

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: P687832 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-VN-08-E-PRO-4000K-LAM**

Issue Date: 5/17/2023



Test Information

Test Method: LM-79-08
Report Number: P687832 (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-08-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: 63726 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: 20691.7 candela
Max Intensity Angle: -22.5°H x 0°V

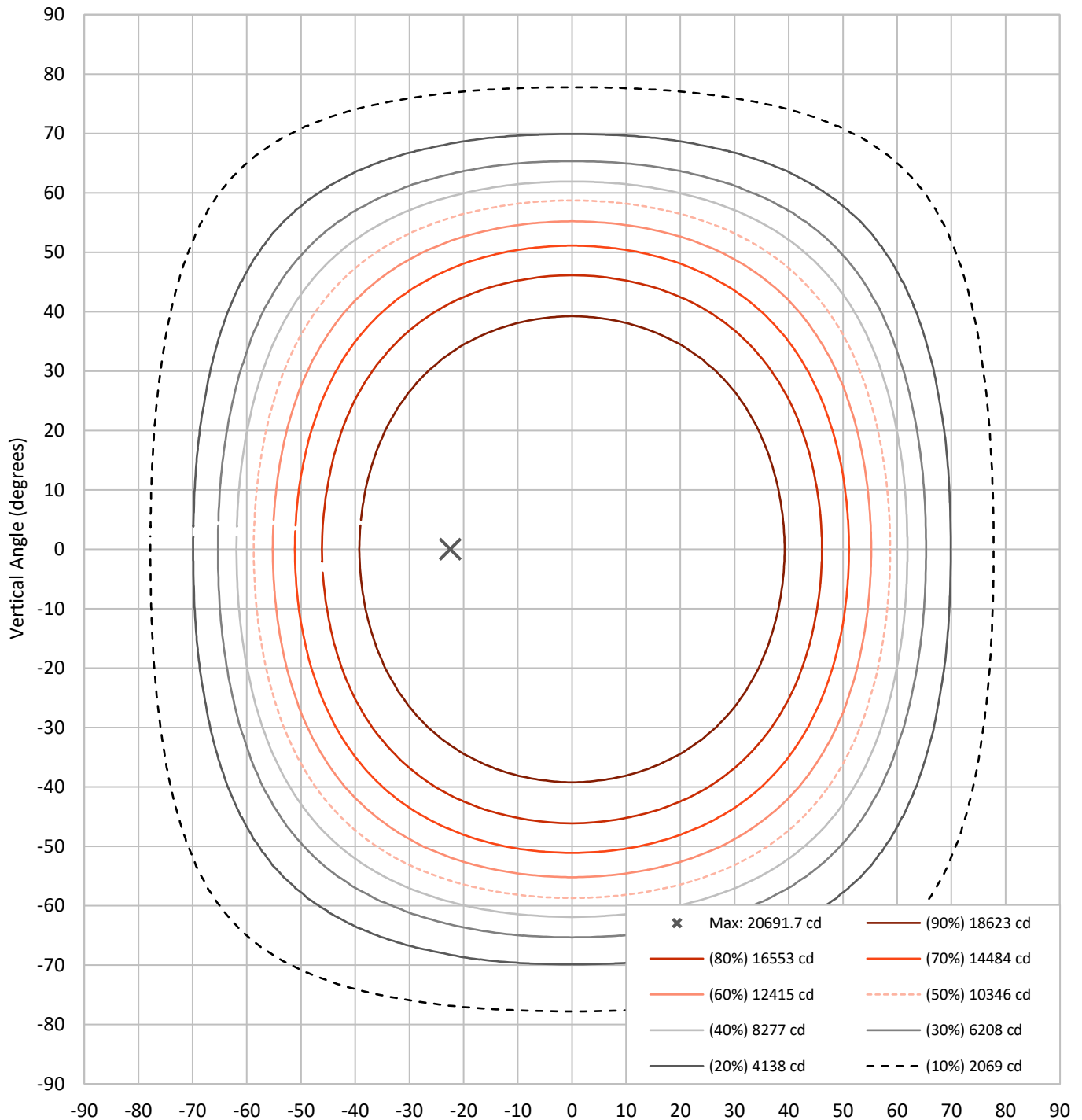
Beam Angle (50%): 117.5°H x 111.6°V
Beam Lumens: 52153.6 lumens
Beam Efficiency: 81.8%

Field Angle (10%): 155.5°H x 153.7°V
Field Lumens: 62503.7 lumens
Field Efficiency: 98.1%

Input Watts (W): 499
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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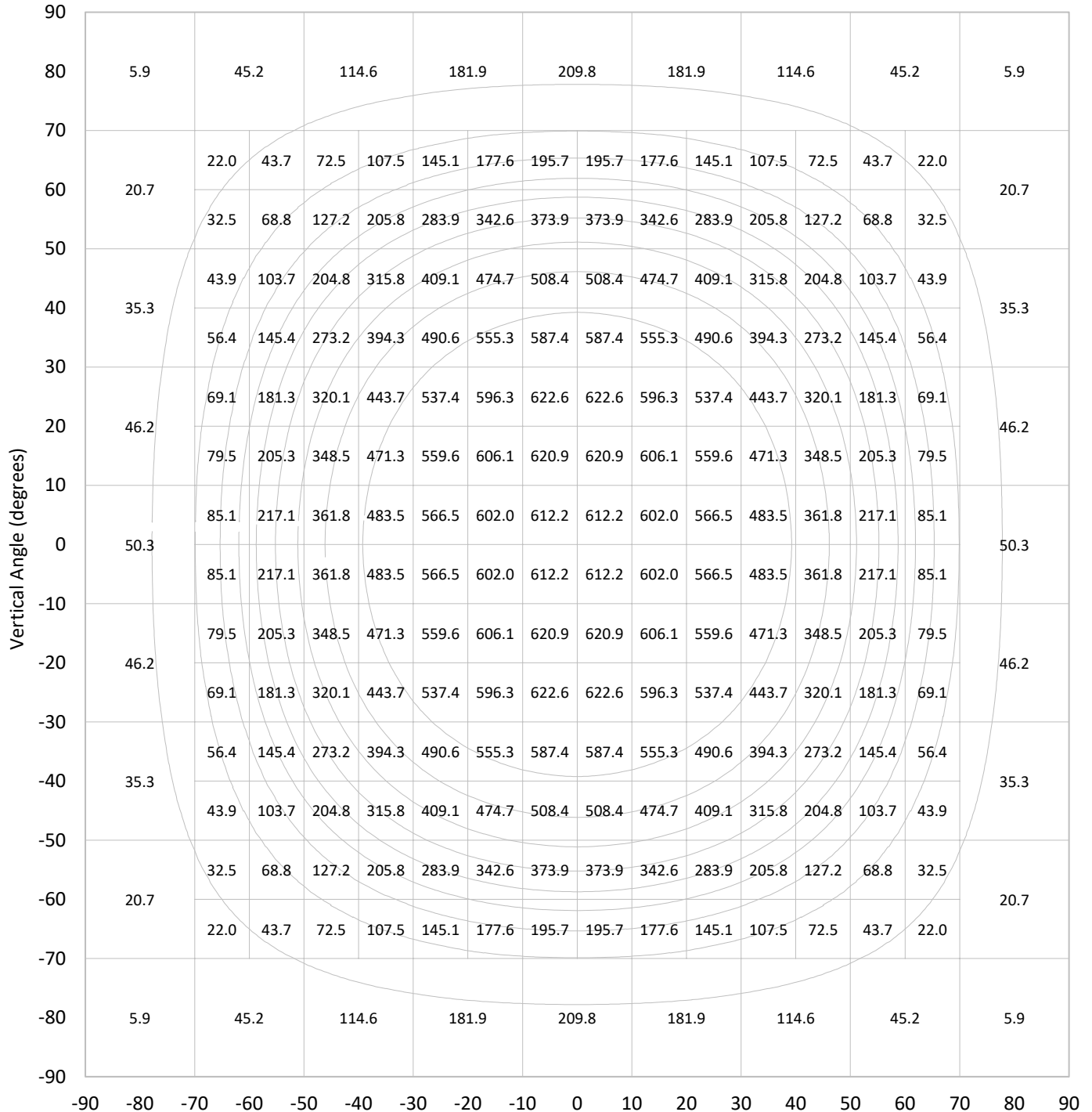
Iso-Candela Plot





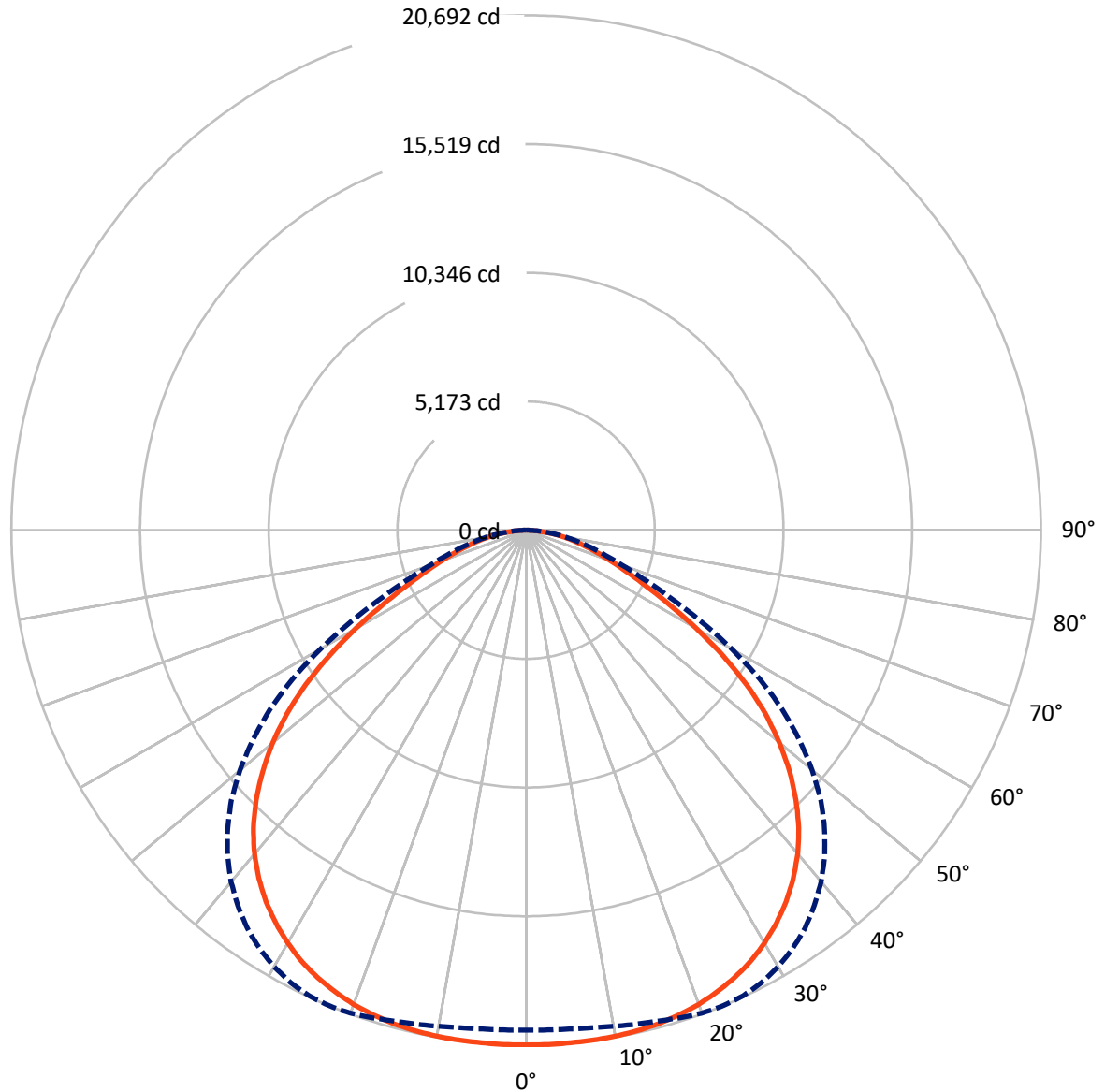
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Lumen Table



