910.1	3948.7	3162.8	2558.8	2082.9
2.5°	10076.4	9410.8	8681.8	7876.8	6975.2	5973.4	4943.3	3973.0	3179.4	2570.2	2091.1
0°	10089.7	9424.1	8695.3	7890.6	6989.1	5986.4	4954.3	3981.1	3184.9	2574.0	2093.8
-2.5°	10076.4	9410.8	8681.8	7876.8	6975.2	5973.4	4943.3	3973.0	3179.4	2570.2	2091.1
-5°	10036.6	9370.8	8641.5	7835.6	6933.4	5934.5	4910.1	3948.7	3162.8	2558.8	2082.9
-7.5°	9970.5	9304.6	8574.5	7767.1	6864.1	5869.7	4855.1	3908.4	3135.3	2539.8	2069.3
-10°	9878.7	9212.3	8481.3	7671.6	6767.4	5779.4	4778.3	3852.0	3096.9	2513.2	2050.4
-12.5°	9761.6	9094.6	8362.1	7549.6	6643.7	5663.9	4679.9	3779.9	3047.7	2479.2	2026.0
-15°	9620.0	8952.1	8217.8	7401.7	6493.6	5523.6	4560.5	3692.2	2987.9	2437.8	1996.5



REPORT NUMBER: P687831 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-E-PRO-3000K-LAM

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	9022.1	8351.3	7610.6	6788.5	5888.2	4959.4	4079.2	3338.5	2746.2	2270.6	1876.8
-25°	8769.8	8093.7	7344.5	6516.3	5631.7	4738.7	3898.0	3191.6	2645.7	2200.9	1826.9
-27.5°	8475.3	7804.5	7054.8	6219.8	5351.8	4498.0	3719.4	3066.7	2543.8	2124.6	1772.2
-30°	8150.8	7467.2	6715.0	5897.2	5049.5	4237.6	3526.0	2933.0	2450.0	2050.9	1712.8
-32.5°	7795.2	7107.4	6344.2	5544.9	4738.7	3962.5	3318.5	2789.3	2349.2	1977.5	1652.6
-35°	7386.2	6697.1	5950.0	5170.8	4414.0	3719.4	3117.7	2636.2	2241.5	1899.0	1589.3
-37.5°	6953.2	6251.5	5523.6	4786.2	4071.0	3462.2	2938.0	2495.2	2127.3	1815.7	1522.2
-40°	6454.4	5779.4	5076.9	4395.5	3759.8	3191.6	2748.7	2360.7	2022.0	1727.7	1451.2
-42.5°	5934.5	5279.9	4630.6	3987.7	3451.5	2972.7	2555.5	2219.6	1917.7	1640.0	1376.6
-45°	5382.1	4772.9	4174.5	3639.5	3143.2	2746.2	2392.8	2076.0	1808.7	1550.5	1304.6
-47.5°	4820.6	4268.5	3753.3	3280.2	2887.8	2524.6	2223.8	1949.6	1695.3	1457.3	1238.1
-50°	4268.5	3791.4	3355.5	2973.5	2623.9	2333.4	2056.7	1818.6	1586.4	1360.6	1169.1
-52.5°	3753.3	3355.5	3002.1	2680.7	2399.6	2136.2	1907.8	1684.4	1473.7	1273.5	1097.7
-55°	3280.2	2973.5	2680.7	2421.8	2180.2	1961.7	1754.5	1555.4	1357.6	1189.3	1023.5
-57.5°	2887.8	2623.9	2399.6	2180.2	1979.7	1790.3	1604.7	1422.9	1255.4	1102.6	943.4
-60°	2524.6	2333.4	2136.2	1961.7	1790.3	1621.2	1455.7	1295.3	1155.5	1012.7	861.2
-62.5°	2223.8	2056.7	1907.8	1754.5	1604.7	1455.7	1308.6	1182.1	1053.4	916.7	777.0
-65°	1949.6	1818.6	1684.4	1555.4	1422.9	1295.3	1182.1	1066.6	944.6	818.7	692.7
-67.5°	1695.3	1586.4	1473.7	1357.6	1255.4	1155.5	1053.4	944.6	832.6	718.8	611.0
-70°	1457.3	1360.6	1273.5	1189.3	1102.6	1012.7	916.7	818.7	718.8	623.9	527.8
-72.5°	1238.1	1169.1	1097.7	1023.5	943.4	861.2	777.0	692.7	611.0	527.8	443.5
-75°	1040.5	978.6	914.0	847.3	778.6	708.6	641.2	572.3	502.0	430.6	368.0
-77.5°	831.0	779.0	725.2	672.7	619.3	564.4	508.1	450.6	396.6	346.3	295.2
-80°	626.2	587.5	547.3	505.8	463.0	419.4	381.4	342.6	303.0	262.7	221.7
-82.5°	428.3	402.7	377.3	351.1	324.0	296.2	267.7	238.5	208.8	178.5	155.4
-85°	259.8	243.5	226.5	209.0	191.0	172.5	159.3	145.8	132.0	118.0	103.7
-87.5°	116.7	111.0	105.1	99.0	92.8	86.3	79.7	73.0	66.1	59.1	51.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P687831 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-E-PRO-3000K-LAM

