

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: P624796 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-VN-08-E-PRO-4000K-77**

Issue Date: 11/8/2022



**Test Information**

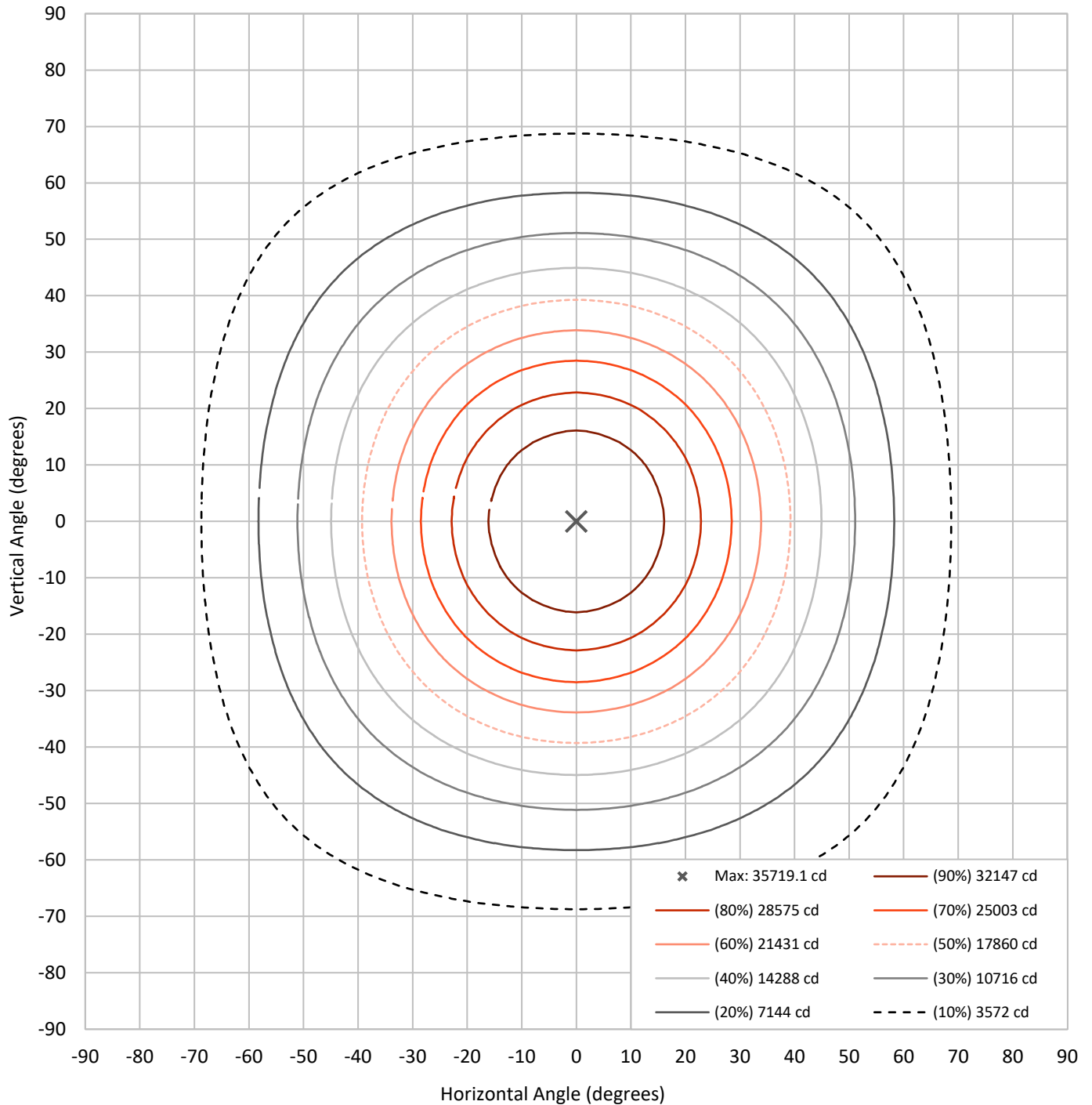
Test Method: LM-79-08  
Report Number: P624796 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-765-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/8/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-08-E-PRO-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:	64300.8 lumens	Max Intensity:	35719.1 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:	37098.4 lumens	Field Lumens:	60745.5 lumens
Beam Efficiency:	57.7%	Field Efficiency:	94.5%
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





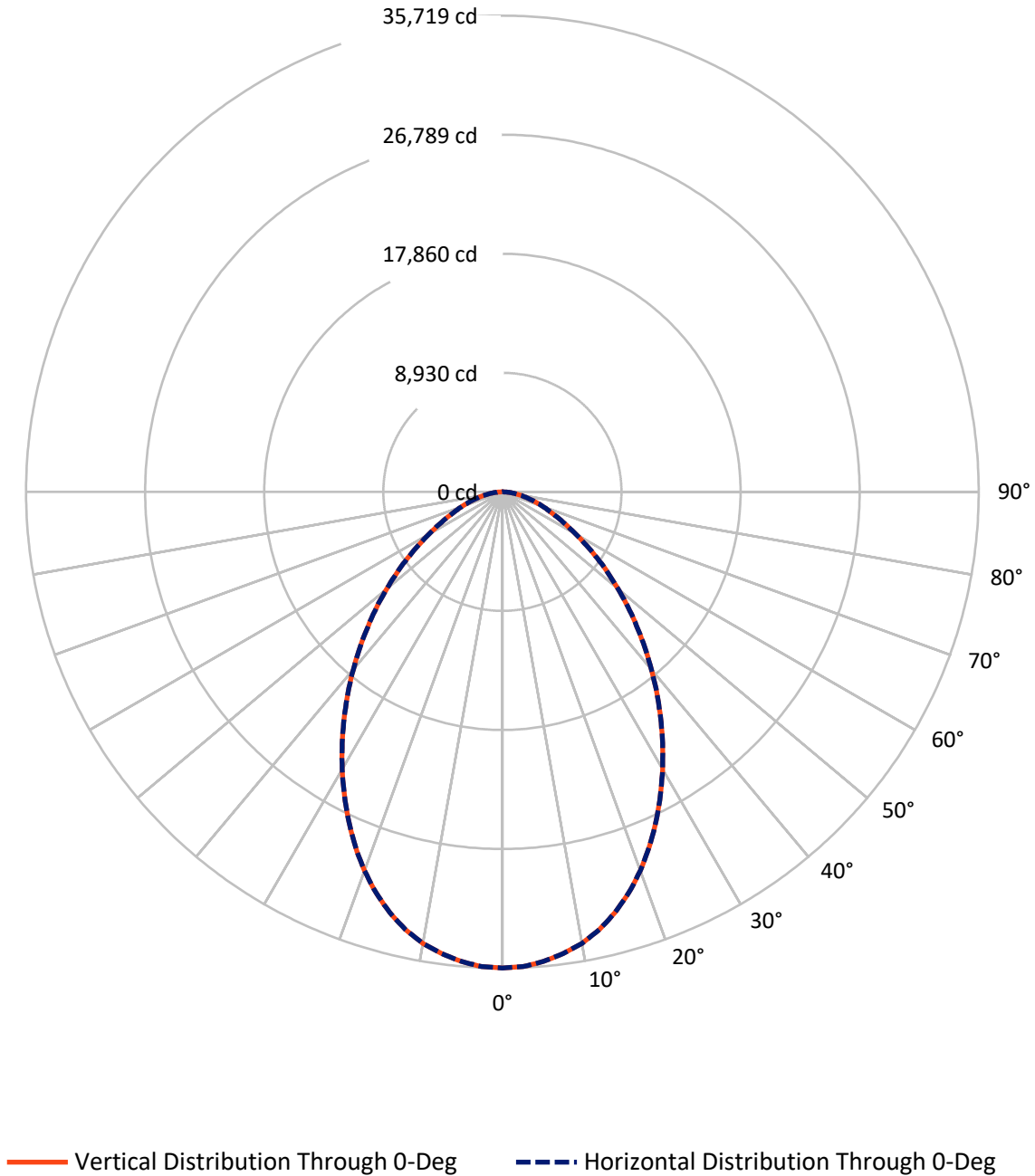
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### Lumen Table

90																			
80	5.4	37.7	93.5	148.0	170.4	148.0	93.5	37.7	5.4										
70																			
60	17.0	17.6	35.4	58.2	83.6	108.5	128.9	140.2	140.2	128.9	108.5	83.6	58.2	35.4	17.6				17.0
50		26.3	54.4	93.0	141.4	193.3	237.2	262.0	262.0	237.2	193.3	141.4	93.0	54.4	26.3				
40	28.6	35.2	75.7	138.9	222.4	310.6	384.9	427.5	427.5	384.9	310.6	222.4	138.9	75.7	35.2				28.6
30		43.8	99.7	192.5	313.4	442.7	553.8	618.5	618.5	553.8	442.7	313.4	192.5	99.7	43.8				
20	37.4	51.4	123.5	243.4	400.7	572.9	723.7	812.6	812.6	723.7	572.9	400.7	243.4	123.5	51.4				37.4
10		57.4	142.3	283.3	470.8	679.6	864.4	971.4	971.4	864.4	679.6	470.8	283.3	142.3	57.4				
0	40.6	60.6	152.5	305.2	510.1	740.3	942.3	1053.9	1053.9	942.3	740.3	510.1	305.2	152.5	60.6				40.6
-10		60.6	152.5	305.2	510.1	740.3	942.3	1053.9	1053.9	942.3	740.3	510.1	305.2	152.5	60.6				
-20	37.4	57.4	142.3	283.3	470.8	679.6	864.4	971.4	971.4	864.4	679.6	470.8	283.3	142.3	57.4				37.4
-30		51.4	123.5	243.4	400.7	572.9	723.7	812.6	812.6	723.7	572.9	400.7	243.4	123.5	51.4				
-40	28.6	43.8	99.7	192.5	313.4	442.7	553.8	618.5	618.5	553.8	442.7	313.4	192.5	99.7	43.8				28.6
-50		35.2	75.7	138.9	222.4	310.6	384.9	427.5	427.5	384.9	310.6	222.4	138.9	75.7	35.2				
-60	17.0	26.3	54.4	93.0	141.4	193.3	237.2	262.0	262.0	237.2	193.3	141.4	93.0	54.4	26.3				17.0
-70		17.6	35.4	58.2	83.6	108.5	128.9	140.2	140.2	128.9	108.5	83.6	58.2	35.4	17.6				
-80	5.4	37.7	93.5	148.0	170.4	148.0	93.5	37.7	5.4										
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

