

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: P624754 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-VN-04-E-PRO-4000K-77**

Issue Date: 11/8/2022



Test Information

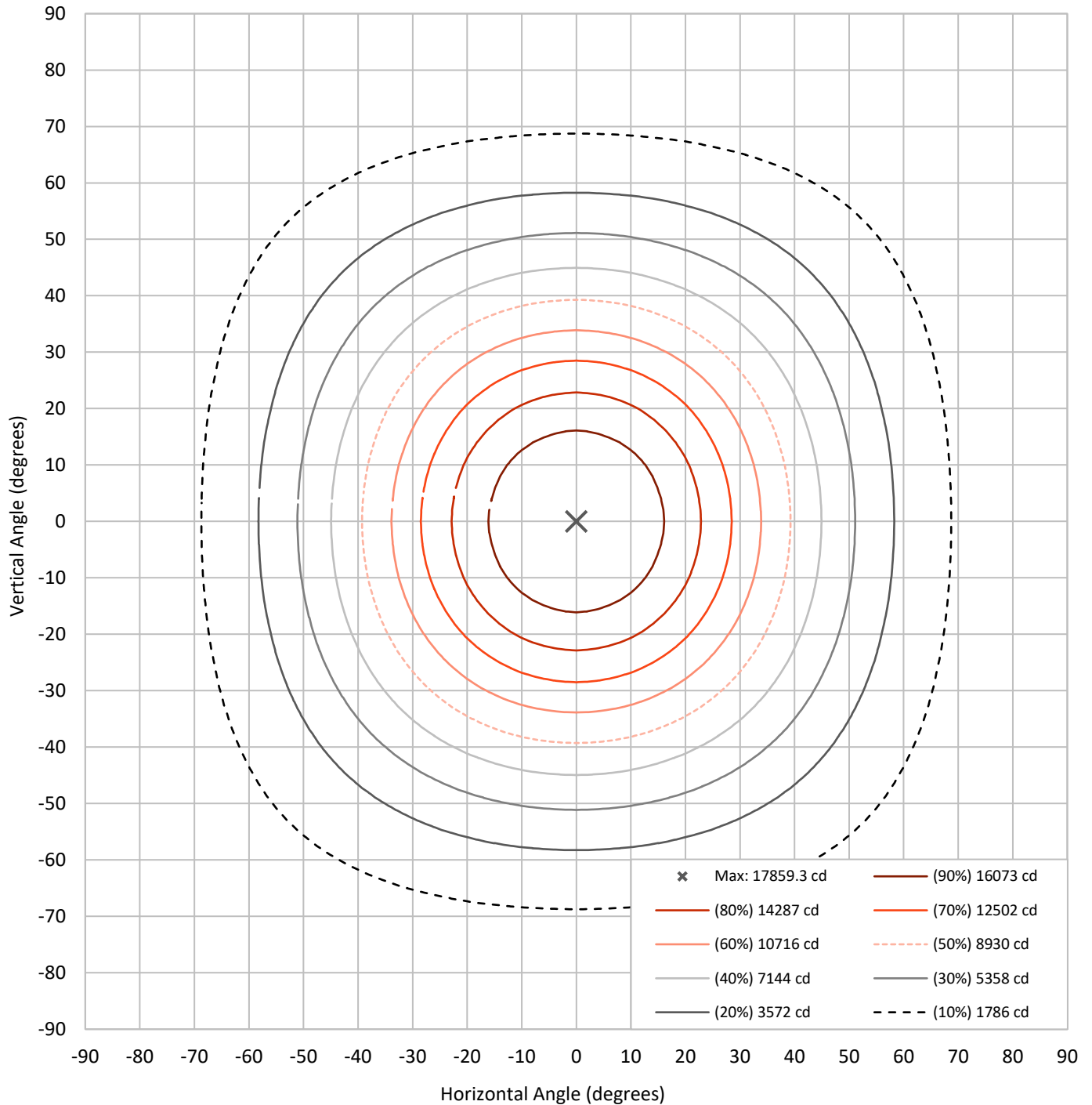
Test Method: LM-79-08
Report Number: P624754 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-765-15)
Test Lab: INNOVATION CENTER
Issue Date: 11/8/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-04-E-PRO-4000K-77
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:	32149.9 lumens	Max Intensity:	17859.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	128.9 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:	18548.9 lumens	Field Lumens:	30372.3 lumens
Beam Efficiency:	57.7%	Field Efficiency:	94.5%
Input Watts (W):	249.5		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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Iso-Candela Plot





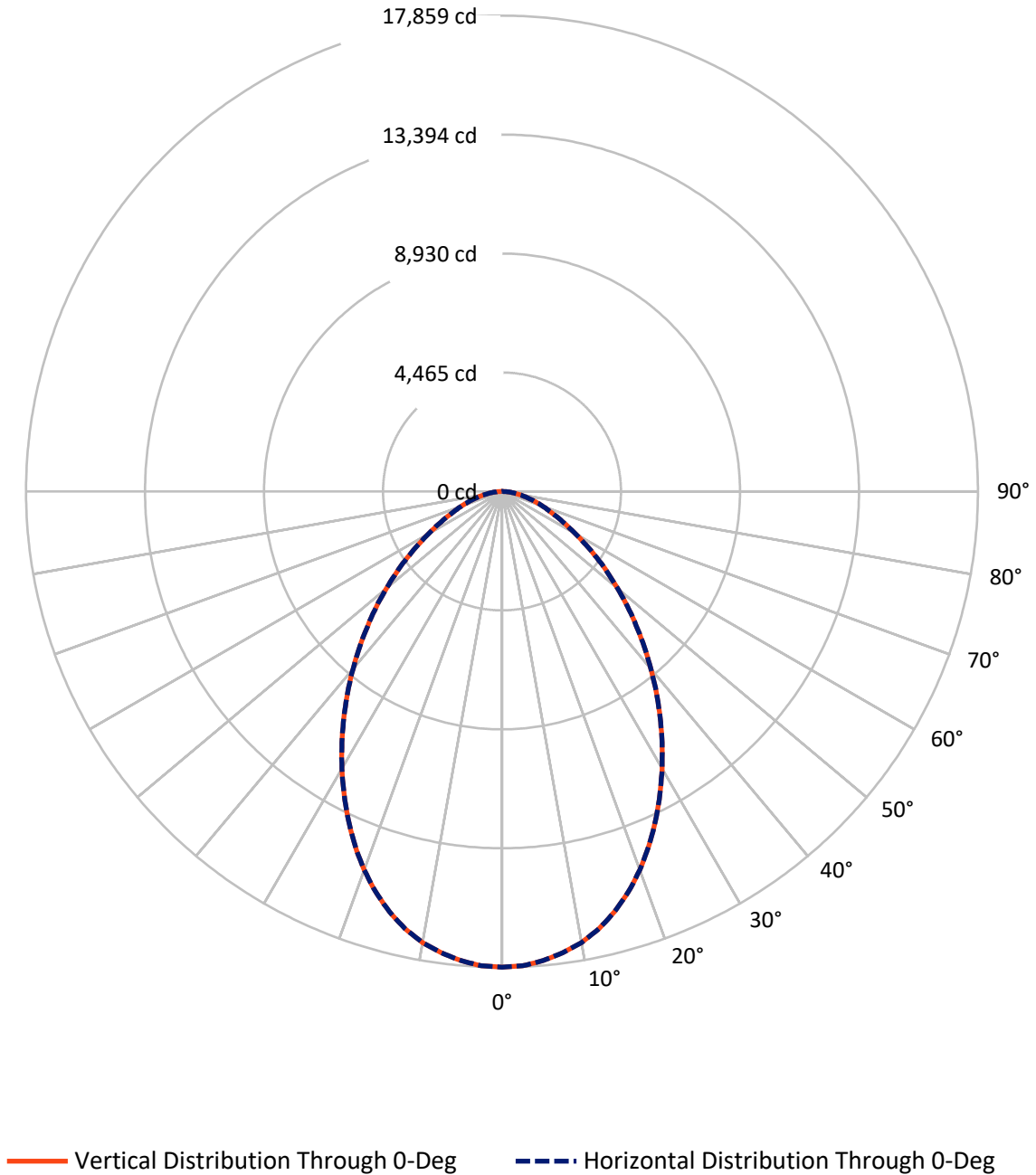
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Lumen Table

90																			
80	2.7	18.8	46.8	74.0	85.2	74.0	46.8	18.8	2.7										
70																			
60	8.5	8.8	17.7	29.1	41.8	54.2	64.4	70.1	70.1	64.4	54.2	41.8	29.1	17.7	8.8				8.5
50																			
40	14.3	13.1	27.2	46.5	70.7	96.6	118.6	131.0	131.0	118.6	96.6	70.7	46.5	27.2	13.1				14.3
30																			
20	18.7	17.6	37.9	69.4	111.2	155.3	192.5	213.8	213.8	192.5	155.3	111.2	69.4	37.9	17.6				18.7
10																			
0	20.3	21.9	49.9	96.3	156.7	221.3	276.9	309.2	309.2	276.9	221.3	156.7	96.3	49.9	21.9				20.3
-10																			
-20	18.7	25.7	61.7	121.7	200.4	286.5	361.8	406.3	406.3	361.8	286.5	200.4	121.7	61.7	25.7				18.7
-30																			
-40	14.3	28.7	71.2	141.6	235.4	339.8	432.2	485.7	485.7	432.2	339.8	235.4	141.6	71.2	28.7				14.3
-50																			
-60	8.5	30.3	76.3	152.6	255.0	370.2	471.2	527.0	527.0	471.2	370.2	255.0	152.6	76.3	30.3				8.5
-70																			
-80	2.7	8.8	17.7	29.1	41.8	54.2	64.4	70.1	70.1	64.4	54.2	41.8	29.1	17.7	8.8				2.7
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

