

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: P687825 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-VN-04-E-PRO-3000K-LAM**

Issue Date: 5/17/2023

Test Information

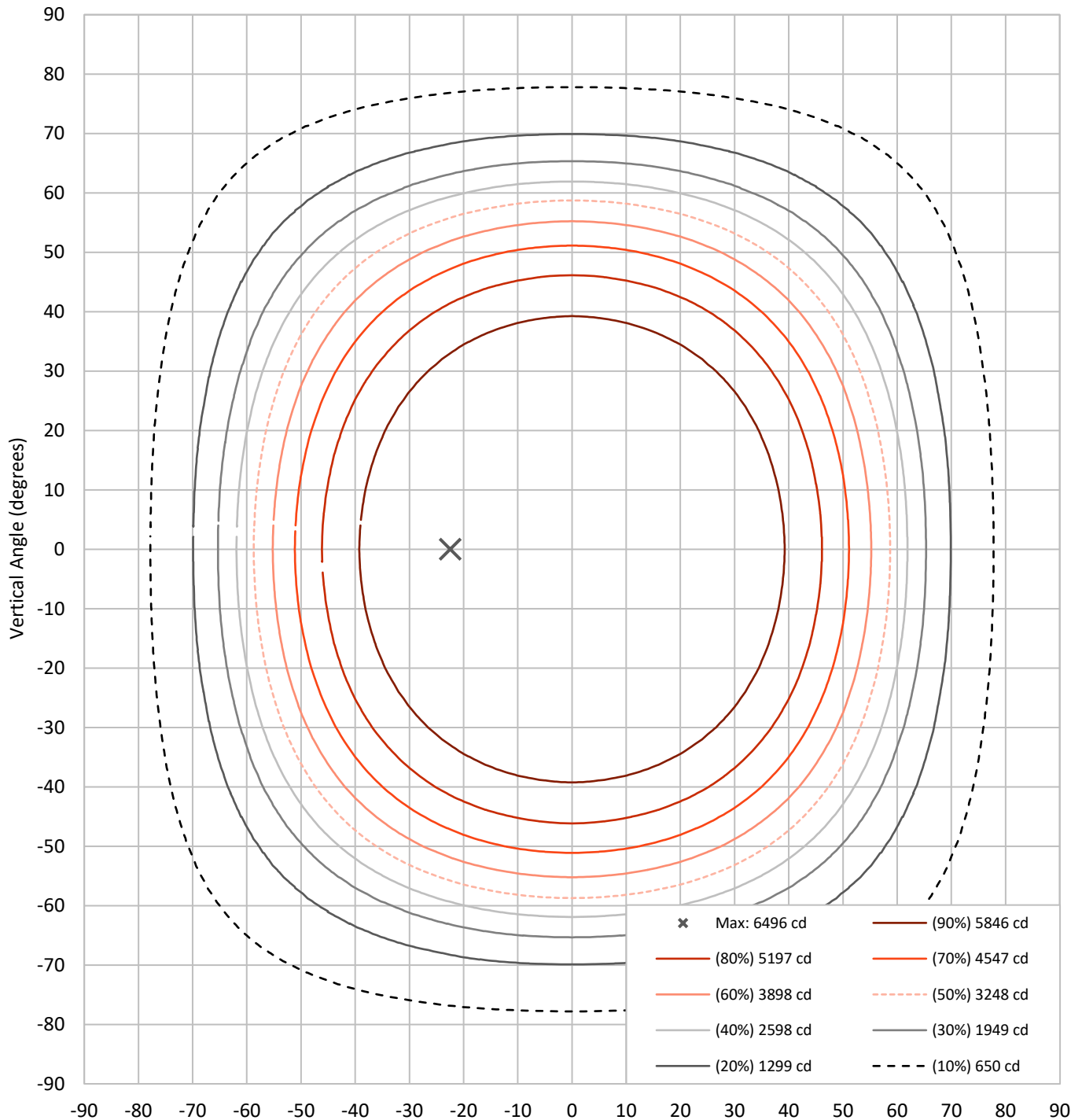
Test Method: LM-79-08
 Report Number: P687825 (CONVERTED FROM TYPE C PHOTOMETRY)
 TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-765-34)
 Test Lab: INNOVATION CENTER
 Issue Date: 5/17/2023
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: EPHEBUS
 Catalog Number: EPH-VN-04-E-PRO-3000K-LAM
 Description: EPHEBUS LUMAVISION CCT TUNING FLOOD
 3000K AND LAMBERTIAN OPTICS
 Light Source: -
 Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	20006.3 lumens	Max Intensity:	6496 candela
Efficiency:	N/A	Max Intensity Angle:	-22.5°H x 0°V
Efficacy:	122.4 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	117.5°H x 111.6°V	Field Angle (10%):	155.5°H x 153.7°V
Beam Lumens:	16373.2 lumens	Field Lumens:	19622.6 lumens
Beam Efficiency:	81.8%	Field Efficiency:	98.1%
Input Watts (W):	163.5		
Input Voltage (V):	NR		
Input Current (A _{in}):	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-04-E-PRO-3000K-LAM

