

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: P624761 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-VN-04-E-PRO-5700K-77**

Issue Date: 11/8/2022



**Test Information**

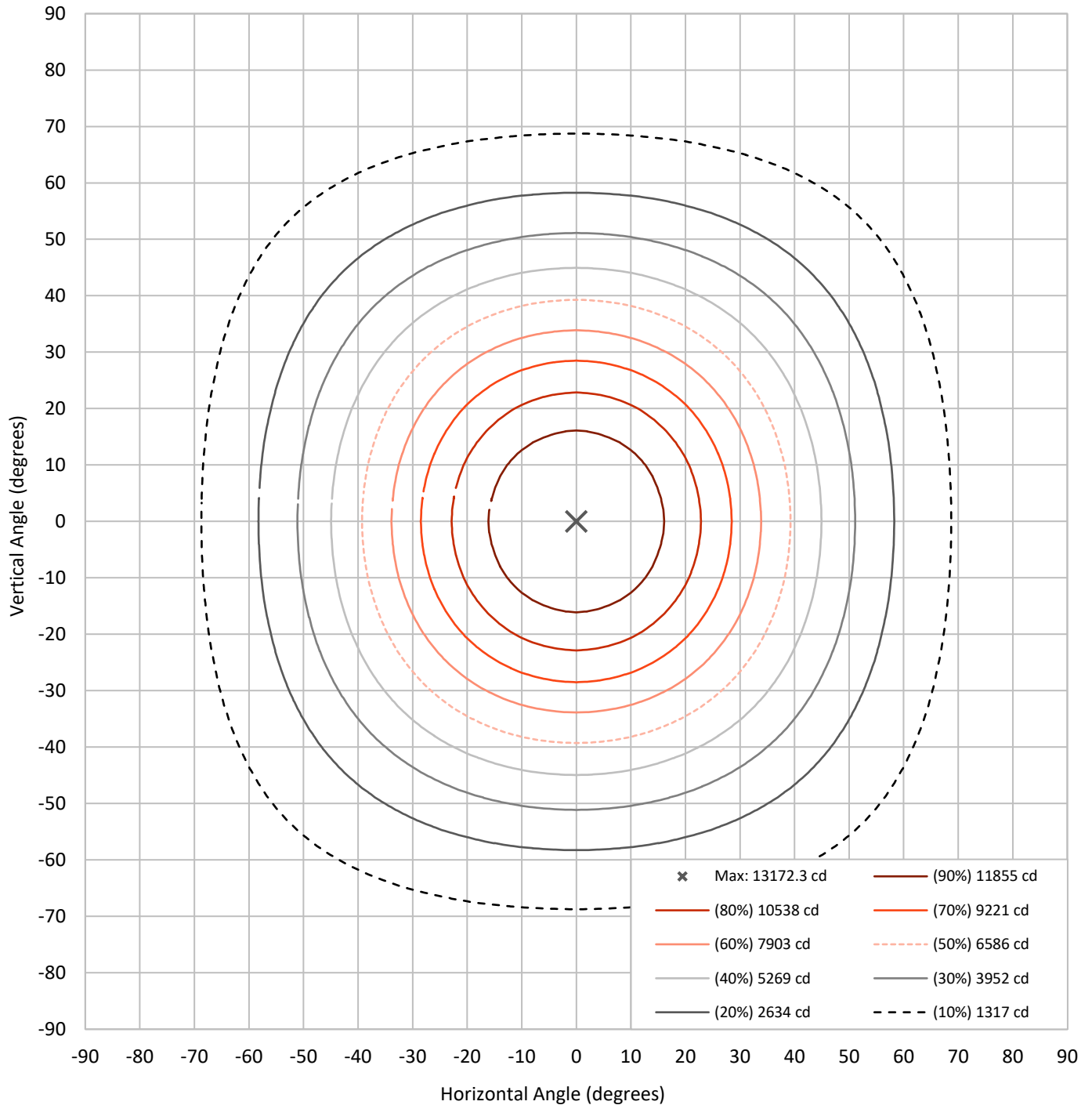
Test Method: LM-79-08  
Report Number: P624761 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-765-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/8/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-04-E-PRO-5700K-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:	23712.5 lumens	Max Intensity:	13172.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	125.5 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:	13681 lumens	Field Lumens:	22401.4 lumens
Beam Efficiency:	57.7%	Field Efficiency:	94.5%
Input Watts (W):	189		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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### Iso-Candela Plot





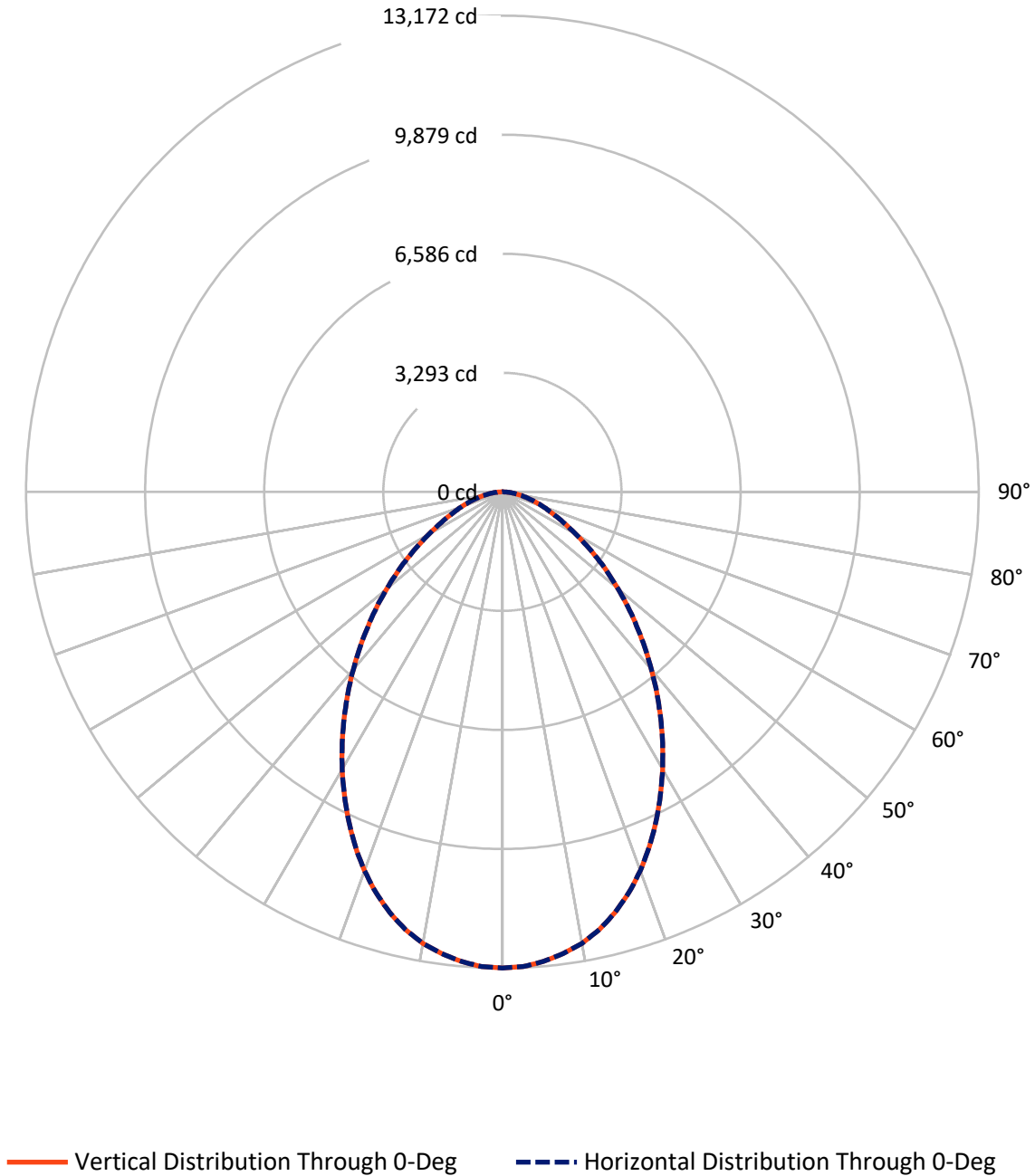
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### Lumen Table

