

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: P624775 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-VN-06-E-PRO-4000K-77**

Issue Date: 11/8/2022



Test Information

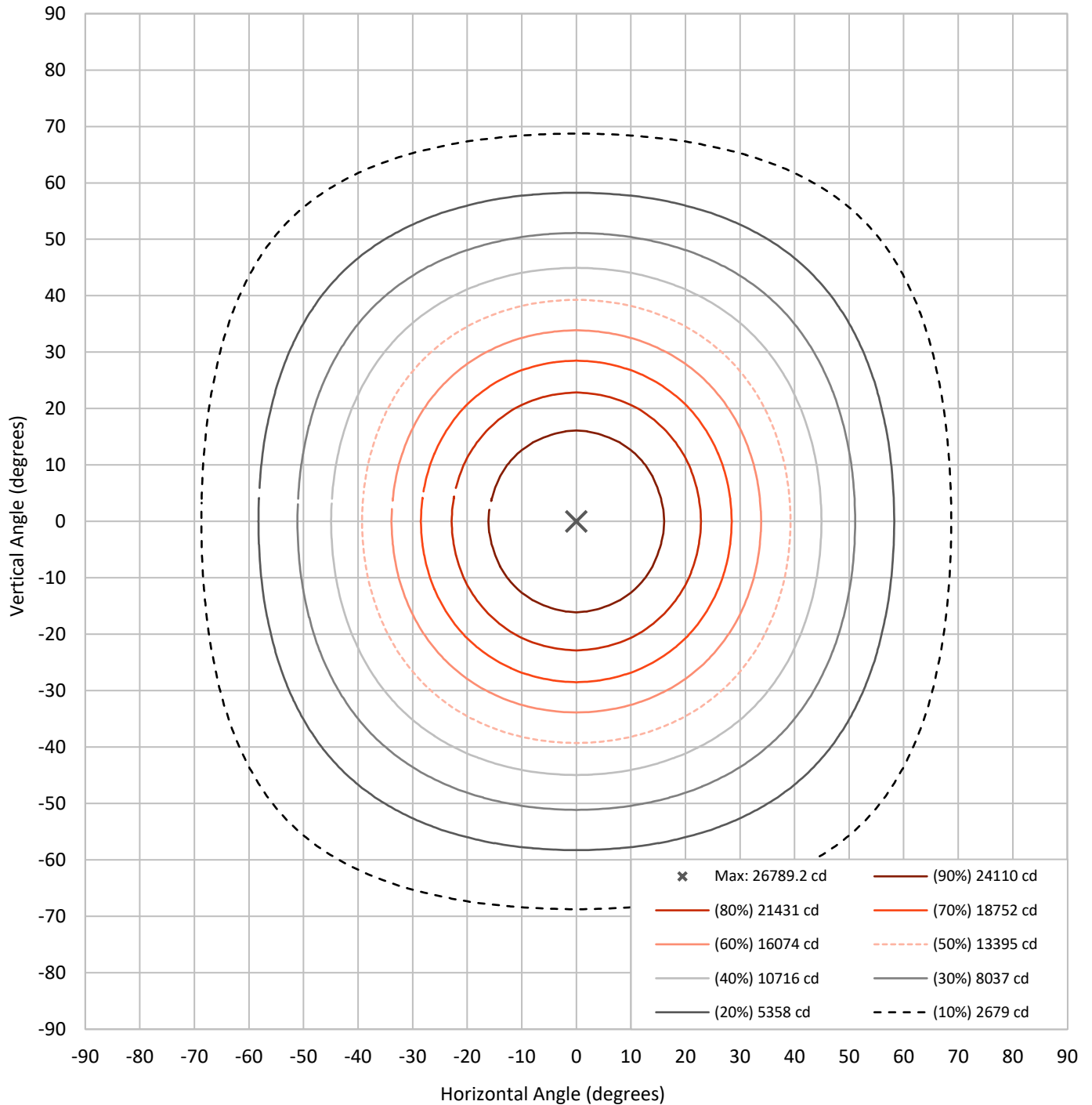
Test Method: LM-79-08
Report Number: P624775 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-765-15)
Test Lab: INNOVATION CENTER
Issue Date: 11/8/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-06-E-PRO-4000K-77
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:	48225.4 lumens	Max Intensity:	26789.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	128.8 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:	27823.7 lumens	Field Lumens:	45558.9 lumens
Beam Efficiency:	57.7%	Field Efficiency:	94.5%
Input Watts (W):	374.3		
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-06-E-PRO-4000K-77

Iso-Candela Plot





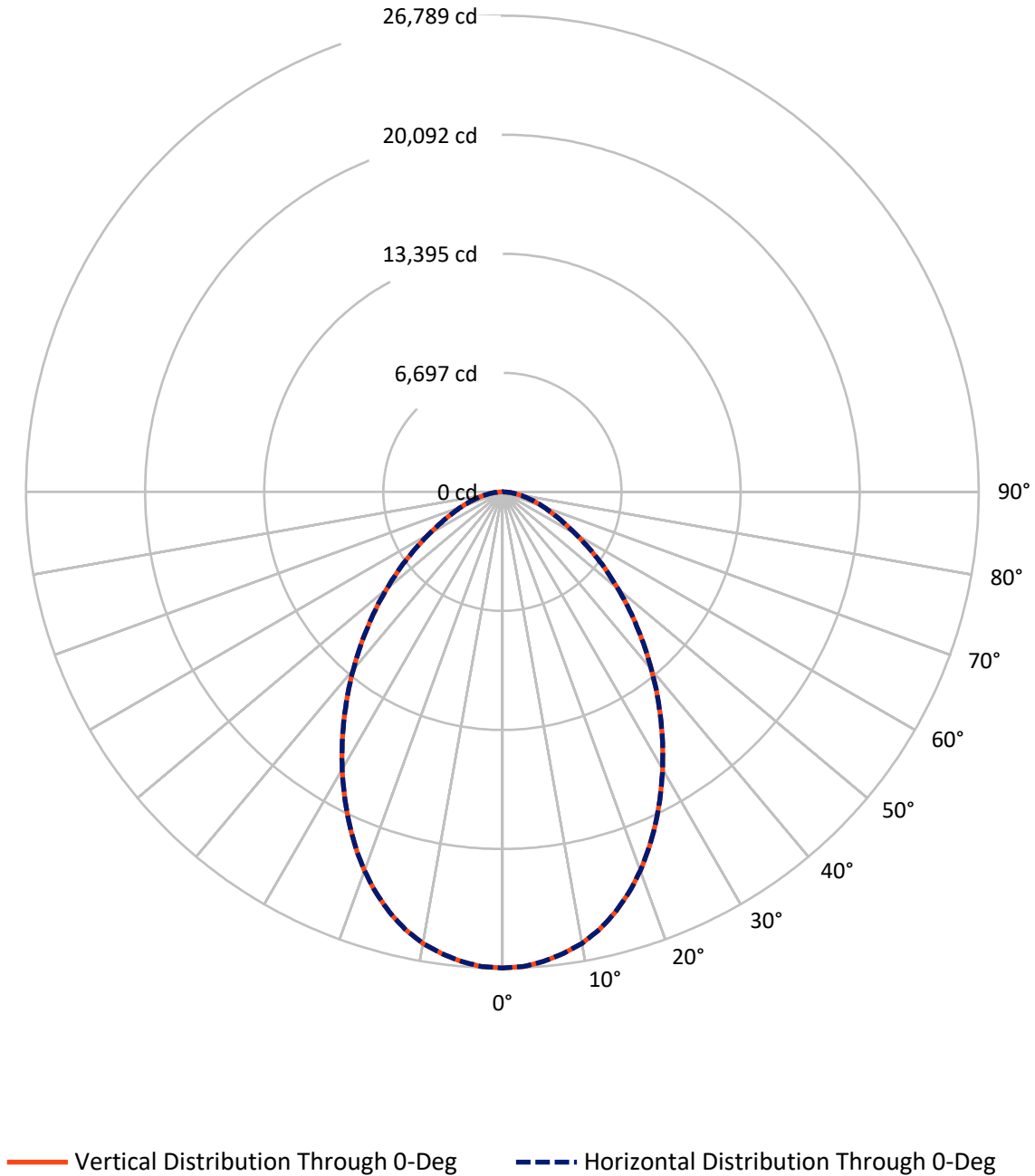
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Lumen Table

90																			
80	4.0	28.2	70.2	111.0	127.8	111.0	70.2	28.2	4.0										
70																			
60	12.8	13.2	26.5	43.7	62.7	81.4	96.7	105.1	105.1	96.7	81.4	62.7	43.7	26.5	13.2				12.8
50																			
40	21.4	19.7	40.8	69.7	106.0	144.9	177.9	196.5	196.5	177.9	144.9	106.0	69.7	40.8	19.7				21.4
30																			
20	28.0	26.4	56.8	104.2	166.8	233.0	288.7	320.6	320.6	288.7	233.0	166.8	104.2	56.8	26.4				28.0
10																			
0	30.5	32.8	74.8	144.4	235.0	332.0	415.3	463.9	463.9	415.3	332.0	235.0	144.4	74.8	32.8				30.5
-10																			
-20	28.0	38.6	92.6	182.6	300.6	429.7	542.7	609.5	609.5	542.7	429.7	300.6	182.6	92.6	38.6				28.0
-30																			
-40	21.4	43.1	106.7	212.5	353.1	509.7	648.3	728.6	728.6	648.3	509.7	353.1	212.5	106.7	43.1				21.4
-50																			
-60	12.8	45.5	114.4	228.9	382.6	555.2	706.7	790.5	790.5	706.7	555.2	382.6	228.9	114.4	45.5				12.8
-70																			
-80	4.0	45.5	114.4	228.9	382.6	555.2	706.7	790.5	790.5	706.7	555.2	382.6	228.9	114.4	45.5				4.0
-90																			