REPORT NUMBER: P687832 (CONVERTED FROM TYPE C PHOTOMETRY)
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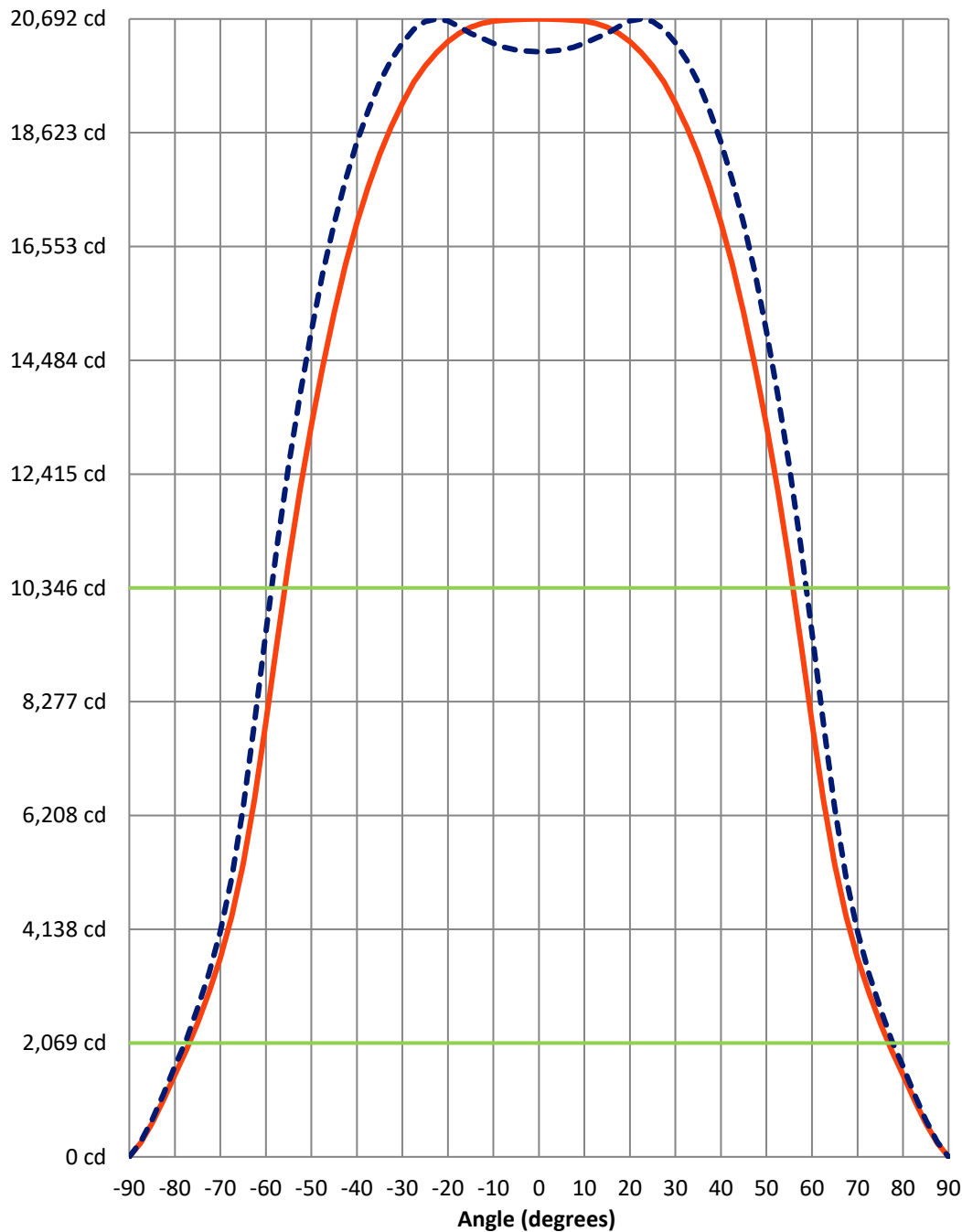
Luminous Intensity Polar Plot



— 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: 52153.6
 Efficiency: 81.8%

Field:
 H Angle: 155.5°
 V Angle: 153.7°
 Lumens: 62503.7
 Efficiency: 98.1%

Spill:
 Lumens: 1222.4
 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	12.0	24.0	35.9	47.8	59.5	71.2	82.7	94.1	105.2	116.2
85°	0.0	24.0	47.9	71.7	95.4	118.9	142.2	165.3	188.0	210.3	232.3
82.5°	0.0	35.9	71.7	107.4	142.9	178.1	213.0	247.5	284.4	332.6	379.9
80°	0.0	47.8	95.4	142.9	190.1	237.0	287.1	353.2	418.4	482.5	545.6
77.5°	0.0	59.5	118.9	178.1	237.0	304.4	387.7	470.1	551.4	631.5	717.5
75°	0.0	71.2	142.2	213.0	287.1	387.7	487.4	586.0	685.7	799.5	911.3
72.5°	0.0	82.7	165.3	247.5	353.2	470.1	586.0	706.2	840.6	973.0	1103.2
70°	0.0	94.1	188.0	284.4	418.4	551.4	685.7	840.6	993.6	1144.8	1303.8
67.5°	0.0	105.2	210.3	332.6	482.5	631.5	799.5	973.0	1144.8	1326.0	1504.4
65°	0.0	116.2	232.3	379.9	545.6	717.5	911.3	1103.2	1303.8	1504.4	1698.8
62.5°	0.0	127.0	253.8	426.3	607.4	809.1	1021.1	1237.5	1460.0	1677.7	1882.6
60°	0.0	137.5	274.8	471.7	667.9	898.7	1128.5	1371.5	1612.9	1840.3	2062.9
57.5°	0.0	147.8	304.2	516.0	737.3	986.2	1240.0	1502.5	1756.1	1999.3	2266.1
55°	0.0	157.8	333.0	559.1	805.5	1071.3	1349.4	1630.1	1894.1	2162.1	2477.1
52.5°	0.0	167.4	360.8	600.8	871.6	1155.0	1455.7	1748.2	2028.2	2347.0	2682.5
50°	0.0	176.8	387.8	641.3	935.6	1240.7	1558.6	1862.0	2166.9	2526.5	2896.3
47.5°	0.0	185.8	413.7	682.0	997.3	1323.4	1657.2	1971.8	2320.9	2700.0	3105.0
45°	0.0	194.5	438.7	726.5	1056.6	1403.0	1747.7	2077.6	2469.4	2880.5	3306.3
42.5°	0.0	202.8	462.6	769.0	1113.5	1479.2	1834.5	2192.4	2611.8	3054.1	3534.9
40°	0.0	210.7	485.4	809.7	1169.6	1552.0	1917.4	2311.2	2751.6	3220.3	3759.7
37.5°	0.0	218.2	507.0	848.2	1224.8	1621.1	1996.2	2424.2	2891.6	3387.9	3973.9
35°	0.0	225.3	527.5	884.7	1277.0	1684.3	2070.7	2531.1	3024.3	3569.8	4198.4
32.5°	0.0	232.0	546.7	918.9	1326.1	1742.5	2145.5	2631.8	3149.3	3741.3	4442.4
30°	0.0	238.2	564.6	950.9	1371.9	1796.9	2225.9	2727.8	3266.3	3902.0	4671.1
27.5°	0.0	244.0	581.3	980.6	1414.4	1847.4	2300.5	2822.4	3383.7	4051.4	4884.0
25°	0.0	249.3	596.6	1007.9	1453.5	1893.9	2369.2	2909.5	3505.2	4213.6	5083.0
22.5°	0.0	254.1	610.5	1032.8	1489.2	1936.3	2431.8	2989.0	3616.1	4373.7	5317.0
20°	0.0	258.5	623.0	1055.2	1521.3	1974.4	2488.2	3060.6	3716.2	4518.1	5528.3
17.5°	0.0	262.4	634.2	1075.0	1549.8	2008.3	2538.3	3124.1	3805.0	4646.5	5716.2
15°	0.0	265.7	643.9	1092.3	1574.5	2037.8	2581.9	3179.6	3882.5	4758.5	5880.3
12.5°	0.0	268.6	652.1	1107.0	1595.6	2062.9	2619.0	3226.7	3948.4	4853.8	6020.0
10°	0.0	270.9	658.8	1119.1	1612.9	2083.4	2649.5	3265.4	4002.6	4932.2	6134.8
7.5°	0.0	272.7	664.1	1128.5	1626.4	2099.5	2673.2	3295.6	4044.9	4993.3	6224.6
5°	0.0	274.1	667.9	1135.2	1636.1	2111.0	2690.3	3317.3	4075.1	5037.2	6288.9
2.5°	0.0	274.8	670.1	1139.3	1641.9	2117.9	2700.5	3330.3	4093.3	5063.5	6327.5
0°	0.0	275.1	670.9	1140.6	1643.8	2120.2	2703.9	3334.6	4099.4	5072.3	6340.4
-2.5°	0.0	274.8	670.1	1139.3	1641.9	2117.9	2700.5	3330.3	4093.3	5063.5	6327.5
-5°	0.0	274.1	667.9	1135.2	1636.1	2111.0	2690.3	3317.3	4075.1	5037.2	6288.9
-7.5°	0.0	272.7	664.1	1128.5	1626.4	2099.5	2673.2	3295.6	4044.9	4993.3	6224.6
-10°	0.0	270.9	658.8	1119.1	1612.9	2083.4	2649.5	3265.4	4002.6	4932.2	6134.8
-12.5°	0.0	268.6	652.1	1107.0	1595.6	2062.9	2619.0	3226.7	3948.4	4853.8	6020.0
-15°	0.0	265.7	643.9	1092.3	1574.5	2037.8	2581.9	3179.6	3882.5	4758.5	5880.3