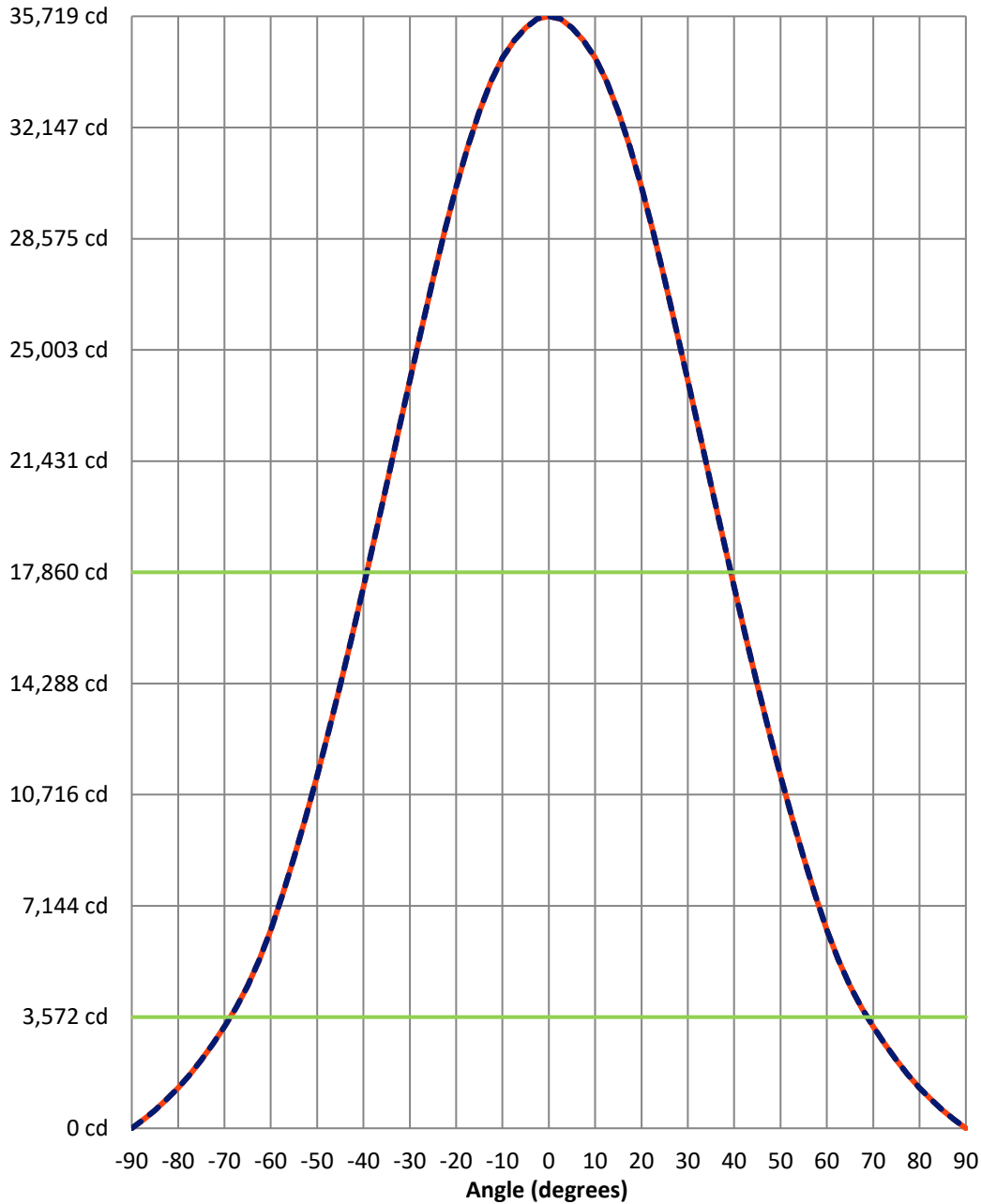
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 78.6°  
 V Angle: 78.6°  
 Lumens: 37098.4  
 Efficiency: 57.7%

**Field:**  
 H Angle: 137.5°  
 V Angle: 137.5°  
 Lumens: 60745.5  
 Efficiency: 94.5%

**Spill:**  
 Lumens: 3555.3  
 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	12.0	24.0	35.9	47.7	59.5	71.1	82.6	94.0	105.2	116.1
85°	0.0	24.0	47.9	71.7	95.4	118.9	142.1	165.1	187.8	210.2	232.1
82.5°	0.0	35.9	71.7	107.3	142.8	178.0	212.9	247.3	282.0	318.7	354.8
80°	0.0	47.7	95.4	142.8	190.0	236.8	284.1	334.4	384.1	433.1	481.2
77.5°	0.0	59.5	118.9	178.0	236.8	297.2	360.8	423.6	485.6	546.7	611.3
75°	0.0	71.1	142.1	212.9	284.1	360.8	436.8	512.0	587.7	672.1	755.1
72.5°	0.0	82.6	165.1	247.3	334.4	423.6	512.0	602.9	702.6	800.9	897.6
70°	0.0	94.0	187.8	282.0	384.1	485.6	587.7	702.6	816.2	928.4	1044.9
67.5°	0.0	105.2	210.2	318.7	433.1	546.7	672.1	800.9	928.4	1061.2	1191.9
65°	0.0	116.1	232.1	354.8	481.2	611.3	755.1	897.6	1044.9	1191.9	1342.9
62.5°	0.0	126.9	253.6	390.2	528.3	679.3	836.6	996.3	1159.4	1324.1	1505.9
60°	0.0	137.4	274.6	424.8	574.4	745.8	916.3	1094.6	1271.5	1468.4	1665.7
57.5°	0.0	147.7	297.1	458.6	626.0	810.7	998.1	1190.5	1393.7	1609.4	1835.6
55°	0.0	157.6	319.0	491.4	676.6	873.9	1078.3	1284.1	1516.1	1750.8	2007.6
52.5°	0.0	167.3	340.3	523.3	725.6	935.8	1156.2	1386.7	1635.0	1901.6	2175.2
50°	0.0	176.7	360.8	554.1	773.1	998.6	1231.6	1487.6	1754.7	2047.9	2350.1
47.5°	0.0	185.7	380.6	584.9	818.9	1059.3	1306.0	1585.0	1880.3	2189.4	2520.9
45°	0.0	194.4	399.6	617.9	863.0	1117.6	1386.3	1678.8	2001.3	2337.1	2685.7
42.5°	0.0	202.6	417.9	649.5	905.2	1173.5	1463.2	1775.5	2117.5	2479.3	2854.7
40°	0.0	210.6	435.2	679.7	946.6	1226.8	1536.7	1872.3	2231.6	2615.3	3018.3
37.5°	0.0	218.1	451.7	708.3	987.0	1277.5	1606.6	1964.5	2346.3	2747.7	3174.2
35°	0.0	225.2	467.3	735.4	1025.3	1330.0	1672.7	2051.7	2454.9	2880.1	3326.9
32.5°	0.0	231.8	482.0	760.8	1061.2	1381.6	1737.2	2133.8	2557.2	3004.9	3478.2
30°	0.0	238.1	495.7	784.5	1094.8	1429.9	1802.8	2212.2	2653.0	3121.8	3620.1
27.5°	0.0	243.8	508.4	806.6	1126.0	1474.7	1863.6	2289.6	2744.6	3230.6	3752.2
25°	0.0	249.1	520.0	826.8	1154.7	1515.9	1919.6	2360.9	2833.1	3336.3	3874.9
22.5°	0.0	254.0	530.6	845.3	1180.8	1553.5	1970.7	2425.9	2913.8	3435.6	4004.8
20°	0.0	258.3	540.2	861.9	1204.3	1587.3	2016.7	2484.6	2986.6	3525.2	4122.1
17.5°	0.0	262.2	548.7	876.6	1225.2	1617.4	2057.5	2536.6	3051.3	3604.9	4226.5
15°	0.0	265.5	556.1	889.5	1243.3	1643.5	2093.1	2582.0	3107.6	3674.3	4317.6
12.5°	0.0	268.4	562.4	900.4	1258.8	1665.7	2123.4	2620.6	3155.6	3733.5	4395.1
10°	0.0	270.7	567.5	909.3	1271.5	1684.0	2148.2	2652.3	3195.0	3782.1	4458.9
7.5°	0.0	272.5	571.5	916.3	1281.4	1698.2	2167.6	2677.0	3225.8	3820.0	4508.7
5°	0.0	273.9	574.4	921.3	1288.4	1708.4	2181.5	2694.7	3247.8	3847.2	4544.4
2.5°	0.0	274.6	576.1	924.3	1292.7	1714.6	2189.8	2705.3	3261.1	3863.5	4565.8
0°	0.0	274.9	576.7	925.3	1294.1	1716.6	2192.6	2708.9	3265.5	3869.0	4573.0
-2.5°	0.0	274.6	576.1	924.3	1292.7	1714.6	2189.8	2705.3	3261.1	3863.5	4565.8
-5°	0.0	273.9	574.4	921.3	1288.4	1708.4	2181.5	2694.7	3247.8	3847.2	4544.4
-7.5°	0.0	272.5	571.5	916.3	1281.4	1698.2	2167.6	2677.0	3225.8	3820.0	4508.7
-10°	0.0	270.7	567.5	909.3	1271.5	1684.0	2148.2	2652.3	3195.0	3782.1	4458.9
-12.5°	0.0	268.4	562.4	900.4	1258.8	1665.7	2123.4	2620.6	3155.6	3733.5	4395.1
-15°	0.0	265.5	556.1	889.5	1243.3	1643.5	2093.1	2582.0	3107.6	3674.3	4317.6
-17.5°	0.0	262.2	548.7	876.6	1225.2	1617.4	2057.5	2536.6	3051.3	3604.9	4226.5
-20°	0.0	258.3	540.2	861.9	1204.3	1587.3	2016.7	2484.6	2986.6	3525.2	4122.1



