

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: P624789 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-VN-08-E-PRO-3000K-77**

Issue Date: 11/8/2022



Test Information

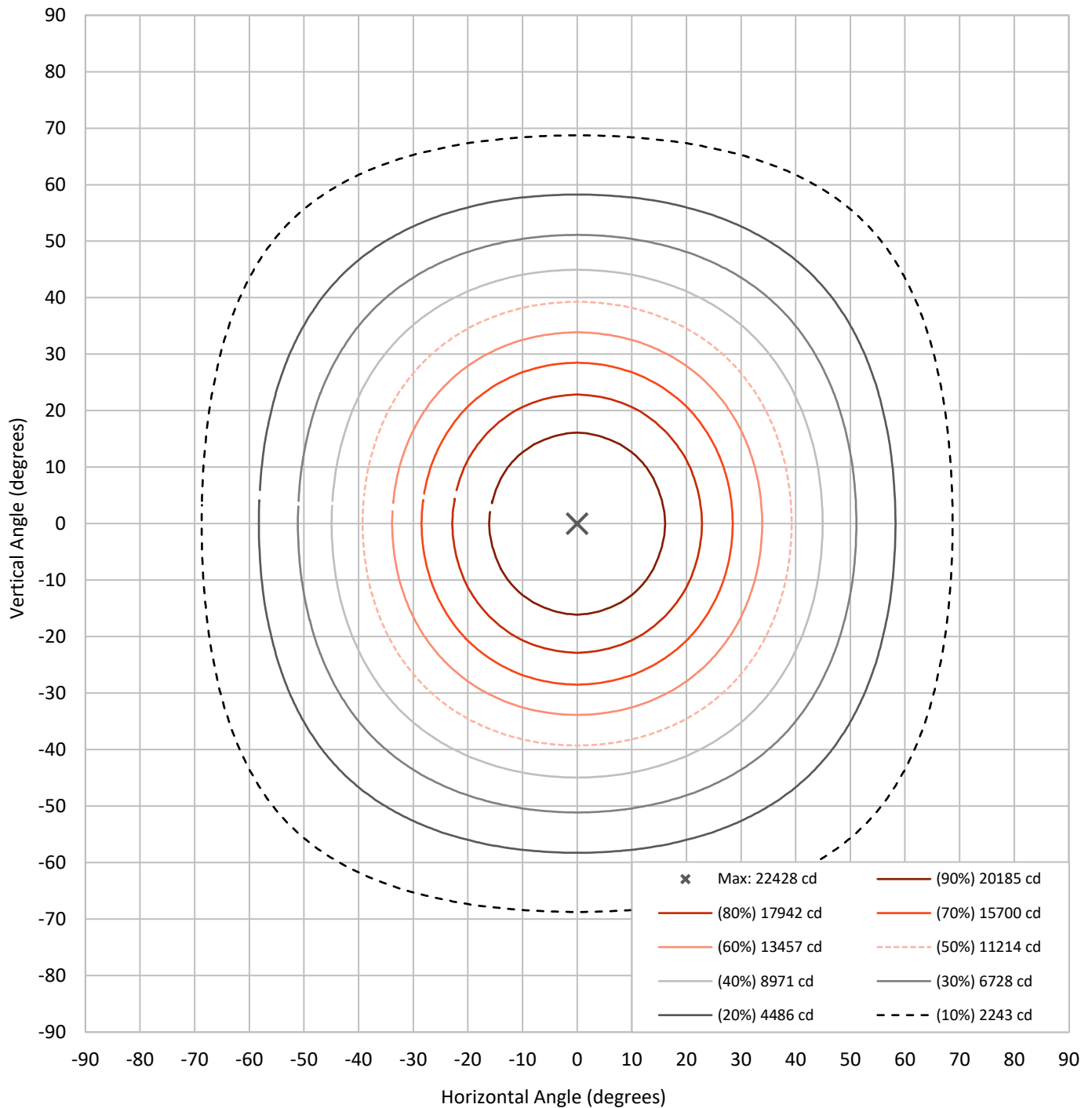
Test Method: LM-79-08
Report Number: P624789 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-765-15)
Test Lab: INNOVATION CENTER
Issue Date: 11/8/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-E-PRO-3000K-77
Description: EPHESUS LUMAVISION CCT TUNING FLOOD
3000K AND TYPE 77 OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	40374.4 lumens	Max Intensity:	22428 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	123.5 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	23294.1 lumens	Field Lumens:	38142.1 lumens
Beam Efficiency:	57.7%	Field Efficiency:	94.5%
Input Watts (W):	327		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

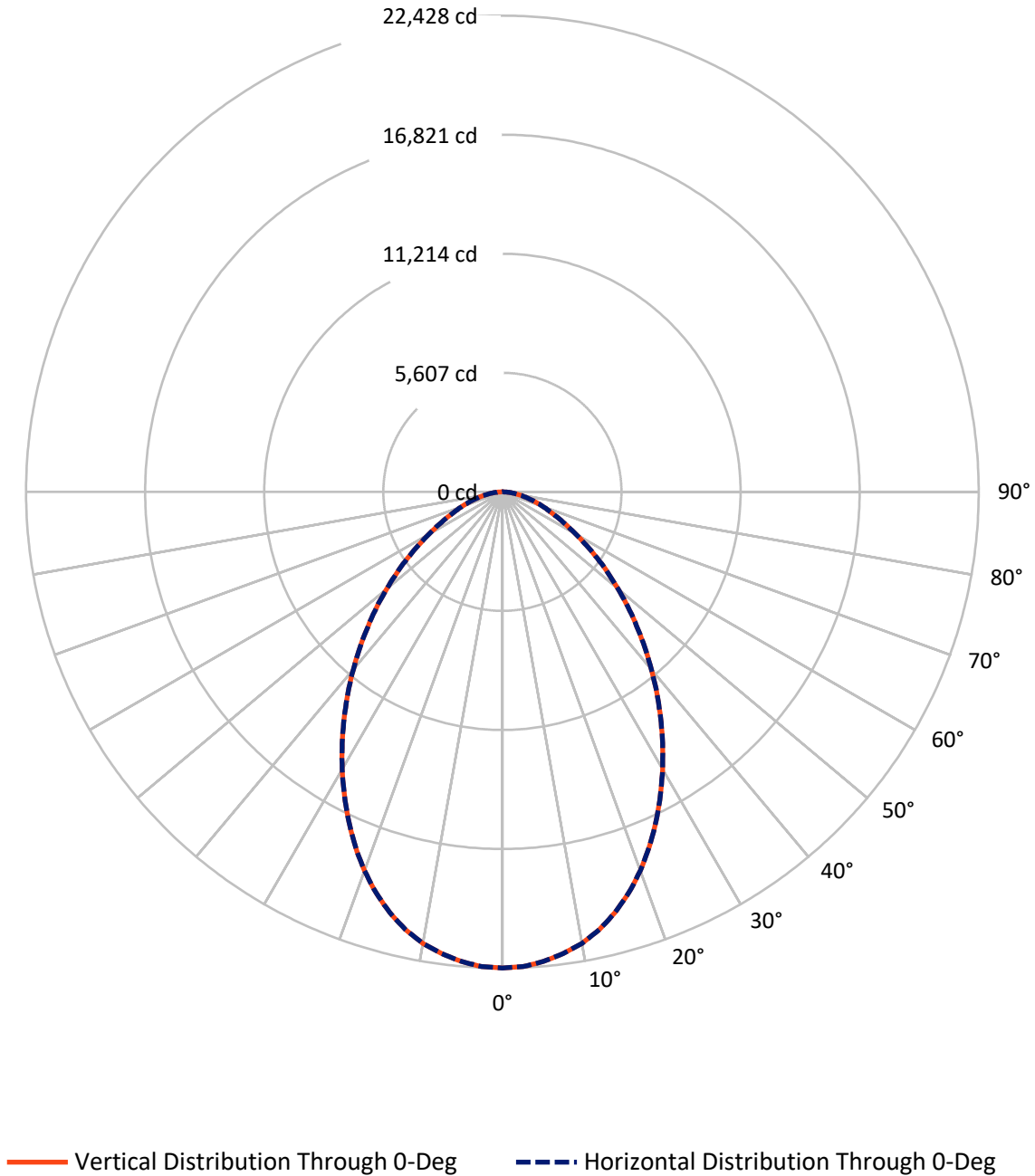
REPORT NUMBER: P624789 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: EPH-VN-08-E-PRO-3000K-77

