

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: P687826 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-VN-04-E-PRO-4000K-LAM**

Issue Date: 5/17/2023



Test Information

Test Method: LM-79-08
Report Number: P687826 (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: EPHEBUS
Catalog Number: EPH-VN-04-E-PRO-4000K-LAM
Description: EPHEBUS LUMAVISION CCT TUNING FLOOD
3000K AND LAMBERTIAN OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31863 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')

NEMA Type: 7H x 7V
Max Intensity: 10345.8 candela
Max Intensity Angle: -22.5°H x 0°V

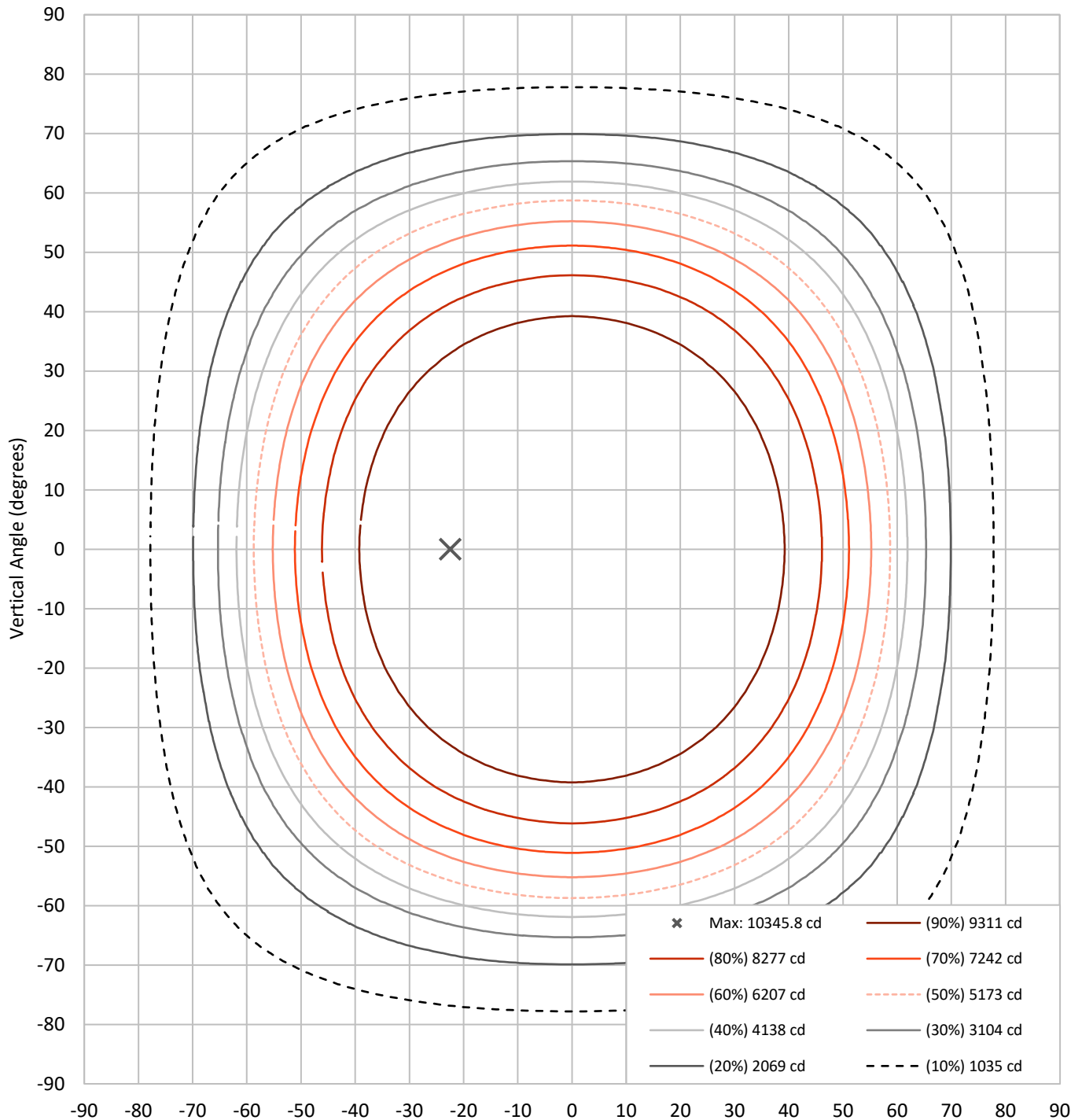
Beam Angle (50%): 117.5°H x 111.6°V
Beam Lumens: 26076.8 lumens
Beam Efficiency: 81.8%

Field Angle (10%): 155.5°H x 153.7°V
Field Lumens: 31251.8 lumens
Field Efficiency: 98.1%

Input Watts (W): 249.5
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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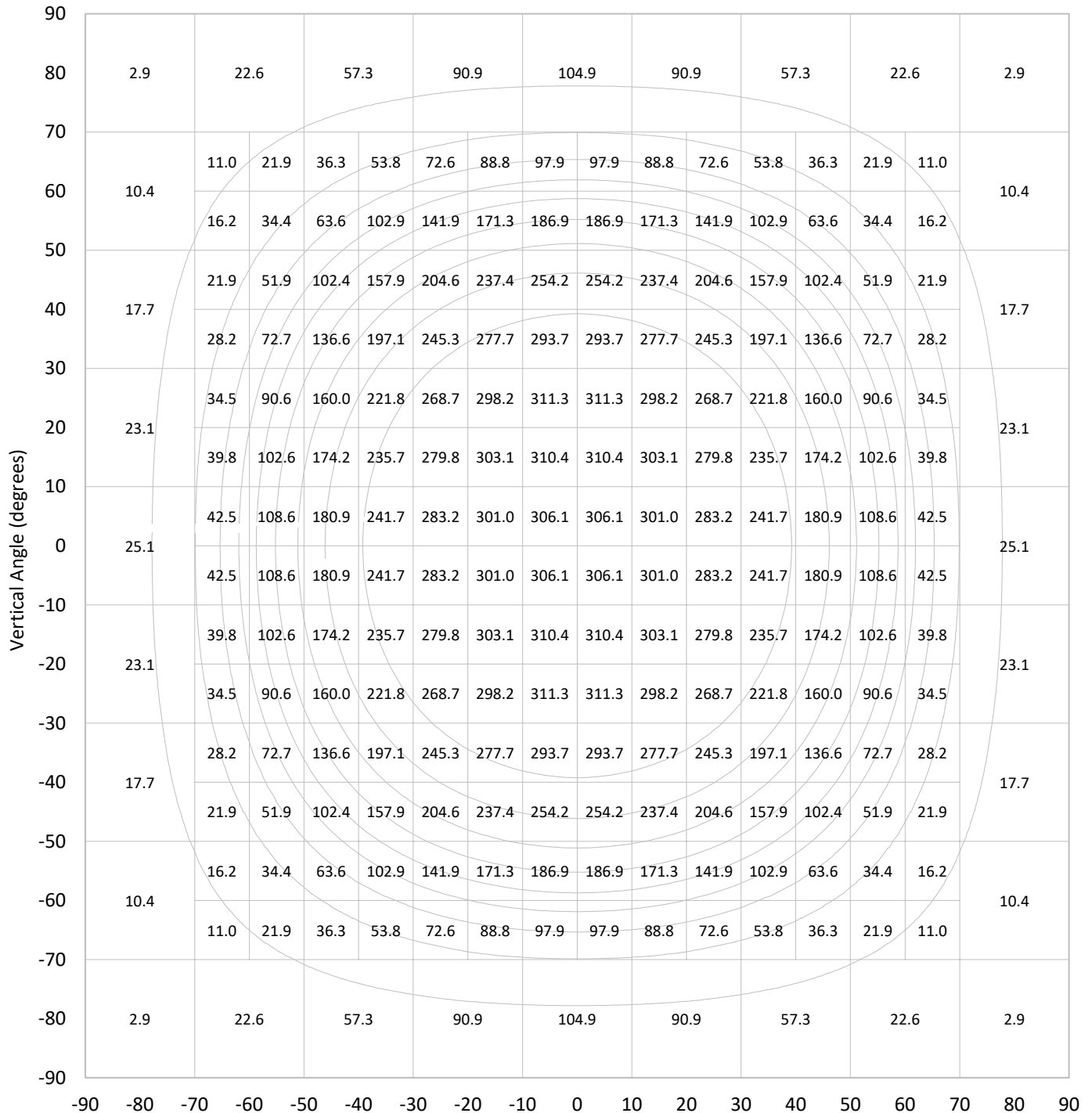
Iso-Candela Plot