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 CATALOG NUMBER: EPH-VN-08-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	254.0	530.6	845.3	1180.8	1553.5	1970.7	2425.9	2913.8	3435.6	4004.8
-25°	0.0	249.1	520.0	826.8	1154.7	1515.9	1919.6	2360.9	2833.1	3336.3	3874.9
-27.5°	0.0	243.8	508.4	806.6	1126.0	1474.7	1863.6	2289.6	2744.6	3230.6	3752.2
-30°	0.0	238.1	495.7	784.5	1094.8	1429.9	1802.8	2212.2	2653.0	3121.8	3620.1
-32.5°	0.0	231.8	482.0	760.8	1061.2	1381.6	1737.2	2133.8	2557.2	3004.9	3478.2
-35°	0.0	225.2	467.3	735.4	1025.3	1330.0	1672.7	2051.7	2454.9	2880.1	3326.9
-37.5°	0.0	218.1	451.7	708.3	987.0	1277.5	1606.6	1964.5	2346.3	2747.7	3174.2
-40°	0.0	210.6	435.2	679.7	946.6	1226.8	1536.7	1872.3	2231.6	2615.3	3018.3
-42.5°	0.0	202.6	417.9	649.5	905.2	1173.5	1463.2	1775.5	2117.5	2479.3	2854.7
-45°	0.0	194.4	399.6	617.9	863.0	1117.6	1386.3	1678.8	2001.3	2337.1	2685.7
-47.5°	0.0	185.7	380.6	584.9	818.9	1059.3	1306.0	1585.0	1880.3	2189.4	2520.9
-50°	0.0	176.7	360.8	554.1	773.1	998.6	1231.6	1487.6	1754.7	2047.9	2350.1
-52.5°	0.0	167.3	340.3	523.3	725.6	935.8	1156.2	1386.7	1635.0	1901.6	2175.2
-55°	0.0	157.6	319.0	491.4	676.6	873.9	1078.3	1284.1	1516.1	1750.8	2007.6
-57.5°	0.0	147.7	297.1	458.6	626.0	810.7	998.1	1190.5	1393.7	1609.4	1835.6
-60°	0.0	137.4	274.6	424.8	574.4	745.8	916.3	1094.6	1271.5	1468.4	1665.7
-62.5°	0.0	126.9	253.6	390.2	528.3	679.3	836.6	996.3	1159.4	1324.1	1505.9
-65°	0.0	116.1	232.1	354.8	481.2	611.3	755.1	897.6	1044.9	1191.9	1342.9
-67.5°	0.0	105.2	210.2	318.7	433.1	546.7	672.1	800.9	928.4	1061.2	1191.9
-70°	0.0	94.0	187.8	282.0	384.1	485.6	587.7	702.6	816.2	928.4	1044.9
-72.5°	0.0	82.6	165.1	247.3	334.4	423.6	512.0	602.9	702.6	800.9	897.6
-75°	0.0	71.1	142.1	212.9	284.1	360.8	436.8	512.0	587.7	672.1	755.1
-77.5°	0.0	59.5	118.9	178.0	236.8	297.2	360.8	423.6	485.6	546.7	611.3
-80°	0.0	47.7	95.4	142.8	190.0	236.8	284.1	334.4	384.1	433.1	481.2
-82.5°	0.0	35.9	71.7	107.3	142.8	178.0	212.9	247.3	282.0	318.7	354.8
-85°	0.0	24.0	47.9	71.7	95.4	118.9	142.1	165.1	187.8	210.2	232.1
-87.5°	0.0	12.0	24.0	35.9	47.7	59.5	71.1	82.6	94.0	105.2	116.1
-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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**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°	126.9	137.4	147.7	157.6	167.3	176.7	185.7	194.4	202.6	210.6	218.1
85°	253.6	274.6	297.1	319.0	340.3	360.8	380.6	399.6	417.9	435.2	451.7
82.5°	390.2	424.8	458.6	491.4	523.3	554.1	584.9	617.9	649.5	679.7	708.3
80°	528.3	574.4	626.0	676.6	725.6	773.1	818.9	863.0	905.2	946.6	987.0
77.5°	679.3	745.8	810.7	873.9	935.8	998.6	1059.3	1117.6	1173.5	1226.8	1277.5
75°	836.6	916.3	998.1	1078.3	1156.2	1231.6	1306.0	1386.3	1463.2	1536.7	1606.6
72.5°	996.3	1094.6	1190.5	1284.1	1386.7	1487.6	1585.0	1678.8	1775.5	1872.3	1964.5
70°	1159.4	1271.5	1393.7	1516.1	1635.0	1754.7	1880.3	2001.3	2117.5	2231.6	2346.3
67.5°	1324.1	1468.4	1609.4	1750.8	1901.6	2047.9	2189.4	2337.1	2479.3	2615.3	2747.7
65°	1505.9	1665.7	1835.6	2007.6	2175.2	2350.1	2520.9	2685.7	2854.7	3018.3	3174.2
62.5°	1684.6	1878.2	2071.7	2266.5	2466.4	2660.5	2859.6	3055.5	3244.0	3438.1	3625.1
60°	1878.2	2093.1	2313.2	2536.6	2758.1	2986.6	3208.2	3435.6	3659.4	3874.9	4114.2
57.5°	2071.7	2313.2	2560.1	2809.0	3063.4	3314.8	3575.5	3827.8	4104.7	4377.3	4649.8
55°	2266.5	2536.6	2809.0	3089.1	3370.9	3660.1	3953.3	4271.0	4578.6	4927.1	5260.8
52.5°	2466.4	2758.1	3063.4	3370.9	3688.4	4019.8	4371.6	4738.2	5127.9	5519.2	5937.1
50°	2660.5	2986.6	3314.8	3660.1	4019.8	4405.3	4818.6	5249.5	5709.1	6176.4	6664.3
47.5°	2859.6	3208.2	3575.5	3953.3	4371.6	4818.6	5290.2	5804.7	6321.4	6889.5	7443.3
45°	3055.5	3435.6	3827.8	4271.0	4738.2	5249.5	5804.7	6370.0	7003.0	7626.9	8267.2
42.5°	3244.0	3659.4	4104.7	4578.6	5127.9	5709.1	6321.4	7003.0	7689.5	8394.4	9098.6
40°	3438.1	3874.9	4377.3	4927.1	5519.2	6176.4	6889.5	7626.9	8394.4	9167.5	9933.2
37.5°	3625.1	4114.2	4649.8	5260.8	5937.1	6664.3	7443.3	8267.2	9098.6	9933.2	10783.0
35°	3802.6	4341.6	4942.9	5607.0	6336.0	7159.0	8014.8	8893.1	9792.9	10707.4	11625.5
32.5°	3987.1	4556.6	5220.3	5957.0	6767.2	7641.5	8562.3	9515.0	10482.2	11460.6	12470.8
30°	4170.6	4792.2	5493.6	6286.6	7178.8	8123.2	9104.3	10111.6	11146.1	12218.6	13292.6
27.5°	4341.6	5014.6	5776.4	6629.1	7571.0	8574.9	9620.7	10695.7	11804.0	12940.3	14079.4
25°	4499.5	5220.3	6038.2	6958.3	7958.9	9013.4	10108.5	11240.7	12430.5	13631.0	14842.8
22.5°	4656.8	5409.3	6278.1	7260.4	8315.2	9423.3	10575.0	11773.8	13017.4	14273.3	15559.3
20°	4811.0	5607.0	6514.5	7538.4	8638.5	9795.9	10999.7	12264.9	13562.3	14884.7	16234.8
17.5°	4948.2	5783.1	6737.7	7803.4	8942.0	10137.6	11384.7	12706.0	14052.7	15436.3	16853.7
15°	5068.0	5937.1	6933.1	8035.5	9210.8	10445.6	11742.7	13103.7	14495.3	15929.5	17402.9
12.5°	5170.1	6068.3	7099.7	8233.6	9440.6	10709.2	12049.5	13446.3	14882.4	16366.1	17886.8
10°	5254.1	6176.4	7236.9	8396.9	9630.1	10926.8	12303.1	13729.9	15203.5	16728.8	18289.8
7.5°	5319.7	6260.9	7344.3	8524.7	9778.6	11097.4	12502.1	13952.7	15456.0	17014.6	18607.8
5°	5366.8	6321.4	7421.3	8616.5	9885.2	11220.0	12645.2	14113.0	15637.8	17220.7	18837.5
2.5°	5395.1	6357.8	7467.6	8671.7	9949.4	11293.8	12731.4	14209.7	15747.6	17345.2	18976.4
0°	5404.5	6370.0	7483.1	8690.1	9970.8	11318.5	12760.2	14242.0	15784.3	17386.8	19022.9
-2.5°	5395.1	6357.8	7467.6	8671.7	9949.4	11293.8	12731.4	14209.7	15747.6	17345.2	18976.4
-5°	5366.8	6321.4	7421.3	8616.5	9885.2	11220.0	12645.2	14113.0	15637.8	17220.7	18837.5
-7.5°	5319.7	6260.9	7344.3	8524.7	9778.6	11097.4	12502.1	13952.7	15456.0	17014.6	18607.8
-10°	5254.1	6176.4	7236.9	8396.9	9630.1	10926.8	12303.1	13729.9	15203.5	16728.8	18289.8
-12.5°	5170.1	6068.3	7099.7	8233.6	9440.6	10709.2	12049.5	13446.3	14882.4	16366.1	17886.8
-15°	5068.0	5937.1	6933.1	8035.5	9210.8	10445.6	11742.7	13103.7	14495.3	15929.5	17402.9
-17.5°	4948.2	5783.1	6737.7	7803.4	8942.0	10137.6	11384.7	12706.0	14052.7	15436.3	16853.7
-20°	4811.0	5607.0	6514.5	7538.4	8638.5	9795.9	10999.7	12264.9	13562.3	14884.7	16234.8