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	44.7	37.4	30.0	22.5	15.0	7.5	0.0
85°	89.3	74.7	59.9	45.0	30.1	15.0	0.0
82.5°	133.7	111.8	89.7	67.4	45.0	22.5	0.0
80°	180.3	148.8	119.4	89.7	59.9	30.0	0.0
77.5°	243.4	191.1	148.8	111.8	74.7	37.4	0.0
75°	306.0	243.4	180.3	133.7	89.3	44.7	0.0
72.5°	368.0	295.2	221.7	155.4	103.7	51.9	0.0
70°	430.6	346.3	262.7	178.5	118.0	59.1	0.0
67.5°	502.0	396.6	303.0	208.8	132.0	66.1	0.0
65°	572.3	450.6	342.6	238.5	145.8	73.0	0.0
62.5°	641.2	508.1	381.4	267.7	159.3	79.7	0.0
60°	708.6	564.4	419.4	296.2	172.5	86.3	0.0
57.5°	778.6	619.3	463.0	324.0	191.0	92.8	0.0
55°	847.3	672.7	505.8	351.1	209.0	99.0	0.0
52.5°	914.0	725.2	547.3	377.3	226.5	105.1	0.0
50°	978.6	779.0	587.5	402.7	243.5	111.0	0.0
47.5°	1040.5	831.0	626.2	428.3	259.8	116.7	0.0
45°	1097.4	880.9	663.5	456.2	275.5	122.1	0.0
42.5°	1151.9	928.8	699.2	482.9	290.5	127.3	0.0
40°	1203.9	974.5	734.4	508.4	304.8	132.3	0.0
37.5°	1253.4	1017.9	769.1	532.6	318.4	137.0	0.0
35°	1300.2	1057.5	801.8	555.5	331.2	141.5	0.0
32.5°	1347.2	1094.1	832.6	577.0	343.3	145.6	0.0
30°	1397.6	1128.3	861.4	597.1	354.6	149.6	0.0
27.5°	1444.5	1160.0	888.1	615.8	365.0	153.2	0.0
25°	1487.6	1189.2	912.7	632.9	374.6	156.5	0.0
22.5°	1526.9	1215.8	935.0	648.5	383.4	159.5	0.0
20°	1562.4	1239.8	955.2	662.6	391.2	162.3	0.0
17.5°	1593.8	1261.0	973.1	675.0	398.2	164.7	0.0
15°	1621.2	1279.5	988.6	685.9	404.3	166.8	0.0
12.5°	1644.5	1295.3	1001.9	695.1	409.5	168.6	0.0
10°	1663.6	1308.2	1012.7	702.7	413.7	170.1	0.0
7.5°	1678.6	1318.3	1021.2	708.6	417.0	171.2	0.0
5°	1689.2	1325.5	1027.2	712.8	419.4	172.0	0.0
2.5°	1695.7	1329.9	1030.9	715.4	420.8	172.5	0.0
0°	1697.8	1331.3	1032.1	716.2	421.3	172.7	0.0
-2.5°	1695.7	1329.9	1030.9	715.4	420.8	172.5	0.0
-5°	1689.2	1325.5	1027.2	712.8	419.4	172.0	0.0
-7.5°	1678.6	1318.3	1021.2	708.6	417.0	171.2	0.0
-10°	1663.6	1308.2	1012.7	702.7	413.7	170.1	0.0
-12.5°	1644.5	1295.3	1001.9	695.1	409.5	168.6	0.0
-15°	1621.2	1279.5	988.6	685.9	404.3	166.8	0.0

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Cooper Lighting Solutions Photometric Lab
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REPORT NUMBER: P687831 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-E-PRO-3000K-LAM