Iso-Candela Plot



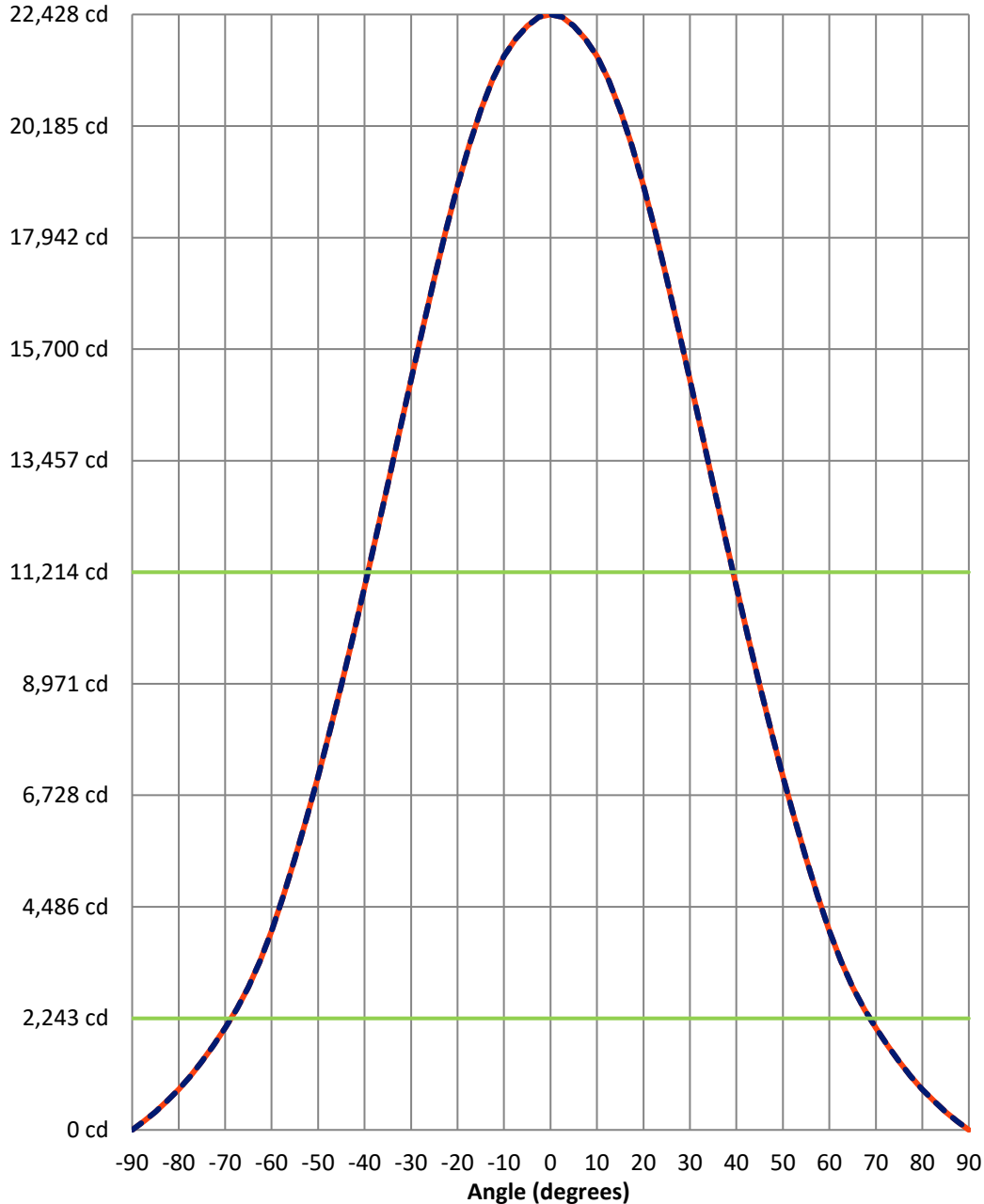
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 78.6°
 V Angle: 78.6°
 Lumens: 23294.1
 Efficiency: 57.7%

Field:
 H Angle: 137.5°
 V Angle: 137.5°
 Lumens: 38142.1
 Efficiency: 94.5%

Spill:
 Lumens: 2232.4
 Efficiency: 5.5%

- Vertical Distribution through 0-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	7.5	15.0	22.5	30.0	37.3	44.7	51.9	59.0	66.0	72.9
85°	0.0	15.0	30.0	45.0	59.9	74.6	89.2	103.7	117.9	132.0	145.7
82.5°	0.0	22.5	45.0	67.4	89.7	111.8	133.7	155.3	177.0	200.1	222.8
80°	0.0	30.0	59.9	89.7	119.3	148.7	178.4	210.0	241.2	271.9	302.1
77.5°	0.0	37.3	74.6	111.8	148.7	186.6	226.5	266.0	304.9	343.2	383.8
75°	0.0	44.7	89.2	133.7	178.4	226.5	274.2	321.5	369.0	422.0	474.1
72.5°	0.0	51.9	103.7	155.3	210.0	266.0	321.5	378.6	441.2	502.9	563.6
70°	0.0	59.0	117.9	177.0	241.2	304.9	369.0	441.2	512.5	582.9	656.1
67.5°	0.0	66.0	132.0	200.1	271.9	343.2	422.0	502.9	582.9	666.3	748.4
65°	0.0	72.9	145.7	222.8	302.1	383.8	474.1	563.6	656.1	748.4	843.2
62.5°	0.0	79.7	159.2	245.0	331.7	426.5	525.3	625.6	728.0	831.5	945.5
60°	0.0	86.3	172.4	266.7	360.7	468.3	575.3	687.3	798.4	922.0	1045.9
57.5°	0.0	92.7	186.6	287.9	393.1	509.0	626.7	747.6	875.1	1010.5	1152.5
55°	0.0	99.0	200.3	308.6	424.8	548.7	677.1	806.3	951.9	1099.3	1260.6
52.5°	0.0	105.1	213.6	328.6	455.6	587.6	726.0	870.7	1026.6	1194.0	1365.8
50°	0.0	110.9	226.5	347.9	485.4	627.1	773.4	934.0	1101.7	1285.9	1475.7
47.5°	0.0	116.6	239.0	367.3	514.2	665.1	820.1	995.2	1180.6	1374.8	1582.9
45°	0.0	122.0	250.9	388.0	541.9	701.8	870.4	1054.1	1256.7	1467.5	1686.3
42.5°	0.0	127.2	262.4	407.8	568.4	736.8	918.8	1114.8	1329.6	1556.8	1792.5
40°	0.0	132.2	273.3	426.8	594.4	770.3	964.9	1175.6	1401.3	1642.1	1895.2
37.5°	0.0	136.9	283.6	444.7	619.8	802.2	1008.8	1233.5	1473.3	1725.2	1993.1
35°	0.0	141.4	293.4	461.7	643.8	835.1	1050.3	1288.3	1541.5	1808.4	2089.0
32.5°	0.0	145.6	302.6	477.7	666.4	867.5	1090.8	1339.9	1605.7	1886.8	2184.0
30°	0.0	149.5	311.2	492.6	687.5	897.8	1131.9	1389.1	1665.8	1960.2	2273.0
27.5°	0.0	153.1	319.2	506.4	707.0	926.0	1170.1	1437.7	1723.3	2028.5	2356.0
25°	0.0	156.4	326.5	519.2	725.0	951.8	1205.3	1482.5	1778.9	2094.9	2433.0
22.5°	0.0	159.5	333.2	530.8	741.4	975.4	1237.4	1523.3	1829.6	2157.2	2514.6
20°	0.0	162.2	339.2	541.2	756.2	996.7	1266.3	1560.1	1875.3	2213.5	2588.3
17.5°	0.0	164.6	344.5	550.4	769.3	1015.5	1292.0	1592.8	1915.9	2263.5	2653.8
15°	0.0	166.7	349.2	558.5	780.7	1031.9	1314.3	1621.2	1951.3	2307.1	2711.0
12.5°	0.0	168.5	353.1	565.3	790.4	1045.9	1333.3	1645.5	1981.4	2344.2	2759.7
10°	0.0	170.0	356.3	571.0	798.4	1057.3	1348.9	1665.3	2006.2	2374.7	2799.7
7.5°	0.0	171.1	358.8	575.3	804.6	1066.3	1361.1	1680.9	2025.5	2398.6	2831.0
5°	0.0	171.9	360.7	578.5	809.0	1072.7	1369.8	1692.0	2039.3	2415.6	2853.4
2.5°	0.0	172.4	361.7	580.4	811.7	1076.5	1375.1	1698.7	2047.6	2425.9	2866.9
0°	0.0	172.6	362.1	581.0	812.6	1077.8	1376.8	1700.9	2050.4	2429.3	2871.4
-2.5°	0.0	172.4	361.7	580.4	811.7	1076.5	1375.1	1698.7	2047.6	2425.9	2866.9
-5°	0.0	171.9	360.7	578.5	809.0	1072.7	1369.8	1692.0	2039.3	2415.6	2853.4
-7.5°	0.0	171.1	358.8	575.3	804.6	1066.3	1361.1	1680.9	2025.5	2398.6	2831.0
-10°	0.0	170.0	356.3	571.0	798.4	1057.3	1348.9	1665.3	2006.2	2374.7	2799.7
-12.5°	0.0	168.5	353.1	565.3	790.4	1045.9	1333.3	1645.5	1981.4	2344.2	2759.7
-15°	0.0	166.7	349.2	558.5	780.7	1031.9	1314.3	1621.2	1951.3	2307.1	2711.0
-17.5°	0.0	164.6	344.5	550.4	769.3	1015.5	1292.0	1592.8	1915.9	2263.5	2653.8
-20°	0.0	162.2	339.2	541.2	756.2	996.7	1266.3	1560.1	1875.3	2213.5	2588.3

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Scaled Data Report



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CATALOG NUMBER: EPH-VN-08-E-PRO-3000K-77