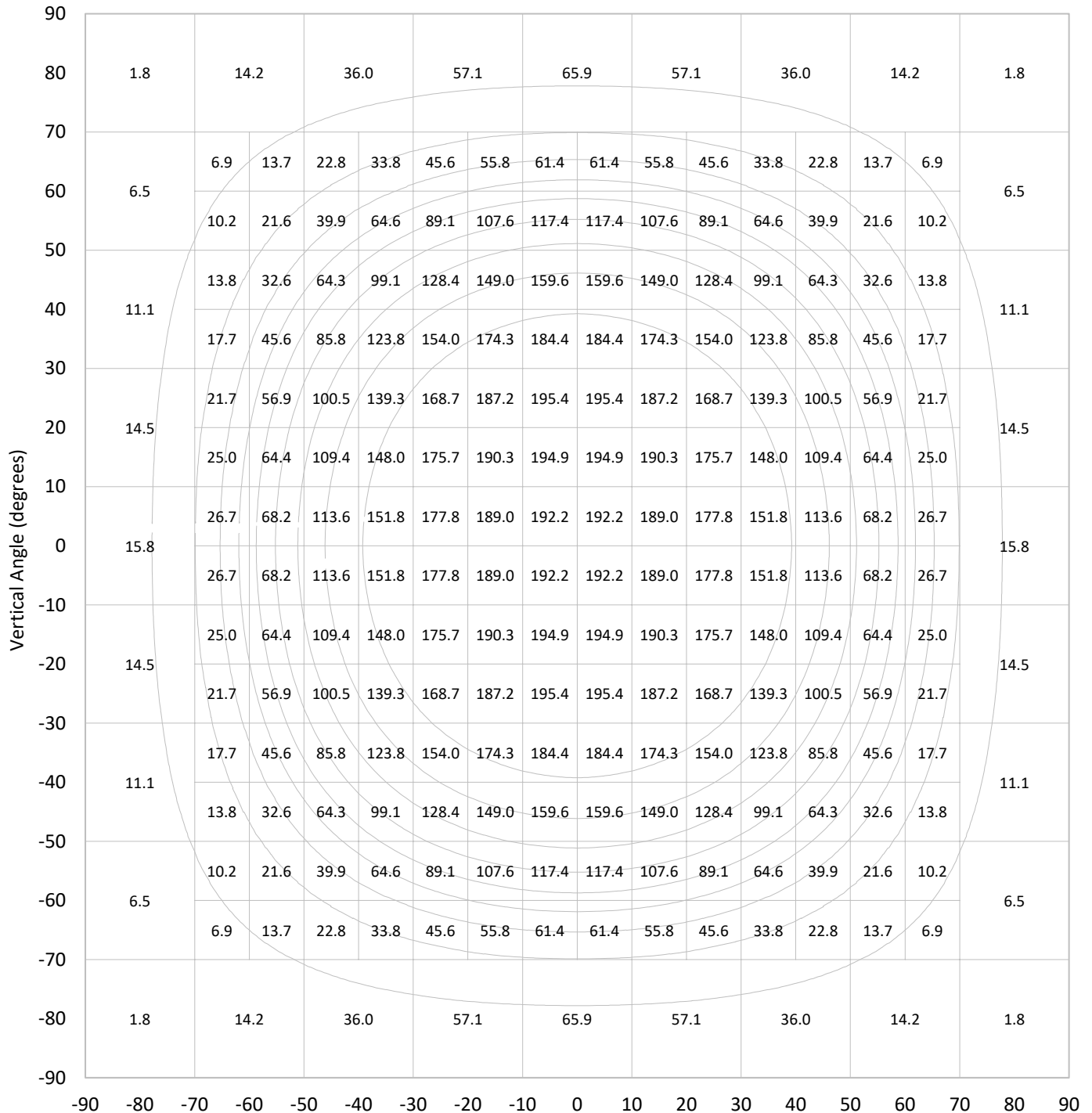
Iso-Candela Plot





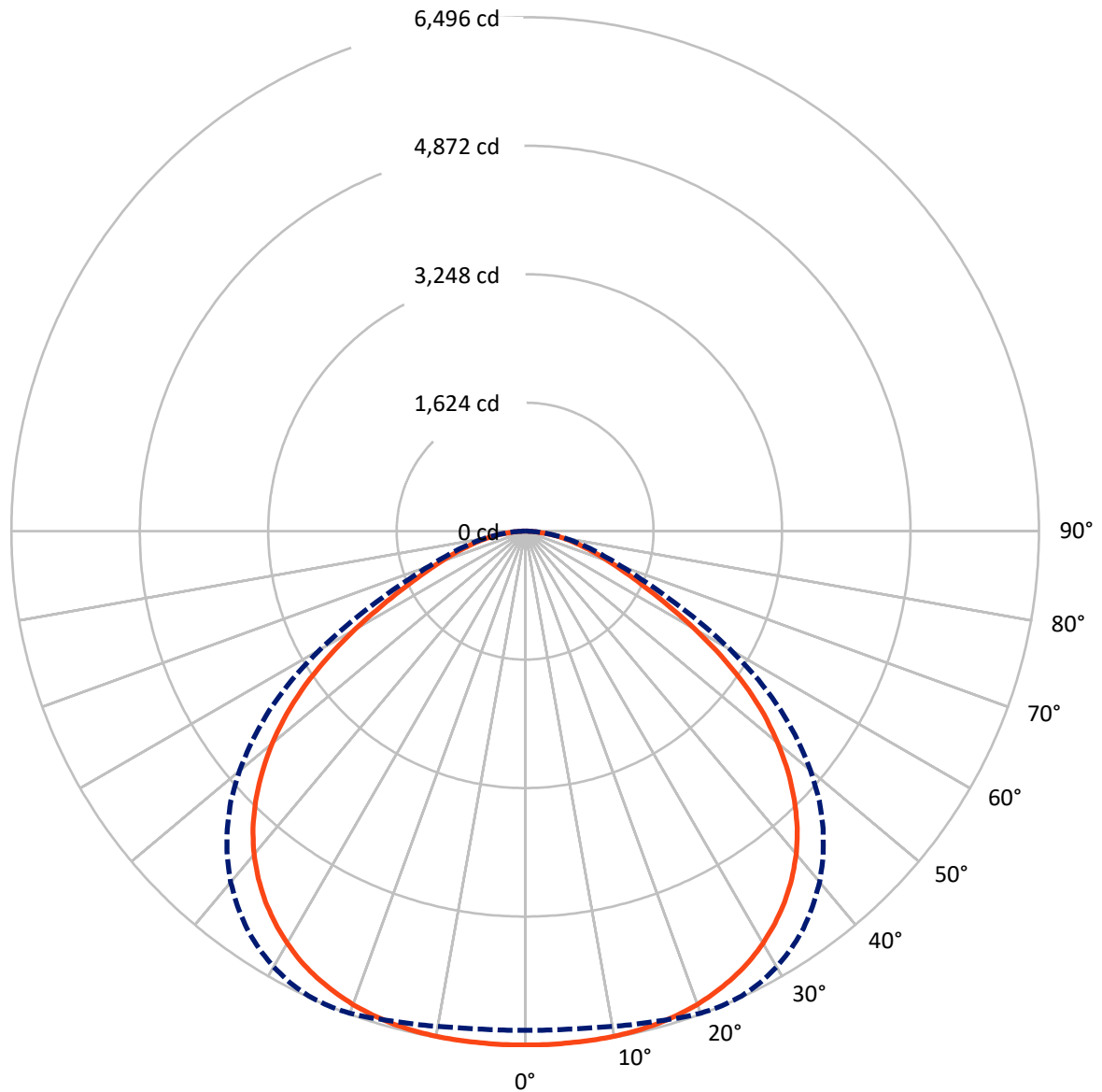
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Lumen Table



REPORT NUMBER: P687825 (CONVERTED FROM TYPE C PHOTOMETRY)
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Luminous Intensity Polar Plot



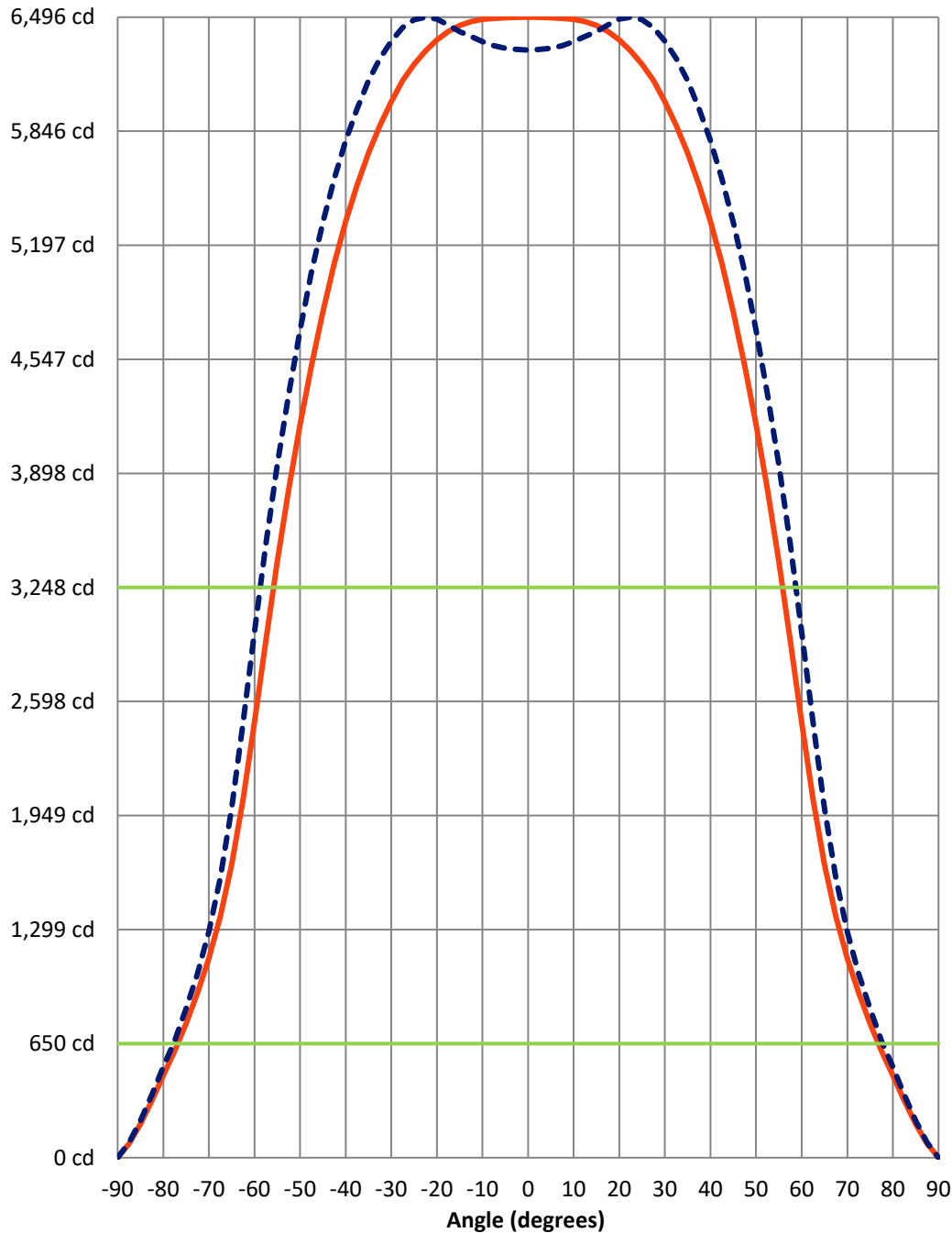
— Vertical Distribution Through -22.5-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 117.5°
V Angle: 111.6°
Lumens: 16373.2
Efficiency: 81.8%

Field:
H Angle: 155.5°
V Angle: 153.7°
Lumens: 19622.6
Efficiency: 98.1%

Spill:
Lumens: 383.8
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	3.8	7.5	11.3	15.0	18.7	22.4	26.0	29.5	33.1	36.5
85°	0.0	7.5	15.0	22.5	30.0	37.4	44.7	51.9	59.0	66.1	73.0
82.5°	0.0	11.3	22.5	33.7	44.9	55.9	66.9	77.7	89.3	104.4	119.3
80°	0.0	15.0	30.0	44.9	59.7	74.4	90.2	110.9	131.4	151.5	171.3
77.5°	0.0	18.7	37.4	55.9	74.4	95.6	121.7	147.6	173.1	198.2	225.2
75°	0.0	22.4	44.7	66.9	90.2	121.7	153.0	184.0	215.2	251.0	286.1
72.5°	0.0	26.0	51.9	77.7	110.9	147.6	184.0	221.7	263.9	305.5	346.4
70°	0.0	29.5	59.0	89.3	131.4	173.1	215.2	263.9	311.9	359.4	409.3
67.5°	0.0	33.1	66.1	104.4	151.5	198.2	251.0	305.5	359.4	416.3	472.3
65°	0.0	36.5	73.0	119.3	171.3	225.2	286.1	346.4	409.3	472.3	533.4
62.5°	0.0	39.9	79.7	133.9	190.7	254.0	320.6	388.5	458.4	526.7	591.0
60°	0.0	43.2	86.3	148.1	209.7	282.1	354.3	430.6	506.4	577.8	647.6
57.5°	0.0	46.4	95.5	162.0	231.5	309.6	389.3	471.7	551.3	627.7	711.4
55°	0.0	49.5	104.6	175.5	252.9	336.4	423.7	511.8	594.6	678.8	777.7
52.5°	0.0	52.6	113.3	188.6	273.6	362.6	457.0	548.9	636.7	736.8	842.2
50°	0.0	55.5	121.7	201.3	293.7	389.5	489.3	584.6	680.3	793.2	909.3
47.5°	0.0	58.4	129.9	214.1	313.1	415.5	520.3	619.0	728.6	847.7	974.8
45°	0.0	61.1	137.7	228.0	331.7	440.5	548.7	652.2	775.2	904.3	1038.0
42.5°	0.0	63.7	145.2	241.4	349.6	464.4	575.9	688.3	820.0	958.8	1109.8
40°	0.0	66.2	152.4	254.2	367.2	487.3	602.0	725.6	863.9	1011.0	1180.3
37.5°	0.0	68.5	159.2	266.3	384.5	509.0	626.7	761.1	907.8	1063.6	1247.6
35°	0.0	70.8	165.6	277.7	400.9	528.8	650.1	794.6	949.5	1120.7	1318.1
32.5°	0.0	72.9	171.6	288.5	416.3	547.1	673.5	826.3	988.7	1174.6	1394.7
30°	0.0	74.8	177.3	298.5	430.7	564.2	698.8	856.4	1025.5	1225.0	1466.5
27.5°	0.0	76.6	182.5	307.9	444.1	580.0	722.2	886.1	1062.3	1271.9	1533.3
25°	0.0	78.3	187.3	316.4	456.4	594.6	743.8	913.4	1100.5	1322.9	1595.7
22.5°	0.0	79.8	191.6	324.2	467.6	607.9	763.4	938.4	1135.3	1373.1	1669.2
20°	0.0	81.2	195.6	331.3	477.6	619.9	781.2	960.9	1166.7	1418.4	1735.6
17.5°	0.0	82.4	199.1	337.5	486.6	630.5	796.9	980.8	1194.6	1458.7	1794.6
15°	0.0	83.5	202.1	342.9	494.4	639.7	810.6	998.2	1218.9	1493.9	1846.1
12.5°	0.0	84.4	204.7	347.6	501.0	647.6	822.2	1013.0	1239.6	1523.8	1889.9
10°	0.0	85.1	206.8	351.3	506.4	654.1	831.8	1025.2	1256.6	1548.4	1926.0
7.5°	0.0	85.7	208.5	354.3	510.6	659.1	839.3	1034.7	1269.9	1567.6	1954.1
5°	0.0	86.1	209.7	356.4	513.7	662.7	844.6	1041.5	1279.4	1581.4	1974.3
2.5°	0.0	86.3	210.4	357.7	515.5	664.9	847.8	1045.5	1285.1	1589.6	1986.5
0°	0.0	86.4	210.6	358.1	516.1	665.6	848.9	1046.9	1287.0	1592.4	1990.5
-2.5°	0.0	86.3	210.4	357.7	515.5	664.9	847.8	1045.5	1285.1	1589.6	1986.5
-5°	0.0	86.1	209.7	356.4	513.7	662.7	844.6	1041.5	1279.4	1581.4	1974.3
-7.5°	0.0	85.7	208.5	354.3	510.6	659.1	839.3	1034.7	1269.9	1567.6	1954.1
-10°	0.0	85.1	206.8	351.3	506.4	654.1	831.8	1025.2	1256.6	1548.4	1926.0
-12.5°	0.0	84.4	204.7	347.6	501.0	647.6	822.2	1013.0	1239.6	1523.8	1889.9
-15°	0.0	83.5	202.1	342.9	494.4	639.7	810.6	998.2	1218.9	1493.9	1846.1

