

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: P624748 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-VN-04-E-PRO-4000K-11**

Issue Date: 11/8/2022



Test Information

Test Method: LM-79-08
Report Number: P624748 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-121-55)
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-11
Description: EPHESUS LUMAVISION CCT TUNING FLOOD
3000K AND TYPE 11 OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17747.4 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')

Beam Angle (50%): 8.3°H x 8.9°V
Beam Lumens: 7982.9 lumens
Beam Efficiency: 45.0%

Field Angle (10%): 14.9°H x 14.6°V
Field Lumens: 12592.5 lumens
Field Efficiency: 71.0%

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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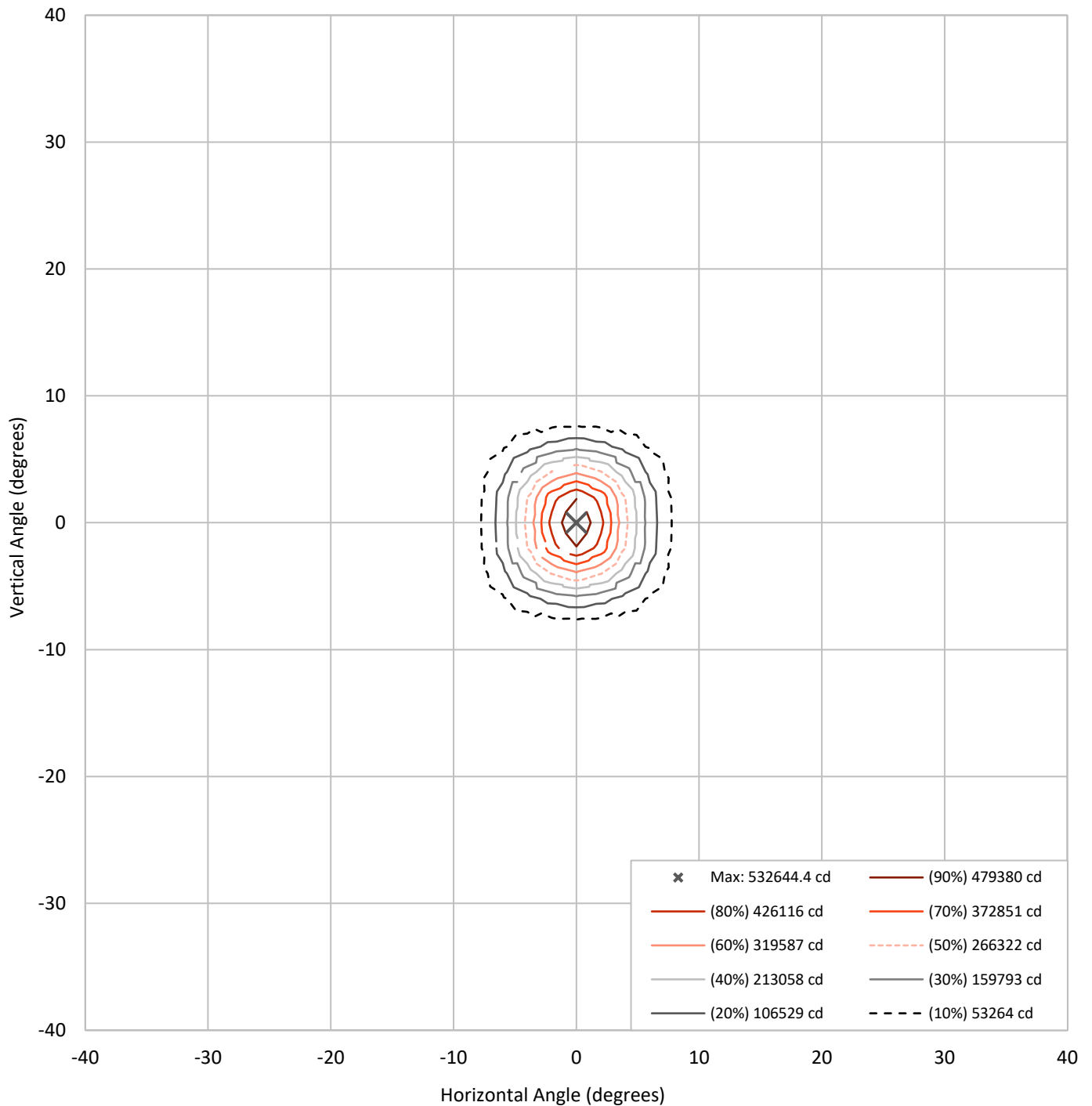
Scaled Data Report



REPORT NUMBER: P624748 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-11

Iso-Candela Plot





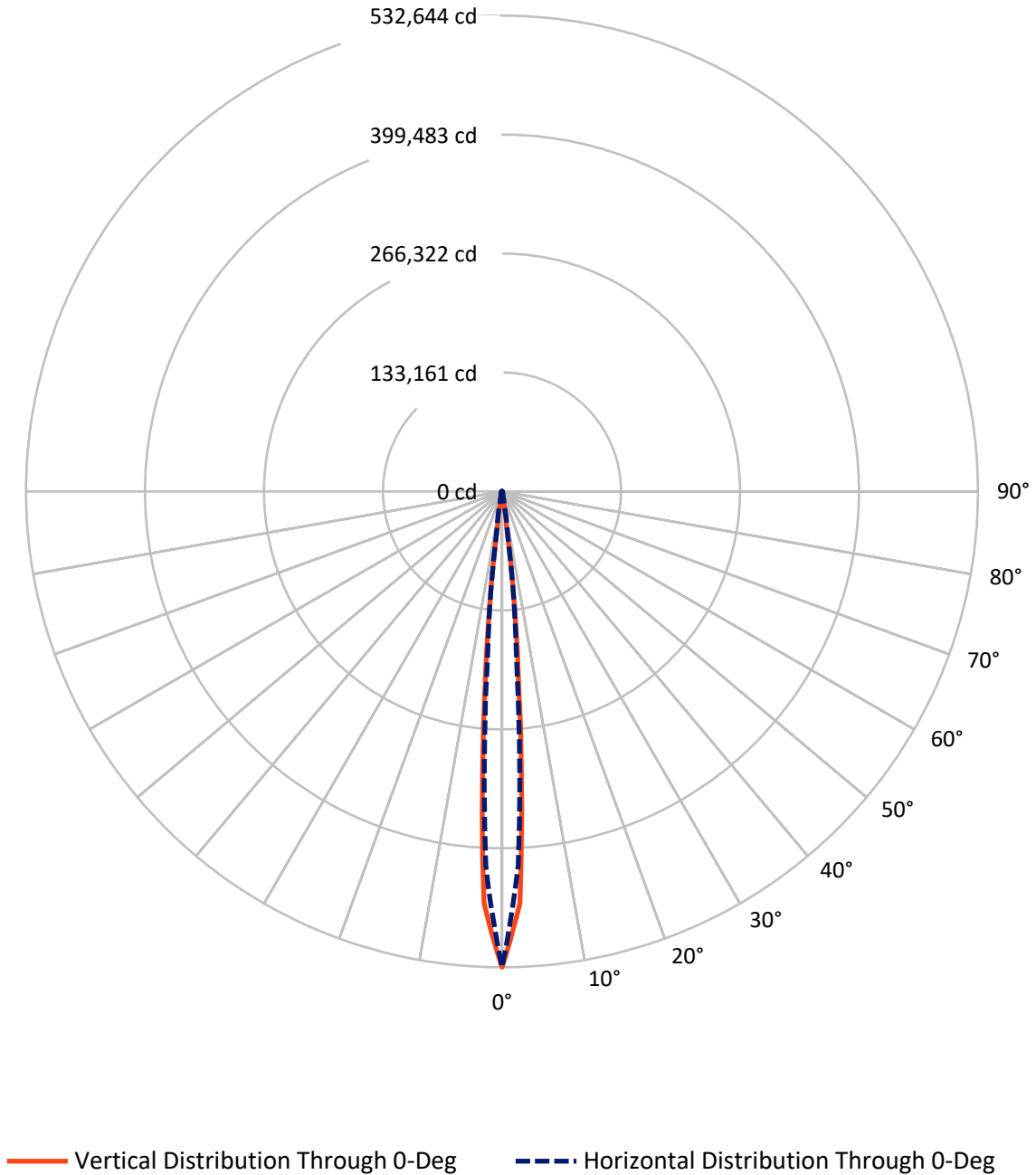
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Lumen Table