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	1526.9	1215.8	935.0	648.5	383.4	159.5	0.0
-25°	1487.6	1189.2	912.7	632.9	374.6	156.5	0.0
-27.5°	1444.5	1160.0	888.1	615.8	365.0	153.2	0.0
-30°	1397.6	1128.3	861.4	597.1	354.6	149.6	0.0
-32.5°	1347.2	1094.1	832.6	577.0	343.3	145.6	0.0
-35°	1300.2	1057.5	801.8	555.5	331.2	141.5	0.0
-37.5°	1253.4	1017.9	769.1	532.6	318.4	137.0	0.0
-40°	1203.9	974.5	734.4	508.4	304.8	132.3	0.0
-42.5°	1151.9	928.8	699.2	482.9	290.5	127.3	0.0
-45°	1097.4	880.9	663.5	456.2	275.5	122.1	0.0
-47.5°	1040.5	831.0	626.2	428.3	259.8	116.7	0.0
-50°	978.6	779.0	587.5	402.7	243.5	111.0	0.0
-52.5°	914.0	725.2	547.3	377.3	226.5	105.1	0.0
-55°	847.3	672.7	505.8	351.1	209.0	99.0	0.0
-57.5°	778.6	619.3	463.0	324.0	191.0	92.8	0.0
-60°	708.6	564.4	419.4	296.2	172.5	86.3	0.0
-62.5°	641.2	508.1	381.4	267.7	159.3	79.7	0.0
-65°	572.3	450.6	342.6	238.5	145.8	73.0	0.0
-67.5°	502.0	396.6	303.0	208.8	132.0	66.1	0.0
-70°	430.6	346.3	262.7	178.5	118.0	59.1	0.0
-72.5°	368.0	295.2	221.7	155.4	103.7	51.9	0.0
-75°	306.0	243.4	180.3	133.7	89.3	44.7	0.0
-77.5°	243.4	191.1	148.8	111.8	74.7	37.4	0.0
-80°	180.3	148.8	119.4	89.7	59.9	30.0	0.0
-82.5°	133.7	111.8	89.7	67.4	45.0	22.5	0.0
-85°	89.3	74.7	59.9	45.0	30.1	15.0	0.0
-87.5°	44.7	37.4	30.0	22.5	15.0	7.5	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Horizontal Angle (degrees)

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Horizontal Angle (degrees)

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--- Horizontal Distribution through 0-Deg

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-17.5°	0.0	164.7	398.2	675.0	973.1	1261.0	1593.8	1961.7	2389.2	2917.5	3589.2
-20°	0.0	162.3	391.2	662.6	955.2	1239.8	1562.4	1921.7	2333.4	2836.9	3471.2

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-17.5°	4420.2	5359.1	6317.7	7228.3	8048.9	8785.5	9454.7	10064.7	10582.1	11039.1	11440.9
-20°	4259.6	5170.8	6116.5	7030.4	7852.1	8585.4	9251.7	9861.0	10395.3	10861.4	11273.3

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-17.5°	11784.4	12081.8	12336.9	12542.3	12703.4	12829.4	12915.6	12968.2	12987.7	12983.0	12972.0
-20°	11633.3	11936.4	12199.7	12415.5	12591.1	12733.8	12843.8	12915.6	12965.1	12981.1	12990.4

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-17.5°	12944.2	12922.2	12908.5	12903.9	12908.5	12922.2	12944.2	12972.0	12983.0	12987.7	12968.2
-20°	12982.3	12976.3	12972.6	12971.3	12972.6	12976.3	12982.3	12990.4	12981.1	12965.1	12915.6

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-17.5°	12915.6	12829.4	12703.4	12542.3	12336.9	12081.8	11784.4	11440.9	11039.1	10582.1	10064.7
-20°	12843.8	12733.8	12591.1	12415.5	12199.7	11936.4	11633.3	11273.3	10861.4	10395.3	9861.0

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-17.5°	9454.7	8785.5	8048.9	7228.3	6317.7	5359.1	4420.2	3589.2	2917.5	2389.2	1961.7
-20°	9251.7	8585.4	7852.1	7030.4	6116.5	5170.8	4259.6	3471.2	2836.9	2333.4	1921.7

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-17.5°	1593.8	1261.0	973.1	675.0	398.2	164.7	0.0
-20°	1562.4	1239.8	955.2	662.6	391.2	162.3	0.0

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Peachtree City, GA 30269

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(END OF REPORT)