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Lumen Table



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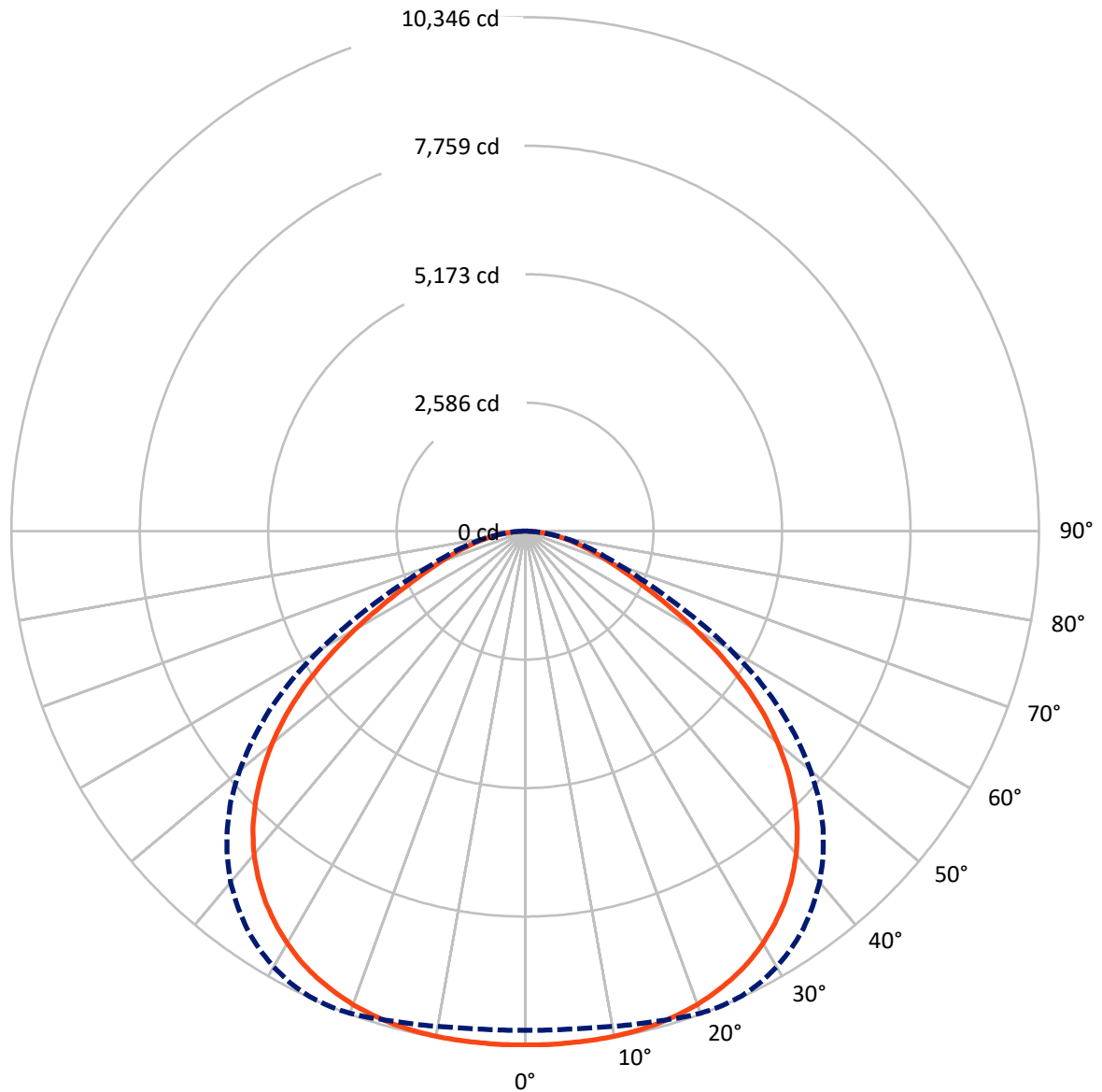
Scaled Data Report



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CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-LAM

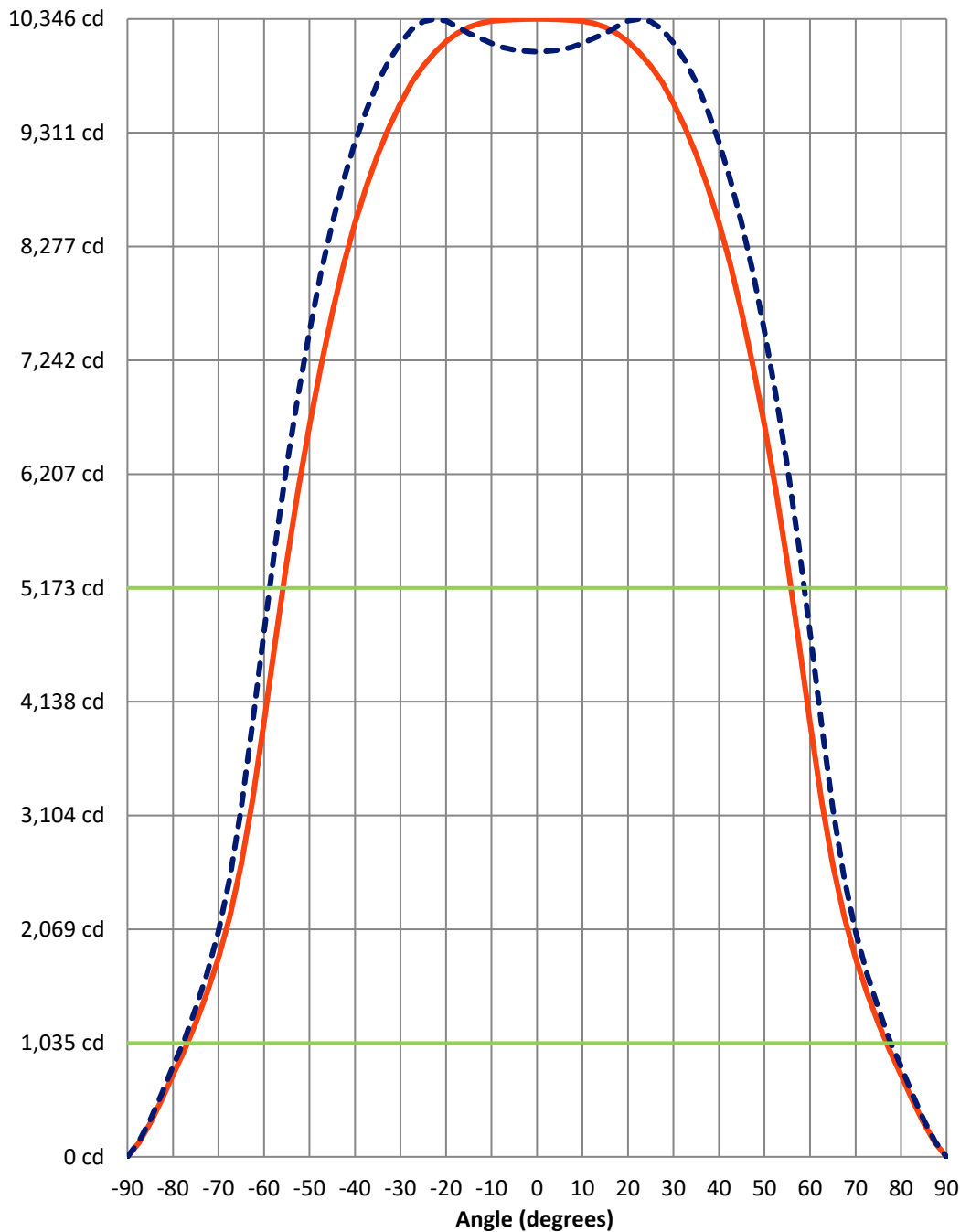
Luminous Intensity Polar Plot



— 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: 26076.8
 Efficiency: 81.8%

Field:
 H Angle: 155.5°
 V Angle: 153.7°
 Lumens: 31251.8
 Efficiency: 98.1%

Spill:
 Lumens: 611.2
 Efficiency: 1.9%

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



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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	6.0	12.0	17.9	23.9	29.8	35.6	41.3	47.0	52.6	58.1
85°	0.0	12.0	23.9	35.8	47.7	59.4	71.1	82.6	94.0	105.1	116.1
82.5°	0.0	17.9	35.8	53.7	71.4	89.0	106.5	123.7	142.1	166.3	189.9
80°	0.0	23.9	47.7	71.4	95.0	118.5	143.5	176.6	209.2	241.3	272.8
77.5°	0.0	29.8	59.4	89.0	118.5	152.2	193.8	235.1	275.7	315.8	358.8
75°	0.0	35.6	71.1	106.5	143.5	193.8	243.7	293.0	342.9	399.8	455.7
72.5°	0.0	41.3	82.6	123.7	176.6	235.1	293.0	353.2	420.3	486.5	551.6
70°	0.0	47.0	94.0	142.1	209.2	275.7	342.9	420.3	496.8	572.4	651.9
67.5°	0.0	52.6	105.1	166.3	241.3	315.8	399.8	486.5	572.4	663.0	752.2
65°	0.0	58.1	116.1	189.9	272.8	358.8	455.7	551.6	651.9	752.2	849.4
62.5°	0.0	63.5	126.9	213.2	303.7	404.6	510.5	618.7	730.0	838.8	941.3
60°	0.0	68.7	137.4	235.9	334.0	449.4	564.2	685.8	806.5	920.1	1031.4
57.5°	0.0	73.9	152.1	258.0	368.7	493.1	620.0	751.2	878.0	999.6	1133.0
55°	0.0	78.8	166.4	279.6	402.8	535.7	674.7	815.0	947.0	1081.1	1238.5
52.5°	0.0	83.7	180.4	300.5	435.8	577.5	727.8	874.1	1014.1	1173.5	1341.2
50°	0.0	88.4	193.9	320.7	467.8	620.3	779.3	931.0	1083.4	1263.2	1448.1
47.5°	0.0	92.9	206.8	341.0	498.7	661.7	828.6	985.9	1160.5	1349.9	1552.5
45°	0.0	97.2	219.3	363.3	528.3	701.5	873.9	1038.8	1234.6	1440.2	1653.1
42.5°	0.0	101.4	231.3	384.6	556.7	739.6	917.2	1096.2	1305.9	1527.0	1767.5
40°	0.0	105.3	242.7	404.9	584.8	776.0	958.7	1155.6	1375.7	1610.1	1879.8
37.5°	0.0	109.1	253.5	424.1	612.4	810.6	998.1	1212.1	1445.8	1693.9	1987.0
35°	0.0	112.6	263.7	442.4	638.5	842.1	1035.4	1265.5	1512.1	1784.9	2099.2
32.5°	0.0	116.0	273.4	459.5	663.0	871.2	1072.7	1315.9	1574.6	1870.6	2221.2
30°	0.0	119.1	282.3	475.5	686.0	898.5	1112.9	1363.9	1633.2	1951.0	2335.5
27.5°	0.0	122.0	290.7	490.3	707.2	923.7	1150.2	1411.2	1691.8	2025.7	2442.0
25°	0.0	124.6	298.3	504.0	726.8	947.0	1184.6	1454.7	1752.6	2106.8	2541.4
22.5°	0.0	127.0	305.3	516.4	744.6	968.1	1215.9	1494.4	1808.1	2186.8	2658.5
20°	0.0	129.2	311.6	527.6	760.6	987.2	1244.1	1530.3	1858.1	2259.0	2764.1
17.5°	0.0	131.1	317.1	537.5	774.9	1004.1	1269.1	1562.1	1902.5	2323.2	2858.1
15°	0.0	132.8	322.0	546.2	787.3	1018.9	1290.9	1589.8	1941.3	2379.2	2940.1
12.5°	0.0	134.2	326.1	553.5	797.8	1031.4	1309.5	1613.3	1974.2	2426.9	3010.0
10°	0.0	135.4	329.5	559.5	806.5	1041.7	1324.7	1632.7	2001.3	2466.0	3067.4
7.5°	0.0	136.3	332.1	564.2	813.2	1049.7	1336.6	1647.8	2022.4	2496.6	3112.3
5°	0.0	137.0	334.0	567.6	818.0	1055.5	1345.1	1658.6	2037.6	2518.5	3144.4
2.5°	0.0	137.4	335.1	569.6	820.9	1058.9	1350.2	1665.1	2046.7	2531.7	3163.8
0°	0.0	137.5	335.5	570.3	821.9	1060.1	1351.9	1667.3	2049.7	2536.1	3170.2
-2.5°	0.0	137.4	335.1	569.6	820.9	1058.9	1350.2	1665.1	2046.7	2531.7	3163.8
-5°	0.0	137.0	334.0	567.6	818.0	1055.5	1345.1	1658.6	2037.6	2518.5	3144.4
-7.5°	0.0	136.3	332.1	564.2	813.2	1049.7	1336.6	1647.8	2022.4	2496.6	3112.3
-10°	0.0	135.4	329.5	559.5	806.5	1041.7	1324.7	1632.7	2001.3	2466.0	3067.4
-12.5°	0.0	134.2	326.1	553.5	797.8	1031.4	1309.5	1613.3	1974.2	2426.9	3010.0
-15°	0.0	132.8	322.0	546.2	787.3	1018.9	1290.9	1589.8	1941.3	2379.2	2940.1