90	0.1	0.7	2.4	5.5	9.6	5.5	2.4	0.7	0.1							
80	0.1	0.7	2.4	5.5	9.6	5.5	2.4	0.7	0.1							
70	0.4	0.4	1.2	2.5	3.8	4.7	7.7	14.2	14.2	7.7	4.7	3.8	2.5	1.2	0.4	0.4
60		0.9	2.2	4.5	7.1	9.2	12.3	17.4	17.4	12.3	9.2	7.1	4.5	2.2	0.9	
50	1.2	1.6	3.4	6.9	11.6	17.1	22.3	27.3	27.3	22.3	17.1	11.6	6.9	3.4	1.6	1.2
40		2.5	4.7	9.9	17.9	24.0	26.6	28.3	28.3	26.6	24.0	17.9	9.9	4.7	2.5	
30	2.4	3.6	6.5	13.9	21.9	25.2	33.3	44.3	44.3	33.3	25.2	21.9	13.9	6.5	3.6	2.4
20		4.9	9.2	18.4	24.1	32.3	64.8	124.6	124.6	64.8	32.3	24.1	18.4	9.2	4.9	
10	2.8	5.6	11.2	20.8	25.3	42.6	129.1	3463.9	3463.9	129.1	42.6	25.3	20.8	11.2	5.6	2.8
0		5.6	11.2	20.8	25.3	42.6	129.1	3463.9	3463.9	129.1	42.6	25.3	20.8	11.2	5.6	
-10	2.4	4.9	9.2	18.4	24.1	32.3	64.8	124.6	124.6	64.8	32.3	24.1	18.4	9.2	4.9	2.4
-20		3.6	6.5	13.9	21.9	25.2	33.3	44.3	44.3	33.3	25.2	21.9	13.9	6.5	3.6	
-30	1.2	2.5	4.7	9.9	17.9	24.0	26.6	28.3	28.3	26.6	24.0	17.9	9.9	4.7	2.5	1.2
-40		1.6	3.4	6.9	11.6	17.1	22.3	27.3	27.3	22.3	17.1	11.6	6.9	3.4	1.6	
-50	0.4	0.9	2.2	4.5	7.1	9.2	12.3	17.4	17.4	12.3	9.2	7.1	4.5	2.2	0.9	0.4
-60		0.4	1.2	2.5	3.8	4.7	7.7	14.2	14.2	7.7	4.7	3.8	2.5	1.2	0.4	
-70	0.1	0.7	2.4	5.5	9.6	5.5	2.4	0.7	0.1							
-80		0.1	0.7	2.4	5.5	9.6	5.5	2.4	0.7	0.1						
-90	0.1	0.7	2.4	5.5	9.6	5.5	2.4	0.7	0.1							

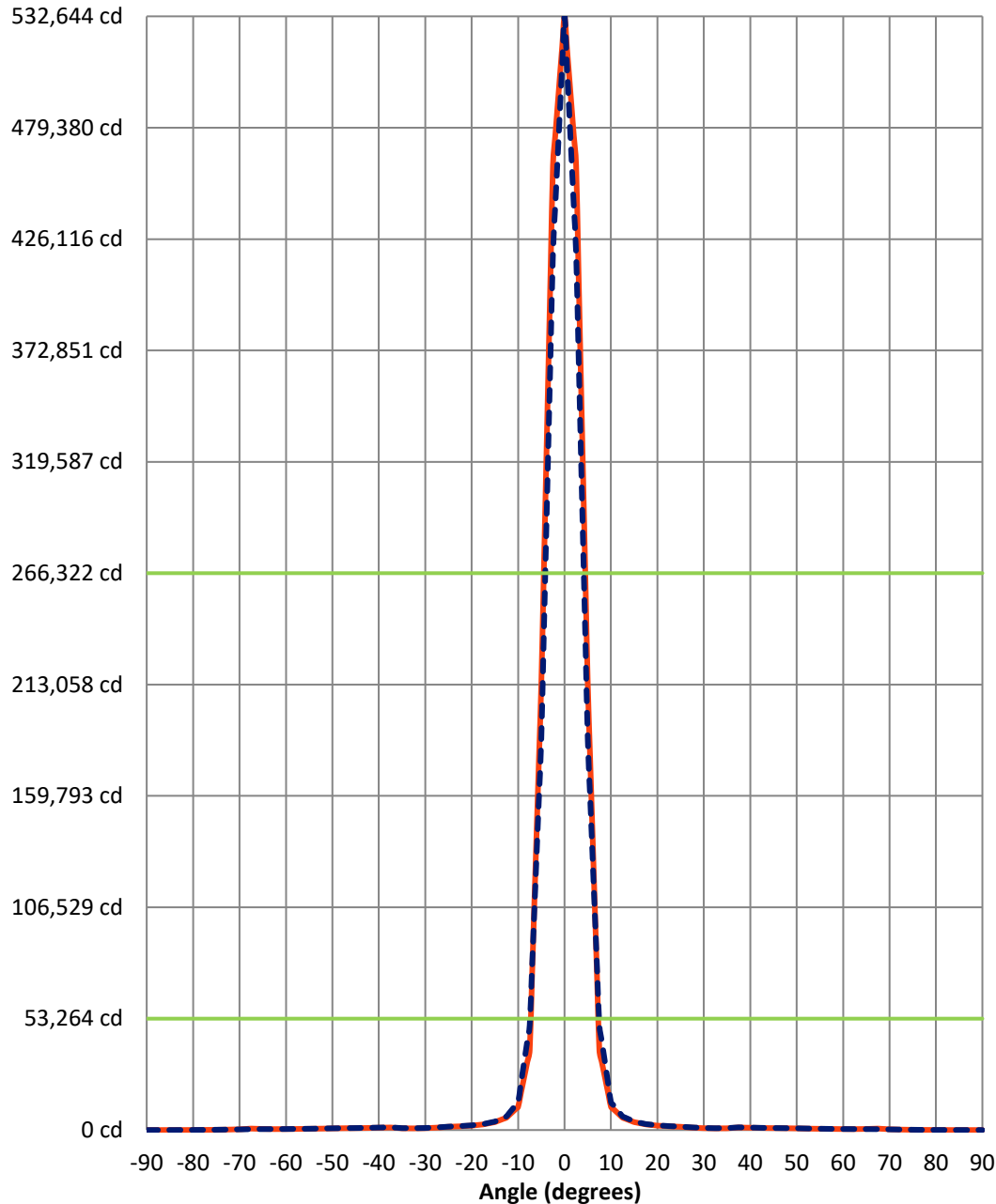
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
H Angle: 8.3°
V Angle: 8.9°
Lumens: 7982.9
Efficiency: 45.0%

Field:
H Angle: 14.9°
V Angle: 14.6°
Lumens: 12592.5
Efficiency: 71.0%

Spill:
Lumens: 5154.9
Efficiency: 29.0%

— 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	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	1.9
85°	0.0	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.1	3.5	3.9
82.5°	0.0	0.6	1.2	1.8	2.4	3.0	3.6	4.1	4.6	4.6	4.6
80°	0.0	0.8	1.6	2.4	3.2	4.0	4.6	4.6	4.6	4.6	4.6
77.5°	0.0	1.0	2.0	3.0	4.0	4.6	4.6	4.6	4.6	4.6	6.0
75°	0.0	1.2	2.4	3.6	4.6	4.6	4.6	4.6	5.0	8.4	11.8
72.5°	0.0	1.4	2.8	4.1	4.6	4.6	4.6	5.7	9.7	13.6	17.5
70°	0.0	1.6	3.1	4.6	4.6	4.6	5.1	9.7	14.2	18.7	22.0
67.5°	0.0	1.8	3.5	4.6	4.6	4.6	8.6	13.6	18.7	23.4	26.4
65°	0.0	1.9	3.9	4.6	4.6	6.2	12.1	17.5	23.6	28.3	32.2
62.5°	0.0	2.1	4.2	4.6	4.6	9.2	15.6	22.1	28.7	34.0	40.7
60°	0.0	2.3	4.6	4.6	4.6	12.3	19.1	27.0	33.8	42.4	49.4
57.5°	0.0	2.5	4.6	4.6	7.0	15.4	23.9	32.1	41.3	51.0	59.6
55°	0.0	2.6	4.6	4.6	9.5	18.4	29.0	37.5	49.5	60.1	70.5
52.5°	0.0	2.8	4.6	4.6	12.0	21.6	34.2	45.5	57.8	70.5	81.7
50°	0.0	3.0	4.6	4.6	14.4	26.2	39.5	54.0	66.5	81.1	94.6
47.5°	0.0	3.1	4.6	5.0	16.8	30.9	45.2	62.9	76.1	91.8	108.3
45°	0.0	3.3	4.6	6.8	19.1	35.5	53.3	72.2	87.6	104.8	122.6
42.5°	0.0	3.4	4.6	8.5	21.3	40.1	61.5	82.3	99.6	118.3	139.6
40°	0.0	3.5	4.6	10.1	24.3	44.8	69.8	93.1	112.9	132.5	157.6
37.5°	0.0	3.6	4.6	11.6	27.9	49.4	78.2	104.2	128.0	150.5	176.4
35°	0.0	3.8	4.6	13.1	31.4	55.4	86.8	115.5	143.4	170.8	194.4
32.5°	0.0	3.9	4.6	14.4	34.8	62.1	95.5	126.9	159.0	191.7	216.7
30°	0.0	4.0	4.6	15.7	38.1	68.7	104.8	138.9	174.9	213.1	242.1
27.5°	0.0	4.1	4.6	16.9	40.5	75.1	113.9	151.9	191.7	234.8	270.4
25°	0.0	4.2	4.6	17.9	42.6	81.4	123.0	164.9	209.7	258.0	301.1
22.5°	0.0	4.2	4.6	18.9	44.2	86.4	131.9	177.7	227.7	282.9	326.2
20°	0.0	4.3	4.6	19.8	45.6	88.2	140.6	190.2	245.5	309.0	351.2
17.5°	0.0	4.4	4.6	20.6	46.7	89.2	145.0	202.5	262.9	335.9	375.9
15°	0.0	4.4	4.6	21.3	47.4	89.5	146.6	211.0	279.9	363.3	400.3
12.5°	0.0	4.5	4.6	21.9	47.9	89.1	147.7	214.8	290.4	390.6	424.3
10°	0.0	4.5	4.6	22.3	48.0	88.1	148.2	218.0	295.1	400.9	441.0
7.5°	0.0	4.6	4.6	22.7	48.0	86.5	148.1	220.5	298.6	407.0	442.9
5°	0.0	4.6	4.6	23.0	47.7	84.4	147.4	222.2	300.9	411.0	444.4
2.5°	0.0	4.6	4.6	23.1	47.1	81.8	146.0	223.0	301.9	413.1	445.3
0°	0.0	4.6	4.6	23.2	46.4	78.9	143.9	222.8	301.7	413.1	445.6
-2.5°	0.0	4.6	4.6	23.1	47.1	81.8	146.0	223.0	301.9	413.1	445.3
-5°	0.0	4.6	4.6	23.0	47.7	84.4	147.4	222.2	300.9	411.0	444.4
-7.5°	0.0	4.6	4.6	22.7	48.0	86.5	148.1	220.5	298.6	407.0	442.9
-10°	0.0	4.5	4.6	22.3	48.0	88.1	148.2	218.0	295.1	400.9	441.0
-12.5°	0.0	4.5	4.6	21.9	47.9	89.1	147.7	214.8	290.4	390.6	424.3
-15°	0.0	4.4	4.6	21.3	47.4	89.5	146.6	211.0	279.9	363.3	400.3
-17.5°	0.0	4.4	4.6	20.6	46.7	89.2	145.0	202.5	262.9	335.9	375.9
-20°	0.0	4.3	4.6	19.8	45.6	88.2	140.6	190.2	245.5	309.0	351.2