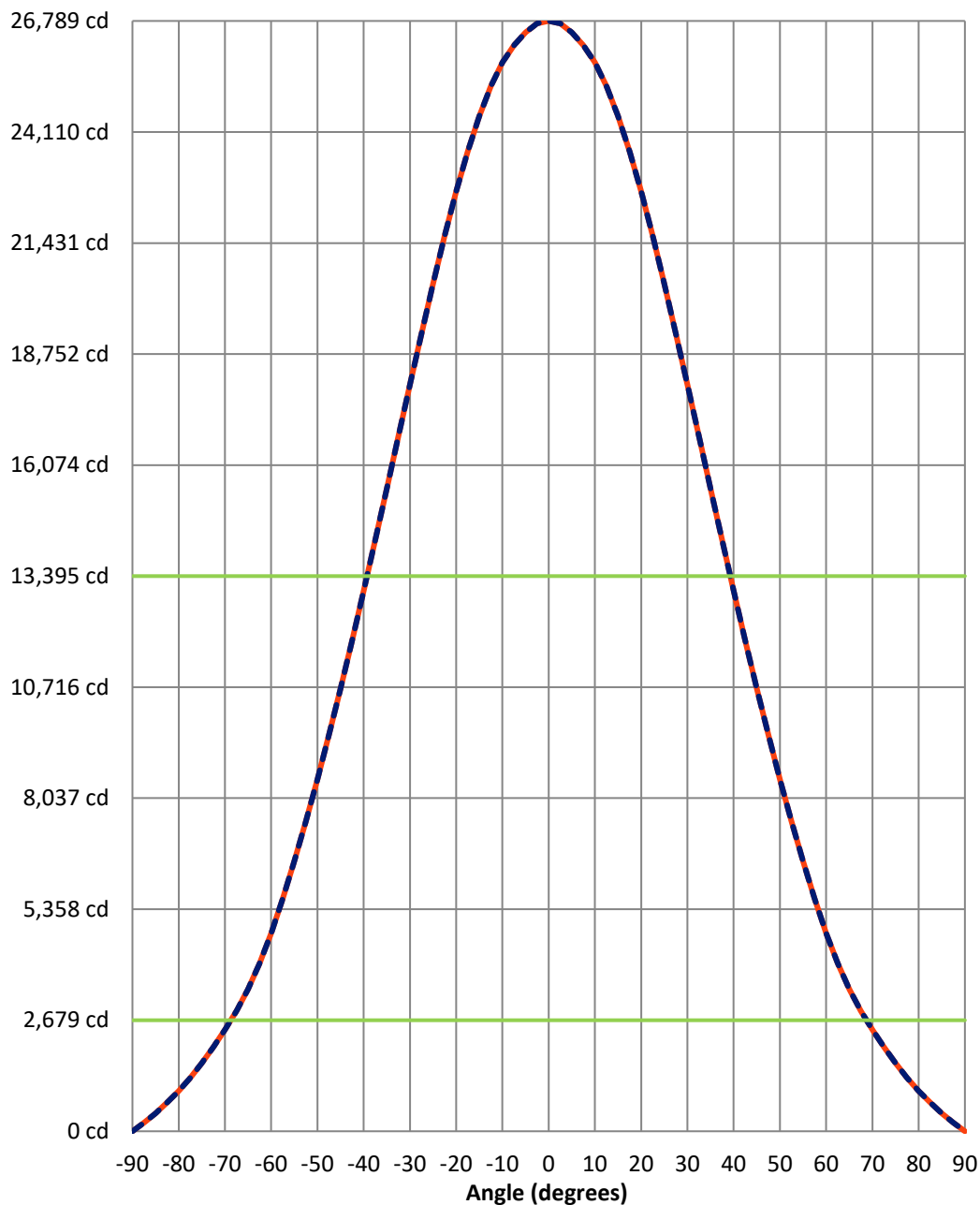
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 78.6°
 V Angle: 78.6°
 Lumens: 27823.7
 Efficiency: 57.7%

Field:
 H Angle: 137.5°
 V Angle: 137.5°
 Lumens: 45558.9
 Efficiency: 94.5%

Spill:
 Lumens: 2666.5
 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	9.0	18.0	26.9	35.8	44.6	53.4	62.0	70.5	78.9	87.1
85°	0.0	18.0	35.9	53.8	71.5	89.2	106.6	123.9	140.9	157.6	174.1
82.5°	0.0	26.9	53.8	80.5	107.1	133.5	159.7	185.5	211.5	239.1	266.1
80°	0.0	35.8	71.5	107.1	142.5	177.7	213.1	250.8	288.1	324.8	360.9
77.5°	0.0	44.6	89.2	133.5	177.7	223.0	270.6	317.7	364.2	410.0	458.5
75°	0.0	53.4	106.6	159.7	213.1	270.6	327.6	384.0	440.7	504.1	566.4
72.5°	0.0	62.0	123.9	185.5	250.8	317.7	384.0	452.2	527.0	600.7	673.2
70°	0.0	70.5	140.9	211.5	288.1	364.2	440.7	527.0	612.2	696.3	783.7
67.5°	0.0	78.9	157.6	239.1	324.8	410.0	504.1	600.7	696.3	795.9	894.0
65°	0.0	87.1	174.1	266.1	360.9	458.5	566.4	673.2	783.7	894.0	1007.2
62.5°	0.0	95.2	190.2	292.7	396.2	509.5	627.5	747.3	869.5	993.1	1129.4
60°	0.0	103.1	206.0	318.6	430.8	559.3	687.3	820.9	953.6	1101.3	1249.3
57.5°	0.0	110.8	222.9	343.9	469.5	608.0	748.6	892.9	1045.3	1207.0	1376.6
55°	0.0	118.2	239.3	368.6	507.4	655.4	808.8	963.1	1137.0	1313.0	1505.7
52.5°	0.0	125.5	255.2	392.4	544.2	701.9	867.2	1040.0	1226.2	1426.2	1631.4
50°	0.0	132.5	270.6	415.6	579.8	749.0	923.8	1115.7	1316.0	1535.9	1762.6
47.5°	0.0	139.3	285.5	438.7	614.2	794.5	979.5	1188.7	1410.2	1642.1	1890.7
45°	0.0	145.8	299.7	463.4	647.2	838.2	1039.7	1259.1	1501.0	1752.9	2014.3
42.5°	0.0	152.0	313.4	487.1	678.9	880.1	1097.4	1331.6	1588.2	1859.5	2141.0
40°	0.0	157.9	326.4	509.8	710.0	920.1	1152.5	1404.2	1673.8	1961.5	2263.7
37.5°	0.0	163.6	338.8	531.2	740.3	958.1	1204.9	1473.4	1759.8	2060.8	2380.6
35°	0.0	168.9	350.5	551.5	769.0	997.5	1254.5	1538.8	1841.2	2160.1	2495.2
32.5°	0.0	173.9	361.5	570.6	795.9	1036.2	1302.9	1600.4	1918.0	2253.7	2608.6
30°	0.0	178.6	371.7	588.4	821.1	1072.4	1352.0	1659.2	1989.8	2341.3	2715.1
27.5°	0.0	182.9	381.3	604.9	844.5	1106.0	1397.7	1717.3	2058.5	2422.9	2814.1
25°	0.0	186.9	390.0	620.1	866.0	1136.9	1439.7	1770.7	2124.8	2502.2	2906.1
22.5°	0.0	190.5	398.0	634.0	885.6	1165.1	1478.0	1819.5	2185.4	2576.7	3003.6
20°	0.0	193.8	405.1	646.4	903.3	1190.5	1512.5	1863.5	2239.9	2643.9	3091.6
17.5°	0.0	196.7	411.5	657.5	918.9	1213.0	1543.2	1902.5	2288.4	2703.6	3169.8
15°	0.0	199.2	417.0	667.1	932.5	1232.6	1569.9	1936.5	2330.7	2755.7	3238.1
12.5°	0.0	201.3	421.7	675.3	944.1	1249.3	1592.6	1965.5	2366.7	2800.1	3296.3
10°	0.0	203.1	425.6	682.0	953.6	1263.0	1611.2	1989.2	2396.3	2836.5	3344.1
7.5°	0.0	204.4	428.6	687.3	961.0	1273.6	1625.7	2007.8	2419.3	2865.0	3381.5
5°	0.0	205.4	430.8	691.0	966.3	1281.3	1636.2	2021.1	2435.9	2885.4	3408.2
2.5°	0.0	206.0	432.1	693.2	969.5	1285.9	1642.4	2029.0	2445.8	2897.6	3424.3
0°	0.0	206.2	432.5	694.0	970.6	1287.4	1644.5	2031.7	2449.1	2901.7	3429.7
-2.5°	0.0	206.0	432.1	693.2	969.5	1285.9	1642.4	2029.0	2445.8	2897.6	3424.3
-5°	0.0	205.4	430.8	691.0	966.3	1281.3	1636.2	2021.1	2435.9	2885.4	3408.2
-7.5°	0.0	204.4	428.6	687.3	961.0	1273.6	1625.7	2007.8	2419.3	2865.0	3381.5
-10°	0.0	203.1	425.6	682.0	953.6	1263.0	1611.2	1989.2	2396.3	2836.5	3344.1
-12.5°	0.0	201.3	421.7	675.3	944.1	1249.3	1592.6	1965.5	2366.7	2800.1	3296.3
-15°	0.0	199.2	417.0	667.1	932.5	1232.6	1569.9	1936.5	2330.7	2755.7	3238.1
-17.5°	0.0	196.7	411.5	657.5	918.9	1213.0	1543.2	1902.5	2288.4	2703.6	3169.8
-20°	0.0	193.8	405.1	646.4	903.3	1190.5	1512.5	1863.5	2239.9	2643.9	3091.6