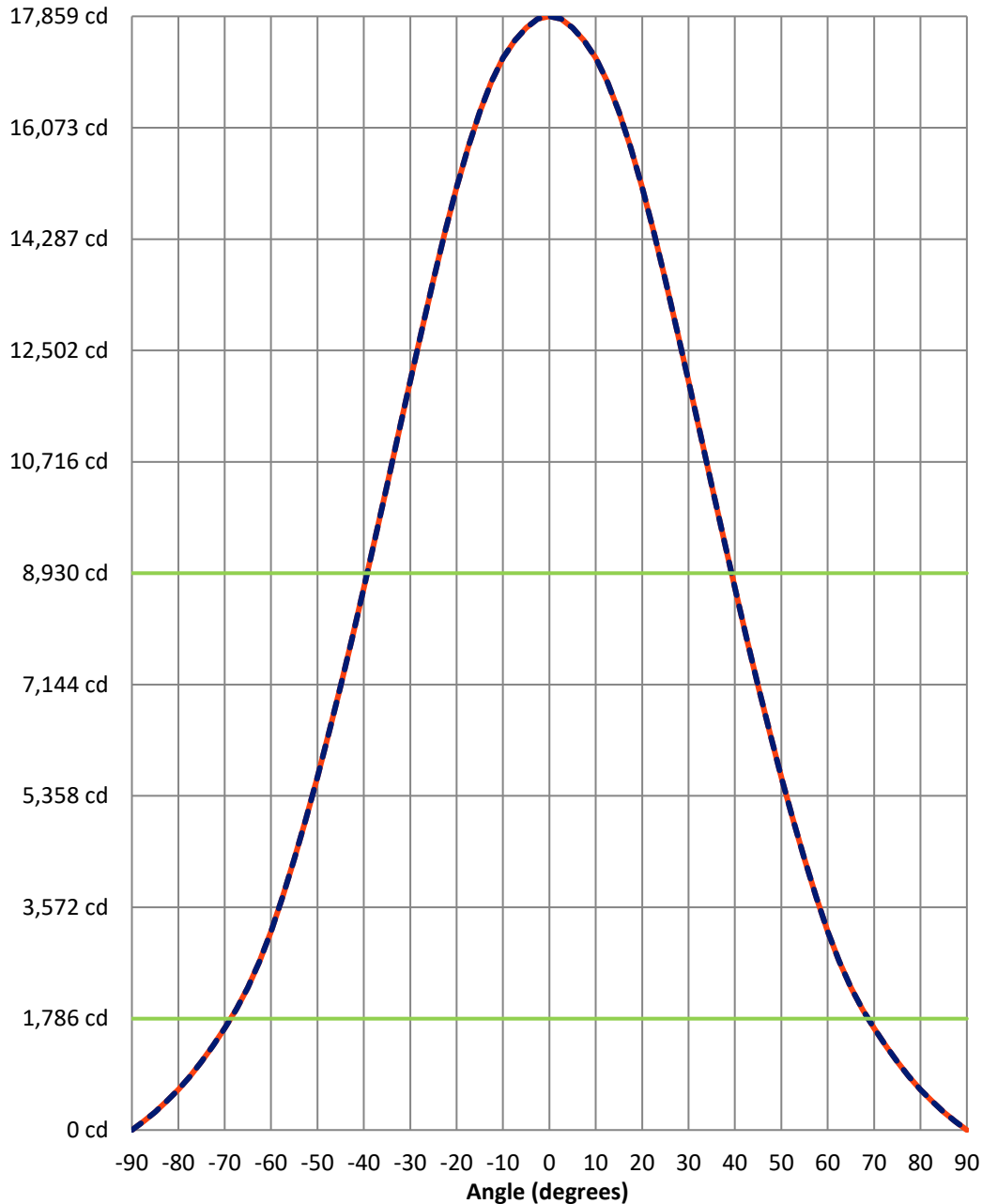
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 78.6°
 V Angle: 78.6°
 Lumens: 18548.9
 Efficiency: 57.7%

Field:
 H Angle: 137.5°
 V Angle: 137.5°
 Lumens: 30372.3
 Efficiency: 94.5%

Spill:
 Lumens: 1777.6
 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	6.0	12.0	17.9	23.9	29.8	35.6	41.3	47.0	52.6	58.1
85°	0.0	12.0	23.9	35.8	47.7	59.4	71.1	82.6	94.0	105.1	116.1
82.5°	0.0	17.9	35.8	53.7	71.4	89.0	106.5	123.7	141.0	159.4	177.4
80°	0.0	23.9	47.7	71.4	95.0	118.5	142.1	167.2	192.1	216.5	240.6
77.5°	0.0	29.8	59.4	89.0	118.5	148.7	180.4	211.8	242.8	273.3	305.6
75°	0.0	35.6	71.1	106.5	142.1	180.4	218.4	256.0	293.8	336.0	377.6
72.5°	0.0	41.3	82.6	123.7	167.2	211.8	256.0	301.4	351.3	400.5	448.8
70°	0.0	47.0	94.0	141.0	192.1	242.8	293.8	351.3	408.1	464.2	522.5
67.5°	0.0	52.6	105.1	159.4	216.5	273.3	336.0	400.5	464.2	530.6	596.0
65°	0.0	58.1	116.1	177.4	240.6	305.6	377.6	448.8	522.5	596.0	671.5
62.5°	0.0	63.5	126.9	195.1	264.1	339.6	418.3	498.2	579.7	662.1	753.0
60°	0.0	68.7	137.4	212.4	287.1	372.9	458.2	547.3	635.8	734.2	832.9
57.5°	0.0	73.9	148.6	229.3	313.0	405.4	499.1	595.3	696.9	804.7	917.8
55°	0.0	78.8	159.5	245.7	338.3	437.0	539.2	642.1	758.1	875.4	1003.8
52.5°	0.0	83.7	170.2	261.6	362.8	468.0	578.2	693.4	817.5	950.8	1087.6
50°	0.0	88.4	180.4	277.0	386.6	499.4	615.9	743.8	877.3	1023.9	1175.0
47.5°	0.0	92.9	190.3	292.4	409.5	529.7	653.0	792.5	940.2	1094.7	1260.4
45°	0.0	97.2	199.8	308.9	431.5	558.8	693.2	839.4	1000.7	1168.6	1342.8
42.5°	0.0	101.4	208.9	324.7	452.6	586.8	731.6	887.7	1058.8	1239.6	1427.3
40°	0.0	105.3	217.6	339.8	473.3	613.5	768.4	936.2	1115.8	1307.6	1509.1
37.5°	0.0	109.1	225.9	354.1	493.6	638.8	803.3	982.2	1173.1	1373.8	1587.0
35°	0.0	112.6	233.7	367.7	512.7	665.0	836.4	1025.9	1227.4	1440.0	1663.4
32.5°	0.0	116.0	241.0	380.4	530.7	690.9	868.6	1066.9	1278.6	1502.4	1739.1
30°	0.0	119.1	247.8	392.3	547.5	715.0	901.4	1106.1	1326.5	1560.9	1810.0
27.5°	0.0	122.0	254.1	403.3	563.0	737.4	931.8	1144.8	1372.3	1615.2	1876.0
25°	0.0	124.6	260.0	413.4	577.4	758.0	959.8	1180.4	1416.5	1668.1	1937.4
22.5°	0.0	127.0	265.3	422.7	590.4	776.8	985.3	1213.0	1456.8	1717.8	2002.3
20°	0.0	129.2	270.1	431.0	602.2	793.7	1008.3	1242.3	1493.2	1762.5	2061.0
17.5°	0.0	131.1	274.3	438.4	612.6	808.7	1028.8	1268.3	1525.6	1802.4	2113.2
15°	0.0	132.8	278.0	444.8	621.7	821.8	1046.6	1291.0	1553.8	1837.1	2158.7
12.5°	0.0	134.2	281.1	450.2	629.4	832.9	1061.7	1310.2	1577.8	1866.6	2197.5
10°	0.0	135.4	283.7	454.7	635.8	842.0	1074.1	1326.1	1597.5	1890.9	2229.4
7.5°	0.0	136.3	285.7	458.2	640.7	849.1	1083.8	1338.5	1612.9	1909.9	2254.3
5°	0.0	137.0	287.1	460.7	644.3	854.2	1090.7	1347.3	1623.9	1923.5	2272.2
2.5°	0.0	137.4	288.0	462.2	646.4	857.3	1094.9	1352.6	1630.5	1931.7	2282.9
0°	0.0	137.5	288.3	462.7	647.1	858.3	1096.3	1354.4	1632.7	1934.4	2286.5
-2.5°	0.0	137.4	288.0	462.2	646.4	857.3	1094.9	1352.6	1630.5	1931.7	2282.9
-5°	0.0	137.0	287.1	460.7	644.3	854.2	1090.7	1347.3	1623.9	1923.5	2272.2
-7.5°	0.0	136.3	285.7	458.2	640.7	849.1	1083.8	1338.5	1612.9	1909.9	2254.3
-10°	0.0	135.4	283.7	454.7	635.8	842.0	1074.1	1326.1	1597.5	1890.9	2229.4
-12.5°	0.0	134.2	281.1	450.2	629.4	832.9	1061.7	1310.2	1577.8	1866.6	2197.5
-15°	0.0	132.8	278.0	444.8	621.7	821.8	1046.6	1291.0	1553.8	1837.1	2158.7
-17.5°	0.0	131.1	274.3	438.4	612.6	808.7	1028.8	1268.3	1525.6	1802.4	2113.2
-20°	0.0	129.2	270.1	431.0	602.2	793.7	1008.3	1242.3	1493.2	1762.5	2061.0

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Scaled Data Report



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CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-77