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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	254.1	610.5	1032.8	1489.2	1936.3	2431.8	2989.0	3616.1	4373.7	5317.0
-25°	0.0	249.3	596.6	1007.9	1453.5	1893.9	2369.2	2909.5	3505.2	4213.6	5083.0
-27.5°	0.0	244.0	581.3	980.6	1414.4	1847.4	2300.5	2822.4	3383.7	4051.4	4884.0
-30°	0.0	238.2	564.6	950.9	1371.9	1796.9	2225.9	2727.8	3266.3	3902.0	4671.1
-32.5°	0.0	232.0	546.7	918.9	1326.1	1742.5	2145.5	2631.8	3149.3	3741.3	4442.4
-35°	0.0	225.3	527.5	884.7	1277.0	1684.3	2070.7	2531.1	3024.3	3569.8	4198.4
-37.5°	0.0	218.2	507.0	848.2	1224.8	1621.1	1996.2	2424.2	2891.6	3387.9	3973.9
-40°	0.0	210.7	485.4	809.7	1169.6	1552.0	1917.4	2311.2	2751.6	3220.3	3759.7
-42.5°	0.0	202.8	462.6	769.0	1113.5	1479.2	1834.5	2192.4	2611.8	3054.1	3534.9
-45°	0.0	194.5	438.7	726.5	1056.6	1403.0	1747.7	2077.6	2469.4	2880.5	3306.3
-47.5°	0.0	185.8	413.7	682.0	997.3	1323.4	1657.2	1971.8	2320.9	2700.0	3105.0
-50°	0.0	176.8	387.8	641.3	935.6	1240.7	1558.6	1862.0	2166.9	2526.5	2896.3
-52.5°	0.0	167.4	360.8	600.8	871.6	1155.0	1455.7	1748.2	2028.2	2347.0	2682.5
-55°	0.0	157.8	333.0	559.1	805.5	1071.3	1349.4	1630.1	1894.1	2162.1	2477.1
-57.5°	0.0	147.8	304.2	516.0	737.3	986.2	1240.0	1502.5	1756.1	1999.3	2266.1
-60°	0.0	137.5	274.8	471.7	667.9	898.7	1128.5	1371.5	1612.9	1840.3	2062.9
-62.5°	0.0	127.0	253.8	426.3	607.4	809.1	1021.1	1237.5	1460.0	1677.7	1882.6
-65°	0.0	116.2	232.3	379.9	545.6	717.5	911.3	1103.2	1303.8	1504.4	1698.8
-67.5°	0.0	105.2	210.3	332.6	482.5	631.5	799.5	973.0	1144.8	1326.0	1504.4
-70°	0.0	94.1	188.0	284.4	418.4	551.4	685.7	840.6	993.6	1144.8	1303.8
-72.5°	0.0	82.7	165.3	247.5	353.2	470.1	586.0	706.2	840.6	973.0	1103.2
-75°	0.0	71.2	142.2	213.0	287.1	387.7	487.4	586.0	685.7	799.5	911.3
-77.5°	0.0	59.5	118.9	178.1	237.0	304.4	387.7	470.1	551.4	631.5	717.5
-80°	0.0	47.8	95.4	142.9	190.1	237.0	287.1	353.2	418.4	482.5	545.6
-82.5°	0.0	35.9	71.7	107.4	142.9	178.1	213.0	247.5	284.4	332.6	379.9
-85°	0.0	24.0	47.9	71.7	95.4	118.9	142.2	165.3	188.0	210.3	232.3
-87.5°	0.0	12.0	24.0	35.9	47.8	59.5	71.2	82.7	94.1	105.2	116.2
-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: P687832 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-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°	127.0	137.5	147.8	157.8	167.4	176.8	185.8	194.5	202.8	210.7	218.2
85°	253.8	274.8	304.2	333.0	360.8	387.8	413.7	438.7	462.6	485.4	507.0
82.5°	426.3	471.7	516.0	559.1	600.8	641.3	682.0	726.5	769.0	809.7	848.2
80°	607.4	667.9	737.3	805.5	871.6	935.6	997.3	1056.6	1113.5	1169.6	1224.8
77.5°	809.1	898.7	986.2	1071.3	1155.0	1240.7	1323.4	1403.0	1479.2	1552.0	1621.1
75°	1021.1	1128.5	1240.0	1349.4	1455.7	1558.6	1657.2	1747.7	1834.5	1917.4	1996.2
72.5°	1237.5	1371.5	1502.5	1630.1	1748.2	1862.0	1971.8	2077.6	2192.4	2311.2	2424.2
70°	1460.0	1612.9	1756.1	1894.1	2028.2	2166.9	2320.9	2469.4	2611.8	2751.6	2891.6
67.5°	1677.7	1840.3	1999.3	2162.1	2347.0	2526.5	2700.0	2880.5	3054.1	3220.3	3387.9
65°	1882.6	2062.9	2266.1	2477.1	2682.5	2896.3	3105.0	3306.3	3534.9	3759.7	3973.9
62.5°	2084.1	2318.3	2555.6	2794.2	3038.3	3275.5	3541.7	3810.9	4069.9	4377.7	4679.0
60°	2318.3	2581.9	2851.2	3124.1	3402.2	3716.2	4020.7	4373.7	4734.4	5083.0	5513.9
57.5°	2555.6	2851.2	3152.9	3472.2	3821.6	4178.9	4599.2	5005.8	5496.9	5987.9	6483.6
55°	2794.2	3124.1	3472.2	3857.0	4269.3	4735.6	5224.1	5796.4	6350.9	7000.4	7622.4
52.5°	3038.3	3402.2	3821.6	4269.3	4781.2	5344.0	5977.6	6648.3	7374.7	8085.4	8797.0
50°	3275.5	3716.2	4178.9	4735.6	5344.0	6038.3	6798.1	7601.3	8408.7	9204.4	9956.2
47.5°	3541.7	4020.7	4599.2	5224.1	5977.6	6798.1	7677.2	8571.5	9451.3	10279.3	11073.6
45°	3810.9	4373.7	5005.8	5796.4	6648.3	7601.3	8571.5	9534.0	10442.1	11301.8	12063.5
42.5°	4069.9	4734.4	5496.9	6350.9	7374.7	8408.7	9451.3	10442.1	11376.4	12214.9	12975.4
40°	4377.7	5083.0	5987.9	7000.4	8085.4	9204.4	10279.3	11301.8	12214.9	13044.4	13810.5
37.5°	4679.0	5513.9	6483.6	7622.4	8797.0	9956.2	11073.6	12063.5	12975.4	13810.5	14547.6
35°	4965.2	5923.6	7029.9	8235.0	9476.1	10665.8	11763.4	12769.8	13670.1	14482.6	15234.6
32.5°	5285.0	6310.8	7546.9	8830.8	10103.9	11319.3	12414.7	13392.0	14288.6	15113.4	15856.1
30°	5615.6	6748.9	8041.8	9392.0	10694.3	11892.3	12981.1	13969.4	14860.4	15670.7	16391.9
27.5°	5923.6	7163.5	8523.4	9905.6	11235.4	12429.6	13497.8	14472.5	15365.8	16178.2	16869.3
25°	6208.0	7546.9	8969.1	10377.9	11696.8	12890.1	13966.7	14941.9	15826.5	16597.3	17276.4
22.5°	6496.6	7898.3	9377.6	10811.3	12120.7	13300.3	14368.5	15343.6	16225.0	16984.1	17644.2
20°	6783.9	8235.0	9741.3	11196.6	12505.4	13673.1	14734.3	15704.7	16555.6	17297.9	17954.0
17.5°	7039.7	8534.8	10061.5	11511.9	12818.8	13991.8	15057.6	16029.0	16853.1	17581.0	18220.9
15°	7263.0	8797.0	10341.7	11787.9	13087.7	14257.1	15320.8	16277.3	17098.0	17822.3	18456.5
12.5°	7453.3	9020.4	10580.8	12023.6	13317.6	14484.1	15546.3	16485.2	17296.7	18010.6	18627.1
10°	7609.9	9204.4	10777.7	12217.9	13507.3	14671.5	15732.8	16657.3	17461.5	18167.0	18769.3
7.5°	7732.2	9348.2	10931.7	12370.0	13655.8	14818.5	15879.1	16792.5	17591.2	18290.3	18881.4
5°	7819.9	9451.3	11042.2	12479.1	13762.4	14924.1	15984.3	16889.7	17684.5	18379.2	18962.4
2.5°	7872.6	9513.3	11108.6	12544.8	13826.7	14987.7	16047.7	16948.4	17740.9	18432.8	19011.4
0°	7890.2	9534.0	11130.8	12566.7	13848.1	15008.9	16068.9	16968.0	17759.7	18450.8	19027.8
-2.5°	7872.6	9513.3	11108.6	12544.8	13826.7	14987.7	16047.7	16948.4	17740.9	18432.8	19011.4
-5°	7819.9	9451.3	11042.2	12479.1	13762.4	14924.1	15984.3	16889.7	17684.5	18379.2	18962.4
-7.5°	7732.2	9348.2	10931.7	12370.0	13655.8	14818.5	15879.1	16792.5	17591.2	18290.3	18881.4
-10°	7609.9	9204.4	10777.7	12217.9	13507.3	14671.5	15732.8	16657.3	17461.5	18167.0	18769.3
-12.5°	7453.3	9020.4	10580.8	12023.6	13317.6	14484.1	15546.3	16485.2	17296.7	18010.6	18627.1
-15°	7263.0	8797.0	10341.7	11787.9	13087.7	14257.1	15320.8	16277.3	17098.0	17822.3	18456.5