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	159.5	333.2	530.8	741.4	975.4	1237.4	1523.3	1829.6	2157.2	2514.6
-25°	0.0	156.4	326.5	519.2	725.0	951.8	1205.3	1482.5	1778.9	2094.9	2433.0
-27.5°	0.0	153.1	319.2	506.4	707.0	926.0	1170.1	1437.7	1723.3	2028.5	2356.0
-30°	0.0	149.5	311.2	492.6	687.5	897.8	1131.9	1389.1	1665.8	1960.2	2273.0
-32.5°	0.0	145.6	302.6	477.7	666.4	867.5	1090.8	1339.9	1605.7	1886.8	2184.0
-35°	0.0	141.4	293.4	461.7	643.8	835.1	1050.3	1288.3	1541.5	1808.4	2089.0
-37.5°	0.0	136.9	283.6	444.7	619.8	802.2	1008.8	1233.5	1473.3	1725.2	1993.1
-40°	0.0	132.2	273.3	426.8	594.4	770.3	964.9	1175.6	1401.3	1642.1	1895.2
-42.5°	0.0	127.2	262.4	407.8	568.4	736.8	918.8	1114.8	1329.6	1556.8	1792.5
-45°	0.0	122.0	250.9	388.0	541.9	701.8	870.4	1054.1	1256.7	1467.5	1686.3
-47.5°	0.0	116.6	239.0	367.3	514.2	665.1	820.1	995.2	1180.6	1374.8	1582.9
-50°	0.0	110.9	226.5	347.9	485.4	627.1	773.4	934.0	1101.7	1285.9	1475.7
-52.5°	0.0	105.1	213.6	328.6	455.6	587.6	726.0	870.7	1026.6	1194.0	1365.8
-55°	0.0	99.0	200.3	308.6	424.8	548.7	677.1	806.3	951.9	1099.3	1260.6
-57.5°	0.0	92.7	186.6	287.9	393.1	509.0	626.7	747.6	875.1	1010.5	1152.5
-60°	0.0	86.3	172.4	266.7	360.7	468.3	575.3	687.3	798.4	922.0	1045.9
-62.5°	0.0	79.7	159.2	245.0	331.7	426.5	525.3	625.6	728.0	831.5	945.5
-65°	0.0	72.9	145.7	222.8	302.1	383.8	474.1	563.6	656.1	748.4	843.2
-67.5°	0.0	66.0	132.0	200.1	271.9	343.2	422.0	502.9	582.9	666.3	748.4
-70°	0.0	59.0	117.9	177.0	241.2	304.9	369.0	441.2	512.5	582.9	656.1
-72.5°	0.0	51.9	103.7	155.3	210.0	266.0	321.5	378.6	441.2	502.9	563.6
-75°	0.0	44.7	89.2	133.7	178.4	226.5	274.2	321.5	369.0	422.0	474.1
-77.5°	0.0	37.3	74.6	111.8	148.7	186.6	226.5	266.0	304.9	343.2	383.8
-80°	0.0	30.0	59.9	89.7	119.3	148.7	178.4	210.0	241.2	271.9	302.1
-82.5°	0.0	22.5	45.0	67.4	89.7	111.8	133.7	155.3	177.0	200.1	222.8
-85°	0.0	15.0	30.0	45.0	59.9	74.6	89.2	103.7	117.9	132.0	145.7
-87.5°	0.0	7.5	15.0	22.5	30.0	37.3	44.7	51.9	59.0	66.0	72.9
-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: P624789 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-E-PRO-3000K-77

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	79.7	86.3	92.7	99.0	105.1	110.9	116.6	122.0	127.2	132.2	136.9
85°	159.2	172.4	186.6	200.3	213.6	226.5	239.0	250.9	262.4	273.3	283.6
82.5°	245.0	266.7	287.9	308.6	328.6	347.9	367.3	388.0	407.8	426.8	444.7
80°	331.7	360.7	393.1	424.8	455.6	485.4	514.2	541.9	568.4	594.4	619.8
77.5°	426.5	468.3	509.0	548.7	587.6	627.1	665.1	701.8	736.8	770.3	802.2
75°	525.3	575.3	626.7	677.1	726.0	773.4	820.1	870.4	918.8	964.9	1008.8
72.5°	625.6	687.3	747.6	806.3	870.7	934.0	995.2	1054.1	1114.8	1175.6	1233.5
70°	728.0	798.4	875.1	951.9	1026.6	1101.7	1180.6	1256.7	1329.6	1401.3	1473.3
67.5°	831.5	922.0	1010.5	1099.3	1194.0	1285.9	1374.8	1467.5	1556.8	1642.1	1725.2
65°	945.5	1045.9	1152.5	1260.6	1365.8	1475.7	1582.9	1686.3	1792.5	1895.2	1993.1
62.5°	1057.7	1179.3	1300.8	1423.2	1548.6	1670.5	1795.5	1918.5	2036.9	2158.8	2276.1
60°	1179.3	1314.3	1452.5	1592.8	1731.8	1875.3	2014.4	2157.2	2297.7	2433.0	2583.3
57.5°	1300.8	1452.5	1607.5	1763.8	1923.5	2081.4	2245.0	2403.4	2577.3	2748.5	2919.6
55°	1423.2	1592.8	1763.8	1939.6	2116.6	2298.2	2482.2	2681.7	2874.9	3093.7	3303.3
52.5°	1548.6	1731.8	1923.5	2116.6	2315.9	2524.0	2744.9	2975.1	3219.8	3465.5	3727.9
50°	1670.5	1875.3	2081.4	2298.2	2524.0	2766.1	3025.6	3296.2	3584.7	3878.1	4184.5
47.5°	1795.5	2014.4	2245.0	2482.2	2744.9	3025.6	3321.8	3644.8	3969.2	4325.9	4673.6
45°	1918.5	2157.2	2403.4	2681.7	2975.1	3296.2	3644.8	3999.7	4397.2	4788.9	5190.9
42.5°	2036.9	2297.7	2577.3	2874.9	3219.8	3584.7	3969.2	4397.2	4828.2	5270.8	5713.0
40°	2158.8	2433.0	2748.5	3093.7	3465.5	3878.1	4325.9	4788.9	5270.8	5756.3	6237.0
37.5°	2276.1	2583.3	2919.6	3303.3	3727.9	4184.5	4673.6	5190.9	5713.0	6237.0	6770.6
35°	2387.6	2726.1	3103.7	3520.6	3978.3	4495.1	5032.5	5584.0	6148.9	6723.2	7299.6
32.5°	2503.5	2861.1	3277.8	3740.4	4249.1	4798.1	5376.3	5974.4	6581.7	7196.1	7830.4
30°	2618.7	3009.0	3449.4	3947.3	4507.6	5100.5	5716.6	6349.0	6998.6	7672.0	8346.4
27.5°	2726.1	3148.7	3627.0	4162.4	4753.8	5384.2	6040.8	6715.8	7411.7	8125.2	8840.5
25°	2825.3	3277.8	3791.4	4369.1	4997.3	5659.5	6347.1	7058.1	7805.1	8558.9	9319.8
22.5°	2924.0	3396.5	3942.0	4558.7	5221.1	5916.9	6640.0	7392.8	8173.6	8962.3	9769.7
20°	3020.8	3520.6	4090.4	4733.3	5424.1	6150.8	6906.7	7701.1	8515.8	9346.1	10193.8
17.5°	3107.0	3631.2	4230.6	4899.7	5614.7	6365.4	7148.5	7978.1	8823.7	9692.4	10582.5
15°	3182.2	3727.9	4353.2	5045.4	5783.5	6558.8	7373.3	8227.8	9101.6	10002.1	10927.3
12.5°	3246.3	3810.3	4457.9	5169.8	5927.7	6724.3	7565.9	8442.9	9344.7	10276.2	11231.2
10°	3299.1	3878.1	4544.0	5272.4	6046.7	6860.9	7725.1	8621.0	9546.2	10504.0	11484.2
7.5°	3340.3	3931.2	4611.5	5352.7	6139.9	6968.1	7850.0	8760.9	9704.8	10683.5	11683.9
5°	3369.8	3969.2	4659.8	5410.3	6206.9	7045.1	7939.9	8861.6	9819.0	10812.9	11828.1
2.5°	3387.6	3992.1	4688.9	5444.9	6247.1	7091.4	7994.0	8922.3	9887.9	10891.1	11915.3
0°	3393.5	3999.7	4698.6	5456.5	6260.6	7106.9	8012.1	8942.6	9910.9	10917.2	11944.5
-2.5°	3387.6	3992.1	4688.9	5444.9	6247.1	7091.4	7994.0	8922.3	9887.9	10891.1	11915.3
-5°	3369.8	3969.2	4659.8	5410.3	6206.9	7045.1	7939.9	8861.6	9819.0	10812.9	11828.1
-7.5°	3340.3	3931.2	4611.5	5352.7	6139.9	6968.1	7850.0	8760.9	9704.8	10683.5	11683.9
-10°	3299.1	3878.1	4544.0	5272.4	6046.7	6860.9	7725.1	8621.0	9546.2	10504.0	11484.2
-12.5°	3246.3	3810.3	4457.9	5169.8	5927.7	6724.3	7565.9	8442.9	9344.7	10276.2	11231.2
-15°	3182.2	3727.9	4353.2	5045.4	5783.5	6558.8	7373.3	8227.8	9101.6	10002.1	10927.3
-17.5°	3107.0	3631.2	4230.6	4899.7	5614.7	6365.4	7148.5	7978.1	8823.7	9692.4	10582.5
-20°	3020.8	3520.6	4090.4	4733.3	5424.1	6150.8	6906.7	7701.1	8515.8	9346.1	10193.8



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CATALOG NUMBER: EPH-VN-08-E-PRO-3000K-77