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CATALOG NUMBER: EPH-VN-04-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	79.8	191.6	324.2	467.6	607.9	763.4	938.4	1135.3	1373.1	1669.2
-25°	0.0	78.3	187.3	316.4	456.4	594.6	743.8	913.4	1100.5	1322.9	1595.7
-27.5°	0.0	76.6	182.5	307.9	444.1	580.0	722.2	886.1	1062.3	1271.9	1533.3
-30°	0.0	74.8	177.3	298.5	430.7	564.2	698.8	856.4	1025.5	1225.0	1466.5
-32.5°	0.0	72.9	171.6	288.5	416.3	547.1	673.5	826.3	988.7	1174.6	1394.7
-35°	0.0	70.8	165.6	277.7	400.9	528.8	650.1	794.6	949.5	1120.7	1318.1
-37.5°	0.0	68.5	159.2	266.3	384.5	509.0	626.7	761.1	907.8	1063.6	1247.6
-40°	0.0	66.2	152.4	254.2	367.2	487.3	602.0	725.6	863.9	1011.0	1180.3
-42.5°	0.0	63.7	145.2	241.4	349.6	464.4	575.9	688.3	820.0	958.8	1109.8
-45°	0.0	61.1	137.7	228.0	331.7	440.5	548.7	652.2	775.2	904.3	1038.0
-47.5°	0.0	58.4	129.9	214.1	313.1	415.5	520.3	619.0	728.6	847.7	974.8
-50°	0.0	55.5	121.7	201.3	293.7	389.5	489.3	584.6	680.3	793.2	909.3
-52.5°	0.0	52.6	113.3	188.6	273.6	362.6	457.0	548.9	636.7	736.8	842.2
-55°	0.0	49.5	104.6	175.5	252.9	336.4	423.7	511.8	594.6	678.8	777.7
-57.5°	0.0	46.4	95.5	162.0	231.5	309.6	389.3	471.7	551.3	627.7	711.4
-60°	0.0	43.2	86.3	148.1	209.7	282.1	354.3	430.6	506.4	577.8	647.6
-62.5°	0.0	39.9	79.7	133.9	190.7	254.0	320.6	388.5	458.4	526.7	591.0
-65°	0.0	36.5	73.0	119.3	171.3	225.2	286.1	346.4	409.3	472.3	533.4
-67.5°	0.0	33.1	66.1	104.4	151.5	198.2	251.0	305.5	359.4	416.3	472.3
-70°	0.0	29.5	59.0	89.3	131.4	173.1	215.2	263.9	311.9	359.4	409.3
-72.5°	0.0	26.0	51.9	77.7	110.9	147.6	184.0	221.7	263.9	305.5	346.4
-75°	0.0	22.4	44.7	66.9	90.2	121.7	153.0	184.0	215.2	251.0	286.1
-77.5°	0.0	18.7	37.4	55.9	74.4	95.6	121.7	147.6	173.1	198.2	225.2
-80°	0.0	15.0	30.0	44.9	59.7	74.4	90.2	110.9	131.4	151.5	171.3
-82.5°	0.0	11.3	22.5	33.7	44.9	55.9	66.9	77.7	89.3	104.4	119.3
-85°	0.0	7.5	15.0	22.5	30.0	37.4	44.7	51.9	59.0	66.1	73.0
-87.5°	0.0	3.8	7.5	11.3	15.0	18.7	22.4	26.0	29.5	33.1	36.5
-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: P687825 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-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°	39.9	43.2	46.4	49.5	52.6	55.5	58.4	61.1	63.7	66.2	68.5
85°	79.7	86.3	95.5	104.6	113.3	121.7	129.9	137.7	145.2	152.4	159.2
82.5°	133.9	148.1	162.0	175.5	188.6	201.3	214.1	228.0	241.4	254.2	266.3
80°	190.7	209.7	231.5	252.9	273.6	293.7	313.1	331.7	349.6	367.2	384.5
77.5°	254.0	282.1	309.6	336.4	362.6	389.5	415.5	440.5	464.4	487.3	509.0
75°	320.6	354.3	389.3	423.7	457.0	489.3	520.3	548.7	575.9	602.0	626.7
72.5°	388.5	430.6	471.7	511.8	548.9	584.6	619.0	652.2	688.3	725.6	761.1
70°	458.4	506.4	551.3	594.6	636.7	680.3	728.6	775.2	820.0	863.9	907.8
67.5°	526.7	577.8	627.7	678.8	736.8	793.2	847.7	904.3	958.8	1011.0	1063.6
65°	591.0	647.6	711.4	777.7	842.2	909.3	974.8	1038.0	1109.8	1180.3	1247.6
62.5°	654.3	727.8	802.3	877.2	953.9	1028.4	1111.9	1196.4	1277.7	1374.3	1469.0
60°	727.8	810.6	895.1	980.8	1068.1	1166.7	1262.3	1373.1	1486.3	1595.7	1731.0
57.5°	802.3	895.1	989.8	1090.1	1199.8	1312.0	1443.9	1571.5	1725.7	1879.8	2035.5
55°	877.2	980.8	1090.1	1210.9	1340.3	1486.7	1640.0	1819.7	1993.8	2197.7	2393.0
52.5°	953.9	1068.1	1199.8	1340.3	1501.0	1677.7	1876.6	2087.2	2315.2	2538.4	2761.7
50°	1028.4	1166.7	1312.0	1486.7	1677.7	1895.7	2134.2	2386.4	2639.9	2889.6	3125.6
47.5°	1111.9	1262.3	1443.9	1640.0	1876.6	2134.2	2410.2	2691.0	2967.1	3227.1	3476.5
45°	1196.4	1373.1	1571.5	1819.7	2087.2	2386.4	2691.0	2993.1	3278.2	3548.1	3787.2
42.5°	1277.7	1486.3	1725.7	1993.8	2315.2	2639.9	2967.1	3278.2	3571.5	3834.8	4073.5
40°	1374.3	1595.7	1879.8	2197.7	2538.4	2889.6	3227.1	3548.1	3834.8	4095.2	4335.7
37.5°	1469.0	1731.0	2035.5	2393.0	2761.7	3125.6	3476.5	3787.2	4073.5	4335.7	4567.1
35°	1558.8	1859.6	2207.0	2585.3	2974.9	3348.4	3693.0	4009.0	4291.6	4546.7	4782.8
32.5°	1659.2	1981.2	2369.3	2772.4	3172.0	3553.6	3897.5	4204.3	4485.8	4744.7	4977.9
30°	1763.0	2118.7	2524.7	2948.5	3357.4	3733.5	4075.3	4385.6	4665.3	4919.7	5146.1
27.5°	1859.6	2248.9	2675.9	3109.8	3527.2	3902.2	4237.5	4543.5	4824.0	5079.0	5296.0
25°	1948.9	2369.3	2815.8	3258.0	3672.1	4046.7	4384.7	4690.9	4968.6	5210.6	5423.8
22.5°	2039.5	2479.6	2944.0	3394.1	3805.2	4175.5	4510.9	4817.0	5093.7	5332.0	5539.3
20°	2129.8	2585.3	3058.2	3515.1	3925.9	4292.6	4625.7	4930.4	5197.5	5430.6	5636.5
17.5°	2210.0	2679.5	3158.7	3614.0	4024.3	4392.6	4727.2	5032.2	5290.9	5519.4	5720.3
15°	2280.2	2761.7	3246.7	3700.7	4108.8	4475.9	4809.8	5110.1	5367.8	5595.2	5794.3
12.5°	2339.9	2831.9	3321.7	3774.7	4180.9	4547.1	4880.6	5175.4	5430.2	5654.3	5847.8
10°	2389.1	2889.6	3383.5	3835.7	4240.5	4606.0	4939.2	5229.4	5481.9	5703.4	5892.5
7.5°	2427.5	2934.8	3431.9	3883.4	4287.1	4652.1	4985.1	5271.9	5522.6	5742.1	5927.7
5°	2455.0	2967.1	3466.6	3917.7	4320.6	4685.3	5018.1	5302.4	5551.9	5770.0	5953.1
2.5°	2471.6	2986.6	3487.4	3938.3	4340.8	4705.2	5038.1	5320.8	5569.6	5786.9	5968.5
0°	2477.1	2993.1	3494.4	3945.2	4347.5	4711.9	5044.7	5327.0	5575.5	5792.5	5973.6
-2.5°	2471.6	2986.6	3487.4	3938.3	4340.8	4705.2	5038.1	5320.8	5569.6	5786.9	5968.5
-5°	2455.0	2967.1	3466.6	3917.7	4320.6	4685.3	5018.1	5302.4	5551.9	5770.0	5953.1
-7.5°	2427.5	2934.8	3431.9	3883.4	4287.1	4652.1	4985.1	5271.9	5522.6	5742.1	5927.7
-10°	2389.1	2889.6	3383.5	3835.7	4240.5	4606.0	4939.2	5229.4	5481.9	5703.4	5892.5
-12.5°	2339.9	2831.9	3321.7	3774.7	4180.9	4547.1	4880.6	5175.4	5430.2	5654.3	5847.8
-15°	2280.2	2761.7	3246.7	3700.7	4108.8	4475.9	4809.8	5110.1	5367.8	5595.2	5794.3