90	2.0	13.9	34.5	54.6	62.8	54.6	34.5	13.9	2.0							
80	2.0	13.9	34.5	54.6	62.8	54.6	34.5	13.9	2.0							
70	6.3	6.5	13.0	21.5	30.8	40.0	47.5	51.7	51.7	47.5	40.0	30.8	21.5	13.0	6.5	6.3
60	6.3	9.7	20.1	34.3	52.1	71.3	87.5	96.6	96.6	87.5	71.3	52.1	34.3	20.1	9.7	6.3
50	10.5	13.0	27.9	51.2	82.0	114.6	141.9	157.7	157.7	141.9	114.6	82.0	51.2	27.9	13.0	10.5
40	10.5	16.1	36.8	71.0	115.6	163.2	204.2	228.1	228.1	204.2	163.2	115.6	71.0	36.8	16.1	10.5
30	13.8	19.0	45.5	89.8	147.8	211.3	266.9	299.7	299.7	266.9	211.3	147.8	89.8	45.5	19.0	13.8
20	13.8	21.2	52.5	104.5	173.6	250.6	318.8	358.2	358.2	318.8	250.6	173.6	104.5	52.5	21.2	13.8
10	15.0	22.3	56.3	112.6	188.1	273.0	347.5	388.7	388.7	347.5	273.0	188.1	112.6	56.3	22.3	15.0
0	15.0	22.3	56.3	112.6	188.1	273.0	347.5	388.7	388.7	347.5	273.0	188.1	112.6	56.3	22.3	15.0
-10	15.0	22.3	56.3	112.6	188.1	273.0	347.5	388.7	388.7	347.5	273.0	188.1	112.6	56.3	22.3	15.0
-20	13.8	21.2	52.5	104.5	173.6	250.6	318.8	358.2	358.2	318.8	250.6	173.6	104.5	52.5	21.2	13.8
-30	13.8	19.0	45.5	89.8	147.8	211.3	266.9	299.7	299.7	266.9	211.3	147.8	89.8	45.5	19.0	13.8
-40	10.5	16.1	36.8	71.0	115.6	163.2	204.2	228.1	228.1	204.2	163.2	115.6	71.0	36.8	16.1	10.5
-50	10.5	13.0	27.9	51.2	82.0	114.6	141.9	157.7	157.7	141.9	114.6	82.0	51.2	27.9	13.0	10.5
-60	6.3	9.7	20.1	34.3	52.1	71.3	87.5	96.6	96.6	87.5	71.3	52.1	34.3	20.1	9.7	6.3
-70	6.3	6.5	13.0	21.5	30.8	40.0	47.5	51.7	51.7	47.5	40.0	30.8	21.5	13.0	6.5	6.3
-80	2.0	13.9	34.5	54.6	62.8	54.6	34.5	13.9	2.0							
-90	2.0	13.9	34.5	54.6	62.8	54.6	34.5	13.9	2.0							

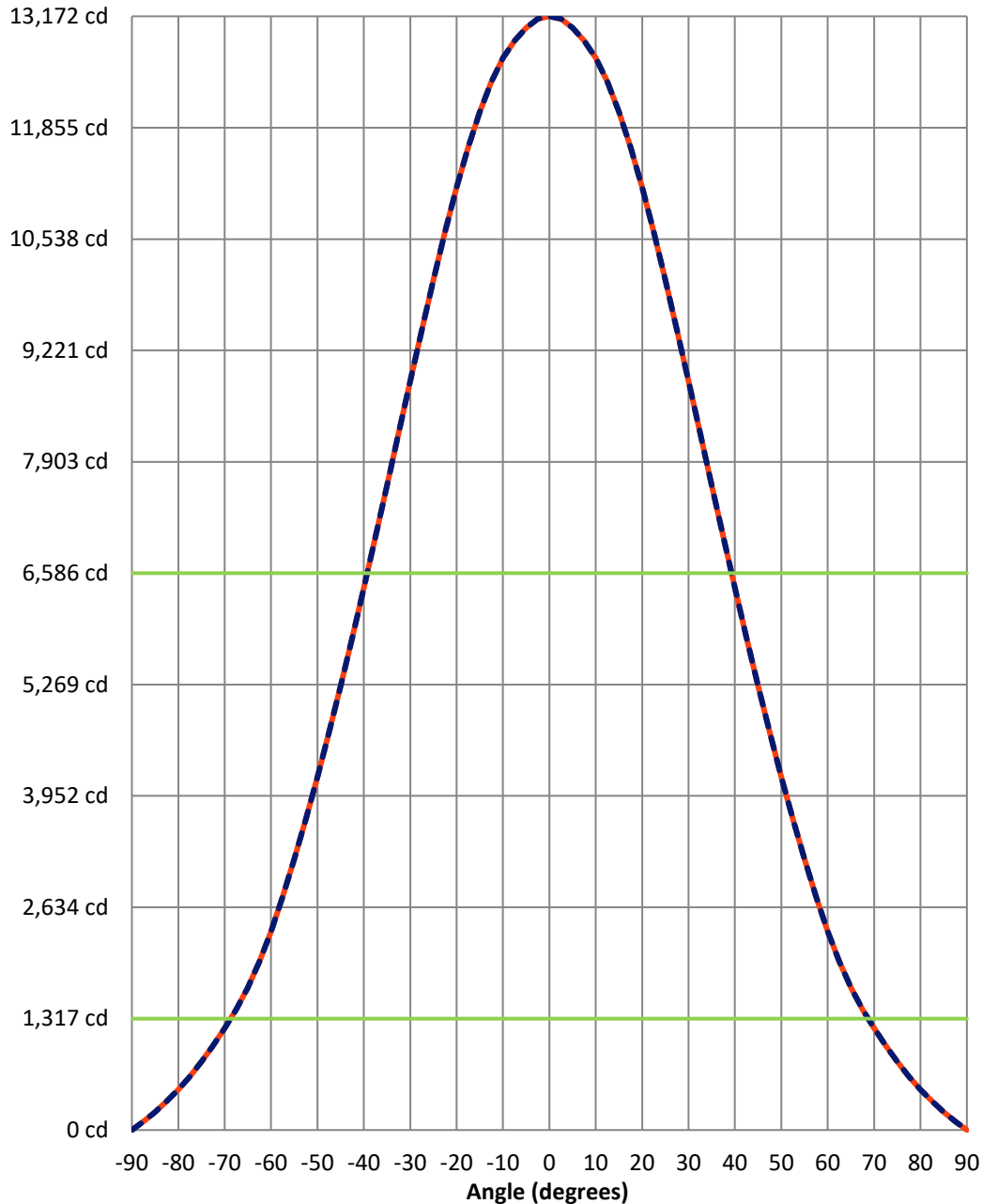
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
H Angle: 78.6°  
V Angle: 78.6°  
Lumens: 13681  
Efficiency: 57.7%

**Field:**  
H Angle: 137.5°  
V Angle: 137.5°  
Lumens: 22401.4  
Efficiency: 94.5%

**Spill:**  
Lumens: 1311.1  
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	4.4	8.8	13.2	17.6	21.9	26.2	30.5	34.7	38.8	42.8
85°	0.0	8.8	17.7	26.4	35.2	43.8	52.4	60.9	69.3	77.5	85.6
82.5°	0.0	13.2	26.4	39.6	52.7	65.7	78.5	91.2	104.0	117.6	130.9
80°	0.0	17.6	35.2	52.7	70.1	87.4	104.8	123.4	141.7	159.7	177.5
77.5°	0.0	21.9	43.8	65.7	87.4	109.6	133.1	156.2	179.1	201.6	225.5
75°	0.0	26.2	52.4	78.5	104.8	133.1	161.1	188.8	216.7	247.9	278.5
72.5°	0.0	30.5	60.9	91.2	123.4	156.2	188.8	222.4	259.1	295.3	331.0
70°	0.0	34.7	69.3	104.0	141.7	179.1	216.7	259.1	301.0	342.3	385.3
67.5°	0.0	38.8	77.5	117.6	159.7	201.6	247.9	295.3	342.3	391.3	439.5
65°	0.0	42.8	85.6	130.9	177.5	225.5	278.5	331.0	385.3	439.5	495.2
62.5°	0.0	46.8	93.5	143.9	194.8	250.5	308.5	367.4	427.5	488.3	555.3
60°	0.0	50.7	101.3	156.7	211.9	275.0	337.9	403.6	468.9	541.5	614.2
57.5°	0.0	54.5	109.6	169.1	230.9	299.0	368.1	439.0	513.9	593.5	676.9
55°	0.0	58.1	117.7	181.2	249.5	322.3	397.6	473.5	559.0	645.6	740.4
52.5°	0.0	61.7	125.5	193.0	267.6	345.1	426.3	511.3	602.9	701.2	802.2
50°	0.0	65.2	133.1	204.4	285.1	368.2	454.2	548.5	647.0	755.2	866.7
47.5°	0.0	68.5	140.4	215.7	302.0	390.6	481.6	584.5	693.4	807.4	929.7
45°	0.0	71.7	147.4	227.9	318.2	412.1	511.2	619.1	738.0	861.9	990.4
42.5°	0.0	74.7	154.1	239.5	333.8	432.7	539.6	654.7	780.9	914.3	1052.8
40°	0.0	77.7	160.5	250.7	349.0	452.4	566.7	690.5	823.0	964.5	1113.1
37.5°	0.0	80.4	166.6	261.2	364.0	471.1	592.4	724.4	865.3	1013.3	1170.5
35°	0.0	83.1	172.4	271.2	378.1	490.4	616.8	756.6	905.3	1062.1	1226.8
32.5°	0.0	85.5	177.8	280.6	391.3	509.5	640.6	786.9	943.1	1108.1	1282.7
30°	0.0	87.8	182.8	289.3	403.7	527.3	664.8	815.8	978.4	1151.2	1335.0
27.5°	0.0	89.9	187.5	297.4	415.2	543.8	687.2	844.4	1012.2	1191.3	1383.7
25°	0.0	91.9	191.8	304.9	425.8	559.0	707.9	870.7	1044.8	1230.3	1429.0
22.5°	0.0	93.7	195.7	311.7	435.4	572.9	726.7	894.7	1074.5	1267.0	1476.9
20°	0.0	95.3	199.2	317.8	444.1	585.3	743.7	916.3	1101.4	1300.0	1520.1
17.5°	0.0	96.7	202.4	323.3	451.8	596.4	758.8	935.5	1125.2	1329.4	1558.6
15°	0.0	97.9	205.1	328.0	458.5	606.0	771.9	952.2	1146.0	1355.0	1592.2
12.5°	0.0	99.0	207.4	332.0	464.2	614.2	783.1	966.4	1163.7	1376.8	1620.8
10°	0.0	99.9	209.3	335.3	468.9	621.0	792.2	978.1	1178.2	1394.7	1644.3
7.5°	0.0	100.5	210.8	337.9	472.5	626.2	799.4	987.2	1189.6	1408.7	1662.7
5°	0.0	101.0	211.9	339.7	475.1	630.0	804.5	993.8	1197.7	1418.8	1675.8
2.5°	0.0	101.3	212.5	340.8	476.7	632.2	807.6	997.7	1202.6	1424.8	1683.8
0°	0.0	101.4	212.7	341.2	477.2	633.0	808.6	999.0	1204.2	1426.8	1686.4
-2.5°	0.0	101.3	212.5	340.8	476.7	632.2	807.6	997.7	1202.6	1424.8	1683.8
-5°	0.0	101.0	211.9	339.7	475.1	630.0	804.5	993.8	1197.7	1418.8	1675.8
-7.5°	0.0	100.5	210.8	337.9	472.5	626.2	799.4	987.2	1189.6	1408.7	1662.7
-10°	0.0	99.9	209.3	335.3	468.9	621.0	792.2	978.1	1178.2	1394.7	1644.3
-12.5°	0.0	99.0	207.4	332.0	464.2	614.2	783.1	966.4	1163.7	1376.8	1620.8
-15°	0.0	97.9	205.1	328.0	458.5	606.0	771.9	952.2	1146.0	1355.0	1592.2
-17.5°	0.0	96.7	202.4	323.3	451.8	596.4	758.8	935.5	1125.2	1329.4	1558.6
-20°	0.0	95.3	199.2	317.8	444.1	585.3	743.7	916.3	1101.4	1300.0	1520.1