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Scaled Data Report



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CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-LAM

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	127.0	305.3	516.4	744.6	968.1	1215.9	1494.4	1808.1	2186.8	2658.5
-25°	0.0	124.6	298.3	504.0	726.8	947.0	1184.6	1454.7	1752.6	2106.8	2541.4
-27.5°	0.0	122.0	290.7	490.3	707.2	923.7	1150.2	1411.2	1691.8	2025.7	2442.0
-30°	0.0	119.1	282.3	475.5	686.0	898.5	1112.9	1363.9	1633.2	1951.0	2335.5
-32.5°	0.0	116.0	273.4	459.5	663.0	871.2	1072.7	1315.9	1574.6	1870.6	2221.2
-35°	0.0	112.6	263.7	442.4	638.5	842.1	1035.4	1265.5	1512.1	1784.9	2099.2
-37.5°	0.0	109.1	253.5	424.1	612.4	810.6	998.1	1212.1	1445.8	1693.9	1987.0
-40°	0.0	105.3	242.7	404.9	584.8	776.0	958.7	1155.6	1375.7	1610.1	1879.8
-42.5°	0.0	101.4	231.3	384.6	556.7	739.6	917.2	1096.2	1305.9	1527.0	1767.5
-45°	0.0	97.2	219.3	363.3	528.3	701.5	873.9	1038.8	1234.6	1440.2	1653.1
-47.5°	0.0	92.9	206.8	341.0	498.7	661.7	828.6	985.9	1160.5	1349.9	1552.5
-50°	0.0	88.4	193.9	320.7	467.8	620.3	779.3	931.0	1083.4	1263.2	1448.1
-52.5°	0.0	83.7	180.4	300.5	435.8	577.5	727.8	874.1	1014.1	1173.5	1341.2
-55°	0.0	78.8	166.4	279.6	402.8	535.7	674.7	815.0	947.0	1081.1	1238.5
-57.5°	0.0	73.9	152.1	258.0	368.7	493.1	620.0	751.2	878.0	999.6	1133.0
-60°	0.0	68.7	137.4	235.9	334.0	449.4	564.2	685.8	806.5	920.1	1031.4
-62.5°	0.0	63.5	126.9	213.2	303.7	404.6	510.5	618.7	730.0	838.8	941.3
-65°	0.0	58.1	116.1	189.9	272.8	358.8	455.7	551.6	651.9	752.2	849.4
-67.5°	0.0	52.6	105.1	166.3	241.3	315.8	399.8	486.5	572.4	663.0	752.2
-70°	0.0	47.0	94.0	142.1	209.2	275.7	342.9	420.3	496.8	572.4	651.9
-72.5°	0.0	41.3	82.6	123.7	176.6	235.1	293.0	353.2	420.3	486.5	551.6
-75°	0.0	35.6	71.1	106.5	143.5	193.8	243.7	293.0	342.9	399.8	455.7
-77.5°	0.0	29.8	59.4	89.0	118.5	152.2	193.8	235.1	275.7	315.8	358.8
-80°	0.0	23.9	47.7	71.4	95.0	118.5	143.5	176.6	209.2	241.3	272.8
-82.5°	0.0	17.9	35.8	53.7	71.4	89.0	106.5	123.7	142.1	166.3	189.9
-85°	0.0	12.0	23.9	35.8	47.7	59.4	71.1	82.6	94.0	105.1	116.1
-87.5°	0.0	6.0	12.0	17.9	23.9	29.8	35.6	41.3	47.0	52.6	58.1
-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: P687826 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-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°	63.5	68.7	73.9	78.8	83.7	88.4	92.9	97.2	101.4	105.3	109.1
85°	126.9	137.4	152.1	166.4	180.4	193.9	206.8	219.3	231.3	242.7	253.5
82.5°	213.2	235.9	258.0	279.6	300.5	320.7	341.0	363.3	384.6	404.9	424.1
80°	303.7	334.0	368.7	402.8	435.8	467.8	498.7	528.3	556.7	584.8	612.4
77.5°	404.6	449.4	493.1	535.7	577.5	620.3	661.7	701.5	739.6	776.0	810.6
75°	510.5	564.2	620.0	674.7	727.8	779.3	828.6	873.9	917.2	958.7	998.1
72.5°	618.7	685.8	751.2	815.0	874.1	931.0	985.9	1038.8	1096.2	1155.6	1212.1
70°	730.0	806.5	878.0	947.0	1014.1	1083.4	1160.5	1234.6	1305.9	1375.7	1445.8
67.5°	838.8	920.1	999.6	1081.1	1173.5	1263.2	1349.9	1440.2	1527.0	1610.1	1693.9
65°	941.3	1031.4	1133.0	1238.5	1341.2	1448.1	1552.5	1653.1	1767.5	1879.8	1987.0
62.5°	1042.1	1159.1	1277.8	1397.1	1519.1	1637.8	1770.8	1905.4	2034.9	2188.8	2339.5
60°	1159.1	1290.9	1425.6	1562.1	1701.1	1858.1	2010.3	2186.8	2367.2	2541.4	2756.9
57.5°	1277.8	1425.6	1576.4	1736.1	1910.8	2089.5	2299.6	2502.9	2748.4	2993.9	3241.8
55°	1397.1	1562.1	1736.1	1928.5	2134.7	2367.8	2612.0	2898.2	3175.4	3500.2	3811.2
52.5°	1519.1	1701.1	1910.8	2134.7	2390.6	2672.0	2988.8	3324.2	3687.3	4042.7	4398.5
50°	1637.8	1858.1	2089.5	2367.8	2672.0	3019.2	3399.0	3800.7	4204.4	4602.2	4978.1
47.5°	1770.8	2010.3	2299.6	2612.0	2988.8	3399.0	3838.6	4285.8	4725.6	5139.6	5536.8
45°	1905.4	2186.8	2502.9	2898.2	3324.2	3800.7	4285.8	4767.0	5221.1	5650.9	6031.7
42.5°	2034.9	2367.2	2748.4	3175.4	3687.3	4204.4	4725.6	5221.1	5688.2	6107.4	6487.7
40°	2188.8	2541.4	2993.9	3500.2	4042.7	4602.2	5139.6	5650.9	6107.4	6522.2	6905.3
37.5°	2339.5	2756.9	3241.8	3811.2	4398.5	4978.1	5536.8	6031.7	6487.7	6905.3	7273.8
35°	2482.6	2961.8	3514.9	4117.5	4738.0	5332.9	5881.7	6384.9	6835.1	7241.3	7617.3
32.5°	2642.5	3155.4	3773.4	4415.4	5051.9	5659.6	6207.3	6696.0	7144.3	7556.6	7928.1
30°	2807.8	3374.4	4020.9	4696.0	5347.2	5946.1	6490.5	6984.7	7430.2	7835.3	8196.0
27.5°	2961.8	3581.8	4261.7	4952.8	5617.7	6214.8	6748.9	7236.2	7682.9	8089.1	8434.7
25°	3104.0	3773.4	4484.6	5189.0	5848.4	6445.0	6983.4	7470.9	7913.3	8298.7	8638.2
22.5°	3248.3	3949.2	4688.8	5405.6	6060.3	6650.2	7184.3	7671.8	8112.5	8492.0	8822.2
20°	3392.0	4117.5	4870.6	5598.3	6252.6	6836.6	7367.1	7852.4	8277.8	8649.0	8977.0
17.5°	3519.8	4267.4	5030.8	5755.9	6409.4	6995.9	7528.8	8014.6	8426.6	8790.6	9110.5
15°	3631.5	4398.5	5170.9	5893.9	6543.9	7128.6	7660.4	8138.7	8549.0	8911.2	9228.2
12.5°	3726.7	4510.2	5290.4	6011.8	6658.8	7242.0	7773.2	8242.6	8648.4	9005.3	9313.6
10°	3804.9	4602.2	5388.8	6108.9	6753.7	7335.8	7866.4	8328.7	8730.8	9083.5	9384.6
7.5°	3866.1	4674.1	5465.8	6184.9	6827.9	7409.2	7939.6	8396.2	8795.6	9145.2	9440.7
5°	3909.9	4725.6	5521.1	6239.5	6881.3	7462.0	7992.2	8444.9	8842.3	9189.6	9481.2
2.5°	3936.3	4756.7	5554.3	6272.3	6913.4	7493.8	8023.9	8474.2	8870.5	9216.4	9505.7
0°	3945.1	4767.0	5565.4	6283.3	6924.1	7504.4	8034.5	8484.0	8879.9	9225.4	9513.9
-2.5°	3936.3	4756.7	5554.3	6272.3	6913.4	7493.8	8023.9	8474.2	8870.5	9216.4	9505.7
-5°	3909.9	4725.6	5521.1	6239.5	6881.3	7462.0	7992.2	8444.9	8842.3	9189.6	9481.2
-7.5°	3866.1	4674.1	5465.8	6184.9	6827.9	7409.2	7939.6	8396.2	8795.6	9145.2	9440.7
-10°	3804.9	4602.2	5388.8	6108.9	6753.7	7335.8	7866.4	8328.7	8730.8	9083.5	9384.6
-12.5°	3726.7	4510.2	5290.4	6011.8	6658.8	7242.0	7773.2	8242.6	8648.4	9005.3	9313.6
-15°	3631.5	4398.5	5170.9	5893.9	6543.9	7128.6	7660.4	8138.7	8549.0	8911.2	9228.2