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CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-11

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	4.2	4.6	18.9	44.2	86.4	131.9	177.7	227.7	282.9	326.2
-25°	0.0	4.2	4.6	17.9	42.6	81.4	123.0	164.9	209.7	258.0	301.1
-27.5°	0.0	4.1	4.6	16.9	40.5	75.1	113.9	151.9	191.7	234.8	270.4
-30°	0.0	4.0	4.6	15.7	38.1	68.7	104.8	138.9	174.9	213.1	242.1
-32.5°	0.0	3.9	4.6	14.4	34.8	62.1	95.5	126.9	159.0	191.7	216.7
-35°	0.0	3.8	4.6	13.1	31.4	55.4	86.8	115.5	143.4	170.8	194.4
-37.5°	0.0	3.6	4.6	11.6	27.9	49.4	78.2	104.2	128.0	150.5	176.4
-40°	0.0	3.5	4.6	10.1	24.3	44.8	69.8	93.1	112.9	132.5	157.6
-42.5°	0.0	3.4	4.6	8.5	21.3	40.1	61.5	82.3	99.6	118.3	139.6
-45°	0.0	3.3	4.6	6.8	19.1	35.5	53.3	72.2	87.6	104.8	122.6
-47.5°	0.0	3.1	4.6	5.0	16.8	30.9	45.2	62.9	76.1	91.8	108.3
-50°	0.0	3.0	4.6	4.6	14.4	26.2	39.5	54.0	66.5	81.1	94.6
-52.5°	0.0	2.8	4.6	4.6	12.0	21.6	34.2	45.5	57.8	70.5	81.7
-55°	0.0	2.6	4.6	4.6	9.5	18.4	29.0	37.5	49.5	60.1	70.5
-57.5°	0.0	2.5	4.6	4.6	7.0	15.4	23.9	32.1	41.3	51.0	59.6
-60°	0.0	2.3	4.6	4.6	4.6	12.3	19.1	27.0	33.8	42.4	49.4
-62.5°	0.0	2.1	4.2	4.6	4.6	9.2	15.6	22.1	28.7	34.0	40.7
-65°	0.0	1.9	3.9	4.6	4.6	6.2	12.1	17.5	23.6	28.3	32.2
-67.5°	0.0	1.8	3.5	4.6	4.6	4.6	8.6	13.6	18.7	23.4	26.4
-70°	0.0	1.6	3.1	4.6	4.6	4.6	5.1	9.7	14.2	18.7	22.0
-72.5°	0.0	1.4	2.8	4.1	4.6	4.6	4.6	5.7	9.7	13.6	17.5
-75°	0.0	1.2	2.4	3.6	4.6	4.6	4.6	4.6	5.0	8.4	11.8
-77.5°	0.0	1.0	2.0	3.0	4.0	4.6	4.6	4.6	4.6	4.6	6.0
-80°	0.0	0.8	1.6	2.4	3.2	4.0	4.6	4.6	4.6	4.6	4.6
-82.5°	0.0	0.6	1.2	1.8	2.4	3.0	3.6	4.1	4.6	4.6	4.6
-85°	0.0	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.1	3.5	3.9
-87.5°	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	1.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P624748 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-11

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°	2.1	2.3	2.5	2.6	2.8	3.0	3.1	3.3	2.6	1.8	0.9
85°	4.2	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.0	3.5	3.2
82.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.8	5.7	6.5	7.3	8.1
80°	4.6	4.6	6.1	7.3	8.6	9.8	11.1	12.2	13.4	14.9	16.5
77.5°	8.5	10.4	11.8	12.8	14.4	17.6	20.7	23.6	25.9	27.5	28.7
75°	14.4	16.3	18.5	21.7	25.5	29.3	33.1	36.7	39.8	43.5	47.7
72.5°	20.0	22.7	26.5	31.4	37.5	42.4	46.5	50.0	56.6	64.8	71.2
70°	24.6	28.7	35.6	43.5	50.9	56.5	64.7	74.9	85.7	91.9	95.8
67.5°	29.6	37.5	46.1	55.4	64.8	74.2	86.0	97.5	108.1	113.1	117.7
65°	37.4	46.5	56.8	67.5	77.9	90.5	103.2	115.5	126.4	132.7	139.4
62.5°	45.4	56.2	67.9	79.7	92.8	106.5	120.3	132.4	142.5	153.8	166.7
60°	55.9	66.2	79.1	92.8	107.7	123.9	137.9	153.3	166.3	178.1	198.4
57.5°	67.0	76.0	90.2	106.1	124.0	143.6	164.2	180.3	196.4	213.4	233.8
55°	78.7	85.4	101.6	120.1	142.2	171.3	193.3	211.9	230.7	245.9	263.7
52.5°	91.6	97.2	113.6	135.7	164.6	195.6	222.4	241.8	259.1	275.7	293.1
50°	105.2	113.3	125.7	153.8	184.5	216.7	249.0	268.4	287.9	306.0	324.6
47.5°	121.5	130.9	140.2	170.0	201.9	235.5	268.8	296.2	317.3	340.0	361.9
45°	139.3	150.6	160.5	184.1	217.8	252.7	289.1	324.5	350.3	377.5	412.9
42.5°	158.3	170.6	181.9	196.6	232.9	270.4	309.1	350.2	386.1	424.6	469.0
40°	176.6	190.4	202.8	217.6	247.5	287.8	330.9	376.0	428.5	478.8	531.2
37.5°	194.5	209.1	223.4	241.2	262.5	306.3	352.4	408.7	472.4	538.5	613.3
35°	212.1	227.2	244.6	264.7	288.0	325.4	381.1	444.7	521.1	610.2	683.0
32.5°	228.6	244.7	265.0	287.4	316.3	352.5	409.2	488.5	579.5	672.1	731.6
30°	249.2	262.7	284.6	308.7	344.1	390.8	448.6	533.6	639.8	712.4	766.3
27.5°	277.1	281.0	303.5	332.3	372.7	428.8	501.2	589.4	682.3	749.1	796.6
25°	304.9	310.9	321.1	356.1	406.6	473.2	556.4	660.3	720.6	777.0	827.0
22.5°	332.3	339.8	352.9	378.8	439.7	518.9	619.9	717.1	777.8	811.6	857.4
20°	359.0	369.3	388.0	420.0	474.6	562.8	681.7	772.9	833.8	867.8	899.5
17.5°	384.9	398.7	424.0	464.4	526.7	615.9	739.8	829.8	893.4	916.7	954.4
15°	410.0	427.9	459.2	506.4	576.8	675.7	787.9	879.4	945.2	961.4	1005.2
12.5°	434.3	456.8	493.5	546.0	623.7	728.0	829.3	911.4	969.3	1004.9	1053.6
10°	458.0	485.2	526.8	583.2	667.2	773.4	864.0	935.7	988.0	1037.7	1098.1
7.5°	461.4	499.5	554.1	618.2	707.4	812.4	892.6	953.5	1009.0	1069.5	1146.5
5°	461.2	498.2	553.5	624.2	722.4	835.1	912.0	965.7	1030.7	1099.6	1195.8
2.5°	460.6	495.7	551.5	624.1	720.4	837.4	910.1	966.7	1040.2	1139.7	1243.5
0°	459.6	492.1	547.8	622.0	714.9	835.6	905.2	965.6	1044.5	1183.7	1285.9
-2.5°	460.6	495.7	551.5	624.1	720.4	837.4	910.1	966.7	1040.2	1139.7	1243.5
-5°	461.2	498.2	553.5	624.2	722.4	835.1	912.0	965.7	1030.7	1099.6	1195.8
-7.5°	461.4	499.5	554.1	618.2	707.4	812.4	892.6	953.5	1009.0	1069.5	1146.5
-10°	458.0	485.2	526.8	583.2	667.2	773.4	864.0	935.7	988.0	1037.7	1098.1
-12.5°	434.3	456.8	493.5	546.0	623.7	728.0	829.3	911.4	969.3	1004.9	1053.6
-15°	410.0	427.9	459.2	506.4	576.8	675.7	787.9	879.4	945.2	961.4	1005.2
-17.5°	384.9	398.7	424.0	464.4	526.7	615.9	739.8	829.8	893.4	916.7	954.4
-20°	359.0	369.3	388.0	420.0	474.6	562.8	681.7	772.9	833.8	867.8	899.5