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	127.0	265.3	422.7	590.4	776.8	985.3	1213.0	1456.8	1717.8	2002.3
-25°	0.0	124.6	260.0	413.4	577.4	758.0	959.8	1180.4	1416.5	1668.1	1937.4
-27.5°	0.0	122.0	254.1	403.3	563.0	737.4	931.8	1144.8	1372.3	1615.2	1876.0
-30°	0.0	119.1	247.8	392.3	547.5	715.0	901.4	1106.1	1326.5	1560.9	1810.0
-32.5°	0.0	116.0	241.0	380.4	530.7	690.9	868.6	1066.9	1278.6	1502.4	1739.1
-35°	0.0	112.6	233.7	367.7	512.7	665.0	836.4	1025.9	1227.4	1440.0	1663.4
-37.5°	0.0	109.1	225.9	354.1	493.6	638.8	803.3	982.2	1173.1	1373.8	1587.0
-40°	0.0	105.3	217.6	339.8	473.3	613.5	768.4	936.2	1115.8	1307.6	1509.1
-42.5°	0.0	101.4	208.9	324.7	452.6	586.8	731.6	887.7	1058.8	1239.6	1427.3
-45°	0.0	97.2	199.8	308.9	431.5	558.8	693.2	839.4	1000.7	1168.6	1342.8
-47.5°	0.0	92.9	190.3	292.4	409.5	529.7	653.0	792.5	940.2	1094.7	1260.4
-50°	0.0	88.4	180.4	277.0	386.6	499.4	615.9	743.8	877.3	1023.9	1175.0
-52.5°	0.0	83.7	170.2	261.6	362.8	468.0	578.2	693.4	817.5	950.8	1087.6
-55°	0.0	78.8	159.5	245.7	338.3	437.0	539.2	642.1	758.1	875.4	1003.8
-57.5°	0.0	73.9	148.6	229.3	313.0	405.4	499.1	595.3	696.9	804.7	917.8
-60°	0.0	68.7	137.4	212.4	287.1	372.9	458.2	547.3	635.8	734.2	832.9
-62.5°	0.0	63.5	126.9	195.1	264.1	339.6	418.3	498.2	579.7	662.1	753.0
-65°	0.0	58.1	116.1	177.4	240.6	305.6	377.6	448.8	522.5	596.0	671.5
-67.5°	0.0	52.6	105.1	159.4	216.5	273.3	336.0	400.5	464.2	530.6	596.0
-70°	0.0	47.0	94.0	141.0	192.1	242.8	293.8	351.3	408.1	464.2	522.5
-72.5°	0.0	41.3	82.6	123.7	167.2	211.8	256.0	301.4	351.3	400.5	448.8
-75°	0.0	35.6	71.1	106.5	142.1	180.4	218.4	256.0	293.8	336.0	377.6
-77.5°	0.0	29.8	59.4	89.0	118.5	148.7	180.4	211.8	242.8	273.3	305.6
-80°	0.0	23.9	47.7	71.4	95.0	118.5	142.1	167.2	192.1	216.5	240.6
-82.5°	0.0	17.9	35.8	53.7	71.4	89.0	106.5	123.7	141.0	159.4	177.4
-85°	0.0	12.0	23.9	35.8	47.7	59.4	71.1	82.6	94.0	105.1	116.1
-87.5°	0.0	6.0	12.0	17.9	23.9	29.8	35.6	41.3	47.0	52.6	58.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-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°	63.5	68.7	73.9	78.8	83.7	88.4	92.9	97.2	101.4	105.3	109.1
85°	126.9	137.4	148.6	159.5	170.2	180.4	190.3	199.8	208.9	217.6	225.9
82.5°	195.1	212.4	229.3	245.7	261.6	277.0	292.4	308.9	324.7	339.8	354.1
80°	264.1	287.1	313.0	338.3	362.8	386.6	409.5	431.5	452.6	473.3	493.6
77.5°	339.6	372.9	405.4	437.0	468.0	499.4	529.7	558.8	586.8	613.5	638.8
75°	418.3	458.2	499.1	539.2	578.2	615.9	653.0	693.2	731.6	768.4	803.3
72.5°	498.2	547.3	595.3	642.1	693.4	743.8	792.5	839.4	887.7	936.2	982.2
70°	579.7	635.8	696.9	758.1	817.5	877.3	940.2	1000.7	1058.8	1115.8	1173.1
67.5°	662.1	734.2	804.7	875.4	950.8	1023.9	1094.7	1168.6	1239.6	1307.6	1373.8
65°	753.0	832.9	917.8	1003.8	1087.6	1175.0	1260.4	1342.8	1427.3	1509.1	1587.0
62.5°	842.3	939.1	1035.8	1133.3	1233.2	1330.2	1429.8	1527.7	1622.0	1719.0	1812.4
60°	939.1	1046.6	1156.6	1268.3	1379.0	1493.2	1604.0	1717.8	1829.6	1937.4	2057.0
57.5°	1035.8	1156.6	1280.0	1404.5	1531.6	1657.4	1787.7	1913.8	2052.3	2188.6	2324.9
55°	1133.3	1268.3	1404.5	1544.5	1685.4	1830.0	1976.5	2135.4	2289.3	2463.5	2630.4
52.5°	1233.2	1379.0	1531.6	1685.4	1844.1	2009.8	2185.8	2369.1	2563.9	2759.5	2968.5
50°	1330.2	1493.2	1657.4	1830.0	2009.8	2202.6	2409.3	2624.7	2854.5	3088.2	3332.1
47.5°	1429.8	1604.0	1787.7	1976.5	2185.8	2409.3	2645.1	2902.3	3160.7	3444.7	3721.6
45°	1527.7	1717.8	1913.8	2135.4	2369.1	2624.7	2902.3	3185.0	3501.5	3813.4	4133.5
42.5°	1622.0	1829.6	2052.3	2289.3	2563.9	2854.5	3160.7	3501.5	3844.7	4197.1	4549.2
40°	1719.0	1937.4	2188.6	2463.5	2759.5	3088.2	3444.7	3813.4	4197.1	4583.7	4966.5
37.5°	1812.4	2057.0	2324.9	2630.4	2968.5	3332.1	3721.6	4133.5	4549.2	4966.5	5391.4
35°	1901.2	2170.8	2471.4	2803.5	3168.0	3579.5	4007.4	4446.5	4896.4	5353.6	5812.7
32.5°	1993.5	2278.3	2610.1	2978.5	3383.6	3820.7	4281.1	4757.4	5241.0	5730.2	6235.3
30°	2085.2	2396.1	2746.7	3143.3	3589.4	4061.6	4552.1	5055.7	5573.0	6109.2	6646.2
27.5°	2170.8	2507.3	2888.2	3314.5	3785.5	4287.4	4810.3	5347.8	5901.9	6470.0	7039.6
25°	2249.7	2610.1	3019.1	3479.1	3979.4	4506.6	5054.2	5620.3	6215.2	6815.4	7421.3
22.5°	2328.4	2704.6	3139.1	3630.1	4157.5	4711.6	5287.4	5886.8	6508.6	7136.6	7779.5
20°	2405.5	2803.5	3257.2	3769.2	4319.2	4897.8	5499.8	6132.4	6781.1	7442.2	8117.3
17.5°	2474.1	2891.5	3368.9	3901.7	4471.0	5068.7	5692.3	6352.9	7026.2	7718.0	8426.8
15°	2534.0	2968.5	3466.5	4017.7	4605.3	5222.7	5871.3	6551.7	7247.5	7964.6	8701.4
12.5°	2585.0	3034.2	3549.8	4116.7	4720.2	5354.5	6024.7	6723.0	7441.1	8182.9	8943.3
10°	2627.0	3088.2	3618.4	4198.4	4815.0	5463.4	6151.5	6864.9	7601.6	8364.3	9144.8
7.5°	2659.8	3130.4	3672.1	4262.3	4889.2	5548.7	6251.0	6976.2	7727.8	8507.2	9303.8
5°	2683.3	3160.7	3710.6	4308.2	4942.5	5610.0	6322.5	7056.4	7818.8	8610.2	9418.6
2.5°	2697.5	3178.9	3733.8	4335.8	4974.6	5646.9	6365.6	7104.7	7873.7	8672.5	9488.1
0°	2702.2	3185.0	3741.5	4345.0	4985.3	5659.2	6380.0	7120.9	7892.0	8693.3	9511.3
-2.5°	2697.5	3178.9	3733.8	4335.8	4974.6	5646.9	6365.6	7104.7	7873.7	8672.5	9488.1
-5°	2683.3	3160.7	3710.6	4308.2	4942.5	5610.0	6322.5	7056.4	7818.8	8610.2	9418.6
-7.5°	2659.8	3130.4	3672.1	4262.3	4889.2	5548.7	6251.0	6976.2	7727.8	8507.2	9303.8
-10°	2627.0	3088.2	3618.4	4198.4	4815.0	5463.4	6151.5	6864.9	7601.6	8364.3	9144.8
-12.5°	2585.0	3034.2	3549.8	4116.7	4720.2	5354.5	6024.7	6723.0	7441.1	8182.9	8943.3
-15°	2534.0	2968.5	3466.5	4017.7	4605.3	5222.7	5871.3	6551.7	7247.5	7964.6	8701.4
-17.5°	2474.1	2891.5	3368.9	3901.7	4471.0	5068.7	5692.3	6352.9	7026.2	7718.0	8426.8
-20°	2405.5	2803.5	3257.2	3769.2	4319.2	4897.8	5499.8	6132.4	6781.1	7442.2	8117.3