REPORT NUMBER: P624796 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-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°	4656.8	5409.3	6278.1	7260.4	8315.2	9423.3	10575.0	11773.8	13017.4	14273.3	15559.3
-25°	4499.5	5220.3	6038.2	6958.3	7958.9	9013.4	10108.5	11240.7	12430.5	13631.0	14842.8
-27.5°	4341.6	5014.6	5776.4	6629.1	7571.0	8574.9	9620.7	10695.7	11804.0	12940.3	14079.4
-30°	4170.6	4792.2	5493.6	6286.6	7178.8	8123.2	9104.3	10111.6	11146.1	12218.6	13292.6
-32.5°	3987.1	4556.6	5220.3	5957.0	6767.2	7641.5	8562.3	9515.0	10482.2	11460.6	12470.8
-35°	3802.6	4341.6	4942.9	5607.0	6336.0	7159.0	8014.8	8893.1	9792.9	10707.4	11625.5
-37.5°	3625.1	4114.2	4649.8	5260.8	5937.1	6664.3	7443.3	8267.2	9098.6	9933.2	10783.0
-40°	3438.1	3874.9	4377.3	4927.1	5519.2	6176.4	6889.5	7626.9	8394.4	9167.5	9933.2
-42.5°	3244.0	3659.4	4104.7	4578.6	5127.9	5709.1	6321.4	7003.0	7689.5	8394.4	9098.6
-45°	3055.5	3435.6	3827.8	4271.0	4738.2	5249.5	5804.7	6370.0	7003.0	7626.9	8267.2
-47.5°	2859.6	3208.2	3575.5	3953.3	4371.6	4818.6	5290.2	5804.7	6321.4	6889.5	7443.3
-50°	2660.5	2986.6	3314.8	3660.1	4019.8	4405.3	4818.6	5249.5	5709.1	6176.4	6664.3
-52.5°	2466.4	2758.1	3063.4	3370.9	3688.4	4019.8	4371.6	4738.2	5127.9	5519.2	5937.1
-55°	2266.5	2536.6	2809.0	3089.1	3370.9	3660.1	3953.3	4271.0	4578.6	4927.1	5260.8
-57.5°	2071.7	2313.2	2560.1	2809.0	3063.4	3314.8	3575.5	3827.8	4104.7	4377.3	4649.8
-60°	1878.2	2093.1	2313.2	2536.6	2758.1	2986.6	3208.2	3435.6	3659.4	3874.9	4114.2
-62.5°	1684.6	1878.2	2071.7	2266.5	2466.4	2660.5	2859.6	3055.5	3244.0	3438.1	3625.1
-65°	1505.9	1665.7	1835.6	2007.6	2175.2	2350.1	2520.9	2685.7	2854.7	3018.3	3174.2
-67.5°	1324.1	1468.4	1609.4	1750.8	1901.6	2047.9	2189.4	2337.1	2479.3	2615.3	2747.7
-70°	1159.4	1271.5	1393.7	1516.1	1635.0	1754.7	1880.3	2001.3	2117.5	2231.6	2346.3
-72.5°	996.3	1094.6	1190.5	1284.1	1386.7	1487.6	1585.0	1678.8	1775.5	1872.3	1964.5
-75°	836.6	916.3	998.1	1078.3	1156.2	1231.6	1306.0	1386.3	1463.2	1536.7	1606.6
-77.5°	679.3	745.8	810.7	873.9	935.8	998.6	1059.3	1117.6	1173.5	1226.8	1277.5
-80°	528.3	574.4	626.0	676.6	725.6	773.1	818.9	863.0	905.2	946.6	987.0
-82.5°	390.2	424.8	458.6	491.4	523.3	554.1	584.9	617.9	649.5	679.7	708.3
-85°	253.6	274.6	297.1	319.0	340.3	360.8	380.6	399.6	417.9	435.2	451.7
-87.5°	126.9	137.4	147.7	157.6	167.3	176.7	185.7	194.4	202.6	210.6	218.1
-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: P624796 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-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°	225.2	231.8	238.1	243.8	249.1	254.0	258.3	262.2	265.5	268.4	270.7
85°	467.3	482.0	495.7	508.4	520.0	530.6	540.2	548.7	556.1	562.4	567.5
82.5°	735.4	760.8	784.5	806.6	826.8	845.3	861.9	876.6	889.5	900.4	909.3
80°	1025.3	1061.2	1094.8	1126.0	1154.7	1180.8	1204.3	1225.2	1243.3	1258.8	1271.5
77.5°	1330.0	1381.6	1429.9	1474.7	1515.9	1553.5	1587.3	1617.4	1643.5	1665.7	1684.0
75°	1672.7	1737.2	1802.8	1863.6	1919.6	1970.7	2016.7	2057.5	2093.1	2123.4	2148.2
72.5°	2051.7	2133.8	2212.2	2289.6	2360.9	2425.9	2484.6	2536.6	2582.0	2620.6	2652.3
70°	2454.9	2557.2	2653.0	2744.6	2833.1	2913.8	2986.6	3051.3	3107.6	3155.6	3195.0
67.5°	2880.1	3004.9	3121.8	3230.6	3336.3	3435.6	3525.2	3604.9	3674.3	3733.5	3782.1
65°	3326.9	3478.2	3620.1	3752.2	3874.9	4004.8	4122.1	4226.5	4317.6	4395.1	4458.9
62.5°	3802.6	3987.1	4170.6	4341.6	4499.5	4656.8	4811.0	4948.2	5068.0	5170.1	5254.1
60°	4341.6	4556.6	4792.2	5014.6	5220.3	5409.3	5607.0	5783.1	5937.1	6068.3	6176.4
57.5°	4942.9	5220.3	5493.6	5776.4	6038.2	6278.1	6514.5	6737.7	6933.1	7099.7	7236.9
55°	5607.0	5957.0	6286.6	6629.1	6958.3	7260.4	7538.4	7803.4	8035.5	8233.6	8396.9
52.5°	6336.0	6767.2	7178.8	7571.0	7958.9	8315.2	8638.5	8942.0	9210.8	9440.6	9630.1
50°	7159.0	7641.5	8123.2	8574.9	9013.4	9423.3	9795.9	10137.6	10445.6	10709.2	10926.8
47.5°	8014.8	8562.3	9104.3	9620.7	10108.5	10575.0	10999.7	11384.7	11742.7	12049.5	12303.1
45°	8893.1	9515.0	10111.6	10695.7	11240.7	11773.8	12264.9	12706.0	13103.7	13446.3	13729.9
42.5°	9792.9	10482.2	11146.1	11804.0	12430.5	13017.4	13562.3	14052.7	14495.3	14882.4	15203.5
40°	10707.4	11460.6	12218.6	12940.3	13631.0	14273.3	14884.7	15436.3	15929.5	16366.1	16728.8
37.5°	11625.5	12470.8	13292.6	14079.4	14842.8	15559.3	16234.8	16853.7	17402.9	17886.8	18289.8
35°	12555.5	13470.7	14357.1	15230.2	16064.2	16862.9	17603.8	18286.1	18893.0	19421.9	19864.4
32.5°	13470.7	14452.7	15426.4	16377.8	17291.4	18163.4	18972.2	19714.5	20377.6	20959.6	21452.1
30°	14357.1	15426.4	16483.2	17511.3	18506.0	19445.1	20321.8	21133.0	21866.7	22505.2	23037.3
27.5°	15230.2	16377.8	17511.3	18621.3	19685.7	20695.2	21656.5	22538.1	23325.1	24015.3	24589.1
25°	16064.2	17291.4	18506.0	19685.7	20823.6	21923.3	22948.5	23891.9	24735.3	25477.8	26101.2
22.5°	16862.9	18163.4	19445.1	20695.2	21923.3	23087.3	24179.3	25181.8	26089.8	26890.1	27562.1
20°	17603.8	18972.2	20321.8	21656.5	22948.5	24179.3	25333.2	26403.2	27378.3	28220.8	28938.0
17.5°	18286.1	19714.5	21133.0	22538.1	23891.9	25181.8	26403.2	27539.3	28562.3	29439.2	30189.8
15°	18893.0	20377.6	21866.7	23325.1	24735.3	26089.8	27378.3	28562.3	29611.1	30526.0	31282.7
12.5°	19421.9	20959.6	22505.2	24015.3	25477.8	26890.1	28220.8	29439.2	30526.0	31466.5	32220.6
10°	19864.4	21452.1	23037.3	24589.1	26101.2	27562.1	28938.0	30189.8	31282.7	32220.6	33000.0
7.5°	20214.5	21842.8	23460.7	25047.7	26599.9	28093.2	29488.1	30752.7	31869.8	32829.9	33627.3
5°	20467.7	22126.1	23768.6	25382.3	26965.3	28484.7	29896.7	31172.1	32295.2	33254.1	34027.3
2.5°	20621.1	22297.8	23955.7	25586.1	27188.6	28724.9	30148.9	31433.0	32563.2	33526.2	34291.5
0°	20672.4	22355.4	24018.4	25654.5	27263.7	28805.9	30234.2	31521.6	32654.8	33620.3	34384.7
-2.5°	20621.1	22297.8	23955.7	25586.1	27188.6	28724.9	30148.9	31433.0	32563.2	33526.2	34291.5
-5°	20467.7	22126.1	23768.6	25382.3	26965.3	28484.7	29896.7	31172.1	32295.2	33254.1	34027.3
-7.5°	20214.5	21842.8	23460.7	25047.7	26599.9	28093.2	29488.1	30752.7	31869.8	32829.9	33627.3
-10°	19864.4	21452.1	23037.3	24589.1	26101.2	27562.1	28938.0	30189.8	31282.7	32220.6	33000.0
-12.5°	19421.9	20959.6	22505.2	24015.3	25477.8	26890.1	28220.8	29439.2	30526.0	31466.5	32220.6
-15°	18893.0	20377.6	21866.7	23325.1	24735.3	26089.8	27378.3	28562.3	29611.1	30526.0	31282.7
-17.5°	18286.1	19714.5	21133.0	22538.1	23891.9	25181.8	26403.2	27539.3	28562.3	29439.2	30189.8
-20°	17603.8	18972.2	20321.8	21656.5	22948.5	24179.3	25333.2	26403.2	27378.3	28220.8	28938.0