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Scaled Data Report



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CATALOG NUMBER: EPH-VN-06-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	190.5	398.0	634.0	885.6	1165.1	1478.0	1819.5	2185.4	2576.7	3003.6
-25°	0.0	186.9	390.0	620.1	866.0	1136.9	1439.7	1770.7	2124.8	2502.2	2906.1
-27.5°	0.0	182.9	381.3	604.9	844.5	1106.0	1397.7	1717.3	2058.5	2422.9	2814.1
-30°	0.0	178.6	371.7	588.4	821.1	1072.4	1352.0	1659.2	1989.8	2341.3	2715.1
-32.5°	0.0	173.9	361.5	570.6	795.9	1036.2	1302.9	1600.4	1918.0	2253.7	2608.6
-35°	0.0	168.9	350.5	551.5	769.0	997.5	1254.5	1538.8	1841.2	2160.1	2495.2
-37.5°	0.0	163.6	338.8	531.2	740.3	958.1	1204.9	1473.4	1759.8	2060.8	2380.6
-40°	0.0	157.9	326.4	509.8	710.0	920.1	1152.5	1404.2	1673.8	1961.5	2263.7
-42.5°	0.0	152.0	313.4	487.1	678.9	880.1	1097.4	1331.6	1588.2	1859.5	2141.0
-45°	0.0	145.8	299.7	463.4	647.2	838.2	1039.7	1259.1	1501.0	1752.9	2014.3
-47.5°	0.0	139.3	285.5	438.7	614.2	794.5	979.5	1188.7	1410.2	1642.1	1890.7
-50°	0.0	132.5	270.6	415.6	579.8	749.0	923.8	1115.7	1316.0	1535.9	1762.6
-52.5°	0.0	125.5	255.2	392.4	544.2	701.9	867.2	1040.0	1226.2	1426.2	1631.4
-55°	0.0	118.2	239.3	368.6	507.4	655.4	808.8	963.1	1137.0	1313.0	1505.7
-57.5°	0.0	110.8	222.9	343.9	469.5	608.0	748.6	892.9	1045.3	1207.0	1376.6
-60°	0.0	103.1	206.0	318.6	430.8	559.3	687.3	820.9	953.6	1101.3	1249.3
-62.5°	0.0	95.2	190.2	292.7	396.2	509.5	627.5	747.3	869.5	993.1	1129.4
-65°	0.0	87.1	174.1	266.1	360.9	458.5	566.4	673.2	783.7	894.0	1007.2
-67.5°	0.0	78.9	157.6	239.1	324.8	410.0	504.1	600.7	696.3	795.9	894.0
-70°	0.0	70.5	140.9	211.5	288.1	364.2	440.7	527.0	612.2	696.3	783.7
-72.5°	0.0	62.0	123.9	185.5	250.8	317.7	384.0	452.2	527.0	600.7	673.2
-75°	0.0	53.4	106.6	159.7	213.1	270.6	327.6	384.0	440.7	504.1	566.4
-77.5°	0.0	44.6	89.2	133.5	177.7	223.0	270.6	317.7	364.2	410.0	458.5
-80°	0.0	35.8	71.5	107.1	142.5	177.7	213.1	250.8	288.1	324.8	360.9
-82.5°	0.0	26.9	53.8	80.5	107.1	133.5	159.7	185.5	211.5	239.1	266.1
-85°	0.0	18.0	35.9	53.8	71.5	89.2	106.6	123.9	140.9	157.6	174.1
-87.5°	0.0	9.0	18.0	26.9	35.8	44.6	53.4	62.0	70.5	78.9	87.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: EPH-VN-06-E-PRO-4000K-77

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	95.2	103.1	110.8	118.2	125.5	132.5	139.3	145.8	152.0	157.9	163.6
85°	190.2	206.0	222.9	239.3	255.2	270.6	285.5	299.7	313.4	326.4	338.8
82.5°	292.7	318.6	343.9	368.6	392.4	415.6	438.7	463.4	487.1	509.8	531.2
80°	396.2	430.8	469.5	507.4	544.2	579.8	614.2	647.2	678.9	710.0	740.3
77.5°	509.5	559.3	608.0	655.4	701.9	749.0	794.5	838.2	880.1	920.1	958.1
75°	627.5	687.3	748.6	808.8	867.2	923.8	979.5	1039.7	1097.4	1152.5	1204.9
72.5°	747.3	820.9	892.9	963.1	1040.0	1115.7	1188.7	1259.1	1331.6	1404.2	1473.4
70°	869.5	953.6	1045.3	1137.0	1226.2	1316.0	1410.2	1501.0	1588.2	1673.8	1759.8
67.5°	993.1	1101.3	1207.0	1313.0	1426.2	1535.9	1642.1	1752.9	1859.5	1961.5	2060.8
65°	1129.4	1249.3	1376.6	1505.7	1631.4	1762.6	1890.7	2014.3	2141.0	2263.7	2380.6
62.5°	1263.4	1408.6	1553.8	1699.9	1849.8	1995.4	2144.7	2291.6	2433.0	2578.5	2718.7
60°	1408.6	1569.9	1734.9	1902.5	2068.6	2239.9	2406.1	2576.7	2744.5	2906.1	3085.6
57.5°	1553.8	1734.9	1920.1	2106.8	2297.5	2486.1	2681.6	2870.8	3078.5	3282.9	3487.3
55°	1699.9	1902.5	2106.8	2316.8	2528.1	2745.0	2964.9	3203.2	3433.9	3695.3	3945.6
52.5°	1849.8	2068.6	2297.5	2528.1	2766.3	3014.8	3278.7	3553.6	3845.9	4139.3	4452.8
50°	1995.4	2239.9	2486.1	2745.0	3014.8	3303.9	3613.9	3937.1	4281.7	4632.3	4998.2
47.5°	2144.7	2406.1	2681.6	2964.9	3278.7	3613.9	3967.6	4353.5	4741.1	5167.1	5582.4
45°	2291.6	2576.7	2870.8	3203.2	3553.6	3937.1	4353.5	4777.5	5252.3	5720.1	6200.3
42.5°	2433.0	2744.5	3078.5	3433.9	3845.9	4281.7	4741.1	5252.3	5767.1	6295.7	6823.9
40°	2578.5	2906.1	3282.9	3695.3	4139.3	4632.3	5167.1	5720.1	6295.7	6875.6	7449.8
37.5°	2718.7	3085.6	3487.3	3945.6	4452.8	4998.2	5582.4	6200.3	6823.9	7449.8	8087.2
35°	2851.9	3256.1	3707.1	4205.2	4752.0	5369.2	6011.1	6669.7	7344.6	8030.5	8719.1
32.5°	2990.3	3417.4	3915.2	4467.7	5075.4	5731.1	6421.7	7136.1	7861.6	8595.4	9353.1
30°	3127.9	3594.1	4120.1	4714.9	5384.1	6092.4	6828.1	7583.6	8359.6	9163.9	9969.4
27.5°	3256.1	3760.9	4332.3	4971.8	5678.2	6431.1	7215.4	8021.7	8853.0	9705.1	10559.5
25°	3374.6	3915.2	4528.6	5218.7	5969.1	6759.9	7581.3	8430.6	9322.9	10223.3	11132.0
22.5°	3492.6	4056.9	4708.6	5445.3	6236.3	7067.4	7931.2	8830.3	9763.0	10705.0	11669.4
20°	3608.2	4205.2	4885.9	5653.8	6478.8	7346.8	8249.8	9198.7	10171.7	11163.5	12176.0
17.5°	3711.1	4337.3	5053.3	5852.5	6706.4	7603.1	8538.6	9529.4	10539.5	11577.1	12640.3
15°	3800.9	4452.8	5199.8	6026.6	6908.0	7834.2	8807.1	9827.7	10871.4	11947.0	13052.2
12.5°	3877.5	4551.2	5324.7	6175.1	7080.3	8031.8	9037.1	10084.7	11161.7	12274.5	13415.1
10°	3940.5	4632.3	5427.7	6297.6	7222.5	8195.1	9227.3	10297.4	11402.5	12546.6	13717.3
7.5°	3989.7	4695.6	5508.2	6393.5	7333.9	8323.1	9376.5	10464.5	11591.9	12760.9	13955.8
5°	4025.0	4741.1	5566.0	6462.3	7413.8	8415.0	9483.8	10584.8	11728.3	12915.5	14128.1
2.5°	4046.2	4768.4	5600.7	6503.7	7461.9	8470.4	9548.5	10657.3	11810.6	13008.9	14232.2
0°	4053.3	4777.5	5612.3	6517.5	7478.0	8488.9	9570.1	10681.5	11838.1	13040.1	14267.1
-2.5°	4046.2	4768.4	5600.7	6503.7	7461.9	8470.4	9548.5	10657.3	11810.6	13008.9	14232.2
-5°	4025.0	4741.1	5566.0	6462.3	7413.8	8415.0	9483.8	10584.8	11728.3	12915.5	14128.1
-7.5°	3989.7	4695.6	5508.2	6393.5	7333.9	8323.1	9376.5	10464.5	11591.9	12760.9	13955.8
-10°	3940.5	4632.3	5427.7	6297.6	7222.5	8195.1	9227.3	10297.4	11402.5	12546.6	13717.3
-12.5°	3877.5	4551.2	5324.7	6175.1	7080.3	8031.8	9037.1	10084.7	11161.7	12274.5	13415.1
-15°	3800.9	4452.8	5199.8	6026.6	6908.0	7834.2	8807.1	9827.7	10871.4	11947.0	13052.2
-17.5°	3711.1	4337.3	5053.3	5852.5	6706.4	7603.1	8538.6	9529.4	10539.5	11577.1	12640.3
-20°	3608.2	4205.2	4885.9	5653.8	6478.8	7346.8	8249.8	9198.7	10171.7	11163.5	12176.0