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**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	93.7	195.7	311.7	435.4	572.9	726.7	894.7	1074.5	1267.0	1476.9
-25°	0.0	91.9	191.8	304.9	425.8	559.0	707.9	870.7	1044.8	1230.3	1429.0
-27.5°	0.0	89.9	187.5	297.4	415.2	543.8	687.2	844.4	1012.2	1191.3	1383.7
-30°	0.0	87.8	182.8	289.3	403.7	527.3	664.8	815.8	978.4	1151.2	1335.0
-32.5°	0.0	85.5	177.8	280.6	391.3	509.5	640.6	786.9	943.1	1108.1	1282.7
-35°	0.0	83.1	172.4	271.2	378.1	490.4	616.8	756.6	905.3	1062.1	1226.8
-37.5°	0.0	80.4	166.6	261.2	364.0	471.1	592.4	724.4	865.3	1013.3	1170.5
-40°	0.0	77.7	160.5	250.7	349.0	452.4	566.7	690.5	823.0	964.5	1113.1
-42.5°	0.0	74.7	154.1	239.5	333.8	432.7	539.6	654.7	780.9	914.3	1052.8
-45°	0.0	71.7	147.4	227.9	318.2	412.1	511.2	619.1	738.0	861.9	990.4
-47.5°	0.0	68.5	140.4	215.7	302.0	390.6	481.6	584.5	693.4	807.4	929.7
-50°	0.0	65.2	133.1	204.4	285.1	368.2	454.2	548.5	647.0	755.2	866.7
-52.5°	0.0	61.7	125.5	193.0	267.6	345.1	426.3	511.3	602.9	701.2	802.2
-55°	0.0	58.1	117.7	181.2	249.5	322.3	397.6	473.5	559.0	645.6	740.4
-57.5°	0.0	54.5	109.6	169.1	230.9	299.0	368.1	439.0	513.9	593.5	676.9
-60°	0.0	50.7	101.3	156.7	211.9	275.0	337.9	403.6	468.9	541.5	614.2
-62.5°	0.0	46.8	93.5	143.9	194.8	250.5	308.5	367.4	427.5	488.3	555.3
-65°	0.0	42.8	85.6	130.9	177.5	225.5	278.5	331.0	385.3	439.5	495.2
-67.5°	0.0	38.8	77.5	117.6	159.7	201.6	247.9	295.3	342.3	391.3	439.5
-70°	0.0	34.7	69.3	104.0	141.7	179.1	216.7	259.1	301.0	342.3	385.3
-72.5°	0.0	30.5	60.9	91.2	123.4	156.2	188.8	222.4	259.1	295.3	331.0
-75°	0.0	26.2	52.4	78.5	104.8	133.1	161.1	188.8	216.7	247.9	278.5
-77.5°	0.0	21.9	43.8	65.7	87.4	109.6	133.1	156.2	179.1	201.6	225.5
-80°	0.0	17.6	35.2	52.7	70.1	87.4	104.8	123.4	141.7	159.7	177.5
-82.5°	0.0	13.2	26.4	39.6	52.7	65.7	78.5	91.2	104.0	117.6	130.9
-85°	0.0	8.8	17.7	26.4	35.2	43.8	52.4	60.9	69.3	77.5	85.6
-87.5°	0.0	4.4	8.8	13.2	17.6	21.9	26.2	30.5	34.7	38.8	42.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	46.8	50.7	54.5	58.1	61.7	65.2	68.5	71.7	74.7	77.7	80.4
85°	93.5	101.3	109.6	117.7	125.5	133.1	140.4	147.4	154.1	160.5	166.6
82.5°	143.9	156.7	169.1	181.2	193.0	204.4	215.7	227.9	239.5	250.7	261.2
80°	194.8	211.9	230.9	249.5	267.6	285.1	302.0	318.2	333.8	349.0	364.0
77.5°	250.5	275.0	299.0	322.3	345.1	368.2	390.6	412.1	432.7	452.4	471.1
75°	308.5	337.9	368.1	397.6	426.3	454.2	481.6	511.2	539.6	566.7	592.4
72.5°	367.4	403.6	439.0	473.5	511.3	548.5	584.5	619.1	654.7	690.5	724.4
70°	427.5	468.9	513.9	559.0	602.9	647.0	693.4	738.0	780.9	823.0	865.3
67.5°	488.3	541.5	593.5	645.6	701.2	755.2	807.4	861.9	914.3	964.5	1013.3
65°	555.3	614.2	676.9	740.4	802.2	866.7	929.7	990.4	1052.8	1113.1	1170.5
62.5°	621.2	692.6	764.0	835.9	909.6	981.2	1054.6	1126.8	1196.3	1267.9	1336.8
60°	692.6	771.9	853.1	935.5	1017.1	1101.4	1183.1	1267.0	1349.5	1429.0	1517.2
57.5°	764.0	853.1	944.1	1035.9	1129.7	1222.4	1318.5	1411.6	1513.7	1614.2	1714.7
55°	835.9	935.5	1035.9	1139.1	1243.1	1349.8	1457.9	1575.0	1688.5	1817.0	1940.0
52.5°	909.6	1017.1	1129.7	1243.1	1360.2	1482.4	1612.1	1747.3	1891.0	2035.3	2189.4
50°	981.2	1101.4	1222.4	1349.8	1482.4	1624.6	1776.9	1935.9	2105.3	2277.7	2457.6
47.5°	1054.6	1183.1	1318.5	1457.9	1612.1	1776.9	1950.9	2140.6	2331.2	2540.7	2744.9
45°	1126.8	1267.0	1411.6	1575.0	1747.3	1935.9	2140.6	2349.1	2582.6	2812.6	3048.7
42.5°	1196.3	1349.5	1513.7	1688.5	1891.0	2105.3	2331.2	2582.6	2835.7	3095.7	3355.4
40°	1267.9	1429.0	1614.2	1817.0	2035.3	2277.7	2540.7	2812.6	3095.7	3380.8	3663.1
37.5°	1336.8	1517.2	1714.7	1940.0	2189.4	2457.6	2744.9	3048.7	3355.4	3663.1	3976.5
35°	1402.3	1601.1	1822.8	2067.7	2336.6	2640.1	2955.7	3279.6	3611.4	3948.6	4287.2
32.5°	1470.3	1680.3	1925.1	2196.8	2495.6	2818.0	3157.6	3508.9	3865.6	4226.4	4598.9
30°	1538.0	1767.2	2025.8	2318.3	2647.4	2995.7	3357.4	3728.9	4110.4	4505.9	4901.9
27.5°	1601.1	1849.2	2130.2	2444.6	2792.0	3162.2	3547.9	3944.3	4353.0	4772.0	5192.1
25°	1659.3	1925.1	2226.7	2566.1	2935.0	3323.9	3727.8	4145.3	4584.0	5026.8	5473.6
22.5°	1717.3	1994.8	2315.2	2677.5	3066.4	3475.1	3899.8	4341.9	4800.5	5263.6	5737.9
20°	1774.1	2067.7	2402.4	2780.0	3185.7	3612.5	4056.4	4523.0	5001.4	5489.1	5986.9
17.5°	1824.7	2132.7	2484.7	2877.7	3297.6	3738.5	4198.4	4685.6	5182.3	5692.5	6215.2
15°	1868.9	2189.4	2556.8	2963.3	3396.7	3852.1	4330.4	4832.3	5345.5	5874.3	6417.7
12.5°	1906.6	2237.8	2618.2	3036.4	3481.5	3949.3	4443.5	4958.6	5488.2	6035.4	6596.2
10°	1937.5	2277.7	2668.8	3096.6	3551.4	4029.6	4537.1	5063.2	5606.6	6169.1	6744.8
7.5°	1961.7	2308.8	2708.4	3143.7	3606.1	4092.5	4610.4	5145.4	5699.7	6274.5	6862.1
5°	1979.1	2331.2	2736.8	3177.5	3645.4	4137.7	4663.2	5204.5	5766.8	6350.5	6946.8
2.5°	1989.5	2344.6	2753.9	3197.9	3669.1	4164.9	4695.0	5240.2	5807.3	6396.4	6998.1
0°	1993.0	2349.1	2759.6	3204.7	3677.0	4174.0	4705.6	5252.1	5820.8	6411.8	7015.2
-2.5°	1989.5	2344.6	2753.9	3197.9	3669.1	4164.9	4695.0	5240.2	5807.3	6396.4	6998.1
-5°	1979.1	2331.2	2736.8	3177.5	3645.4	4137.7	4663.2	5204.5	5766.8	6350.5	6946.8
-7.5°	1961.7	2308.8	2708.4	3143.7	3606.1	4092.5	4610.4	5145.4	5699.7	6274.5	6862.1
-10°	1937.5	2277.7	2668.8	3096.6	3551.4	4029.6	4537.1	5063.2	5606.6	6169.1	6744.8
-12.5°	1906.6	2237.8	2618.2	3036.4	3481.5	3949.3	4443.5	4958.6	5488.2	6035.4	6596.2
-15°	1868.9	2189.4	2556.8	2963.3	3396.7	3852.1	4330.4	4832.3	5345.5	5874.3	6417.7
-17.5°	1824.7	2132.7	2484.7	2877.7	3297.6	3738.5	4198.4	4685.6	5182.3	5692.5	6215.2
-20°	1774.1	2067.7	2402.4	2780.0	3185.7	3612.5	4056.4	4523.0	5001.4	5489.1	5986.9