REPORT NUMBER: P687832 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-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°	6496.6	7898.3	9377.6	10811.3	12120.7	13300.3	14368.5	15343.6	16225.0	16984.1	17644.2
-25°	6208.0	7546.9	8969.1	10377.9	11696.8	12890.1	13966.7	14941.9	15826.5	16597.3	17276.4
-27.5°	5923.6	7163.5	8523.4	9905.6	11235.4	12429.6	13497.8	14472.5	15365.8	16178.2	16869.3
-30°	5615.6	6748.9	8041.8	9392.0	10694.3	11892.3	12981.1	13969.4	14860.4	15670.7	16391.9
-32.5°	5285.0	6310.8	7546.9	8830.8	10103.9	11319.3	12414.7	13392.0	14288.6	15113.4	15856.1
-35°	4965.2	5923.6	7029.9	8235.0	9476.1	10665.8	11763.4	12769.8	13670.1	14482.6	15234.6
-37.5°	4679.0	5513.9	6483.6	7622.4	8797.0	9956.2	11073.6	12063.5	12975.4	13810.5	14547.6
-40°	4377.7	5083.0	5987.9	7000.4	8085.4	9204.4	10279.3	11301.8	12214.9	13044.4	13810.5
-42.5°	4069.9	4734.4	5496.9	6350.9	7374.7	8408.7	9451.3	10442.1	11376.4	12214.9	12975.4
-45°	3810.9	4373.7	5005.8	5796.4	6648.3	7601.3	8571.5	9534.0	10442.1	11301.8	12063.5
-47.5°	3541.7	4020.7	4599.2	5224.1	5977.6	6798.1	7677.2	8571.5	9451.3	10279.3	11073.6
-50°	3275.5	3716.2	4178.9	4735.6	5344.0	6038.3	6798.1	7601.3	8408.7	9204.4	9956.2
-52.5°	3038.3	3402.2	3821.6	4269.3	4781.2	5344.0	5977.6	6648.3	7374.7	8085.4	8797.0
-55°	2794.2	3124.1	3472.2	3857.0	4269.3	4735.6	5224.1	5796.4	6350.9	7000.4	7622.4
-57.5°	2555.6	2851.2	3152.9	3472.2	3821.6	4178.9	4599.2	5005.8	5496.9	5987.9	6483.6
-60°	2318.3	2581.9	2851.2	3124.1	3402.2	3716.2	4020.7	4373.7	4734.4	5083.0	5513.9
-62.5°	2084.1	2318.3	2555.6	2794.2	3038.3	3275.5	3541.7	3810.9	4069.9	4377.7	4679.0
-65°	1882.6	2062.9	2266.1	2477.1	2682.5	2896.3	3105.0	3306.3	3534.9	3759.7	3973.9
-67.5°	1677.7	1840.3	1999.3	2162.1	2347.0	2526.5	2700.0	2880.5	3054.1	3220.3	3387.9
-70°	1460.0	1612.9	1756.1	1894.1	2028.2	2166.9	2320.9	2469.4	2611.8	2751.6	2891.6
-72.5°	1237.5	1371.5	1502.5	1630.1	1748.2	1862.0	1971.8	2077.6	2192.4	2311.2	2424.2
-75°	1021.1	1128.5	1240.0	1349.4	1455.7	1558.6	1657.2	1747.7	1834.5	1917.4	1996.2
-77.5°	809.1	898.7	986.2	1071.3	1155.0	1240.7	1323.4	1403.0	1479.2	1552.0	1621.1
-80°	607.4	667.9	737.3	805.5	871.6	935.6	997.3	1056.6	1113.5	1169.6	1224.8
-82.5°	426.3	471.7	516.0	559.1	600.8	641.3	682.0	726.5	769.0	809.7	848.2
-85°	253.8	274.8	304.2	333.0	360.8	387.8	413.7	438.7	462.6	485.4	507.0
-87.5°	127.0	137.5	147.8	157.8	167.4	176.8	185.8	194.5	202.8	210.7	218.2
-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: P687832 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-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°	225.3	232.0	238.2	244.0	249.3	254.1	258.5	262.4	265.7	268.6	270.9
85°	527.5	546.7	564.6	581.3	596.6	610.5	623.0	634.2	643.9	652.1	658.8
82.5°	884.7	918.9	950.9	980.6	1007.9	1032.8	1055.2	1075.0	1092.3	1107.0	1119.1
80°	1277.0	1326.1	1371.9	1414.4	1453.5	1489.2	1521.3	1549.8	1574.5	1595.6	1612.9
77.5°	1684.3	1742.5	1796.9	1847.4	1893.9	1936.3	1974.4	2008.3	2037.8	2062.9	2083.4
75°	2070.7	2145.5	2225.9	2300.5	2369.2	2431.8	2488.2	2538.3	2581.9	2619.0	2649.5
72.5°	2531.1	2631.8	2727.8	2822.4	2909.5	2989.0	3060.6	3124.1	3179.6	3226.7	3265.4
70°	3024.3	3149.3	3266.3	3383.7	3505.2	3616.1	3716.2	3805.0	3882.5	3948.4	4002.6
67.5°	3569.8	3741.3	3902.0	4051.4	4213.6	4373.7	4518.1	4646.5	4758.5	4853.8	4932.2
65°	4198.4	4442.4	4671.1	4884.0	5083.0	5317.0	5528.3	5716.2	5880.3	6020.0	6134.8
62.5°	4965.2	5285.0	5615.6	5923.6	6208.0	6496.6	6783.9	7039.7	7263.0	7453.3	7609.9
60°	5923.6	6310.8	6748.9	7163.5	7546.9	7898.3	8235.0	8534.8	8797.0	9020.4	9204.4
57.5°	7029.9	7546.9	8041.8	8523.4	8969.1	9377.6	9741.3	10061.5	10341.7	10580.8	10777.7
55°	8235.0	8830.8	9392.0	9905.6	10377.9	10811.3	11196.6	11511.9	11787.9	12023.6	12217.9
52.5°	9476.1	10103.9	10694.3	11235.4	11696.8	12120.7	12505.4	12818.8	13087.7	13317.6	13507.3
50°	10665.8	11319.3	11892.3	12429.6	12890.1	13300.3	13673.1	13991.8	14257.1	14484.1	14671.5
47.5°	11763.4	12414.7	12981.1	13497.8	13966.7	14368.5	14734.3	15057.6	15320.8	15546.3	15732.8
45°	12769.8	13392.0	13969.4	14472.5	14941.9	15343.6	15704.7	16029.0	16277.3	16485.2	16657.3
42.5°	13670.1	14288.6	14860.4	15365.8	15826.5	16225.0	16555.6	16853.1	17098.0	17296.7	17461.5
40°	14482.6	15113.4	15670.7	16178.2	16597.3	16984.1	17297.9	17581.0	17822.3	18010.6	18167.0
37.5°	15234.6	15856.1	16391.9	16869.3	17276.4	17644.2	17954.0	18220.9	18456.5	18627.1	18769.3
35°	15918.4	16500.0	17027.1	17475.3	17880.4	18224.9	18527.3	18768.0	18982.0	19151.2	19287.9
32.5°	16500.0	17076.2	17576.0	18015.6	18409.7	18724.7	19009.9	19241.6	19446.6	19606.4	19724.2
30°	17027.1	17576.0	18061.1	18494.7	18845.5	19158.3	19429.3	19647.9	19823.3	19968.6	20069.5
27.5°	17475.3	18015.6	18494.7	18886.2	19232.7	19543.2	19773.0	19974.8	20124.1	20255.0	20342.2
25°	17880.4	18409.7	18845.5	19232.7	19573.9	19836.9	20052.7	20231.6	20364.4	20477.0	20542.9
22.5°	18224.9	18724.7	19158.3	19543.2	19836.9	20079.0	20280.0	20432.1	20541.9	20612.0	20653.8
20°	18527.3	19009.9	19429.3	19773.0	20052.7	20280.0	20455.1	20569.4	20648.2	20673.9	20688.6
17.5°	18768.0	19241.6	19647.9	19974.8	20231.6	20432.1	20569.4	20653.1	20684.3	20676.8	20659.2
15°	18982.0	19446.6	19823.3	20124.1	20364.4	20541.9	20648.2	20684.3	20672.8	20633.9	20570.7
12.5°	19151.2	19606.4	19968.6	20255.0	20477.0	20612.0	20673.9	20676.8	20633.9	20555.4	20476.3
10°	19287.9	19724.2	20069.5	20342.2	20542.9	20653.8	20688.6	20659.2	20570.7	20476.3	20398.8
7.5°	19396.1	19817.6	20149.8	20411.7	20586.6	20670.0	20675.7	20614.9	20513.7	20414.2	20341.9
5°	19474.4	19885.4	20208.2	20462.5	20618.6	20681.9	20666.1	20580.0	20468.3	20375.9	20292.8
2.5°	19521.8	19926.4	20243.7	20493.4	20638.1	20689.2	20660.2	20558.2	20439.8	20351.3	20260.3
0°	19537.7	19940.2	20255.6	20503.8	20644.7	20691.7	20658.2	20550.8	20430.0	20342.8	20248.9
-2.5°	19521.8	19926.4	20243.7	20493.4	20638.1	20689.2	20660.2	20558.2	20439.8	20351.3	20260.3
-5°	19474.4	19885.4	20208.2	20462.5	20618.6	20681.9	20666.1	20580.0	20468.3	20375.9	20292.8
-7.5°	19396.1	19817.6	20149.8	20411.7	20586.6	20670.0	20675.7	20614.9	20513.7	20414.2	20341.9
-10°	19287.9	19724.2	20069.5	20342.2	20542.9	20653.8	20688.6	20659.2	20570.7	20476.3	20398.8
-12.5°	19151.2	19606.4	19968.6	20255.0	20477.0	20612.0	20673.9	20676.8	20633.9	20555.4	20476.3
-15°	18982.0	19446.6	19823.3	20124.1	20364.4	20541.9	20648.2	20684.3	20672.8	20633.9	20570.7