REPORT NUMBER: P687826 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-LAM

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	3248.3	3949.2	4688.8	5405.6	6060.3	6650.2	7184.3	7671.8	8112.5	8492.0	8822.2
-25°	3104.0	3773.4	4484.6	5189.0	5848.4	6445.0	6983.4	7470.9	7913.3	8298.7	8638.2
-27.5°	2961.8	3581.8	4261.7	4952.8	5617.7	6214.8	6748.9	7236.2	7682.9	8089.1	8434.7
-30°	2807.8	3374.4	4020.9	4696.0	5347.2	5946.1	6490.5	6984.7	7430.2	7835.3	8196.0
-32.5°	2642.5	3155.4	3773.4	4415.4	5051.9	5659.6	6207.3	6696.0	7144.3	7556.6	7928.1
-35°	2482.6	2961.8	3514.9	4117.5	4738.0	5332.9	5881.7	6384.9	6835.1	7241.3	7617.3
-37.5°	2339.5	2756.9	3241.8	3811.2	4398.5	4978.1	5536.8	6031.7	6487.7	6905.3	7273.8
-40°	2188.8	2541.4	2993.9	3500.2	4042.7	4602.2	5139.6	5650.9	6107.4	6522.2	6905.3
-42.5°	2034.9	2367.2	2748.4	3175.4	3687.3	4204.4	4725.6	5221.1	5688.2	6107.4	6487.7
-45°	1905.4	2186.8	2502.9	2898.2	3324.2	3800.7	4285.8	4767.0	5221.1	5650.9	6031.7
-47.5°	1770.8	2010.3	2299.6	2612.0	2988.8	3399.0	3838.6	4285.8	4725.6	5139.6	5536.8
-50°	1637.8	1858.1	2089.5	2367.8	2672.0	3019.2	3399.0	3800.7	4204.4	4602.2	4978.1
-52.5°	1519.1	1701.1	1910.8	2134.7	2390.6	2672.0	2988.8	3324.2	3687.3	4042.7	4398.5
-55°	1397.1	1562.1	1736.1	1928.5	2134.7	2367.8	2612.0	2898.2	3175.4	3500.2	3811.2
-57.5°	1277.8	1425.6	1576.4	1736.1	1910.8	2089.5	2299.6	2502.9	2748.4	2993.9	3241.8
-60°	1159.1	1290.9	1425.6	1562.1	1701.1	1858.1	2010.3	2186.8	2367.2	2541.4	2756.9
-62.5°	1042.1	1159.1	1277.8	1397.1	1519.1	1637.8	1770.8	1905.4	2034.9	2188.8	2339.5
-65°	941.3	1031.4	1133.0	1238.5	1341.2	1448.1	1552.5	1653.1	1767.5	1879.8	1987.0
-67.5°	838.8	920.1	999.6	1081.1	1173.5	1263.2	1349.9	1440.2	1527.0	1610.1	1693.9
-70°	730.0	806.5	878.0	947.0	1014.1	1083.4	1160.5	1234.6	1305.9	1375.7	1445.8
-72.5°	618.7	685.8	751.2	815.0	874.1	931.0	985.9	1038.8	1096.2	1155.6	1212.1
-75°	510.5	564.2	620.0	674.7	727.8	779.3	828.6	873.9	917.2	958.7	998.1
-77.5°	404.6	449.4	493.1	535.7	577.5	620.3	661.7	701.5	739.6	776.0	810.6
-80°	303.7	334.0	368.7	402.8	435.8	467.8	498.7	528.3	556.7	584.8	612.4
-82.5°	213.2	235.9	258.0	279.6	300.5	320.7	341.0	363.3	384.6	404.9	424.1
-85°	126.9	137.4	152.1	166.4	180.4	193.9	206.8	219.3	231.3	242.7	253.5
-87.5°	63.5	68.7	73.9	78.8	83.7	88.4	92.9	97.2	101.4	105.3	109.1
-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: P687826 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-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°	112.6	116.0	119.1	122.0	124.6	127.0	129.2	131.1	132.8	134.2	135.4
85°	263.7	273.4	282.3	290.7	298.3	305.3	311.6	317.1	322.0	326.1	329.5
82.5°	442.4	459.5	475.5	490.3	504.0	516.4	527.6	537.5	546.2	553.5	559.5
80°	638.5	663.0	686.0	707.2	726.8	744.6	760.6	774.9	787.3	797.8	806.5
77.5°	842.1	871.2	898.5	923.7	947.0	968.1	987.2	1004.1	1018.9	1031.4	1041.7
75°	1035.4	1072.7	1112.9	1150.2	1184.6	1215.9	1244.1	1269.1	1290.9	1309.5	1324.7
72.5°	1265.5	1315.9	1363.9	1411.2	1454.7	1494.4	1530.3	1562.1	1589.8	1613.3	1632.7
70°	1512.1	1574.6	1633.2	1691.8	1752.6	1808.1	1858.1	1902.5	1941.3	1974.2	2001.3
67.5°	1784.9	1870.6	1951.0	2025.7	2106.8	2186.8	2259.0	2323.2	2379.2	2426.9	2466.0
65°	2099.2	2221.2	2335.5	2442.0	2541.4	2658.5	2764.1	2858.1	2940.1	3010.0	3067.4
62.5°	2482.6	2642.5	2807.8	2961.8	3104.0	3248.3	3392.0	3519.8	3631.5	3726.7	3804.9
60°	2961.8	3155.4	3374.4	3581.8	3773.4	3949.2	4117.5	4267.4	4398.5	4510.2	4602.2
57.5°	3514.9	3773.4	4020.9	4261.7	4484.6	4688.8	4870.6	5030.8	5170.9	5290.4	5388.8
55°	4117.5	4415.4	4696.0	4952.8	5189.0	5405.6	5598.3	5755.9	5893.9	6011.8	6108.9
52.5°	4738.0	5051.9	5347.2	5617.7	5848.4	6060.3	6252.6	6409.4	6543.9	6658.8	6753.7
50°	5332.9	5659.6	5946.1	6214.8	6445.0	6650.2	6836.6	6995.9	7128.6	7242.0	7335.8
47.5°	5881.7	6207.3	6490.5	6748.9	6983.4	7184.3	7367.1	7528.8	7660.4	7773.2	7866.4
45°	6384.9	6696.0	6984.7	7236.2	7470.9	7671.8	7852.4	8014.6	8138.7	8242.6	8328.7
42.5°	6835.1	7144.3	7430.2	7682.9	7913.3	8112.5	8277.8	8426.6	8549.0	8648.4	8730.8
40°	7241.3	7556.6	7835.3	8089.1	8298.7	8492.0	8649.0	8790.6	8911.2	9005.3	9083.5
37.5°	7617.3	7928.1	8196.0	8434.7	8638.2	8822.2	8977.0	9110.5	9228.2	9313.6	9384.6
35°	7959.2	8250.0	8513.6	8737.7	8940.2	9112.5	9263.7	9384.0	9491.0	9575.6	9643.9
32.5°	8250.0	8538.1	8788.0	9007.8	9204.8	9362.3	9505.0	9620.8	9723.2	9803.1	9862.1
30°	8513.6	8788.0	9030.6	9247.3	9422.7	9579.1	9714.6	9823.9	9911.6	9984.3	10034.8
27.5°	8737.7	9007.8	9247.3	9443.1	9616.3	9771.5	9886.5	9987.4	10062.1	10127.5	10171.1
25°	8940.2	9204.8	9422.7	9616.3	9786.9	9918.4	10026.3	10115.8	10182.2	10238.5	10271.5
22.5°	9112.5	9362.3	9579.1	9771.5	9918.4	10039.5	10140.0	10216.0	10271.0	10306.0	10326.9
20°	9263.7	9505.0	9714.6	9886.5	10026.3	10140.0	10227.5	10284.7	10324.1	10336.9	10344.3
17.5°	9384.0	9620.8	9823.9	9987.4	10115.8	10216.0	10284.7	10326.6	10342.1	10338.4	10329.6
15°	9491.0	9723.2	9911.6	10062.1	10182.2	10271.0	10324.1	10342.1	10336.4	10316.9	10285.4
12.5°	9575.6	9803.1	9984.3	10127.5	10238.5	10306.0	10336.9	10338.4	10316.9	10277.7	10238.1
10°	9643.9	9862.1	10034.8	10171.1	10271.5	10326.9	10344.3	10329.6	10285.4	10238.1	10199.4
7.5°	9698.0	9908.8	10074.9	10205.9	10293.3	10335.0	10337.8	10307.5	10256.8	10207.1	10171.0
5°	9737.2	9942.7	10104.1	10231.3	10309.3	10340.9	10333.0	10290.0	10234.2	10187.9	10146.4
2.5°	9760.9	9963.2	10121.9	10246.7	10319.1	10344.6	10330.1	10279.1	10219.9	10175.6	10130.1
0°	9768.8	9970.1	10127.8	10251.9	10322.4	10345.8	10329.1	10275.4	10215.0	10171.4	10124.4
-2.5°	9760.9	9963.2	10121.9	10246.7	10319.1	10344.6	10330.1	10279.1	10219.9	10175.6	10130.1
-5°	9737.2	9942.7	10104.1	10231.3	10309.3	10340.9	10333.0	10290.0	10234.2	10187.9	10146.4
-7.5°	9698.0	9908.8	10074.9	10205.9	10293.3	10335.0	10337.8	10307.5	10256.8	10207.1	10171.0
-10°	9643.9	9862.1	10034.8	10171.1	10271.5	10326.9	10344.3	10329.6	10285.4	10238.1	10199.4
-12.5°	9575.6	9803.1	9984.3	10127.5	10238.5	10306.0	10336.9	10338.4	10316.9	10277.7	10238.1
-15°	9491.0	9723.2	9911.6	10062.1	10182.2	10271.0	10324.1	10342.1	10336.4	10316.9	10285.4