Classified

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

Scaled Data Report



REPORT NUMBER: P624761 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-5700K-77

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1717.3	1994.8	2315.2	2677.5	3066.4	3475.1	3899.8	4341.9	4800.5	5263.6	5737.9
-25°	1659.3	1925.1	2226.7	2566.1	2935.0	3323.9	3727.8	4145.3	4584.0	5026.8	5473.6
-27.5°	1601.1	1849.2	2130.2	2444.6	2792.0	3162.2	3547.9	3944.3	4353.0	4772.0	5192.1
-30°	1538.0	1767.2	2025.8	2318.3	2647.4	2995.7	3357.4	3728.9	4110.4	4505.9	4901.9
-32.5°	1470.3	1680.3	1925.1	2196.8	2495.6	2818.0	3157.6	3508.9	3865.6	4226.4	4598.9
-35°	1402.3	1601.1	1822.8	2067.7	2336.6	2640.1	2955.7	3279.6	3611.4	3948.6	4287.2
-37.5°	1336.8	1517.2	1714.7	1940.0	2189.4	2457.6	2744.9	3048.7	3355.4	3663.1	3976.5
-40°	1267.9	1429.0	1614.2	1817.0	2035.3	2277.7	2540.7	2812.6	3095.7	3380.8	3663.1
-42.5°	1196.3	1349.5	1513.7	1688.5	1891.0	2105.3	2331.2	2582.6	2835.7	3095.7	3355.4
-45°	1126.8	1267.0	1411.6	1575.0	1747.3	1935.9	2140.6	2349.1	2582.6	2812.6	3048.7
-47.5°	1054.6	1183.1	1318.5	1457.9	1612.1	1776.9	1950.9	2140.6	2331.2	2540.7	2744.9
-50°	981.2	1101.4	1222.4	1349.8	1482.4	1624.6	1776.9	1935.9	2105.3	2277.7	2457.6
-52.5°	909.6	1017.1	1129.7	1243.1	1360.2	1482.4	1612.1	1747.3	1891.0	2035.3	2189.4
-55°	835.9	935.5	1035.9	1139.1	1243.1	1349.8	1457.9	1575.0	1688.5	1817.0	1940.0
-57.5°	764.0	853.1	944.1	1035.9	1129.7	1222.4	1318.5	1411.6	1513.7	1614.2	1714.7
-60°	692.6	771.9	853.1	935.5	1017.1	1101.4	1183.1	1267.0	1349.5	1429.0	1517.2
-62.5°	621.2	692.6	764.0	835.9	909.6	981.2	1054.6	1126.8	1196.3	1267.9	1336.8
-65°	555.3	614.2	676.9	740.4	802.2	866.7	929.7	990.4	1052.8	1113.1	1170.5
-67.5°	488.3	541.5	593.5	645.6	701.2	755.2	807.4	861.9	914.3	964.5	1013.3
-70°	427.5	468.9	513.9	559.0	602.9	647.0	693.4	738.0	780.9	823.0	865.3
-72.5°	367.4	403.6	439.0	473.5	511.3	548.5	584.5	619.1	654.7	690.5	724.4
-75°	308.5	337.9	368.1	397.6	426.3	454.2	481.6	511.2	539.6	566.7	592.4
-77.5°	250.5	275.0	299.0	322.3	345.1	368.2	390.6	412.1	432.7	452.4	471.1
-80°	194.8	211.9	230.9	249.5	267.6	285.1	302.0	318.2	333.8	349.0	364.0
-82.5°	143.9	156.7	169.1	181.2	193.0	204.4	215.7	227.9	239.5	250.7	261.2
-85°	93.5	101.3	109.6	117.7	125.5	133.1	140.4	147.4	154.1	160.5	166.6
-87.5°	46.8	50.7	54.5	58.1	61.7	65.2	68.5	71.7	74.7	77.7	80.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P624761 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-VN-04-E-PRO-5700K-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°	83.1	85.5	87.8	89.9	91.9	93.7	95.3	96.7	97.9	99.0	99.9
85°	172.4	177.8	182.8	187.5	191.8	195.7	199.2	202.4	205.1	207.4	209.3
82.5°	271.2	280.6	289.3	297.4	304.9	311.7	317.8	323.3	328.0	332.0	335.3
80°	378.1	391.3	403.7	415.2	425.8	435.4	444.1	451.8	458.5	464.2	468.9
77.5°	490.4	509.5	527.3	543.8	559.0	572.9	585.3	596.4	606.0	614.2	621.0
75°	616.8	640.6	664.8	687.2	707.9	726.7	743.7	758.8	771.9	783.1	792.2
72.5°	756.6	786.9	815.8	844.4	870.7	894.7	916.3	935.5	952.2	966.4	978.1
70°	905.3	943.1	978.4	1012.2	1044.8	1074.5	1101.4	1125.2	1146.0	1163.7	1178.2
67.5°	1062.1	1108.1	1151.2	1191.3	1230.3	1267.0	1300.0	1329.4	1355.0	1376.8	1394.7
65°	1226.8	1282.7	1335.0	1383.7	1429.0	1476.9	1520.1	1558.6	1592.2	1620.8	1644.3
62.5°	1402.3	1470.3	1538.0	1601.1	1659.3	1717.3	1774.1	1824.7	1868.9	1906.6	1937.5
60°	1601.1	1680.3	1767.2	1849.2	1925.1	1994.8	2067.7	2132.7	2189.4	2237.8	2277.7
57.5°	1822.8	1925.1	2025.8	2130.2	2226.7	2315.2	2402.4	2484.7	2556.8	2618.2	2668.8
55°	2067.7	2196.8	2318.3	2444.6	2566.1	2677.5	2780.0	2877.7	2963.3	3036.4	3096.6
52.5°	2336.6	2495.6	2647.4	2792.0	2935.0	3066.4	3185.7	3297.6	3396.7	3481.5	3551.4
50°	2640.1	2818.0	2995.7	3162.2	3323.9	3475.1	3612.5	3738.5	3852.1	3949.3	4029.6
47.5°	2955.7	3157.6	3357.4	3547.9	3727.8	3899.8	4056.4	4198.4	4330.4	4443.5	4537.1
45°	3279.6	3508.9	3728.9	3944.3	4145.3	4341.9	4523.0	4685.6	4832.3	4958.6	5063.2
42.5°	3611.4	3865.6	4110.4	4353.0	4584.0	4800.5	5001.4	5182.3	5345.5	5488.2	5606.6
40°	3948.6	4226.4	4505.9	4772.0	5026.8	5263.6	5489.1	5692.5	5874.3	6035.4	6169.1
37.5°	4287.2	4598.9	4901.9	5192.1	5473.6	5737.9	5986.9	6215.2	6417.7	6596.2	6744.8
35°	4630.1	4967.6	5294.6	5616.5	5924.0	6218.6	6491.8	6743.5	6967.3	7162.4	7325.5
32.5°	4967.6	5329.8	5688.8	6039.7	6376.6	6698.2	6996.5	7270.2	7514.8	7729.4	7911.0
30°	5294.6	5688.8	6078.6	6457.7	6824.5	7170.9	7494.2	7793.4	8063.9	8299.4	8495.6
27.5°	5616.5	6039.7	6457.7	6867.1	7259.6	7631.9	7986.4	8311.5	8601.7	8856.3	9067.9
25°	5924.0	6376.6	6824.5	7259.6	7679.2	8084.8	8462.8	8810.7	9121.8	9395.5	9625.5
22.5°	6218.6	6698.2	7170.9	7631.9	8084.8	8514.0	8916.7	9286.4	9621.2	9916.4	10164.2
20°	6491.8	6996.5	7494.2	7986.4	8462.8	8916.7	9342.2	9736.8	10096.5	10407.1	10671.6
17.5°	6743.5	7270.2	7793.4	8311.5	8810.7	9286.4	9736.8	10155.8	10533.1	10856.4	11133.2
15°	6967.3	7514.8	8063.9	8601.7	9121.8	9621.2	10096.5	10533.1	10919.8	11257.2	11536.3
12.5°	7162.4	7729.4	8299.4	8856.3	9395.5	9916.4	10407.1	10856.4	11257.2	11604.1	11882.1
10°	7325.5	7911.0	8495.6	9067.9	9625.5	10164.2	10671.6	11133.2	11536.3	11882.1	12169.5
7.5°	7454.6	8055.1	8651.7	9236.9	9809.4	10360.1	10874.5	11340.8	11752.8	12106.8	12400.9
5°	7548.0	8159.5	8765.3	9360.3	9944.2	10504.5	11025.2	11495.5	11909.6	12263.2	12548.4
2.5°	7604.6	8222.9	8834.3	9435.5	10026.5	10593.0	11118.1	11591.7	12008.4	12363.6	12645.8
0°	7623.5	8244.1	8857.4	9460.7	10054.2	10622.9	11149.6	11624.4	12042.2	12398.3	12680.2
-2.5°	7604.6	8222.9	8834.3	9435.5	10026.5	10593.0	11118.1	11591.7	12008.4	12363.6	12645.8
-5°	7548.0	8159.5	8765.3	9360.3	9944.2	10504.5	11025.2	11495.5	11909.6	12263.2	12548.4
-7.5°	7454.6	8055.1	8651.7	9236.9	9809.4	10360.1	10874.5	11340.8	11752.8	12106.8	12400.9
-10°	7325.5	7911.0	8495.6	9067.9	9625.5	10164.2	10671.6	11133.2	11536.3	11882.1	12169.5
-12.5°	7162.4	7729.4	8299.4	8856.3	9395.5	9916.4	10407.1	10856.4	11257.2	11604.1	11882.1
-15°	6967.3	7514.8	8063.9	8601.7	9121.8	9621.2	10096.5	10533.1	10919.8	11257.2	11536.3
-17.5°	6743.5	7270.2	7793.4	8311.5	8810.7	9286.4	9736.8	10155.8	10533.1	10856.4	11133.2
-20°	6491.8	6996.5	7494.2	7986.4	8462.8	8916.7	9342.2	9736.8	10096.5	10407.1	10671.6