REPORT NUMBER: P687825 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-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°	2039.5	2479.6	2944.0	3394.1	3805.2	4175.5	4510.9	4817.0	5093.7	5332.0	5539.3
-25°	1948.9	2369.3	2815.8	3258.0	3672.1	4046.7	4384.7	4690.9	4968.6	5210.6	5423.8
-27.5°	1859.6	2248.9	2675.9	3109.8	3527.2	3902.2	4237.5	4543.5	4824.0	5079.0	5296.0
-30°	1763.0	2118.7	2524.7	2948.5	3357.4	3733.5	4075.3	4385.6	4665.3	4919.7	5146.1
-32.5°	1659.2	1981.2	2369.3	2772.4	3172.0	3553.6	3897.5	4204.3	4485.8	4744.7	4977.9
-35°	1558.8	1859.6	2207.0	2585.3	2974.9	3348.4	3693.0	4009.0	4291.6	4546.7	4782.8
-37.5°	1469.0	1731.0	2035.5	2393.0	2761.7	3125.6	3476.5	3787.2	4073.5	4335.7	4567.1
-40°	1374.3	1595.7	1879.8	2197.7	2538.4	2889.6	3227.1	3548.1	3834.8	4095.2	4335.7
-42.5°	1277.7	1486.3	1725.7	1993.8	2315.2	2639.9	2967.1	3278.2	3571.5	3834.8	4073.5
-45°	1196.4	1373.1	1571.5	1819.7	2087.2	2386.4	2691.0	2993.1	3278.2	3548.1	3787.2
-47.5°	1111.9	1262.3	1443.9	1640.0	1876.6	2134.2	2410.2	2691.0	2967.1	3227.1	3476.5
-50°	1028.4	1166.7	1312.0	1486.7	1677.7	1895.7	2134.2	2386.4	2639.9	2889.6	3125.6
-52.5°	953.9	1068.1	1199.8	1340.3	1501.0	1677.7	1876.6	2087.2	2315.2	2538.4	2761.7
-55°	877.2	980.8	1090.1	1210.9	1340.3	1486.7	1640.0	1819.7	1993.8	2197.7	2393.0
-57.5°	802.3	895.1	989.8	1090.1	1199.8	1312.0	1443.9	1571.5	1725.7	1879.8	2035.5
-60°	727.8	810.6	895.1	980.8	1068.1	1166.7	1262.3	1373.1	1486.3	1595.7	1731.0
-62.5°	654.3	727.8	802.3	877.2	953.9	1028.4	1111.9	1196.4	1277.7	1374.3	1469.0
-65°	591.0	647.6	711.4	777.7	842.2	909.3	974.8	1038.0	1109.8	1180.3	1247.6
-67.5°	526.7	577.8	627.7	678.8	736.8	793.2	847.7	904.3	958.8	1011.0	1063.6
-70°	458.4	506.4	551.3	594.6	636.7	680.3	728.6	775.2	820.0	863.9	907.8
-72.5°	388.5	430.6	471.7	511.8	548.9	584.6	619.0	652.2	688.3	725.6	761.1
-75°	320.6	354.3	389.3	423.7	457.0	489.3	520.3	548.7	575.9	602.0	626.7
-77.5°	254.0	282.1	309.6	336.4	362.6	389.5	415.5	440.5	464.4	487.3	509.0
-80°	190.7	209.7	231.5	252.9	273.6	293.7	313.1	331.7	349.6	367.2	384.5
-82.5°	133.9	148.1	162.0	175.5	188.6	201.3	214.1	228.0	241.4	254.2	266.3
-85°	79.7	86.3	95.5	104.6	113.3	121.7	129.9	137.7	145.2	152.4	159.2
-87.5°	39.9	43.2	46.4	49.5	52.6	55.5	58.4	61.1	63.7	66.2	68.5
-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: P687825 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-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°	70.8	72.9	74.8	76.6	78.3	79.8	81.2	82.4	83.5	84.4	85.1
85°	165.6	171.6	177.3	182.5	187.3	191.6	195.6	199.1	202.1	204.7	206.8
82.5°	277.7	288.5	298.5	307.9	316.4	324.2	331.3	337.5	342.9	347.6	351.3
80°	400.9	416.3	430.7	444.1	456.4	467.6	477.6	486.6	494.4	501.0	506.4
77.5°	528.8	547.1	564.2	580.0	594.6	607.9	619.9	630.5	639.7	647.6	654.1
75°	650.1	673.5	698.8	722.2	743.8	763.4	781.2	796.9	810.6	822.2	831.8
72.5°	794.6	826.3	856.4	886.1	913.4	938.4	960.9	980.8	998.2	1013.0	1025.2
70°	949.5	988.7	1025.5	1062.3	1100.5	1135.3	1166.7	1194.6	1218.9	1239.6	1256.6
67.5°	1120.7	1174.6	1225.0	1271.9	1322.9	1373.1	1418.4	1458.7	1493.9	1523.8	1548.4
65°	1318.1	1394.7	1466.5	1533.3	1595.7	1669.2	1735.6	1794.6	1846.1	1889.9	1926.0
62.5°	1558.8	1659.2	1763.0	1859.6	1948.9	2039.5	2129.8	2210.0	2280.2	2339.9	2389.1
60°	1859.6	1981.2	2118.7	2248.9	2369.3	2479.6	2585.3	2679.5	2761.7	2831.9	2889.6
57.5°	2207.0	2369.3	2524.7	2675.9	2815.8	2944.0	3058.2	3158.7	3246.7	3321.7	3383.5
55°	2585.3	2772.4	2948.5	3109.8	3258.0	3394.1	3515.1	3614.0	3700.7	3774.7	3835.7
52.5°	2974.9	3172.0	3357.4	3527.2	3672.1	3805.2	3925.9	4024.3	4108.8	4180.9	4240.5
50°	3348.4	3553.6	3733.5	3902.2	4046.7	4175.5	4292.6	4392.6	4475.9	4547.1	4606.0
47.5°	3693.0	3897.5	4075.3	4237.5	4384.7	4510.9	4625.7	4727.2	4809.8	4880.6	4939.2
45°	4009.0	4204.3	4385.6	4543.5	4690.9	4817.0	4930.4	5032.2	5110.1	5175.4	5229.4
42.5°	4291.6	4485.8	4665.3	4824.0	4968.6	5093.7	5197.5	5290.9	5367.8	5430.2	5481.9
40°	4546.7	4744.7	4919.7	5079.0	5210.6	5332.0	5430.6	5519.4	5595.2	5654.3	5703.4
37.5°	4782.8	4977.9	5146.1	5296.0	5423.8	5539.3	5636.5	5720.3	5794.3	5847.8	5892.5
35°	4997.5	5180.1	5345.6	5486.2	5613.4	5721.6	5816.5	5892.0	5959.2	6012.3	6055.3
32.5°	5180.1	5360.9	5517.8	5655.9	5779.6	5878.5	5968.0	6040.7	6105.1	6155.3	6192.3
30°	5345.6	5517.8	5670.1	5806.3	5916.4	6014.6	6099.7	6168.3	6223.4	6269.0	6300.7
27.5°	5486.2	5655.9	5806.3	5929.1	6037.9	6135.4	6207.6	6271.0	6317.8	6358.9	6386.3
25°	5613.4	5779.6	5916.4	6037.9	6145.1	6227.6	6295.4	6351.6	6393.2	6428.6	6449.3
22.5°	5721.6	5878.5	6014.6	6135.4	6227.6	6303.7	6366.8	6414.5	6449.0	6471.0	6484.1
20°	5816.5	5968.0	6099.7	6207.6	6295.4	6366.8	6421.7	6457.6	6482.4	6490.4	6495.0
17.5°	5892.0	6040.7	6168.3	6271.0	6351.6	6414.5	6457.6	6483.9	6493.7	6491.3	6485.8
15°	5959.2	6105.1	6223.4	6317.8	6393.2	6449.0	6482.4	6493.7	6490.1	6477.9	6458.1
12.5°	6012.3	6155.3	6269.0	6358.9	6428.6	6471.0	6490.4	6491.3	6477.9	6453.2	6428.4
10°	6055.3	6192.3	6300.7	6386.3	6449.3	6484.1	6495.0	6485.8	6458.1	6428.4	6404.1
7.5°	6089.3	6221.6	6325.9	6408.1	6463.0	6489.2	6491.0	6471.9	6440.2	6408.9	6386.2
5°	6113.8	6242.9	6344.2	6424.0	6473.1	6492.9	6488.0	6460.9	6425.9	6396.9	6370.8
2.5°	6128.7	6255.8	6355.4	6433.7	6479.2	6495.2	6486.1	6454.1	6417.0	6389.2	6360.6
0°	6133.7	6260.1	6359.1	6437.0	6481.3	6496.0	6485.5	6451.8	6413.9	6386.5	6357.0
-2.5°	6128.7	6255.8	6355.4	6433.7	6479.2	6495.2	6486.1	6454.1	6417.0	6389.2	6360.6
-5°	6113.8	6242.9	6344.2	6424.0	6473.1	6492.9	6488.0	6460.9	6425.9	6396.9	6370.8
-7.5°	6089.3	6221.6	6325.9	6408.1	6463.0	6489.2	6491.0	6471.9	6440.2	6408.9	6386.2
-10°	6055.3	6192.3	6300.7	6386.3	6449.3	6484.1	6495.0	6485.8	6458.1	6428.4	6404.1
-12.5°	6012.3	6155.3	6269.0	6358.9	6428.6	6471.0	6490.4	6491.3	6477.9	6453.2	6428.4
-15°	5959.2	6105.1	6223.4	6317.8	6393.2	6449.0	6482.4	6493.7	6490.1	6477.9	6458.1