Classified

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

Scaled Data Report



REPORT NUMBER: P624775 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-06-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°	3492.6	4056.9	4708.6	5445.3	6236.3	7067.4	7931.2	8830.3	9763.0	10705.0	11669.4
-25°	3374.6	3915.2	4528.6	5218.7	5969.1	6759.9	7581.3	8430.6	9322.9	10223.3	11132.0
-27.5°	3256.1	3760.9	4332.3	4971.8	5678.2	6431.1	7215.4	8021.7	8853.0	9705.1	10559.5
-30°	3127.9	3594.1	4120.1	4714.9	5384.1	6092.4	6828.1	7583.6	8359.6	9163.9	9969.4
-32.5°	2990.3	3417.4	3915.2	4467.7	5075.4	5731.1	6421.7	7136.1	7861.6	8595.4	9353.1
-35°	2851.9	3256.1	3707.1	4205.2	4752.0	5369.2	6011.1	6669.7	7344.6	8030.5	8719.1
-37.5°	2718.7	3085.6	3487.3	3945.6	4452.8	4998.2	5582.4	6200.3	6823.9	7449.8	8087.2
-40°	2578.5	2906.1	3282.9	3695.3	4139.3	4632.3	5167.1	5720.1	6295.7	6875.6	7449.8
-42.5°	2433.0	2744.5	3078.5	3433.9	3845.9	4281.7	4741.1	5252.3	5767.1	6295.7	6823.9
-45°	2291.6	2576.7	2870.8	3203.2	3553.6	3937.1	4353.5	4777.5	5252.3	5720.1	6200.3
-47.5°	2144.7	2406.1	2681.6	2964.9	3278.7	3613.9	3967.6	4353.5	4741.1	5167.1	5582.4
-50°	1995.4	2239.9	2486.1	2745.0	3014.8	3303.9	3613.9	3937.1	4281.7	4632.3	4998.2
-52.5°	1849.8	2068.6	2297.5	2528.1	2766.3	3014.8	3278.7	3553.6	3845.9	4139.3	4452.8
-55°	1699.9	1902.5	2106.8	2316.8	2528.1	2745.0	2964.9	3203.2	3433.9	3695.3	3945.6
-57.5°	1553.8	1734.9	1920.1	2106.8	2297.5	2486.1	2681.6	2870.8	3078.5	3282.9	3487.3
-60°	1408.6	1569.9	1734.9	1902.5	2068.6	2239.9	2406.1	2576.7	2744.5	2906.1	3085.6
-62.5°	1263.4	1408.6	1553.8	1699.9	1849.8	1995.4	2144.7	2291.6	2433.0	2578.5	2718.7
-65°	1129.4	1249.3	1376.6	1505.7	1631.4	1762.6	1890.7	2014.3	2141.0	2263.7	2380.6
-67.5°	993.1	1101.3	1207.0	1313.0	1426.2	1535.9	1642.1	1752.9	1859.5	1961.5	2060.8
-70°	869.5	953.6	1045.3	1137.0	1226.2	1316.0	1410.2	1501.0	1588.2	1673.8	1759.8
-72.5°	747.3	820.9	892.9	963.1	1040.0	1115.7	1188.7	1259.1	1331.6	1404.2	1473.4
-75°	627.5	687.3	748.6	808.8	867.2	923.8	979.5	1039.7	1097.4	1152.5	1204.9
-77.5°	509.5	559.3	608.0	655.4	701.9	749.0	794.5	838.2	880.1	920.1	958.1
-80°	396.2	430.8	469.5	507.4	544.2	579.8	614.2	647.2	678.9	710.0	740.3
-82.5°	292.7	318.6	343.9	368.6	392.4	415.6	438.7	463.4	487.1	509.8	531.2
-85°	190.2	206.0	222.9	239.3	255.2	270.6	285.5	299.7	313.4	326.4	338.8
-87.5°	95.2	103.1	110.8	118.2	125.5	132.5	139.3	145.8	152.0	157.9	163.6
-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: P624775 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-06-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°	168.9	173.9	178.6	182.9	186.9	190.5	193.8	196.7	199.2	201.3	203.1
85°	350.5	361.5	371.7	381.3	390.0	398.0	405.1	411.5	417.0	421.7	425.6
82.5°	551.5	570.6	588.4	604.9	620.1	634.0	646.4	657.5	667.1	675.3	682.0
80°	769.0	795.9	821.1	844.5	866.0	885.6	903.3	918.9	932.5	944.1	953.6
77.5°	997.5	1036.2	1072.4	1106.0	1136.9	1165.1	1190.5	1213.0	1232.6	1249.3	1263.0
75°	1254.5	1302.9	1352.0	1397.7	1439.7	1478.0	1512.5	1543.2	1569.9	1592.6	1611.2
72.5°	1538.8	1600.4	1659.2	1717.3	1770.7	1819.5	1863.5	1902.5	1936.5	1965.5	1989.2
70°	1841.2	1918.0	1989.8	2058.5	2124.8	2185.4	2239.9	2288.4	2330.7	2366.7	2396.3
67.5°	2160.1	2253.7	2341.3	2422.9	2502.2	2576.7	2643.9	2703.6	2755.7	2800.1	2836.5
65°	2495.2	2608.6	2715.1	2814.1	2906.1	3003.6	3091.6	3169.8	3238.1	3296.3	3344.1
62.5°	2851.9	2990.3	3127.9	3256.1	3374.6	3492.6	3608.2	3711.1	3800.9	3877.5	3940.5
60°	3256.1	3417.4	3594.1	3760.9	3915.2	4056.9	4205.2	4337.3	4452.8	4551.2	4632.3
57.5°	3707.1	3915.2	4120.1	4332.3	4528.6	4708.6	4885.9	5053.3	5199.8	5324.7	5427.7
55°	4205.2	4467.7	4714.9	4971.8	5218.7	5445.3	5653.8	5852.5	6026.6	6175.1	6297.6
52.5°	4752.0	5075.4	5384.1	5678.2	5969.1	6236.3	6478.8	6706.4	6908.0	7080.3	7222.5
50°	5369.2	5731.1	6092.4	6431.1	6759.9	7067.4	7346.8	7603.1	7834.2	8031.8	8195.1
47.5°	6011.1	6421.7	6828.1	7215.4	7581.3	7931.2	8249.8	8538.6	8807.1	9037.1	9227.3
45°	6669.7	7136.1	7583.6	8021.7	8430.6	8830.3	9198.7	9529.4	9827.7	10084.7	10297.4
42.5°	7344.6	7861.6	8359.6	8853.0	9322.9	9763.0	10171.7	10539.5	10871.4	11161.7	11402.5
40°	8030.5	8595.4	9163.9	9705.1	10223.3	10705.0	11163.5	11577.1	11947.0	12274.5	12546.6
37.5°	8719.1	9353.1	9969.4	10559.5	11132.0	11669.4	12176.0	12640.3	13052.2	13415.1	13717.3
35°	9416.6	10103.0	10767.8	11422.6	12048.0	12647.1	13202.8	13714.5	14169.7	14566.4	14898.2
32.5°	10103.0	10839.5	11569.7	12283.2	12968.5	13622.5	14229.0	14785.8	15283.1	15719.6	16089.0
30°	10767.8	11569.7	12362.4	13133.4	13879.4	14583.8	15241.3	15849.7	16400.0	16878.9	17277.9
27.5°	11422.6	12283.2	13133.4	13965.9	14764.2	15521.3	16242.3	16903.5	17493.7	18011.4	18441.7
25°	12048.0	12968.5	13879.4	14764.2	15617.6	16442.4	17211.3	17918.8	18551.3	19108.2	19575.8
22.5°	12647.1	13622.5	14583.8	15521.3	16442.4	17315.4	18134.4	18886.2	19567.2	20167.5	20671.5
20°	13202.8	14229.0	15241.3	16242.3	17211.3	18134.4	18999.8	19802.2	20533.7	21165.5	21703.4
17.5°	13714.5	14785.8	15849.7	16903.5	17918.8	18886.2	19802.2	20654.4	21421.6	22079.3	22642.2
15°	14169.7	15283.1	16400.0	17493.7	18551.3	19567.2	20533.7	21421.6	22208.2	22894.4	23461.9
12.5°	14566.4	15719.6	16878.9	18011.4	19108.2	20167.5	21165.5	22079.3	22894.4	23599.8	24165.3
10°	14898.2	16089.0	17277.9	18441.7	19575.8	20671.5	21703.4	22642.2	23461.9	24165.3	24749.9
7.5°	15160.8	16382.0	17595.4	18785.6	19949.8	21069.8	22115.9	23064.4	23902.2	24622.3	25220.4
5°	15350.7	16594.5	17826.4	19036.6	20223.9	21363.4	22422.4	23378.9	24221.3	24940.5	25520.3
2.5°	15465.7	16723.3	17966.6	19189.4	20391.4	21543.6	22611.5	23574.6	24422.3	25144.5	25718.5
0°	15504.2	16766.5	18013.7	19240.7	20447.7	21604.3	22675.5	23641.1	24491.0	25215.1	25788.4
-2.5°	15465.7	16723.3	17966.6	19189.4	20391.4	21543.6	22611.5	23574.6	24422.3	25144.5	25718.5
-5°	15350.7	16594.5	17826.4	19036.6	20223.9	21363.4	22422.4	23378.9	24221.3	24940.5	25520.3
-7.5°	15160.8	16382.0	17595.4	18785.6	19949.8	21069.8	22115.9	23064.4	23902.2	24622.3	25220.4
-10°	14898.2	16089.0	17277.9	18441.7	19575.8	20671.5	21703.4	22642.2	23461.9	24165.3	24749.9
-12.5°	14566.4	15719.6	16878.9	18011.4	19108.2	20167.5	21165.5	22079.3	22894.4	23599.8	24165.3
-15°	14169.7	15283.1	16400.0	17493.7	18551.3	19567.2	20533.7	21421.6	22208.2	22894.4	23461.9
-17.5°	13714.5	14785.8	15849.7	16903.5	17918.8	18886.2	19802.2	20654.4	21421.6	22079.3	22642.2
-20°	13202.8	14229.0	15241.3	16242.3	17211.3	18134.4	18999.8	19802.2	20533.7	21165.5	21703.4