REPORT NUMBER: P624761 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-VN-04-E-PRO-5700K-77

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	6218.6	6698.2	7170.9	7631.9	8084.8	8514.0	8916.7	9286.4	9621.2	9916.4	10164.2
-25°	5924.0	6376.6	6824.5	7259.6	7679.2	8084.8	8462.8	8810.7	9121.8	9395.5	9625.5
-27.5°	5616.5	6039.7	6457.7	6867.1	7259.6	7631.9	7986.4	8311.5	8601.7	8856.3	9067.9
-30°	5294.6	5688.8	6078.6	6457.7	6824.5	7170.9	7494.2	7793.4	8063.9	8299.4	8495.6
-32.5°	4967.6	5329.8	5688.8	6039.7	6376.6	6698.2	6996.5	7270.2	7514.8	7729.4	7911.0
-35°	4630.1	4967.6	5294.6	5616.5	5924.0	6218.6	6491.8	6743.5	6967.3	7162.4	7325.5
-37.5°	4287.2	4598.9	4901.9	5192.1	5473.6	5737.9	5986.9	6215.2	6417.7	6596.2	6744.8
-40°	3948.6	4226.4	4505.9	4772.0	5026.8	5263.6	5489.1	5692.5	5874.3	6035.4	6169.1
-42.5°	3611.4	3865.6	4110.4	4353.0	4584.0	4800.5	5001.4	5182.3	5345.5	5488.2	5606.6
-45°	3279.6	3508.9	3728.9	3944.3	4145.3	4341.9	4523.0	4685.6	4832.3	4958.6	5063.2
-47.5°	2955.7	3157.6	3357.4	3547.9	3727.8	3899.8	4056.4	4198.4	4330.4	4443.5	4537.1
-50°	2640.1	2818.0	2995.7	3162.2	3323.9	3475.1	3612.5	3738.5	3852.1	3949.3	4029.6
-52.5°	2336.6	2495.6	2647.4	2792.0	2935.0	3066.4	3185.7	3297.6	3396.7	3481.5	3551.4
-55°	2067.7	2196.8	2318.3	2444.6	2566.1	2677.5	2780.0	2877.7	2963.3	3036.4	3096.6
-57.5°	1822.8	1925.1	2025.8	2130.2	2226.7	2315.2	2402.4	2484.7	2556.8	2618.2	2668.8
-60°	1601.1	1680.3	1767.2	1849.2	1925.1	1994.8	2067.7	2132.7	2189.4	2237.8	2277.7
-62.5°	1402.3	1470.3	1538.0	1601.1	1659.3	1717.3	1774.1	1824.7	1868.9	1906.6	1937.5
-65°	1226.8	1282.7	1335.0	1383.7	1429.0	1476.9	1520.1	1558.6	1592.2	1620.8	1644.3
-67.5°	1062.1	1108.1	1151.2	1191.3	1230.3	1267.0	1300.0	1329.4	1355.0	1376.8	1394.7
-70°	905.3	943.1	978.4	1012.2	1044.8	1074.5	1101.4	1125.2	1146.0	1163.7	1178.2
-72.5°	756.6	786.9	815.8	844.4	870.7	894.7	916.3	935.5	952.2	966.4	978.1
-75°	616.8	640.6	664.8	687.2	707.9	726.7	743.7	758.8	771.9	783.1	792.2
-77.5°	490.4	509.5	527.3	543.8	559.0	572.9	585.3	596.4	606.0	614.2	621.0
-80°	378.1	391.3	403.7	415.2	425.8	435.4	444.1	451.8	458.5	464.2	468.9
-82.5°	271.2	280.6	289.3	297.4	304.9	311.7	317.8	323.3	328.0	332.0	335.3
-85°	172.4	177.8	182.8	187.5	191.8	195.7	199.2	202.4	205.1	207.4	209.3
-87.5°	83.1	85.5	87.8	89.9	91.9	93.7	95.3	96.7	97.9	99.0	99.9
-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: P624761 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-5700K-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°	100.5	101.0	101.3	101.4	101.3	101.0	100.5	99.9	99.0	97.9	96.7
85°	210.8	211.9	212.5	212.7	212.5	211.9	210.8	209.3	207.4	205.1	202.4
82.5°	337.9	339.7	340.8	341.2	340.8	339.7	337.9	335.3	332.0	328.0	323.3
80°	472.5	475.1	476.7	477.2	476.7	475.1	472.5	468.9	464.2	458.5	451.8
77.5°	626.2	630.0	632.2	633.0	632.2	630.0	626.2	621.0	614.2	606.0	596.4
75°	799.4	804.5	807.6	808.6	807.6	804.5	799.4	792.2	783.1	771.9	758.8
72.5°	987.2	993.8	997.7	999.0	997.7	993.8	987.2	978.1	966.4	952.2	935.5
70°	1189.6	1197.7	1202.6	1204.2	1202.6	1197.7	1189.6	1178.2	1163.7	1146.0	1125.2
67.5°	1408.7	1418.8	1424.8	1426.8	1424.8	1418.8	1408.7	1394.7	1376.8	1355.0	1329.4
65°	1662.7	1675.8	1683.8	1686.4	1683.8	1675.8	1662.7	1644.3	1620.8	1592.2	1558.6
62.5°	1961.7	1979.1	1989.5	1993.0	1989.5	1979.1	1961.7	1937.5	1906.6	1868.9	1824.7
60°	2308.8	2331.2	2344.6	2349.1	2344.6	2331.2	2308.8	2277.7	2237.8	2189.4	2132.7
57.5°	2708.4	2736.8	2753.9	2759.6	2753.9	2736.8	2708.4	2668.8	2618.2	2556.8	2484.7
55°	3143.7	3177.5	3197.9	3204.7	3197.9	3177.5	3143.7	3096.6	3036.4	2963.3	2877.7
52.5°	3606.1	3645.4	3669.1	3677.0	3669.1	3645.4	3606.1	3551.4	3481.5	3396.7	3297.6
50°	4092.5	4137.7	4164.9	4174.0	4164.9	4137.7	4092.5	4029.6	3949.3	3852.1	3738.5
47.5°	4610.4	4663.2	4695.0	4705.6	4695.0	4663.2	4610.4	4537.1	4443.5	4330.4	4198.4
45°	5145.4	5204.5	5240.2	5252.1	5240.2	5204.5	5145.4	5063.2	4958.6	4832.3	4685.6
42.5°	5699.7	5766.8	5807.3	5820.8	5807.3	5766.8	5699.7	5606.6	5488.2	5345.5	5182.3
40°	6274.5	6350.5	6396.4	6411.8	6396.4	6350.5	6274.5	6169.1	6035.4	5874.3	5692.5
37.5°	6862.1	6946.8	6998.1	7015.2	6998.1	6946.8	6862.1	6744.8	6596.2	6417.7	6215.2
35°	7454.6	7548.0	7604.6	7623.5	7604.6	7548.0	7454.6	7325.5	7162.4	6967.3	6743.5
32.5°	8055.1	8159.5	8222.9	8244.1	8222.9	8159.5	8055.1	7911.0	7729.4	7514.8	7270.2
30°	8651.7	8765.3	8834.3	8857.4	8834.3	8765.3	8651.7	8495.6	8299.4	8063.9	7793.4
27.5°	9236.9	9360.3	9435.5	9460.7	9435.5	9360.3	9236.9	9067.9	8856.3	8601.7	8311.5
25°	9809.4	9944.2	10026.5	10054.2	10026.5	9944.2	9809.4	9625.5	9395.5	9121.8	8810.7
22.5°	10360.1	10504.5	10593.0	10622.9	10593.0	10504.5	10360.1	10164.2	9916.4	9621.2	9286.4
20°	10874.5	11025.2	11118.1	11149.6	11118.1	11025.2	10874.5	10671.6	10407.1	10096.5	9736.8
17.5°	11340.8	11495.5	11591.7	11624.4	11591.7	11495.5	11340.8	11133.2	10856.4	10533.1	10155.8
15°	11752.8	11909.6	12008.4	12042.2	12008.4	11909.6	11752.8	11536.3	11257.2	10919.8	10533.1
12.5°	12106.8	12263.2	12363.6	12398.3	12363.6	12263.2	12106.8	11882.1	11604.1	11257.2	10856.4
10°	12400.9	12548.4	12645.8	12680.2	12645.8	12548.4	12400.9	12169.5	11882.1	11536.3	11133.2
7.5°	12613.5	12760.8	12850.3	12883.0	12850.3	12760.8	12613.5	12400.9	12106.8	11752.8	11340.8
5°	12760.8	12909.6	13000.2	13036.3	13000.2	12909.6	12760.8	12548.4	12263.2	11909.6	11495.5
2.5°	12850.3	13000.2	13098.6	13142.6	13098.6	13000.2	12850.3	12645.8	12363.6	12008.4	11591.7
0°	12883.0	13036.3	13142.6	13172.3	13142.6	13036.3	12883.0	12680.2	12398.3	12042.2	11624.4
-2.5°	12850.3	13000.2	13098.6	13142.6	13098.6	13000.2	12850.3	12645.8	12363.6	12008.4	11591.7
-5°	12760.8	12909.6	13000.2	13036.3	13000.2	12909.6	12760.8	12548.4	12263.2	11909.6	11495.5
-7.5°	12613.5	12760.8	12850.3	12883.0	12850.3	12760.8	12613.5	12400.9	12106.8	11752.8	11340.8
-10°	12400.9	12548.4	12645.8	12680.2	12645.8	12548.4	12400.9	12169.5	11882.1	11536.3	11133.2
-12.5°	12106.8	12263.2	12363.6	12398.3	12363.6	12263.2	12106.8	11882.1	11604.1	11257.2	10856.4
-15°	11752.8	11909.6	12008.4	12042.2	12008.4	11909.6	11752.8	11536.3	11257.2	10919.8	10533.1
-17.5°	11340.8	11495.5	11591.7	11624.4	11591.7	11495.5	11340.8	11133.2	10856.4	10533.1	10155.8
-20°	10874.5	11025.2	11118.1	11149.6	11118.1	11025.2	10874.5	10671.6	10407.1	10096.5	9736.8