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	2924.0	3396.5	3942.0	4558.7	5221.1	5916.9	6640.0	7392.8	8173.6	8962.3	9769.7
-25°	2825.3	3277.8	3791.4	4369.1	4997.3	5659.5	6347.1	7058.1	7805.1	8558.9	9319.8
-27.5°	2726.1	3148.7	3627.0	4162.4	4753.8	5384.2	6040.8	6715.8	7411.7	8125.2	8840.5
-30°	2618.7	3009.0	3449.4	3947.3	4507.6	5100.5	5716.6	6349.0	6998.6	7672.0	8346.4
-32.5°	2503.5	2861.1	3277.8	3740.4	4249.1	4798.1	5376.3	5974.4	6581.7	7196.1	7830.4
-35°	2387.6	2726.1	3103.7	3520.6	3978.3	4495.1	5032.5	5584.0	6148.9	6723.2	7299.6
-37.5°	2276.1	2583.3	2919.6	3303.3	3727.9	4184.5	4673.6	5190.9	5713.0	6237.0	6770.6
-40°	2158.8	2433.0	2748.5	3093.7	3465.5	3878.1	4325.9	4788.9	5270.8	5756.3	6237.0
-42.5°	2036.9	2297.7	2577.3	2874.9	3219.8	3584.7	3969.2	4397.2	4828.2	5270.8	5713.0
-45°	1918.5	2157.2	2403.4	2681.7	2975.1	3296.2	3644.8	3999.7	4397.2	4788.9	5190.9
-47.5°	1795.5	2014.4	2245.0	2482.2	2744.9	3025.6	3321.8	3644.8	3969.2	4325.9	4673.6
-50°	1670.5	1875.3	2081.4	2298.2	2524.0	2766.1	3025.6	3296.2	3584.7	3878.1	4184.5
-52.5°	1548.6	1731.8	1923.5	2116.6	2315.9	2524.0	2744.9	2975.1	3219.8	3465.5	3727.9
-55°	1423.2	1592.8	1763.8	1939.6	2116.6	2298.2	2482.2	2681.7	2874.9	3093.7	3303.3
-57.5°	1300.8	1452.5	1607.5	1763.8	1923.5	2081.4	2245.0	2403.4	2577.3	2748.5	2919.6
-60°	1179.3	1314.3	1452.5	1592.8	1731.8	1875.3	2014.4	2157.2	2297.7	2433.0	2583.3
-62.5°	1057.7	1179.3	1300.8	1423.2	1548.6	1670.5	1795.5	1918.5	2036.9	2158.8	2276.1
-65°	945.5	1045.9	1152.5	1260.6	1365.8	1475.7	1582.9	1686.3	1792.5	1895.2	1993.1
-67.5°	831.5	922.0	1010.5	1099.3	1194.0	1285.9	1374.8	1467.5	1556.8	1642.1	1725.2
-70°	728.0	798.4	875.1	951.9	1026.6	1101.7	1180.6	1256.7	1329.6	1401.3	1473.3
-72.5°	625.6	687.3	747.6	806.3	870.7	934.0	995.2	1054.1	1114.8	1175.6	1233.5
-75°	525.3	575.3	626.7	677.1	726.0	773.4	820.1	870.4	918.8	964.9	1008.8
-77.5°	426.5	468.3	509.0	548.7	587.6	627.1	665.1	701.8	736.8	770.3	802.2
-80°	331.7	360.7	393.1	424.8	455.6	485.4	514.2	541.9	568.4	594.4	619.8
-82.5°	245.0	266.7	287.9	308.6	328.6	347.9	367.3	388.0	407.8	426.8	444.7
-85°	159.2	172.4	186.6	200.3	213.6	226.5	239.0	250.9	262.4	273.3	283.6
-87.5°	79.7	86.3	92.7	99.0	105.1	110.9	116.6	122.0	127.2	132.2	136.9
-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: P624789 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-E-PRO-3000K-77

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	141.4	145.6	149.5	153.1	156.4	159.5	162.2	164.6	166.7	168.5	170.0
85°	293.4	302.6	311.2	319.2	326.5	333.2	339.2	344.5	349.2	353.1	356.3
82.5°	461.7	477.7	492.6	506.4	519.2	530.8	541.2	550.4	558.5	565.3	571.0
80°	643.8	666.4	687.5	707.0	725.0	741.4	756.2	769.3	780.7	790.4	798.4
77.5°	835.1	867.5	897.8	926.0	951.8	975.4	996.7	1015.5	1031.9	1045.9	1057.3
75°	1050.3	1090.8	1131.9	1170.1	1205.3	1237.4	1266.3	1292.0	1314.3	1333.3	1348.9
72.5°	1288.3	1339.9	1389.1	1437.7	1482.5	1523.3	1560.1	1592.8	1621.2	1645.5	1665.3
70°	1541.5	1605.7	1665.8	1723.3	1778.9	1829.6	1875.3	1915.9	1951.3	1981.4	2006.2
67.5°	1808.4	1886.8	1960.2	2028.5	2094.9	2157.2	2213.5	2263.5	2307.1	2344.2	2374.7
65°	2089.0	2184.0	2273.0	2356.0	2433.0	2514.6	2588.3	2653.8	2711.0	2759.7	2799.7
62.5°	2387.6	2503.5	2618.7	2726.1	2825.3	2924.0	3020.8	3107.0	3182.2	3246.3	3299.1
60°	2726.1	2861.1	3009.0	3148.7	3277.8	3396.5	3520.6	3631.2	3727.9	3810.3	3878.1
57.5°	3103.7	3277.8	3449.4	3627.0	3791.4	3942.0	4090.4	4230.6	4353.2	4457.9	4544.0
55°	3520.6	3740.4	3947.3	4162.4	4369.1	4558.7	4733.3	4899.7	5045.4	5169.8	5272.4
52.5°	3978.3	4249.1	4507.6	4753.8	4997.3	5221.1	5424.1	5614.7	5783.5	5927.7	6046.7
50°	4495.1	4798.1	5100.5	5384.2	5659.5	5916.9	6150.8	6365.4	6558.8	6724.3	6860.9
47.5°	5032.5	5376.3	5716.6	6040.8	6347.1	6640.0	6906.7	7148.5	7373.3	7565.9	7725.1
45°	5584.0	5974.4	6349.0	6715.8	7058.1	7392.8	7701.1	7978.1	8227.8	8442.9	8621.0
42.5°	6148.9	6581.7	6998.6	7411.7	7805.1	8173.6	8515.8	8823.7	9101.6	9344.7	9546.2
40°	6723.2	7196.1	7672.0	8125.2	8558.9	8962.3	9346.1	9692.4	10002.1	10276.2	10504.0
37.5°	7299.6	7830.4	8346.4	8840.5	9319.8	9769.7	10193.8	10582.5	10927.3	11231.2	11484.2
35°	7883.6	8458.3	9014.9	9563.0	10086.6	10588.2	11053.4	11481.9	11863.0	12195.1	12472.9
32.5°	8458.3	9074.9	9686.2	10283.6	10857.3	11404.8	11912.6	12378.7	12795.1	13160.5	13469.8
30°	9014.9	9686.2	10349.8	10995.4	11619.9	12209.6	12760.1	13269.4	13730.1	14131.1	14465.1
27.5°	9563.0	10283.6	10995.4	11692.3	12360.7	12994.5	13598.1	14151.7	14645.8	15079.2	15439.5
25°	10086.6	10857.3	11619.9	12360.7	13075.1	13765.7	14409.4	15001.7	15531.2	15997.4	16388.9
22.5°	10588.2	11404.8	12209.6	12994.5	13765.7	14496.5	15182.1	15811.6	16381.8	16884.3	17306.3
20°	11053.4	11912.6	12760.1	13598.1	14409.4	15182.1	15906.7	16578.5	17190.9	17719.9	18170.2
17.5°	11481.9	12378.7	13269.4	14151.7	15001.7	15811.6	16578.5	17292.0	17934.3	18484.9	18956.1
15°	11863.0	12795.1	13730.1	14645.8	15531.2	16381.8	17190.9	17934.3	18592.8	19167.3	19642.4
12.5°	12195.1	13160.5	14131.1	15079.2	15997.4	16884.3	17719.9	18484.9	19167.3	19757.8	20231.3
10°	12472.9	13469.8	14465.1	15439.5	16388.9	17306.3	18170.2	18956.1	19642.4	20231.3	20720.7
7.5°	12692.7	13715.1	14730.9	15727.4	16702.0	17639.8	18515.6	19309.6	20011.0	20613.9	21114.6
5°	12851.7	13893.0	14924.3	15937.5	16931.5	17885.6	18772.1	19572.9	20278.1	20880.3	21365.8
2.5°	12948.0	14000.9	15041.7	16065.4	17071.7	18036.4	18930.5	19736.7	20446.4	21051.1	21531.7
0°	12980.2	14037.0	15081.1	16108.4	17118.9	18087.3	18984.0	19792.4	20503.9	21110.2	21590.2
-2.5°	12948.0	14000.9	15041.7	16065.4	17071.7	18036.4	18930.5	19736.7	20446.4	21051.1	21531.7
-5°	12851.7	13893.0	14924.3	15937.5	16931.5	17885.6	18772.1	19572.9	20278.1	20880.3	21365.8
-7.5°	12692.7	13715.1	14730.9	15727.4	16702.0	17639.8	18515.6	19309.6	20011.0	20613.9	21114.6
-10°	12472.9	13469.8	14465.1	15439.5	16388.9	17306.3	18170.2	18956.1	19642.4	20231.3	20720.7
-12.5°	12195.1	13160.5	14131.1	15079.2	15997.4	16884.3	17719.9	18484.9	19167.3	19757.8	20231.3
-15°	11863.0	12795.1	13730.1	14645.8	15531.2	16381.8	17190.9	17934.3	18592.8	19167.3	19642.4
-17.5°	11481.9	12378.7	13269.4	14151.7	15001.7	15811.6	16578.5	17292.0	17934.3	18484.9	18956.1
-20°	11053.4	11912.6	12760.1	13598.1	14409.4	15182.1	15906.7	16578.5	17190.9	17719.9	18170.2



REPORT NUMBER: P624789 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-E-PRO-3000K-77