REPORT NUMBER: P687832 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-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°	18224.9	18724.7	19158.3	19543.2	19836.9	20079.0	20280.0	20432.1	20541.9	20612.0	20653.8
-25°	17880.4	18409.7	18845.5	19232.7	19573.9	19836.9	20052.7	20231.6	20364.4	20477.0	20542.9
-27.5°	17475.3	18015.6	18494.7	18886.2	19232.7	19543.2	19773.0	19974.8	20124.1	20255.0	20342.2
-30°	17027.1	17576.0	18061.1	18494.7	18845.5	19158.3	19429.3	19647.9	19823.3	19968.6	20069.5
-32.5°	16500.0	17076.2	17576.0	18015.6	18409.7	18724.7	19009.9	19241.6	19446.6	19606.4	19724.2
-35°	15918.4	16500.0	17027.1	17475.3	17880.4	18224.9	18527.3	18768.0	18982.0	19151.2	19287.9
-37.5°	15234.6	15856.1	16391.9	16869.3	17276.4	17644.2	17954.0	18220.9	18456.5	18627.1	18769.3
-40°	14482.6	15113.4	15670.7	16178.2	16597.3	16984.1	17297.9	17581.0	17822.3	18010.6	18167.0
-42.5°	13670.1	14288.6	14860.4	15365.8	15826.5	16225.0	16555.6	16853.1	17098.0	17296.7	17461.5
-45°	12769.8	13392.0	13969.4	14472.5	14941.9	15343.6	15704.7	16029.0	16277.3	16485.2	16657.3
-47.5°	11763.4	12414.7	12981.1	13497.8	13966.7	14368.5	14734.3	15057.6	15320.8	15546.3	15732.8
-50°	10665.8	11319.3	11892.3	12429.6	12890.1	13300.3	13673.1	13991.8	14257.1	14484.1	14671.5
-52.5°	9476.1	10103.9	10694.3	11235.4	11696.8	12120.7	12505.4	12818.8	13087.7	13317.6	13507.3
-55°	8235.0	8830.8	9392.0	9905.6	10377.9	10811.3	11196.6	11511.9	11787.9	12023.6	12217.9
-57.5°	7029.9	7546.9	8041.8	8523.4	8969.1	9377.6	9741.3	10061.5	10341.7	10580.8	10777.7
-60°	5923.6	6310.8	6748.9	7163.5	7546.9	7898.3	8235.0	8534.8	8797.0	9020.4	9204.4
-62.5°	4965.2	5285.0	5615.6	5923.6	6208.0	6496.6	6783.9	7039.7	7263.0	7453.3	7609.9
-65°	4198.4	4442.4	4671.1	4884.0	5083.0	5317.0	5528.3	5716.2	5880.3	6020.0	6134.8
-67.5°	3569.8	3741.3	3902.0	4051.4	4213.6	4373.7	4518.1	4646.5	4758.5	4853.8	4932.2
-70°	3024.3	3149.3	3266.3	3383.7	3505.2	3616.1	3716.2	3805.0	3882.5	3948.4	4002.6
-72.5°	2531.1	2631.8	2727.8	2822.4	2909.5	2989.0	3060.6	3124.1	3179.6	3226.7	3265.4
-75°	2070.7	2145.5	2225.9	2300.5	2369.2	2431.8	2488.2	2538.3	2581.9	2619.0	2649.5
-77.5°	1684.3	1742.5	1796.9	1847.4	1893.9	1936.3	1974.4	2008.3	2037.8	2062.9	2083.4
-80°	1277.0	1326.1	1371.9	1414.4	1453.5	1489.2	1521.3	1549.8	1574.5	1595.6	1612.9
-82.5°	884.7	918.9	950.9	980.6	1007.9	1032.8	1055.2	1075.0	1092.3	1107.0	1119.1
-85°	527.5	546.7	564.6	581.3	596.6	610.5	623.0	634.2	643.9	652.1	658.8
-87.5°	225.3	232.0	238.2	244.0	249.3	254.1	258.5	262.4	265.7	268.6	270.9
-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: P687832 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-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°	272.7	274.1	274.8	275.1	274.8	274.1	272.7	270.9	268.6	265.7	262.4
85°	664.1	667.9	670.1	670.9	670.1	667.9	664.1	658.8	652.1	643.9	634.2
82.5°	1128.5	1135.2	1139.3	1140.6	1139.3	1135.2	1128.5	1119.1	1107.0	1092.3	1075.0
80°	1626.4	1636.1	1641.9	1643.8	1641.9	1636.1	1626.4	1612.9	1595.6	1574.5	1549.8
77.5°	2099.5	2111.0	2117.9	2120.2	2117.9	2111.0	2099.5	2083.4	2062.9	2037.8	2008.3
75°	2673.2	2690.3	2700.5	2703.9	2700.5	2690.3	2673.2	2649.5	2619.0	2581.9	2538.3
72.5°	3295.6	3317.3	3330.3	3334.6	3330.3	3317.3	3295.6	3265.4	3226.7	3179.6	3124.1
70°	4044.9	4075.1	4093.3	4099.4	4093.3	4075.1	4044.9	4002.6	3948.4	3882.5	3805.0
67.5°	4993.3	5037.2	5063.5	5072.3	5063.5	5037.2	4993.3	4932.2	4853.8	4758.5	4646.5
65°	6224.6	6288.9	6327.5	6340.4	6327.5	6288.9	6224.6	6134.8	6020.0	5880.3	5716.2
62.5°	7732.2	7819.9	7872.6	7890.2	7872.6	7819.9	7732.2	7609.9	7453.3	7263.0	7039.7
60°	9348.2	9451.3	9513.3	9534.0	9513.3	9451.3	9348.2	9204.4	9020.4	8797.0	8534.8
57.5°	10931.7	11042.2	11108.6	11130.8	11108.6	11042.2	10931.7	10777.7	10580.8	10341.7	10061.5
55°	12370.0	12479.1	12544.8	12566.7	12544.8	12479.1	12370.0	12217.9	12023.6	11787.9	11511.9
52.5°	13655.8	13762.4	13826.7	13848.1	13826.7	13762.4	13655.8	13507.3	13317.6	13087.7	12818.8
50°	14818.5	14924.1	14987.7	15008.9	14987.7	14924.1	14818.5	14671.5	14484.1	14257.1	13991.8
47.5°	15879.1	15984.3	16047.7	16068.9	16047.7	15984.3	15879.1	15732.8	15546.3	15320.8	15057.6
45°	16792.5	16889.7	16948.4	16968.0	16948.4	16889.7	16792.5	16657.3	16485.2	16277.3	16029.0
42.5°	17591.2	17684.5	17740.9	17759.7	17740.9	17684.5	17591.2	17461.5	17296.7	17098.0	16853.1
40°	18290.3	18379.2	18432.8	18450.8	18432.8	18379.2	18290.3	18167.0	18010.6	17822.3	17581.0
37.5°	18881.4	18962.4	19011.4	19027.8	19011.4	18962.4	18881.4	18769.3	18627.1	18456.5	18220.9
35°	19396.1	19474.4	19521.8	19537.7	19521.8	19474.4	19396.1	19287.9	19151.2	18982.0	18768.0
32.5°	19817.6	19885.4	19926.4	19940.2	19926.4	19885.4	19817.6	19724.2	19606.4	19446.6	19241.6
30°	20149.8	20208.2	20243.7	20255.6	20243.7	20208.2	20149.8	20069.5	19968.6	19823.3	19647.9
27.5°	20411.7	20462.5	20493.4	20503.8	20493.4	20462.5	20411.7	20342.2	20255.0	20124.1	19974.8
25°	20586.6	20618.6	20638.1	20644.7	20638.1	20618.6	20586.6	20542.9	20477.0	20364.4	20231.6
22.5°	20670.0	20681.9	20689.2	20691.7	20689.2	20681.9	20670.0	20653.8	20612.0	20541.9	20432.1
20°	20675.7	20666.1	20660.2	20658.2	20660.2	20666.1	20675.7	20688.6	20673.9	20648.2	20569.4
17.5°	20614.9	20580.0	20558.2	20550.8	20558.2	20580.0	20614.9	20659.2	20676.8	20684.3	20653.1
15°	20513.7	20468.3	20439.8	20430.0	20439.8	20468.3	20513.7	20570.7	20633.9	20672.8	20684.3
12.5°	20414.2	20375.9	20351.3	20342.8	20351.3	20375.9	20414.2	20476.3	20555.4	20633.9	20676.8
10°	20341.9	20292.8	20260.3	20248.9	20260.3	20292.8	20341.9	20398.8	20476.3	20570.7	20659.2
7.5°	20271.1	20219.6	20187.0	20175.1	20187.0	20219.6	20271.1	20341.9	20414.2	20513.7	20614.9
5°	20219.6	20167.0	20139.2	20128.1	20139.2	20167.0	20219.6	20292.8	20375.9	20468.3	20580.0
2.5°	20187.0	20139.2	20116.3	20108.0	20116.3	20139.2	20187.0	20260.3	20351.3	20439.8	20558.2
0°	20175.1	20128.1	20108.0	20094.6	20108.0	20128.1	20175.1	20248.9	20342.8	20430.0	20550.8
-2.5°	20187.0	20139.2	20116.3	20108.0	20116.3	20139.2	20187.0	20260.3	20351.3	20439.8	20558.2
-5°	20219.6	20167.0	20139.2	20128.1	20139.2	20167.0	20219.6	20292.8	20375.9	20468.3	20580.0
-7.5°	20271.1	20219.6	20187.0	20175.1	20187.0	20219.6	20271.1	20341.9	20414.2	20513.7	20614.9
-10°	20341.9	20292.8	20260.3	20248.9	20260.3	20292.8	20341.9	20398.8	20476.3	20570.7	20659.2
-12.5°	20414.2	20375.9	20351.3	20342.8	20351.3	20375.9	20414.2	20476.3	20555.4	20633.9	20676.8
-15°	20513.7	20468.3	20439.8	20430.0	20439.8	20468.3	20513.7	20570.7	20633.9	20672.8	20684.3