REPORT NUMBER: P624796 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-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°	16862.9	18163.4	19445.1	20695.2	21923.3	23087.3	24179.3	25181.8	26089.8	26890.1	27562.1
-25°	16064.2	17291.4	18506.0	19685.7	20823.6	21923.3	22948.5	23891.9	24735.3	25477.8	26101.2
-27.5°	15230.2	16377.8	17511.3	18621.3	19685.7	20695.2	21656.5	22538.1	23325.1	24015.3	24589.1
-30°	14357.1	15426.4	16483.2	17511.3	18506.0	19445.1	20321.8	21133.0	21866.7	22505.2	23037.3
-32.5°	13470.7	14452.7	15426.4	16377.8	17291.4	18163.4	18972.2	19714.5	20377.6	20959.6	21452.1
-35°	12555.5	13470.7	14357.1	15230.2	16064.2	16862.9	17603.8	18286.1	18893.0	19421.9	19864.4
-37.5°	11625.5	12470.8	13292.6	14079.4	14842.8	15559.3	16234.8	16853.7	17402.9	17886.8	18289.8
-40°	10707.4	11460.6	12218.6	12940.3	13631.0	14273.3	14884.7	15436.3	15929.5	16366.1	16728.8
-42.5°	9792.9	10482.2	11146.1	11804.0	12430.5	13017.4	13562.3	14052.7	14495.3	14882.4	15203.5
-45°	8893.1	9515.0	10111.6	10695.7	11240.7	11773.8	12264.9	12706.0	13103.7	13446.3	13729.9
-47.5°	8014.8	8562.3	9104.3	9620.7	10108.5	10575.0	10999.7	11384.7	11742.7	12049.5	12303.1
-50°	7159.0	7641.5	8123.2	8574.9	9013.4	9423.3	9795.9	10137.6	10445.6	10709.2	10926.8
-52.5°	6336.0	6767.2	7178.8	7571.0	7958.9	8315.2	8638.5	8942.0	9210.8	9440.6	9630.1
-55°	5607.0	5957.0	6286.6	6629.1	6958.3	7260.4	7538.4	7803.4	8035.5	8233.6	8396.9
-57.5°	4942.9	5220.3	5493.6	5776.4	6038.2	6278.1	6514.5	6737.7	6933.1	7099.7	7236.9
-60°	4341.6	4556.6	4792.2	5014.6	5220.3	5409.3	5607.0	5783.1	5937.1	6068.3	6176.4
-62.5°	3802.6	3987.1	4170.6	4341.6	4499.5	4656.8	4811.0	4948.2	5068.0	5170.1	5254.1
-65°	3326.9	3478.2	3620.1	3752.2	3874.9	4004.8	4122.1	4226.5	4317.6	4395.1	4458.9
-67.5°	2880.1	3004.9	3121.8	3230.6	3336.3	3435.6	3525.2	3604.9	3674.3	3733.5	3782.1
-70°	2454.9	2557.2	2653.0	2744.6	2833.1	2913.8	2986.6	3051.3	3107.6	3155.6	3195.0
-72.5°	2051.7	2133.8	2212.2	2289.6	2360.9	2425.9	2484.6	2536.6	2582.0	2620.6	2652.3
-75°	1672.7	1737.2	1802.8	1863.6	1919.6	1970.7	2016.7	2057.5	2093.1	2123.4	2148.2
-77.5°	1330.0	1381.6	1429.9	1474.7	1515.9	1553.5	1587.3	1617.4	1643.5	1665.7	1684.0
-80°	1025.3	1061.2	1094.8	1126.0	1154.7	1180.8	1204.3	1225.2	1243.3	1258.8	1271.5
-82.5°	735.4	760.8	784.5	806.6	826.8	845.3	861.9	876.6	889.5	900.4	909.3
-85°	467.3	482.0	495.7	508.4	520.0	530.6	540.2	548.7	556.1	562.4	567.5
-87.5°	225.2	231.8	238.1	243.8	249.1	254.0	258.3	262.2	265.5	268.4	270.7
-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: P624796 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-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°	272.5	273.9	274.6	274.9	274.6	273.9	272.5	270.7	268.4	265.5	262.2
85°	571.5	574.4	576.1	576.7	576.1	574.4	571.5	567.5	562.4	556.1	548.7
82.5°	916.3	921.3	924.3	925.3	924.3	921.3	916.3	909.3	900.4	889.5	876.6
80°	1281.4	1288.4	1292.7	1294.1	1292.7	1288.4	1281.4	1271.5	1258.8	1243.3	1225.2
77.5°	1698.2	1708.4	1714.6	1716.6	1714.6	1708.4	1698.2	1684.0	1665.7	1643.5	1617.4
75°	2167.6	2181.5	2189.8	2192.6	2189.8	2181.5	2167.6	2148.2	2123.4	2093.1	2057.5
72.5°	2677.0	2694.7	2705.3	2708.9	2705.3	2694.7	2677.0	2652.3	2620.6	2582.0	2536.6
70°	3225.8	3247.8	3261.1	3265.5	3261.1	3247.8	3225.8	3195.0	3155.6	3107.6	3051.3
67.5°	3820.0	3847.2	3863.5	3869.0	3863.5	3847.2	3820.0	3782.1	3733.5	3674.3	3604.9
65°	4508.7	4544.4	4565.8	4573.0	4565.8	4544.4	4508.7	4458.9	4395.1	4317.6	4226.5
62.5°	5319.7	5366.8	5395.1	5404.5	5395.1	5366.8	5319.7	5254.1	5170.1	5068.0	4948.2
60°	6260.9	6321.4	6357.8	6370.0	6357.8	6321.4	6260.9	6176.4	6068.3	5937.1	5783.1
57.5°	7344.3	7421.3	7467.6	7483.1	7467.6	7421.3	7344.3	7236.9	7099.7	6933.1	6737.7
55°	8524.7	8616.5	8671.7	8690.1	8671.7	8616.5	8524.7	8396.9	8233.6	8035.5	7803.4
52.5°	9778.6	9885.2	9949.4	9970.8	9949.4	9885.2	9778.6	9630.1	9440.6	9210.8	8942.0
50°	11097.4	11220.0	11293.8	11318.5	11293.8	11220.0	11097.4	10926.8	10709.2	10445.6	10137.6
47.5°	12502.1	12645.2	12731.4	12760.2	12731.4	12645.2	12502.1	12303.1	12049.5	11742.7	11384.7
45°	13952.7	14113.0	14209.7	14242.0	14209.7	14113.0	13952.7	13729.9	13446.3	13103.7	12706.0
42.5°	15456.0	15637.8	15747.6	15784.3	15747.6	15637.8	15456.0	15203.5	14882.4	14495.3	14052.7
40°	17014.6	17220.7	17345.2	17386.8	17345.2	17220.7	17014.6	16728.8	16366.1	15929.5	15436.3
37.5°	18607.8	18837.5	18976.4	19022.9	18976.4	18837.5	18607.8	18289.8	17886.8	17402.9	16853.7
35°	20214.5	20467.7	20621.1	20672.4	20621.1	20467.7	20214.5	19864.4	19421.9	18893.0	18286.1
32.5°	21842.8	22126.1	22297.8	22355.4	22297.8	22126.1	21842.8	21452.1	20959.6	20377.6	19714.5
30°	23460.7	23768.6	23955.7	24018.4	23955.7	23768.6	23460.7	23037.3	22505.2	21866.7	21133.0
27.5°	25047.7	25382.3	25586.1	25654.5	25586.1	25382.3	25047.7	24589.1	24015.3	23325.1	22538.1
25°	26599.9	26965.3	27188.6	27263.7	27188.6	26965.3	26599.9	26101.2	25477.8	24735.3	23891.9
22.5°	28093.2	28484.7	28724.9	28805.9	28724.9	28484.7	28093.2	27562.1	26890.1	26089.8	25181.8
20°	29488.1	29896.7	30148.9	30234.2	30148.9	29896.7	29488.1	28938.0	28220.8	27378.3	26403.2
17.5°	30752.7	31172.1	31433.0	31521.6	31433.0	31172.1	30752.7	30189.8	29439.2	28562.3	27539.3
15°	31869.8	32295.2	32563.2	32654.8	32563.2	32295.2	31869.8	31282.7	30526.0	29611.1	28562.3
12.5°	32829.9	33254.1	33526.2	33620.3	33526.2	33254.1	32829.9	32220.6	31466.5	30526.0	29439.2
10°	33627.3	34027.3	34291.5	34384.7	34291.5	34027.3	33627.3	33000.0	32220.6	31282.7	30189.8
7.5°	34203.9	34603.4	34845.9	34934.6	34845.9	34603.4	34203.9	33627.3	32829.9	31869.8	30752.7
5°	34603.4	35006.7	35252.4	35350.3	35252.4	35006.7	34603.4	34027.3	33254.1	32295.2	31172.1
2.5°	34845.9	35252.4	35519.2	35638.6	35519.2	35252.4	34845.9	34291.5	33526.2	32563.2	31433.0
0°	34934.6	35350.3	35638.6	35719.1	35638.6	35350.3	34934.6	34384.7	33620.3	32654.8	31521.6
-2.5°	34845.9	35252.4	35519.2	35638.6	35519.2	35252.4	34845.9	34291.5	33526.2	32563.2	31433.0
-5°	34603.4	35006.7	35252.4	35350.3	35252.4	35006.7	34603.4	34027.3	33254.1	32295.2	31172.1
-7.5°	34203.9	34603.4	34845.9	34934.6	34845.9	34603.4	34203.9	33627.3	32829.9	31869.8	30752.7
-10°	33627.3	34027.3	34291.5	34384.7	34291.5	34027.3	33627.3	33000.0	32220.6	31282.7	30189.8
-12.5°	32829.9	33254.1	33526.2	33620.3	33526.2	33254.1	32829.9	32220.6	31466.5	30526.0	29439.2
-15°	31869.8	32295.2	32563.2	32654.8	32563.2	32295.2	31869.8	31282.7	30526.0	29611.1	28562.3
-17.5°	30752.7	31172.1	31433.0	31521.6	31433.0	31172.1	30752.7	30189.8	29439.2	28562.3	27539.3
-20°	29488.1	29896.7	30148.9	30234.2	30148.9	29896.7	29488.1	28938.0	28220.8	27378.3	26403.2