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	10588.2	11404.8	12209.6	12994.5	13765.7	14496.5	15182.1	15811.6	16381.8	16884.3	17306.3
-25°	10086.6	10857.3	11619.9	12360.7	13075.1	13765.7	14409.4	15001.7	15531.2	15997.4	16388.9
-27.5°	9563.0	10283.6	10995.4	11692.3	12360.7	12994.5	13598.1	14151.7	14645.8	15079.2	15439.5
-30°	9014.9	9686.2	10349.8	10995.4	11619.9	12209.6	12760.1	13269.4	13730.1	14131.1	14465.1
-32.5°	8458.3	9074.9	9686.2	10283.6	10857.3	11404.8	11912.6	12378.7	12795.1	13160.5	13469.8
-35°	7883.6	8458.3	9014.9	9563.0	10086.6	10588.2	11053.4	11481.9	11863.0	12195.1	12472.9
-37.5°	7299.6	7830.4	8346.4	8840.5	9319.8	9769.7	10193.8	10582.5	10927.3	11231.2	11484.2
-40°	6723.2	7196.1	7672.0	8125.2	8558.9	8962.3	9346.1	9692.4	10002.1	10276.2	10504.0
-42.5°	6148.9	6581.7	6998.6	7411.7	7805.1	8173.6	8515.8	8823.7	9101.6	9344.7	9546.2
-45°	5584.0	5974.4	6349.0	6715.8	7058.1	7392.8	7701.1	7978.1	8227.8	8442.9	8621.0
-47.5°	5032.5	5376.3	5716.6	6040.8	6347.1	6640.0	6906.7	7148.5	7373.3	7565.9	7725.1
-50°	4495.1	4798.1	5100.5	5384.2	5659.5	5916.9	6150.8	6365.4	6558.8	6724.3	6860.9
-52.5°	3978.3	4249.1	4507.6	4753.8	4997.3	5221.1	5424.1	5614.7	5783.5	5927.7	6046.7
-55°	3520.6	3740.4	3947.3	4162.4	4369.1	4558.7	4733.3	4899.7	5045.4	5169.8	5272.4
-57.5°	3103.7	3277.8	3449.4	3627.0	3791.4	3942.0	4090.4	4230.6	4353.2	4457.9	4544.0
-60°	2726.1	2861.1	3009.0	3148.7	3277.8	3396.5	3520.6	3631.2	3727.9	3810.3	3878.1
-62.5°	2387.6	2503.5	2618.7	2726.1	2825.3	2924.0	3020.8	3107.0	3182.2	3246.3	3299.1
-65°	2089.0	2184.0	2273.0	2356.0	2433.0	2514.6	2588.3	2653.8	2711.0	2759.7	2799.7
-67.5°	1808.4	1886.8	1960.2	2028.5	2094.9	2157.2	2213.5	2263.5	2307.1	2344.2	2374.7
-70°	1541.5	1605.7	1665.8	1723.3	1778.9	1829.6	1875.3	1915.9	1951.3	1981.4	2006.2
-72.5°	1288.3	1339.9	1389.1	1437.7	1482.5	1523.3	1560.1	1592.8	1621.2	1645.5	1665.3
-75°	1050.3	1090.8	1131.9	1170.1	1205.3	1237.4	1266.3	1292.0	1314.3	1333.3	1348.9
-77.5°	835.1	867.5	897.8	926.0	951.8	975.4	996.7	1015.5	1031.9	1045.9	1057.3
-80°	643.8	666.4	687.5	707.0	725.0	741.4	756.2	769.3	780.7	790.4	798.4
-82.5°	461.7	477.7	492.6	506.4	519.2	530.8	541.2	550.4	558.5	565.3	571.0
-85°	293.4	302.6	311.2	319.2	326.5	333.2	339.2	344.5	349.2	353.1	356.3
-87.5°	141.4	145.6	149.5	153.1	156.4	159.5	162.2	164.6	166.7	168.5	170.0
-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: P624789 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-E-PRO-3000K-77

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	171.1	171.9	172.4	172.6	172.4	171.9	171.1	170.0	168.5	166.7	164.6
85°	358.8	360.7	361.7	362.1	361.7	360.7	358.8	356.3	353.1	349.2	344.5
82.5°	575.3	578.5	580.4	581.0	580.4	578.5	575.3	571.0	565.3	558.5	550.4
80°	804.6	809.0	811.7	812.6	811.7	809.0	804.6	798.4	790.4	780.7	769.3
77.5°	1066.3	1072.7	1076.5	1077.8	1076.5	1072.7	1066.3	1057.3	1045.9	1031.9	1015.5
75°	1361.1	1369.8	1375.1	1376.8	1375.1	1369.8	1361.1	1348.9	1333.3	1314.3	1292.0
72.5°	1680.9	1692.0	1698.7	1700.9	1698.7	1692.0	1680.9	1665.3	1645.5	1621.2	1592.8
70°	2025.5	2039.3	2047.6	2050.4	2047.6	2039.3	2025.5	2006.2	1981.4	1951.3	1915.9
67.5°	2398.6	2415.6	2425.9	2429.3	2425.9	2415.6	2398.6	2374.7	2344.2	2307.1	2263.5
65°	2831.0	2853.4	2866.9	2871.4	2866.9	2853.4	2831.0	2799.7	2759.7	2711.0	2653.8
62.5°	3340.3	3369.8	3387.6	3393.5	3387.6	3369.8	3340.3	3299.1	3246.3	3182.2	3107.0
60°	3931.2	3969.2	3992.1	3999.7	3992.1	3969.2	3931.2	3878.1	3810.3	3727.9	3631.2
57.5°	4611.5	4659.8	4688.9	4698.6	4688.9	4659.8	4611.5	4544.0	4457.9	4353.2	4230.6
55°	5352.7	5410.3	5444.9	5456.5	5444.9	5410.3	5352.7	5272.4	5169.8	5045.4	4899.7
52.5°	6139.9	6206.9	6247.1	6260.6	6247.1	6206.9	6139.9	6046.7	5927.7	5783.5	5614.7
50°	6968.1	7045.1	7091.4	7106.9	7091.4	7045.1	6968.1	6860.9	6724.3	6558.8	6365.4
47.5°	7850.0	7939.9	7994.0	8012.1	7994.0	7939.9	7850.0	7725.1	7565.9	7373.3	7148.5
45°	8760.9	8861.6	8922.3	8942.6	8922.3	8861.6	8760.9	8621.0	8442.9	8227.8	7978.1
42.5°	9704.8	9819.0	9887.9	9910.9	9887.9	9819.0	9704.8	9546.2	9344.7	9101.6	8823.7
40°	10683.5	10812.9	10891.1	10917.2	10891.1	10812.9	10683.5	10504.0	10276.2	10002.1	9692.4
37.5°	11683.9	11828.1	11915.3	11944.5	11915.3	11828.1	11683.9	11484.2	11231.2	10927.3	10582.5
35°	12692.7	12851.7	12948.0	12980.2	12948.0	12851.7	12692.7	12472.9	12195.1	11863.0	11481.9
32.5°	13715.1	13893.0	14000.9	14037.0	14000.9	13893.0	13715.1	13469.8	13160.5	12795.1	12378.7
30°	14730.9	14924.3	15041.7	15081.1	15041.7	14924.3	14730.9	14465.1	14131.1	13730.1	13269.4
27.5°	15727.4	15937.5	16065.4	16108.4	16065.4	15937.5	15727.4	15439.5	15079.2	14645.8	14151.7
25°	16702.0	16931.5	17071.7	17118.9	17071.7	16931.5	16702.0	16388.9	15997.4	15531.2	15001.7
22.5°	17639.8	17885.6	18036.4	18087.3	18036.4	17885.6	17639.8	17306.3	16884.3	16381.8	15811.6
20°	18515.6	18772.1	18930.5	18984.0	18930.5	18772.1	18515.6	18170.2	17719.9	17190.9	16578.5
17.5°	19309.6	19572.9	19736.7	19792.4	19736.7	19572.9	19309.6	18956.1	18484.9	17934.3	17292.0
15°	20011.0	20278.1	20446.4	20503.9	20446.4	20278.1	20011.0	19642.4	19167.3	18592.8	17934.3
12.5°	20613.9	20880.3	21051.1	21110.2	21051.1	20880.3	20613.9	20231.3	19757.8	19167.3	18484.9
10°	21114.6	21365.8	21531.7	21590.2	21531.7	21365.8	21114.6	20720.7	20231.3	19642.4	18956.1
7.5°	21476.6	21727.5	21879.7	21935.4	21879.7	21727.5	21476.6	21114.6	20613.9	20011.0	19309.6
5°	21727.5	21980.7	22135.0	22196.5	22135.0	21980.7	21727.5	21365.8	20880.3	20278.1	19572.9
2.5°	21879.7	22135.0	22302.6	22377.5	22302.6	22135.0	21879.7	21531.7	21051.1	20446.4	19736.7
0°	21935.4	22196.5	22377.5	22428.0	22377.5	22196.5	21935.4	21590.2	21110.2	20503.9	19792.4
-2.5°	21879.7	22135.0	22302.6	22377.5	22302.6	22135.0	21879.7	21531.7	21051.1	20446.4	19736.7
-5°	21727.5	21980.7	22135.0	22196.5	22135.0	21980.7	21727.5	21365.8	20880.3	20278.1	19572.9
-7.5°	21476.6	21727.5	21879.7	21935.4	21879.7	21727.5	21476.6	21114.6	20613.9	20011.0	19309.6
-10°	21114.6	21365.8	21531.7	21590.2	21531.7	21365.8	21114.6	20720.7	20231.3	19642.4	18956.1
-12.5°	20613.9	20880.3	21051.1	21110.2	21051.1	20880.3	20613.9	20231.3	19757.8	19167.3	18484.9
-15°	20011.0	20278.1	20446.4	20503.9	20446.4	20278.1	20011.0	19642.4	19167.3	18592.8	17934.3
-17.5°	19309.6	19572.9	19736.7	19792.4	19736.7	19572.9	19309.6	18956.1	18484.9	17934.3	17292.0
-20°	18515.6	18772.1	18930.5	18984.0	18930.5	18772.1	18515.6	18170.2	17719.9	17190.9	16578.5



REPORT NUMBER: P624789 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-VN-08-E-PRO-3000K-77