REPORT NUMBER: P687832 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-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°	20670.0	20681.9	20689.2	20691.7	20689.2	20681.9	20670.0	20653.8	20612.0	20541.9	20432.1
-25°	20586.6	20618.6	20638.1	20644.7	20638.1	20618.6	20586.6	20542.9	20477.0	20364.4	20231.6
-27.5°	20411.7	20462.5	20493.4	20503.8	20493.4	20462.5	20411.7	20342.2	20255.0	20124.1	19974.8
-30°	20149.8	20208.2	20243.7	20255.6	20243.7	20208.2	20149.8	20069.5	19968.6	19823.3	19647.9
-32.5°	19817.6	19885.4	19926.4	19940.2	19926.4	19885.4	19817.6	19724.2	19606.4	19446.6	19241.6
-35°	19396.1	19474.4	19521.8	19537.7	19521.8	19474.4	19396.1	19287.9	19151.2	18982.0	18768.0
-37.5°	18881.4	18962.4	19011.4	19027.8	19011.4	18962.4	18881.4	18769.3	18627.1	18456.5	18220.9
-40°	18290.3	18379.2	18432.8	18450.8	18432.8	18379.2	18290.3	18167.0	18010.6	17822.3	17581.0
-42.5°	17591.2	17684.5	17740.9	17759.7	17740.9	17684.5	17591.2	17461.5	17296.7	17098.0	16853.1
-45°	16792.5	16889.7	16948.4	16968.0	16948.4	16889.7	16792.5	16657.3	16485.2	16277.3	16029.0
-47.5°	15879.1	15984.3	16047.7	16068.9	16047.7	15984.3	15879.1	15732.8	15546.3	15320.8	15057.6
-50°	14818.5	14924.1	14987.7	15008.9	14987.7	14924.1	14818.5	14671.5	14484.1	14257.1	13991.8
-52.5°	13655.8	13762.4	13826.7	13848.1	13826.7	13762.4	13655.8	13507.3	13317.6	13087.7	12818.8
-55°	12370.0	12479.1	12544.8	12566.7	12544.8	12479.1	12370.0	12217.9	12023.6	11787.9	11511.9
-57.5°	10931.7	11042.2	11108.6	11130.8	11108.6	11042.2	10931.7	10777.7	10580.8	10341.7	10061.5
-60°	9348.2	9451.3	9513.3	9534.0	9513.3	9451.3	9348.2	9204.4	9020.4	8797.0	8534.8
-62.5°	7732.2	7819.9	7872.6	7890.2	7872.6	7819.9	7732.2	7609.9	7453.3	7263.0	7039.7
-65°	6224.6	6288.9	6327.5	6340.4	6327.5	6288.9	6224.6	6134.8	6020.0	5880.3	5716.2
-67.5°	4993.3	5037.2	5063.5	5072.3	5063.5	5037.2	4993.3	4932.2	4853.8	4758.5	4646.5
-70°	4044.9	4075.1	4093.3	4099.4	4093.3	4075.1	4044.9	4002.6	3948.4	3882.5	3805.0
-72.5°	3295.6	3317.3	3330.3	3334.6	3330.3	3317.3	3295.6	3265.4	3226.7	3179.6	3124.1
-75°	2673.2	2690.3	2700.5	2703.9	2700.5	2690.3	2673.2	2649.5	2619.0	2581.9	2538.3
-77.5°	2099.5	2111.0	2117.9	2120.2	2117.9	2111.0	2099.5	2083.4	2062.9	2037.8	2008.3
-80°	1626.4	1636.1	1641.9	1643.8	1641.9	1636.1	1626.4	1612.9	1595.6	1574.5	1549.8
-82.5°	1128.5	1135.2	1139.3	1140.6	1139.3	1135.2	1128.5	1119.1	1107.0	1092.3	1075.0
-85°	664.1	667.9	670.1	670.9	670.1	667.9	664.1	658.8	652.1	643.9	634.2
-87.5°	272.7	274.1	274.8	275.1	274.8	274.1	272.7	270.9	268.6	265.7	262.4
-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: P687832 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-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°	258.5	254.1	249.3	244.0	238.2	232.0	225.3	218.2	210.7	202.8	194.5
85°	623.0	610.5	596.6	581.3	564.6	546.7	527.5	507.0	485.4	462.6	438.7
82.5°	1055.2	1032.8	1007.9	980.6	950.9	918.9	884.7	848.2	809.7	769.0	726.5
80°	1521.3	1489.2	1453.5	1414.4	1371.9	1326.1	1277.0	1224.8	1169.6	1113.5	1056.6
77.5°	1974.4	1936.3	1893.9	1847.4	1796.9	1742.5	1684.3	1621.1	1552.0	1479.2	1403.0
75°	2488.2	2431.8	2369.2	2300.5	2225.9	2145.5	2070.7	1996.2	1917.4	1834.5	1747.7
72.5°	3060.6	2989.0	2909.5	2822.4	2727.8	2631.8	2531.1	2424.2	2311.2	2192.4	2077.6
70°	3716.2	3616.1	3505.2	3383.7	3266.3	3149.3	3024.3	2891.6	2751.6	2611.8	2469.4
67.5°	4518.1	4373.7	4213.6	4051.4	3902.0	3741.3	3569.8	3387.9	3220.3	3054.1	2880.5
65°	5528.3	5317.0	5083.0	4884.0	4671.1	4442.4	4198.4	3973.9	3759.7	3534.9	3306.3
62.5°	6783.9	6496.6	6208.0	5923.6	5615.6	5285.0	4965.2	4679.0	4377.7	4069.9	3810.9
60°	8235.0	7898.3	7546.9	7163.5	6748.9	6310.8	5923.6	5513.9	5083.0	4734.4	4373.7
57.5°	9741.3	9377.6	8969.1	8523.4	8041.8	7546.9	7029.9	6483.6	5987.9	5496.9	5005.8
55°	11196.6	10811.3	10377.9	9905.6	9392.0	8830.8	8235.0	7622.4	7000.4	6350.9	5796.4
52.5°	12505.4	12120.7	11696.8	11235.4	10694.3	10103.9	9476.1	8797.0	8085.4	7374.7	6648.3
50°	13673.1	13300.3	12890.1	12429.6	11892.3	11319.3	10665.8	9956.2	9204.4	8408.7	7601.3
47.5°	14734.3	14368.5	13966.7	13497.8	12981.1	12414.7	11763.4	11073.6	10279.3	9451.3	8571.5
45°	15704.7	15343.6	14941.9	14472.5	13969.4	13392.0	12769.8	12063.5	11301.8	10442.1	9534.0
42.5°	16555.6	16225.0	15826.5	15365.8	14860.4	14288.6	13670.1	12975.4	12214.9	11376.4	10442.1
40°	17297.9	16984.1	16597.3	16178.2	15670.7	15113.4	14482.6	13810.5	13044.4	12214.9	11301.8
37.5°	17954.0	17644.2	17276.4	16869.3	16391.9	15856.1	15234.6	14547.6	13810.5	12975.4	12063.5
35°	18527.3	18224.9	17880.4	17475.3	17027.1	16500.0	15918.4	15234.6	14482.6	13670.1	12769.8
32.5°	19009.9	18724.7	18409.7	18015.6	17576.0	17076.2	16500.0	15856.1	15113.4	14288.6	13392.0
30°	19429.3	19158.3	18845.5	18494.7	18061.1	17576.0	17027.1	16391.9	15670.7	14860.4	13969.4
27.5°	19773.0	19543.2	19232.7	18886.2	18494.7	18015.6	17475.3	16869.3	16178.2	15365.8	14472.5
25°	20052.7	19836.9	19573.9	19232.7	18845.5	18409.7	17880.4	17276.4	16597.3	15826.5	14941.9
22.5°	20280.0	20079.0	19836.9	19543.2	19158.3	18724.7	18224.9	17644.2	16984.1	16225.0	15343.6
20°	20455.1	20280.0	20052.7	19773.0	19429.3	19009.9	18527.3	17954.0	17297.9	16555.6	15704.7
17.5°	20569.4	20432.1	20231.6	19974.8	19647.9	19241.6	18768.0	18220.9	17581.0	16853.1	16029.0
15°	20648.2	20541.9	20364.4	20124.1	19823.3	19446.6	18982.0	18456.5	17822.3	17098.0	16277.3
12.5°	20673.9	20612.0	20477.0	20255.0	19968.6	19606.4	19151.2	18627.1	18010.6	17296.7	16485.2
10°	20688.6	20653.8	20542.9	20342.2	20069.5	19724.2	19287.9	18769.3	18167.0	17461.5	16657.3
7.5°	20675.7	20670.0	20586.6	20411.7	20149.8	19817.6	19396.1	18881.4	18290.3	17591.2	16792.5
5°	20666.1	20681.9	20618.6	20462.5	20208.2	19885.4	19474.4	18962.4	18379.2	17684.5	16889.7
2.5°	20660.2	20689.2	20638.1	20493.4	20243.7	19926.4	19521.8	19011.4	18432.8	17740.9	16948.4
0°	20658.2	20691.7	20644.7	20503.8	20255.6	19940.2	19537.7	19027.8	18450.8	17759.7	16968.0
-2.5°	20660.2	20689.2	20638.1	20493.4	20243.7	19926.4	19521.8	19011.4	18432.8	17740.9	16948.4
-5°	20666.1	20681.9	20618.6	20462.5	20208.2	19885.4	19474.4	18962.4	18379.2	17684.5	16889.7
-7.5°	20675.7	20670.0	20586.6	20411.7	20149.8	19817.6	19396.1	18881.4	18290.3	17591.2	16792.5
-10°	20688.6	20653.8	20542.9	20342.2	20069.5	19724.2	19287.9	18769.3	18167.0	17461.5	16657.3
-12.5°	20673.9	20612.0	20477.0	20255.0	19968.6	19606.4	19151.2	18627.1	18010.6	17296.7	16485.2
-15°	20648.2	20541.9	20364.4	20124.1	19823.3	19446.6	18982.0	18456.5	17822.3	17098.0	16277.3