Classified

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

Scaled Data Report



REPORT NUMBER: P624748 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-11

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	332.3	339.8	352.9	378.8	439.7	518.9	619.9	717.1	777.8	811.6	857.4
-25°	304.9	310.9	321.1	356.1	406.6	473.2	556.4	660.3	720.6	777.0	827.0
-27.5°	277.1	281.0	303.5	332.3	372.7	428.8	501.2	589.4	682.3	749.1	796.6
-30°	249.2	262.7	284.6	308.7	344.1	390.8	448.6	533.6	639.8	712.4	766.3
-32.5°	228.6	244.7	265.0	287.4	316.3	352.5	409.2	488.5	579.5	672.1	731.6
-35°	212.1	227.2	244.6	264.7	288.0	325.4	381.1	444.7	521.1	610.2	683.0
-37.5°	194.5	209.1	223.4	241.2	262.5	306.3	352.4	408.7	472.4	538.5	613.3
-40°	176.6	190.4	202.8	217.6	247.5	287.8	330.9	376.0	428.5	478.8	531.2
-42.5°	158.3	170.6	181.9	196.6	232.9	270.4	309.1	350.2	386.1	424.6	469.0
-45°	139.3	150.6	160.5	184.1	217.8	252.7	289.1	324.5	350.3	377.5	412.9
-47.5°	121.5	130.9	140.2	170.0	201.9	235.5	268.8	296.2	317.3	340.0	361.9
-50°	105.2	113.3	125.7	153.8	184.5	216.7	249.0	268.4	287.9	306.0	324.6
-52.5°	91.6	97.2	113.6	135.7	164.6	195.6	222.4	241.8	259.1	275.7	293.1
-55°	78.7	85.4	101.6	120.1	142.2	171.3	193.3	211.9	230.7	245.9	263.7
-57.5°	67.0	76.0	90.2	106.1	124.0	143.6	164.2	180.3	196.4	213.4	233.8
-60°	55.9	66.2	79.1	92.8	107.7	123.9	137.9	153.3	166.3	178.1	198.4
-62.5°	45.4	56.2	67.9	79.7	92.8	106.5	120.3	132.4	142.5	153.8	166.7
-65°	37.4	46.5	56.8	67.5	77.9	90.5	103.2	115.5	126.4	132.7	139.4
-67.5°	29.6	37.5	46.1	55.4	64.8	74.2	86.0	97.5	108.1	113.1	117.7
-70°	24.6	28.7	35.6	43.5	50.9	56.5	64.7	74.9	85.7	91.9	95.8
-72.5°	20.0	22.7	26.5	31.4	37.5	42.4	46.5	50.0	56.6	64.8	71.2
-75°	14.4	16.3	18.5	21.7	25.5	29.3	33.1	36.7	39.8	43.5	47.7
-77.5°	8.5	10.4	11.8	12.8	14.4	17.6	20.7	23.6	25.9	27.5	28.7
-80°	4.6	4.6	6.1	7.3	8.6	9.8	11.1	12.2	13.4	14.9	16.5
-82.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.8	5.7	6.5	7.3	8.1
-85°	4.2	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.0	3.5	3.2
-87.5°	2.1	2.3	2.5	2.6	2.8	3.0	3.1	3.3	2.6	1.8	0.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P624748 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-11

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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.0	3.2	3.4	3.6	3.7	3.9	4.0	4.2	4.3	4.4	4.5
82.5°	8.8	9.0	8.8	8.5	8.0	9.0	10.3	11.6	12.9	13.2	13.5
80°	17.7	18.4	19.2	20.0	20.9	23.9	27.2	30.5	33.7	34.9	35.7
77.5°	30.5	33.3	35.5	37.0	37.9	42.8	49.4	56.2	63.3	67.5	71.2
75°	52.5	55.4	56.6	57.1	57.2	65.6	78.8	92.9	107.7	115.2	120.3
72.5°	76.0	78.5	79.3	79.4	78.8	91.1	114.5	140.1	167.2	182.4	192.5
70°	99.3	101.7	102.2	102.1	101.8	116.1	149.3	183.9	219.5	255.1	293.4
67.5°	122.8	127.8	128.9	129.0	128.9	139.7	173.6	204.9	233.9	299.5	404.4
65°	148.2	160.2	163.3	163.7	161.8	165.1	194.1	220.2	243.9	291.9	363.9
62.5°	181.1	197.2	202.6	203.0	201.9	199.3	223.3	245.7	266.3	297.1	346.0
60°	217.2	234.4	242.3	242.2	241.2	239.3	256.5	277.7	297.6	322.9	369.7
57.5°	251.0	267.3	279.8	280.7	280.6	279.4	292.9	317.0	340.3	365.5	415.8
55°	282.1	299.7	316.5	321.5	324.9	327.0	338.4	370.5	401.7	431.8	482.3
52.5°	312.8	335.0	356.5	369.3	380.6	390.7	402.9	442.5	481.1	517.5	566.2
50°	349.6	376.4	406.9	431.3	450.1	468.8	485.4	530.5	583.4	634.5	685.6
47.5°	395.9	430.7	468.1	505.0	533.4	568.1	599.6	646.2	698.1	751.7	798.3
45°	450.5	494.6	540.6	596.3	642.8	667.2	687.1	718.2	774.4	829.5	874.7
42.5°	514.1	574.4	638.1	681.5	714.5	735.3	749.8	762.9	822.4	873.9	915.1
40°	599.5	662.7	705.8	742.6	767.2	786.3	806.5	828.6	869.6	916.6	962.1
37.5°	677.5	722.7	760.2	790.2	815.2	836.6	863.2	888.3	921.4	978.5	1018.6
35°	731.9	770.7	807.9	839.2	867.5	891.9	925.9	976.2	1020.9	977.6	914.6
32.5°	772.9	811.4	851.5	897.9	932.8	977.6	1026.8	931.4	833.5	793.7	800.6
30°	807.3	848.1	898.6	960.8	1021.9	985.6	850.8	801.6	809.8	829.1	872.6
27.5°	839.7	884.5	944.7	1030.5	967.7	817.8	815.7	831.8	896.8	955.7	1051.7
25°	874.4	922.5	1011.9	964.0	828.1	828.7	872.0	943.0	1078.4	1208.7	1337.7
22.5°	912.4	989.8	995.6	830.4	834.3	890.7	987.9	1160.4	1339.9	1524.6	1654.4
20°	956.5	1054.7	886.5	840.3	886.8	996.8	1194.7	1417.7	1631.1	1763.4	1879.0
17.5°	1020.4	974.9	850.8	866.8	970.6	1178.2	1428.1	1664.2	1830.2	2037.5	2224.4
15°	1075.2	899.1	862.7	940.9	1115.1	1367.9	1651.9	1840.4	2106.4	2413.0	2768.8
12.5°	1041.7	870.2	886.5	1009.2	1251.3	1556.3	1792.3	2063.8	2426.9	2883.2	3602.2
10°	996.9	881.1	941.2	1116.0	1388.5	1691.5	1925.6	2273.3	2785.9	3612.1	4929.6
7.5°	965.8	885.0	976.0	1196.8	1503.6	1775.4	2073.0	2526.7	3245.0	4476.3	6517.5
5°	940.0	882.8	987.8	1236.7	1574.0	1831.9	2175.9	2723.3	3688.1	5552.4	10331.7
2.5°	925.4	878.6	987.8	1255.6	1613.2	1863.5	2228.7	2817.3	3942.3	6253.4	12732.9
0°	928.4	877.4	984.1	1262.7	1629.4	1880.1	2251.4	2859.5	4052.6	6531.4	13341.4
-2.5°	925.4	878.6	987.8	1255.6	1613.2	1863.5	2228.7	2817.3	3942.3	6253.4	12732.9
-5°	940.0	882.8	987.8	1236.7	1574.0	1831.9	2175.9	2723.3	3688.1	5552.4	10331.7
-7.5°	965.8	885.0	976.0	1196.8	1503.6	1775.4	2073.0	2526.7	3245.0	4476.3	6517.5
-10°	996.9	881.1	941.2	1116.0	1388.5	1691.5	1925.6	2273.3	2785.9	3612.1	4929.6
-12.5°	1041.7	870.2	886.5	1009.2	1251.3	1556.3	1792.3	2063.8	2426.9	2883.2	3602.2
-15°	1075.2	899.1	862.7	940.9	1115.1	1367.9	1651.9	1840.4	2106.4	2413.0	2768.8
-17.5°	1020.4	974.9	850.8	866.8	970.6	1178.2	1428.1	1664.2	1830.2	2037.5	2224.4
-20°	956.5	1054.7	886.5	840.3	886.8	996.8	1194.7	1417.7	1631.1	1763.4	1879.0

