

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: P624743 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-VN-04-E-PRO-3000K-33**

Issue Date: 11/8/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P624743 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-765-11)  
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-3000K-33  
Description: EPHESUS LUMAVISION CCT TUNING FLOOD  
3000K AND TYPE 33 OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20373.3 lumens  
Efficiency: N/A  
Efficacy: 124.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')

Beam Angle (50%): 13.8°H x 13.8°V  
Beam Lumens: 5940.8 lumens  
Beam Efficiency: 29.2%

Field Angle (10%): 31.4°H x 31.4°V  
Field Lumens: 13832.7 lumens  
Field Efficiency: 67.9%

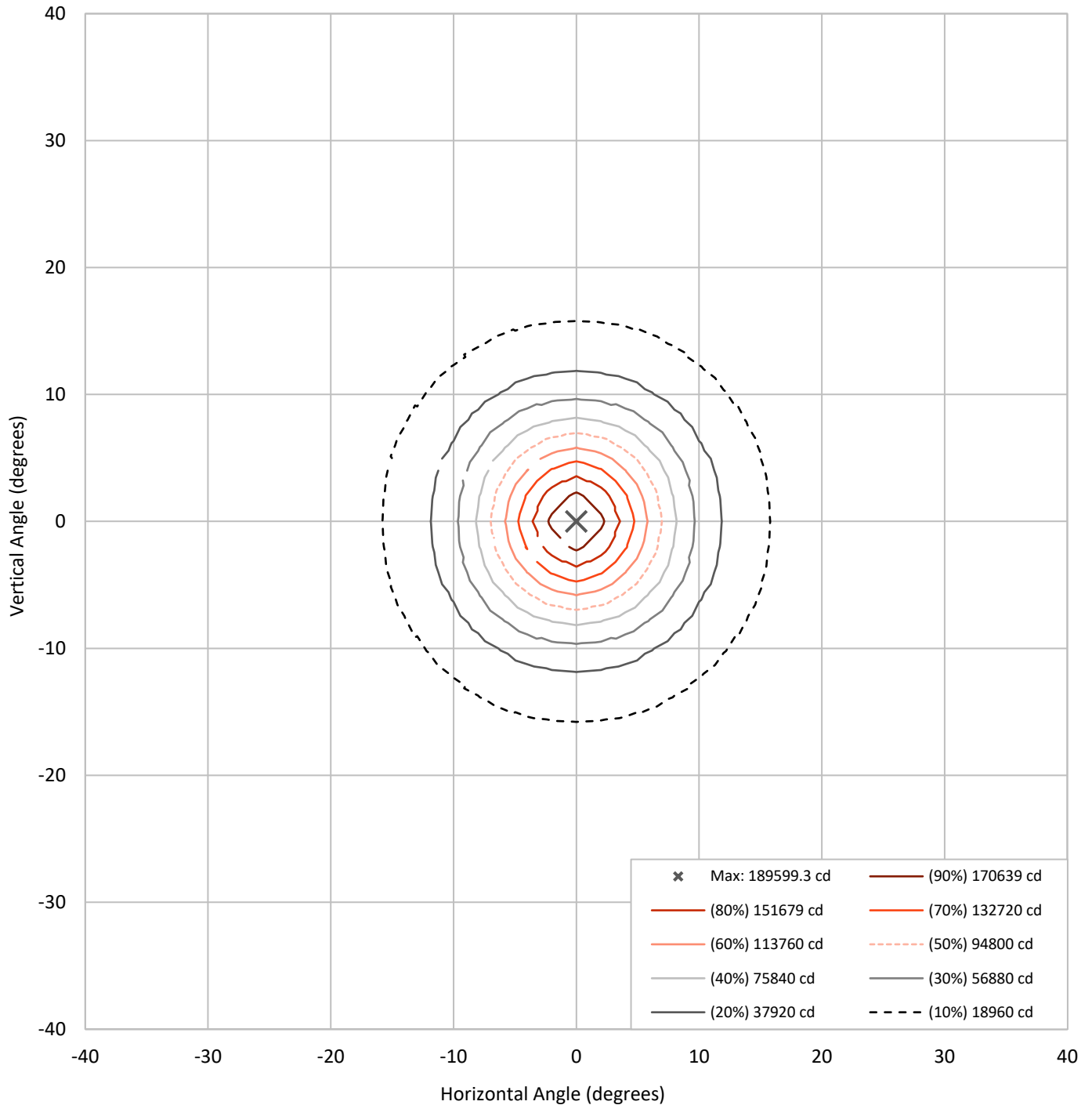
NEMA Type: 3H x 3V  
Max Intensity: 189599.3 candela  
Max Intensity Angle: 0°H x 0°V

Input Watts (W): 163.5  
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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CATALOG NUMBER: EPH-VN-04-E-PRO-3000K-33

### Iso-Candela Plot





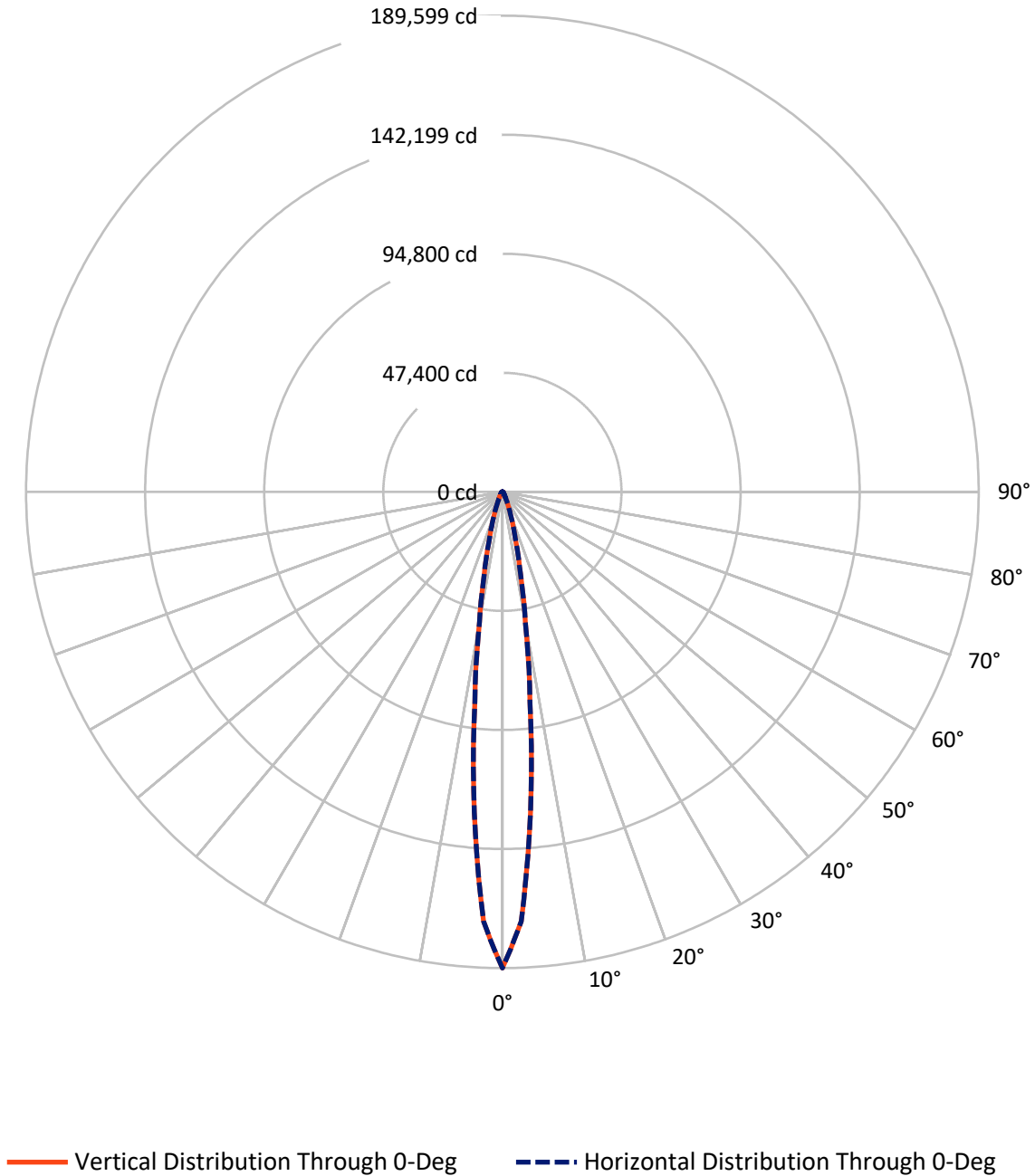
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### Lumen Table