REPORT NUMBER: P687825 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-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°	5721.6	5878.5	6014.6	6135.4	6227.6	6303.7	6366.8	6414.5	6449.0	6471.0	6484.1
-25°	5613.4	5779.6	5916.4	6037.9	6145.1	6227.6	6295.4	6351.6	6393.2	6428.6	6449.3
-27.5°	5486.2	5655.9	5806.3	5929.1	6037.9	6135.4	6207.6	6271.0	6317.8	6358.9	6386.3
-30°	5345.6	5517.8	5670.1	5806.3	5916.4	6014.6	6099.7	6168.3	6223.4	6269.0	6300.7
-32.5°	5180.1	5360.9	5517.8	5655.9	5779.6	5878.5	5968.0	6040.7	6105.1	6155.3	6192.3
-35°	4997.5	5180.1	5345.6	5486.2	5613.4	5721.6	5816.5	5892.0	5959.2	6012.3	6055.3
-37.5°	4782.8	4977.9	5146.1	5296.0	5423.8	5539.3	5636.5	5720.3	5794.3	5847.8	5892.5
-40°	4546.7	4744.7	4919.7	5079.0	5210.6	5332.0	5430.6	5519.4	5595.2	5654.3	5703.4
-42.5°	4291.6	4485.8	4665.3	4824.0	4968.6	5093.7	5197.5	5290.9	5367.8	5430.2	5481.9
-45°	4009.0	4204.3	4385.6	4543.5	4690.9	4817.0	4930.4	5032.2	5110.1	5175.4	5229.4
-47.5°	3693.0	3897.5	4075.3	4237.5	4384.7	4510.9	4625.7	4727.2	4809.8	4880.6	4939.2
-50°	3348.4	3553.6	3733.5	3902.2	4046.7	4175.5	4292.6	4392.6	4475.9	4547.1	4606.0
-52.5°	2974.9	3172.0	3357.4	3527.2	3672.1	3805.2	3925.9	4024.3	4108.8	4180.9	4240.5
-55°	2585.3	2772.4	2948.5	3109.8	3258.0	3394.1	3515.1	3614.0	3700.7	3774.7	3835.7
-57.5°	2207.0	2369.3	2524.7	2675.9	2815.8	2944.0	3058.2	3158.7	3246.7	3321.7	3383.5
-60°	1859.6	1981.2	2118.7	2248.9	2369.3	2479.6	2585.3	2679.5	2761.7	2831.9	2889.6
-62.5°	1558.8	1659.2	1763.0	1859.6	1948.9	2039.5	2129.8	2210.0	2280.2	2339.9	2389.1
-65°	1318.1	1394.7	1466.5	1533.3	1595.7	1669.2	1735.6	1794.6	1846.1	1889.9	1926.0
-67.5°	1120.7	1174.6	1225.0	1271.9	1322.9	1373.1	1418.4	1458.7	1493.9	1523.8	1548.4
-70°	949.5	988.7	1025.5	1062.3	1100.5	1135.3	1166.7	1194.6	1218.9	1239.6	1256.6
-72.5°	794.6	826.3	856.4	886.1	913.4	938.4	960.9	980.8	998.2	1013.0	1025.2
-75°	650.1	673.5	698.8	722.2	743.8	763.4	781.2	796.9	810.6	822.2	831.8
-77.5°	528.8	547.1	564.2	580.0	594.6	607.9	619.9	630.5	639.7	647.6	654.1
-80°	400.9	416.3	430.7	444.1	456.4	467.6	477.6	486.6	494.4	501.0	506.4
-82.5°	277.7	288.5	298.5	307.9	316.4	324.2	331.3	337.5	342.9	347.6	351.3
-85°	165.6	171.6	177.3	182.5	187.3	191.6	195.6	199.1	202.1	204.7	206.8
-87.5°	70.8	72.9	74.8	76.6	78.3	79.8	81.2	82.4	83.5	84.4	85.1
-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: P687825 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-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°	85.7	86.1	86.3	86.4	86.3	86.1	85.7	85.1	84.4	83.5	82.4
85°	208.5	209.7	210.4	210.6	210.4	209.7	208.5	206.8	204.7	202.1	199.1
82.5°	354.3	356.4	357.7	358.1	357.7	356.4	354.3	351.3	347.6	342.9	337.5
80°	510.6	513.7	515.5	516.1	515.5	513.7	510.6	506.4	501.0	494.4	486.6
77.5°	659.1	662.7	664.9	665.6	664.9	662.7	659.1	654.1	647.6	639.7	630.5
75°	839.3	844.6	847.8	848.9	847.8	844.6	839.3	831.8	822.2	810.6	796.9
72.5°	1034.7	1041.5	1045.5	1046.9	1045.5	1041.5	1034.7	1025.2	1013.0	998.2	980.8
70°	1269.9	1279.4	1285.1	1287.0	1285.1	1279.4	1269.9	1256.6	1239.6	1218.9	1194.6
67.5°	1567.6	1581.4	1589.6	1592.4	1589.6	1581.4	1567.6	1548.4	1523.8	1493.9	1458.7
65°	1954.1	1974.3	1986.5	1990.5	1986.5	1974.3	1954.1	1926.0	1889.9	1846.1	1794.6
62.5°	2427.5	2455.0	2471.6	2477.1	2471.6	2455.0	2427.5	2389.1	2339.9	2280.2	2210.0
60°	2934.8	2967.1	2986.6	2993.1	2986.6	2967.1	2934.8	2889.6	2831.9	2761.7	2679.5
57.5°	3431.9	3466.6	3487.4	3494.4	3487.4	3466.6	3431.9	3383.5	3321.7	3246.7	3158.7
55°	3883.4	3917.7	3938.3	3945.2	3938.3	3917.7	3883.4	3835.7	3774.7	3700.7	3614.0
52.5°	4287.1	4320.6	4340.8	4347.5	4340.8	4320.6	4287.1	4240.5	4180.9	4108.8	4024.3
50°	4652.1	4685.3	4705.2	4711.9	4705.2	4685.3	4652.1	4606.0	4547.1	4475.9	4392.6
47.5°	4985.1	5018.1	5038.1	5044.7	5038.1	5018.1	4985.1	4939.2	4880.6	4809.8	4727.2
45°	5271.9	5302.4	5320.8	5327.0	5320.8	5302.4	5271.9	5229.4	5175.4	5110.1	5032.2
42.5°	5522.6	5551.9	5569.6	5575.5	5569.6	5551.9	5522.6	5481.9	5430.2	5367.8	5290.9
40°	5742.1	5770.0	5786.9	5792.5	5786.9	5770.0	5742.1	5703.4	5654.3	5595.2	5519.4
37.5°	5927.7	5953.1	5968.5	5973.6	5968.5	5953.1	5927.7	5892.5	5847.8	5794.3	5720.3
35°	6089.3	6113.8	6128.7	6133.7	6128.7	6113.8	6089.3	6055.3	6012.3	5959.2	5892.0
32.5°	6221.6	6242.9	6255.8	6260.1	6255.8	6242.9	6221.6	6192.3	6155.3	6105.1	6040.7
30°	6325.9	6344.2	6355.4	6359.1	6355.4	6344.2	6325.9	6300.7	6269.0	6223.4	6168.3
27.5°	6408.1	6424.0	6433.7	6437.0	6433.7	6424.0	6408.1	6386.3	6358.9	6317.8	6271.0
25°	6463.0	6473.1	6479.2	6481.3	6479.2	6473.1	6463.0	6449.3	6428.6	6393.2	6351.6
22.5°	6489.2	6492.9	6495.2	6496.0	6495.2	6492.9	6489.2	6484.1	6471.0	6449.0	6414.5
20°	6491.0	6488.0	6486.1	6485.5	6486.1	6488.0	6491.0	6495.0	6490.4	6482.4	6457.6
17.5°	6471.9	6460.9	6454.1	6451.8	6454.1	6460.9	6471.9	6485.8	6491.3	6493.7	6483.9
15°	6440.2	6425.9	6417.0	6413.9	6417.0	6425.9	6440.2	6458.1	6477.9	6490.1	6493.7
12.5°	6408.9	6396.9	6389.2	6386.5	6389.2	6396.9	6408.9	6428.4	6453.2	6477.9	6491.3
10°	6386.2	6370.8	6360.6	6357.0	6360.6	6370.8	6386.2	6404.1	6428.4	6458.1	6485.8
7.5°	6364.0	6347.8	6337.5	6333.8	6337.5	6347.8	6364.0	6386.2	6408.9	6440.2	6471.9
5°	6347.8	6331.3	6322.6	6319.1	6322.6	6331.3	6347.8	6370.8	6396.9	6425.9	6460.9
2.5°	6337.5	6322.6	6315.4	6312.8	6315.4	6322.6	6337.5	6360.6	6389.2	6417.0	6454.1
0°	6333.8	6319.1	6312.8	6308.5	6312.8	6319.1	6333.8	6357.0	6386.5	6413.9	6451.8
-2.5°	6337.5	6322.6	6315.4	6312.8	6315.4	6322.6	6337.5	6360.6	6389.2	6417.0	6454.1
-5°	6347.8	6331.3	6322.6	6319.1	6322.6	6331.3	6347.8	6370.8	6396.9	6425.9	6460.9
-7.5°	6364.0	6347.8	6337.5	6333.8	6337.5	6347.8	6364.0	6386.2	6408.9	6440.2	6471.9
-10°	6386.2	6370.8	6360.6	6357.0	6360.6	6370.8	6386.2	6404.1	6428.4	6458.1	6485.8
-12.5°	6408.9	6396.9	6389.2	6386.5	6389.2	6396.9	6408.9	6428.4	6453.2	6477.9	6491.3
-15°	6440.2	6425.9	6417.0	6413.9	6417.0	6425.9	6440.2	6458.1	6477.9	6490.1	6493.7