REPORT NUMBER: P687826 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-LAM

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	9112.5	9362.3	9579.1	9771.5	9918.4	10039.5	10140.0	10216.0	10271.0	10306.0	10326.9
-25°	8940.2	9204.8	9422.7	9616.3	9786.9	9918.4	10026.3	10115.8	10182.2	10238.5	10271.5
-27.5°	8737.7	9007.8	9247.3	9443.1	9616.3	9771.5	9886.5	9987.4	10062.1	10127.5	10171.1
-30°	8513.6	8788.0	9030.6	9247.3	9422.7	9579.1	9714.6	9823.9	9911.6	9984.3	10034.8
-32.5°	8250.0	8538.1	8788.0	9007.8	9204.8	9362.3	9505.0	9620.8	9723.2	9803.1	9862.1
-35°	7959.2	8250.0	8513.6	8737.7	8940.2	9112.5	9263.7	9384.0	9491.0	9575.6	9643.9
-37.5°	7617.3	7928.1	8196.0	8434.7	8638.2	8822.2	8977.0	9110.5	9228.2	9313.6	9384.6
-40°	7241.3	7556.6	7835.3	8089.1	8298.7	8492.0	8649.0	8790.6	8911.2	9005.3	9083.5
-42.5°	6835.1	7144.3	7430.2	7682.9	7913.3	8112.5	8277.8	8426.6	8549.0	8648.4	8730.8
-45°	6384.9	6696.0	6984.7	7236.2	7470.9	7671.8	7852.4	8014.6	8138.7	8242.6	8328.7
-47.5°	5881.7	6207.3	6490.5	6748.9	6983.4	7184.3	7367.1	7528.8	7660.4	7773.2	7866.4
-50°	5332.9	5659.6	5946.1	6214.8	6445.0	6650.2	6836.6	6995.9	7128.6	7242.0	7335.8
-52.5°	4738.0	5051.9	5347.2	5617.7	5848.4	6060.3	6252.6	6409.4	6543.9	6658.8	6753.7
-55°	4117.5	4415.4	4696.0	4952.8	5189.0	5405.6	5598.3	5755.9	5893.9	6011.8	6108.9
-57.5°	3514.9	3773.4	4020.9	4261.7	4484.6	4688.8	4870.6	5030.8	5170.9	5290.4	5388.8
-60°	2961.8	3155.4	3374.4	3581.8	3773.4	3949.2	4117.5	4267.4	4398.5	4510.2	4602.2
-62.5°	2482.6	2642.5	2807.8	2961.8	3104.0	3248.3	3392.0	3519.8	3631.5	3726.7	3804.9
-65°	2099.2	2221.2	2335.5	2442.0	2541.4	2658.5	2764.1	2858.1	2940.1	3010.0	3067.4
-67.5°	1784.9	1870.6	1951.0	2025.7	2106.8	2186.8	2259.0	2323.2	2379.2	2426.9	2466.0
-70°	1512.1	1574.6	1633.2	1691.8	1752.6	1808.1	1858.1	1902.5	1941.3	1974.2	2001.3
-72.5°	1265.5	1315.9	1363.9	1411.2	1454.7	1494.4	1530.3	1562.1	1589.8	1613.3	1632.7
-75°	1035.4	1072.7	1112.9	1150.2	1184.6	1215.9	1244.1	1269.1	1290.9	1309.5	1324.7
-77.5°	842.1	871.2	898.5	923.7	947.0	968.1	987.2	1004.1	1018.9	1031.4	1041.7
-80°	638.5	663.0	686.0	707.2	726.8	744.6	760.6	774.9	787.3	797.8	806.5
-82.5°	442.4	459.5	475.5	490.3	504.0	516.4	527.6	537.5	546.2	553.5	559.5
-85°	263.7	273.4	282.3	290.7	298.3	305.3	311.6	317.1	322.0	326.1	329.5
-87.5°	112.6	116.0	119.1	122.0	124.6	127.0	129.2	131.1	132.8	134.2	135.4
-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: P687826 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-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°	136.3	137.0	137.4	137.5	137.4	137.0	136.3	135.4	134.2	132.8	131.1
85°	332.1	334.0	335.1	335.5	335.1	334.0	332.1	329.5	326.1	322.0	317.1
82.5°	564.2	567.6	569.6	570.3	569.6	567.6	564.2	559.5	553.5	546.2	537.5
80°	813.2	818.0	820.9	821.9	820.9	818.0	813.2	806.5	797.8	787.3	774.9
77.5°	1049.7	1055.5	1058.9	1060.1	1058.9	1055.5	1049.7	1041.7	1031.4	1018.9	1004.1
75°	1336.6	1345.1	1350.2	1351.9	1350.2	1345.1	1336.6	1324.7	1309.5	1290.9	1269.1
72.5°	1647.8	1658.6	1665.1	1667.3	1665.1	1658.6	1647.8	1632.7	1613.3	1589.8	1562.1
70°	2022.4	2037.6	2046.7	2049.7	2046.7	2037.6	2022.4	2001.3	1974.2	1941.3	1902.5
67.5°	2496.6	2518.5	2531.7	2536.1	2531.7	2518.5	2496.6	2466.0	2426.9	2379.2	2323.2
65°	3112.3	3144.4	3163.8	3170.2	3163.8	3144.4	3112.3	3067.4	3010.0	2940.1	2858.1
62.5°	3866.1	3909.9	3936.3	3945.1	3936.3	3909.9	3866.1	3804.9	3726.7	3631.5	3519.8
60°	4674.1	4725.6	4756.7	4767.0	4756.7	4725.6	4674.1	4602.2	4510.2	4398.5	4267.4
57.5°	5465.8	5521.1	5554.3	5565.4	5554.3	5521.1	5465.8	5388.8	5290.4	5170.9	5030.8
55°	6184.9	6239.5	6272.3	6283.3	6272.3	6239.5	6184.9	6108.9	6011.8	5893.9	5755.9
52.5°	6827.9	6881.3	6913.4	6924.1	6913.4	6881.3	6827.9	6753.7	6658.8	6543.9	6409.4
50°	7409.2	7462.0	7493.8	7504.4	7493.8	7462.0	7409.2	7335.8	7242.0	7128.6	6995.9
47.5°	7939.6	7992.2	8023.9	8034.5	8023.9	7992.2	7939.6	7866.4	7773.2	7660.4	7528.8
45°	8396.2	8444.9	8474.2	8484.0	8474.2	8444.9	8396.2	8328.7	8242.6	8138.7	8014.6
42.5°	8795.6	8842.3	8870.5	8879.9	8870.5	8842.3	8795.6	8730.8	8648.4	8549.0	8426.6
40°	9145.2	9189.6	9216.4	9225.4	9216.4	9189.6	9145.2	9083.5	9005.3	8911.2	8790.6
37.5°	9440.7	9481.2	9505.7	9513.9	9505.7	9481.2	9440.7	9384.6	9313.6	9228.2	9110.5
35°	9698.0	9737.2	9760.9	9768.8	9760.9	9737.2	9698.0	9643.9	9575.6	9491.0	9384.0
32.5°	9908.8	9942.7	9963.2	9970.1	9963.2	9942.7	9908.8	9862.1	9803.1	9723.2	9620.8
30°	10074.9	10104.1	10121.9	10127.8	10121.9	10104.1	10074.9	10034.8	9984.3	9911.6	9823.9
27.5°	10205.9	10231.3	10246.7	10251.9	10246.7	10231.3	10205.9	10171.1	10127.5	10062.1	9987.4
25°	10293.3	10309.3	10319.1	10322.4	10319.1	10309.3	10293.3	10271.5	10238.5	10182.2	10115.8
22.5°	10335.0	10340.9	10344.6	10345.8	10344.6	10340.9	10335.0	10326.9	10306.0	10271.0	10216.0
20°	10337.8	10333.0	10330.1	10329.1	10330.1	10333.0	10337.8	10344.3	10336.9	10324.1	10284.7
17.5°	10307.5	10290.0	10279.1	10275.4	10279.1	10290.0	10307.5	10329.6	10338.4	10342.1	10326.6
15°	10256.8	10234.2	10219.9	10215.0	10219.9	10234.2	10256.8	10285.4	10316.9	10336.4	10342.1
12.5°	10207.1	10187.9	10175.6	10171.4	10175.6	10187.9	10207.1	10238.1	10277.7	10316.9	10338.4
10°	10171.0	10146.4	10130.1	10124.4	10130.1	10146.4	10171.0	10199.4	10238.1	10285.4	10329.6
7.5°	10135.5	10109.7	10093.5	10087.5	10093.5	10109.7	10135.5	10171.0	10207.1	10256.8	10307.5
5°	10109.7	10083.4	10069.6	10064.1	10069.6	10083.4	10109.7	10146.4	10187.9	10234.2	10290.0
2.5°	10093.5	10069.6	10058.2	10054.0	10058.2	10069.6	10093.5	10130.1	10175.6	10219.9	10279.1
0°	10087.5	10064.1	10054.0	10047.3	10054.0	10064.1	10087.5	10124.4	10171.4	10215.0	10275.4
-2.5°	10093.5	10069.6	10058.2	10054.0	10058.2	10069.6	10093.5	10130.1	10175.6	10219.9	10279.1
-5°	10109.7	10083.4	10069.6	10064.1	10069.6	10083.4	10109.7	10146.4	10187.9	10234.2	10290.0
-7.5°	10135.5	10109.7	10093.5	10087.5	10093.5	10109.7	10135.5	10171.0	10207.1	10256.8	10307.5
-10°	10171.0	10146.4	10130.1	10124.4	10130.1	10146.4	10171.0	10199.4	10238.1	10285.4	10329.6
-12.5°	10207.1	10187.9	10175.6	10171.4	10175.6	10187.9	10207.1	10238.1	10277.7	10316.9	10338.4
-15°	10256.8	10234.2	10219.9	10215.0	10219.9	10234.2	10256.8	10285.4	10316.9	10336.4	10342.1