REPORT NUMBER: P624796 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-VN-08-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°	28093.2	28484.7	28724.9	28805.9	28724.9	28484.7	28093.2	27562.1	26890.1	26089.8	25181.8
-25°	26599.9	26965.3	27188.6	27263.7	27188.6	26965.3	26599.9	26101.2	25477.8	24735.3	23891.9
-27.5°	25047.7	25382.3	25586.1	25654.5	25586.1	25382.3	25047.7	24589.1	24015.3	23325.1	22538.1
-30°	23460.7	23768.6	23955.7	24018.4	23955.7	23768.6	23460.7	23037.3	22505.2	21866.7	21133.0
-32.5°	21842.8	22126.1	22297.8	22355.4	22297.8	22126.1	21842.8	21452.1	20959.6	20377.6	19714.5
-35°	20214.5	20467.7	20621.1	20672.4	20621.1	20467.7	20214.5	19864.4	19421.9	18893.0	18286.1
-37.5°	18607.8	18837.5	18976.4	19022.9	18976.4	18837.5	18607.8	18289.8	17886.8	17402.9	16853.7
-40°	17014.6	17220.7	17345.2	17386.8	17345.2	17220.7	17014.6	16728.8	16366.1	15929.5	15436.3
-42.5°	15456.0	15637.8	15747.6	15784.3	15747.6	15637.8	15456.0	15203.5	14882.4	14495.3	14052.7
-45°	13952.7	14113.0	14209.7	14242.0	14209.7	14113.0	13952.7	13729.9	13446.3	13103.7	12706.0
-47.5°	12502.1	12645.2	12731.4	12760.2	12731.4	12645.2	12502.1	12303.1	12049.5	11742.7	11384.7
-50°	11097.4	11220.0	11293.8	11318.5	11293.8	11220.0	11097.4	10926.8	10709.2	10445.6	10137.6
-52.5°	9778.6	9885.2	9949.4	9970.8	9949.4	9885.2	9778.6	9630.1	9440.6	9210.8	8942.0
-55°	8524.7	8616.5	8671.7	8690.1	8671.7	8616.5	8524.7	8396.9	8233.6	8035.5	7803.4
-57.5°	7344.3	7421.3	7467.6	7483.1	7467.6	7421.3	7344.3	7236.9	7099.7	6933.1	6737.7
-60°	6260.9	6321.4	6357.8	6370.0	6357.8	6321.4	6260.9	6176.4	6068.3	5937.1	5783.1
-62.5°	5319.7	5366.8	5395.1	5404.5	5395.1	5366.8	5319.7	5254.1	5170.1	5068.0	4948.2
-65°	4508.7	4544.4	4565.8	4573.0	4565.8	4544.4	4508.7	4458.9	4395.1	4317.6	4226.5
-67.5°	3820.0	3847.2	3863.5	3869.0	3863.5	3847.2	3820.0	3782.1	3733.5	3674.3	3604.9
-70°	3225.8	3247.8	3261.1	3265.5	3261.1	3247.8	3225.8	3195.0	3155.6	3107.6	3051.3
-72.5°	2677.0	2694.7	2705.3	2708.9	2705.3	2694.7	2677.0	2652.3	2620.6	2582.0	2536.6
-75°	2167.6	2181.5	2189.8	2192.6	2189.8	2181.5	2167.6	2148.2	2123.4	2093.1	2057.5
-77.5°	1698.2	1708.4	1714.6	1716.6	1714.6	1708.4	1698.2	1684.0	1665.7	1643.5	1617.4
-80°	1281.4	1288.4	1292.7	1294.1	1292.7	1288.4	1281.4	1271.5	1258.8	1243.3	1225.2
-82.5°	916.3	921.3	924.3	925.3	924.3	921.3	916.3	909.3	900.4	889.5	876.6
-85°	571.5	574.4	576.1	576.7	576.1	574.4	571.5	567.5	562.4	556.1	548.7
-87.5°	272.5	273.9	274.6	274.9	274.6	273.9	272.5	270.7	268.4	265.5	262.2
-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: P624796 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-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°	258.3	254.0	249.1	243.8	238.1	231.8	225.2	218.1	210.6	202.6	194.4
85°	540.2	530.6	520.0	508.4	495.7	482.0	467.3	451.7	435.2	417.9	399.6
82.5°	861.9	845.3	826.8	806.6	784.5	760.8	735.4	708.3	679.7	649.5	617.9
80°	1204.3	1180.8	1154.7	1126.0	1094.8	1061.2	1025.3	987.0	946.6	905.2	863.0
77.5°	1587.3	1553.5	1515.9	1474.7	1429.9	1381.6	1330.0	1277.5	1226.8	1173.5	1117.6
75°	2016.7	1970.7	1919.6	1863.6	1802.8	1737.2	1672.7	1606.6	1536.7	1463.2	1386.3
72.5°	2484.6	2425.9	2360.9	2289.6	2212.2	2133.8	2051.7	1964.5	1872.3	1775.5	1678.8
70°	2986.6	2913.8	2833.1	2744.6	2653.0	2557.2	2454.9	2346.3	2231.6	2117.5	2001.3
67.5°	3525.2	3435.6	3336.3	3230.6	3121.8	3004.9	2880.1	2747.7	2615.3	2479.3	2337.1
65°	4122.1	4004.8	3874.9	3752.2	3620.1	3478.2	3326.9	3174.2	3018.3	2854.7	2685.7
62.5°	4811.0	4656.8	4499.5	4341.6	4170.6	3987.1	3802.6	3625.1	3438.1	3244.0	3055.5
60°	5607.0	5409.3	5220.3	5014.6	4792.2	4556.6	4341.6	4114.2	3874.9	3659.4	3435.6
57.5°	6514.5	6278.1	6038.2	5776.4	5493.6	5220.3	4942.9	4649.8	4377.3	4104.7	3827.8
55°	7538.4	7260.4	6958.3	6629.1	6286.6	5957.0	5607.0	5260.8	4927.1	4578.6	4271.0
52.5°	8638.5	8315.2	7958.9	7571.0	7178.8	6767.2	6336.0	5937.1	5519.2	5127.9	4738.2
50°	9795.9	9423.3	9013.4	8574.9	8123.2	7641.5	7159.0	6664.3	6176.4	5709.1	5249.5
47.5°	10999.7	10575.0	10108.5	9620.7	9104.3	8562.3	8014.8	7443.3	6889.5	6321.4	5804.7
45°	12264.9	11773.8	11240.7	10695.7	10111.6	9515.0	8893.1	8267.2	7626.9	7003.0	6370.0
42.5°	13562.3	13017.4	12430.5	11804.0	11146.1	10482.2	9792.9	9098.6	8394.4	7689.5	7003.0
40°	14884.7	14273.3	13631.0	12940.3	12218.6	11460.6	10707.4	9933.2	9167.5	8394.4	7626.9
37.5°	16234.8	15559.3	14842.8	14079.4	13292.6	12470.8	11625.5	10783.0	9933.2	9098.6	8267.2
35°	17603.8	16862.9	16064.2	15230.2	14357.1	13470.7	12555.5	11625.5	10707.4	9792.9	8893.1
32.5°	18972.2	18163.4	17291.4	16377.8	15426.4	14452.7	13470.7	12470.8	11460.6	10482.2	9515.0
30°	20321.8	19445.1	18506.0	17511.3	16483.2	15426.4	14357.1	13292.6	12218.6	11146.1	10111.6
27.5°	21656.5	20695.2	19685.7	18621.3	17511.3	16377.8	15230.2	14079.4	12940.3	11804.0	10695.7
25°	22948.5	21923.3	20823.6	19685.7	18506.0	17291.4	16064.2	14842.8	13631.0	12430.5	11240.7
22.5°	24179.3	23087.3	21923.3	20695.2	19445.1	18163.4	16862.9	15559.3	14273.3	13017.4	11773.8
20°	25333.2	24179.3	22948.5	21656.5	20321.8	18972.2	17603.8	16234.8	14884.7	13562.3	12264.9
17.5°	26403.2	25181.8	23891.9	22538.1	21133.0	19714.5	18286.1	16853.7	15436.3	14052.7	12706.0
15°	27378.3	26089.8	24735.3	23325.1	21866.7	20377.6	18893.0	17402.9	15929.5	14495.3	13103.7
12.5°	28220.8	26890.1	25477.8	24015.3	22505.2	20959.6	19421.9	17886.8	16366.1	14882.4	13446.3
10°	28938.0	27562.1	26101.2	24589.1	23037.3	21452.1	19864.4	18289.8	16728.8	15203.5	13729.9
7.5°	29488.1	28093.2	26599.9	25047.7	23460.7	21842.8	20214.5	18607.8	17014.6	15456.0	13952.7
5°	29896.7	28484.7	26965.3	25382.3	23768.6	22126.1	20467.7	18837.5	17220.7	15637.8	14113.0
2.5°	30148.9	28724.9	27188.6	25586.1	23955.7	22297.8	20621.1	18976.4	17345.2	15747.6	14209.7
0°	30234.2	28805.9	27263.7	25654.5	24018.4	22355.4	20672.4	19022.9	17386.8	15784.3	14242.0
-2.5°	30148.9	28724.9	27188.6	25586.1	23955.7	22297.8	20621.1	18976.4	17345.2	15747.6	14209.7
-5°	29896.7	28484.7	26965.3	25382.3	23768.6	22126.1	20467.7	18837.5	17220.7	15637.8	14113.0
-7.5°	29488.1	28093.2	26599.9	25047.7	23460.7	21842.8	20214.5	18607.8	17014.6	15456.0	13952.7
-10°	28938.0	27562.1	26101.2	24589.1	23037.3	21452.1	19864.4	18289.8	16728.8	15203.5	13729.9
-12.5°	28220.8	26890.1	25477.8	24015.3	22505.2	20959.6	19421.9	17886.8	16366.1	14882.4	13446.3
-15°	27378.3	26089.8	24735.3	23325.1	21866.7	20377.6	18893.0	17402.9	15929.5	14495.3	13103.7
-17.5°	26403.2	25181.8	23891.9	22538.1	21133.0	19714.5	18286.1	16853.7	15436.3	14052.7	12706.0
-20°	25333.2	24179.3	22948.5	21656.5	20321.8	18972.2	17603.8	16234.8	14884.7	13562.3	12264.9