REPORT NUMBER: P687825 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-VN-04-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°	6489.2	6492.9	6495.2	6496.0	6495.2	6492.9	6489.2	6484.1	6471.0	6449.0	6414.5
-25°	6463.0	6473.1	6479.2	6481.3	6479.2	6473.1	6463.0	6449.3	6428.6	6393.2	6351.6
-27.5°	6408.1	6424.0	6433.7	6437.0	6433.7	6424.0	6408.1	6386.3	6358.9	6317.8	6271.0
-30°	6325.9	6344.2	6355.4	6359.1	6355.4	6344.2	6325.9	6300.7	6269.0	6223.4	6168.3
-32.5°	6221.6	6242.9	6255.8	6260.1	6255.8	6242.9	6221.6	6192.3	6155.3	6105.1	6040.7
-35°	6089.3	6113.8	6128.7	6133.7	6128.7	6113.8	6089.3	6055.3	6012.3	5959.2	5892.0
-37.5°	5927.7	5953.1	5968.5	5973.6	5968.5	5953.1	5927.7	5892.5	5847.8	5794.3	5720.3
-40°	5742.1	5770.0	5786.9	5792.5	5786.9	5770.0	5742.1	5703.4	5654.3	5595.2	5519.4
-42.5°	5522.6	5551.9	5569.6	5575.5	5569.6	5551.9	5522.6	5481.9	5430.2	5367.8	5290.9
-45°	5271.9	5302.4	5320.8	5327.0	5320.8	5302.4	5271.9	5229.4	5175.4	5110.1	5032.2
-47.5°	4985.1	5018.1	5038.1	5044.7	5038.1	5018.1	4985.1	4939.2	4880.6	4809.8	4727.2
-50°	4652.1	4685.3	4705.2	4711.9	4705.2	4685.3	4652.1	4606.0	4547.1	4475.9	4392.6
-52.5°	4287.1	4320.6	4340.8	4347.5	4340.8	4320.6	4287.1	4240.5	4180.9	4108.8	4024.3
-55°	3883.4	3917.7	3938.3	3945.2	3938.3	3917.7	3883.4	3835.7	3774.7	3700.7	3614.0
-57.5°	3431.9	3466.6	3487.4	3494.4	3487.4	3466.6	3431.9	3383.5	3321.7	3246.7	3158.7
-60°	2934.8	2967.1	2986.6	2993.1	2986.6	2967.1	2934.8	2889.6	2831.9	2761.7	2679.5
-62.5°	2427.5	2455.0	2471.6	2477.1	2471.6	2455.0	2427.5	2389.1	2339.9	2280.2	2210.0
-65°	1954.1	1974.3	1986.5	1990.5	1986.5	1974.3	1954.1	1926.0	1889.9	1846.1	1794.6
-67.5°	1567.6	1581.4	1589.6	1592.4	1589.6	1581.4	1567.6	1548.4	1523.8	1493.9	1458.7
-70°	1269.9	1279.4	1285.1	1287.0	1285.1	1279.4	1269.9	1256.6	1239.6	1218.9	1194.6
-72.5°	1034.7	1041.5	1045.5	1046.9	1045.5	1041.5	1034.7	1025.2	1013.0	998.2	980.8
-75°	839.3	844.6	847.8	848.9	847.8	844.6	839.3	831.8	822.2	810.6	796.9
-77.5°	659.1	662.7	664.9	665.6	664.9	662.7	659.1	654.1	647.6	639.7	630.5
-80°	510.6	513.7	515.5	516.1	515.5	513.7	510.6	506.4	501.0	494.4	486.6
-82.5°	354.3	356.4	357.7	358.1	357.7	356.4	354.3	351.3	347.6	342.9	337.5
-85°	208.5	209.7	210.4	210.6	210.4	209.7	208.5	206.8	204.7	202.1	199.1
-87.5°	85.7	86.1	86.3	86.4	86.3	86.1	85.7	85.1	84.4	83.5	82.4
-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: P687825 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-VN-04-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°	81.2	79.8	78.3	76.6	74.8	72.9	70.8	68.5	66.2	63.7	61.1
85°	195.6	191.6	187.3	182.5	177.3	171.6	165.6	159.2	152.4	145.2	137.7
82.5°	331.3	324.2	316.4	307.9	298.5	288.5	277.7	266.3	254.2	241.4	228.0
80°	477.6	467.6	456.4	444.1	430.7	416.3	400.9	384.5	367.2	349.6	331.7
77.5°	619.9	607.9	594.6	580.0	564.2	547.1	528.8	509.0	487.3	464.4	440.5
75°	781.2	763.4	743.8	722.2	698.8	673.5	650.1	626.7	602.0	575.9	548.7
72.5°	960.9	938.4	913.4	886.1	856.4	826.3	794.6	761.1	725.6	688.3	652.2
70°	1166.7	1135.3	1100.5	1062.3	1025.5	988.7	949.5	907.8	863.9	820.0	775.2
67.5°	1418.4	1373.1	1322.9	1271.9	1225.0	1174.6	1120.7	1063.6	1011.0	958.8	904.3
65°	1735.6	1669.2	1595.7	1533.3	1466.5	1394.7	1318.1	1247.6	1180.3	1109.8	1038.0
62.5°	2129.8	2039.5	1948.9	1859.6	1763.0	1659.2	1558.8	1469.0	1374.3	1277.7	1196.4
60°	2585.3	2479.6	2369.3	2248.9	2118.7	1981.2	1859.6	1731.0	1595.7	1486.3	1373.1
57.5°	3058.2	2944.0	2815.8	2675.9	2524.7	2369.3	2207.0	2035.5	1879.8	1725.7	1571.5
55°	3515.1	3394.1	3258.0	3109.8	2948.5	2772.4	2585.3	2393.0	2197.7	1993.8	1819.7
52.5°	3925.9	3805.2	3672.1	3527.2	3357.4	3172.0	2974.9	2761.7	2538.4	2315.2	2087.2
50°	4292.6	4175.5	4046.7	3902.2	3733.5	3553.6	3348.4	3125.6	2889.6	2639.9	2386.4
47.5°	4625.7	4510.9	4384.7	4237.5	4075.3	3897.5	3693.0	3476.5	3227.1	2967.1	2691.0
45°	4930.4	4817.0	4690.9	4543.5	4385.6	4204.3	4009.0	3787.2	3548.1	3278.2	2993.1
42.5°	5197.5	5093.7	4968.6	4824.0	4665.3	4485.8	4291.6	4073.5	3834.8	3571.5	3278.2
40°	5430.6	5332.0	5210.6	5079.0	4919.7	4744.7	4546.7	4335.7	4095.2	3834.8	3548.1
37.5°	5636.5	5539.3	5423.8	5296.0	5146.1	4977.9	4782.8	4567.1	4335.7	4073.5	3787.2
35°	5816.5	5721.6	5613.4	5486.2	5345.6	5180.1	4997.5	4782.8	4546.7	4291.6	4009.0
32.5°	5968.0	5878.5	5779.6	5655.9	5517.8	5360.9	5180.1	4977.9	4744.7	4485.8	4204.3
30°	6099.7	6014.6	5916.4	5806.3	5670.1	5517.8	5345.6	5146.1	4919.7	4665.3	4385.6
27.5°	6207.6	6135.4	6037.9	5929.1	5806.3	5655.9	5486.2	5296.0	5079.0	4824.0	4543.5
25°	6295.4	6227.6	6145.1	6037.9	5916.4	5779.6	5613.4	5423.8	5210.6	4968.6	4690.9
22.5°	6366.8	6303.7	6227.6	6135.4	6014.6	5878.5	5721.6	5539.3	5332.0	5093.7	4817.0
20°	6421.7	6366.8	6295.4	6207.6	6099.7	5968.0	5816.5	5636.5	5430.6	5197.5	4930.4
17.5°	6457.6	6414.5	6351.6	6271.0	6168.3	6040.7	5892.0	5720.3	5519.4	5290.9	5032.2
15°	6482.4	6449.0	6393.2	6317.8	6223.4	6105.1	5959.2	5794.3	5595.2	5367.8	5110.1
12.5°	6490.4	6471.0	6428.6	6358.9	6269.0	6155.3	6012.3	5847.8	5654.3	5430.2	5175.4
10°	6495.0	6484.1	6449.3	6386.3	6300.7	6192.3	6055.3	5892.5	5703.4	5481.9	5229.4
7.5°	6491.0	6489.2	6463.0	6408.1	6325.9	6221.6	6089.3	5927.7	5742.1	5522.6	5271.9
5°	6488.0	6492.9	6473.1	6424.0	6344.2	6242.9	6113.8	5953.1	5770.0	5551.9	5302.4
2.5°	6486.1	6495.2	6479.2	6433.7	6355.4	6255.8	6128.7	5968.5	5786.9	5569.6	5320.8
0°	6485.5	6496.0	6481.3	6437.0	6359.1	6260.1	6133.7	5973.6	5792.5	5575.5	5327.0
-2.5°	6486.1	6495.2	6479.2	6433.7	6355.4	6255.8	6128.7	5968.5	5786.9	5569.6	5320.8
-5°	6488.0	6492.9	6473.1	6424.0	6344.2	6242.9	6113.8	5953.1	5770.0	5551.9	5302.4
-7.5°	6491.0	6489.2	6463.0	6408.1	6325.9	6221.6	6089.3	5927.7	5742.1	5522.6	5271.9
-10°	6495.0	6484.1	6449.3	6386.3	6300.7	6192.3	6055.3	5892.5	5703.4	5481.9	5229.4
-12.5°	6490.4	6471.0	6428.6	6358.9	6269.0	6155.3	6012.3	5847.8	5654.3	5430.2	5175.4
-15°	6482.4	6449.0	6393.2	6317.8	6223.4	6105.1	5959.2	5794.3	5595.2	5367.8	5110.1