Classified

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

Scaled Data Report



REPORT NUMBER: P624748 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-11

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	912.4	989.8	995.6	830.4	834.3	890.7	987.9	1160.4	1339.9	1524.6	1654.4
-25°	874.4	922.5	1011.9	964.0	828.1	828.7	872.0	943.0	1078.4	1208.7	1337.7
-27.5°	839.7	884.5	944.7	1030.5	967.7	817.8	815.7	831.8	896.8	955.7	1051.7
-30°	807.3	848.1	898.6	960.8	1021.9	985.6	850.8	801.6	809.8	829.1	872.6
-32.5°	772.9	811.4	851.5	897.9	932.8	977.6	1026.8	931.4	833.5	793.7	800.6
-35°	731.9	770.7	807.9	839.2	867.5	891.9	925.9	976.2	1020.9	977.6	914.6
-37.5°	677.5	722.7	760.2	790.2	815.2	836.6	863.2	888.3	921.4	978.5	1018.6
-40°	599.5	662.7	705.8	742.6	767.2	786.3	806.5	828.6	869.6	916.6	962.1
-42.5°	514.1	574.4	638.1	681.5	714.5	735.3	749.8	762.9	822.4	873.9	915.1
-45°	450.5	494.6	540.6	596.3	642.8	667.2	687.1	718.2	774.4	829.5	874.7
-47.5°	395.9	430.7	468.1	505.0	533.4	568.1	599.6	646.2	698.1	751.7	798.3
-50°	349.6	376.4	406.9	431.3	450.1	468.8	485.4	530.5	583.4	634.5	685.6
-52.5°	312.8	335.0	356.5	369.3	380.6	390.7	402.9	442.5	481.1	517.5	566.2
-55°	282.1	299.7	316.5	321.5	324.9	327.0	338.4	370.5	401.7	431.8	482.3
-57.5°	251.0	267.3	279.8	280.7	280.6	279.4	292.9	317.0	340.3	365.5	415.8
-60°	217.2	234.4	242.3	242.2	241.2	239.3	256.5	277.7	297.6	322.9	369.7
-62.5°	181.1	197.2	202.6	203.0	201.9	199.3	223.3	245.7	266.3	297.1	346.0
-65°	148.2	160.2	163.3	163.7	161.8	165.1	194.1	220.2	243.9	291.9	363.9
-67.5°	122.8	127.8	128.9	129.0	128.9	139.7	173.6	204.9	233.9	299.5	404.4
-70°	99.3	101.7	102.2	102.1	101.8	116.1	149.3	183.9	219.5	255.1	293.4
-72.5°	76.0	78.5	79.3	79.4	78.8	91.1	114.5	140.1	167.2	182.4	192.5
-75°	52.5	55.4	56.6	57.1	57.2	65.6	78.8	92.9	107.7	115.2	120.3
-77.5°	30.5	33.3	35.5	37.0	37.9	42.8	49.4	56.2	63.3	67.5	71.2
-80°	17.7	18.4	19.2	20.0	20.9	23.9	27.2	30.5	33.7	34.9	35.7
-82.5°	8.8	9.0	8.8	8.5	8.0	9.0	10.3	11.6	12.9	13.2	13.5
-85°	3.0	3.2	3.4	3.6	3.7	3.9	4.0	4.2	4.3	4.4	4.5
-87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-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: P624748 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-11

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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.5	4.6	4.6	4.6	4.6	4.6	4.5	4.5	4.4	4.3	4.2
82.5°	13.7	13.8	13.9	13.9	13.9	13.8	13.7	13.5	13.2	12.9	11.6
80°	36.3	36.7	37.0	37.1	37.0	36.7	36.3	35.7	34.9	33.7	30.5
77.5°	74.7	78.0	74.2	69.6	74.2	78.0	74.7	71.2	67.5	63.3	56.2
75°	124.7	128.6	123.0	116.1	123.0	128.6	124.7	120.3	115.2	107.7	92.9
72.5°	202.0	210.7	210.7	208.9	210.7	210.7	202.0	192.5	182.4	167.2	140.1
70°	334.1	375.5	373.1	362.1	373.1	375.5	334.1	293.4	255.1	219.5	183.9
67.5°	518.3	637.0	676.0	696.3	676.0	637.0	518.3	404.4	299.5	233.9	204.9
65°	429.3	491.0	510.9	524.6	510.9	491.0	429.3	363.9	291.9	243.9	220.2
62.5°	391.0	433.6	441.8	441.0	441.8	433.6	391.0	346.0	297.1	266.3	245.7
60°	415.5	460.4	467.3	459.6	467.3	460.4	415.5	369.7	322.9	297.6	277.7
57.5°	464.7	512.4	524.6	519.9	524.6	512.4	464.7	415.8	365.5	340.3	317.0
55°	530.6	575.9	594.9	598.8	594.9	575.9	530.6	482.3	431.8	401.7	370.5
52.5°	615.2	660.8	677.6	673.1	677.6	660.8	615.2	566.2	517.5	481.1	442.5
50°	730.9	769.0	784.0	779.9	784.0	769.0	730.9	685.6	634.5	583.4	530.5
47.5°	831.0	857.4	871.0	872.7	871.0	857.4	831.0	798.3	751.7	698.1	646.2
45°	893.0	906.5	913.6	914.5	913.6	906.5	893.0	874.7	829.5	774.4	718.2
42.5°	939.8	967.3	987.0	988.8	987.0	967.3	939.8	915.1	873.9	822.4	762.9
40°	998.3	1030.3	1064.2	1109.5	1064.2	1030.3	998.3	962.1	916.6	869.6	828.6
37.5°	1060.6	1109.2	1160.9	1220.9	1160.9	1109.2	1060.6	1018.6	978.5	921.4	888.3
35°	871.4	844.9	830.6	840.2	830.6	844.9	871.4	914.6	977.6	1020.9	976.2
32.5°	805.6	806.8	803.6	803.1	803.6	806.8	805.6	800.6	793.7	833.5	931.4
30°	907.2	914.0	905.8	891.3	905.8	914.0	907.2	872.6	829.1	809.8	801.6
27.5°	1121.1	1154.8	1165.1	1151.2	1165.1	1154.8	1121.1	1051.7	955.7	896.8	831.8
25°	1443.9	1516.2	1553.2	1559.7	1553.2	1516.2	1443.9	1337.7	1208.7	1078.4	943.0
22.5°	1721.8	1766.1	1791.1	1791.9	1791.1	1766.1	1721.8	1654.4	1524.6	1339.9	1160.4
20°	2005.7	2082.2	2115.8	2107.5	2115.8	2082.2	2005.7	1879.0	1763.4	1631.1	1417.7
17.5°	2456.9	2617.1	2694.3	2701.7	2694.3	2617.1	2456.9	2224.4	2037.5	1830.2	1664.2
15°	3175.7	3550.4	3759.9	3788.0	3759.9	3550.4	3175.7	2768.8	2413.0	2106.4	1840.4
12.5°	4389.1	5280.2	5845.1	5923.3	5845.1	5280.2	4389.1	3602.2	2883.2	2426.9	2063.8
10°	6415.0	9287.8	11029.8	11113.2	11029.8	9287.8	6415.0	4929.6	3612.1	2785.9	2273.3
7.5°	12515.5	20395.6	33017.2	38186.0	33017.2	20395.6	12515.5	6517.5	4476.3	3245.0	2526.7
5°	25574.2	90994.8	176920.3	213782.8	176920.3	90994.8	25574.2	10331.7	5552.4	3688.1	2723.3
2.5°	46473.2	183242.3	380941.0	461186.2	380941.0	183242.3	46473.2	12732.9	6253.4	3942.3	2817.3
0°	50294.8	187151.1	418813.0	532644.4	418813.0	187151.1	50294.8	13341.4	6531.4	4052.6	2859.5
-2.5°	46473.2	183242.3	380941.0	461186.2	380941.0	183242.3	46473.2	12732.9	6253.4	3942.3	2817.3
-5°	25574.2	90994.8	176920.3	213782.8	176920.3	90994.8	25574.2	10331.7	5552.4	3688.1	2723.3
-7.5°	12515.5	20395.6	33017.2	38186.0	33017.2	20395.6	12515.5	6517.5	4476.3	3245.0	2526.7
-10°	6415.0	9287.8	11029.8	11113.2	11029.8	9287.8	6415.0	4929.6	3612.1	2785.9	2273.3
-12.5°	4389.1	5280.2	5845.1	5923.3	5845.1	5280.2	4389.1	3602.2	2883.2	2426.9	2063.8
-15°	3175.7	3550.4	3759.9	3788.0	3759.9	3550.4	3175.7	2768.8	2413.0	2106.4	1840.4
-17.5°	2456.9	2617.1	2694.3	2701.7	2694.3	2617.1	2456.9	2224.4	2037.5	1830.2	1664.2
-20°	2005.7	2082.2	2115.8	2107.5	2115.8	2082.2	2005.7	1879.0	1763.4	1631.1	1417.7