REPORT NUMBER: P687832 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-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°	20280.0	20079.0	19836.9	19543.2	19158.3	18724.7	18224.9	17644.2	16984.1	16225.0	15343.6
-25°	20052.7	19836.9	19573.9	19232.7	18845.5	18409.7	17880.4	17276.4	16597.3	15826.5	14941.9
-27.5°	19773.0	19543.2	19232.7	18886.2	18494.7	18015.6	17475.3	16869.3	16178.2	15365.8	14472.5
-30°	19429.3	19158.3	18845.5	18494.7	18061.1	17576.0	17027.1	16391.9	15670.7	14860.4	13969.4
-32.5°	19009.9	18724.7	18409.7	18015.6	17576.0	17076.2	16500.0	15856.1	15113.4	14288.6	13392.0
-35°	18527.3	18224.9	17880.4	17475.3	17027.1	16500.0	15918.4	15234.6	14482.6	13670.1	12769.8
-37.5°	17954.0	17644.2	17276.4	16869.3	16391.9	15856.1	15234.6	14547.6	13810.5	12975.4	12063.5
-40°	17297.9	16984.1	16597.3	16178.2	15670.7	15113.4	14482.6	13810.5	13044.4	12214.9	11301.8
-42.5°	16555.6	16225.0	15826.5	15365.8	14860.4	14288.6	13670.1	12975.4	12214.9	11376.4	10442.1
-45°	15704.7	15343.6	14941.9	14472.5	13969.4	13392.0	12769.8	12063.5	11301.8	10442.1	9534.0
-47.5°	14734.3	14368.5	13966.7	13497.8	12981.1	12414.7	11763.4	11073.6	10279.3	9451.3	8571.5
-50°	13673.1	13300.3	12890.1	12429.6	11892.3	11319.3	10665.8	9956.2	9204.4	8408.7	7601.3
-52.5°	12505.4	12120.7	11696.8	11235.4	10694.3	10103.9	9476.1	8797.0	8085.4	7374.7	6648.3
-55°	11196.6	10811.3	10377.9	9905.6	9392.0	8830.8	8235.0	7622.4	7000.4	6350.9	5796.4
-57.5°	9741.3	9377.6	8969.1	8523.4	8041.8	7546.9	7029.9	6483.6	5987.9	5496.9	5005.8
-60°	8235.0	7898.3	7546.9	7163.5	6748.9	6310.8	5923.6	5513.9	5083.0	4734.4	4373.7
-62.5°	6783.9	6496.6	6208.0	5923.6	5615.6	5285.0	4965.2	4679.0	4377.7	4069.9	3810.9
-65°	5528.3	5317.0	5083.0	4884.0	4671.1	4442.4	4198.4	3973.9	3759.7	3534.9	3306.3
-67.5°	4518.1	4373.7	4213.6	4051.4	3902.0	3741.3	3569.8	3387.9	3220.3	3054.1	2880.5
-70°	3716.2	3616.1	3505.2	3383.7	3266.3	3149.3	3024.3	2891.6	2751.6	2611.8	2469.4
-72.5°	3060.6	2989.0	2909.5	2822.4	2727.8	2631.8	2531.1	2424.2	2311.2	2192.4	2077.6
-75°	2488.2	2431.8	2369.2	2300.5	2225.9	2145.5	2070.7	1996.2	1917.4	1834.5	1747.7
-77.5°	1974.4	1936.3	1893.9	1847.4	1796.9	1742.5	1684.3	1621.1	1552.0	1479.2	1403.0
-80°	1521.3	1489.2	1453.5	1414.4	1371.9	1326.1	1277.0	1224.8	1169.6	1113.5	1056.6
-82.5°	1055.2	1032.8	1007.9	980.6	950.9	918.9	884.7	848.2	809.7	769.0	726.5
-85°	623.0	610.5	596.6	581.3	564.6	546.7	527.5	507.0	485.4	462.6	438.7
-87.5°	258.5	254.1	249.3	244.0	238.2	232.0	225.3	218.2	210.7	202.8	194.5
-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: P687832 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-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°	185.8	176.8	167.4	157.8	147.8	137.5	127.0	116.2	105.2	94.1	82.7
85°	413.7	387.8	360.8	333.0	304.2	274.8	253.8	232.3	210.3	188.0	165.3
82.5°	682.0	641.3	600.8	559.1	516.0	471.7	426.3	379.9	332.6	284.4	247.5
80°	997.3	935.6	871.6	805.5	737.3	667.9	607.4	545.6	482.5	418.4	353.2
77.5°	1323.4	1240.7	1155.0	1071.3	986.2	898.7	809.1	717.5	631.5	551.4	470.1
75°	1657.2	1558.6	1455.7	1349.4	1240.0	1128.5	1021.1	911.3	799.5	685.7	586.0
72.5°	1971.8	1862.0	1748.2	1630.1	1502.5	1371.5	1237.5	1103.2	973.0	840.6	706.2
70°	2320.9	2166.9	2028.2	1894.1	1756.1	1612.9	1460.0	1303.8	1144.8	993.6	840.6
67.5°	2700.0	2526.5	2347.0	2162.1	1999.3	1840.3	1677.7	1504.4	1326.0	1144.8	973.0
65°	3105.0	2896.3	2682.5	2477.1	2266.1	2062.9	1882.6	1698.8	1504.4	1303.8	1103.2
62.5°	3541.7	3275.5	3038.3	2794.2	2555.6	2318.3	2084.1	1882.6	1677.7	1460.0	1237.5
60°	4020.7	3716.2	3402.2	3124.1	2851.2	2581.9	2318.3	2062.9	1840.3	1612.9	1371.5
57.5°	4599.2	4178.9	3821.6	3472.2	3152.9	2851.2	2555.6	2266.1	1999.3	1756.1	1502.5
55°	5224.1	4735.6	4269.3	3857.0	3472.2	3124.1	2794.2	2477.1	2162.1	1894.1	1630.1
52.5°	5977.6	5344.0	4781.2	4269.3	3821.6	3402.2	3038.3	2682.5	2347.0	2028.2	1748.2
50°	6798.1	6038.3	5344.0	4735.6	4178.9	3716.2	3275.5	2896.3	2526.5	2166.9	1862.0
47.5°	7677.2	6798.1	5977.6	5224.1	4599.2	4020.7	3541.7	3105.0	2700.0	2320.9	1971.8
45°	8571.5	7601.3	6648.3	5796.4	5005.8	4373.7	3810.9	3306.3	2880.5	2469.4	2077.6
42.5°	9451.3	8408.7	7374.7	6350.9	5496.9	4734.4	4069.9	3534.9	3054.1	2611.8	2192.4
40°	10279.3	9204.4	8085.4	7000.4	5987.9	5083.0	4377.7	3759.7	3220.3	2751.6	2311.2
37.5°	11073.6	9956.2	8797.0	7622.4	6483.6	5513.9	4679.0	3973.9	3387.9	2891.6	2424.2
35°	11763.4	10665.8	9476.1	8235.0	7029.9	5923.6	4965.2	4198.4	3569.8	3024.3	2531.1
32.5°	12414.7	11319.3	10103.9	8830.8	7546.9	6310.8	5285.0	4442.4	3741.3	3149.3	2631.8
30°	12981.1	11892.3	10694.3	9392.0	8041.8	6748.9	5615.6	4671.1	3902.0	3266.3	2727.8
27.5°	13497.8	12429.6	11235.4	9905.6	8523.4	7163.5	5923.6	4884.0	4051.4	3383.7	2822.4
25°	13966.7	12890.1	11696.8	10377.9	8969.1	7546.9	6208.0	5083.0	4213.6	3505.2	2909.5
22.5°	14368.5	13300.3	12120.7	10811.3	9377.6	7898.3	6496.6	5317.0	4373.7	3616.1	2989.0
20°	14734.3	13673.1	12505.4	11196.6	9741.3	8235.0	6783.9	5528.3	4518.1	3716.2	3060.6
17.5°	15057.6	13991.8	12818.8	11511.9	10061.5	8534.8	7039.7	5716.2	4646.5	3805.0	3124.1
15°	15320.8	14257.1	13087.7	11787.9	10341.7	8797.0	7263.0	5880.3	4758.5	3882.5	3179.6
12.5°	15546.3	14484.1	13317.6	12023.6	10580.8	9020.4	7453.3	6020.0	4853.8	3948.4	3226.7
10°	15732.8	14671.5	13507.3	12217.9	10777.7	9204.4	7609.9	6134.8	4932.2	4002.6	3265.4
7.5°	15879.1	14818.5	13655.8	12370.0	10931.7	9348.2	7732.2	6224.6	4993.3	4044.9	3295.6
5°	15984.3	14924.1	13762.4	12479.1	11042.2	9451.3	7819.9	6288.9	5037.2	4075.1	3317.3
2.5°	16047.7	14987.7	13826.7	12544.8	11108.6	9513.3	7872.6	6327.5	5063.5	4093.3	3330.3
0°	16068.9	15008.9	13848.1	12566.7	11130.8	9534.0	7890.2	6340.4	5072.3	4099.4	3334.6
-2.5°	16047.7	14987.7	13826.7	12544.8	11108.6	9513.3	7872.6	6327.5	5063.5	4093.3	3330.3
-5°	15984.3	14924.1	13762.4	12479.1	11042.2	9451.3	7819.9	6288.9	5037.2	4075.1	3317.3
-7.5°	15879.1	14818.5	13655.8	12370.0	10931.7	9348.2	7732.2	6224.6	4993.3	4044.9	3295.6
-10°	15732.8	14671.5	13507.3	12217.9	10777.7	9204.4	7609.9	6134.8	4932.2	4002.6	3265.4
-12.5°	15546.3	14484.1	13317.6	12023.6	10580.8	9020.4	7453.3	6020.0	4853.8	3948.4	3226.7
-15°	15320.8	14257.1	13087.7	11787.9	10341.7	8797.0	7263.0	5880.3	4758.5	3882.5	3179.6