REPORT NUMBER: P687826 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-LAM

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	10335.0	10340.9	10344.6	10345.8	10344.6	10340.9	10335.0	10326.9	10306.0	10271.0	10216.0
-25°	10293.3	10309.3	10319.1	10322.4	10319.1	10309.3	10293.3	10271.5	10238.5	10182.2	10115.8
-27.5°	10205.9	10231.3	10246.7	10251.9	10246.7	10231.3	10205.9	10171.1	10127.5	10062.1	9987.4
-30°	10074.9	10104.1	10121.9	10127.8	10121.9	10104.1	10074.9	10034.8	9984.3	9911.6	9823.9
-32.5°	9908.8	9942.7	9963.2	9970.1	9963.2	9942.7	9908.8	9862.1	9803.1	9723.2	9620.8
-35°	9698.0	9737.2	9760.9	9768.8	9760.9	9737.2	9698.0	9643.9	9575.6	9491.0	9384.0
-37.5°	9440.7	9481.2	9505.7	9513.9	9505.7	9481.2	9440.7	9384.6	9313.6	9228.2	9110.5
-40°	9145.2	9189.6	9216.4	9225.4	9216.4	9189.6	9145.2	9083.5	9005.3	8911.2	8790.6
-42.5°	8795.6	8842.3	8870.5	8879.9	8870.5	8842.3	8795.6	8730.8	8648.4	8549.0	8426.6
-45°	8396.2	8444.9	8474.2	8484.0	8474.2	8444.9	8396.2	8328.7	8242.6	8138.7	8014.6
-47.5°	7939.6	7992.2	8023.9	8034.5	8023.9	7992.2	7939.6	7866.4	7773.2	7660.4	7528.8
-50°	7409.2	7462.0	7493.8	7504.4	7493.8	7462.0	7409.2	7335.8	7242.0	7128.6	6995.9
-52.5°	6827.9	6881.3	6913.4	6924.1	6913.4	6881.3	6827.9	6753.7	6658.8	6543.9	6409.4
-55°	6184.9	6239.5	6272.3	6283.3	6272.3	6239.5	6184.9	6108.9	6011.8	5893.9	5755.9
-57.5°	5465.8	5521.1	5554.3	5565.4	5554.3	5521.1	5465.8	5388.8	5290.4	5170.9	5030.8
-60°	4674.1	4725.6	4756.7	4767.0	4756.7	4725.6	4674.1	4602.2	4510.2	4398.5	4267.4
-62.5°	3866.1	3909.9	3936.3	3945.1	3936.3	3909.9	3866.1	3804.9	3726.7	3631.5	3519.8
-65°	3112.3	3144.4	3163.8	3170.2	3163.8	3144.4	3112.3	3067.4	3010.0	2940.1	2858.1
-67.5°	2496.6	2518.5	2531.7	2536.1	2531.7	2518.5	2496.6	2466.0	2426.9	2379.2	2323.2
-70°	2022.4	2037.6	2046.7	2049.7	2046.7	2037.6	2022.4	2001.3	1974.2	1941.3	1902.5
-72.5°	1647.8	1658.6	1665.1	1667.3	1665.1	1658.6	1647.8	1632.7	1613.3	1589.8	1562.1
-75°	1336.6	1345.1	1350.2	1351.9	1350.2	1345.1	1336.6	1324.7	1309.5	1290.9	1269.1
-77.5°	1049.7	1055.5	1058.9	1060.1	1058.9	1055.5	1049.7	1041.7	1031.4	1018.9	1004.1
-80°	813.2	818.0	820.9	821.9	820.9	818.0	813.2	806.5	797.8	787.3	774.9
-82.5°	564.2	567.6	569.6	570.3	569.6	567.6	564.2	559.5	553.5	546.2	537.5
-85°	332.1	334.0	335.1	335.5	335.1	334.0	332.1	329.5	326.1	322.0	317.1
-87.5°	136.3	137.0	137.4	137.5	137.4	137.0	136.3	135.4	134.2	132.8	131.1
-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: P687826 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-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°	129.2	127.0	124.6	122.0	119.1	116.0	112.6	109.1	105.3	101.4	97.2
85°	311.6	305.3	298.3	290.7	282.3	273.4	263.7	253.5	242.7	231.3	219.3
82.5°	527.6	516.4	504.0	490.3	475.5	459.5	442.4	424.1	404.9	384.6	363.3
80°	760.6	744.6	726.8	707.2	686.0	663.0	638.5	612.4	584.8	556.7	528.3
77.5°	987.2	968.1	947.0	923.7	898.5	871.2	842.1	810.6	776.0	739.6	701.5
75°	1244.1	1215.9	1184.6	1150.2	1112.9	1072.7	1035.4	998.1	958.7	917.2	873.9
72.5°	1530.3	1494.4	1454.7	1411.2	1363.9	1315.9	1265.5	1212.1	1155.6	1096.2	1038.8
70°	1858.1	1808.1	1752.6	1691.8	1633.2	1574.6	1512.1	1445.8	1375.7	1305.9	1234.6
67.5°	2259.0	2186.8	2106.8	2025.7	1951.0	1870.6	1784.9	1693.9	1610.1	1527.0	1440.2
65°	2764.1	2658.5	2541.4	2442.0	2335.5	2221.2	2099.2	1987.0	1879.8	1767.5	1653.1
62.5°	3392.0	3248.3	3104.0	2961.8	2807.8	2642.5	2482.6	2339.5	2188.8	2034.9	1905.4
60°	4117.5	3949.2	3773.4	3581.8	3374.4	3155.4	2961.8	2756.9	2541.4	2367.2	2186.8
57.5°	4870.6	4688.8	4484.6	4261.7	4020.9	3773.4	3514.9	3241.8	2993.9	2748.4	2502.9
55°	5598.3	5405.6	5189.0	4952.8	4696.0	4415.4	4117.5	3811.2	3500.2	3175.4	2898.2
52.5°	6252.6	6060.3	5848.4	5617.7	5347.2	5051.9	4738.0	4398.5	4042.7	3687.3	3324.2
50°	6836.6	6650.2	6445.0	6214.8	5946.1	5659.6	5332.9	4978.1	4602.2	4204.4	3800.7
47.5°	7367.1	7184.3	6983.4	6748.9	6490.5	6207.3	5881.7	5536.8	5139.6	4725.6	4285.8
45°	7852.4	7671.8	7470.9	7236.2	6984.7	6696.0	6384.9	6031.7	5650.9	5221.1	4767.0
42.5°	8277.8	8112.5	7913.3	7682.9	7430.2	7144.3	6835.1	6487.7	6107.4	5688.2	5221.1
40°	8649.0	8492.0	8298.7	8089.1	7835.3	7556.6	7241.3	6905.3	6522.2	6107.4	5650.9
37.5°	8977.0	8822.2	8638.2	8434.7	8196.0	7928.1	7617.3	7273.8	6905.3	6487.7	6031.7
35°	9263.7	9112.5	8940.2	8737.7	8513.6	8250.0	7959.2	7617.3	7241.3	6835.1	6384.9
32.5°	9505.0	9362.3	9204.8	9007.8	8788.0	8538.1	8250.0	7928.1	7556.6	7144.3	6696.0
30°	9714.6	9579.1	9422.7	9247.3	9030.6	8788.0	8513.6	8196.0	7835.3	7430.2	6984.7
27.5°	9886.5	9771.5	9616.3	9443.1	9247.3	9007.8	8737.7	8434.7	8089.1	7682.9	7236.2
25°	10026.3	9918.4	9786.9	9616.3	9422.7	9204.8	8940.2	8638.2	8298.7	7913.3	7470.9
22.5°	10140.0	10039.5	9918.4	9771.5	9579.1	9362.3	9112.5	8822.2	8492.0	8112.5	7671.8
20°	10227.5	10140.0	10026.3	9886.5	9714.6	9505.0	9263.7	8977.0	8649.0	8277.8	7852.4
17.5°	10284.7	10216.0	10115.8	9987.4	9823.9	9620.8	9384.0	9110.5	8790.6	8426.6	8014.6
15°	10324.1	10271.0	10182.2	10062.1	9911.6	9723.2	9491.0	9228.2	8911.2	8549.0	8138.7
12.5°	10336.9	10306.0	10238.5	10127.5	9984.3	9803.1	9575.6	9313.6	9005.3	8648.4	8242.6
10°	10344.3	10326.9	10271.5	10171.1	10034.8	9862.1	9643.9	9384.6	9083.5	8730.8	8328.7
7.5°	10337.8	10335.0	10293.3	10205.9	10074.9	9908.8	9698.0	9440.7	9145.2	8795.6	8396.2
5°	10333.0	10340.9	10309.3	10231.3	10104.1	9942.7	9737.2	9481.2	9189.6	8842.3	8444.9
2.5°	10330.1	10344.6	10319.1	10246.7	10121.9	9963.2	9760.9	9505.7	9216.4	8870.5	8474.2
0°	10329.1	10345.8	10322.4	10251.9	10127.8	9970.1	9768.8	9513.9	9225.4	8879.9	8484.0
-2.5°	10330.1	10344.6	10319.1	10246.7	10121.9	9963.2	9760.9	9505.7	9216.4	8870.5	8474.2
-5°	10333.0	10340.9	10309.3	10231.3	10104.1	9942.7	9737.2	9481.2	9189.6	8842.3	8444.9
-7.5°	10337.8	10335.0	10293.3	10205.9	10074.9	9908.8	9698.0	9440.7	9145.2	8795.6	8396.2
-10°	10344.3	10326.9	10271.5	10171.1	10034.8	9862.1	9643.9	9384.6	9083.5	8730.8	8328.7
-12.5°	10336.9	10306.0	10238.5	10127.5	9984.3	9803.1	9575.6	9313.6	9005.3	8648.4	8242.6
-15°	10324.1	10271.0	10182.2	10062.1	9911.6	9723.2	9491.0	9228.2	8911.2	8549.0	8138.7