REPORT NUMBER: P624775 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-06-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°	12647.1	13622.5	14583.8	15521.3	16442.4	17315.4	18134.4	18886.2	19567.2	20167.5	20671.5
-25°	12048.0	12968.5	13879.4	14764.2	15617.6	16442.4	17211.3	17918.8	18551.3	19108.2	19575.8
-27.5°	11422.6	12283.2	13133.4	13965.9	14764.2	15521.3	16242.3	16903.5	17493.7	18011.4	18441.7
-30°	10767.8	11569.7	12362.4	13133.4	13879.4	14583.8	15241.3	15849.7	16400.0	16878.9	17277.9
-32.5°	10103.0	10839.5	11569.7	12283.2	12968.5	13622.5	14229.0	14785.8	15283.1	15719.6	16089.0
-35°	9416.6	10103.0	10767.8	11422.6	12048.0	12647.1	13202.8	13714.5	14169.7	14566.4	14898.2
-37.5°	8719.1	9353.1	9969.4	10559.5	11132.0	11669.4	12176.0	12640.3	13052.2	13415.1	13717.3
-40°	8030.5	8595.4	9163.9	9705.1	10223.3	10705.0	11163.5	11577.1	11947.0	12274.5	12546.6
-42.5°	7344.6	7861.6	8359.6	8853.0	9322.9	9763.0	10171.7	10539.5	10871.4	11161.7	11402.5
-45°	6669.7	7136.1	7583.6	8021.7	8430.6	8830.3	9198.7	9529.4	9827.7	10084.7	10297.4
-47.5°	6011.1	6421.7	6828.1	7215.4	7581.3	7931.2	8249.8	8538.6	8807.1	9037.1	9227.3
-50°	5369.2	5731.1	6092.4	6431.1	6759.9	7067.4	7346.8	7603.1	7834.2	8031.8	8195.1
-52.5°	4752.0	5075.4	5384.1	5678.2	5969.1	6236.3	6478.8	6706.4	6908.0	7080.3	7222.5
-55°	4205.2	4467.7	4714.9	4971.8	5218.7	5445.3	5653.8	5852.5	6026.6	6175.1	6297.6
-57.5°	3707.1	3915.2	4120.1	4332.3	4528.6	4708.6	4885.9	5053.3	5199.8	5324.7	5427.7
-60°	3256.1	3417.4	3594.1	3760.9	3915.2	4056.9	4205.2	4337.3	4452.8	4551.2	4632.3
-62.5°	2851.9	2990.3	3127.9	3256.1	3374.6	3492.6	3608.2	3711.1	3800.9	3877.5	3940.5
-65°	2495.2	2608.6	2715.1	2814.1	2906.1	3003.6	3091.6	3169.8	3238.1	3296.3	3344.1
-67.5°	2160.1	2253.7	2341.3	2422.9	2502.2	2576.7	2643.9	2703.6	2755.7	2800.1	2836.5
-70°	1841.2	1918.0	1989.8	2058.5	2124.8	2185.4	2239.9	2288.4	2330.7	2366.7	2396.3
-72.5°	1538.8	1600.4	1659.2	1717.3	1770.7	1819.5	1863.5	1902.5	1936.5	1965.5	1989.2
-75°	1254.5	1302.9	1352.0	1397.7	1439.7	1478.0	1512.5	1543.2	1569.9	1592.6	1611.2
-77.5°	997.5	1036.2	1072.4	1106.0	1136.9	1165.1	1190.5	1213.0	1232.6	1249.3	1263.0
-80°	769.0	795.9	821.1	844.5	866.0	885.6	903.3	918.9	932.5	944.1	953.6
-82.5°	551.5	570.6	588.4	604.9	620.1	634.0	646.4	657.5	667.1	675.3	682.0
-85°	350.5	361.5	371.7	381.3	390.0	398.0	405.1	411.5	417.0	421.7	425.6
-87.5°	168.9	173.9	178.6	182.9	186.9	190.5	193.8	196.7	199.2	201.3	203.1
-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: P624775 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-VN-06-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°	204.4	205.4	206.0	206.2	206.0	205.4	204.4	203.1	201.3	199.2	196.7
85°	428.6	430.8	432.1	432.5	432.1	430.8	428.6	425.6	421.7	417.0	411.5
82.5°	687.3	691.0	693.2	694.0	693.2	691.0	687.3	682.0	675.3	667.1	657.5
80°	961.0	966.3	969.5	970.6	969.5	966.3	961.0	953.6	944.1	932.5	918.9
77.5°	1273.6	1281.3	1285.9	1287.4	1285.9	1281.3	1273.6	1263.0	1249.3	1232.6	1213.0
75°	1625.7	1636.2	1642.4	1644.5	1642.4	1636.2	1625.7	1611.2	1592.6	1569.9	1543.2
72.5°	2007.8	2021.1	2029.0	2031.7	2029.0	2021.1	2007.8	1989.2	1965.5	1936.5	1902.5
70°	2419.3	2435.9	2445.8	2449.1	2445.8	2435.9	2419.3	2396.3	2366.7	2330.7	2288.4
67.5°	2865.0	2885.4	2897.6	2901.7	2897.6	2885.4	2865.0	2836.5	2800.1	2755.7	2703.6
65°	3381.5	3408.2	3424.3	3429.7	3424.3	3408.2	3381.5	3344.1	3296.3	3238.1	3169.8
62.5°	3989.7	4025.0	4046.2	4053.3	4046.2	4025.0	3989.7	3940.5	3877.5	3800.9	3711.1
60°	4695.6	4741.1	4768.4	4777.5	4768.4	4741.1	4695.6	4632.3	4551.2	4452.8	4337.3
57.5°	5508.2	5566.0	5600.7	5612.3	5600.7	5566.0	5508.2	5427.7	5324.7	5199.8	5053.3
55°	6393.5	6462.3	6503.7	6517.5	6503.7	6462.3	6393.5	6297.6	6175.1	6026.6	5852.5
52.5°	7333.9	7413.8	7461.9	7478.0	7461.9	7413.8	7333.9	7222.5	7080.3	6908.0	6706.4
50°	8323.1	8415.0	8470.4	8488.9	8470.4	8415.0	8323.1	8195.1	8031.8	7834.2	7603.1
47.5°	9376.5	9483.8	9548.5	9570.1	9548.5	9483.8	9376.5	9227.3	9037.1	8807.1	8538.6
45°	10464.5	10584.8	10657.3	10681.5	10657.3	10584.8	10464.5	10297.4	10084.7	9827.7	9529.4
42.5°	11591.9	11728.3	11810.6	11838.1	11810.6	11728.3	11591.9	11402.5	11161.7	10871.4	10539.5
40°	12760.9	12915.5	13008.9	13040.1	13008.9	12915.5	12760.9	12546.6	12274.5	11947.0	11577.1
37.5°	13955.8	14128.1	14232.2	14267.1	14232.2	14128.1	13955.8	13717.3	13415.1	13052.2	12640.3
35°	15160.8	15350.7	15465.7	15504.2	15465.7	15350.7	15160.8	14898.2	14566.4	14169.7	13714.5
32.5°	16382.0	16594.5	16723.3	16766.5	16723.3	16594.5	16382.0	16089.0	15719.6	15283.1	14785.8
30°	17595.4	17826.4	17966.6	18013.7	17966.6	17826.4	17595.4	17277.9	16878.9	16400.0	15849.7
27.5°	18785.6	19036.6	19189.4	19240.7	19189.4	19036.6	18785.6	18441.7	18011.4	17493.7	16903.5
25°	19949.8	20223.9	20391.4	20447.7	20391.4	20223.9	19949.8	19575.8	19108.2	18551.3	17918.8
22.5°	21069.8	21363.4	21543.6	21604.3	21543.6	21363.4	21069.8	20671.5	20167.5	19567.2	18886.2
20°	22115.9	22422.4	22611.5	22675.5	22611.5	22422.4	22115.9	21703.4	21165.5	20533.7	19802.2
17.5°	23064.4	23378.9	23574.6	23641.1	23574.6	23378.9	23064.4	22642.2	22079.3	21421.6	20654.4
15°	23902.2	24221.3	24422.3	24491.0	24422.3	24221.3	23902.2	23461.9	22894.4	22208.2	21421.6
12.5°	24622.3	24940.5	25144.5	25215.1	25144.5	24940.5	24622.3	24165.3	23599.8	22894.4	22079.3
10°	25220.4	25520.3	25718.5	25788.4	25718.5	25520.3	25220.4	24749.9	24165.3	23461.9	22642.2
7.5°	25652.8	25952.4	26134.2	26200.8	26134.2	25952.4	25652.8	25220.4	24622.3	23902.2	23064.4
5°	25952.4	26254.9	26439.2	26512.6	26439.2	26254.9	25952.4	25520.3	24940.5	24221.3	23378.9
2.5°	26134.2	26439.2	26639.3	26728.8	26639.3	26439.2	26134.2	25718.5	25144.5	24422.3	23574.6
0°	26200.8	26512.6	26728.8	26789.2	26728.8	26512.6	26200.8	25788.4	25215.1	24491.0	23641.1
-2.5°	26134.2	26439.2	26639.3	26728.8	26639.3	26439.2	26134.2	25718.5	25144.5	24422.3	23574.6
-5°	25952.4	26254.9	26439.2	26512.6	26439.2	26254.9	25952.4	25520.3	24940.5	24221.3	23378.9
-7.5°	25652.8	25952.4	26134.2	26200.8	26134.2	25952.4	25652.8	25220.4	24622.3	23902.2	23064.4
-10°	25220.4	25520.3	25718.5	25788.4	25718.5	25520.3	25220.4	24749.9	24165.3	23461.9	22642.2
-12.5°	24622.3	24940.5	25144.5	25215.1	25144.5	24940.5	24622.3	24165.3	23599.8	22894.4	22079.3
-15°	23902.2	24221.3	24422.3	24491.0	24422.3	24221.3	23902.2	23461.9	22894.4	22208.2	21421.6
-17.5°	23064.4	23378.9	23574.6	23641.1	23574.6	23378.9	23064.4	22642.2	22079.3	21421.6	20654.4
-20°	22115.9	22422.4	22611.5	22675.5	22611.5	22422.4	22115.9	21703.4	21165.5	20533.7	19802.2