90	0.3	2.6	7.0	11.4	13.2	11.4	7.0	2.6	0.3							
80	0.3	2.6	7.0	11.4	13.2	11.4	7.0	2.6	0.3							
70	1.2	1.3	2.8	4.7	6.6	8.4	9.7	10.4	10.4	9.7	8.4	6.6	4.7	2.8	1.3	1.2
60		2.1	4.4	7.1	9.7	12.1	13.9	14.9	14.9	13.9	12.1	9.7	7.1	4.4	2.1	
50	2.2	2.8	5.7	9.0	12.5	16.1	19.4	21.5	21.5	19.4	16.1	12.5	9.0	5.7	2.8	2.2
40		3.5	6.8	10.8	15.9	22.7	31.0	38.1	38.1	31.0	22.7	15.9	10.8	6.8	3.5	
30	2.9	4.0	7.7	12.6	20.6	36.3	74.1	126.8	126.8	74.1	36.3	20.6	12.6	7.7	4.0	2.9
20		4.3	8.3	14.3	26.4	69.8	251.0	623.8	623.8	251.0	69.8	26.4	14.3	8.3	4.3	
10	3.2	4.5	8.7	15.4	31.5	116.4	607.8	2669.1	2669.1	607.8	116.4	31.5	15.4	8.7	4.5	3.2
0		4.5	8.7	15.4	31.5	116.4	607.8	2669.1	2669.1	607.8	116.4	31.5	15.4	8.7	4.5	
-10	2.9	4.3	8.3	14.3	26.4	69.8	251.0	623.8	623.8	251.0	69.8	26.4	14.3	8.3	4.3	2.9
-20		4.0	7.7	12.6	20.6	36.3	74.1	126.8	126.8	74.1	36.3	20.6	12.6	7.7	4.0	
-30	2.2	3.5	6.8	10.8	15.9	22.7	31.0	38.1	38.1	31.0	22.7	15.9	10.8	6.8	3.5	2.2
-40		2.8	5.7	9.0	12.5	16.1	19.4	21.5	21.5	19.4	16.1	12.5	9.0	5.7	2.8	
-50	1.2	2.1	4.4	7.1	9.7	12.1	13.9	14.9	14.9	13.9	12.1	9.7	7.1	4.4	2.1	1.2
-60		1.3	2.8	4.7	6.6	8.4	9.7	10.4	10.4	9.7	8.4	6.6	4.7	2.8	1.3	
-70	0.3	2.6	7.0	11.4	13.2	11.4	7.0	2.6	0.3							
-80		0.3	2.6	7.0	11.4	13.2	11.4	7.0	2.6	0.3						
-90	0.3	2.6	7.0	11.4	13.2	11.4	7.0	2.6	0.3							

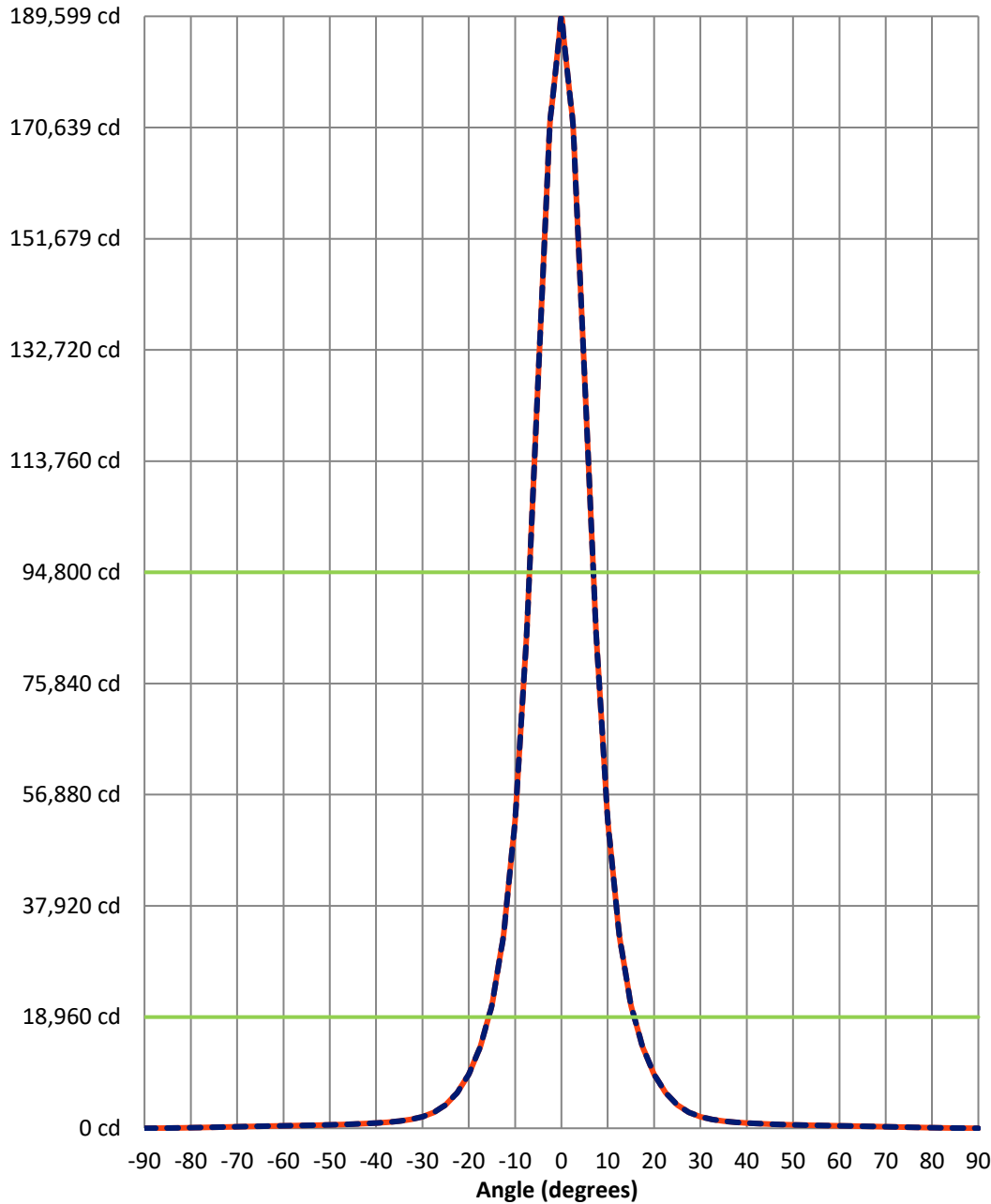
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 13.8°  
 V Angle: 13.8°  
 Lumens: 5940.8  
 Efficiency: 29.2%

**Field:**  
 H Angle: 31.4°  
 V Angle: 31.4°  
 Lumens: 13832.7  
 Efficiency: 67.9%

**Spill:**  
 Lumens: 6540.6  
 Efficiency: 32.1%

— 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	0.7	1.5	2.2	3.0	3.7	4.4	5.1	5.8	6.5	7.2
85°	0.0	1.5	3.0	4.4	5.9	7.4	8.8	10.2	11.6	13.0	14.4
82.5°	0.0	2.2	4.4	6.6	8.8	11.0	13.2	15.3	17.5	20.1	22.6
80°	0.0	3.0	5.9	8.8	11.7	14.6	17.6	21.2	24.7	28.1	31.5
77.5°	0.0	3.7	7.4	11.0	14.6	18.6	23.0	27.4	31.8	36.1	40.7
75°	0.0	4.4	8.8	13.2	17.6	23.0	28.4	33.7	39.0	45.2	51.2
72.5°	0.0	5.1	10.2	15.3	21.2	27.4	33.7	40.1	47.4	54.5	61.6
70°	0.0	5.8	11.6	17.5	24.7	31.8	39.0	47.4	55.7	63.9	74.6
67.5°	0.0	6.5	13.0	20.1	28.1	36.1	45.2	54.5	63.9	76.1	88.1
65°	0.0	7.2	14.4	22.6	31.5	40.7	51.2	61.6	74.6	88.1	101.7
62.5°	0.0	7.8	15.7	25.1	34.8	45.7	57.1	70.1	85.1	100.1	115.5
60°	0.0	8.5	17.0	27.5	38.0	50.5	62.9	79.2	95.4	112.3	129.2
57.5°	0.0	9.1	18.6	29.9	41.8	55.3	70.3	88.0	106.0	124.4	144.1
55°	0.0	9.7	20.1	32.2	45.5	59.9	77.7	96.6	116.4	136.5	159.4
52.5°	0.0	10.3	21.6	34.4	49.1	64.6	84.8	105.4	126.6	150.0	174.3
50°	0.0	10.9	23.0	36.6	52.5	70.3	91.8	114.0	136.9	163.0	189.5
47.5°	0.0	11.5	24.4	38.8	55.8	75.9	98.5	122.3	148.1	175.6	204.3
45°	0.0	12.0	25.8	41.2	59.1	81.3	105.4	130.3	158.9	188.4	218.5
42.5°	0.0	12.5	27.0	43.5	62.1	86.4	111.9	138.7	169.2	200.7	231.6
40°	0.0	13.0	28.3	45.7	65.6	91.3	118.2	147.4	179.3	212.4	244.0
37.5°	0.0	13.5	29.4	47.8	69.3	96.0	124.1	155.6	189.2	223.4	255.9
35°	0.0	13.9	30.5	49.8	72.8	100.6	129.8	163.4	198.6	233.5	267.1
32.5°	0.0	14.3	31.5	51.6	76.1	105.0	135.3	170.7	207.4	243.0	277.7
30°	0.0	14.7	32.5	53.3	79.2	109.1	141.2	177.6	215.7	251.9	287.7
27.5°	0.0	15.1	33.4	54.9	82.0	112.9	146.6	184.3	223.2	260.1	297.0
25°	0.0	15.4	34.2	56.4	84.7	116.4	151.6	190.4	229.9	267.8	305.5
22.5°	0.0	15.7	35.0	57.8	87.1	119.6	156.1	196.1	236.1	274.8	313.0
20°	0.0	16.0	35.6	59.0	89.2	122.5	160.2	201.1	241.6	281.0	319.7
17.5°	0.0	16.2	36.2	60.1	91.2	125.0	163.9	205.6	246.5	286.6	325.7
15°	0.0	16.4	36.8	61.0	92.8	127.3	167.0	209.5	250.8	291.5	330.9
12.5°	0.0	16.6	37.2	61.8	94.3	129.2	169.7	212.9	254.4	295.7	335.3
10°	0.0	16.7	37.6	62.4	95.4	130.7	171.9	215.6	257.4	299.1	339.0
7.5°	0.0	16.9	37.8	62.9	96.3	131.9	173.7	217.7	259.8	301.8	341.8
5°	0.0	16.9	38.0	63.3	97.0	132.8	174.9	219.3	261.5	303.7	343.9
2.5°	0.0	17.0	38.2	63.5	97.4	133.3	175.7	220.2	262.5	304.8	345.1
0°	0.0	17.0	38.2	63.6	97.5	133.5	175.9	220.5	262.8	305.2	345.5
-2.5°	0.0	17.0	38.2	63.5	97.4	133.3	175.7	220.2	262.5	304.8	345.1
-5°	0.0	16.9	38.0	63.3	97.0	132.8	174.9	219.3	261.5	303.7	343.9
-7.5°	0.0	16.9	37.8	62.9	96.3	131.9	173.7	217.7	259.8	301.8	341.8
-10°	0.0	16.7	37.6	62.4	95.4	130.7	171.9	215.6	257.4	299.1	339.0
-12.5°	0.0	16.6	37.2	61.8	94.3	129.2	169.7	212.9	254.4	295.7	335.3
-15°	0.0	16.4	36.8	61.0	92.8	127.3	167.0	209.5	250.8	291.5	330.9
-17.5°	0.0	16.2	36.2	60.1	91.2	125.0	163.9	205.6	246.5	286.6	325.7
-20°	0.0	16.0	35.6	59.0	89.2	122.5	160.2	201.1	241.6	281.0	319.7