REPORT NUMBER: P687826 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-LAM

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	10140.0	10039.5	9918.4	9771.5	9579.1	9362.3	9112.5	8822.2	8492.0	8112.5	7671.8
-25°	10026.3	9918.4	9786.9	9616.3	9422.7	9204.8	8940.2	8638.2	8298.7	7913.3	7470.9
-27.5°	9886.5	9771.5	9616.3	9443.1	9247.3	9007.8	8737.7	8434.7	8089.1	7682.9	7236.2
-30°	9714.6	9579.1	9422.7	9247.3	9030.6	8788.0	8513.6	8196.0	7835.3	7430.2	6984.7
-32.5°	9505.0	9362.3	9204.8	9007.8	8788.0	8538.1	8250.0	7928.1	7556.6	7144.3	6696.0
-35°	9263.7	9112.5	8940.2	8737.7	8513.6	8250.0	7959.2	7617.3	7241.3	6835.1	6384.9
-37.5°	8977.0	8822.2	8638.2	8434.7	8196.0	7928.1	7617.3	7273.8	6905.3	6487.7	6031.7
-40°	8649.0	8492.0	8298.7	8089.1	7835.3	7556.6	7241.3	6905.3	6522.2	6107.4	5650.9
-42.5°	8277.8	8112.5	7913.3	7682.9	7430.2	7144.3	6835.1	6487.7	6107.4	5688.2	5221.1
-45°	7852.4	7671.8	7470.9	7236.2	6984.7	6696.0	6384.9	6031.7	5650.9	5221.1	4767.0
-47.5°	7367.1	7184.3	6983.4	6748.9	6490.5	6207.3	5881.7	5536.8	5139.6	4725.6	4285.8
-50°	6836.6	6650.2	6445.0	6214.8	5946.1	5659.6	5332.9	4978.1	4602.2	4204.4	3800.7
-52.5°	6252.6	6060.3	5848.4	5617.7	5347.2	5051.9	4738.0	4398.5	4042.7	3687.3	3324.2
-55°	5598.3	5405.6	5189.0	4952.8	4696.0	4415.4	4117.5	3811.2	3500.2	3175.4	2898.2
-57.5°	4870.6	4688.8	4484.6	4261.7	4020.9	3773.4	3514.9	3241.8	2993.9	2748.4	2502.9
-60°	4117.5	3949.2	3773.4	3581.8	3374.4	3155.4	2961.8	2756.9	2541.4	2367.2	2186.8
-62.5°	3392.0	3248.3	3104.0	2961.8	2807.8	2642.5	2482.6	2339.5	2188.8	2034.9	1905.4
-65°	2764.1	2658.5	2541.4	2442.0	2335.5	2221.2	2099.2	1987.0	1879.8	1767.5	1653.1
-67.5°	2259.0	2186.8	2106.8	2025.7	1951.0	1870.6	1784.9	1693.9	1610.1	1527.0	1440.2
-70°	1858.1	1808.1	1752.6	1691.8	1633.2	1574.6	1512.1	1445.8	1375.7	1305.9	1234.6
-72.5°	1530.3	1494.4	1454.7	1411.2	1363.9	1315.9	1265.5	1212.1	1155.6	1096.2	1038.8
-75°	1244.1	1215.9	1184.6	1150.2	1112.9	1072.7	1035.4	998.1	958.7	917.2	873.9
-77.5°	987.2	968.1	947.0	923.7	898.5	871.2	842.1	810.6	776.0	739.6	701.5
-80°	760.6	744.6	726.8	707.2	686.0	663.0	638.5	612.4	584.8	556.7	528.3
-82.5°	527.6	516.4	504.0	490.3	475.5	459.5	442.4	424.1	404.9	384.6	363.3
-85°	311.6	305.3	298.3	290.7	282.3	273.4	263.7	253.5	242.7	231.3	219.3
-87.5°	129.2	127.0	124.6	122.0	119.1	116.0	112.6	109.1	105.3	101.4	97.2
-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: P687826 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-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°	92.9	88.4	83.7	78.8	73.9	68.7	63.5	58.1	52.6	47.0	41.3
85°	206.8	193.9	180.4	166.4	152.1	137.4	126.9	116.1	105.1	94.0	82.6
82.5°	341.0	320.7	300.5	279.6	258.0	235.9	213.2	189.9	166.3	142.1	123.7
80°	498.7	467.8	435.8	402.8	368.7	334.0	303.7	272.8	241.3	209.2	176.6
77.5°	661.7	620.3	577.5	535.7	493.1	449.4	404.6	358.8	315.8	275.7	235.1
75°	828.6	779.3	727.8	674.7	620.0	564.2	510.5	455.7	399.8	342.9	293.0
72.5°	985.9	931.0	874.1	815.0	751.2	685.8	618.7	551.6	486.5	420.3	353.2
70°	1160.5	1083.4	1014.1	947.0	878.0	806.5	730.0	651.9	572.4	496.8	420.3
67.5°	1349.9	1263.2	1173.5	1081.1	999.6	920.1	838.8	752.2	663.0	572.4	486.5
65°	1552.5	1448.1	1341.2	1238.5	1133.0	1031.4	941.3	849.4	752.2	651.9	551.6
62.5°	1770.8	1637.8	1519.1	1397.1	1277.8	1159.1	1042.1	941.3	838.8	730.0	618.7
60°	2010.3	1858.1	1701.1	1562.1	1425.6	1290.9	1159.1	1031.4	920.1	806.5	685.8
57.5°	2299.6	2089.5	1910.8	1736.1	1576.4	1425.6	1277.8	1133.0	999.6	878.0	751.2
55°	2612.0	2367.8	2134.7	1928.5	1736.1	1562.1	1397.1	1238.5	1081.1	947.0	815.0
52.5°	2988.8	2672.0	2390.6	2134.7	1910.8	1701.1	1519.1	1341.2	1173.5	1014.1	874.1
50°	3399.0	3019.2	2672.0	2367.8	2089.5	1858.1	1637.8	1448.1	1263.2	1083.4	931.0
47.5°	3838.6	3399.0	2988.8	2612.0	2299.6	2010.3	1770.8	1552.5	1349.9	1160.5	985.9
45°	4285.8	3800.7	3324.2	2898.2	2502.9	2186.8	1905.4	1653.1	1440.2	1234.6	1038.8
42.5°	4725.6	4204.4	3687.3	3175.4	2748.4	2367.2	2034.9	1767.5	1527.0	1305.9	1096.2
40°	5139.6	4602.2	4042.7	3500.2	2993.9	2541.4	2188.8	1879.8	1610.1	1375.7	1155.6
37.5°	5536.8	4978.1	4398.5	3811.2	3241.8	2756.9	2339.5	1987.0	1693.9	1445.8	1212.1
35°	5881.7	5332.9	4738.0	4117.5	3514.9	2961.8	2482.6	2099.2	1784.9	1512.1	1265.5
32.5°	6207.3	5659.6	5051.9	4415.4	3773.4	3155.4	2642.5	2221.2	1870.6	1574.6	1315.9
30°	6490.5	5946.1	5347.2	4696.0	4020.9	3374.4	2807.8	2335.5	1951.0	1633.2	1363.9
27.5°	6748.9	6214.8	5617.7	4952.8	4261.7	3581.8	2961.8	2442.0	2025.7	1691.8	1411.2
25°	6983.4	6445.0	5848.4	5189.0	4484.6	3773.4	3104.0	2541.4	2106.8	1752.6	1454.7
22.5°	7184.3	6650.2	6060.3	5405.6	4688.8	3949.2	3248.3	2658.5	2186.8	1808.1	1494.4
20°	7367.1	6836.6	6252.6	5598.3	4870.6	4117.5	3392.0	2764.1	2259.0	1858.1	1530.3
17.5°	7528.8	6995.9	6409.4	5755.9	5030.8	4267.4	3519.8	2858.1	2323.2	1902.5	1562.1
15°	7660.4	7128.6	6543.9	5893.9	5170.9	4398.5	3631.5	2940.1	2379.2	1941.3	1589.8
12.5°	7773.2	7242.0	6658.8	6011.8	5290.4	4510.2	3726.7	3010.0	2426.9	1974.2	1613.3
10°	7866.4	7335.8	6753.7	6108.9	5388.8	4602.2	3804.9	3067.4	2466.0	2001.3	1632.7
7.5°	7939.6	7409.2	6827.9	6184.9	5465.8	4674.1	3866.1	3112.3	2496.6	2022.4	1647.8
5°	7992.2	7462.0	6881.3	6239.5	5521.1	4725.6	3909.9	3144.4	2518.5	2037.6	1658.6
2.5°	8023.9	7493.8	6913.4	6272.3	5554.3	4756.7	3936.3	3163.8	2531.7	2046.7	1665.1
0°	8034.5	7504.4	6924.1	6283.3	5565.4	4767.0	3945.1	3170.2	2536.1	2049.7	1667.3
-2.5°	8023.9	7493.8	6913.4	6272.3	5554.3	4756.7	3936.3	3163.8	2531.7	2046.7	1665.1
-5°	7992.2	7462.0	6881.3	6239.5	5521.1	4725.6	3909.9	3144.4	2518.5	2037.6	1658.6
-7.5°	7939.6	7409.2	6827.9	6184.9	5465.8	4674.1	3866.1	3112.3	2496.6	2022.4	1647.8
-10°	7866.4	7335.8	6753.7	6108.9	5388.8	4602.2	3804.9	3067.4	2466.0	2001.3	1632.7
-12.5°	7773.2	7242.0	6658.8	6011.8	5290.4	4510.2	3726.7	3010.0	2426.9	1974.2	1613.3
-15°	7660.4	7128.6	6543.9	5893.9	5170.9	4398.5	3631.5	2940.1	2379.2	1941.3	1589.8