Classified

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

Scaled Data Report



REPORT NUMBER: P624754 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-77

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	2328.4	2704.6	3139.1	3630.1	4157.5	4711.6	5287.4	5886.8	6508.6	7136.6	7779.5
-25°	2249.7	2610.1	3019.1	3479.1	3979.4	4506.6	5054.2	5620.3	6215.2	6815.4	7421.3
-27.5°	2170.8	2507.3	2888.2	3314.5	3785.5	4287.4	4810.3	5347.8	5901.9	6470.0	7039.6
-30°	2085.2	2396.1	2746.7	3143.3	3589.4	4061.6	4552.1	5055.7	5573.0	6109.2	6646.2
-32.5°	1993.5	2278.3	2610.1	2978.5	3383.6	3820.7	4281.1	4757.4	5241.0	5730.2	6235.3
-35°	1901.2	2170.8	2471.4	2803.5	3168.0	3579.5	4007.4	4446.5	4896.4	5353.6	5812.7
-37.5°	1812.4	2057.0	2324.9	2630.4	2968.5	3332.1	3721.6	4133.5	4549.2	4966.5	5391.4
-40°	1719.0	1937.4	2188.6	2463.5	2759.5	3088.2	3444.7	3813.4	4197.1	4583.7	4966.5
-42.5°	1622.0	1829.6	2052.3	2289.3	2563.9	2854.5	3160.7	3501.5	3844.7	4197.1	4549.2
-45°	1527.7	1717.8	1913.8	2135.4	2369.1	2624.7	2902.3	3185.0	3501.5	3813.4	4133.5
-47.5°	1429.8	1604.0	1787.7	1976.5	2185.8	2409.3	2645.1	2902.3	3160.7	3444.7	3721.6
-50°	1330.2	1493.2	1657.4	1830.0	2009.8	2202.6	2409.3	2624.7	2854.5	3088.2	3332.1
-52.5°	1233.2	1379.0	1531.6	1685.4	1844.1	2009.8	2185.8	2369.1	2563.9	2759.5	2968.5
-55°	1133.3	1268.3	1404.5	1544.5	1685.4	1830.0	1976.5	2135.4	2289.3	2463.5	2630.4
-57.5°	1035.8	1156.6	1280.0	1404.5	1531.6	1657.4	1787.7	1913.8	2052.3	2188.6	2324.9
-60°	939.1	1046.6	1156.6	1268.3	1379.0	1493.2	1604.0	1717.8	1829.6	1937.4	2057.0
-62.5°	842.3	939.1	1035.8	1133.3	1233.2	1330.2	1429.8	1527.7	1622.0	1719.0	1812.4
-65°	753.0	832.9	917.8	1003.8	1087.6	1175.0	1260.4	1342.8	1427.3	1509.1	1587.0
-67.5°	662.1	734.2	804.7	875.4	950.8	1023.9	1094.7	1168.6	1239.6	1307.6	1373.8
-70°	579.7	635.8	696.9	758.1	817.5	877.3	940.2	1000.7	1058.8	1115.8	1173.1
-72.5°	498.2	547.3	595.3	642.1	693.4	743.8	792.5	839.4	887.7	936.2	982.2
-75°	418.3	458.2	499.1	539.2	578.2	615.9	653.0	693.2	731.6	768.4	803.3
-77.5°	339.6	372.9	405.4	437.0	468.0	499.4	529.7	558.8	586.8	613.5	638.8
-80°	264.1	287.1	313.0	338.3	362.8	386.6	409.5	431.5	452.6	473.3	493.6
-82.5°	195.1	212.4	229.3	245.7	261.6	277.0	292.4	308.9	324.7	339.8	354.1
-85°	126.9	137.4	148.6	159.5	170.2	180.4	190.3	199.8	208.9	217.6	225.9
-87.5°	63.5	68.7	73.9	78.8	83.7	88.4	92.9	97.2	101.4	105.3	109.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P624754 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-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°	112.6	116.0	119.1	122.0	124.6	127.0	129.2	131.1	132.8	134.2	135.4
85°	233.7	241.0	247.8	254.1	260.0	265.3	270.1	274.3	278.0	281.1	283.7
82.5°	367.7	380.4	392.3	403.3	413.4	422.7	431.0	438.4	444.8	450.2	454.7
80°	512.7	530.7	547.5	563.0	577.4	590.4	602.2	612.6	621.7	629.4	635.8
77.5°	665.0	690.9	715.0	737.4	758.0	776.8	793.7	808.7	821.8	832.9	842.0
75°	836.4	868.6	901.4	931.8	959.8	985.3	1008.3	1028.8	1046.6	1061.7	1074.1
72.5°	1025.9	1066.9	1106.1	1144.8	1180.4	1213.0	1242.3	1268.3	1291.0	1310.2	1326.1
70°	1227.4	1278.6	1326.5	1372.3	1416.5	1456.8	1493.2	1525.6	1553.8	1577.8	1597.5
67.5°	1440.0	1502.4	1560.9	1615.2	1668.1	1717.8	1762.5	1802.4	1837.1	1866.6	1890.9
65°	1663.4	1739.1	1810.0	1876.0	1937.4	2002.3	2061.0	2113.2	2158.7	2197.5	2229.4
62.5°	1901.2	1993.5	2085.2	2170.8	2249.7	2328.4	2405.5	2474.1	2534.0	2585.0	2627.0
60°	2170.8	2278.3	2396.1	2507.3	2610.1	2704.6	2803.5	2891.5	2968.5	3034.2	3088.2
57.5°	2471.4	2610.1	2746.7	2888.2	3019.1	3139.1	3257.2	3368.9	3466.5	3549.8	3618.4
55°	2803.5	2978.5	3143.3	3314.5	3479.1	3630.1	3769.2	3901.7	4017.7	4116.7	4198.4
52.5°	3168.0	3383.6	3589.4	3785.5	3979.4	4157.5	4319.2	4471.0	4605.3	4720.2	4815.0
50°	3579.5	3820.7	4061.6	4287.4	4506.6	4711.6	4897.8	5068.7	5222.7	5354.5	5463.4
47.5°	4007.4	4281.1	4552.1	4810.3	5054.2	5287.4	5499.8	5692.3	5871.3	6024.7	6151.5
45°	4446.5	4757.4	5055.7	5347.8	5620.3	5886.8	6132.4	6352.9	6551.7	6723.0	6864.9
42.5°	4896.4	5241.0	5573.0	5901.9	6215.2	6508.6	6781.1	7026.2	7247.5	7441.1	7601.6
40°	5353.6	5730.2	6109.2	6470.0	6815.4	7136.6	7442.2	7718.0	7964.6	8182.9	8364.3
37.5°	5812.7	6235.3	6646.2	7039.6	7421.3	7779.5	8117.3	8426.8	8701.4	8943.3	9144.8
35°	6277.7	6735.2	7178.5	7615.0	8031.9	8431.3	8801.8	9142.9	9446.4	9710.8	9932.0
32.5°	6735.2	7226.2	7713.0	8188.7	8645.6	9081.6	9485.9	9857.1	10188.6	10479.6	10725.9
30°	7178.5	7713.0	8241.5	8755.5	9252.8	9722.4	10160.7	10566.3	10933.2	11252.5	11518.5
27.5°	7615.0	8188.7	8755.5	9310.5	9842.7	10347.4	10828.1	11268.9	11662.4	12007.5	12294.3
25°	8031.9	8645.6	9252.8	9842.7	10411.6	10961.5	11474.1	11945.8	12367.4	12738.6	13050.4
22.5°	8431.3	9081.6	9722.4	10347.4	10961.5	11543.5	12089.4	12590.7	13044.7	13444.8	13780.8
20°	8801.8	9485.9	10160.7	10828.1	11474.1	12089.4	12666.4	13201.3	13688.9	14110.1	14468.8
17.5°	9142.9	9857.1	10566.3	11268.9	11945.8	12590.7	13201.3	13769.4	14280.9	14719.3	15094.6
15°	9446.4	10188.6	10933.2	11662.4	12367.4	13044.7	13688.9	14280.9	14805.3	15262.7	15641.1
12.5°	9710.8	10479.6	11252.5	12007.5	12738.6	13444.8	14110.1	14719.3	15262.7	15733.0	16110.0
10°	9932.0	10725.9	11518.5	12294.3	13050.4	13780.8	14468.8	15094.6	15641.1	16110.0	16499.7
7.5°	10107.0	10921.2	11730.2	12523.6	13299.7	14046.3	14743.8	15376.1	15934.6	16414.7	16813.4
5°	10233.7	11062.9	11884.1	12690.9	13482.4	14242.1	14948.1	15585.7	16147.3	16626.8	17013.4
2.5°	10310.3	11148.8	11977.6	12792.8	13594.0	14362.2	15074.2	15716.2	16281.3	16762.8	17145.5
0°	10336.0	11177.6	12009.0	12827.0	13631.6	14402.7	15116.8	15760.5	16327.1	16809.9	17192.1
-2.5°	10310.3	11148.8	11977.6	12792.8	13594.0	14362.2	15074.2	15716.2	16281.3	16762.8	17145.5
-5°	10233.7	11062.9	11884.1	12690.9	13482.4	14242.1	14948.1	15585.7	16147.3	16626.8	17013.4
-7.5°	10107.0	10921.2	11730.2	12523.6	13299.7	14046.3	14743.8	15376.1	15934.6	16414.7	16813.4
-10°	9932.0	10725.9	11518.5	12294.3	13050.4	13780.8	14468.8	15094.6	15641.1	16110.0	16499.7
-12.5°	9710.8	10479.6	11252.5	12007.5	12738.6	13444.8	14110.1	14719.3	15262.7	15733.0	16110.0
-15°	9446.4	10188.6	10933.2	11662.4	12367.4	13044.7	13688.9	14280.9	14805.3	15262.7	15641.1
-17.5°	9142.9	9857.1	10566.3	11268.9	11945.8	12590.7	13201.3	13769.4	14280.9	14719.3	15094.6
-20°	8801.8	9485.9	10160.7	10828.1	11474.1	12089.4	12666.4	13201.3	13688.9	14110.1	14468.8