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CATALOG NUMBER: EPH-VN-04-E-PRO-3000K-33

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	15.7	35.0	57.8	87.1	119.6	156.1	196.1	236.1	274.8	313.0
-25°	0.0	15.4	34.2	56.4	84.7	116.4	151.6	190.4	229.9	267.8	305.5
-27.5°	0.0	15.1	33.4	54.9	82.0	112.9	146.6	184.3	223.2	260.1	297.0
-30°	0.0	14.7	32.5	53.3	79.2	109.1	141.2	177.6	215.7	251.9	287.7
-32.5°	0.0	14.3	31.5	51.6	76.1	105.0	135.3	170.7	207.4	243.0	277.7
-35°	0.0	13.9	30.5	49.8	72.8	100.6	129.8	163.4	198.6	233.5	267.1
-37.5°	0.0	13.5	29.4	47.8	69.3	96.0	124.1	155.6	189.2	223.4	255.9
-40°	0.0	13.0	28.3	45.7	65.6	91.3	118.2	147.4	179.3	212.4	244.0
-42.5°	0.0	12.5	27.0	43.5	62.1	86.4	111.9	138.7	169.2	200.7	231.6
-45°	0.0	12.0	25.8	41.2	59.1	81.3	105.4	130.3	158.9	188.4	218.5
-47.5°	0.0	11.5	24.4	38.8	55.8	75.9	98.5	122.3	148.1	175.6	204.3
-50°	0.0	10.9	23.0	36.6	52.5	70.3	91.8	114.0	136.9	163.0	189.5
-52.5°	0.0	10.3	21.6	34.4	49.1	64.6	84.8	105.4	126.6	150.0	174.3
-55°	0.0	9.7	20.1	32.2	45.5	59.9	77.7	96.6	116.4	136.5	159.4
-57.5°	0.0	9.1	18.6	29.9	41.8	55.3	70.3	88.0	106.0	124.4	144.1
-60°	0.0	8.5	17.0	27.5	38.0	50.5	62.9	79.2	95.4	112.3	129.2
-62.5°	0.0	7.8	15.7	25.1	34.8	45.7	57.1	70.1	85.1	100.1	115.5
-65°	0.0	7.2	14.4	22.6	31.5	40.7	51.2	61.6	74.6	88.1	101.7
-67.5°	0.0	6.5	13.0	20.1	28.1	36.1	45.2	54.5	63.9	76.1	88.1
-70°	0.0	5.8	11.6	17.5	24.7	31.8	39.0	47.4	55.7	63.9	74.6
-72.5°	0.0	5.1	10.2	15.3	21.2	27.4	33.7	40.1	47.4	54.5	61.6
-75°	0.0	4.4	8.8	13.2	17.6	23.0	28.4	33.7	39.0	45.2	51.2
-77.5°	0.0	3.7	7.4	11.0	14.6	18.6	23.0	27.4	31.8	36.1	40.7
-80°	0.0	3.0	5.9	8.8	11.7	14.6	17.6	21.2	24.7	28.1	31.5
-82.5°	0.0	2.2	4.4	6.6	8.8	11.0	13.2	15.3	17.5	20.1	22.6
-85°	0.0	1.5	3.0	4.4	5.9	7.4	8.8	10.2	11.6	13.0	14.4
-87.5°	0.0	0.7	1.5	2.2	3.0	3.7	4.4	5.1	5.8	6.5	7.2
-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-3000K-33

**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°	7.8	8.5	9.1	9.7	10.3	10.9	11.5	12.0	12.5	13.0	13.5
85°	15.7	17.0	18.6	20.1	21.6	23.0	24.4	25.8	27.0	28.3	29.4
82.5°	25.1	27.5	29.9	32.2	34.4	36.6	38.8	41.2	43.5	45.7	47.8
80°	34.8	38.0	41.8	45.5	49.1	52.5	55.8	59.1	62.1	65.6	69.3
77.5°	45.7	50.5	55.3	59.9	64.6	70.3	75.9	81.3	86.4	91.3	96.0
75°	57.1	62.9	70.3	77.7	84.8	91.8	98.5	105.4	111.9	118.2	124.1
72.5°	70.1	79.2	88.0	96.6	105.4	114.0	122.3	130.3	138.7	147.4	155.6
70°	85.1	95.4	106.0	116.4	126.6	136.9	148.1	158.9	169.2	179.3	189.2
67.5°	100.1	112.3	124.4	136.5	150.0	163.0	175.6	188.4	200.7	212.4	223.4
65°	115.5	129.2	144.1	159.4	174.3	189.5	204.3	218.5	231.6	244.0	255.9
62.5°	130.8	147.9	165.1	182.3	199.5	216.3	232.0	246.8	261.2	274.9	288.1
60°	147.9	167.0	186.3	205.6	224.2	241.6	258.4	274.8	290.5	305.5	319.2
57.5°	165.1	186.3	207.6	228.1	247.4	266.3	284.6	302.3	318.7	334.3	349.2
55°	182.3	205.6	228.1	249.4	270.2	290.5	310.0	328.2	345.8	362.7	378.8
52.5°	199.5	224.2	247.4	270.2	292.5	313.8	334.0	353.5	372.4	389.8	404.5
50°	216.3	241.6	266.3	290.5	313.8	335.9	357.4	378.3	396.5	412.9	429.2
47.5°	232.0	258.4	284.6	310.0	334.0	357.4	380.3	399.9	418.0	436.5	454.4
45°	246.8	274.8	302.3	328.2	353.5	378.3	399.9	419.7	440.2	460.5	481.9
42.5°	261.2	290.5	318.7	345.8	372.4	396.5	418.0	440.2	462.6	486.1	508.2
40°	274.9	305.5	334.3	362.7	389.8	412.9	436.5	460.5	486.1	510.2	533.1
37.5°	288.1	319.2	349.2	378.8	404.5	429.2	454.4	481.9	508.2	533.1	562.3
35°	300.5	332.3	363.4	392.9	418.5	445.2	473.5	502.1	528.9	559.7	592.1
32.5°	312.0	344.6	376.9	405.2	432.5	461.0	491.7	520.6	551.9	586.0	623.2
30°	322.5	356.1	388.9	416.8	445.9	477.1	508.4	539.1	574.8	613.9	660.5
27.5°	332.3	366.9	398.9	428.1	458.6	492.2	523.8	559.3	598.6	642.8	699.9
25°	341.3	376.9	408.1	438.7	471.6	505.6	539.0	578.1	621.7	677.4	743.5
22.5°	349.6	386.0	416.5	448.5	483.5	517.9	555.1	597.5	646.7	709.8	785.8
20°	357.0	392.9	424.4	457.5	494.3	529.0	569.8	615.6	674.0	746.0	825.9
17.5°	363.7	399.1	431.6	466.4	503.5	540.0	583.2	631.8	698.5	778.5	862.8
15°	369.5	404.5	437.9	474.1	511.5	550.6	596.4	651.0	723.0	807.7	895.8
12.5°	374.4	409.1	443.3	480.8	518.4	559.7	607.7	668.2	745.8	833.7	934.7
10°	378.5	412.9	447.7	486.2	524.0	567.3	617.0	682.4	764.8	855.3	967.1
7.5°	381.7	415.9	451.2	490.5	528.5	573.2	624.3	693.5	779.7	872.3	992.6
5°	384.0	418.0	453.7	493.5	531.6	577.4	629.6	701.5	790.4	884.6	1011.1
2.5°	385.3	419.3	455.2	495.4	533.6	579.9	632.7	706.4	796.9	892.0	1022.3
0°	385.8	419.7	455.7	496.0	534.2	580.8	633.8	708.0	799.1	894.5	1026.0
-2.5°	385.3	419.3	455.2	495.4	533.6	579.9	632.7	706.4	796.9	892.0	1022.3
-5°	384.0	418.0	453.7	493.5	531.6	577.4	629.6	701.5	790.4	884.6	1011.1
-7.5°	381.7	415.9	451.2	490.5	528.5	573.2	624.3	693.5	779.7	872.3	992.6
-10°	378.5	412.9	447.7	486.2	524.0	567.3	617.0	682.4	764.8	855.3	967.1
-12.5°	374.4	409.1	443.3	480.8	518.4	559.7	607.7	668.2	745.8	833.7	934.7
-15°	369.5	404.5	437.9	474.1	511.5	550.6	596.4	651.0	723.0	807.7	895.8
-17.5°	363.7	399.1	431.6	466.4	503.5	540.0	583.2	631.8	698.5	778.5	862.8
-20°	357.0	392.9	424.4	457.5	494.3	529.0	569.8	615.6	674.0	746.0	825.9