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	17639.8	17885.6	18036.4	18087.3	18036.4	17885.6	17639.8	17306.3	16884.3	16381.8	15811.6
-25°	16702.0	16931.5	17071.7	17118.9	17071.7	16931.5	16702.0	16388.9	15997.4	15531.2	15001.7
-27.5°	15727.4	15937.5	16065.4	16108.4	16065.4	15937.5	15727.4	15439.5	15079.2	14645.8	14151.7
-30°	14730.9	14924.3	15041.7	15081.1	15041.7	14924.3	14730.9	14465.1	14131.1	13730.1	13269.4
-32.5°	13715.1	13893.0	14000.9	14037.0	14000.9	13893.0	13715.1	13469.8	13160.5	12795.1	12378.7
-35°	12692.7	12851.7	12948.0	12980.2	12948.0	12851.7	12692.7	12472.9	12195.1	11863.0	11481.9
-37.5°	11683.9	11828.1	11915.3	11944.5	11915.3	11828.1	11683.9	11484.2	11231.2	10927.3	10582.5
-40°	10683.5	10812.9	10891.1	10917.2	10891.1	10812.9	10683.5	10504.0	10276.2	10002.1	9692.4
-42.5°	9704.8	9819.0	9887.9	9910.9	9887.9	9819.0	9704.8	9546.2	9344.7	9101.6	8823.7
-45°	8760.9	8861.6	8922.3	8942.6	8922.3	8861.6	8760.9	8621.0	8442.9	8227.8	7978.1
-47.5°	7850.0	7939.9	7994.0	8012.1	7994.0	7939.9	7850.0	7725.1	7565.9	7373.3	7148.5
-50°	6968.1	7045.1	7091.4	7106.9	7091.4	7045.1	6968.1	6860.9	6724.3	6558.8	6365.4
-52.5°	6139.9	6206.9	6247.1	6260.6	6247.1	6206.9	6139.9	6046.7	5927.7	5783.5	5614.7
-55°	5352.7	5410.3	5444.9	5456.5	5444.9	5410.3	5352.7	5272.4	5169.8	5045.4	4899.7
-57.5°	4611.5	4659.8	4688.9	4698.6	4688.9	4659.8	4611.5	4544.0	4457.9	4353.2	4230.6
-60°	3931.2	3969.2	3992.1	3999.7	3992.1	3969.2	3931.2	3878.1	3810.3	3727.9	3631.2
-62.5°	3340.3	3369.8	3387.6	3393.5	3387.6	3369.8	3340.3	3299.1	3246.3	3182.2	3107.0
-65°	2831.0	2853.4	2866.9	2871.4	2866.9	2853.4	2831.0	2799.7	2759.7	2711.0	2653.8
-67.5°	2398.6	2415.6	2425.9	2429.3	2425.9	2415.6	2398.6	2374.7	2344.2	2307.1	2263.5
-70°	2025.5	2039.3	2047.6	2050.4	2047.6	2039.3	2025.5	2006.2	1981.4	1951.3	1915.9
-72.5°	1680.9	1692.0	1698.7	1700.9	1698.7	1692.0	1680.9	1665.3	1645.5	1621.2	1592.8
-75°	1361.1	1369.8	1375.1	1376.8	1375.1	1369.8	1361.1	1348.9	1333.3	1314.3	1292.0
-77.5°	1066.3	1072.7	1076.5	1077.8	1076.5	1072.7	1066.3	1057.3	1045.9	1031.9	1015.5
-80°	804.6	809.0	811.7	812.6	811.7	809.0	804.6	798.4	790.4	780.7	769.3
-82.5°	575.3	578.5	580.4	581.0	580.4	578.5	575.3	571.0	565.3	558.5	550.4
-85°	358.8	360.7	361.7	362.1	361.7	360.7	358.8	356.3	353.1	349.2	344.5
-87.5°	171.1	171.9	172.4	172.6	172.4	171.9	171.1	170.0	168.5	166.7	164.6
-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: P624789 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-VN-08-E-PRO-3000K-77

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	162.2	159.5	156.4	153.1	149.5	145.6	141.4	136.9	132.2	127.2	122.0
85°	339.2	333.2	326.5	319.2	311.2	302.6	293.4	283.6	273.3	262.4	250.9
82.5°	541.2	530.8	519.2	506.4	492.6	477.7	461.7	444.7	426.8	407.8	388.0
80°	756.2	741.4	725.0	707.0	687.5	666.4	643.8	619.8	594.4	568.4	541.9
77.5°	996.7	975.4	951.8	926.0	897.8	867.5	835.1	802.2	770.3	736.8	701.8
75°	1266.3	1237.4	1205.3	1170.1	1131.9	1090.8	1050.3	1008.8	964.9	918.8	870.4
72.5°	1560.1	1523.3	1482.5	1437.7	1389.1	1339.9	1288.3	1233.5	1175.6	1114.8	1054.1
70°	1875.3	1829.6	1778.9	1723.3	1665.8	1605.7	1541.5	1473.3	1401.3	1329.6	1256.7
67.5°	2213.5	2157.2	2094.9	2028.5	1960.2	1886.8	1808.4	1725.2	1642.1	1556.8	1467.5
65°	2588.3	2514.6	2433.0	2356.0	2273.0	2184.0	2089.0	1993.1	1895.2	1792.5	1686.3
62.5°	3020.8	2924.0	2825.3	2726.1	2618.7	2503.5	2387.6	2276.1	2158.8	2036.9	1918.5
60°	3520.6	3396.5	3277.8	3148.7	3009.0	2861.1	2726.1	2583.3	2433.0	2297.7	2157.2
57.5°	4090.4	3942.0	3791.4	3627.0	3449.4	3277.8	3103.7	2919.6	2748.5	2577.3	2403.4
55°	4733.3	4558.7	4369.1	4162.4	3947.3	3740.4	3520.6	3303.3	3093.7	2874.9	2681.7
52.5°	5424.1	5221.1	4997.3	4753.8	4507.6	4249.1	3978.3	3727.9	3465.5	3219.8	2975.1
50°	6150.8	5916.9	5659.5	5384.2	5100.5	4798.1	4495.1	4184.5	3878.1	3584.7	3296.2
47.5°	6906.7	6640.0	6347.1	6040.8	5716.6	5376.3	5032.5	4673.6	4325.9	3969.2	3644.8
45°	7701.1	7392.8	7058.1	6715.8	6349.0	5974.4	5584.0	5190.9	4788.9	4397.2	3999.7
42.5°	8515.8	8173.6	7805.1	7411.7	6998.6	6581.7	6148.9	5713.0	5270.8	4828.2	4397.2
40°	9346.1	8962.3	8558.9	8125.2	7672.0	7196.1	6723.2	6237.0	5756.3	5270.8	4788.9
37.5°	10193.8	9769.7	9319.8	8840.5	8346.4	7830.4	7299.6	6770.6	6237.0	5713.0	5190.9
35°	11053.4	10588.2	10086.6	9563.0	9014.9	8458.3	7883.6	7299.6	6723.2	6148.9	5584.0
32.5°	11912.6	11404.8	10857.3	10283.6	9686.2	9074.9	8458.3	7830.4	7196.1	6581.7	5974.4
30°	12760.1	12209.6	11619.9	10995.4	10349.8	9686.2	9014.9	8346.4	7672.0	6998.6	6349.0
27.5°	13598.1	12994.5	12360.7	11692.3	10995.4	10283.6	9563.0	8840.5	8125.2	7411.7	6715.8
25°	14409.4	13765.7	13075.1	12360.7	11619.9	10857.3	10086.6	9319.8	8558.9	7805.1	7058.1
22.5°	15182.1	14496.5	13765.7	12994.5	12209.6	11404.8	10588.2	9769.7	8962.3	8173.6	7392.8
20°	15906.7	15182.1	14409.4	13598.1	12760.1	11912.6	11053.4	10193.8	9346.1	8515.8	7701.1
17.5°	16578.5	15811.6	15001.7	14151.7	13269.4	12378.7	11481.9	10582.5	9692.4	8823.7	7978.1
15°	17190.9	16381.8	15531.2	14645.8	13730.1	12795.1	11863.0	10927.3	10002.1	9101.6	8227.8
12.5°	17719.9	16884.3	15997.4	15079.2	14131.1	13160.5	12195.1	11231.2	10276.2	9344.7	8442.9
10°	18170.2	17306.3	16388.9	15439.5	14465.1	13469.8	12472.9	11484.2	10504.0	9546.2	8621.0
7.5°	18515.6	17639.8	16702.0	15727.4	14730.9	13715.1	12692.7	11683.9	10683.5	9704.8	8760.9
5°	18772.1	17885.6	16931.5	15937.5	14924.3	13893.0	12851.7	11828.1	10812.9	9819.0	8861.6
2.5°	18930.5	18036.4	17071.7	16065.4	15041.7	14000.9	12948.0	11915.3	10891.1	9887.9	8922.3
0°	18984.0	18087.3	17118.9	16108.4	15081.1	14037.0	12980.2	11944.5	10917.2	9910.9	8942.6
-2.5°	18930.5	18036.4	17071.7	16065.4	15041.7	14000.9	12948.0	11915.3	10891.1	9887.9	8922.3
-5°	18772.1	17885.6	16931.5	15937.5	14924.3	13893.0	12851.7	11828.1	10812.9	9819.0	8861.6
-7.5°	18515.6	17639.8	16702.0	15727.4	14730.9	13715.1	12692.7	11683.9	10683.5	9704.8	8760.9
-10°	18170.2	17306.3	16388.9	15439.5	14465.1	13469.8	12472.9	11484.2	10504.0	9546.2	8621.0
-12.5°	17719.9	16884.3	15997.4	15079.2	14131.1	13160.5	12195.1	11231.2	10276.2	9344.7	8442.9
-15°	17190.9	16381.8	15531.2	14645.8	13730.1	12795.1	11863.0	10927.3	10002.1	9101.6	8227.8
-17.5°	16578.5	15811.6	15001.7	14151.7	13269.4	12378.7	11481.9	10582.5	9692.4	8823.7	7978.1
-20°	15906.7	15182.1	14409.4	13598.1	12760.1	11912.6	11053.4	10193.8	9346.1	8515.8	7701.1



REPORT NUMBER: P624789 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-E-PRO-3000K-77