REPORT NUMBER: P624761 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-VN-04-E-PRO-5700K-77

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	10360.1	10504.5	10593.0	10622.9	10593.0	10504.5	10360.1	10164.2	9916.4	9621.2	9286.4
-25°	9809.4	9944.2	10026.5	10054.2	10026.5	9944.2	9809.4	9625.5	9395.5	9121.8	8810.7
-27.5°	9236.9	9360.3	9435.5	9460.7	9435.5	9360.3	9236.9	9067.9	8856.3	8601.7	8311.5
-30°	8651.7	8765.3	8834.3	8857.4	8834.3	8765.3	8651.7	8495.6	8299.4	8063.9	7793.4
-32.5°	8055.1	8159.5	8222.9	8244.1	8222.9	8159.5	8055.1	7911.0	7729.4	7514.8	7270.2
-35°	7454.6	7548.0	7604.6	7623.5	7604.6	7548.0	7454.6	7325.5	7162.4	6967.3	6743.5
-37.5°	6862.1	6946.8	6998.1	7015.2	6998.1	6946.8	6862.1	6744.8	6596.2	6417.7	6215.2
-40°	6274.5	6350.5	6396.4	6411.8	6396.4	6350.5	6274.5	6169.1	6035.4	5874.3	5692.5
-42.5°	5699.7	5766.8	5807.3	5820.8	5807.3	5766.8	5699.7	5606.6	5488.2	5345.5	5182.3
-45°	5145.4	5204.5	5240.2	5252.1	5240.2	5204.5	5145.4	5063.2	4958.6	4832.3	4685.6
-47.5°	4610.4	4663.2	4695.0	4705.6	4695.0	4663.2	4610.4	4537.1	4443.5	4330.4	4198.4
-50°	4092.5	4137.7	4164.9	4174.0	4164.9	4137.7	4092.5	4029.6	3949.3	3852.1	3738.5
-52.5°	3606.1	3645.4	3669.1	3677.0	3669.1	3645.4	3606.1	3551.4	3481.5	3396.7	3297.6
-55°	3143.7	3177.5	3197.9	3204.7	3197.9	3177.5	3143.7	3096.6	3036.4	2963.3	2877.7
-57.5°	2708.4	2736.8	2753.9	2759.6	2753.9	2736.8	2708.4	2668.8	2618.2	2556.8	2484.7
-60°	2308.8	2331.2	2344.6	2349.1	2344.6	2331.2	2308.8	2277.7	2237.8	2189.4	2132.7
-62.5°	1961.7	1979.1	1989.5	1993.0	1989.5	1979.1	1961.7	1937.5	1906.6	1868.9	1824.7
-65°	1662.7	1675.8	1683.8	1686.4	1683.8	1675.8	1662.7	1644.3	1620.8	1592.2	1558.6
-67.5°	1408.7	1418.8	1424.8	1426.8	1424.8	1418.8	1408.7	1394.7	1376.8	1355.0	1329.4
-70°	1189.6	1197.7	1202.6	1204.2	1202.6	1197.7	1189.6	1178.2	1163.7	1146.0	1125.2
-72.5°	987.2	993.8	997.7	999.0	997.7	993.8	987.2	978.1	966.4	952.2	935.5
-75°	799.4	804.5	807.6	808.6	807.6	804.5	799.4	792.2	783.1	771.9	758.8
-77.5°	626.2	630.0	632.2	633.0	632.2	630.0	626.2	621.0	614.2	606.0	596.4
-80°	472.5	475.1	476.7	477.2	476.7	475.1	472.5	468.9	464.2	458.5	451.8
-82.5°	337.9	339.7	340.8	341.2	340.8	339.7	337.9	335.3	332.0	328.0	323.3
-85°	210.8	211.9	212.5	212.7	212.5	211.9	210.8	209.3	207.4	205.1	202.4
-87.5°	100.5	101.0	101.3	101.4	101.3	101.0	100.5	99.9	99.0	97.9	96.7
-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: P624761 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-5700K-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°	95.3	93.7	91.9	89.9	87.8	85.5	83.1	80.4	77.7	74.7	71.7
85°	199.2	195.7	191.8	187.5	182.8	177.8	172.4	166.6	160.5	154.1	147.4
82.5°	317.8	311.7	304.9	297.4	289.3	280.6	271.2	261.2	250.7	239.5	227.9
80°	444.1	435.4	425.8	415.2	403.7	391.3	378.1	364.0	349.0	333.8	318.2
77.5°	585.3	572.9	559.0	543.8	527.3	509.5	490.4	471.1	452.4	432.7	412.1
75°	743.7	726.7	707.9	687.2	664.8	640.6	616.8	592.4	566.7	539.6	511.2
72.5°	916.3	894.7	870.7	844.4	815.8	786.9	756.6	724.4	690.5	654.7	619.1
70°	1101.4	1074.5	1044.8	1012.2	978.4	943.1	905.3	865.3	823.0	780.9	738.0
67.5°	1300.0	1267.0	1230.3	1191.3	1151.2	1108.1	1062.1	1013.3	964.5	914.3	861.9
65°	1520.1	1476.9	1429.0	1383.7	1335.0	1282.7	1226.8	1170.5	1113.1	1052.8	990.4
62.5°	1774.1	1717.3	1659.3	1601.1	1538.0	1470.3	1402.3	1336.8	1267.9	1196.3	1126.8
60°	2067.7	1994.8	1925.1	1849.2	1767.2	1680.3	1601.1	1517.2	1429.0	1349.5	1267.0
57.5°	2402.4	2315.2	2226.7	2130.2	2025.8	1925.1	1822.8	1714.7	1614.2	1513.7	1411.6
55°	2780.0	2677.5	2566.1	2444.6	2318.3	2196.8	2067.7	1940.0	1817.0	1688.5	1575.0
52.5°	3185.7	3066.4	2935.0	2792.0	2647.4	2495.6	2336.6	2189.4	2035.3	1891.0	1747.3
50°	3612.5	3475.1	3323.9	3162.2	2995.7	2818.0	2640.1	2457.6	2277.7	2105.3	1935.9
47.5°	4056.4	3899.8	3727.8	3547.9	3357.4	3157.6	2955.7	2744.9	2540.7	2331.2	2140.6
45°	4523.0	4341.9	4145.3	3944.3	3728.9	3508.9	3279.6	3048.7	2812.6	2582.6	2349.1
42.5°	5001.4	4800.5	4584.0	4353.0	4110.4	3865.6	3611.4	3355.4	3095.7	2835.7	2582.6
40°	5489.1	5263.6	5026.8	4772.0	4505.9	4226.4	3948.6	3663.1	3380.8	3095.7	2812.6
37.5°	5986.9	5737.9	5473.6	5192.1	4901.9	4598.9	4287.2	3976.5	3663.1	3355.4	3048.7
35°	6491.8	6218.6	5924.0	5616.5	5294.6	4967.6	4630.1	4287.2	3948.6	3611.4	3279.6
32.5°	6996.5	6698.2	6376.6	6039.7	5688.8	5329.8	4967.6	4598.9	4226.4	3865.6	3508.9
30°	7494.2	7170.9	6824.5	6457.7	6078.6	5688.8	5294.6	4901.9	4505.9	4110.4	3728.9
27.5°	7986.4	7631.9	7259.6	6867.1	6457.7	6039.7	5616.5	5192.1	4772.0	4353.0	3944.3
25°	8462.8	8084.8	7679.2	7259.6	6824.5	6376.6	5924.0	5473.6	5026.8	4584.0	4145.3
22.5°	8916.7	8514.0	8084.8	7631.9	7170.9	6698.2	6218.6	5737.9	5263.6	4800.5	4341.9
20°	9342.2	8916.7	8462.8	7986.4	7494.2	6996.5	6491.8	5986.9	5489.1	5001.4	4523.0
17.5°	9736.8	9286.4	8810.7	8311.5	7793.4	7270.2	6743.5	6215.2	5692.5	5182.3	4685.6
15°	10096.5	9621.2	9121.8	8601.7	8063.9	7514.8	6967.3	6417.7	5874.3	5345.5	4832.3
12.5°	10407.1	9916.4	9395.5	8856.3	8299.4	7729.4	7162.4	6596.2	6035.4	5488.2	4958.6
10°	10671.6	10164.2	9625.5	9067.9	8495.6	7911.0	7325.5	6744.8	6169.1	5606.6	5063.2
7.5°	10874.5	10360.1	9809.4	9236.9	8651.7	8055.1	7454.6	6862.1	6274.5	5699.7	5145.4
5°	11025.2	10504.5	9944.2	9360.3	8765.3	8159.5	7548.0	6946.8	6350.5	5766.8	5204.5
2.5°	11118.1	10593.0	10026.5	9435.5	8834.3	8222.9	7604.6	6998.1	6396.4	5807.3	5240.2
0°	11149.6	10622.9	10054.2	9460.7	8857.4	8244.1	7623.5	7015.2	6411.8	5820.8	5252.1
-2.5°	11118.1	10593.0	10026.5	9435.5	8834.3	8222.9	7604.6	6998.1	6396.4	5807.3	5240.2
-5°	11025.2	10504.5	9944.2	9360.3	8765.3	8159.5	7548.0	6946.8	6350.5	5766.8	5204.5
-7.5°	10874.5	10360.1	9809.4	9236.9	8651.7	8055.1	7454.6	6862.1	6274.5	5699.7	5145.4
-10°	10671.6	10164.2	9625.5	9067.9	8495.6	7911.0	7325.5	6744.8	6169.1	5606.6	5063.2
-12.5°	10407.1	9916.4	9395.5	8856.3	8299.4	7729.4	7162.4	6596.2	6035.4	5488.2	4958.6
-15°	10096.5	9621.2	9121.8	8601.7	8063.9	7514.8	6967.3	6417.7	5874.3	5345.5	4832.3
-17.5°	9736.8	9286.4	8810.7	8311.5	7793.4	7270.2	6743.5	6215.2	5692.5	5182.3	4685.6
-20°	9342.2	8916.7	8462.8	7986.4	7494.2	6996.5	6491.8	5986.9	5489.1	5001.4	4523.0