REPORT NUMBER: P687825 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-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°	6366.8	6303.7	6227.6	6135.4	6014.6	5878.5	5721.6	5539.3	5332.0	5093.7	4817.0
-25°	6295.4	6227.6	6145.1	6037.9	5916.4	5779.6	5613.4	5423.8	5210.6	4968.6	4690.9
-27.5°	6207.6	6135.4	6037.9	5929.1	5806.3	5655.9	5486.2	5296.0	5079.0	4824.0	4543.5
-30°	6099.7	6014.6	5916.4	5806.3	5670.1	5517.8	5345.6	5146.1	4919.7	4665.3	4385.6
-32.5°	5968.0	5878.5	5779.6	5655.9	5517.8	5360.9	5180.1	4977.9	4744.7	4485.8	4204.3
-35°	5816.5	5721.6	5613.4	5486.2	5345.6	5180.1	4997.5	4782.8	4546.7	4291.6	4009.0
-37.5°	5636.5	5539.3	5423.8	5296.0	5146.1	4977.9	4782.8	4567.1	4335.7	4073.5	3787.2
-40°	5430.6	5332.0	5210.6	5079.0	4919.7	4744.7	4546.7	4335.7	4095.2	3834.8	3548.1
-42.5°	5197.5	5093.7	4968.6	4824.0	4665.3	4485.8	4291.6	4073.5	3834.8	3571.5	3278.2
-45°	4930.4	4817.0	4690.9	4543.5	4385.6	4204.3	4009.0	3787.2	3548.1	3278.2	2993.1
-47.5°	4625.7	4510.9	4384.7	4237.5	4075.3	3897.5	3693.0	3476.5	3227.1	2967.1	2691.0
-50°	4292.6	4175.5	4046.7	3902.2	3733.5	3553.6	3348.4	3125.6	2889.6	2639.9	2386.4
-52.5°	3925.9	3805.2	3672.1	3527.2	3357.4	3172.0	2974.9	2761.7	2538.4	2315.2	2087.2
-55°	3515.1	3394.1	3258.0	3109.8	2948.5	2772.4	2585.3	2393.0	2197.7	1993.8	1819.7
-57.5°	3058.2	2944.0	2815.8	2675.9	2524.7	2369.3	2207.0	2035.5	1879.8	1725.7	1571.5
-60°	2585.3	2479.6	2369.3	2248.9	2118.7	1981.2	1859.6	1731.0	1595.7	1486.3	1373.1
-62.5°	2129.8	2039.5	1948.9	1859.6	1763.0	1659.2	1558.8	1469.0	1374.3	1277.7	1196.4
-65°	1735.6	1669.2	1595.7	1533.3	1466.5	1394.7	1318.1	1247.6	1180.3	1109.8	1038.0
-67.5°	1418.4	1373.1	1322.9	1271.9	1225.0	1174.6	1120.7	1063.6	1011.0	958.8	904.3
-70°	1166.7	1135.3	1100.5	1062.3	1025.5	988.7	949.5	907.8	863.9	820.0	775.2
-72.5°	960.9	938.4	913.4	886.1	856.4	826.3	794.6	761.1	725.6	688.3	652.2
-75°	781.2	763.4	743.8	722.2	698.8	673.5	650.1	626.7	602.0	575.9	548.7
-77.5°	619.9	607.9	594.6	580.0	564.2	547.1	528.8	509.0	487.3	464.4	440.5
-80°	477.6	467.6	456.4	444.1	430.7	416.3	400.9	384.5	367.2	349.6	331.7
-82.5°	331.3	324.2	316.4	307.9	298.5	288.5	277.7	266.3	254.2	241.4	228.0
-85°	195.6	191.6	187.3	182.5	177.3	171.6	165.6	159.2	152.4	145.2	137.7
-87.5°	81.2	79.8	78.3	76.6	74.8	72.9	70.8	68.5	66.2	63.7	61.1
-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: P687825 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-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°	58.4	55.5	52.6	49.5	46.4	43.2	39.9	36.5	33.1	29.5	26.0
85°	129.9	121.7	113.3	104.6	95.5	86.3	79.7	73.0	66.1	59.0	51.9
82.5°	214.1	201.3	188.6	175.5	162.0	148.1	133.9	119.3	104.4	89.3	77.7
80°	313.1	293.7	273.6	252.9	231.5	209.7	190.7	171.3	151.5	131.4	110.9
77.5°	415.5	389.5	362.6	336.4	309.6	282.1	254.0	225.2	198.2	173.1	147.6
75°	520.3	489.3	457.0	423.7	389.3	354.3	320.6	286.1	251.0	215.2	184.0
72.5°	619.0	584.6	548.9	511.8	471.7	430.6	388.5	346.4	305.5	263.9	221.7
70°	728.6	680.3	636.7	594.6	551.3	506.4	458.4	409.3	359.4	311.9	263.9
67.5°	847.7	793.2	736.8	678.8	627.7	577.8	526.7	472.3	416.3	359.4	305.5
65°	974.8	909.3	842.2	777.7	711.4	647.6	591.0	533.4	472.3	409.3	346.4
62.5°	1111.9	1028.4	953.9	877.2	802.3	727.8	654.3	591.0	526.7	458.4	388.5
60°	1262.3	1166.7	1068.1	980.8	895.1	810.6	727.8	647.6	577.8	506.4	430.6
57.5°	1443.9	1312.0	1199.8	1090.1	989.8	895.1	802.3	711.4	627.7	551.3	471.7
55°	1640.0	1486.7	1340.3	1210.9	1090.1	980.8	877.2	777.7	678.8	594.6	511.8
52.5°	1876.6	1677.7	1501.0	1340.3	1199.8	1068.1	953.9	842.2	736.8	636.7	548.9
50°	2134.2	1895.7	1677.7	1486.7	1312.0	1166.7	1028.4	909.3	793.2	680.3	584.6
47.5°	2410.2	2134.2	1876.6	1640.0	1443.9	1262.3	1111.9	974.8	847.7	728.6	619.0
45°	2691.0	2386.4	2087.2	1819.7	1571.5	1373.1	1196.4	1038.0	904.3	775.2	652.2
42.5°	2967.1	2639.9	2315.2	1993.8	1725.7	1486.3	1277.7	1109.8	958.8	820.0	688.3
40°	3227.1	2889.6	2538.4	2197.7	1879.8	1595.7	1374.3	1180.3	1011.0	863.9	725.6
37.5°	3476.5	3125.6	2761.7	2393.0	2035.5	1731.0	1469.0	1247.6	1063.6	907.8	761.1
35°	3693.0	3348.4	2974.9	2585.3	2207.0	1859.6	1558.8	1318.1	1120.7	949.5	794.6
32.5°	3897.5	3553.6	3172.0	2772.4	2369.3	1981.2	1659.2	1394.7	1174.6	988.7	826.3
30°	4075.3	3733.5	3357.4	2948.5	2524.7	2118.7	1763.0	1466.5	1225.0	1025.5	856.4
27.5°	4237.5	3902.2	3527.2	3109.8	2675.9	2248.9	1859.6	1533.3	1271.9	1062.3	886.1
25°	4384.7	4046.7	3672.1	3258.0	2815.8	2369.3	1948.9	1595.7	1322.9	1100.5	913.4
22.5°	4510.9	4175.5	3805.2	3394.1	2944.0	2479.6	2039.5	1669.2	1373.1	1135.3	938.4
20°	4625.7	4292.6	3925.9	3515.1	3058.2	2585.3	2129.8	1735.6	1418.4	1166.7	960.9
17.5°	4727.2	4392.6	4024.3	3614.0	3158.7	2679.5	2210.0	1794.6	1458.7	1194.6	980.8
15°	4809.8	4475.9	4108.8	3700.7	3246.7	2761.7	2280.2	1846.1	1493.9	1218.9	998.2
12.5°	4880.6	4547.1	4180.9	3774.7	3321.7	2831.9	2339.9	1889.9	1523.8	1239.6	1013.0
10°	4939.2	4606.0	4240.5	3835.7	3383.5	2889.6	2389.1	1926.0	1548.4	1256.6	1025.2
7.5°	4985.1	4652.1	4287.1	3883.4	3431.9	2934.8	2427.5	1954.1	1567.6	1269.9	1034.7
5°	5018.1	4685.3	4320.6	3917.7	3466.6	2967.1	2455.0	1974.3	1581.4	1279.4	1041.5
2.5°	5038.1	4705.2	4340.8	3938.3	3487.4	2986.6	2471.6	1986.5	1589.6	1285.1	1045.5
0°	5044.7	4711.9	4347.5	3945.2	3494.4	2993.1	2477.1	1990.5	1592.4	1287.0	1046.9
-2.5°	5038.1	4705.2	4340.8	3938.3	3487.4	2986.6	2471.6	1986.5	1589.6	1285.1	1045.5
-5°	5018.1	4685.3	4320.6	3917.7	3466.6	2967.1	2455.0	1974.3	1581.4	1279.4	1041.5
-7.5°	4985.1	4652.1	4287.1	3883.4	3431.9	2934.8	2427.5	1954.1	1567.6	1269.9	1034.7
-10°	4939.2	4606.0	4240.5	3835.7	3383.5	2889.6	2389.1	1926.0	1548.4	1256.6	1025.2
-12.5°	4880.6	4547.1	4180.9	3774.7	3321.7	2831.9	2339.9	1889.9	1523.8	1239.6	1013.0
-15°	4809.8	4475.9	4108.8	3700.7	3246.7	2761.7	2280.2	1846.1	1493.9	1218.9	998.2