REPORT NUMBER: P624754 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-77

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	8431.3	9081.6	9722.4	10347.4	10961.5	11543.5	12089.4	12590.7	13044.7	13444.8	13780.8
-25°	8031.9	8645.6	9252.8	9842.7	10411.6	10961.5	11474.1	11945.8	12367.4	12738.6	13050.4
-27.5°	7615.0	8188.7	8755.5	9310.5	9842.7	10347.4	10828.1	11268.9	11662.4	12007.5	12294.3
-30°	7178.5	7713.0	8241.5	8755.5	9252.8	9722.4	10160.7	10566.3	10933.2	11252.5	11518.5
-32.5°	6735.2	7226.2	7713.0	8188.7	8645.6	9081.6	9485.9	9857.1	10188.6	10479.6	10725.9
-35°	6277.7	6735.2	7178.5	7615.0	8031.9	8431.3	8801.8	9142.9	9446.4	9710.8	9932.0
-37.5°	5812.7	6235.3	6646.2	7039.6	7421.3	7779.5	8117.3	8426.8	8701.4	8943.3	9144.8
-40°	5353.6	5730.2	6109.2	6470.0	6815.4	7136.6	7442.2	7718.0	7964.6	8182.9	8364.3
-42.5°	4896.4	5241.0	5573.0	5901.9	6215.2	6508.6	6781.1	7026.2	7247.5	7441.1	7601.6
-45°	4446.5	4757.4	5055.7	5347.8	5620.3	5886.8	6132.4	6352.9	6551.7	6723.0	6864.9
-47.5°	4007.4	4281.1	4552.1	4810.3	5054.2	5287.4	5499.8	5692.3	5871.3	6024.7	6151.5
-50°	3579.5	3820.7	4061.6	4287.4	4506.6	4711.6	4897.8	5068.7	5222.7	5354.5	5463.4
-52.5°	3168.0	3383.6	3589.4	3785.5	3979.4	4157.5	4319.2	4471.0	4605.3	4720.2	4815.0
-55°	2803.5	2978.5	3143.3	3314.5	3479.1	3630.1	3769.2	3901.7	4017.7	4116.7	4198.4
-57.5°	2471.4	2610.1	2746.7	2888.2	3019.1	3139.1	3257.2	3368.9	3466.5	3549.8	3618.4
-60°	2170.8	2278.3	2396.1	2507.3	2610.1	2704.6	2803.5	2891.5	2968.5	3034.2	3088.2
-62.5°	1901.2	1993.5	2085.2	2170.8	2249.7	2328.4	2405.5	2474.1	2534.0	2585.0	2627.0
-65°	1663.4	1739.1	1810.0	1876.0	1937.4	2002.3	2061.0	2113.2	2158.7	2197.5	2229.4
-67.5°	1440.0	1502.4	1560.9	1615.2	1668.1	1717.8	1762.5	1802.4	1837.1	1866.6	1890.9
-70°	1227.4	1278.6	1326.5	1372.3	1416.5	1456.8	1493.2	1525.6	1553.8	1577.8	1597.5
-72.5°	1025.9	1066.9	1106.1	1144.8	1180.4	1213.0	1242.3	1268.3	1291.0	1310.2	1326.1
-75°	836.4	868.6	901.4	931.8	959.8	985.3	1008.3	1028.8	1046.6	1061.7	1074.1
-77.5°	665.0	690.9	715.0	737.4	758.0	776.8	793.7	808.7	821.8	832.9	842.0
-80°	512.7	530.7	547.5	563.0	577.4	590.4	602.2	612.6	621.7	629.4	635.8
-82.5°	367.7	380.4	392.3	403.3	413.4	422.7	431.0	438.4	444.8	450.2	454.7
-85°	233.7	241.0	247.8	254.1	260.0	265.3	270.1	274.3	278.0	281.1	283.7
-87.5°	112.6	116.0	119.1	122.0	124.6	127.0	129.2	131.1	132.8	134.2	135.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P624754 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-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°	136.3	137.0	137.4	137.5	137.4	137.0	136.3	135.4	134.2	132.8	131.1
85°	285.7	287.1	288.0	288.3	288.0	287.1	285.7	283.7	281.1	278.0	274.3
82.5°	458.2	460.7	462.2	462.7	462.2	460.7	458.2	454.7	450.2	444.8	438.4
80°	640.7	644.3	646.4	647.1	646.4	644.3	640.7	635.8	629.4	621.7	612.6
77.5°	849.1	854.2	857.3	858.3	857.3	854.2	849.1	842.0	832.9	821.8	808.7
75°	1083.8	1090.7	1094.9	1096.3	1094.9	1090.7	1083.8	1074.1	1061.7	1046.6	1028.8
72.5°	1338.5	1347.3	1352.6	1354.4	1352.6	1347.3	1338.5	1326.1	1310.2	1291.0	1268.3
70°	1612.9	1623.9	1630.5	1632.7	1630.5	1623.9	1612.9	1597.5	1577.8	1553.8	1525.6
67.5°	1909.9	1923.5	1931.7	1934.4	1931.7	1923.5	1909.9	1890.9	1866.6	1837.1	1802.4
65°	2254.3	2272.2	2282.9	2286.5	2282.9	2272.2	2254.3	2229.4	2197.5	2158.7	2113.2
62.5°	2659.8	2683.3	2697.5	2702.2	2697.5	2683.3	2659.8	2627.0	2585.0	2534.0	2474.1
60°	3130.4	3160.7	3178.9	3185.0	3178.9	3160.7	3130.4	3088.2	3034.2	2968.5	2891.5
57.5°	3672.1	3710.6	3733.8	3741.5	3733.8	3710.6	3672.1	3618.4	3549.8	3466.5	3368.9
55°	4262.3	4308.2	4335.8	4345.0	4335.8	4308.2	4262.3	4198.4	4116.7	4017.7	3901.7
52.5°	4889.2	4942.5	4974.6	4985.3	4974.6	4942.5	4889.2	4815.0	4720.2	4605.3	4471.0
50°	5548.7	5610.0	5646.9	5659.2	5646.9	5610.0	5548.7	5463.4	5354.5	5222.7	5068.7
47.5°	6251.0	6322.5	6365.6	6380.0	6365.6	6322.5	6251.0	6151.5	6024.7	5871.3	5692.3
45°	6976.2	7056.4	7104.7	7120.9	7104.7	7056.4	6976.2	6864.9	6723.0	6551.7	6352.9
42.5°	7727.8	7818.8	7873.7	7892.0	7873.7	7818.8	7727.8	7601.6	7441.1	7247.5	7026.2
40°	8507.2	8610.2	8672.5	8693.3	8672.5	8610.2	8507.2	8364.3	8182.9	7964.6	7718.0
37.5°	9303.8	9418.6	9488.1	9511.3	9488.1	9418.6	9303.8	9144.8	8943.3	8701.4	8426.8
35°	10107.0	10233.7	10310.3	10336.0	10310.3	10233.7	10107.0	9932.0	9710.8	9446.4	9142.9
32.5°	10921.2	11062.9	11148.8	11177.6	11148.8	11062.9	10921.2	10725.9	10479.6	10188.6	9857.1
30°	11730.2	11884.1	11977.6	12009.0	11977.6	11884.1	11730.2	11518.5	11252.5	10933.2	10566.3
27.5°	12523.6	12690.9	12792.8	12827.0	12792.8	12690.9	12523.6	12294.3	12007.5	11662.4	11268.9
25°	13299.7	13482.4	13594.0	13631.6	13594.0	13482.4	13299.7	13050.4	12738.6	12367.4	11945.8
22.5°	14046.3	14242.1	14362.2	14402.7	14362.2	14242.1	14046.3	13780.8	13444.8	13044.7	12590.7
20°	14743.8	14948.1	15074.2	15116.8	15074.2	14948.1	14743.8	14468.8	14110.1	13688.9	13201.3
17.5°	15376.1	15585.7	15716.2	15760.5	15716.2	15585.7	15376.1	15094.6	14719.3	14280.9	13769.4
15°	15934.6	16147.3	16281.3	16327.1	16281.3	16147.3	15934.6	15641.1	15262.7	14805.3	14280.9
12.5°	16414.7	16626.8	16762.8	16809.9	16762.8	16626.8	16414.7	16110.0	15733.0	15262.7	14719.3
10°	16813.4	17013.4	17145.5	17192.1	17145.5	17013.4	16813.4	16499.7	16110.0	15641.1	15094.6
7.5°	17101.7	17301.4	17422.6	17467.0	17422.6	17301.4	17101.7	16813.4	16414.7	15934.6	15376.1
5°	17301.4	17503.0	17625.9	17674.9	17625.9	17503.0	17301.4	17013.4	16626.8	16147.3	15585.7
2.5°	17422.6	17625.9	17759.3	17819.0	17759.3	17625.9	17422.6	17145.5	16762.8	16281.3	15716.2
0°	17467.0	17674.9	17819.0	17859.3	17819.0	17674.9	17467.0	17192.1	16809.9	16327.1	15760.5
-2.5°	17422.6	17625.9	17759.3	17819.0	17759.3	17625.9	17422.6	17145.5	16762.8	16281.3	15716.2
-5°	17301.4	17503.0	17625.9	17674.9	17625.9	17503.0	17301.4	17013.4	16626.8	16147.3	15585.7
-7.5°	17101.7	17301.4	17422.6	17467.0	17422.6	17301.4	17101.7	16813.4	16414.7	15934.6	15376.1
-10°	16813.4	17013.4	17145.5	17192.1	17145.5	17013.4	16813.4	16499.7	16110.0	15641.1	15094.6
-12.5°	16414.7	16626.8	16762.8	16809.9	16762.8	16626.8	16414.7	16110.0	15733.0	15262.7	14719.3
-15°	15934.6	16147.3	16281.3	16327.1	16281.3	16147.3	15934.6	15641.1	15262.7	14805.3	14280.9
-17.5°	15376.1	15585.7	15716.2	15760.5	15716.2	15585.7	15376.1	15094.6	14719.3	14280.9	13769.4
-20°	14743.8	14948.1	15074.2	15116.8	15074.2	14948.1	14743.8	14468.8	14110.1	13688.9	13201.3