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	15182.1	14496.5	13765.7	12994.5	12209.6	11404.8	10588.2	9769.7	8962.3	8173.6	7392.8
-25°	14409.4	13765.7	13075.1	12360.7	11619.9	10857.3	10086.6	9319.8	8558.9	7805.1	7058.1
-27.5°	13598.1	12994.5	12360.7	11692.3	10995.4	10283.6	9563.0	8840.5	8125.2	7411.7	6715.8
-30°	12760.1	12209.6	11619.9	10995.4	10349.8	9686.2	9014.9	8346.4	7672.0	6998.6	6349.0
-32.5°	11912.6	11404.8	10857.3	10283.6	9686.2	9074.9	8458.3	7830.4	7196.1	6581.7	5974.4
-35°	11053.4	10588.2	10086.6	9563.0	9014.9	8458.3	7883.6	7299.6	6723.2	6148.9	5584.0
-37.5°	10193.8	9769.7	9319.8	8840.5	8346.4	7830.4	7299.6	6770.6	6237.0	5713.0	5190.9
-40°	9346.1	8962.3	8558.9	8125.2	7672.0	7196.1	6723.2	6237.0	5756.3	5270.8	4788.9
-42.5°	8515.8	8173.6	7805.1	7411.7	6998.6	6581.7	6148.9	5713.0	5270.8	4828.2	4397.2
-45°	7701.1	7392.8	7058.1	6715.8	6349.0	5974.4	5584.0	5190.9	4788.9	4397.2	3999.7
-47.5°	6906.7	6640.0	6347.1	6040.8	5716.6	5376.3	5032.5	4673.6	4325.9	3969.2	3644.8
-50°	6150.8	5916.9	5659.5	5384.2	5100.5	4798.1	4495.1	4184.5	3878.1	3584.7	3296.2
-52.5°	5424.1	5221.1	4997.3	4753.8	4507.6	4249.1	3978.3	3727.9	3465.5	3219.8	2975.1
-55°	4733.3	4558.7	4369.1	4162.4	3947.3	3740.4	3520.6	3303.3	3093.7	2874.9	2681.7
-57.5°	4090.4	3942.0	3791.4	3627.0	3449.4	3277.8	3103.7	2919.6	2748.5	2577.3	2403.4
-60°	3520.6	3396.5	3277.8	3148.7	3009.0	2861.1	2726.1	2583.3	2433.0	2297.7	2157.2
-62.5°	3020.8	2924.0	2825.3	2726.1	2618.7	2503.5	2387.6	2276.1	2158.8	2036.9	1918.5
-65°	2588.3	2514.6	2433.0	2356.0	2273.0	2184.0	2089.0	1993.1	1895.2	1792.5	1686.3
-67.5°	2213.5	2157.2	2094.9	2028.5	1960.2	1886.8	1808.4	1725.2	1642.1	1556.8	1467.5
-70°	1875.3	1829.6	1778.9	1723.3	1665.8	1605.7	1541.5	1473.3	1401.3	1329.6	1256.7
-72.5°	1560.1	1523.3	1482.5	1437.7	1389.1	1339.9	1288.3	1233.5	1175.6	1114.8	1054.1
-75°	1266.3	1237.4	1205.3	1170.1	1131.9	1090.8	1050.3	1008.8	964.9	918.8	870.4
-77.5°	996.7	975.4	951.8	926.0	897.8	867.5	835.1	802.2	770.3	736.8	701.8
-80°	756.2	741.4	725.0	707.0	687.5	666.4	643.8	619.8	594.4	568.4	541.9
-82.5°	541.2	530.8	519.2	506.4	492.6	477.7	461.7	444.7	426.8	407.8	388.0
-85°	339.2	333.2	326.5	319.2	311.2	302.6	293.4	283.6	273.3	262.4	250.9
-87.5°	162.2	159.5	156.4	153.1	149.5	145.6	141.4	136.9	132.2	127.2	122.0
-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: P624789 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-E-PRO-3000K-77

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	116.6	110.9	105.1	99.0	92.7	86.3	79.7	72.9	66.0	59.0	51.9
85°	239.0	226.5	213.6	200.3	186.6	172.4	159.2	145.7	132.0	117.9	103.7
82.5°	367.3	347.9	328.6	308.6	287.9	266.7	245.0	222.8	200.1	177.0	155.3
80°	514.2	485.4	455.6	424.8	393.1	360.7	331.7	302.1	271.9	241.2	210.0
77.5°	665.1	627.1	587.6	548.7	509.0	468.3	426.5	383.8	343.2	304.9	266.0
75°	820.1	773.4	726.0	677.1	626.7	575.3	525.3	474.1	422.0	369.0	321.5
72.5°	995.2	934.0	870.7	806.3	747.6	687.3	625.6	563.6	502.9	441.2	378.6
70°	1180.6	1101.7	1026.6	951.9	875.1	798.4	728.0	656.1	582.9	512.5	441.2
67.5°	1374.8	1285.9	1194.0	1099.3	1010.5	922.0	831.5	748.4	666.3	582.9	502.9
65°	1582.9	1475.7	1365.8	1260.6	1152.5	1045.9	945.5	843.2	748.4	656.1	563.6
62.5°	1795.5	1670.5	1548.6	1423.2	1300.8	1179.3	1057.7	945.5	831.5	728.0	625.6
60°	2014.4	1875.3	1731.8	1592.8	1452.5	1314.3	1179.3	1045.9	922.0	798.4	687.3
57.5°	2245.0	2081.4	1923.5	1763.8	1607.5	1452.5	1300.8	1152.5	1010.5	875.1	747.6
55°	2482.2	2298.2	2116.6	1939.6	1763.8	1592.8	1423.2	1260.6	1099.3	951.9	806.3
52.5°	2744.9	2524.0	2315.9	2116.6	1923.5	1731.8	1548.6	1365.8	1194.0	1026.6	870.7
50°	3025.6	2766.1	2524.0	2298.2	2081.4	1875.3	1670.5	1475.7	1285.9	1101.7	934.0
47.5°	3321.8	3025.6	2744.9	2482.2	2245.0	2014.4	1795.5	1582.9	1374.8	1180.6	995.2
45°	3644.8	3296.2	2975.1	2681.7	2403.4	2157.2	1918.5	1686.3	1467.5	1256.7	1054.1
42.5°	3969.2	3584.7	3219.8	2874.9	2577.3	2297.7	2036.9	1792.5	1556.8	1329.6	1114.8
40°	4325.9	3878.1	3465.5	3093.7	2748.5	2433.0	2158.8	1895.2	1642.1	1401.3	1175.6
37.5°	4673.6	4184.5	3727.9	3303.3	2919.6	2583.3	2276.1	1993.1	1725.2	1473.3	1233.5
35°	5032.5	4495.1	3978.3	3520.6	3103.7	2726.1	2387.6	2089.0	1808.4	1541.5	1288.3
32.5°	5376.3	4798.1	4249.1	3740.4	3277.8	2861.1	2503.5	2184.0	1886.8	1605.7	1339.9
30°	5716.6	5100.5	4507.6	3947.3	3449.4	3009.0	2618.7	2273.0	1960.2	1665.8	1389.1
27.5°	6040.8	5384.2	4753.8	4162.4	3627.0	3148.7	2726.1	2356.0	2028.5	1723.3	1437.7
25°	6347.1	5659.5	4997.3	4369.1	3791.4	3277.8	2825.3	2433.0	2094.9	1778.9	1482.5
22.5°	6640.0	5916.9	5221.1	4558.7	3942.0	3396.5	2924.0	2514.6	2157.2	1829.6	1523.3
20°	6906.7	6150.8	5424.1	4733.3	4090.4	3520.6	3020.8	2588.3	2213.5	1875.3	1560.1
17.5°	7148.5	6365.4	5614.7	4899.7	4230.6	3631.2	3107.0	2653.8	2263.5	1915.9	1592.8
15°	7373.3	6558.8	5783.5	5045.4	4353.2	3727.9	3182.2	2711.0	2307.1	1951.3	1621.2
12.5°	7565.9	6724.3	5927.7	5169.8	4457.9	3810.3	3246.3	2759.7	2344.2	1981.4	1645.5
10°	7725.1	6860.9	6046.7	5272.4	4544.0	3878.1	3299.1	2799.7	2374.7	2006.2	1665.3
7.5°	7850.0	6968.1	6139.9	5352.7	4611.5	3931.2	3340.3	2831.0	2398.6	2025.5	1680.9
5°	7939.9	7045.1	6206.9	5410.3	4659.8	3969.2	3369.8	2853.4	2415.6	2039.3	1692.0
2.5°	7994.0	7091.4	6247.1	5444.9	4688.9	3992.1	3387.6	2866.9	2425.9	2047.6	1698.7
0°	8012.1	7106.9	6260.6	5456.5	4698.6	3999.7	3393.5	2871.4	2429.3	2050.4	1700.9
-2.5°	7994.0	7091.4	6247.1	5444.9	4688.9	3992.1	3387.6	2866.9	2425.9	2047.6	1698.7
-5°	7939.9	7045.1	6206.9	5410.3	4659.8	3969.2	3369.8	2853.4	2415.6	2039.3	1692.0
-7.5°	7850.0	6968.1	6139.9	5352.7	4611.5	3931.2	3340.3	2831.0	2398.6	2025.5	1680.9
-10°	7725.1	6860.9	6046.7	5272.4	4544.0	3878.1	3299.1	2799.7	2374.7	2006.2	1665.3
-12.5°	7565.9	6724.3	5927.7	5169.8	4457.9	3810.3	3246.3	2759.7	2344.2	1981.4	1645.5
-15°	7373.3	6558.8	5783.5	5045.4	4353.2	3727.9	3182.2	2711.0	2307.1	1951.3	1621.2
-17.5°	7148.5	6365.4	5614.7	4899.7	4230.6	3631.2	3107.0	2653.8	2263.5	1915.9	1592.8
-20°	6906.7	6150.8	5424.1	4733.3	4090.4	3520.6	3020.8	2588.3	2213.5	1875.3	1560.1