REPORT NUMBER: P624796 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-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°	24179.3	23087.3	21923.3	20695.2	19445.1	18163.4	16862.9	15559.3	14273.3	13017.4	11773.8
-25°	22948.5	21923.3	20823.6	19685.7	18506.0	17291.4	16064.2	14842.8	13631.0	12430.5	11240.7
-27.5°	21656.5	20695.2	19685.7	18621.3	17511.3	16377.8	15230.2	14079.4	12940.3	11804.0	10695.7
-30°	20321.8	19445.1	18506.0	17511.3	16483.2	15426.4	14357.1	13292.6	12218.6	11146.1	10111.6
-32.5°	18972.2	18163.4	17291.4	16377.8	15426.4	14452.7	13470.7	12470.8	11460.6	10482.2	9515.0
-35°	17603.8	16862.9	16064.2	15230.2	14357.1	13470.7	12555.5	11625.5	10707.4	9792.9	8893.1
-37.5°	16234.8	15559.3	14842.8	14079.4	13292.6	12470.8	11625.5	10783.0	9933.2	9098.6	8267.2
-40°	14884.7	14273.3	13631.0	12940.3	12218.6	11460.6	10707.4	9933.2	9167.5	8394.4	7626.9
-42.5°	13562.3	13017.4	12430.5	11804.0	11146.1	10482.2	9792.9	9098.6	8394.4	7689.5	7003.0
-45°	12264.9	11773.8	11240.7	10695.7	10111.6	9515.0	8893.1	8267.2	7626.9	7003.0	6370.0
-47.5°	10999.7	10575.0	10108.5	9620.7	9104.3	8562.3	8014.8	7443.3	6889.5	6321.4	5804.7
-50°	9795.9	9423.3	9013.4	8574.9	8123.2	7641.5	7159.0	6664.3	6176.4	5709.1	5249.5
-52.5°	8638.5	8315.2	7958.9	7571.0	7178.8	6767.2	6336.0	5937.1	5519.2	5127.9	4738.2
-55°	7538.4	7260.4	6958.3	6629.1	6286.6	5957.0	5607.0	5260.8	4927.1	4578.6	4271.0
-57.5°	6514.5	6278.1	6038.2	5776.4	5493.6	5220.3	4942.9	4649.8	4377.3	4104.7	3827.8
-60°	5607.0	5409.3	5220.3	5014.6	4792.2	4556.6	4341.6	4114.2	3874.9	3659.4	3435.6
-62.5°	4811.0	4656.8	4499.5	4341.6	4170.6	3987.1	3802.6	3625.1	3438.1	3244.0	3055.5
-65°	4122.1	4004.8	3874.9	3752.2	3620.1	3478.2	3326.9	3174.2	3018.3	2854.7	2685.7
-67.5°	3525.2	3435.6	3336.3	3230.6	3121.8	3004.9	2880.1	2747.7	2615.3	2479.3	2337.1
-70°	2986.6	2913.8	2833.1	2744.6	2653.0	2557.2	2454.9	2346.3	2231.6	2117.5	2001.3
-72.5°	2484.6	2425.9	2360.9	2289.6	2212.2	2133.8	2051.7	1964.5	1872.3	1775.5	1678.8
-75°	2016.7	1970.7	1919.6	1863.6	1802.8	1737.2	1672.7	1606.6	1536.7	1463.2	1386.3
-77.5°	1587.3	1553.5	1515.9	1474.7	1429.9	1381.6	1330.0	1277.5	1226.8	1173.5	1117.6
-80°	1204.3	1180.8	1154.7	1126.0	1094.8	1061.2	1025.3	987.0	946.6	905.2	863.0
-82.5°	861.9	845.3	826.8	806.6	784.5	760.8	735.4	708.3	679.7	649.5	617.9
-85°	540.2	530.6	520.0	508.4	495.7	482.0	467.3	451.7	435.2	417.9	399.6
-87.5°	258.3	254.0	249.1	243.8	238.1	231.8	225.2	218.1	210.6	202.6	194.4
-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: P624796 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-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°	185.7	176.7	167.3	157.6	147.7	137.4	126.9	116.1	105.2	94.0	82.6
85°	380.6	360.8	340.3	319.0	297.1	274.6	253.6	232.1	210.2	187.8	165.1
82.5°	584.9	554.1	523.3	491.4	458.6	424.8	390.2	354.8	318.7	282.0	247.3
80°	818.9	773.1	725.6	676.6	626.0	574.4	528.3	481.2	433.1	384.1	334.4
77.5°	1059.3	998.6	935.8	873.9	810.7	745.8	679.3	611.3	546.7	485.6	423.6
75°	1306.0	1231.6	1156.2	1078.3	998.1	916.3	836.6	755.1	672.1	587.7	512.0
72.5°	1585.0	1487.6	1386.7	1284.1	1190.5	1094.6	996.3	897.6	800.9	702.6	602.9
70°	1880.3	1754.7	1635.0	1516.1	1393.7	1271.5	1159.4	1044.9	928.4	816.2	702.6
67.5°	2189.4	2047.9	1901.6	1750.8	1609.4	1468.4	1324.1	1191.9	1061.2	928.4	800.9
65°	2520.9	2350.1	2175.2	2007.6	1835.6	1665.7	1505.9	1342.9	1191.9	1044.9	897.6
62.5°	2859.6	2660.5	2466.4	2266.5	2071.7	1878.2	1684.6	1505.9	1324.1	1159.4	996.3
60°	3208.2	2986.6	2758.1	2536.6	2313.2	2093.1	1878.2	1665.7	1468.4	1271.5	1094.6
57.5°	3575.5	3314.8	3063.4	2809.0	2560.1	2313.2	2071.7	1835.6	1609.4	1393.7	1190.5
55°	3953.3	3660.1	3370.9	3089.1	2809.0	2536.6	2266.5	2007.6	1750.8	1516.1	1284.1
52.5°	4371.6	4019.8	3688.4	3370.9	3063.4	2758.1	2466.4	2175.2	1901.6	1635.0	1386.7
50°	4818.6	4405.3	4019.8	3660.1	3314.8	2986.6	2660.5	2350.1	2047.9	1754.7	1487.6
47.5°	5290.2	4818.6	4371.6	3953.3	3575.5	3208.2	2859.6	2520.9	2189.4	1880.3	1585.0
45°	5804.7	5249.5	4738.2	4271.0	3827.8	3435.6	3055.5	2685.7	2337.1	2001.3	1678.8
42.5°	6321.4	5709.1	5127.9	4578.6	4104.7	3659.4	3244.0	2854.7	2479.3	2117.5	1775.5
40°	6889.5	6176.4	5519.2	4927.1	4377.3	3874.9	3438.1	3018.3	2615.3	2231.6	1872.3
37.5°	7443.3	6664.3	5937.1	5260.8	4649.8	4114.2	3625.1	3174.2	2747.7	2346.3	1964.5
35°	8014.8	7159.0	6336.0	5607.0	4942.9	4341.6	3802.6	3326.9	2880.1	2454.9	2051.7
32.5°	8562.3	7641.5	6767.2	5957.0	5220.3	4556.6	3987.1	3478.2	3004.9	2557.2	2133.8
30°	9104.3	8123.2	7178.8	6286.6	5493.6	4792.2	4170.6	3620.1	3121.8	2653.0	2212.2
27.5°	9620.7	8574.9	7571.0	6629.1	5776.4	5014.6	4341.6	3752.2	3230.6	2744.6	2289.6
25°	10108.5	9013.4	7958.9	6958.3	6038.2	5220.3	4499.5	3874.9	3336.3	2833.1	2360.9
22.5°	10575.0	9423.3	8315.2	7260.4	6278.1	5409.3	4656.8	4004.8	3435.6	2913.8	2425.9
20°	10999.7	9795.9	8638.5	7538.4	6514.5	5607.0	4811.0	4122.1	3525.2	2986.6	2484.6
17.5°	11384.7	10137.6	8942.0	7803.4	6737.7	5783.1	4948.2	4226.5	3604.9	3051.3	2536.6
15°	11742.7	10445.6	9210.8	8035.5	6933.1	5937.1	5068.0	4317.6	3674.3	3107.6	2582.0
12.5°	12049.5	10709.2	9440.6	8233.6	7099.7	6068.3	5170.1	4395.1	3733.5	3155.6	2620.6
10°	12303.1	10926.8	9630.1	8396.9	7236.9	6176.4	5254.1	4458.9	3782.1	3195.0	2652.3
7.5°	12502.1	11097.4	9778.6	8524.7	7344.3	6260.9	5319.7	4508.7	3820.0	3225.8	2677.0
5°	12645.2	11220.0	9885.2	8616.5	7421.3	6321.4	5366.8	4544.4	3847.2	3247.8	2694.7
2.5°	12731.4	11293.8	9949.4	8671.7	7467.6	6357.8	5395.1	4565.8	3863.5	3261.1	2705.3
0°	12760.2	11318.5	9970.8	8690.1	7483.1	6370.0	5404.5	4573.0	3869.0	3265.5	2708.9
-2.5°	12731.4	11293.8	9949.4	8671.7	7467.6	6357.8	5395.1	4565.8	3863.5	3261.1	2705.3
-5°	12645.2	11220.0	9885.2	8616.5	7421.3	6321.4	5366.8	4544.4	3847.2	3247.8	2694.7
-7.5°	12502.1	11097.4	9778.6	8524.7	7344.3	6260.9	5319.7	4508.7	3820.0	3225.8	2677.0
-10°	12303.1	10926.8	9630.1	8396.9	7236.9	6176.4	5254.1	4458.9	3782.1	3195.0	2652.3
-12.5°	12049.5	10709.2	9440.6	8233.6	7099.7	6068.3	5170.1	4395.1	3733.5	3155.6	2620.6
-15°	11742.7	10445.6	9210.8	8035.5	6933.1	5937.1	5068.0	4317.6	3674.3	3107.6	2582.0
-17.5°	11384.7	10137.6	8942.0	7803.4	6737.7	5783.1	4948.2	4226.5	3604.9	3051.3	2536.6
-20°	10999.7	9795.9	8638.5	7538.4	6514.5	5607.0	4811.0	4122.1	3525.2	2986.6	2484.6