REPORT NUMBER: P624761 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-5700K-77

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	8916.7	8514.0	8084.8	7631.9	7170.9	6698.2	6218.6	5737.9	5263.6	4800.5	4341.9
-25°	8462.8	8084.8	7679.2	7259.6	6824.5	6376.6	5924.0	5473.6	5026.8	4584.0	4145.3
-27.5°	7986.4	7631.9	7259.6	6867.1	6457.7	6039.7	5616.5	5192.1	4772.0	4353.0	3944.3
-30°	7494.2	7170.9	6824.5	6457.7	6078.6	5688.8	5294.6	4901.9	4505.9	4110.4	3728.9
-32.5°	6996.5	6698.2	6376.6	6039.7	5688.8	5329.8	4967.6	4598.9	4226.4	3865.6	3508.9
-35°	6491.8	6218.6	5924.0	5616.5	5294.6	4967.6	4630.1	4287.2	3948.6	3611.4	3279.6
-37.5°	5986.9	5737.9	5473.6	5192.1	4901.9	4598.9	4287.2	3976.5	3663.1	3355.4	3048.7
-40°	5489.1	5263.6	5026.8	4772.0	4505.9	4226.4	3948.6	3663.1	3380.8	3095.7	2812.6
-42.5°	5001.4	4800.5	4584.0	4353.0	4110.4	3865.6	3611.4	3355.4	3095.7	2835.7	2582.6
-45°	4523.0	4341.9	4145.3	3944.3	3728.9	3508.9	3279.6	3048.7	2812.6	2582.6	2349.1
-47.5°	4056.4	3899.8	3727.8	3547.9	3357.4	3157.6	2955.7	2744.9	2540.7	2331.2	2140.6
-50°	3612.5	3475.1	3323.9	3162.2	2995.7	2818.0	2640.1	2457.6	2277.7	2105.3	1935.9
-52.5°	3185.7	3066.4	2935.0	2792.0	2647.4	2495.6	2336.6	2189.4	2035.3	1891.0	1747.3
-55°	2780.0	2677.5	2566.1	2444.6	2318.3	2196.8	2067.7	1940.0	1817.0	1688.5	1575.0
-57.5°	2402.4	2315.2	2226.7	2130.2	2025.8	1925.1	1822.8	1714.7	1614.2	1513.7	1411.6
-60°	2067.7	1994.8	1925.1	1849.2	1767.2	1680.3	1601.1	1517.2	1429.0	1349.5	1267.0
-62.5°	1774.1	1717.3	1659.3	1601.1	1538.0	1470.3	1402.3	1336.8	1267.9	1196.3	1126.8
-65°	1520.1	1476.9	1429.0	1383.7	1335.0	1282.7	1226.8	1170.5	1113.1	1052.8	990.4
-67.5°	1300.0	1267.0	1230.3	1191.3	1151.2	1108.1	1062.1	1013.3	964.5	914.3	861.9
-70°	1101.4	1074.5	1044.8	1012.2	978.4	943.1	905.3	865.3	823.0	780.9	738.0
-72.5°	916.3	894.7	870.7	844.4	815.8	786.9	756.6	724.4	690.5	654.7	619.1
-75°	743.7	726.7	707.9	687.2	664.8	640.6	616.8	592.4	566.7	539.6	511.2
-77.5°	585.3	572.9	559.0	543.8	527.3	509.5	490.4	471.1	452.4	432.7	412.1
-80°	444.1	435.4	425.8	415.2	403.7	391.3	378.1	364.0	349.0	333.8	318.2
-82.5°	317.8	311.7	304.9	297.4	289.3	280.6	271.2	261.2	250.7	239.5	227.9
-85°	199.2	195.7	191.8	187.5	182.8	177.8	172.4	166.6	160.5	154.1	147.4
-87.5°	95.3	93.7	91.9	89.9	87.8	85.5	83.1	80.4	77.7	74.7	71.7
-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: P624761 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-5700K-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°	68.5	65.2	61.7	58.1	54.5	50.7	46.8	42.8	38.8	34.7	30.5
85°	140.4	133.1	125.5	117.7	109.6	101.3	93.5	85.6	77.5	69.3	60.9
82.5°	215.7	204.4	193.0	181.2	169.1	156.7	143.9	130.9	117.6	104.0	91.2
80°	302.0	285.1	267.6	249.5	230.9	211.9	194.8	177.5	159.7	141.7	123.4
77.5°	390.6	368.2	345.1	322.3	299.0	275.0	250.5	225.5	201.6	179.1	156.2
75°	481.6	454.2	426.3	397.6	368.1	337.9	308.5	278.5	247.9	216.7	188.8
72.5°	584.5	548.5	511.3	473.5	439.0	403.6	367.4	331.0	295.3	259.1	222.4
70°	693.4	647.0	602.9	559.0	513.9	468.9	427.5	385.3	342.3	301.0	259.1
67.5°	807.4	755.2	701.2	645.6	593.5	541.5	488.3	439.5	391.3	342.3	295.3
65°	929.7	866.7	802.2	740.4	676.9	614.2	555.3	495.2	439.5	385.3	331.0
62.5°	1054.6	981.2	909.6	835.9	764.0	692.6	621.2	555.3	488.3	427.5	367.4
60°	1183.1	1101.4	1017.1	935.5	853.1	771.9	692.6	614.2	541.5	468.9	403.6
57.5°	1318.5	1222.4	1129.7	1035.9	944.1	853.1	764.0	676.9	593.5	513.9	439.0
55°	1457.9	1349.8	1243.1	1139.1	1035.9	935.5	835.9	740.4	645.6	559.0	473.5
52.5°	1612.1	1482.4	1360.2	1243.1	1129.7	1017.1	909.6	802.2	701.2	602.9	511.3
50°	1776.9	1624.6	1482.4	1349.8	1222.4	1101.4	981.2	866.7	755.2	647.0	548.5
47.5°	1950.9	1776.9	1612.1	1457.9	1318.5	1183.1	1054.6	929.7	807.4	693.4	584.5
45°	2140.6	1935.9	1747.3	1575.0	1411.6	1267.0	1126.8	990.4	861.9	738.0	619.1
42.5°	2331.2	2105.3	1891.0	1688.5	1513.7	1349.5	1196.3	1052.8	914.3	780.9	654.7
40°	2540.7	2277.7	2035.3	1817.0	1614.2	1429.0	1267.9	1113.1	964.5	823.0	690.5
37.5°	2744.9	2457.6	2189.4	1940.0	1714.7	1517.2	1336.8	1170.5	1013.3	865.3	724.4
35°	2955.7	2640.1	2336.6	2067.7	1822.8	1601.1	1402.3	1226.8	1062.1	905.3	756.6
32.5°	3157.6	2818.0	2495.6	2196.8	1925.1	1680.3	1470.3	1282.7	1108.1	943.1	786.9
30°	3357.4	2995.7	2647.4	2318.3	2025.8	1767.2	1538.0	1335.0	1151.2	978.4	815.8