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	6640.0	5916.9	5221.1	4558.7	3942.0	3396.5	2924.0	2514.6	2157.2	1829.6	1523.3
-25°	6347.1	5659.5	4997.3	4369.1	3791.4	3277.8	2825.3	2433.0	2094.9	1778.9	1482.5
-27.5°	6040.8	5384.2	4753.8	4162.4	3627.0	3148.7	2726.1	2356.0	2028.5	1723.3	1437.7
-30°	5716.6	5100.5	4507.6	3947.3	3449.4	3009.0	2618.7	2273.0	1960.2	1665.8	1389.1
-32.5°	5376.3	4798.1	4249.1	3740.4	3277.8	2861.1	2503.5	2184.0	1886.8	1605.7	1339.9
-35°	5032.5	4495.1	3978.3	3520.6	3103.7	2726.1	2387.6	2089.0	1808.4	1541.5	1288.3
-37.5°	4673.6	4184.5	3727.9	3303.3	2919.6	2583.3	2276.1	1993.1	1725.2	1473.3	1233.5
-40°	4325.9	3878.1	3465.5	3093.7	2748.5	2433.0	2158.8	1895.2	1642.1	1401.3	1175.6
-42.5°	3969.2	3584.7	3219.8	2874.9	2577.3	2297.7	2036.9	1792.5	1556.8	1329.6	1114.8
-45°	3644.8	3296.2	2975.1	2681.7	2403.4	2157.2	1918.5	1686.3	1467.5	1256.7	1054.1
-47.5°	3321.8	3025.6	2744.9	2482.2	2245.0	2014.4	1795.5	1582.9	1374.8	1180.6	995.2
-50°	3025.6	2766.1	2524.0	2298.2	2081.4	1875.3	1670.5	1475.7	1285.9	1101.7	934.0
-52.5°	2744.9	2524.0	2315.9	2116.6	1923.5	1731.8	1548.6	1365.8	1194.0	1026.6	870.7
-55°	2482.2	2298.2	2116.6	1939.6	1763.8	1592.8	1423.2	1260.6	1099.3	951.9	806.3
-57.5°	2245.0	2081.4	1923.5	1763.8	1607.5	1452.5	1300.8	1152.5	1010.5	875.1	747.6
-60°	2014.4	1875.3	1731.8	1592.8	1452.5	1314.3	1179.3	1045.9	922.0	798.4	687.3
-62.5°	1795.5	1670.5	1548.6	1423.2	1300.8	1179.3	1057.7	945.5	831.5	728.0	625.6
-65°	1582.9	1475.7	1365.8	1260.6	1152.5	1045.9	945.5	843.2	748.4	656.1	563.6
-67.5°	1374.8	1285.9	1194.0	1099.3	1010.5	922.0	831.5	748.4	666.3	582.9	502.9
-70°	1180.6	1101.7	1026.6	951.9	875.1	798.4	728.0	656.1	582.9	512.5	441.2
-72.5°	995.2	934.0	870.7	806.3	747.6	687.3	625.6	563.6	502.9	441.2	378.6
-75°	820.1	773.4	726.0	677.1	626.7	575.3	525.3	474.1	422.0	369.0	321.5
-77.5°	665.1	627.1	587.6	548.7	509.0	468.3	426.5	383.8	343.2	304.9	266.0
-80°	514.2	485.4	455.6	424.8	393.1	360.7	331.7	302.1	271.9	241.2	210.0
-82.5°	367.3	347.9	328.6	308.6	287.9	266.7	245.0	222.8	200.1	177.0	155.3
-85°	239.0	226.5	213.6	200.3	186.6	172.4	159.2	145.7	132.0	117.9	103.7
-87.5°	116.6	110.9	105.1	99.0	92.7	86.3	79.7	72.9	66.0	59.0	51.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	44.7	37.3	30.0	22.5	15.0	7.5	0.0
85°	89.2	74.6	59.9	45.0	30.0	15.0	0.0
82.5°	133.7	111.8	89.7	67.4	45.0	22.5	0.0
80°	178.4	148.7	119.3	89.7	59.9	30.0	0.0
77.5°	226.5	186.6	148.7	111.8	74.6	37.3	0.0
75°	274.2	226.5	178.4	133.7	89.2	44.7	0.0
72.5°	321.5	266.0	210.0	155.3	103.7	51.9	0.0
70°	369.0	304.9	241.2	177.0	117.9	59.0	0.0
67.5°	422.0	343.2	271.9	200.1	132.0	66.0	0.0
65°	474.1	383.8	302.1	222.8	145.7	72.9	0.0
62.5°	525.3	426.5	331.7	245.0	159.2	79.7	0.0
60°	575.3	468.3	360.7	266.7	172.4	86.3	0.0
57.5°	626.7	509.0	393.1	287.9	186.6	92.7	0.0
55°	677.1	548.7	424.8	308.6	200.3	99.0	0.0
52.5°	726.0	587.6	455.6	328.6	213.6	105.1	0.0
50°	773.4	627.1	485.4	347.9	226.5	110.9	0.0
47.5°	820.1	665.1	514.2	367.3	239.0	116.6	0.0
45°	870.4	701.8	541.9	388.0	250.9	122.0	0.0
42.5°	918.8	736.8	568.4	407.8	262.4	127.2	0.0
40°	964.9	770.3	594.4	426.8	273.3	132.2	0.0
37.5°	1008.8	802.2	619.8	444.7	283.6	136.9	0.0
35°	1050.3	835.1	643.8	461.7	293.4	141.4	0.0
32.5°	1090.8	867.5	666.4	477.7	302.6	145.6	0.0
30°	1131.9	897.8	687.5	492.6	311.2	149.5	0.0
27.5°	1170.1	926.0	707.0	506.4	319.2	153.1	0.0
25°	1205.3	951.8	725.0	519.2	326.5	156.4	0.0
22.5°	1237.4	975.4	741.4	530.8	333.2	159.5	0.0
20°	1266.3	996.7	756.2	541.2	339.2	162.2	0.0
17.5°	1292.0	1015.5	769.3	550.4	344.5	164.6	0.0
15°	1314.3	1031.9	780.7	558.5	349.2	166.7	0.0
12.5°	1333.3	1045.9	790.4	565.3	353.1	168.5	0.0
10°	1348.9	1057.3	798.4	571.0	356.3	170.0	0.0
7.5°	1361.1	1066.3	804.6	575.3	358.8	171.1	0.0
5°	1369.8	1072.7	809.0	578.5	360.7	171.9	0.0
2.5°	1375.1	1076.5	811.7	580.4	361.7	172.4	0.0
0°	1376.8	1077.8	812.6	581.0	362.1	172.6	0.0
-2.5°	1375.1	1076.5	811.7	580.4	361.7	172.4	0.0
-5°	1369.8	1072.7	809.0	578.5	360.7	171.9	0.0
-7.5°	1361.1	1066.3	804.6	575.3	358.8	171.1	0.0
-10°	1348.9	1057.3	798.4	571.0	356.3	170.0	0.0
-12.5°	1333.3	1045.9	790.4	565.3	353.1	168.5	0.0
-15°	1314.3	1031.9	780.7	558.5	349.2	166.7	0.0
-17.5°	1292.0	1015.5	769.3	550.4	344.5	164.6	0.0
-20°	1266.3	996.7	756.2	541.2	339.2	162.2	0.0

Classified

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

Scaled Data Report



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CATALOG NUMBER: EPH-VN-08-E-PRO-3000K-77

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	1237.4	975.4	741.4	530.8	333.2	159.5	0.0
-25°	1205.3	951.8	725.0	519.2	326.5	156.4	0.0
-27.5°	1170.1	926.0	707.0	506.4	319.2	153.1	0.0
-30°	1131.9	897.8	687.5	492.6	311.2	149.5	0.0
-32.5°	1090.8	867.5	666.4	477.7	302.6	145.6	0.0
-35°	1050.3	835.1	643.8	461.7	293.4	141.4	0.0
-37.5°	1008.8	802.2	619.8	444.7	283.6	136.9	0.0
-40°	964.9	770.3	594.4	426.8	273.3	132.2	0.0
-42.5°	918.8	736.8	568.4	407.8	262.4	127.2	0.0
-45°	870.4	701.8	541.9	388.0	250.9	122.0	0.0
-47.5°	820.1	665.1	514.2	367.3	239.0	116.6	0.0
-50°	773.4	627.1	485.4	347.9	226.5	110.9	0.0
-52.5°	726.0	587.6	455.6	328.6	213.6	105.1	0.0
-55°	677.1	548.7	424.8	308.6	200.3	99.0	0.0
-57.5°	626.7	509.0	393.1	287.9	186.6	92.7	0.0
-60°	575.3	468.3	360.7	266.7	172.4	86.3	0.0
-62.5°	525.3	426.5	331.7	245.0	159.2	79.7	0.0
-65°	474.1	383.8	302.1	222.8	145.7	72.9	0.0
-67.5°	422.0	343.2	271.9	200.1	132.0	66.0	0.0
-70°	369.0	304.9	241.2	177.0	117.9	59.0	0.0
-72.5°	321.5	266.0	210.0	155.3	103.7	51.9	0.0
-75°	274.2	226.5	178.4	133.7	89.2	44.7	0.0
-77.5°	226.5	186.6	148.7	111.8	74.6	37.3	0.0
-80°	178.4	148.7	119.3	89.7	59.9	30.0	0.0
-82.5°	133.7	111.8	89.7	67.4	45.0	22.5	0.0
-85°	89.2	74.6	59.9	45.0	30.0	15.0	0.0
-87.5°	44.7	37.3	30.0	22.5	15.0	7.5	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)