REPORT NUMBER: P624754 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-77

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	14046.3	14242.1	14362.2	14402.7	14362.2	14242.1	14046.3	13780.8	13444.8	13044.7	12590.7
-25°	13299.7	13482.4	13594.0	13631.6	13594.0	13482.4	13299.7	13050.4	12738.6	12367.4	11945.8
-27.5°	12523.6	12690.9	12792.8	12827.0	12792.8	12690.9	12523.6	12294.3	12007.5	11662.4	11268.9
-30°	11730.2	11884.1	11977.6	12009.0	11977.6	11884.1	11730.2	11518.5	11252.5	10933.2	10566.3
-32.5°	10921.2	11062.9	11148.8	11177.6	11148.8	11062.9	10921.2	10725.9	10479.6	10188.6	9857.1
-35°	10107.0	10233.7	10310.3	10336.0	10310.3	10233.7	10107.0	9932.0	9710.8	9446.4	9142.9
-37.5°	9303.8	9418.6	9488.1	9511.3	9488.1	9418.6	9303.8	9144.8	8943.3	8701.4	8426.8
-40°	8507.2	8610.2	8672.5	8693.3	8672.5	8610.2	8507.2	8364.3	8182.9	7964.6	7718.0
-42.5°	7727.8	7818.8	7873.7	7892.0	7873.7	7818.8	7727.8	7601.6	7441.1	7247.5	7026.2
-45°	6976.2	7056.4	7104.7	7120.9	7104.7	7056.4	6976.2	6864.9	6723.0	6551.7	6352.9
-47.5°	6251.0	6322.5	6365.6	6380.0	6365.6	6322.5	6251.0	6151.5	6024.7	5871.3	5692.3
-50°	5548.7	5610.0	5646.9	5659.2	5646.9	5610.0	5548.7	5463.4	5354.5	5222.7	5068.7
-52.5°	4889.2	4942.5	4974.6	4985.3	4974.6	4942.5	4889.2	4815.0	4720.2	4605.3	4471.0
-55°	4262.3	4308.2	4335.8	4345.0	4335.8	4308.2	4262.3	4198.4	4116.7	4017.7	3901.7
-57.5°	3672.1	3710.6	3733.8	3741.5	3733.8	3710.6	3672.1	3618.4	3549.8	3466.5	3368.9
-60°	3130.4	3160.7	3178.9	3185.0	3178.9	3160.7	3130.4	3088.2	3034.2	2968.5	2891.5
-62.5°	2659.8	2683.3	2697.5	2702.2	2697.5	2683.3	2659.8	2627.0	2585.0	2534.0	2474.1
-65°	2254.3	2272.2	2282.9	2286.5	2282.9	2272.2	2254.3	2229.4	2197.5	2158.7	2113.2
-67.5°	1909.9	1923.5	1931.7	1934.4	1931.7	1923.5	1909.9	1890.9	1866.6	1837.1	1802.4
-70°	1612.9	1623.9	1630.5	1632.7	1630.5	1623.9	1612.9	1597.5	1577.8	1553.8	1525.6
-72.5°	1338.5	1347.3	1352.6	1354.4	1352.6	1347.3	1338.5	1326.1	1310.2	1291.0	1268.3
-75°	1083.8	1090.7	1094.9	1096.3	1094.9	1090.7	1083.8	1074.1	1061.7	1046.6	1028.8
-77.5°	849.1	854.2	857.3	858.3	857.3	854.2	849.1	842.0	832.9	821.8	808.7
-80°	640.7	644.3	646.4	647.1	646.4	644.3	640.7	635.8	629.4	621.7	612.6
-82.5°	458.2	460.7	462.2	462.7	462.2	460.7	458.2	454.7	450.2	444.8	438.4
-85°	285.7	287.1	288.0	288.3	288.0	287.1	285.7	283.7	281.1	278.0	274.3
-87.5°	136.3	137.0	137.4	137.5	137.4	137.0	136.3	135.4	134.2	132.8	131.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P624754 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-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°	129.2	127.0	124.6	122.0	119.1	116.0	112.6	109.1	105.3	101.4	97.2
85°	270.1	265.3	260.0	254.1	247.8	241.0	233.7	225.9	217.6	208.9	199.8
82.5°	431.0	422.7	413.4	403.3	392.3	380.4	367.7	354.1	339.8	324.7	308.9
80°	602.2	590.4	577.4	563.0	547.5	530.7	512.7	493.6	473.3	452.6	431.5
77.5°	793.7	776.8	758.0	737.4	715.0	690.9	665.0	638.8	613.5	586.8	558.8
75°	1008.3	985.3	959.8	931.8	901.4	868.6	836.4	803.3	768.4	731.6	693.2
72.5°	1242.3	1213.0	1180.4	1144.8	1106.1	1066.9	1025.9	982.2	936.2	887.7	839.4
70°	1493.2	1456.8	1416.5	1372.3	1326.5	1278.6	1227.4	1173.1	1115.8	1058.8	1000.7
67.5°	1762.5	1717.8	1668.1	1615.2	1560.9	1502.4	1440.0	1373.8	1307.6	1239.6	1168.6
65°	2061.0	2002.3	1937.4	1876.0	1810.0	1739.1	1663.4	1587.0	1509.1	1427.3	1342.8
62.5°	2405.5	2328.4	2249.7	2170.8	2085.2	1993.5	1901.2	1812.4	1719.0	1622.0	1527.7
60°	2803.5	2704.6	2610.1	2507.3	2396.1	2278.3	2170.8	2057.0	1937.4	1829.6	1717.8
57.5°	3257.2	3139.1	3019.1	2888.2	2746.7	2610.1	2471.4	2324.9	2188.6	2052.3	1913.8
55°	3769.2	3630.1	3479.1	3314.5	3143.3	2978.5	2803.5	2630.4	2463.5	2289.3	2135.4
52.5°	4319.2	4157.5	3979.4	3785.5	3589.4	3383.6	3168.0	2968.5	2759.5	2563.9	2369.1
50°	4897.8	4711.6	4506.6	4287.4	4061.6	3820.7	3579.5	3332.1	3088.2	2854.5	2624.7
47.5°	5499.8	5287.4	5054.2	4810.3	4552.1	4281.1	4007.4	3721.6	3444.7	3160.7	2902.3
45°	6132.4	5886.8	5620.3	5347.8	5055.7	4757.4	4446.5	4133.5	3813.4	3501.5	3185.0
42.5°	6781.1	6508.6	6215.2	5901.9	5573.0	5241.0	4896.4	4549.2	4197.1	3844.7	3501.5
40°	7442.2	7136.6	6815.4	6470.0	6109.2	5730.2	5353.6	4966.5	4583.7	4197.1	3813.4
37.5°	8117.3	7779.5	7421.3	7039.6	6646.2	6235.3	5812.7	5391.4	4966.5	4549.2	4133.5
35°	8801.8	8431.3	8031.9	7615.0	7178.5	6735.2	6277.7	5812.7	5353.6	4896.4	4446.5
32.5°	9485.9	9081.6	8645.6	8188.7	7713.0	7226.2	6735.2	6235.3	5730.2	5241.0	4757.4
30°	10160.7	9722.4	9252.8	8755.5	8241.5	7713.0	7178.5	6646.2	6109.2	5573.0	5055.7
27.5°	10828.1	10347.4	9842.7	9310.5	8755.5	8188.7	7615.0	7039.6	6470.0	5901.9	5347.8
25°	11474.1	10961.5	10411.6	9842.7	9252.8	8645.6	8031.9	7421.3	6815.4	6215.2	5620.3
22.5°	12089.4	11543.5	10961.5	10347.4	9722.4	9081.6	8431.3	7779.5	7136.6	6508.6	5886.8
20°	12666.4	12089.4	11474.1	10828.1	10160.7	9485.9	8801.8	8117.3	7442.2	6781.1	6132.4
17.5°	13201.3	12590.7	11945.8	11268.9	10566.3	9857.1	9142.9	8426.8	7718.0	7026.2	6352.9
15°	13688.9	13044.7	12367.4	11662.4	10933.2	10188.6	9446.4	8701.4	7964.6	7247.5	6551.7
12.5°	14110.1	13444.8	12738.6	12007.5	11252.5	10479.6	9710.8	8943.3	8182.9	7441.1	6723.0
10°	14468.8	13780.8	13050.4	12294.3	11518.5	10725.9	9932.0	9144.8	8364.3	7601.6	6864.9
7.5°	14743.8	14046.3	13299.7	12523.6	11730.2	10921.2	10107.0	9303.8	8507.2	7727.8	6976.2
5°	14948.1	14242.1	13482.4	12690.9	11884.1	11062.9	10233.7	9418.6	8610.2	7818.8	7056.4
2.5°	15074.2	14362.2	13594.0	12792.8	11977.6	11148.8	10310.3	9488.1	8672.5	7873.7	7104.7
0°	15116.8	14402.7	13631.6	12827.0	12009.0	11177.6	10336.0	9511.3	8693.3	7892.0	7120.9
-2.5°	15074.2	14362.2	13594.0	12792.8	11977.6	11148.8	10310.3	9488.1	8672.5	7873.7	7104.7
-5°	14948.1	14242.1	13482.4	12690.9	11884.1	11062.9	10233.7	9418.6	8610.2	7818.8	7056.4
-7.5°	14743.8	14046.3	13299.7	12523.6	11730.2	10921.2	10107.0	9303.8	8507.2	7727.8	6976.2
-10°	14468.8	13780.8	13050.4	12294.3	11518.5	10725.9	9932.0	9144.8	8364.3	7601.6	6864.9
-12.5°	14110.1	13444.8	12738.6	12007.5	11252.5	10479.6	9710.8	8943.3	8182.9	7441.1	6723.0
-15°	13688.9	13044.7	12367.4	11662.4	10933.2	10188.6	9446.4	8701.4	7964.6	7247.5	6551.7
-17.5°	13201.3	12590.7	11945.8	11268.9	10566.3	9857.1	9142.9	8426.8	7718.0	7026.2	6352.9
-20°	12666.4	12089.4	11474.1	10828.1	10160.7	9485.9	8801.8	8117.3	7442.2	6781.1	6132.4