REPORT NUMBER: P624748 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-11

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	1721.8	1766.1	1791.1	1791.9	1791.1	1766.1	1721.8	1654.4	1524.6	1339.9	1160.4
-25°	1443.9	1516.2	1553.2	1559.7	1553.2	1516.2	1443.9	1337.7	1208.7	1078.4	943.0
-27.5°	1121.1	1154.8	1165.1	1151.2	1165.1	1154.8	1121.1	1051.7	955.7	896.8	831.8
-30°	907.2	914.0	905.8	891.3	905.8	914.0	907.2	872.6	829.1	809.8	801.6
-32.5°	805.6	806.8	803.6	803.1	803.6	806.8	805.6	800.6	793.7	833.5	931.4
-35°	871.4	844.9	830.6	840.2	830.6	844.9	871.4	914.6	977.6	1020.9	976.2
-37.5°	1060.6	1109.2	1160.9	1220.9	1160.9	1109.2	1060.6	1018.6	978.5	921.4	888.3
-40°	998.3	1030.3	1064.2	1109.5	1064.2	1030.3	998.3	962.1	916.6	869.6	828.6
-42.5°	939.8	967.3	987.0	988.8	987.0	967.3	939.8	915.1	873.9	822.4	762.9
-45°	893.0	906.5	913.6	914.5	913.6	906.5	893.0	874.7	829.5	774.4	718.2
-47.5°	831.0	857.4	871.0	872.7	871.0	857.4	831.0	798.3	751.7	698.1	646.2
-50°	730.9	769.0	784.0	779.9	784.0	769.0	730.9	685.6	634.5	583.4	530.5
-52.5°	615.2	660.8	677.6	673.1	677.6	660.8	615.2	566.2	517.5	481.1	442.5
-55°	530.6	575.9	594.9	598.8	594.9	575.9	530.6	482.3	431.8	401.7	370.5
-57.5°	464.7	512.4	524.6	519.9	524.6	512.4	464.7	415.8	365.5	340.3	317.0
-60°	415.5	460.4	467.3	459.6	467.3	460.4	415.5	369.7	322.9	297.6	277.7
-62.5°	391.0	433.6	441.8	441.0	441.8	433.6	391.0	346.0	297.1	266.3	245.7
-65°	429.3	491.0	510.9	524.6	510.9	491.0	429.3	363.9	291.9	243.9	220.2
-67.5°	518.3	637.0	676.0	696.3	676.0	637.0	518.3	404.4	299.5	233.9	204.9
-70°	334.1	375.5	373.1	362.1	373.1	375.5	334.1	293.4	255.1	219.5	183.9
-72.5°	202.0	210.7	210.7	208.9	210.7	210.7	202.0	192.5	182.4	167.2	140.1
-75°	124.7	128.6	123.0	116.1	123.0	128.6	124.7	120.3	115.2	107.7	92.9
-77.5°	74.7	78.0	74.2	69.6	74.2	78.0	74.7	71.2	67.5	63.3	56.2
-80°	36.3	36.7	37.0	37.1	37.0	36.7	36.3	35.7	34.9	33.7	30.5
-82.5°	13.7	13.8	13.9	13.9	13.9	13.8	13.7	13.5	13.2	12.9	11.6
-85°	4.5	4.6	4.6	4.6	4.6	4.6	4.5	4.5	4.4	4.3	4.2
-87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-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: P624748 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-11

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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8	2.6	3.3
85°	4.0	3.9	3.7	3.6	3.4	3.2	3.0	3.2	3.5	4.0	4.6
82.5°	10.3	9.0	8.0	8.5	8.8	9.0	8.8	8.1	7.3	6.5	5.7
80°	27.2	23.9	20.9	20.0	19.2	18.4	17.7	16.5	14.9	13.4	12.2
77.5°	49.4	42.8	37.9	37.0	35.5	33.3	30.5	28.7	27.5	25.9	23.6
75°	78.8	65.6	57.2	57.1	56.6	55.4	52.5	47.7	43.5	39.8	36.7
72.5°	114.5	91.1	78.8	79.4	79.3	78.5	76.0	71.2	64.8	56.6	50.0
70°	149.3	116.1	101.8	102.1	102.2	101.7	99.3	95.8	91.9	85.7	74.9
67.5°	173.6	139.7	128.9	129.0	128.9	127.8	122.8	117.7	113.1	108.1	97.5
65°	194.1	165.1	161.8	163.7	163.3	160.2	148.2	139.4	132.7	126.4	115.5
62.5°	223.3	199.3	201.9	203.0	202.6	197.2	181.1	166.7	153.8	142.5	132.4
60°	256.5	239.3	241.2	242.2	242.3	234.4	217.2	198.4	178.1	166.3	153.3
57.5°	292.9	279.4	280.6	280.7	279.8	267.3	251.0	233.8	213.4	196.4	180.3
55°	338.4	327.0	324.9	321.5	316.5	299.7	282.1	263.7	245.9	230.7	211.9
52.5°	402.9	390.7	380.6	369.3	356.5	335.0	312.8	293.1	275.7	259.1	241.8
50°	485.4	468.8	450.1	431.3	406.9	376.4	349.6	324.6	306.0	287.9	268.4
47.5°	599.6	568.1	533.4	505.0	468.1	430.7	395.9	361.9	340.0	317.3	296.2
45°	687.1	667.2	642.8	596.3	540.6	494.6	450.5	412.9	377.5	350.3	324.5
42.5°	749.8	735.3	714.5	681.5	638.1	574.4	514.1	469.0	424.6	386.1	350.2
40°	806.5	786.3	767.2	742.6	705.8	662.7	599.5	531.2	478.8	428.5	376.0
37.5°	863.2	836.6	815.2	790.2	760.2	722.7	677.5	613.3	538.5	472.4	408.7
35°	925.9	891.9	867.5	839.2	807.9	770.7	731.9	683.0	610.2	521.1	444.7
32.5°	1026.8	977.6	932.8	897.9	851.5	811.4	772.9	731.6	672.1	579.5	488.5
30°	850.8	985.6	1021.9	960.8	898.6	848.1	807.3	766.3	712.4	639.8	533.6
27.5°	815.7	817.8	967.7	1030.5	944.7	884.5	839.7	796.6	749.1	682.3	589.4
25°	872.0	828.7	828.1	964.0	1011.9	922.5	874.4	827.0	777.0	720.6	660.3
22.5°	987.9	890.7	834.3	830.4	995.6	989.8	912.4	857.4	811.6	777.8	717.1
20°	1194.7	996.8	886.8	840.3	886.5	1054.7	956.5	899.5	867.8	833.8	772.9
17.5°	1428.1	1178.2	970.6	866.8	850.8	974.9	1020.4	954.4	916.7	893.4	829.8
15°	1651.9	1367.9	1115.1	940.9	862.7	899.1	1075.2	1005.2	961.4	945.2	879.4
12.5°	1792.3	1556.3	1251.3	1009.2	886.5	870.2	1041.7	1053.6	1004.9	969.3	911.4
10°	1925.6	1691.5	1388.5	1116.0	941.2	881.1	996.9	1098.1	1037.7	988.0	935.7
7.5°	2073.0	1775.4	1503.6	1196.8	976.0	885.0	965.8	1146.5	1069.5	1009.0	953.5
5°	2175.9	1831.9	1574.0	1236.7	987.8	882.8	940.0	1195.8	1099.6	1030.7	965.7
2.5°	2228.7	1863.5	1613.2	1255.6	987.8	878.6	925.4	1243.5	1139.7	1040.2	966.7
0°	2251.4	1880.1	1629.4	1262.7	984.1	877.4	928.4	1285.9	1183.7	1044.5	965.6
-2.5°	2228.7	1863.5	1613.2	1255.6	987.8	878.6	925.4	1243.5	1139.7	1040.2	966.7
-5°	2175.9	1831.9	1574.0	1236.7	987.8	882.8	940.0	1195.8	1099.6	1030.7	965.7
-7.5°	2073.0	1775.4	1503.6	1196.8	976.0	885.0	965.8	1146.5	1069.5	1009.0	953.5
-10°	1925.6	1691.5	1388.5	1116.0	941.2	881.1	996.9	1098.1	1037.7	988.0	935.7
-12.5°	1792.3	1556.3	1251.3	1009.2	886.5	870.2	1041.7	1053.6	1004.9	969.3	911.4
-15°	1651.9	1367.9	1115.1	940.9	862.7	899.1	1075.2	1005.2	961.4	945.2	879.4
-17.5°	1428.1	1178.2	970.6	866.8	850.8	974.9	1020.4	954.4	916.7	893.4	829.8
-20°	1194.7	996.8	886.8	840.3	886.5	1054.7	956.5	899.5	867.8	833.8	772.9