Classified

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

Scaled Data Report



REPORT NUMBER: P624743 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-3000K-33

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	349.6	386.0	416.5	448.5	483.5	517.9	555.1	597.5	646.7	709.8	785.8
-25°	341.3	376.9	408.1	438.7	471.6	505.6	539.0	578.1	621.7	677.4	743.5
-27.5°	332.3	366.9	398.9	428.1	458.6	492.2	523.8	559.3	598.6	642.8	699.9
-30°	322.5	356.1	388.9	416.8	445.9	477.1	508.4	539.1	574.8	613.9	660.5
-32.5°	312.0	344.6	376.9	405.2	432.5	461.0	491.7	520.6	551.9	586.0	623.2
-35°	300.5	332.3	363.4	392.9	418.5	445.2	473.5	502.1	528.9	559.7	592.1
-37.5°	288.1	319.2	349.2	378.8	404.5	429.2	454.4	481.9	508.2	533.1	562.3
-40°	274.9	305.5	334.3	362.7	389.8	412.9	436.5	460.5	486.1	510.2	533.1
-42.5°	261.2	290.5	318.7	345.8	372.4	396.5	418.0	440.2	462.6	486.1	508.2
-45°	246.8	274.8	302.3	328.2	353.5	378.3	399.9	419.7	440.2	460.5	481.9
-47.5°	232.0	258.4	284.6	310.0	334.0	357.4	380.3	399.9	418.0	436.5	454.4
-50°	216.3	241.6	266.3	290.5	313.8	335.9	357.4	378.3	396.5	412.9	429.2
-52.5°	199.5	224.2	247.4	270.2	292.5	313.8	334.0	353.5	372.4	389.8	404.5
-55°	182.3	205.6	228.1	249.4	270.2	290.5	310.0	328.2	345.8	362.7	378.8
-57.5°	165.1	186.3	207.6	228.1	247.4	266.3	284.6	302.3	318.7	334.3	349.2
-60°	147.9	167.0	186.3	205.6	224.2	241.6	258.4	274.8	290.5	305.5	319.2
-62.5°	130.8	147.9	165.1	182.3	199.5	216.3	232.0	246.8	261.2	274.9	288.1
-65°	115.5	129.2	144.1	159.4	174.3	189.5	204.3	218.5	231.6	244.0	255.9
-67.5°	100.1	112.3	124.4	136.5	150.0	163.0	175.6	188.4	200.7	212.4	223.4
-70°	85.1	95.4	106.0	116.4	126.6	136.9	148.1	158.9	169.2	179.3	189.2
-72.5°	70.1	79.2	88.0	96.6	105.4	114.0	122.3	130.3	138.7	147.4	155.6
-75°	57.1	62.9	70.3	77.7	84.8	91.8	98.5	105.4	111.9	118.2	124.1
-77.5°	45.7	50.5	55.3	59.9	64.6	70.3	75.9	81.3	86.4	91.3	96.0
-80°	34.8	38.0	41.8	45.5	49.1	52.5	55.8	59.1	62.1	65.6	69.3
-82.5°	25.1	27.5	29.9	32.2	34.4	36.6	38.8	41.2	43.5	45.7	47.8
-85°	15.7	17.0	18.6	20.1	21.6	23.0	24.4	25.8	27.0	28.3	29.4
-87.5°	7.8	8.5	9.1	9.7	10.3	10.9	11.5	12.0	12.5	13.0	13.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P624743 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-VN-04-E-PRO-3000K-33

**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°	13.9	14.3	14.7	15.1	15.4	15.7	16.0	16.2	16.4	16.6	16.7
85°	30.5	31.5	32.5	33.4	34.2	35.0	35.6	36.2	36.8	37.2	37.6
82.5°	49.8	51.6	53.3	54.9	56.4	57.8	59.0	60.1	61.0	61.8	62.4
80°	72.8	76.1	79.2	82.0	84.7	87.1	89.2	91.2	92.8	94.3	95.4
77.5°	100.6	105.0	109.1	112.9	116.4	119.6	122.5	125.0	127.3	129.2	130.7
75°	129.8	135.3	141.2	146.6	151.6	156.1	160.2	163.9	167.0	169.7	171.9
72.5°	163.4	170.7	177.6	184.3	190.4	196.1	201.1	205.6	209.5	212.9	215.6
70°	198.6	207.4	215.7	223.2	229.9	236.1	241.6	246.5	250.8	254.4	257.4
67.5°	233.5	243.0	251.9	260.1	267.8	274.8	281.0	286.6	291.5	295.7	299.1
65°	267.1	277.7	287.7	297.0	305.5	313.0	319.7	325.7	330.9	335.3	339.0
62.5°	300.5	312.0	322.5	332.3	341.3	349.6	357.0	363.7	369.5	374.4	378.5
60°	332.3	344.6	356.1	366.9	376.9	386.0	392.9	399.1	404.5	409.1	412.9
57.5°	363.4	376.9	388.9	398.9	408.1	416.5	424.4	431.6	437.9	443.3	447.7
55°	392.9	405.2	416.8	428.1	438.7	448.5	457.5	466.4	474.1	480.8	486.2
52.5°	418.5	432.5	445.9	458.6	471.6	483.5	494.3	503.5	511.5	518.4	524.0
50°	445.2	461.0	477.1	492.2	505.6	517.9	529.0	540.0	550.6	559.7	567.3
47.5°	473.5	491.7	508.4	523.8	539.0	555.1	569.8	583.2	596.4	607.7	617.0
45°	502.1	520.6	539.1	559.3	578.1	597.5	615.6	631.8	651.0	668.2	682.4
42.5°	528.9	551.9	574.8	598.6	621.7	646.7	674.0	698.5	723.0	745.8	764.8
40°	559.7	586.0	613.9	642.8	677.4	709.8	746.0	778.5	807.7	833.7	855.3
37.5°	592.1	623.2	660.5	699.9	743.5	785.8	825.9	862.8	895.8	934.7	967.1
35°	626.3	669.4	714.8	766.4	815.8	863.3	911.9	966.8	1015.6	1073.2	1125.5
32.5°	669.4	720.4	778.0	834.4	888.8	956.9	1021.9	1107.8	1186.1	1270.2	1354.6
30°	714.8	778.0	840.7	904.5	984.5	1075.9	1179.6	1299.9	1425.6	1550.2	1695.3
27.5°	766.4	834.4	904.5	993.7	1104.4	1224.9	1389.6	1559.1	1773.8	1962.1	2226.1
25°	815.8	888.8	984.5	1104.4	1246.9	1435.3	1671.1	1928.4	2293.5	2636.0	3070.6
22.5°	863.3	956.9	1075.9	1224.9	1435.3	1708.9	2037.1	2499.5	3061.6	3694.1	4389.3
20°	911.9	1021.9	1179.6	1389.6	1671.1	2037.1	2569.3	3309.2	4143.0	5272.0	6347.1
17.5°	966.8	1107.8	1299.9	1559.1	1928.4	2499.5	3309.2	4358.8	5729.6	7451.0	9104.1
15°	1015.6	1186.1	1425.6	1773.8	2293.5	3061.6	4143.0	5729.6	7829.6	10273.4	13051.8
12.5°	1073.2	1270.2	1550.2	1962.1	2636.0	3694.1	5272.0	7451.0	10273.4	13726.6	18290.8
10°	1125.5	1354.6	1695.3	2226.1	3070.6	4389.3	6347.1	9104.1	13051.8	18290.8	25245.9
7.5°	1166.9	1421.5	1810.8	2437.6	3464.7	5101.0	7558.6	11105.7	16101.5	23153.6	33053.2
5°	1196.8	1470.0	1894.8	2592.0	3753.6	5625.7	8458.6	12645.5	18756.7	28370.5	43317.2
2.5°	1214.9	1499.4	1945.8	2685.9	3930.0	5947.6	9014.0	13603.4	20428.5	31716.1	50098.7
0°	1221.0	1509.3	1962.9	2717.5	3989.4	6056.1	9201.9	13928.9	21000.4	32873.2	52489.4
-2.5°	1214.9	1499.4	1945.8	2685.9	3930.0	5947.6	9014.0	13603.4	20428.5	31716.1	50098.7
-5°	1196.8	1470.0	1894.8	2592.0	3753.6	5625.7	8458.6	12645.5	18756.7	28370.5	43317.2
-7.5°	1166.9	1421.5	1810.8	2437.6	3464.7	5101.0	7558.6	11105.7	16101.5	23153.6	33053.2
-10°	1125.5	1354.6	1695.3	2226.1	3070.6	4389.3	6347.1	9104.1	13051.8	18290.8	25245.9
-12.5°	1073.2	1270.2	1550.2	1962.1	2636.0	3694.1	5272.0	7451.0	10273.4	13726.6	18290.8
-15°	1015.6	1186.1	1425.6	1773.8	2293.5	3061.6	4143.0	5729.6	7829.6	10273.4	13051.8
-17.5°	966.8	1107.8	1299.9	1559.1	1928.4	2499.5	3309.2	4358.8	5729.6	7451.0	9104.1
-20°	911.9	1021.9	1179.6	1389.6	1671.1	2037.1	2569.3	3309.2	4143.0	5272.0	6347.1