REPORT NUMBER: P687825 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-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°	4510.9	4175.5	3805.2	3394.1	2944.0	2479.6	2039.5	1669.2	1373.1	1135.3	938.4
-25°	4384.7	4046.7	3672.1	3258.0	2815.8	2369.3	1948.9	1595.7	1322.9	1100.5	913.4
-27.5°	4237.5	3902.2	3527.2	3109.8	2675.9	2248.9	1859.6	1533.3	1271.9	1062.3	886.1
-30°	4075.3	3733.5	3357.4	2948.5	2524.7	2118.7	1763.0	1466.5	1225.0	1025.5	856.4
-32.5°	3897.5	3553.6	3172.0	2772.4	2369.3	1981.2	1659.2	1394.7	1174.6	988.7	826.3
-35°	3693.0	3348.4	2974.9	2585.3	2207.0	1859.6	1558.8	1318.1	1120.7	949.5	794.6
-37.5°	3476.5	3125.6	2761.7	2393.0	2035.5	1731.0	1469.0	1247.6	1063.6	907.8	761.1
-40°	3227.1	2889.6	2538.4	2197.7	1879.8	1595.7	1374.3	1180.3	1011.0	863.9	725.6
-42.5°	2967.1	2639.9	2315.2	1993.8	1725.7	1486.3	1277.7	1109.8	958.8	820.0	688.3
-45°	2691.0	2386.4	2087.2	1819.7	1571.5	1373.1	1196.4	1038.0	904.3	775.2	652.2
-47.5°	2410.2	2134.2	1876.6	1640.0	1443.9	1262.3	1111.9	974.8	847.7	728.6	619.0
-50°	2134.2	1895.7	1677.7	1486.7	1312.0	1166.7	1028.4	909.3	793.2	680.3	584.6
-52.5°	1876.6	1677.7	1501.0	1340.3	1199.8	1068.1	953.9	842.2	736.8	636.7	548.9
-55°	1640.0	1486.7	1340.3	1210.9	1090.1	980.8	877.2	777.7	678.8	594.6	511.8
-57.5°	1443.9	1312.0	1199.8	1090.1	989.8	895.1	802.3	711.4	627.7	551.3	471.7
-60°	1262.3	1166.7	1068.1	980.8	895.1	810.6	727.8	647.6	577.8	506.4	430.6
-62.5°	1111.9	1028.4	953.9	877.2	802.3	727.8	654.3	591.0	526.7	458.4	388.5
-65°	974.8	909.3	842.2	777.7	711.4	647.6	591.0	533.4	472.3	409.3	346.4
-67.5°	847.7	793.2	736.8	678.8	627.7	577.8	526.7	472.3	416.3	359.4	305.5
-70°	728.6	680.3	636.7	594.6	551.3	506.4	458.4	409.3	359.4	311.9	263.9
-72.5°	619.0	584.6	548.9	511.8	471.7	430.6	388.5	346.4	305.5	263.9	221.7
-75°	520.3	489.3	457.0	423.7	389.3	354.3	320.6	286.1	251.0	215.2	184.0
-77.5°	415.5	389.5	362.6	336.4	309.6	282.1	254.0	225.2	198.2	173.1	147.6
-80°	313.1	293.7	273.6	252.9	231.5	209.7	190.7	171.3	151.5	131.4	110.9
-82.5°	214.1	201.3	188.6	175.5	162.0	148.1	133.9	119.3	104.4	89.3	77.7
-85°	129.9	121.7	113.3	104.6	95.5	86.3	79.7	73.0	66.1	59.0	51.9
-87.5°	58.4	55.5	52.6	49.5	46.4	43.2	39.9	36.5	33.1	29.5	26.0
-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: P687825 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-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°	22.4	18.7	15.0	11.3	7.5	3.8	0.0
85°	44.7	37.4	30.0	22.5	15.0	7.5	0.0
82.5°	66.9	55.9	44.9	33.7	22.5	11.3	0.0
80°	90.2	74.4	59.7	44.9	30.0	15.0	0.0
77.5°	121.7	95.6	74.4	55.9	37.4	18.7	0.0
75°	153.0	121.7	90.2	66.9	44.7	22.4	0.0
72.5°	184.0	147.6	110.9	77.7	51.9	26.0	0.0
70°	215.2	173.1	131.4	89.3	59.0	29.5	0.0
67.5°	251.0	198.2	151.5	104.4	66.1	33.1	0.0
65°	286.1	225.2	171.3	119.3	73.0	36.5	0.0
62.5°	320.6	254.0	190.7	133.9	79.7	39.9	0.0
60°	354.3	282.1	209.7	148.1	86.3	43.2	0.0
57.5°	389.3	309.6	231.5	162.0	95.5	46.4	0.0
55°	423.7	336.4	252.9	175.5	104.6	49.5	0.0
52.5°	457.0	362.6	273.6	188.6	113.3	52.6	0.0
50°	489.3	389.5	293.7	201.3	121.7	55.5	0.0
47.5°	520.3	415.5	313.1	214.1	129.9	58.4	0.0
45°	548.7	440.5	331.7	228.0	137.7	61.1	0.0
42.5°	575.9	464.4	349.6	241.4	145.2	63.7	0.0
40°	602.0	487.3	367.2	254.2	152.4	66.2	0.0
37.5°	626.7	509.0	384.5	266.3	159.2	68.5	0.0
35°	650.1	528.8	400.9	277.7	165.6	70.8	0.0
32.5°	673.5	547.1	416.3	288.5	171.6	72.9	0.0
30°	698.8	564.2	430.7	298.5	177.3	74.8	0.0
27.5°	722.2	580.0	444.1	307.9	182.5	76.6	0.0
25°	743.8	594.6	456.4	316.4	187.3	78.3	0.0
22.5°	763.4	607.9	467.6	324.2	191.6	79.8	0.0
20°	781.2	619.9	477.6	331.3	195.6	81.2	0.0
17.5°	796.9	630.5	486.6	337.5	199.1	82.4	0.0
15°	810.6	639.7	494.4	342.9	202.1	83.5	0.0
12.5°	822.2	647.6	501.0	347.6	204.7	84.4	0.0
10°	831.8	654.1	506.4	351.3	206.8	85.1	0.0
7.5°	839.3	659.1	510.6	354.3	208.5	85.7	0.0
5°	844.6	662.7	513.7	356.4	209.7	86.1	0.0
2.5°	847.8	664.9	515.5	357.7	210.4	86.3	0.0
0°	848.9	665.6	516.1	358.1	210.6	86.4	0.0
-2.5°	847.8	664.9	515.5	357.7	210.4	86.3	0.0
-5°	844.6	662.7	513.7	356.4	209.7	86.1	0.0
-7.5°	839.3	659.1	510.6	354.3	208.5	85.7	0.0
-10°	831.8	654.1	506.4	351.3	206.8	85.1	0.0
-12.5°	822.2	647.6	501.0	347.6	204.7	84.4	0.0
-15°	810.6	639.7	494.4	342.9	202.1	83.5	0.0

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REPORT NUMBER: P687825 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-3000K-LAM

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	763.4	607.9	467.6	324.2	191.6	79.8	0.0
-25°	743.8	594.6	456.4	316.4	187.3	78.3	0.0
-27.5°	722.2	580.0	444.1	307.9	182.5	76.6	0.0
-30°	698.8	564.2	430.7	298.5	177.3	74.8	0.0
-32.5°	673.5	547.1	416.3	288.5	171.6	72.9	0.0
-35°	650.1	528.8	400.9	277.7	165.6	70.8	0.0
-37.5°	626.7	509.0	384.5	266.3	159.2	68.5	0.0
-40°	602.0	487.3	367.2	254.2	152.4	66.2	0.0
-42.5°	575.9	464.4	349.6	241.4	145.2	63.7	0.0
-45°	548.7	440.5	331.7	228.0	137.7	61.1	0.0
-47.5°	520.3	415.5	313.1	214.1	129.9	58.4	0.0
-50°	489.3	389.5	293.7	201.3	121.7	55.5	0.0
-52.5°	457.0	362.6	273.6	188.6	113.3	52.6	0.0
-55°	423.7	336.4	252.9	175.5	104.6	49.5	0.0
-57.5°	389.3	309.6	231.5	162.0	95.5	46.4	0.0
-60°	354.3	282.1	209.7	148.1	86.3	43.2	0.0
-62.5°	320.6	254.0	190.7	133.9	79.7	39.9	0.0
-65°	286.1	225.2	171.3	119.3	73.0	36.5	0.0
-67.5°	251.0	198.2	151.5	104.4	66.1	33.1	0.0
-70°	215.2	173.1	131.4	89.3	59.0	29.5	0.0
-72.5°	184.0	147.6	110.9	77.7	51.9	26.0	0.0
-75°	153.0	121.7	90.2	66.9	44.7	22.4	0.0
-77.5°	121.7	95.6	74.4	55.9	37.4	18.7	0.0
-80°	90.2	74.4	59.7	44.9	30.0	15.0	0.0
-82.5°	66.9	55.9	44.9	33.7	22.5	11.3	0.0
-85°	44.7	37.4	30.0	22.5	15.0	7.5	0.0
-87.5°	22.4	18.7	15.0	11.3	7.5	3.8	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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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	82.4	199.1	337.5	486.6	630.5	796.9	980.8	1194.6	1458.7	1794.6
-20°	0.0	81.2	195.6	331.3	477.6	619.9	781.2	960.9	1166.7	1418.4	1735.6

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-17.5°	2210.0	2679.5	3158.7	3614.0	4024.3	4392.6	4727.2	5032.2	5290.9	5519.4	5720.3
-20°	2129.8	2585.3	3058.2	3515.1	3925.9	4292.6	4625.7	4930.4	5197.5	5430.6	5636.5

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-17.5°	5892.0	6040.7	6168.3	6271.0	6351.6	6414.5	6457.6	6483.9	6493.7	6491.3	6485.8
-20°	5816.5	5968.0	6099.7	6207.6	6295.4	6366.8	6421.7	6457.6	6482.4	6490.4	6495.0

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-17.5°	6471.9	6460.9	6454.1	6451.8	6454.1	6460.9	6471.9	6485.8	6491.3	6493.7	6483.9
-20°	6491.0	6488.0	6486.1	6485.5	6486.1	6488.0	6491.0	6495.0	6490.4	6482.4	6457.6

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-17.5°	6457.6	6414.5	6351.6	6271.0	6168.3	6040.7	5892.0	5720.3	5519.4	5290.9	5032.2
-20°	6421.7	6366.8	6295.4	6207.6	6099.7	5968.0	5816.5	5636.5	5430.6	5197.5	4930.4

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-17.5°	4727.2	4392.6	4024.3	3614.0	3158.7	2679.5	2210.0	1794.6	1458.7	1194.6	980.8
-20°	4625.7	4292.6	3925.9	3515.1	3058.2	2585.3	2129.8	1735.6	1418.4	1166.7	960.9

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-17.5°	796.9	630.5	486.6	337.5	199.1	82.4	0.0
-20°	781.2	619.9	477.6	331.3	195.6	81.2	0.0

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(END OF REPORT)