REPORT NUMBER: P624748 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-11

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	987.9	890.7	834.3	830.4	995.6	989.8	912.4	857.4	811.6	777.8	717.1
-25°	872.0	828.7	828.1	964.0	1011.9	922.5	874.4	827.0	777.0	720.6	660.3
-27.5°	815.7	817.8	967.7	1030.5	944.7	884.5	839.7	796.6	749.1	682.3	589.4
-30°	850.8	985.6	1021.9	960.8	898.6	848.1	807.3	766.3	712.4	639.8	533.6
-32.5°	1026.8	977.6	932.8	897.9	851.5	811.4	772.9	731.6	672.1	579.5	488.5
-35°	925.9	891.9	867.5	839.2	807.9	770.7	731.9	683.0	610.2	521.1	444.7
-37.5°	863.2	836.6	815.2	790.2	760.2	722.7	677.5	613.3	538.5	472.4	408.7
-40°	806.5	786.3	767.2	742.6	705.8	662.7	599.5	531.2	478.8	428.5	376.0
-42.5°	749.8	735.3	714.5	681.5	638.1	574.4	514.1	469.0	424.6	386.1	350.2
-45°	687.1	667.2	642.8	596.3	540.6	494.6	450.5	412.9	377.5	350.3	324.5
-47.5°	599.6	568.1	533.4	505.0	468.1	430.7	395.9	361.9	340.0	317.3	296.2
-50°	485.4	468.8	450.1	431.3	406.9	376.4	349.6	324.6	306.0	287.9	268.4
-52.5°	402.9	390.7	380.6	369.3	356.5	335.0	312.8	293.1	275.7	259.1	241.8
-55°	338.4	327.0	324.9	321.5	316.5	299.7	282.1	263.7	245.9	230.7	211.9
-57.5°	292.9	279.4	280.6	280.7	279.8	267.3	251.0	233.8	213.4	196.4	180.3
-60°	256.5	239.3	241.2	242.2	242.3	234.4	217.2	198.4	178.1	166.3	153.3
-62.5°	223.3	199.3	201.9	203.0	202.6	197.2	181.1	166.7	153.8	142.5	132.4
-65°	194.1	165.1	161.8	163.7	163.3	160.2	148.2	139.4	132.7	126.4	115.5
-67.5°	173.6	139.7	128.9	129.0	128.9	127.8	122.8	117.7	113.1	108.1	97.5
-70°	149.3	116.1	101.8	102.1	102.2	101.7	99.3	95.8	91.9	85.7	74.9
-72.5°	114.5	91.1	78.8	79.4	79.3	78.5	76.0	71.2	64.8	56.6	50.0
-75°	78.8	65.6	57.2	57.1	56.6	55.4	52.5	47.7	43.5	39.8	36.7
-77.5°	49.4	42.8	37.9	37.0	35.5	33.3	30.5	28.7	27.5	25.9	23.6
-80°	27.2	23.9	20.9	20.0	19.2	18.4	17.7	16.5	14.9	13.4	12.2
-82.5°	10.3	9.0	8.0	8.5	8.8	9.0	8.8	8.1	7.3	6.5	5.7
-85°	4.0	3.9	3.7	3.6	3.4	3.2	3.0	3.2	3.5	4.0	4.6
-87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8	2.6	3.3
-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: P624748 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-11

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°	3.1	3.0	2.8	2.6	2.5	2.3	2.1	1.9	1.8	1.6	1.4
85°	4.6	4.6	4.6	4.6	4.6	4.6	4.2	3.9	3.5	3.1	2.8
82.5°	4.8	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.1
80°	11.1	9.8	8.6	7.3	6.1	4.6	4.6	4.6	4.6	4.6	4.6
77.5°	20.7	17.6	14.4	12.8	11.8	10.4	8.5	6.0	4.6	4.6	4.6
75°	33.1	29.3	25.5	21.7	18.5	16.3	14.4	11.8	8.4	5.0	4.6
72.5°	46.5	42.4	37.5	31.4	26.5	22.7	20.0	17.5	13.6	9.7	5.7
70°	64.7	56.5	50.9	43.5	35.6	28.7	24.6	22.0	18.7	14.2	9.7
67.5°	86.0	74.2	64.8	55.4	46.1	37.5	29.6	26.4	23.4	18.7	13.6
65°	103.2	90.5	77.9	67.5	56.8	46.5	37.4	32.2	28.3	23.6	17.5
62.5°	120.3	106.5	92.8	79.7	67.9	56.2	45.4	40.7	34.0	28.7	22.1
60°	137.9	123.9	107.7	92.8	79.1	66.2	55.9	49.4	42.4	33.8	27.0
57.5°	164.2	143.6	124.0	106.1	90.2	76.0	67.0	59.6	51.0	41.3	32.1
55°	193.3	171.3	142.2	120.1	101.6	85.4	78.7	70.5	60.1	49.5	37.5
52.5°	222.4	195.6	164.6	135.7	113.6	97.2	91.6	81.7	70.5	57.8	45.5
50°	249.0	216.7	184.5	153.8	125.7	113.3	105.2	94.6	81.1	66.5	54.0
47.5°	268.8	235.5	201.9	170.0	140.2	130.9	121.5	108.3	91.8	76.1	62.9
45°	289.1	252.7	217.8	184.1	160.5	150.6	139.3	122.6	104.8	87.6	72.2
42.5°	309.1	270.4	232.9	196.6	181.9	170.6	158.3	139.6	118.3	99.6	82.3
40°	330.9	287.8	247.5	217.6	202.8	190.4	176.6	157.6	132.5	112.9	93.1
37.5°	352.4	306.3	262.5	241.2	223.4	209.1	194.5	176.4	150.5	128.0	104.2
35°	381.1	325.4	288.0	264.7	244.6	227.2	212.1	194.4	170.8	143.4	115.5
32.5°	409.2	352.5	316.3	287.4	265.0	244.7	228.6	216.7	191.7	159.0	126.9
30°	448.6	390.8	344.1	308.7	284.6	262.7	249.2	242.1	213.1	174.9	138.9
27.5°	501.2	428.8	372.7	332.3	303.5	281.0	277.1	270.4	234.8	191.7	151.9
25°	556.4	473.2	406.6	356.1	321.1	310.9	304.9	301.1	258.0	209.7	164.9
22.5°	619.9	518.9	439.7	378.8	352.9	339.8	332.3	326.2	282.9	227.7	177.7
20°	681.7	562.8	474.6	420.0	388.0	369.3	359.0	351.2	309.0	245.5	190.2
17.5°	739.8	615.9	526.7	464.4	424.0	398.7	384.9	375.9	335.9	262.9	202.5
15°	787.9	675.7	576.8	506.4	459.2	427.9	410.0	400.3	363.3	279.9	211.0
12.5°	829.3	728.0	623.7	546.0	493.5	456.8	434.3	424.3	390.6	290.4	214.8
10°	864.0	773.4	667.2	583.2	526.8	485.2	458.0	441.0	400.9	295.1	218.0
7.5°	892.6	812.4	707.4	618.2	554.1	499.5	461.4	442.9	407.0	298.6	220.5
5°	912.0	835.1	722.4	624.2	553.5	498.2	461.2	444.4	411.0	300.9	222.2
2.5°	910.1	837.4	720.4	624.1	551.5	495.7	460.6	445.3	413.1	301.9	223.0
0°	905.2	835.6	714.9	622.0	547.8	492.1	459.6	445.6	413.1	301.7	222.8
-2.5°	910.1	837.4	720.4	624.1	551.5	495.7	460.6	445.3	413.1	301.9	223.0
-5°	912.0	835.1	722.4	624.2	553.5	498.2	461.2	444.4	411.0	300.9	222.2
-7.5°	892.6	812.4	707.4	618.2	554.1	499.5	461.4	442.9	407.0	298.6	220.5
-10°	864.0	773.4	667.2	583.2	526.8	485.2	458.0	441.0	400.9	295.1	218.0
-12.5°	829.3	728.0	623.7	546.0	493.5	456.8	434.3	424.3	390.6	290.4	214.8
-15°	787.9	675.7	576.8	506.4	459.2	427.9	410.0	400.3	363.3	279.9	211.0
-17.5°	739.8	615.9	526.7	464.4	424.0	398.7	384.9	375.9	335.9	262.9	202.5
-20°	681.7	562.8	474.6	420.0	388.0	369.3	359.0	351.2	309.0	245.5	190.2