Classified

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

Scaled Data Report



REPORT NUMBER: P624743 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-3000K-33

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	863.3	956.9	1075.9	1224.9	1435.3	1708.9	2037.1	2499.5	3061.6	3694.1	4389.3
-25°	815.8	888.8	984.5	1104.4	1246.9	1435.3	1671.1	1928.4	2293.5	2636.0	3070.6
-27.5°	766.4	834.4	904.5	993.7	1104.4	1224.9	1389.6	1559.1	1773.8	1962.1	2226.1
-30°	714.8	778.0	840.7	904.5	984.5	1075.9	1179.6	1299.9	1425.6	1550.2	1695.3
-32.5°	669.4	720.4	778.0	834.4	888.8	956.9	1021.9	1107.8	1186.1	1270.2	1354.6
-35°	626.3	669.4	714.8	766.4	815.8	863.3	911.9	966.8	1015.6	1073.2	1125.5
-37.5°	592.1	623.2	660.5	699.9	743.5	785.8	825.9	862.8	895.8	934.7	967.1
-40°	559.7	586.0	613.9	642.8	677.4	709.8	746.0	778.5	807.7	833.7	855.3
-42.5°	528.9	551.9	574.8	598.6	621.7	646.7	674.0	698.5	723.0	745.8	764.8
-45°	502.1	520.6	539.1	559.3	578.1	597.5	615.6	631.8	651.0	668.2	682.4
-47.5°	473.5	491.7	508.4	523.8	539.0	555.1	569.8	583.2	596.4	607.7	617.0
-50°	445.2	461.0	477.1	492.2	505.6	517.9	529.0	540.0	550.6	559.7	567.3
-52.5°	418.5	432.5	445.9	458.6	471.6	483.5	494.3	503.5	511.5	518.4	524.0
-55°	392.9	405.2	416.8	428.1	438.7	448.5	457.5	466.4	474.1	480.8	486.2
-57.5°	363.4	376.9	388.9	398.9	408.1	416.5	424.4	431.6	437.9	443.3	447.7
-60°	332.3	344.6	356.1	366.9	376.9	386.0	392.9	399.1	404.5	409.1	412.9
-62.5°	300.5	312.0	322.5	332.3	341.3	349.6	357.0	363.7	369.5	374.4	378.5
-65°	267.1	277.7	287.7	297.0	305.5	313.0	319.7	325.7	330.9	335.3	339.0
-67.5°	233.5	243.0	251.9	260.1	267.8	274.8	281.0	286.6	291.5	295.7	299.1
-70°	198.6	207.4	215.7	223.2	229.9	236.1	241.6	246.5	250.8	254.4	257.4
-72.5°	163.4	170.7	177.6	184.3	190.4	196.1	201.1	205.6	209.5	212.9	215.6
-75°	129.8	135.3	141.2	146.6	151.6	156.1	160.2	163.9	167.0	169.7	171.9
-77.5°	100.6	105.0	109.1	112.9	116.4	119.6	122.5	125.0	127.3	129.2	130.7
-80°	72.8	76.1	79.2	82.0	84.7	87.1	89.2	91.2	92.8	94.3	95.4
-82.5°	49.8	51.6	53.3	54.9	56.4	57.8	59.0	60.1	61.0	61.8	62.4
-85°	30.5	31.5	32.5	33.4	34.2	35.0	35.6	36.2	36.8	37.2	37.6
-87.5°	13.9	14.3	14.7	15.1	15.4	15.7	16.0	16.2	16.4	16.6	16.7
-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: P624743 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-VN-04-E-PRO-3000K-33

**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°	16.9	16.9	17.0	17.0	17.0	16.9	16.9	16.7	16.6	16.4	16.2
85°	37.8	38.0	38.2	38.2	38.2	38.0	37.8	37.6	37.2	36.8	36.2
82.5°	62.9	63.3	63.5	63.6	63.5	63.3	62.9	62.4	61.8	61.0	60.1
80°	96.3	97.0	97.4	97.5	97.4	97.0	96.3	95.4	94.3	92.8	91.2
77.5°	131.9	132.8	133.3	133.5	133.3	132.8	131.9	130.7	129.2	127.3	125.0
75°	173.7	174.9	175.7	175.9	175.7	174.9	173.7	171.9	169.7	167.0	163.9
72.5°	217.7	219.3	220.2	220.5	220.2	219.3	217.7	215.6	212.9	209.5	205.6
70°	259.8	261.5	262.5	262.8	262.5	261.5	259.8	257.4	254.4	250.8	246.5
67.5°	301.8	303.7	304.8	305.2	304.8	303.7	301.8	299.1	295.7	291.5	286.6
65°	341.8	343.9	345.1	345.5	345.1	343.9	341.8	339.0	335.3	330.9	325.7
62.5°	381.7	384.0	385.3	385.8	385.3	384.0	381.7	378.5	374.4	369.5	363.7
60°	415.9	418.0	419.3	419.7	419.3	418.0	415.9	412.9	409.1	404.5	399.1
57.5°	451.2	453.7	455.2	455.7	455.2	453.7	451.2	447.7	443.3	437.9	431.6
55°	490.5	493.5	495.4	496.0	495.4	493.5	490.5	486.2	480.8	474.1	466.4
52.5°	528.5	531.6	533.6	534.2	533.6	531.6	528.5	524.0	518.4	511.5	503.5
50°	573.2	577.4	579.9	580.8	579.9	577.4	573.2	567.3	559.7	550.6	540.0
47.5°	624.3	629.6	632.7	633.8	632.7	629.6	624.3	617.0	607.7	596.4	583.2
45°	693.5	701.5	706.4	708.0	706.4	701.5	693.5	682.4	668.2	651.0	631.8
42.5°	779.7	790.4	796.9	799.1	796.9	790.4	779.7	764.8	745.8	723.0	698.5
40°	872.3	884.6	892.0	894.5	892.0	884.6	872.3	855.3	833.7	807.7	778.5
37.5°	992.6	1011.1	1022.3	1026.0	1022.3	1011.1	992.6	967.1	934.7	895.8	862.8
35°	1166.9	1196.8	1214.9	1221.0	1214.9	1196.8	1166.9	1125.5	1073.2	1015.6	966.8
32.5°	1421.5	1470.0	1499.4	1509.3	1499.4	1470.0	1421.5	1354.6	1270.2	1186.1	1107.8
30°	1810.8	1894.8	1945.8	1962.9	1945.8	1894.8	1810.8	1695.3	1550.2	1425.6	1299.9
27.5°	2437.6	2592.0	2685.9	2717.5	2685.9	2592.0	2437.6	2226.1	1962.1	1773.8	1559.1
25°	3464.7	3753.6	3930.0	3989.4	3930.0	3753.6	3464.7	3070.6	2636.0	2293.5	1928.4
22.5°	5101.0	5625.7	5947.6	6056.1	5947.6	5625.7	5101.0	4389.3	3694.1	3061.6	2499.5
20°	7558.6	8458.6	9014.0	9201.9	9014.0	8458.6	7558.6	6347.1	5272.0	4143.0	3309.2
17.5°	11105.7	12645.5	13603.4	13928.9	13603.4	12645.5	11105.7	9104.1	7451.0	5729.6	4358.8
15°	16101.5	18756.7	20428.5	21000.4	20428.5	18756.7	16101.5	13051.8	10273.4	7829.6	5729.6
12.5°	23153.6	28370.5	31716.1	32873.2	31716.1	28370.5	23153.6	18290.8	13726.6	10273.4	7451.0
10°	33053.2	43317.2	50098.7	52489.4	50098.7	43317.2	33053.2	25245.9	18290.8	13051.8	9104.1
7.5°	47848.9	65132.4	79154.6	84285.7	79154.6	65132.4	47848.9	33053.2	23153.6	16101.5	11105.7
5°	65132.4	91889.0	117813.3	128141.3	117813.3	91889.0	65132.4	43317.2	28370.5	18756.7	12645.5
2.5°	79154.6	117813.3	153338.1	171138.4	153338.1	117813.3	79154.6	50098.7	31716.1	20428.5	13603.4
0°	84285.7	128141.3	171138.4	189599.3	171138.4	128141.3	84285.7	52489.4	32873.2	21000.4	13928.9
-2.5°	79154.6	117813.3	153338.1	171138.4	153338.1	117813.3	79154.6	50098.7	31716.1	20428.5	13603.4
-5°	65132.4	91889.0	117813.3	128141.3	117813.3	91889.0	65132.4	43317.2	28370.5	18756.7	12645.5
-7.5°	47848.9	65132.4	79154.6	84285.7	79154.6	65132.4	47848.9	33053.2	23153.6	16101.5	11105.7
-10°	33053.2	43317.2	50098.7	52489.4	50098.7	43317.2	33053.2	25245.9	18290.8	13051.8	9104.1
-12.5°	23153.6	28370.5	31716.1	32873.2	31716.1	28370.5	23153.6	18290.8	13726.6	10273.4	7451.0
-15°	16101.5	18756.7	20428.5	21000.4	20428.5	18756.7	16101.5	13051.8	10273.4	7829.6	5729.6
-17.5°	11105.7	12645.5	13603.4	13928.9	13603.4	12645.5	11105.7	9104.1	7451.0	5729.6	4358.8
-20°	7558.6	8458.6	9014.0	9201.9	9014.0	8458.6	7558.6	6347.1	5272.0	4143.0	3309.2