REPORT NUMBER: P687832 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-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°	14368.5	13300.3	12120.7	10811.3	9377.6	7898.3	6496.6	5317.0	4373.7	3616.1	2989.0
-25°	13966.7	12890.1	11696.8	10377.9	8969.1	7546.9	6208.0	5083.0	4213.6	3505.2	2909.5
-27.5°	13497.8	12429.6	11235.4	9905.6	8523.4	7163.5	5923.6	4884.0	4051.4	3383.7	2822.4
-30°	12981.1	11892.3	10694.3	9392.0	8041.8	6748.9	5615.6	4671.1	3902.0	3266.3	2727.8
-32.5°	12414.7	11319.3	10103.9	8830.8	7546.9	6310.8	5285.0	4442.4	3741.3	3149.3	2631.8
-35°	11763.4	10665.8	9476.1	8235.0	7029.9	5923.6	4965.2	4198.4	3569.8	3024.3	2531.1
-37.5°	11073.6	9956.2	8797.0	7622.4	6483.6	5513.9	4679.0	3973.9	3387.9	2891.6	2424.2
-40°	10279.3	9204.4	8085.4	7000.4	5987.9	5083.0	4377.7	3759.7	3220.3	2751.6	2311.2
-42.5°	9451.3	8408.7	7374.7	6350.9	5496.9	4734.4	4069.9	3534.9	3054.1	2611.8	2192.4
-45°	8571.5	7601.3	6648.3	5796.4	5005.8	4373.7	3810.9	3306.3	2880.5	2469.4	2077.6
-47.5°	7677.2	6798.1	5977.6	5224.1	4599.2	4020.7	3541.7	3105.0	2700.0	2320.9	1971.8
-50°	6798.1	6038.3	5344.0	4735.6	4178.9	3716.2	3275.5	2896.3	2526.5	2166.9	1862.0
-52.5°	5977.6	5344.0	4781.2	4269.3	3821.6	3402.2	3038.3	2682.5	2347.0	2028.2	1748.2
-55°	5224.1	4735.6	4269.3	3857.0	3472.2	3124.1	2794.2	2477.1	2162.1	1894.1	1630.1
-57.5°	4599.2	4178.9	3821.6	3472.2	3152.9	2851.2	2555.6	2266.1	1999.3	1756.1	1502.5
-60°	4020.7	3716.2	3402.2	3124.1	2851.2	2581.9	2318.3	2062.9	1840.3	1612.9	1371.5
-62.5°	3541.7	3275.5	3038.3	2794.2	2555.6	2318.3	2084.1	1882.6	1677.7	1460.0	1237.5
-65°	3105.0	2896.3	2682.5	2477.1	2266.1	2062.9	1882.6	1698.8	1504.4	1303.8	1103.2
-67.5°	2700.0	2526.5	2347.0	2162.1	1999.3	1840.3	1677.7	1504.4	1326.0	1144.8	973.0
-70°	2320.9	2166.9	2028.2	1894.1	1756.1	1612.9	1460.0	1303.8	1144.8	993.6	840.6
-72.5°	1971.8	1862.0	1748.2	1630.1	1502.5	1371.5	1237.5	1103.2	973.0	840.6	706.2
-75°	1657.2	1558.6	1455.7	1349.4	1240.0	1128.5	1021.1	911.3	799.5	685.7	586.0
-77.5°	1323.4	1240.7	1155.0	1071.3	986.2	898.7	809.1	717.5	631.5	551.4	470.1
-80°	997.3	935.6	871.6	805.5	737.3	667.9	607.4	545.6	482.5	418.4	353.2
-82.5°	682.0	641.3	600.8	559.1	516.0	471.7	426.3	379.9	332.6	284.4	247.5
-85°	413.7	387.8	360.8	333.0	304.2	274.8	253.8	232.3	210.3	188.0	165.3
-87.5°	185.8	176.8	167.4	157.8	147.8	137.5	127.0	116.2	105.2	94.1	82.7
-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: P687832 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-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°	71.2	59.5	47.8	35.9	24.0	12.0	0.0
85°	142.2	118.9	95.4	71.7	47.9	24.0	0.0
82.5°	213.0	178.1	142.9	107.4	71.7	35.9	0.0
80°	287.1	237.0	190.1	142.9	95.4	47.8	0.0
77.5°	387.7	304.4	237.0	178.1	118.9	59.5	0.0
75°	487.4	387.7	287.1	213.0	142.2	71.2	0.0
72.5°	586.0	470.1	353.2	247.5	165.3	82.7	0.0
70°	685.7	551.4	418.4	284.4	188.0	94.1	0.0
67.5°	799.5	631.5	482.5	332.6	210.3	105.2	0.0
65°	911.3	717.5	545.6	379.9	232.3	116.2	0.0
62.5°	1021.1	809.1	607.4	426.3	253.8	127.0	0.0
60°	1128.5	898.7	667.9	471.7	274.8	137.5	0.0
57.5°	1240.0	986.2	737.3	516.0	304.2	147.8	0.0
55°	1349.4	1071.3	805.5	559.1	333.0	157.8	0.0
52.5°	1455.7	1155.0	871.6	600.8	360.8	167.4	0.0
50°	1558.6	1240.7	935.6	641.3	387.8	176.8	0.0
47.5°	1657.2	1323.4	997.3	682.0	413.7	185.8	0.0
45°	1747.7	1403.0	1056.6	726.5	438.7	194.5	0.0
42.5°	1834.5	1479.2	1113.5	769.0	462.6	202.8	0.0
40°	1917.4	1552.0	1169.6	809.7	485.4	210.7	0.0
37.5°	1996.2	1621.1	1224.8	848.2	507.0	218.2	0.0
35°	2070.7	1684.3	1277.0	884.7	527.5	225.3	0.0
32.5°	2145.5	1742.5	1326.1	918.9	546.7	232.0	0.0
30°	2225.9	1796.9	1371.9	950.9	564.6	238.2	0.0
27.5°	2300.5	1847.4	1414.4	980.6	581.3	244.0	0.0
25°	2369.2	1893.9	1453.5	1007.9	596.6	249.3	0.0
22.5°	2431.8	1936.3	1489.2	1032.8	610.5	254.1	0.0
20°	2488.2	1974.4	1521.3	1055.2	623.0	258.5	0.0
17.5°	2538.3	2008.3	1549.8	1075.0	634.2	262.4	0.0
15°	2581.9	2037.8	1574.5	1092.3	643.9	265.7	0.0
12.5°	2619.0	2062.9	1595.6	1107.0	652.1	268.6	0.0
10°	2649.5	2083.4	1612.9	1119.1	658.8	270.9	0.0
7.5°	2673.2	2099.5	1626.4	1128.5	664.1	272.7	0.0
5°	2690.3	2111.0	1636.1	1135.2	667.9	274.1	0.0
2.5°	2700.5	2117.9	1641.9	1139.3	670.1	274.8	0.0
0°	2703.9	2120.2	1643.8	1140.6	670.9	275.1	0.0
-2.5°	2700.5	2117.9	1641.9	1139.3	670.1	274.8	0.0
-5°	2690.3	2111.0	1636.1	1135.2	667.9	274.1	0.0
-7.5°	2673.2	2099.5	1626.4	1128.5	664.1	272.7	0.0
-10°	2649.5	2083.4	1612.9	1119.1	658.8	270.9	0.0
-12.5°	2619.0	2062.9	1595.6	1107.0	652.1	268.6	0.0
-15°	2581.9	2037.8	1574.5	1092.3	643.9	265.7	0.0



REPORT NUMBER: P687832 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-E-PRO-4000K-LAM

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	2431.8	1936.3	1489.2	1032.8	610.5	254.1	0.0
-25°	2369.2	1893.9	1453.5	1007.9	596.6	249.3	0.0
-27.5°	2300.5	1847.4	1414.4	980.6	581.3	244.0	0.0
-30°	2225.9	1796.9	1371.9	950.9	564.6	238.2	0.0
-32.5°	2145.5	1742.5	1326.1	918.9	546.7	232.0	0.0
-35°	2070.7	1684.3	1277.0	884.7	527.5	225.3	0.0
-37.5°	1996.2	1621.1	1224.8	848.2	507.0	218.2	0.0
-40°	1917.4	1552.0	1169.6	809.7	485.4	210.7	0.0
-42.5°	1834.5	1479.2	1113.5	769.0	462.6	202.8	0.0
-45°	1747.7	1403.0	1056.6	726.5	438.7	194.5	0.0
-47.5°	1657.2	1323.4	997.3	682.0	413.7	185.8	0.0
-50°	1558.6	1240.7	935.6	641.3	387.8	176.8	0.0
-52.5°	1455.7	1155.0	871.6	600.8	360.8	167.4	0.0
-55°	1349.4	1071.3	805.5	559.1	333.0	157.8	0.0
-57.5°	1240.0	986.2	737.3	516.0	304.2	147.8	0.0
-60°	1128.5	898.7	667.9	471.7	274.8	137.5	0.0
-62.5°	1021.1	809.1	607.4	426.3	253.8	127.0	0.0
-65°	911.3	717.5	545.6	379.9	232.3	116.2	0.0
-67.5°	799.5	631.5	482.5	332.6	210.3	105.2	0.0
-70°	685.7	551.4	418.4	284.4	188.0	94.1	0.0
-72.5°	586.0	470.1	353.2	247.5	165.3	82.7	0.0
-75°	487.4	387.7	287.1	213.0	142.2	71.2	0.0
-77.5°	387.7	304.4	237.0	178.1	118.9	59.5	0.0
-80°	287.1	237.0	190.1	142.9	95.4	47.8	0.0
-82.5°	213.0	178.1	142.9	107.4	71.7	35.9	0.0
-85°	142.2	118.9	95.4	71.7	47.9	24.0	0.0
-87.5°	71.2	59.5	47.8	35.9	24.0	12.0	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report



Report Generated By 670246001

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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	262.4	634.2	1075.0	1549.8	2008.3	2538.3	3124.1	3805.0	4646.5	5716.2
-20°	0.0	258.5	623.0	1055.2	1521.3	1974.4	2488.2	3060.6	3716.2	4518.1	5528.3

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-17.5°	7039.7	8534.8	10061.5	11511.9	12818.8	13991.8	15057.6	16029.0	16853.1	17581.0	18220.9
-20°	6783.9	8235.0	9741.3	11196.6	12505.4	13673.1	14734.3	15704.7	16555.6	17297.9	17954.0

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-17.5°	18768.0	19241.6	19647.9	19974.8	20231.6	20432.1	20569.4	20653.1	20684.3	20676.8	20659.2
-20°	18527.3	19009.9	19429.3	19773.0	20052.7	20280.0	20455.1	20569.4	20648.2	20673.9	20688.6

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-17.5°	20614.9	20580.0	20558.2	20550.8	20558.2	20580.0	20614.9	20659.2	20676.8	20684.3	20653.1
-20°	20675.7	20666.1	20660.2	20658.2	20660.2	20666.1	20675.7	20688.6	20673.9	20648.2	20569.4

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-17.5°	20569.4	20432.1	20231.6	19974.8	19647.9	19241.6	18768.0	18220.9	17581.0	16853.1	16029.0
-20°	20455.1	20280.0	20052.7	19773.0	19429.3	19009.9	18527.3	17954.0	17297.9	16555.6	15704.7

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-17.5°	15057.6	13991.8	12818.8	11511.9	10061.5	8534.8	7039.7	5716.2	4646.5	3805.0	3124.1
-20°	14734.3	13673.1	12505.4	11196.6	9741.3	8235.0	6783.9	5528.3	4518.1	3716.2	3060.6

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-17.5°	2538.3	2008.3	1549.8	1075.0	634.2	262.4	0.0
-20°	2488.2	1974.4	1521.3	1055.2	623.0	258.5	0.0

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(END OF REPORT)