Classified

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
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Scaled Data Report



REPORT NUMBER: P624748 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-11

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	619.9	518.9	439.7	378.8	352.9	339.8	332.3	326.2	282.9	227.7	177.7
-25°	556.4	473.2	406.6	356.1	321.1	310.9	304.9	301.1	258.0	209.7	164.9
-27.5°	501.2	428.8	372.7	332.3	303.5	281.0	277.1	270.4	234.8	191.7	151.9
-30°	448.6	390.8	344.1	308.7	284.6	262.7	249.2	242.1	213.1	174.9	138.9
-32.5°	409.2	352.5	316.3	287.4	265.0	244.7	228.6	216.7	191.7	159.0	126.9
-35°	381.1	325.4	288.0	264.7	244.6	227.2	212.1	194.4	170.8	143.4	115.5
-37.5°	352.4	306.3	262.5	241.2	223.4	209.1	194.5	176.4	150.5	128.0	104.2
-40°	330.9	287.8	247.5	217.6	202.8	190.4	176.6	157.6	132.5	112.9	93.1
-42.5°	309.1	270.4	232.9	196.6	181.9	170.6	158.3	139.6	118.3	99.6	82.3
-45°	289.1	252.7	217.8	184.1	160.5	150.6	139.3	122.6	104.8	87.6	72.2
-47.5°	268.8	235.5	201.9	170.0	140.2	130.9	121.5	108.3	91.8	76.1	62.9
-50°	249.0	216.7	184.5	153.8	125.7	113.3	105.2	94.6	81.1	66.5	54.0
-52.5°	222.4	195.6	164.6	135.7	113.6	97.2	91.6	81.7	70.5	57.8	45.5
-55°	193.3	171.3	142.2	120.1	101.6	85.4	78.7	70.5	60.1	49.5	37.5
-57.5°	164.2	143.6	124.0	106.1	90.2	76.0	67.0	59.6	51.0	41.3	32.1
-60°	137.9	123.9	107.7	92.8	79.1	66.2	55.9	49.4	42.4	33.8	27.0
-62.5°	120.3	106.5	92.8	79.7	67.9	56.2	45.4	40.7	34.0	28.7	22.1
-65°	103.2	90.5	77.9	67.5	56.8	46.5	37.4	32.2	28.3	23.6	17.5
-67.5°	86.0	74.2	64.8	55.4	46.1	37.5	29.6	26.4	23.4	18.7	13.6
-70°	64.7	56.5	50.9	43.5	35.6	28.7	24.6	22.0	18.7	14.2	9.7
-72.5°	46.5	42.4	37.5	31.4	26.5	22.7	20.0	17.5	13.6	9.7	5.7
-75°	33.1	29.3	25.5	21.7	18.5	16.3	14.4	11.8	8.4	5.0	4.6
-77.5°	20.7	17.6	14.4	12.8	11.8	10.4	8.5	6.0	4.6	4.6	4.6
-80°	11.1	9.8	8.6	7.3	6.1	4.6	4.6	4.6	4.6	4.6	4.6
-82.5°	4.8	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.1
-85°	4.6	4.6	4.6	4.6	4.6	4.6	4.2	3.9	3.5	3.1	2.8
-87.5°	3.1	3.0	2.8	2.6	2.5	2.3	2.1	1.9	1.8	1.6	1.4
-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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REPORT NUMBER: P624748 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-11

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°	1.2	1.0	0.8	0.6	0.4	0.2	0.0
85°	2.4	2.0	1.6	1.2	0.8	0.4	0.0
82.5°	3.6	3.0	2.4	1.8	1.2	0.6	0.0
80°	4.6	4.0	3.2	2.4	1.6	0.8	0.0
77.5°	4.6	4.6	4.0	3.0	2.0	1.0	0.0
75°	4.6	4.6	4.6	3.6	2.4	1.2	0.0
72.5°	4.6	4.6	4.6	4.1	2.8	1.4	0.0
70°	5.1	4.6	4.6	4.6	3.1	1.6	0.0
67.5°	8.6	4.6	4.6	4.6	3.5	1.8	0.0
65°	12.1	6.2	4.6	4.6	3.9	1.9	0.0
62.5°	15.6	9.2	4.6	4.6	4.2	2.1	0.0
60°	19.1	12.3	4.6	4.6	4.6	2.3	0.0
57.5°	23.9	15.4	7.0	4.6	4.6	2.5	0.0
55°	29.0	18.4	9.5	4.6	4.6	2.6	0.0
52.5°	34.2	21.6	12.0	4.6	4.6	2.8	0.0
50°	39.5	26.2	14.4	4.6	4.6	3.0	0.0
47.5°	45.2	30.9	16.8	5.0	4.6	3.1	0.0
45°	53.3	35.5	19.1	6.8	4.6	3.3	0.0
42.5°	61.5	40.1	21.3	8.5	4.6	3.4	0.0
40°	69.8	44.8	24.3	10.1	4.6	3.5	0.0
37.5°	78.2	49.4	27.9	11.6	4.6	3.6	0.0
35°	86.8	55.4	31.4	13.1	4.6	3.8	0.0
32.5°	95.5	62.1	34.8	14.4	4.6	3.9	0.0
30°	104.8	68.7	38.1	15.7	4.6	4.0	0.0
27.5°	113.9	75.1	40.5	16.9	4.6	4.1	0.0
25°	123.0	81.4	42.6	17.9	4.6	4.2	0.0
22.5°	131.9	86.4	44.2	18.9	4.6	4.2	0.0
20°	140.6	88.2	45.6	19.8	4.6	4.3	0.0
17.5°	145.0	89.2	46.7	20.6	4.6	4.4	0.0
15°	146.6	89.5	47.4	21.3	4.6	4.4	0.0
12.5°	147.7	89.1	47.9	21.9	4.6	4.5	0.0
10°	148.2	88.1	48.0	22.3	4.6	4.5	0.0
7.5°	148.1	86.5	48.0	22.7	4.6	4.6	0.0
5°	147.4	84.4	47.7	23.0	4.6	4.6	0.0
2.5°	146.0	81.8	47.1	23.1	4.6	4.6	0.0
0°	143.9	78.9	46.4	23.2	4.6	4.6	0.0
-2.5°	146.0	81.8	47.1	23.1	4.6	4.6	0.0
-5°	147.4	84.4	47.7	23.0	4.6	4.6	0.0
-7.5°	148.1	86.5	48.0	22.7	4.6	4.6	0.0
-10°	148.2	88.1	48.0	22.3	4.6	4.5	0.0
-12.5°	147.7	89.1	47.9	21.9	4.6	4.5	0.0
-15°	146.6	89.5	47.4	21.3	4.6	4.4	0.0
-17.5°	145.0	89.2	46.7	20.6	4.6	4.4	0.0
-20°	140.6	88.2	45.6	19.8	4.6	4.3	0.0

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CATALOG NUMBER: EPH-VN-04-E-PRO-4000K-11

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	131.9	86.4	44.2	18.9	4.6	4.2	0.0
-25°	123.0	81.4	42.6	17.9	4.6	4.2	0.0
-27.5°	113.9	75.1	40.5	16.9	4.6	4.1	0.0
-30°	104.8	68.7	38.1	15.7	4.6	4.0	0.0
-32.5°	95.5	62.1	34.8	14.4	4.6	3.9	0.0
-35°	86.8	55.4	31.4	13.1	4.6	3.8	0.0
-37.5°	78.2	49.4	27.9	11.6	4.6	3.6	0.0
-40°	69.8	44.8	24.3	10.1	4.6	3.5	0.0
-42.5°	61.5	40.1	21.3	8.5	4.6	3.4	0.0
-45°	53.3	35.5	19.1	6.8	4.6	3.3	0.0
-47.5°	45.2	30.9	16.8	5.0	4.6	3.1	0.0
-50°	39.5	26.2	14.4	4.6	4.6	3.0	0.0
-52.5°	34.2	21.6	12.0	4.6	4.6	2.8	0.0
-55°	29.0	18.4	9.5	4.6	4.6	2.6	0.0
-57.5°	23.9	15.4	7.0	4.6	4.6	2.5	0.0
-60°	19.1	12.3	4.6	4.6	4.6	2.3	0.0
-62.5°	15.6	9.2	4.6	4.6	4.2	2.1	0.0
-65°	12.1	6.2	4.6	4.6	3.9	1.9	0.0
-67.5°	8.6	4.6	4.6	4.6	3.5	1.8	0.0
-70°	5.1	4.6	4.6	4.6	3.1	1.6	0.0
-72.5°	4.6	4.6	4.6	4.1	2.8	1.4	0.0
-75°	4.6	4.6	4.6	3.6	2.4	1.2	0.0
-77.5°	4.6	4.6	4.0	3.0	2.0	1.0	0.0
-80°	4.6	4.0	3.2	2.4	1.6	0.8	0.0
-82.5°	3.6	3.0	2.4	1.8	1.2	0.6	0.0
-85°	2.4	2.0	1.6	1.2	0.8	0.4	0.0
-87.5°	1.2	1.0	0.8	0.6	0.4	0.2	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)