Classified

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

Scaled Data Report



REPORT NUMBER: P624743 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-3000K-33

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	5101.0	5625.7	5947.6	6056.1	5947.6	5625.7	5101.0	4389.3	3694.1	3061.6	2499.5
-25°	3464.7	3753.6	3930.0	3989.4	3930.0	3753.6	3464.7	3070.6	2636.0	2293.5	1928.4
-27.5°	2437.6	2592.0	2685.9	2717.5	2685.9	2592.0	2437.6	2226.1	1962.1	1773.8	1559.1
-30°	1810.8	1894.8	1945.8	1962.9	1945.8	1894.8	1810.8	1695.3	1550.2	1425.6	1299.9
-32.5°	1421.5	1470.0	1499.4	1509.3	1499.4	1470.0	1421.5	1354.6	1270.2	1186.1	1107.8
-35°	1166.9	1196.8	1214.9	1221.0	1214.9	1196.8	1166.9	1125.5	1073.2	1015.6	966.8
-37.5°	992.6	1011.1	1022.3	1026.0	1022.3	1011.1	992.6	967.1	934.7	895.8	862.8
-40°	872.3	884.6	892.0	894.5	892.0	884.6	872.3	855.3	833.7	807.7	778.5
-42.5°	779.7	790.4	796.9	799.1	796.9	790.4	779.7	764.8	745.8	723.0	698.5
-45°	693.5	701.5	706.4	708.0	706.4	701.5	693.5	682.4	668.2	651.0	631.8
-47.5°	624.3	629.6	632.7	633.8	632.7	629.6	624.3	617.0	607.7	596.4	583.2
-50°	573.2	577.4	579.9	580.8	579.9	577.4	573.2	567.3	559.7	550.6	540.0
-52.5°	528.5	531.6	533.6	534.2	533.6	531.6	528.5	524.0	518.4	511.5	503.5
-55°	490.5	493.5	495.4	496.0	495.4	493.5	490.5	486.2	480.8	474.1	466.4
-57.5°	451.2	453.7	455.2	455.7	455.2	453.7	451.2	447.7	443.3	437.9	431.6
-60°	415.9	418.0	419.3	419.7	419.3	418.0	415.9	412.9	409.1	404.5	399.1
-62.5°	381.7	384.0	385.3	385.8	385.3	384.0	381.7	378.5	374.4	369.5	363.7
-65°	341.8	343.9	345.1	345.5	345.1	343.9	341.8	339.0	335.3	330.9	325.7
-67.5°	301.8	303.7	304.8	305.2	304.8	303.7	301.8	299.1	295.7	291.5	286.6
-70°	259.8	261.5	262.5	262.8	262.5	261.5	259.8	257.4	254.4	250.8	246.5
-72.5°	217.7	219.3	220.2	220.5	220.2	219.3	217.7	215.6	212.9	209.5	205.6
-75°	173.7	174.9	175.7	175.9	175.7	174.9	173.7	171.9	169.7	167.0	163.9
-77.5°	131.9	132.8	133.3	133.5	133.3	132.8	131.9	130.7	129.2	127.3	125.0
-80°	96.3	97.0	97.4	97.5	97.4	97.0	96.3	95.4	94.3	92.8	91.2
-82.5°	62.9	63.3	63.5	63.6	63.5	63.3	62.9	62.4	61.8	61.0	60.1
-85°	37.8	38.0	38.2	38.2	38.2	38.0	37.8	37.6	37.2	36.8	36.2
-87.5°	16.9	16.9	17.0	17.0	17.0	16.9	16.9	16.7	16.6	16.4	16.2
-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: P624743 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-3000K-33

**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°	16.0	15.7	15.4	15.1	14.7	14.3	13.9	13.5	13.0	12.5	12.0
85°	35.6	35.0	34.2	33.4	32.5	31.5	30.5	29.4	28.3	27.0	25.8
82.5°	59.0	57.8	56.4	54.9	53.3	51.6	49.8	47.8	45.7	43.5	41.2
80°	89.2	87.1	84.7	82.0	79.2	76.1	72.8	69.3	65.6	62.1	59.1
77.5°	122.5	119.6	116.4	112.9	109.1	105.0	100.6	96.0	91.3	86.4	81.3
75°	160.2	156.1	151.6	146.6	141.2	135.3	129.8	124.1	118.2	111.9	105.4
72.5°	201.1	196.1	190.4	184.3	177.6	170.7	163.4	155.6	147.4	138.7	130.3
70°	241.6	236.1	229.9	223.2	215.7	207.4	198.6	189.2	179.3	169.2	158.9
67.5°	281.0	274.8	267.8	260.1	251.9	243.0	233.5	223.4	212.4	200.7	188.4
65°	319.7	313.0	305.5	297.0	287.7	277.7	267.1	255.9	244.0	231.6	218.5
62.5°	357.0	349.6	341.3	332.3	322.5	312.0	300.5	288.1	274.9	261.2	246.8
60°	392.9	386.0	376.9	366.9	356.1	344.6	332.3	319.2	305.5	290.5	274.8
57.5°	424.4	416.5	408.1	398.9	388.9	376.9	363.4	349.2	334.3	318.7	302.3
55°	457.5	448.5	438.7	428.1	416.8	405.2	392.9	378.8	362.7	345.8	328.2
52.5°	494.3	483.5	471.6	458.6	445.9	432.5	418.5	404.5	389.8	372.4	353.5
50°	529.0	517.9	505.6	492.2	477.1	461.0	445.2	429.2	412.9	396.5	378.3
47.5°	569.8	555.1	539.0	523.8	508.4	491.7	473.5	454.4	436.5	418.0	399.9
45°	615.6	597.5	578.1	559.3	539.1	520.6	502.1	481.9	460.5	440.2	419.7
42.5°	674.0	646.7	621.7	598.6	574.8	551.9	528.9	508.2	486.1	462.6	440.2
40°	746.0	709.8	677.4	642.8	613.9	586.0	559.7	533.1	510.2	486.1	460.5
37.5°	825.9	785.8	743.5	699.9	660.5	623.2	592.1	562.3	533.1	508.2	481.9
35°	911.9	863.3	815.8	766.4	714.8	669.4	626.3	592.1	559.7	528.9	502.1
32.5°	1021.9	956.9	888.8	834.4	778.0	720.4	669.4	623.2	586.0	551.9	520.6
30°	1179.6	1075.9	984.5	904.5	840.7	778.0	714.8	660.5	613.9	574.8	539.1
27.5°	1389.6	1224.9	1104.4	993.7	904.5	834.4	766.4	699.9	642.8	598.6	559.3
25°	1671.1	1435.3	1246.9	1104.4	984.5	888.8	815.8	743.5	677.4	621.7	578.1
22.5°	2037.1	1708.9	1435.3	1224.9	1075.9	956.9	863.3	785.8	709.8	646.7	597.5
20°	2569.3	2037.1	1671.1	1389.6	1179.6	1021.9	911.9	825.9	746.0	674.0	615.6
17.5°	3309.2	2499.5	1928.4	1559.1	1299.9	1107.8	966.8	862.8	778.5	698.5	631.8
15°	4143.0	3061.6	2293.5	1773.8	1425.6	1186.1	1015.6	895.8	807.7	723.0	651.0
12.5°	5272.0	3694.1	2636.0	1962.1	1550.2	1270.2	1073.2	934.7	833.7	745.8	668.2
10°	6347.1	4389.3	3070.6	2226.1	1695.3	1354.6	1125.5	967.1	855.3	764.8	682.4
7.5°	7558.6	5101.0	3464.7	2437.6	1810.8	1421.5	1166.9	992.6	872.3	779.7	693.5
5°	8458.6	5625.7	3753.6	2592.0	1894.8	1470.0	1196.8	1011.1	884.6	790.4	701.5
2.5°	9014.0	5947.6	3930.0	2685.9	1945.8	1499.4	1214.9	1022.3	892.0	796.9	706.4
0°	9201.9	6056.1	3989.4	2717.5	1962.9	1509.3	1221.0	1026.0	894.5	799.1	708.0
-2.5°	9014.0	5947.6	3930.0	2685.9	1945.8	1499.4	1214.9	1022.3	892.0	796.9	706.4
-5°	8458.6	5625.7	3753.6	2592.0	1894.8	1470.0	1196.8	1011.1	884.6	790.4	701.5
-7.5°	7558.6	5101.0	3464.7	2437.6	1810.8	1421.5	1166.9	992.6	872.3	779.7	693.5
-10°	6347.1	4389.3	3070.6	2226.1	1695.3	1354.6	1125.5	967.1	855.3	764.8	682.4
-12.5°	5272.0	3694.1	2636.0	1962.1	1550.2	1270.2	1073.2	934.7	833.7	745.8	668.2
-15°	4143.0	3061.6	2293.5	1773.8	1425.6	1186.1	1015.6	895.8	807.7	723.0	651.0
-17.5°	3309.2	2499.5	1928.4	1559.1	1299.9	1107.8	966.8	862.8	778.5	698.5	631.8
-20°	2569.3	2037.1	1671.1	1389.6	1179.6	1021.9	911.9	825.9	746.0	674.0	615.6