REPORT NUMBER: P687826 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-LAM

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	7184.3	6650.2	6060.3	5405.6	4688.8	3949.2	3248.3	2658.5	2186.8	1808.1	1494.4
-25°	6983.4	6445.0	5848.4	5189.0	4484.6	3773.4	3104.0	2541.4	2106.8	1752.6	1454.7
-27.5°	6748.9	6214.8	5617.7	4952.8	4261.7	3581.8	2961.8	2442.0	2025.7	1691.8	1411.2
-30°	6490.5	5946.1	5347.2	4696.0	4020.9	3374.4	2807.8	2335.5	1951.0	1633.2	1363.9
-32.5°	6207.3	5659.6	5051.9	4415.4	3773.4	3155.4	2642.5	2221.2	1870.6	1574.6	1315.9
-35°	5881.7	5332.9	4738.0	4117.5	3514.9	2961.8	2482.6	2099.2	1784.9	1512.1	1265.5
-37.5°	5536.8	4978.1	4398.5	3811.2	3241.8	2756.9	2339.5	1987.0	1693.9	1445.8	1212.1
-40°	5139.6	4602.2	4042.7	3500.2	2993.9	2541.4	2188.8	1879.8	1610.1	1375.7	1155.6
-42.5°	4725.6	4204.4	3687.3	3175.4	2748.4	2367.2	2034.9	1767.5	1527.0	1305.9	1096.2
-45°	4285.8	3800.7	3324.2	2898.2	2502.9	2186.8	1905.4	1653.1	1440.2	1234.6	1038.8
-47.5°	3838.6	3399.0	2988.8	2612.0	2299.6	2010.3	1770.8	1552.5	1349.9	1160.5	985.9
-50°	3399.0	3019.2	2672.0	2367.8	2089.5	1858.1	1637.8	1448.1	1263.2	1083.4	931.0
-52.5°	2988.8	2672.0	2390.6	2134.7	1910.8	1701.1	1519.1	1341.2	1173.5	1014.1	874.1
-55°	2612.0	2367.8	2134.7	1928.5	1736.1	1562.1	1397.1	1238.5	1081.1	947.0	815.0
-57.5°	2299.6	2089.5	1910.8	1736.1	1576.4	1425.6	1277.8	1133.0	999.6	878.0	751.2
-60°	2010.3	1858.1	1701.1	1562.1	1425.6	1290.9	1159.1	1031.4	920.1	806.5	685.8
-62.5°	1770.8	1637.8	1519.1	1397.1	1277.8	1159.1	1042.1	941.3	838.8	730.0	618.7
-65°	1552.5	1448.1	1341.2	1238.5	1133.0	1031.4	941.3	849.4	752.2	651.9	551.6
-67.5°	1349.9	1263.2	1173.5	1081.1	999.6	920.1	838.8	752.2	663.0	572.4	486.5
-70°	1160.5	1083.4	1014.1	947.0	878.0	806.5	730.0	651.9	572.4	496.8	420.3
-72.5°	985.9	931.0	874.1	815.0	751.2	685.8	618.7	551.6	486.5	420.3	353.2
-75°	828.6	779.3	727.8	674.7	620.0	564.2	510.5	455.7	399.8	342.9	293.0
-77.5°	661.7	620.3	577.5	535.7	493.1	449.4	404.6	358.8	315.8	275.7	235.1
-80°	498.7	467.8	435.8	402.8	368.7	334.0	303.7	272.8	241.3	209.2	176.6
-82.5°	341.0	320.7	300.5	279.6	258.0	235.9	213.2	189.9	166.3	142.1	123.7
-85°	206.8	193.9	180.4	166.4	152.1	137.4	126.9	116.1	105.1	94.0	82.6
-87.5°	92.9	88.4	83.7	78.8	73.9	68.7	63.5	58.1	52.6	47.0	41.3
-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: P687826 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-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°	35.6	29.8	23.9	17.9	12.0	6.0	0.0
85°	71.1	59.4	47.7	35.8	23.9	12.0	0.0
82.5°	106.5	89.0	71.4	53.7	35.8	17.9	0.0
80°	143.5	118.5	95.0	71.4	47.7	23.9	0.0
77.5°	193.8	152.2	118.5	89.0	59.4	29.8	0.0
75°	243.7	193.8	143.5	106.5	71.1	35.6	0.0
72.5°	293.0	235.1	176.6	123.7	82.6	41.3	0.0
70°	342.9	275.7	209.2	142.1	94.0	47.0	0.0
67.5°	399.8	315.8	241.3	166.3	105.1	52.6	0.0
65°	455.7	358.8	272.8	189.9	116.1	58.1	0.0
62.5°	510.5	404.6	303.7	213.2	126.9	63.5	0.0
60°	564.2	449.4	334.0	235.9	137.4	68.7	0.0
57.5°	620.0	493.1	368.7	258.0	152.1	73.9	0.0
55°	674.7	535.7	402.8	279.6	166.4	78.8	0.0
52.5°	727.8	577.5	435.8	300.5	180.4	83.7	0.0
50°	779.3	620.3	467.8	320.7	193.9	88.4	0.0
47.5°	828.6	661.7	498.7	341.0	206.8	92.9	0.0
45°	873.9	701.5	528.3	363.3	219.3	97.2	0.0
42.5°	917.2	739.6	556.7	384.6	231.3	101.4	0.0
40°	958.7	776.0	584.8	404.9	242.7	105.3	0.0
37.5°	998.1	810.6	612.4	424.1	253.5	109.1	0.0
35°	1035.4	842.1	638.5	442.4	263.7	112.6	0.0
32.5°	1072.7	871.2	663.0	459.5	273.4	116.0	0.0
30°	1112.9	898.5	686.0	475.5	282.3	119.1	0.0
27.5°	1150.2	923.7	707.2	490.3	290.7	122.0	0.0
25°	1184.6	947.0	726.8	504.0	298.3	124.6	0.0
22.5°	1215.9	968.1	744.6	516.4	305.3	127.0	0.0
20°	1244.1	987.2	760.6	527.6	311.6	129.2	0.0
17.5°	1269.1	1004.1	774.9	537.5	317.1	131.1	0.0
15°	1290.9	1018.9	787.3	546.2	322.0	132.8	0.0
12.5°	1309.5	1031.4	797.8	553.5	326.1	134.2	0.0
10°	1324.7	1041.7	806.5	559.5	329.5	135.4	0.0
7.5°	1336.6	1049.7	813.2	564.2	332.1	136.3	0.0
5°	1345.1	1055.5	818.0	567.6	334.0	137.0	0.0
2.5°	1350.2	1058.9	820.9	569.6	335.1	137.4	0.0
0°	1351.9	1060.1	821.9	570.3	335.5	137.5	0.0
-2.5°	1350.2	1058.9	820.9	569.6	335.1	137.4	0.0
-5°	1345.1	1055.5	818.0	567.6	334.0	137.0	0.0
-7.5°	1336.6	1049.7	813.2	564.2	332.1	136.3	0.0
-10°	1324.7	1041.7	806.5	559.5	329.5	135.4	0.0
-12.5°	1309.5	1031.4	797.8	553.5	326.1	134.2	0.0
-15°	1290.9	1018.9	787.3	546.2	322.0	132.8	0.0

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REPORT NUMBER: P687826 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-LAM

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	1215.9	968.1	744.6	516.4	305.3	127.0	0.0
-25°	1184.6	947.0	726.8	504.0	298.3	124.6	0.0
-27.5°	1150.2	923.7	707.2	490.3	290.7	122.0	0.0
-30°	1112.9	898.5	686.0	475.5	282.3	119.1	0.0
-32.5°	1072.7	871.2	663.0	459.5	273.4	116.0	0.0
-35°	1035.4	842.1	638.5	442.4	263.7	112.6	0.0
-37.5°	998.1	810.6	612.4	424.1	253.5	109.1	0.0
-40°	958.7	776.0	584.8	404.9	242.7	105.3	0.0
-42.5°	917.2	739.6	556.7	384.6	231.3	101.4	0.0
-45°	873.9	701.5	528.3	363.3	219.3	97.2	0.0
-47.5°	828.6	661.7	498.7	341.0	206.8	92.9	0.0
-50°	779.3	620.3	467.8	320.7	193.9	88.4	0.0
-52.5°	727.8	577.5	435.8	300.5	180.4	83.7	0.0
-55°	674.7	535.7	402.8	279.6	166.4	78.8	0.0
-57.5°	620.0	493.1	368.7	258.0	152.1	73.9	0.0
-60°	564.2	449.4	334.0	235.9	137.4	68.7	0.0
-62.5°	510.5	404.6	303.7	213.2	126.9	63.5	0.0
-65°	455.7	358.8	272.8	189.9	116.1	58.1	0.0
-67.5°	399.8	315.8	241.3	166.3	105.1	52.6	0.0
-70°	342.9	275.7	209.2	142.1	94.0	47.0	0.0
-72.5°	293.0	235.1	176.6	123.7	82.6	41.3	0.0
-75°	243.7	193.8	143.5	106.5	71.1	35.6	0.0
-77.5°	193.8	152.2	118.5	89.0	59.4	29.8	0.0
-80°	143.5	118.5	95.0	71.4	47.7	23.9	0.0
-82.5°	106.5	89.0	71.4	53.7	35.8	17.9	0.0
-85°	71.1	59.4	47.7	35.8	23.9	12.0	0.0
-87.5°	35.6	29.8	23.9	17.9	12.0	6.0	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	131.1	317.1	537.5	774.9	1004.1	1269.1	1562.1	1902.5	2323.2	2858.1
-20°	0.0	129.2	311.6	527.6	760.6	987.2	1244.1	1530.3	1858.1	2259.0	2764.1

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-17.5°	3519.8	4267.4	5030.8	5755.9	6409.4	6995.9	7528.8	8014.6	8426.6	8790.6	9110.5
-20°	3392.0	4117.5	4870.6	5598.3	6252.6	6836.6	7367.1	7852.4	8277.8	8649.0	8977.0

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-17.5°	9384.0	9620.8	9823.9	9987.4	10115.8	10216.0	10284.7	10326.6	10342.1	10338.4	10329.6
-20°	9263.7	9505.0	9714.6	9886.5	10026.3	10140.0	10227.5	10284.7	10324.1	10336.9	10344.3

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-17.5°	10307.5	10290.0	10279.1	10275.4	10279.1	10290.0	10307.5	10329.6	10338.4	10342.1	10326.6
-20°	10337.8	10333.0	10330.1	10329.1	10330.1	10333.0	10337.8	10344.3	10336.9	10324.1	10284.7

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-17.5°	10284.7	10216.0	10115.8	9987.4	9823.9	9620.8	9384.0	9110.5	8790.6	8426.6	8014.6
-20°	10227.5	10140.0	10026.3	9886.5	9714.6	9505.0	9263.7	8977.0	8649.0	8277.8	7852.4

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-17.5°	7528.8	6995.9	6409.4	5755.9	5030.8	4267.4	3519.8	2858.1	2323.2	1902.5	1562.1
-20°	7367.1	6836.6	6252.6	5598.3	4870.6	4117.5	3392.0	2764.1	2259.0	1858.1	1530.3

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-17.5°	1269.1	1004.1	774.9	537.5	317.1	131.1	0.0
-20°	1244.1	987.2	760.6	527.6	311.6	129.2	0.0

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)