REPORT NUMBER: P624775 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-VN-06-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°	21069.8	21363.4	21543.6	21604.3	21543.6	21363.4	21069.8	20671.5	20167.5	19567.2	18886.2
-25°	19949.8	20223.9	20391.4	20447.7	20391.4	20223.9	19949.8	19575.8	19108.2	18551.3	17918.8
-27.5°	18785.6	19036.6	19189.4	19240.7	19189.4	19036.6	18785.6	18441.7	18011.4	17493.7	16903.5
-30°	17595.4	17826.4	17966.6	18013.7	17966.6	17826.4	17595.4	17277.9	16878.9	16400.0	15849.7
-32.5°	16382.0	16594.5	16723.3	16766.5	16723.3	16594.5	16382.0	16089.0	15719.6	15283.1	14785.8
-35°	15160.8	15350.7	15465.7	15504.2	15465.7	15350.7	15160.8	14898.2	14566.4	14169.7	13714.5
-37.5°	13955.8	14128.1	14232.2	14267.1	14232.2	14128.1	13955.8	13717.3	13415.1	13052.2	12640.3
-40°	12760.9	12915.5	13008.9	13040.1	13008.9	12915.5	12760.9	12546.6	12274.5	11947.0	11577.1
-42.5°	11591.9	11728.3	11810.6	11838.1	11810.6	11728.3	11591.9	11402.5	11161.7	10871.4	10539.5
-45°	10464.5	10584.8	10657.3	10681.5	10657.3	10584.8	10464.5	10297.4	10084.7	9827.7	9529.4
-47.5°	9376.5	9483.8	9548.5	9570.1	9548.5	9483.8	9376.5	9227.3	9037.1	8807.1	8538.6
-50°	8323.1	8415.0	8470.4	8488.9	8470.4	8415.0	8323.1	8195.1	8031.8	7834.2	7603.1
-52.5°	7333.9	7413.8	7461.9	7478.0	7461.9	7413.8	7333.9	7222.5	7080.3	6908.0	6706.4
-55°	6393.5	6462.3	6503.7	6517.5	6503.7	6462.3	6393.5	6297.6	6175.1	6026.6	5852.5
-57.5°	5508.2	5566.0	5600.7	5612.3	5600.7	5566.0	5508.2	5427.7	5324.7	5199.8	5053.3
-60°	4695.6	4741.1	4768.4	4777.5	4768.4	4741.1	4695.6	4632.3	4551.2	4452.8	4337.3
-62.5°	3989.7	4025.0	4046.2	4053.3	4046.2	4025.0	3989.7	3940.5	3877.5	3800.9	3711.1
-65°	3381.5	3408.2	3424.3	3429.7	3424.3	3408.2	3381.5	3344.1	3296.3	3238.1	3169.8
-67.5°	2865.0	2885.4	2897.6	2901.7	2897.6	2885.4	2865.0	2836.5	2800.1	2755.7	2703.6
-70°	2419.3	2435.9	2445.8	2449.1	2445.8	2435.9	2419.3	2396.3	2366.7	2330.7	2288.4
-72.5°	2007.8	2021.1	2029.0	2031.7	2029.0	2021.1	2007.8	1989.2	1965.5	1936.5	1902.5
-75°	1625.7	1636.2	1642.4	1644.5	1642.4	1636.2	1625.7	1611.2	1592.6	1569.9	1543.2
-77.5°	1273.6	1281.3	1285.9	1287.4	1285.9	1281.3	1273.6	1263.0	1249.3	1232.6	1213.0
-80°	961.0	966.3	969.5	970.6	969.5	966.3	961.0	953.6	944.1	932.5	918.9
-82.5°	687.3	691.0	693.2	694.0	693.2	691.0	687.3	682.0	675.3	667.1	657.5
-85°	428.6	430.8	432.1	432.5	432.1	430.8	428.6	425.6	421.7	417.0	411.5
-87.5°	204.4	205.4	206.0	206.2	206.0	205.4	204.4	203.1	201.3	199.2	196.7
-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: P624775 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-06-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°	193.8	190.5	186.9	182.9	178.6	173.9	168.9	163.6	157.9	152.0	145.8
85°	405.1	398.0	390.0	381.3	371.7	361.5	350.5	338.8	326.4	313.4	299.7
82.5°	646.4	634.0	620.1	604.9	588.4	570.6	551.5	531.2	509.8	487.1	463.4
80°	903.3	885.6	866.0	844.5	821.1	795.9	769.0	740.3	710.0	678.9	647.2
77.5°	1190.5	1165.1	1136.9	1106.0	1072.4	1036.2	997.5	958.1	920.1	880.1	838.2
75°	1512.5	1478.0	1439.7	1397.7	1352.0	1302.9	1254.5	1204.9	1152.5	1097.4	1039.7
72.5°	1863.5	1819.5	1770.7	1717.3	1659.2	1600.4	1538.8	1473.4	1404.2	1331.6	1259.1
70°	2239.9	2185.4	2124.8	2058.5	1989.8	1918.0	1841.2	1759.8	1673.8	1588.2	1501.0
67.5°	2643.9	2576.7	2502.2	2422.9	2341.3	2253.7	2160.1	2060.8	1961.5	1859.5	1752.9
65°	3091.6	3003.6	2906.1	2814.1	2715.1	2608.6	2495.2	2380.6	2263.7	2141.0	2014.3
62.5°	3608.2	3492.6	3374.6	3256.1	3127.9	2990.3	2851.9	2718.7	2578.5	2433.0	2291.6
60°	4205.2	4056.9	3915.2	3760.9	3594.1	3417.4	3256.1	3085.6	2906.1	2744.5	2576.7
57.5°	4885.9	4708.6	4528.6	4332.3	4120.1	3915.2	3707.1	3487.3	3282.9	3078.5	2870.8
55°	5653.8	5445.3	5218.7	4971.8	4714.9	4467.7	4205.2	3945.6	3695.3	3433.9	3203.2
52.5°	6478.8	6236.3	5969.1	5678.2	5384.1	5075.4	4752.0	4452.8	4139.3	3845.9	3553.6
50°	7346.8	7067.4	6759.9	6431.1	6092.4	5731.1	5369.2	4998.2	4632.3	4281.7	3937.1
47.5°	8249.8	7931.2	7581.3	7215.4	6828.1	6421.7	6011.1	5582.4	5167.1	4741.1	4353.5
45°	9198.7	8830.3	8430.6	8021.7	7583.6	7136.1	6669.7	6200.3	5720.1	5252.3	4777.5
42.5°	10171.7	9763.0	9322.9	8853.0	8359.6	7861.6	7344.6	6823.9	6295.7	5767.1	5252.3
40°	11163.5	10705.0	10223.3	9705.1	9163.9	8595.4	8030.5	7449.8	6875.6	6295.7	5720.1
37.5°	12176.0	11669.4	11132.0	10559.5	9969.4	9353.1	8719.1	8087.2	7449.8	6823.9	6200.3
35°	13202.8	12647.1	12048.0	11422.6	10767.8	10103.0	9416.6	8719.1	8030.5	7344.6	6669.7
32.5°	14229.0	13622.5	12968.5	12283.2	11569.7	10839.5	10103.0	9353.1	8595.4	7861.6	7136.1
30°	15241.3	14583.8	13879.4	13133.4	12362.4	11569.7	10767.8	9969.4	9163.9	8359.6	7583.6
27.5°	16242.3	15521.3	14764.2	13965.9	13133.4	12283.2	11422.6	10559.5	9705.1	8853.0	8021.7
25°	17211.3	16442.4	15617.6	14764.2	13879.4	12968.5	12048.0	11132.0	10223.3	9322.9	8430.6
22.5°	18134.4	17315.4	16442.4	15521.3	14583.8	13622.5	12647.1	11669.4	10705.0	9763.0	8830.3
20°	18999.8	18134.4	17211.3	16242.3	15241.3	14229.0	13202.8	12176.0	11163.5	10171.7	9198.7
17.5°	19802.2	18886.2	17918.8	16903.5	15849.7	14785.8	13714.5	12640.3	11577.1	10539.5	9529.4
15°	20533.7	19567.2	18551.3	17493.7	16400.0	15283.1	14169.7	13052.2	11947.0	10871.4	9827.7
12.5°	21165.5	20167.5	19108.2	18011.4	16878.9	15719.6	14566.4	13415.1	12274.5	11161.7	10084.7
10°	21703.4	20671.5	19575.8	18441.7	17277.9	16089.0	14898.2	13717.3	12546.6	11402.5	10297.4
7.5°	22115.9	21069.8	19949.8	18785.6	17595.4	16382.0	15160.8	13955.8	12760.9	11591.9	10464.5
5°	22422.4	21363.4	20223.9	19036.6	17826.4	16594.5	15350.7	14128.1	12915.5	11728.3	10584.8
2.5°	22611.5	21543.6	20391.4	19189.4	17966.6	16723.3	15465.7	14232.2	13008.9	11810.6	10657.3
0°	22675.5	21604.3	20447.7	19240.7	18013.7	16766.5	15504.2	14267.1	13040.1	11838.1	10681.5
-2.5°	22611.5	21543.6	20391.4	19189.4	17966.6	16723.3	15465.7	14232.2	13008.9	11810.6	10657.3
-5°	22422.4	21363.4	20223.9	19036.6	17826.4	16594.5	15350.7	14128.1	12915.5	11728.3	10584.8
-7.5°	22115.9	21069.8	19949.8	18785.6	17595.4	16382.0	15160.8	13955.8	12760.9	11591.9	10464.5
-10°	21703.4	20671.5	19575.8	18441.7	17277.9	16089.0	14898.2	13717.3	12546.6	11402.5	10297.4
-12.5°	21165.5	20167.5	19108.2	18011.4	16878.9	15719.6	14566.4	13415.1	12274.5	11161.7	10084.7
-15°	20533.7	19567.2	18551.3	17493.7	16400.0	15283.1	14169.7	13052.2	11947.0	10871.4	9827.7
-17.5°	19802.2	18886.2	17918.8	16903.5	15849.7	14785.8	13714.5	12640.3	11577.1	10539.5	9529.4
-20°	18999.8	18134.4	17211.3	16242.3	15241.3	14229.0	13202.8	12176.0	11163.5	10171.7	9198.7