REPORT NUMBER: P624743 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-3000K-33

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	2037.1	1708.9	1435.3	1224.9	1075.9	956.9	863.3	785.8	709.8	646.7	597.5
-25°	1671.1	1435.3	1246.9	1104.4	984.5	888.8	815.8	743.5	677.4	621.7	578.1
-27.5°	1389.6	1224.9	1104.4	993.7	904.5	834.4	766.4	699.9	642.8	598.6	559.3
-30°	1179.6	1075.9	984.5	904.5	840.7	778.0	714.8	660.5	613.9	574.8	539.1
-32.5°	1021.9	956.9	888.8	834.4	778.0	720.4	669.4	623.2	586.0	551.9	520.6
-35°	911.9	863.3	815.8	766.4	714.8	669.4	626.3	592.1	559.7	528.9	502.1
-37.5°	825.9	785.8	743.5	699.9	660.5	623.2	592.1	562.3	533.1	508.2	481.9
-40°	746.0	709.8	677.4	642.8	613.9	586.0	559.7	533.1	510.2	486.1	460.5
-42.5°	674.0	646.7	621.7	598.6	574.8	551.9	528.9	508.2	486.1	462.6	440.2
-45°	615.6	597.5	578.1	559.3	539.1	520.6	502.1	481.9	460.5	440.2	419.7
-47.5°	569.8	555.1	539.0	523.8	508.4	491.7	473.5	454.4	436.5	418.0	399.9
-50°	529.0	517.9	505.6	492.2	477.1	461.0	445.2	429.2	412.9	396.5	378.3
-52.5°	494.3	483.5	471.6	458.6	445.9	432.5	418.5	404.5	389.8	372.4	353.5
-55°	457.5	448.5	438.7	428.1	416.8	405.2	392.9	378.8	362.7	345.8	328.2
-57.5°	424.4	416.5	408.1	398.9	388.9	376.9	363.4	349.2	334.3	318.7	302.3
-60°	392.9	386.0	376.9	366.9	356.1	344.6	332.3	319.2	305.5	290.5	274.8
-62.5°	357.0	349.6	341.3	332.3	322.5	312.0	300.5	288.1	274.9	261.2	246.8
-65°	319.7	313.0	305.5	297.0	287.7	277.7	267.1	255.9	244.0	231.6	218.5
-67.5°	281.0	274.8	267.8	260.1	251.9	243.0	233.5	223.4	212.4	200.7	188.4
-70°	241.6	236.1	229.9	223.2	215.7	207.4	198.6	189.2	179.3	169.2	158.9
-72.5°	201.1	196.1	190.4	184.3	177.6	170.7	163.4	155.6	147.4	138.7	130.3
-75°	160.2	156.1	151.6	146.6	141.2	135.3	129.8	124.1	118.2	111.9	105.4
-77.5°	122.5	119.6	116.4	112.9	109.1	105.0	100.6	96.0	91.3	86.4	81.3
-80°	89.2	87.1	84.7	82.0	79.2	76.1	72.8	69.3	65.6	62.1	59.1
-82.5°	59.0	57.8	56.4	54.9	53.3	51.6	49.8	47.8	45.7	43.5	41.2
-85°	35.6	35.0	34.2	33.4	32.5	31.5	30.5	29.4	28.3	27.0	25.8
-87.5°	16.0	15.7	15.4	15.1	14.7	14.3	13.9	13.5	13.0	12.5	12.0
-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: P624743 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-3000K-33

**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°	11.5	10.9	10.3	9.7	9.1	8.5	7.8	7.2	6.5	5.8	5.1
85°	24.4	23.0	21.6	20.1	18.6	17.0	15.7	14.4	13.0	11.6	10.2
82.5°	38.8	36.6	34.4	32.2	29.9	27.5	25.1	22.6	20.1	17.5	15.3
80°	55.8	52.5	49.1	45.5	41.8	38.0	34.8	31.5	28.1	24.7	21.2
77.5°	75.9	70.3	64.6	59.9	55.3	50.5	45.7	40.7	36.1	31.8	27.4
75°	98.5	91.8	84.8	77.7	70.3	62.9	57.1	51.2	45.2	39.0	33.7
72.5°	122.3	114.0	105.4	96.6	88.0	79.2	70.1	61.6	54.5	47.4	40.1
70°	148.1	136.9	126.6	116.4	106.0	95.4	85.1	74.6	63.9	55.7	47.4
67.5°	175.6	163.0	150.0	136.5	124.4	112.3	100.1	88.1	76.1	63.9	54.5
65°	204.3	189.5	174.3	159.4	144.1	129.2	115.5	101.7	88.1	74.6	61.6
62.5°	232.0	216.3	199.5	182.3	165.1	147.9	130.8	115.5	100.1	85.1	70.1
60°	258.4	241.6	224.2	205.6	186.3	167.0	147.9	129.2	112.3	95.4	79.2
57.5°	284.6	266.3	247.4	228.1	207.6	186.3	165.1	144.1	124.4	106.0	88.0
55°	310.0	290.5	270.2	249.4	228.1	205.6	182.3	159.4	136.5	116.4	96.6
52.5°	334.0	313.8	292.5	270.2	247.4	224.2	199.5	174.3	150.0	126.6	105.4
50°	357.4	335.9	313.8	290.5	266.3	241.6	216.3	189.5	163.0	136.9	114.0
47.5°	380.3	357.4	334.0	310.0	284.6	258.4	232.0	204.3	175.6	148.1	122.3
45°	399.9	378.3	353.5	328.2	302.3	274.8	246.8	218.5	188.4	158.9	130.3
42.5°	418.0	396.5	372.4	345.8	318.7	290.5	261.2	231.6	200.7	169.2	138.7
40°	436.5	412.9	389.8	362.7	334.3	305.5	274.9	244.0	212.4	179.3	147.4
37.5°	454.4	429.2	404.5	378.8	349.2	319.2	288.1	255.9	223.4	189.2	155.6
35°	473.5	445.2	418.5	392.9	363.4	332.3	300.5	267.1	233.5	198.6	163.4
32.5°	491.7	461.0	432.5	405.2	376.9	344.6	312.0	277.7	243.0	207.4	170.7
30°	508.4	477.1	445.9	416.8	388.9	356.1	322.5	287.7	251.9	215.7	177.6
27.5°	523.8	492.2	458.6	428.1	398.9	366.9	332.3	297.0	260.1	223.2	184.3
25°	539.0	505.6	471.6	438.7	408.1	376.9	341.3	305.5	267.8	229.9	190.4
22.5°	555.1	517.9	483.5	448.5	416.5	386.0	349.6	313.0	274.8	236.1	196.1
20°	569.8	529.0	494.3	457.5	424.4	392.9	357.0	319.7	281.0	241.6	201.1
17.5°	583.2	540.0	503.5	466.4	431.6	399.1	363.7	325.7	286.6	246.5	205.6
15°	596.4	550.6	511.5	474.1	437.9	404.5	369.5	330.9	291.5	250.8	209.5
12.5°	607.7	559.7	518.4	480.8	443.3	409.1	374.4	335.3	295.7	254.4	212.9
10°	617.0	567.3	524.0	486.2	447.7	412.9	378.5	339.0	299.1	257.4	215.6
7.5°	624.3	573.2	528.5	490.5	451.2	415.9	381.7	341.8	301.8	259.8	217.7
5°	629.6	577.4	531.6	493.5	453.7	418.0	384.0	343.9	303.7	261.5	219.3
2.5°	632.7	579.9	533.6	495.4	455.2	419.3	385.3	345.1	304.8	262.5	220.2
0°	633.8	580.8	534.2	496.0	455.7	419.7	385.8	345.5	305.2	262.8	220.5
-2.5°	632.7	579.9	533.6	495.4	455.2	419.3	385.3	345.1	304.8	262.5	220.2
-5°	629.6	577.4	531.6	493.5	453.7	418.0	384.0	343.9	303.7	261.5	219.3
-7.5°	624.3	573.2	528.5	490.5	451.2	415.9	381.7	341.8	301.8	259.8	217.7
-10°	617.0	567.3	524.0	486.2	447.7	412.9	378.5	339.0	299.1	257.4	215.6
-12.5°	607.7	559.7	518.4	480.8	443.3	409.1	374.4	335.3	295.7	254.4	212.9
-15°	596.4	550.6	511.5	474.1	437.9	404.5	369.5	330.9	291.5	250.8	209.5
-17.5°	583.2	540.0	503.5	466.4	431.6	399.1	363.7	325.7	286.6	246.5	205.6
-20°	569.8	529.0	494.3	457.5	424.4	392.9	357.0	319.7	281.0	241.6	201.1