REPORT NUMBER: P624754 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-77

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	12089.4	11543.5	10961.5	10347.4	9722.4	9081.6	8431.3	7779.5	7136.6	6508.6	5886.8
-25°	11474.1	10961.5	10411.6	9842.7	9252.8	8645.6	8031.9	7421.3	6815.4	6215.2	5620.3
-27.5°	10828.1	10347.4	9842.7	9310.5	8755.5	8188.7	7615.0	7039.6	6470.0	5901.9	5347.8
-30°	10160.7	9722.4	9252.8	8755.5	8241.5	7713.0	7178.5	6646.2	6109.2	5573.0	5055.7
-32.5°	9485.9	9081.6	8645.6	8188.7	7713.0	7226.2	6735.2	6235.3	5730.2	5241.0	4757.4
-35°	8801.8	8431.3	8031.9	7615.0	7178.5	6735.2	6277.7	5812.7	5353.6	4896.4	4446.5
-37.5°	8117.3	7779.5	7421.3	7039.6	6646.2	6235.3	5812.7	5391.4	4966.5	4549.2	4133.5
-40°	7442.2	7136.6	6815.4	6470.0	6109.2	5730.2	5353.6	4966.5	4583.7	4197.1	3813.4
-42.5°	6781.1	6508.6	6215.2	5901.9	5573.0	5241.0	4896.4	4549.2	4197.1	3844.7	3501.5
-45°	6132.4	5886.8	5620.3	5347.8	5055.7	4757.4	4446.5	4133.5	3813.4	3501.5	3185.0
-47.5°	5499.8	5287.4	5054.2	4810.3	4552.1	4281.1	4007.4	3721.6	3444.7	3160.7	2902.3
-50°	4897.8	4711.6	4506.6	4287.4	4061.6	3820.7	3579.5	3332.1	3088.2	2854.5	2624.7
-52.5°	4319.2	4157.5	3979.4	3785.5	3589.4	3383.6	3168.0	2968.5	2759.5	2563.9	2369.1
-55°	3769.2	3630.1	3479.1	3314.5	3143.3	2978.5	2803.5	2630.4	2463.5	2289.3	2135.4
-57.5°	3257.2	3139.1	3019.1	2888.2	2746.7	2610.1	2471.4	2324.9	2188.6	2052.3	1913.8
-60°	2803.5	2704.6	2610.1	2507.3	2396.1	2278.3	2170.8	2057.0	1937.4	1829.6	1717.8
-62.5°	2405.5	2328.4	2249.7	2170.8	2085.2	1993.5	1901.2	1812.4	1719.0	1622.0	1527.7
-65°	2061.0	2002.3	1937.4	1876.0	1810.0	1739.1	1663.4	1587.0	1509.1	1427.3	1342.8
-67.5°	1762.5	1717.8	1668.1	1615.2	1560.9	1502.4	1440.0	1373.8	1307.6	1239.6	1168.6
-70°	1493.2	1456.8	1416.5	1372.3	1326.5	1278.6	1227.4	1173.1	1115.8	1058.8	1000.7
-72.5°	1242.3	1213.0	1180.4	1144.8	1106.1	1066.9	1025.9	982.2	936.2	887.7	839.4
-75°	1008.3	985.3	959.8	931.8	901.4	868.6	836.4	803.3	768.4	731.6	693.2
-77.5°	793.7	776.8	758.0	737.4	715.0	690.9	665.0	638.8	613.5	586.8	558.8
-80°	602.2	590.4	577.4	563.0	547.5	530.7	512.7	493.6	473.3	452.6	431.5
-82.5°	431.0	422.7	413.4	403.3	392.3	380.4	367.7	354.1	339.8	324.7	308.9
-85°	270.1	265.3	260.0	254.1	247.8	241.0	233.7	225.9	217.6	208.9	199.8
-87.5°	129.2	127.0	124.6	122.0	119.1	116.0	112.6	109.1	105.3	101.4	97.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P624754 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-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°	92.9	88.4	83.7	78.8	73.9	68.7	63.5	58.1	52.6	47.0	41.3
85°	190.3	180.4	170.2	159.5	148.6	137.4	126.9	116.1	105.1	94.0	82.6
82.5°	292.4	277.0	261.6	245.7	229.3	212.4	195.1	177.4	159.4	141.0	123.7
80°	409.5	386.6	362.8	338.3	313.0	287.1	264.1	240.6	216.5	192.1	167.2
77.5°	529.7	499.4	468.0	437.0	405.4	372.9	339.6	305.6	273.3	242.8	211.8
75°	653.0	615.9	578.2	539.2	499.1	458.2	418.3	377.6	336.0	293.8	256.0
72.5°	792.5	743.8	693.4	642.1	595.3	547.3	498.2	448.8	400.5	351.3	301.4
70°	940.2	877.3	817.5	758.1	696.9	635.8	579.7	522.5	464.2	408.1	351.3
67.5°	1094.7	1023.9	950.8	875.4	804.7	734.2	662.1	596.0	530.6	464.2	400.5
65°	1260.4	1175.0	1087.6	1003.8	917.8	832.9	753.0	671.5	596.0	522.5	448.8
62.5°	1429.8	1330.2	1233.2	1133.3	1035.8	939.1	842.3	753.0	662.1	579.7	498.2
60°	1604.0	1493.2	1379.0	1268.3	1156.6	1046.6	939.1	832.9	734.2	635.8	547.3
57.5°	1787.7	1657.4	1531.6	1404.5	1280.0	1156.6	1035.8	917.8	804.7	696.9	595.3
55°	1976.5	1830.0	1685.4	1544.5	1404.5	1268.3	1133.3	1003.8	875.4	758.1	642.1
52.5°	2185.8	2009.8	1844.1	1685.4	1531.6	1379.0	1233.2	1087.6	950.8	817.5	693.4
50°	2409.3	2202.6	2009.8	1830.0	1657.4	1493.2	1330.2	1175.0	1023.9	877.3	743.8
47.5°	2645.1	2409.3	2185.8	1976.5	1787.7	1604.0	1429.8	1260.4	1094.7	940.2	792.5
45°	2902.3	2624.7	2369.1	2135.4	1913.8	1717.8	1527.7	1342.8	1168.6	1000.7	839.4
42.5°	3160.7	2854.5	2563.9	2289.3	2052.3	1829.6	1622.0	1427.3	1239.6	1058.8	887.7
40°	3444.7	3088.2	2759.5	2463.5	2188.6	1937.4	1719.0	1509.1	1307.6	1115.8	936.2
37.5°	3721.6	3332.1	2968.5	2630.4	2324.9	2057.0	1812.4	1587.0	1373.8	1173.1	982.2
35°	4007.4	3579.5	3168.0	2803.5	2471.4	2170.8	1901.2	1663.4	1440.0	1227.4	1025.9
32.5°	4281.1	3820.7	3383.6	2978.5	2610.1	2278.3	1993.5	1739.1	1502.4	1278.6	1066.9
30°	4552.1	4061.6	3589.4	3143.3	2746.7	2396.1	2085.2	1810.0	1560.9	1326.5	1106.1
27.5°	4810.3	4287.4	3785.5	3314.5	2888.2	2507.3	2170.8	1876.0	1615.2	1372.3	1144.8
25°	5054.2	4506.6	3979.4	3479.1	3019.1	2610.1	2249.7	1937.4	1668.1	1416.5	1180.4
22.5°	5287.4	4711.6	4157.5	3630.1	3139.1	2704.6	2328.4	2002.3	1717.8	1456.8	1213.0
20°	5499.8	4897.8	4319.2	3769.2	3257.2	2803.5	2405.5	2061.0	1762.5	1493.2	1242.3
17.5°	5692.3	5068.7	4471.0	3901.7	3368.9	2891.5	2474.1	2113.2	1802.4	1525.6	1268.3
15°	5871.3	5222.7	4605.3	4017.7	3466.5	2968.5	2534.0	2158.7	1837.1	1553.8	1291.0
12.5°	6024.7	5354.5	4720.2	4116.7	3549.8	3034.2	2585.0	2197.5	1866.6	1577.8	1310.2
10°	6151.5	5463.4	4815.0	4198.4	3618.4	3088.2	2627.0	2229.4	1890.9	1597.5	1326.1
7.5°	6251.0	5548.7	4889.2	4262.3	3672.1	3130.4	2659.8	2254.3	1909.9	1612.9	1338.5
5°	6322.5	5610.0	4942.5	4308.2	3710.6	3160.7	2683.3	2272.2	1923.5	1623.9	1347.3
2.5°	6365.6	5646.9	4974.6	4335.8	3733.8	3178.9	2697.5	2282.9	1931.7	1630.5	1352.6
0°	6380.0	5659.2	4985.3	4345.0	3741.5	3185.0	2702.2	2286.5	1934.4	1632.7	1354.4
-2.5°	6365.6	5646.9	4974.6	4335.8	3733.8	3178.9	2697.5	2282.9	1931.7	1630.5	1352.6
-5°	6322.5	5610.0	4942.5	4308.2	3710.6	3160.7	2683.3	2272.2	1923.5	1623.9	1347.3
-7.5°	6251.0	5548.7	4889.2	4262.3	3672.1	3130.4	2659.8	2254.3	1909.9	1612.9	1338.5
-10°	6151.5	5463.4	4815.0	4198.4	3618.4	3088.2	2627.0	2229.4	1890.9	1597.5	1326.1
-12.5°	6024.7	5354.5	4720.2	4116.7	3549.8	3034.2	2585.0	2197.5	1866.6	1577.8	1310.2
-15°	5871.3	5222.7	4605.3	4017.7	3466.5	2968.5	2534.0	2158.7	1837.1	1553.8	1291.0
-17.5°	5692.3	5068.7	4471.0	3901.7	3368.9	2891.5	2474.1	2113.2	1802.4	1525.6	1268.3
-20°	5499.8	4897.8	4319.2	3769.2	3257.2	2803.5	2405.5	2061.0	1762.5	1493.2	1242.3