REPORT NUMBER: P624796 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-VN-08-E-PRO-4000K-77

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	10575.0	9423.3	8315.2	7260.4	6278.1	5409.3	4656.8	4004.8	3435.6	2913.8	2425.9
-25°	10108.5	9013.4	7958.9	6958.3	6038.2	5220.3	4499.5	3874.9	3336.3	2833.1	2360.9
-27.5°	9620.7	8574.9	7571.0	6629.1	5776.4	5014.6	4341.6	3752.2	3230.6	2744.6	2289.6
-30°	9104.3	8123.2	7178.8	6286.6	5493.6	4792.2	4170.6	3620.1	3121.8	2653.0	2212.2
-32.5°	8562.3	7641.5	6767.2	5957.0	5220.3	4556.6	3987.1	3478.2	3004.9	2557.2	2133.8
-35°	8014.8	7159.0	6336.0	5607.0	4942.9	4341.6	3802.6	3326.9	2880.1	2454.9	2051.7
-37.5°	7443.3	6664.3	5937.1	5260.8	4649.8	4114.2	3625.1	3174.2	2747.7	2346.3	1964.5
-40°	6889.5	6176.4	5519.2	4927.1	4377.3	3874.9	3438.1	3018.3	2615.3	2231.6	1872.3
-42.5°	6321.4	5709.1	5127.9	4578.6	4104.7	3659.4	3244.0	2854.7	2479.3	2117.5	1775.5
-45°	5804.7	5249.5	4738.2	4271.0	3827.8	3435.6	3055.5	2685.7	2337.1	2001.3	1678.8
-47.5°	5290.2	4818.6	4371.6	3953.3	3575.5	3208.2	2859.6	2520.9	2189.4	1880.3	1585.0
-50°	4818.6	4405.3	4019.8	3660.1	3314.8	2986.6	2660.5	2350.1	2047.9	1754.7	1487.6
-52.5°	4371.6	4019.8	3688.4	3370.9	3063.4	2758.1	2466.4	2175.2	1901.6	1635.0	1386.7
-55°	3953.3	3660.1	3370.9	3089.1	2809.0	2536.6	2266.5	2007.6	1750.8	1516.1	1284.1
-57.5°	3575.5	3314.8	3063.4	2809.0	2560.1	2313.2	2071.7	1835.6	1609.4	1393.7	1190.5
-60°	3208.2	2986.6	2758.1	2536.6	2313.2	2093.1	1878.2	1665.7	1468.4	1271.5	1094.6
-62.5°	2859.6	2660.5	2466.4	2266.5	2071.7	1878.2	1684.6	1505.9	1324.1	1159.4	996.3
-65°	2520.9	2350.1	2175.2	2007.6	1835.6	1665.7	1505.9	1342.9	1191.9	1044.9	897.6
-67.5°	2189.4	2047.9	1901.6	1750.8	1609.4	1468.4	1324.1	1191.9	1061.2	928.4	800.9
-70°	1880.3	1754.7	1635.0	1516.1	1393.7	1271.5	1159.4	1044.9	928.4	816.2	702.6
-72.5°	1585.0	1487.6	1386.7	1284.1	1190.5	1094.6	996.3	897.6	800.9	702.6	602.9
-75°	1306.0	1231.6	1156.2	1078.3	998.1	916.3	836.6	755.1	672.1	587.7	512.0
-77.5°	1059.3	998.6	935.8	873.9	810.7	745.8	679.3	611.3	546.7	485.6	423.6
-80°	818.9	773.1	725.6	676.6	626.0	574.4	528.3	481.2	433.1	384.1	334.4
-82.5°	584.9	554.1	523.3	491.4	458.6	424.8	390.2	354.8	318.7	282.0	247.3
-85°	380.6	360.8	340.3	319.0	297.1	274.6	253.6	232.1	210.2	187.8	165.1
-87.5°	185.7	176.7	167.3	157.6	147.7	137.4	126.9	116.1	105.2	94.0	82.6
-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: P624796 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-VN-08-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°	71.1	59.5	47.7	35.9	24.0	12.0	0.0
85°	142.1	118.9	95.4	71.7	47.9	24.0	0.0
82.5°	212.9	178.0	142.8	107.3	71.7	35.9	0.0
80°	284.1	236.8	190.0	142.8	95.4	47.7	0.0
77.5°	360.8	297.2	236.8	178.0	118.9	59.5	0.0
75°	436.8	360.8	284.1	212.9	142.1	71.1	0.0
72.5°	512.0	423.6	334.4	247.3	165.1	82.6	0.0
70°	587.7	485.6	384.1	282.0	187.8	94.0	0.0
67.5°	672.1	546.7	433.1	318.7	210.2	105.2	0.0
65°	755.1	611.3	481.2	354.8	232.1	116.1	0.0
62.5°	836.6	679.3	528.3	390.2	253.6	126.9	0.0
60°	916.3	745.8	574.4	424.8	274.6	137.4	0.0
57.5°	998.1	810.7	626.0	458.6	297.1	147.7	0.0
55°	1078.3	873.9	676.6	491.4	319.0	157.6	0.0
52.5°	1156.2	935.8	725.6	523.3	340.3	167.3	0.0
50°	1231.6	998.6	773.1	554.1	360.8	176.7	0.0
47.5°	1306.0	1059.3	818.9	584.9	380.6	185.7	0.0
45°	1386.3	1117.6	863.0	617.9	399.6	194.4	0.0
42.5°	1463.2	1173.5	905.2	649.5	417.9	202.6	0.0
40°	1536.7	1226.8	946.6	679.7	435.2	210.6	0.0
37.5°	1606.6	1277.5	987.0	708.3	451.7	218.1	0.0
35°	1672.7	1330.0	1025.3	735.4	467.3	225.2	0.0
32.5°	1737.2	1381.6	1061.2	760.8	482.0	231.8	0.0
30°	1802.8	1429.9	1094.8	784.5	495.7	238.1	0.0
27.5°	1863.6	1474.7	1126.0	806.6	508.4	243.8	0.0
25°	1919.6	1515.9	1154.7	826.8	520.0	249.1	0.0
22.5°	1970.7	1553.5	1180.8	845.3	530.6	254.0	0.0
20°	2016.7	1587.3	1204.3	861.9	540.2	258.3	0.0
17.5°	2057.5	1617.4	1225.2	876.6	548.7	262.2	0.0
15°	2093.1	1643.5	1243.3	889.5	556.1	265.5	0.0
12.5°	2123.4	1665.7	1258.8	900.4	562.4	268.4	0.0
10°	2148.2	1684.0	1271.5	909.3	567.5	270.7	0.0
7.5°	2167.6	1698.2	1281.4	916.3	571.5	272.5	0.0
5°	2181.5	1708.4	1288.4	921.3	574.4	273.9	0.0
2.5°	2189.8	1714.6	1292.7	924.3	576.1	274.6	0.0
0°	2192.6	1716.6	1294.1	925.3	576.7	274.9	0.0
-2.5°	2189.8	1714.6	1292.7	924.3	576.1	274.6	0.0
-5°	2181.5	1708.4	1288.4	921.3	574.4	273.9	0.0
-7.5°	2167.6	1698.2	1281.4	916.3	571.5	272.5	0.0
-10°	2148.2	1684.0	1271.5	909.3	567.5	270.7	0.0
-12.5°	2123.4	1665.7	1258.8	900.4	562.4	268.4	0.0
-15°	2093.1	1643.5	1243.3	889.5	556.1	265.5	0.0
-17.5°	2057.5	1617.4	1225.2	876.6	548.7	262.2	0.0
-20°	2016.7	1587.3	1204.3	861.9	540.2	258.3	0.0

Classified

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

Scaled Data Report



REPORT NUMBER: P624796 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-E-PRO-4000K-77

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	1970.7	1553.5	1180.8	845.3	530.6	254.0	0.0
-25°	1919.6	1515.9	1154.7	826.8	520.0	249.1	0.0
-27.5°	1863.6	1474.7	1126.0	806.6	508.4	243.8	0.0
-30°	1802.8	1429.9	1094.8	784.5	495.7	238.1	0.0
-32.5°	1737.2	1381.6	1061.2	760.8	482.0	231.8	0.0
-35°	1672.7	1330.0	1025.3	735.4	467.3	225.2	0.0
-37.5°	1606.6	1277.5	987.0	708.3	451.7	218.1	0.0
-40°	1536.7	1226.8	946.6	679.7	435.2	210.6	0.0
-42.5°	1463.2	1173.5	905.2	649.5	417.9	202.6	0.0
-45°	1386.3	1117.6	863.0	617.9	399.6	194.4	0.0
-47.5°	1306.0	1059.3	818.9	584.9	380.6	185.7	0.0
-50°	1231.6	998.6	773.1	554.1	360.8	176.7	0.0
-52.5°	1156.2	935.8	725.6	523.3	340.3	167.3	0.0
-55°	1078.3	873.9	676.6	491.4	319.0	157.6	0.0
-57.5°	998.1	810.7	626.0	458.6	297.1	147.7	0.0
-60°	916.3	745.8	574.4	424.8	274.6	137.4	0.0
-62.5°	836.6	679.3	528.3	390.2	253.6	126.9	0.0
-65°	755.1	611.3	481.2	354.8	232.1	116.1	0.0
-67.5°	672.1	546.7	433.1	318.7	210.2	105.2	0.0
-70°	587.7	485.6	384.1	282.0	187.8	94.0	0.0
-72.5°	512.0	423.6	334.4	247.3	165.1	82.6	0.0
-75°	436.8	360.8	284.1	212.9	142.1	71.1	0.0
-77.5°	360.8	297.2	236.8	178.0	118.9	59.5	0.0
-80°	284.1	236.8	190.0	142.8	95.4	47.7	0.0
-82.5°	212.9	178.0	142.8	107.3	71.7	35.9	0.0
-85°	142.1	118.9	95.4	71.7	47.9	24.0	0.0
-87.5°	71.1	59.5	47.7	35.9	24.0	12.0	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)