REPORT NUMBER: P624775 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-VN-06-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°	18134.4	17315.4	16442.4	15521.3	14583.8	13622.5	12647.1	11669.4	10705.0	9763.0	8830.3
-25°	17211.3	16442.4	15617.6	14764.2	13879.4	12968.5	12048.0	11132.0	10223.3	9322.9	8430.6
-27.5°	16242.3	15521.3	14764.2	13965.9	13133.4	12283.2	11422.6	10559.5	9705.1	8853.0	8021.7
-30°	15241.3	14583.8	13879.4	13133.4	12362.4	11569.7	10767.8	9969.4	9163.9	8359.6	7583.6
-32.5°	14229.0	13622.5	12968.5	12283.2	11569.7	10839.5	10103.0	9353.1	8595.4	7861.6	7136.1
-35°	13202.8	12647.1	12048.0	11422.6	10767.8	10103.0	9416.6	8719.1	8030.5	7344.6	6669.7
-37.5°	12176.0	11669.4	11132.0	10559.5	9969.4	9353.1	8719.1	8087.2	7449.8	6823.9	6200.3
-40°	11163.5	10705.0	10223.3	9705.1	9163.9	8595.4	8030.5	7449.8	6875.6	6295.7	5720.1
-42.5°	10171.7	9763.0	9322.9	8853.0	8359.6	7861.6	7344.6	6823.9	6295.7	5767.1	5252.3
-45°	9198.7	8830.3	8430.6	8021.7	7583.6	7136.1	6669.7	6200.3	5720.1	5252.3	4777.5
-47.5°	8249.8	7931.2	7581.3	7215.4	6828.1	6421.7	6011.1	5582.4	5167.1	4741.1	4353.5
-50°	7346.8	7067.4	6759.9	6431.1	6092.4	5731.1	5369.2	4998.2	4632.3	4281.7	3937.1
-52.5°	6478.8	6236.3	5969.1	5678.2	5384.1	5075.4	4752.0	4452.8	4139.3	3845.9	3553.6
-55°	5653.8	5445.3	5218.7	4971.8	4714.9	4467.7	4205.2	3945.6	3695.3	3433.9	3203.2
-57.5°	4885.9	4708.6	4528.6	4332.3	4120.1	3915.2	3707.1	3487.3	3282.9	3078.5	2870.8
-60°	4205.2	4056.9	3915.2	3760.9	3594.1	3417.4	3256.1	3085.6	2906.1	2744.5	2576.7
-62.5°	3608.2	3492.6	3374.6	3256.1	3127.9	2990.3	2851.9	2718.7	2578.5	2433.0	2291.6
-65°	3091.6	3003.6	2906.1	2814.1	2715.1	2608.6	2495.2	2380.6	2263.7	2141.0	2014.3
-67.5°	2643.9	2576.7	2502.2	2422.9	2341.3	2253.7	2160.1	2060.8	1961.5	1859.5	1752.9
-70°	2239.9	2185.4	2124.8	2058.5	1989.8	1918.0	1841.2	1759.8	1673.8	1588.2	1501.0
-72.5°	1863.5	1819.5	1770.7	1717.3	1659.2	1600.4	1538.8	1473.4	1404.2	1331.6	1259.1
-75°	1512.5	1478.0	1439.7	1397.7	1352.0	1302.9	1254.5	1204.9	1152.5	1097.4	1039.7
-77.5°	1190.5	1165.1	1136.9	1106.0	1072.4	1036.2	997.5	958.1	920.1	880.1	838.2
-80°	903.3	885.6	866.0	844.5	821.1	795.9	769.0	740.3	710.0	678.9	647.2
-82.5°	646.4	634.0	620.1	604.9	588.4	570.6	551.5	531.2	509.8	487.1	463.4
-85°	405.1	398.0	390.0	381.3	371.7	361.5	350.5	338.8	326.4	313.4	299.7
-87.5°	193.8	190.5	186.9	182.9	178.6	173.9	168.9	163.6	157.9	152.0	145.8
-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: P624775 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-06-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°	139.3	132.5	125.5	118.2	110.8	103.1	95.2	87.1	78.9	70.5	62.0
85°	285.5	270.6	255.2	239.3	222.9	206.0	190.2	174.1	157.6	140.9	123.9
82.5°	438.7	415.6	392.4	368.6	343.9	318.6	292.7	266.1	239.1	211.5	185.5
80°	614.2	579.8	544.2	507.4	469.5	430.8	396.2	360.9	324.8	288.1	250.8
77.5°	794.5	749.0	701.9	655.4	608.0	559.3	509.5	458.5	410.0	364.2	317.7
75°	979.5	923.8	867.2	808.8	748.6	687.3	627.5	566.4	504.1	440.7	384.0
72.5°	1188.7	1115.7	1040.0	963.1	892.9	820.9	747.3	673.2	600.7	527.0	452.2
70°	1410.2	1316.0	1226.2	1137.0	1045.3	953.6	869.5	783.7	696.3	612.2	527.0
67.5°	1642.1	1535.9	1426.2	1313.0	1207.0	1101.3	993.1	894.0	795.9	696.3	600.7
65°	1890.7	1762.6	1631.4	1505.7	1376.6	1249.3	1129.4	1007.2	894.0	783.7	673.2
62.5°	2144.7	1995.4	1849.8	1699.9	1553.8	1408.6	1263.4	1129.4	993.1	869.5	747.3
60°	2406.1	2239.9	2068.6	1902.5	1734.9	1569.9	1408.6	1249.3	1101.3	953.6	820.9
57.5°	2681.6	2486.1	2297.5	2106.8	1920.1	1734.9	1553.8	1376.6	1207.0	1045.3	892.9
55°	2964.9	2745.0	2528.1	2316.8	2106.8	1902.5	1699.9	1505.7	1313.0	1137.0	963.1
52.5°	3278.7	3014.8	2766.3	2528.1	2297.5	2068.6	1849.8	1631.4	1426.2	1226.2	1040.0
50°	3613.9	3303.9	3014.8	2745.0	2486.1	2239.9	1995.4	1762.6	1535.9	1316.0	1115.7
47.5°	3967.6	3613.9	3278.7	2964.9	2681.6	2406.1	2144.7	1890.7	1642.1	1410.2	1188.7
45°	4353.5	3937.1	3553.6	3203.2	2870.8	2576.7	2291.6	2014.3	1752.9	1501.0	1259.1
42.5°	4741.1	4281.7	3845.9	3433.9	3078.5	2744.5	2433.0	2141.0	1859.5	1588.2	1331.6
40°	5167.1	4632.3	4139.3	3695.3	3282.9	2906.1	2578.5	2263.7	1961.5	1673.8	1404.2
37.5°	5582.4	4998.2	4452.8	3945.6	3487.3	3085.6	2718.7	2380.6	2060.8	1759.8	1473.4
35°	6011.1	5369.2	4752.0	4205.2	3707.1	3256.1	2851.9	2495.2	2160.1	1841.2	1538.8
32.5°	6421.7	5731.1	5075.4	4467.7	3915.2	3417.4	2990.3	2608.6	2253.7	1918.0	1600.4
30°	6828.1	6092.4	5384.1	4714.9	4120.1	3594.1	3127.9	2715.1	2341.3	1989.8	1659.2
27.5°	7215.4	6431.1	5678.2	4971.8	4332.3	3760.9	3256.1	2814.1	2422.9	2058.5	1717.3
25°	7581.3	6759.9	5969.1	5218.7	4528.6	3915.2	3374.6	2906.1	2502.2	2124.8	1770.7
22.5°	7931.2	7067.4	6236.3	5445.3	4708.6	4056.9	3492.6	3003.6	2576.7	2185.4	1819.5
20°	8249.8	7346.8	6478.8	5653.8	4885.9	4205.2	3608.2	3091.6	2643.9	2239.9	1863.5
17.5°	8538.6	7603.1	6706.4	5852.5	5053.3	4337.3	3711.1	3169.8	2703.6	2288.4	1902.5
15°	8807.1	7834.2	6908.0	6026.6	5199.8	4452.8	3800.9	3238.1	2755.7	2330.7	1936.5
12.5°	9037.1	8031.8	7080.3	6175.1	5324.7	4551.2	3877.5	3296.3	2800.1	2366.7	1965.5
10°	9227.3	8195.1	7222.5	6297.6	5427.7	4632.3	3940.5	3344.1	2836.5	2396.3	1989.2
7.5°	9376.5	8323.1	7333.9	6393.5	5508.2	4695.6	3989.7	3381.5	2865.0	2419.3	2007.8
5°	9483.8	8415.0	7413.8	6462.3	5566.0	4741.1	4025.0	3408.2	2885.4	2435.9	2021.1
2.5°	9548.5	8470.4	7461.9	6503.7	5600.7	4768.4	4046.2	3424.3	2897.6	2445.8	2029.0
0°	9570.1	8488.9	7478.0	6517.5	5612.3	4777.5	4053.3	3429.7	2901.7	2449.1	2031.7
-2.5°	9548.5	8470.4	7461.9	6503.7	5600.7	4768.4	4046.2	3424.3	2897.6	2445.8	2029.0
-5°	9483.8	8415.0	7413.8	6462.3	5566.0	4741.1	4025.0	3408.2	2885.4	2435.9	2021.1
-7.5°	9376.5	8323.1	7333.9	6393.5	5508.2	4695.6	3989.7	3381.5	2865.0	2419.3	2007.8
-10°	9227.3	8195.1	7222.5	6297.6	5427.7	4632.3	3940.5	3344.1	2836.5	2396.3	1989.2
-12.5°	9037.1	8031.8	7080.3	6175.1	5324.7	4551.2	3877.5	3296.3	2800.1	2366.7	1965.5
-15°	8807.1	7834.2	6908.0	6026.6	5199.8	4452.8	3800.9	3238.1	2755.7	2330.7	1936.5
-17.5°	8538.6	7603.1	6706.4	5852.5	5053.3	4337.3	3711.1	3169.8	2703.6	2288.4	1902.5
-20°	8249.8	7346.8	6478.8	5653.8	4885.9	4205.2	3608.2	3091.6	2643.9	2239.9	1863.5