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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°	5287.4	4711.6	4157.5	3630.1	3139.1	2704.6	2328.4	2002.3	1717.8	1456.8	1213.0
-25°	5054.2	4506.6	3979.4	3479.1	3019.1	2610.1	2249.7	1937.4	1668.1	1416.5	1180.4
-27.5°	4810.3	4287.4	3785.5	3314.5	2888.2	2507.3	2170.8	1876.0	1615.2	1372.3	1144.8
-30°	4552.1	4061.6	3589.4	3143.3	2746.7	2396.1	2085.2	1810.0	1560.9	1326.5	1106.1
-32.5°	4281.1	3820.7	3383.6	2978.5	2610.1	2278.3	1993.5	1739.1	1502.4	1278.6	1066.9
-35°	4007.4	3579.5	3168.0	2803.5	2471.4	2170.8	1901.2	1663.4	1440.0	1227.4	1025.9
-37.5°	3721.6	3332.1	2968.5	2630.4	2324.9	2057.0	1812.4	1587.0	1373.8	1173.1	982.2
-40°	3444.7	3088.2	2759.5	2463.5	2188.6	1937.4	1719.0	1509.1	1307.6	1115.8	936.2
-42.5°	3160.7	2854.5	2563.9	2289.3	2052.3	1829.6	1622.0	1427.3	1239.6	1058.8	887.7
-45°	2902.3	2624.7	2369.1	2135.4	1913.8	1717.8	1527.7	1342.8	1168.6	1000.7	839.4
-47.5°	2645.1	2409.3	2185.8	1976.5	1787.7	1604.0	1429.8	1260.4	1094.7	940.2	792.5
-50°	2409.3	2202.6	2009.8	1830.0	1657.4	1493.2	1330.2	1175.0	1023.9	877.3	743.8
-52.5°	2185.8	2009.8	1844.1	1685.4	1531.6	1379.0	1233.2	1087.6	950.8	817.5	693.4
-55°	1976.5	1830.0	1685.4	1544.5	1404.5	1268.3	1133.3	1003.8	875.4	758.1	642.1
-57.5°	1787.7	1657.4	1531.6	1404.5	1280.0	1156.6	1035.8	917.8	804.7	696.9	595.3
-60°	1604.0	1493.2	1379.0	1268.3	1156.6	1046.6	939.1	832.9	734.2	635.8	547.3
-62.5°	1429.8	1330.2	1233.2	1133.3	1035.8	939.1	842.3	753.0	662.1	579.7	498.2
-65°	1260.4	1175.0	1087.6	1003.8	917.8	832.9	753.0	671.5	596.0	522.5	448.8
-67.5°	1094.7	1023.9	950.8	875.4	804.7	734.2	662.1	596.0	530.6	464.2	400.5
-70°	940.2	877.3	817.5	758.1	696.9	635.8	579.7	522.5	464.2	408.1	351.3
-72.5°	792.5	743.8	693.4	642.1	595.3	547.3	498.2	448.8	400.5	351.3	301.4
-75°	653.0	615.9	578.2	539.2	499.1	458.2	418.3	377.6	336.0	293.8	256.0
-77.5°	529.7	499.4	468.0	437.0	405.4	372.9	339.6	305.6	273.3	242.8	211.8
-80°	409.5	386.6	362.8	338.3	313.0	287.1	264.1	240.6	216.5	192.1	167.2
-82.5°	292.4	277.0	261.6	245.7	229.3	212.4	195.1	177.4	159.4	141.0	123.7
-85°	190.3	180.4	170.2	159.5	148.6	137.4	126.9	116.1	105.1	94.0	82.6
-87.5°	92.9	88.4	83.7	78.8	73.9	68.7	63.5	58.1	52.6	47.0	41.3
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-77

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	35.6	29.8	23.9	17.9	12.0	6.0	0.0
85°	71.1	59.4	47.7	35.8	23.9	12.0	0.0
82.5°	106.5	89.0	71.4	53.7	35.8	17.9	0.0
80°	142.1	118.5	95.0	71.4	47.7	23.9	0.0
77.5°	180.4	148.7	118.5	89.0	59.4	29.8	0.0
75°	218.4	180.4	142.1	106.5	71.1	35.6	0.0
72.5°	256.0	211.8	167.2	123.7	82.6	41.3	0.0
70°	293.8	242.8	192.1	141.0	94.0	47.0	0.0
67.5°	336.0	273.3	216.5	159.4	105.1	52.6	0.0
65°	377.6	305.6	240.6	177.4	116.1	58.1	0.0
62.5°	418.3	339.6	264.1	195.1	126.9	63.5	0.0
60°	458.2	372.9	287.1	212.4	137.4	68.7	0.0
57.5°	499.1	405.4	313.0	229.3	148.6	73.9	0.0
55°	539.2	437.0	338.3	245.7	159.5	78.8	0.0
52.5°	578.2	468.0	362.8	261.6	170.2	83.7	0.0
50°	615.9	499.4	386.6	277.0	180.4	88.4	0.0
47.5°	653.0	529.7	409.5	292.4	190.3	92.9	0.0
45°	693.2	558.8	431.5	308.9	199.8	97.2	0.0
42.5°	731.6	586.8	452.6	324.7	208.9	101.4	0.0
40°	768.4	613.5	473.3	339.8	217.6	105.3	0.0
37.5°	803.3	638.8	493.6	354.1	225.9	109.1	0.0
35°	836.4	665.0	512.7	367.7	233.7	112.6	0.0
32.5°	868.6	690.9	530.7	380.4	241.0	116.0	0.0
30°	901.4	715.0	547.5	392.3	247.8	119.1	0.0
27.5°	931.8	737.4	563.0	403.3	254.1	122.0	0.0
25°	959.8	758.0	577.4	413.4	260.0	124.6	0.0
22.5°	985.3	776.8	590.4	422.7	265.3	127.0	0.0
20°	1008.3	793.7	602.2	431.0	270.1	129.2	0.0
17.5°	1028.8	808.7	612.6	438.4	274.3	131.1	0.0
15°	1046.6	821.8	621.7	444.8	278.0	132.8	0.0
12.5°	1061.7	832.9	629.4	450.2	281.1	134.2	0.0
10°	1074.1	842.0	635.8	454.7	283.7	135.4	0.0
7.5°	1083.8	849.1	640.7	458.2	285.7	136.3	0.0
5°	1090.7	854.2	644.3	460.7	287.1	137.0	0.0
2.5°	1094.9	857.3	646.4	462.2	288.0	137.4	0.0
0°	1096.3	858.3	647.1	462.7	288.3	137.5	0.0
-2.5°	1094.9	857.3	646.4	462.2	288.0	137.4	0.0
-5°	1090.7	854.2	644.3	460.7	287.1	137.0	0.0
-7.5°	1083.8	849.1	640.7	458.2	285.7	136.3	0.0
-10°	1074.1	842.0	635.8	454.7	283.7	135.4	0.0
-12.5°	1061.7	832.9	629.4	450.2	281.1	134.2	0.0
-15°	1046.6	821.8	621.7	444.8	278.0	132.8	0.0
-17.5°	1028.8	808.7	612.6	438.4	274.3	131.1	0.0
-20°	1008.3	793.7	602.2	431.0	270.1	129.2	0.0

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REPORT NUMBER: P624754 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-77

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	985.3	776.8	590.4	422.7	265.3	127.0	0.0
-25°	959.8	758.0	577.4	413.4	260.0	124.6	0.0
-27.5°	931.8	737.4	563.0	403.3	254.1	122.0	0.0
-30°	901.4	715.0	547.5	392.3	247.8	119.1	0.0
-32.5°	868.6	690.9	530.7	380.4	241.0	116.0	0.0
-35°	836.4	665.0	512.7	367.7	233.7	112.6	0.0
-37.5°	803.3	638.8	493.6	354.1	225.9	109.1	0.0
-40°	768.4	613.5	473.3	339.8	217.6	105.3	0.0
-42.5°	731.6	586.8	452.6	324.7	208.9	101.4	0.0
-45°	693.2	558.8	431.5	308.9	199.8	97.2	0.0
-47.5°	653.0	529.7	409.5	292.4	190.3	92.9	0.0
-50°	615.9	499.4	386.6	277.0	180.4	88.4	0.0
-52.5°	578.2	468.0	362.8	261.6	170.2	83.7	0.0
-55°	539.2	437.0	338.3	245.7	159.5	78.8	0.0
-57.5°	499.1	405.4	313.0	229.3	148.6	73.9	0.0
-60°	458.2	372.9	287.1	212.4	137.4	68.7	0.0
-62.5°	418.3	339.6	264.1	195.1	126.9	63.5	0.0
-65°	377.6	305.6	240.6	177.4	116.1	58.1	0.0
-67.5°	336.0	273.3	216.5	159.4	105.1	52.6	0.0
-70°	293.8	242.8	192.1	141.0	94.0	47.0	0.0
-72.5°	256.0	211.8	167.2	123.7	82.6	41.3	0.0
-75°	218.4	180.4	142.1	106.5	71.1	35.6	0.0
-77.5°	180.4	148.7	118.5	89.0	59.4	29.8	0.0
-80°	142.1	118.5	95.0	71.4	47.7	23.9	0.0
-82.5°	106.5	89.0	71.4	53.7	35.8	17.9	0.0
-85°	71.1	59.4	47.7	35.8	23.9	12.0	0.0
-87.5°	35.6	29.8	23.9	17.9	12.0	6.0	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)