Classified

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1121 Highway 74 South  
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Scaled Data Report



REPORT NUMBER: P624743 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-3000K-33

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	555.1	517.9	483.5	448.5	416.5	386.0	349.6	313.0	274.8	236.1	196.1
-25°	539.0	505.6	471.6	438.7	408.1	376.9	341.3	305.5	267.8	229.9	190.4
-27.5°	523.8	492.2	458.6	428.1	398.9	366.9	332.3	297.0	260.1	223.2	184.3
-30°	508.4	477.1	445.9	416.8	388.9	356.1	322.5	287.7	251.9	215.7	177.6
-32.5°	491.7	461.0	432.5	405.2	376.9	344.6	312.0	277.7	243.0	207.4	170.7
-35°	473.5	445.2	418.5	392.9	363.4	332.3	300.5	267.1	233.5	198.6	163.4
-37.5°	454.4	429.2	404.5	378.8	349.2	319.2	288.1	255.9	223.4	189.2	155.6
-40°	436.5	412.9	389.8	362.7	334.3	305.5	274.9	244.0	212.4	179.3	147.4
-42.5°	418.0	396.5	372.4	345.8	318.7	290.5	261.2	231.6	200.7	169.2	138.7
-45°	399.9	378.3	353.5	328.2	302.3	274.8	246.8	218.5	188.4	158.9	130.3
-47.5°	380.3	357.4	334.0	310.0	284.6	258.4	232.0	204.3	175.6	148.1	122.3
-50°	357.4	335.9	313.8	290.5	266.3	241.6	216.3	189.5	163.0	136.9	114.0
-52.5°	334.0	313.8	292.5	270.2	247.4	224.2	199.5	174.3	150.0	126.6	105.4
-55°	310.0	290.5	270.2	249.4	228.1	205.6	182.3	159.4	136.5	116.4	96.6
-57.5°	284.6	266.3	247.4	228.1	207.6	186.3	165.1	144.1	124.4	106.0	88.0
-60°	258.4	241.6	224.2	205.6	186.3	167.0	147.9	129.2	112.3	95.4	79.2
-62.5°	232.0	216.3	199.5	182.3	165.1	147.9	130.8	115.5	100.1	85.1	70.1
-65°	204.3	189.5	174.3	159.4	144.1	129.2	115.5	101.7	88.1	74.6	61.6
-67.5°	175.6	163.0	150.0	136.5	124.4	112.3	100.1	88.1	76.1	63.9	54.5
-70°	148.1	136.9	126.6	116.4	106.0	95.4	85.1	74.6	63.9	55.7	47.4
-72.5°	122.3	114.0	105.4	96.6	88.0	79.2	70.1	61.6	54.5	47.4	40.1
-75°	98.5	91.8	84.8	77.7	70.3	62.9	57.1	51.2	45.2	39.0	33.7
-77.5°	75.9	70.3	64.6	59.9	55.3	50.5	45.7	40.7	36.1	31.8	27.4
-80°	55.8	52.5	49.1	45.5	41.8	38.0	34.8	31.5	28.1	24.7	21.2
-82.5°	38.8	36.6	34.4	32.2	29.9	27.5	25.1	22.6	20.1	17.5	15.3
-85°	24.4	23.0	21.6	20.1	18.6	17.0	15.7	14.4	13.0	11.6	10.2
-87.5°	11.5	10.9	10.3	9.7	9.1	8.5	7.8	7.2	6.5	5.8	5.1
-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: P624743 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-3000K-33

**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°	4.4	3.7	3.0	2.2	1.5	0.7	0.0
85°	8.8	7.4	5.9	4.4	3.0	1.5	0.0
82.5°	13.2	11.0	8.8	6.6	4.4	2.2	0.0
80°	17.6	14.6	11.7	8.8	5.9	3.0	0.0
77.5°	23.0	18.6	14.6	11.0	7.4	3.7	0.0
75°	28.4	23.0	17.6	13.2	8.8	4.4	0.0
72.5°	33.7	27.4	21.2	15.3	10.2	5.1	0.0
70°	39.0	31.8	24.7	17.5	11.6	5.8	0.0
67.5°	45.2	36.1	28.1	20.1	13.0	6.5	0.0
65°	51.2	40.7	31.5	22.6	14.4	7.2	0.0
62.5°	57.1	45.7	34.8	25.1	15.7	7.8	0.0
60°	62.9	50.5	38.0	27.5	17.0	8.5	0.0
57.5°	70.3	55.3	41.8	29.9	18.6	9.1	0.0
55°	77.7	59.9	45.5	32.2	20.1	9.7	0.0
52.5°	84.8	64.6	49.1	34.4	21.6	10.3	0.0
50°	91.8	70.3	52.5	36.6	23.0	10.9	0.0
47.5°	98.5	75.9	55.8	38.8	24.4	11.5	0.0
45°	105.4	81.3	59.1	41.2	25.8	12.0	0.0
42.5°	111.9	86.4	62.1	43.5	27.0	12.5	0.0
40°	118.2	91.3	65.6	45.7	28.3	13.0	0.0
37.5°	124.1	96.0	69.3	47.8	29.4	13.5	0.0
35°	129.8	100.6	72.8	49.8	30.5	13.9	0.0
32.5°	135.3	105.0	76.1	51.6	31.5	14.3	0.0
30°	141.2	109.1	79.2	53.3	32.5	14.7	0.0
27.5°	146.6	112.9	82.0	54.9	33.4	15.1	0.0
25°	151.6	116.4	84.7	56.4	34.2	15.4	0.0
22.5°	156.1	119.6	87.1	57.8	35.0	15.7	0.0
20°	160.2	122.5	89.2	59.0	35.6	16.0	0.0
17.5°	163.9	125.0	91.2	60.1	36.2	16.2	0.0
15°	167.0	127.3	92.8	61.0	36.8	16.4	0.0
12.5°	169.7	129.2	94.3	61.8	37.2	16.6	0.0
10°	171.9	130.7	95.4	62.4	37.6	16.7	0.0
7.5°	173.7	131.9	96.3	62.9	37.8	16.9	0.0
5°	174.9	132.8	97.0	63.3	38.0	16.9	0.0
2.5°	175.7	133.3	97.4	63.5	38.2	17.0	0.0
0°	175.9	133.5	97.5	63.6	38.2	17.0	0.0
-2.5°	175.7	133.3	97.4	63.5	38.2	17.0	0.0
-5°	174.9	132.8	97.0	63.3	38.0	16.9	0.0
-7.5°	173.7	131.9	96.3	62.9	37.8	16.9	0.0
-10°	171.9	130.7	95.4	62.4	37.6	16.7	0.0
-12.5°	169.7	129.2	94.3	61.8	37.2	16.6	0.0
-15°	167.0	127.3	92.8	61.0	36.8	16.4	0.0
-17.5°	163.9	125.0	91.2	60.1	36.2	16.2	0.0
-20°	160.2	122.5	89.2	59.0	35.6	16.0	0.0

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Scaled Data Report



REPORT NUMBER: P624743 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-3000K-33

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	156.1	119.6	87.1	57.8	35.0	15.7	0.0
-25°	151.6	116.4	84.7	56.4	34.2	15.4	0.0
-27.5°	146.6	112.9	82.0	54.9	33.4	15.1	0.0
-30°	141.2	109.1	79.2	53.3	32.5	14.7	0.0
-32.5°	135.3	105.0	76.1	51.6	31.5	14.3	0.0
-35°	129.8	100.6	72.8	49.8	30.5	13.9	0.0
-37.5°	124.1	96.0	69.3	47.8	29.4	13.5	0.0
-40°	118.2	91.3	65.6	45.7	28.3	13.0	0.0
-42.5°	111.9	86.4	62.1	43.5	27.0	12.5	0.0
-45°	105.4	81.3	59.1	41.2	25.8	12.0	0.0
-47.5°	98.5	75.9	55.8	38.8	24.4	11.5	0.0
-50°	91.8	70.3	52.5	36.6	23.0	10.9	0.0
-52.5°	84.8	64.6	49.1	34.4	21.6	10.3	0.0
-55°	77.7	59.9	45.5	32.2	20.1	9.7	0.0
-57.5°	70.3	55.3	41.8	29.9	18.6	9.1	0.0
-60°	62.9	50.5	38.0	27.5	17.0	8.5	0.0
-62.5°	57.1	45.7	34.8	25.1	15.7	7.8	0.0
-65°	51.2	40.7	31.5	22.6	14.4	7.2	0.0
-67.5°	45.2	36.1	28.1	20.1	13.0	6.5	0.0
-70°	39.0	31.8	24.7	17.5	11.6	5.8	0.0
-72.5°	33.7	27.4	21.2	15.3	10.2	5.1	0.0
-75°	28.4	23.0	17.6	13.2	8.8	4.4	0.0
-77.5°	23.0	18.6	14.6	11.0	7.4	3.7	0.0
-80°	17.6	14.6	11.7	8.8	5.9	3.0	0.0
-82.5°	13.2	11.0	8.8	6.6	4.4	2.2	0.0
-85°	8.8	7.4	5.9	4.4	3.0	1.5	0.0
-87.5°	4.4	3.7	3.0	2.2	1.5	0.7	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)