REPORT NUMBER: P624775 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-VN-06-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°	7931.2	7067.4	6236.3	5445.3	4708.6	4056.9	3492.6	3003.6	2576.7	2185.4	1819.5
-25°	7581.3	6759.9	5969.1	5218.7	4528.6	3915.2	3374.6	2906.1	2502.2	2124.8	1770.7
-27.5°	7215.4	6431.1	5678.2	4971.8	4332.3	3760.9	3256.1	2814.1	2422.9	2058.5	1717.3
-30°	6828.1	6092.4	5384.1	4714.9	4120.1	3594.1	3127.9	2715.1	2341.3	1989.8	1659.2
-32.5°	6421.7	5731.1	5075.4	4467.7	3915.2	3417.4	2990.3	2608.6	2253.7	1918.0	1600.4
-35°	6011.1	5369.2	4752.0	4205.2	3707.1	3256.1	2851.9	2495.2	2160.1	1841.2	1538.8
-37.5°	5582.4	4998.2	4452.8	3945.6	3487.3	3085.6	2718.7	2380.6	2060.8	1759.8	1473.4
-40°	5167.1	4632.3	4139.3	3695.3	3282.9	2906.1	2578.5	2263.7	1961.5	1673.8	1404.2
-42.5°	4741.1	4281.7	3845.9	3433.9	3078.5	2744.5	2433.0	2141.0	1859.5	1588.2	1331.6
-45°	4353.5	3937.1	3553.6	3203.2	2870.8	2576.7	2291.6	2014.3	1752.9	1501.0	1259.1
-47.5°	3967.6	3613.9	3278.7	2964.9	2681.6	2406.1	2144.7	1890.7	1642.1	1410.2	1188.7
-50°	3613.9	3303.9	3014.8	2745.0	2486.1	2239.9	1995.4	1762.6	1535.9	1316.0	1115.7
-52.5°	3278.7	3014.8	2766.3	2528.1	2297.5	2068.6	1849.8	1631.4	1426.2	1226.2	1040.0
-55°	2964.9	2745.0	2528.1	2316.8	2106.8	1902.5	1699.9	1505.7	1313.0	1137.0	963.1
-57.5°	2681.6	2486.1	2297.5	2106.8	1920.1	1734.9	1553.8	1376.6	1207.0	1045.3	892.9
-60°	2406.1	2239.9	2068.6	1902.5	1734.9	1569.9	1408.6	1249.3	1101.3	953.6	820.9
-62.5°	2144.7	1995.4	1849.8	1699.9	1553.8	1408.6	1263.4	1129.4	993.1	869.5	747.3
-65°	1890.7	1762.6	1631.4	1505.7	1376.6	1249.3	1129.4	1007.2	894.0	783.7	673.2
-67.5°	1642.1	1535.9	1426.2	1313.0	1207.0	1101.3	993.1	894.0	795.9	696.3	600.7
-70°	1410.2	1316.0	1226.2	1137.0	1045.3	953.6	869.5	783.7	696.3	612.2	527.0
-72.5°	1188.7	1115.7	1040.0	963.1	892.9	820.9	747.3	673.2	600.7	527.0	452.2
-75°	979.5	923.8	867.2	808.8	748.6	687.3	627.5	566.4	504.1	440.7	384.0
-77.5°	794.5	749.0	701.9	655.4	608.0	559.3	509.5	458.5	410.0	364.2	317.7
-80°	614.2	579.8	544.2	507.4	469.5	430.8	396.2	360.9	324.8	288.1	250.8
-82.5°	438.7	415.6	392.4	368.6	343.9	318.6	292.7	266.1	239.1	211.5	185.5
-85°	285.5	270.6	255.2	239.3	222.9	206.0	190.2	174.1	157.6	140.9	123.9
-87.5°	139.3	132.5	125.5	118.2	110.8	103.1	95.2	87.1	78.9	70.5	62.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Classified

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

Scaled Data Report



REPORT NUMBER: P624775 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-06-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°	53.4	44.6	35.8	26.9	18.0	9.0	0.0
85°	106.6	89.2	71.5	53.8	35.9	18.0	0.0
82.5°	159.7	133.5	107.1	80.5	53.8	26.9	0.0
80°	213.1	177.7	142.5	107.1	71.5	35.8	0.0
77.5°	270.6	223.0	177.7	133.5	89.2	44.6	0.0
75°	327.6	270.6	213.1	159.7	106.6	53.4	0.0
72.5°	384.0	317.7	250.8	185.5	123.9	62.0	0.0
70°	440.7	364.2	288.1	211.5	140.9	70.5	0.0
67.5°	504.1	410.0	324.8	239.1	157.6	78.9	0.0
65°	566.4	458.5	360.9	266.1	174.1	87.1	0.0
62.5°	627.5	509.5	396.2	292.7	190.2	95.2	0.0
60°	687.3	559.3	430.8	318.6	206.0	103.1	0.0
57.5°	748.6	608.0	469.5	343.9	222.9	110.8	0.0
55°	808.8	655.4	507.4	368.6	239.3	118.2	0.0
52.5°	867.2	701.9	544.2	392.4	255.2	125.5	0.0
50°	923.8	749.0	579.8	415.6	270.6	132.5	0.0
47.5°	979.5	794.5	614.2	438.7	285.5	139.3	0.0
45°	1039.7	838.2	647.2	463.4	299.7	145.8	0.0
42.5°	1097.4	880.1	678.9	487.1	313.4	152.0	0.0
40°	1152.5	920.1	710.0	509.8	326.4	157.9	0.0
37.5°	1204.9	958.1	740.3	531.2	338.8	163.6	0.0
35°	1254.5	997.5	769.0	551.5	350.5	168.9	0.0
32.5°	1302.9	1036.2	795.9	570.6	361.5	173.9	0.0
30°	1352.0	1072.4	821.1	588.4	371.7	178.6	0.0
27.5°	1397.7	1106.0	844.5	604.9	381.3	182.9	0.0
25°	1439.7	1136.9	866.0	620.1	390.0	186.9	0.0
22.5°	1478.0	1165.1	885.6	634.0	398.0	190.5	0.0
20°	1512.5	1190.5	903.3	646.4	405.1	193.8	0.0
17.5°	1543.2	1213.0	918.9	657.5	411.5	196.7	0.0
15°	1569.9	1232.6	932.5	667.1	417.0	199.2	0.0
12.5°	1592.6	1249.3	944.1	675.3	421.7	201.3	0.0
10°	1611.2	1263.0	953.6	682.0	425.6	203.1	0.0
7.5°	1625.7	1273.6	961.0	687.3	428.6	204.4	0.0
5°	1636.2	1281.3	966.3	691.0	430.8	205.4	0.0
2.5°	1642.4	1285.9	969.5	693.2	432.1	206.0	0.0
0°	1644.5	1287.4	970.6	694.0	432.5	206.2	0.0
-2.5°	1642.4	1285.9	969.5	693.2	432.1	206.0	0.0
-5°	1636.2	1281.3	966.3	691.0	430.8	205.4	0.0
-7.5°	1625.7	1273.6	961.0	687.3	428.6	204.4	0.0
-10°	1611.2	1263.0	953.6	682.0	425.6	203.1	0.0
-12.5°	1592.6	1249.3	944.1	675.3	421.7	201.3	0.0
-15°	1569.9	1232.6	932.5	667.1	417.0	199.2	0.0
-17.5°	1543.2	1213.0	918.9	657.5	411.5	196.7	0.0
-20°	1512.5	1190.5	903.3	646.4	405.1	193.8	0.0

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Scaled Data Report



REPORT NUMBER: P624775 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-06-E-PRO-4000K-77

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	1478.0	1165.1	885.6	634.0	398.0	190.5	0.0
-25°	1439.7	1136.9	866.0	620.1	390.0	186.9	0.0
-27.5°	1397.7	1106.0	844.5	604.9	381.3	182.9	0.0
-30°	1352.0	1072.4	821.1	588.4	371.7	178.6	0.0
-32.5°	1302.9	1036.2	795.9	570.6	361.5	173.9	0.0
-35°	1254.5	997.5	769.0	551.5	350.5	168.9	0.0
-37.5°	1204.9	958.1	740.3	531.2	338.8	163.6	0.0
-40°	1152.5	920.1	710.0	509.8	326.4	157.9	0.0
-42.5°	1097.4	880.1	678.9	487.1	313.4	152.0	0.0
-45°	1039.7	838.2	647.2	463.4	299.7	145.8	0.0
-47.5°	979.5	794.5	614.2	438.7	285.5	139.3	0.0
-50°	923.8	749.0	579.8	415.6	270.6	132.5	0.0
-52.5°	867.2	701.9	544.2	392.4	255.2	125.5	0.0
-55°	808.8	655.4	507.4	368.6	239.3	118.2	0.0
-57.5°	748.6	608.0	469.5	343.9	222.9	110.8	0.0
-60°	687.3	559.3	430.8	318.6	206.0	103.1	0.0
-62.5°	627.5	509.5	396.2	292.7	190.2	95.2	0.0
-65°	566.4	458.5	360.9	266.1	174.1	87.1	0.0
-67.5°	504.1	410.0	324.8	239.1	157.6	78.9	0.0
-70°	440.7	364.2	288.1	211.5	140.9	70.5	0.0
-72.5°	384.0	317.7	250.8	185.5	123.9	62.0	0.0
-75°	327.6	270.6	213.1	159.7	106.6	53.4	0.0
-77.5°	270.6	223.0	177.7	133.5	89.2	44.6	0.0
-80°	213.1	177.7	142.5	107.1	71.5	35.8	0.0
-82.5°	159.7	133.5	107.1	80.5	53.8	26.9	0.0
-85°	106.6	89.2	71.5	53.8	35.9	18.0	0.0
-87.5°	53.4	44.6	35.8	26.9	18.0	9.0	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)