27.5°	3547.9	3162.2	2792.0	2444.6	2130.2	1849.2	1601.1	1383.7	1191.3	1012.2	844.4
25°	3727.8	3323.9	2935.0	2566.1	2226.7	1925.1	1659.3	1429.0	1230.3	1044.8	870.7
22.5°	3899.8	3475.1	3066.4	2677.5	2315.2	1994.8	1717.3	1476.9	1267.0	1074.5	894.7
20°	4056.4	3612.5	3185.7	2780.0	2402.4	2067.7	1774.1	1520.1	1300.0	1101.4	916.3
17.5°	4198.4	3738.5	3297.6	2877.7	2484.7	2132.7	1824.7	1558.6	1329.4	1125.2	935.5
15°	4330.4	3852.1	3396.7	2963.3	2556.8	2189.4	1868.9	1592.2	1355.0	1146.0	952.2
12.5°	4443.5	3949.3	3481.5	3036.4	2618.2	2237.8	1906.6	1620.8	1376.8	1163.7	966.4
10°	4537.1	4029.6	3551.4	3096.6	2668.8	2277.7	1937.5	1644.3	1394.7	1178.2	978.1
7.5°	4610.4	4092.5	3606.1	3143.7	2708.4	2308.8	1961.7	1662.7	1408.7	1189.6	987.2
5°	4663.2	4137.7	3645.4	3177.5	2736.8	2331.2	1979.1	1675.8	1418.8	1197.7	993.8
2.5°	4695.0	4164.9	3669.1	3197.9	2753.9	2344.6	1989.5	1683.8	1424.8	1202.6	997.7
0°	4705.6	4174.0	3677.0	3204.7	2759.6	2349.1	1993.0	1686.4	1426.8	1204.2	999.0
-2.5°	4695.0	4164.9	3669.1	3197.9	2753.9	2344.6	1989.5	1683.8	1424.8	1202.6	997.7
-5°	4663.2	4137.7	3645.4	3177.5	2736.8	2331.2	1979.1	1675.8	1418.8	1197.7	993.8
-7.5°	4610.4	4092.5	3606.1	3143.7	2708.4	2308.8	1961.7	1662.7	1408.7	1189.6	987.2
-10°	4537.1	4029.6	3551.4	3096.6	2668.8	2277.7	1937.5	1644.3	1394.7	1178.2	978.1
-12.5°	4443.5	3949.3	3481.5	3036.4	2618.2	2237.8	1906.6	1620.8	1376.8	1163.7	966.4
-15°	4330.4	3852.1	3396.7	2963.3	2556.8	2189.4	1868.9	1592.2	1355.0	1146.0	952.2
-17.5°	4198.4	3738.5	3297.6	2877.7	2484.7	2132.7	1824.7	1558.6	1329.4	1125.2	935.5
-20°	4056.4	3612.5	3185.7	2780.0	2402.4	2067.7	1774.1	1520.1	1300.0	1101.4	916.3



REPORT NUMBER: P624761 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-5700K-77

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	3899.8	3475.1	3066.4	2677.5	2315.2	1994.8	1717.3	1476.9	1267.0	1074.5	894.7
-25°	3727.8	3323.9	2935.0	2566.1	2226.7	1925.1	1659.3	1429.0	1230.3	1044.8	870.7
-27.5°	3547.9	3162.2	2792.0	2444.6	2130.2	1849.2	1601.1	1383.7	1191.3	1012.2	844.4
-30°	3357.4	2995.7	2647.4	2318.3	2025.8	1767.2	1538.0	1335.0	1151.2	978.4	815.8
-32.5°	3157.6	2818.0	2495.6	2196.8	1925.1	1680.3	1470.3	1282.7	1108.1	943.1	786.9
-35°	2955.7	2640.1	2336.6	2067.7	1822.8	1601.1	1402.3	1226.8	1062.1	905.3	756.6
-37.5°	2744.9	2457.6	2189.4	1940.0	1714.7	1517.2	1336.8	1170.5	1013.3	865.3	724.4
-40°	2540.7	2277.7	2035.3	1817.0	1614.2	1429.0	1267.9	1113.1	964.5	823.0	690.5
-42.5°	2331.2	2105.3	1891.0	1688.5	1513.7	1349.5	1196.3	1052.8	914.3	780.9	654.7
-45°	2140.6	1935.9	1747.3	1575.0	1411.6	1267.0	1126.8	990.4	861.9	738.0	619.1
-47.5°	1950.9	1776.9	1612.1	1457.9	1318.5	1183.1	1054.6	929.7	807.4	693.4	584.5
-50°	1776.9	1624.6	1482.4	1349.8	1222.4	1101.4	981.2	866.7	755.2	647.0	548.5
-52.5°	1612.1	1482.4	1360.2	1243.1	1129.7	1017.1	909.6	802.2	701.2	602.9	511.3
-55°	1457.9	1349.8	1243.1	1139.1	1035.9	935.5	835.9	740.4	645.6	559.0	473.5
-57.5°	1318.5	1222.4	1129.7	1035.9	944.1	853.1	764.0	676.9	593.5	513.9	439.0
-60°	1183.1	1101.4	1017.1	935.5	853.1	771.9	692.6	614.2	541.5	468.9	403.6
-62.5°	1054.6	981.2	909.6	835.9	764.0	692.6	621.2	555.3	488.3	427.5	367.4
-65°	929.7	866.7	802.2	740.4	676.9	614.2	555.3	495.2	439.5	385.3	331.0
-67.5°	807.4	755.2	701.2	645.6	593.5	541.5	488.3	439.5	391.3	342.3	295.3
-70°	693.4	647.0	602.9	559.0	513.9	468.9	427.5	385.3	342.3	301.0	259.1
-72.5°	584.5	548.5	511.3	473.5	439.0	403.6	367.4	331.0	295.3	259.1	222.4
-75°	481.6	454.2	426.3	397.6	368.1	337.9	308.5	278.5	247.9	216.7	188.8
-77.5°	390.6	368.2	345.1	322.3	299.0	275.0	250.5	225.5	201.6	179.1	156.2
-80°	302.0	285.1	267.6	249.5	230.9	211.9	194.8	177.5	159.7	141.7	123.4
-82.5°	215.7	204.4	193.0	181.2	169.1	156.7	143.9	130.9	117.6	104.0	91.2
-85°	140.4	133.1	125.5	117.7	109.6	101.3	93.5	85.6	77.5	69.3	60.9
-87.5°	68.5	65.2	61.7	58.1	54.5	50.7	46.8	42.8	38.8	34.7	30.5
-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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Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



REPORT NUMBER: P624761 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-5700K-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°	26.2	21.9	17.6	13.2	8.8	4.4	0.0
85°	52.4	43.8	35.2	26.4	17.7	8.8	0.0
82.5°	78.5	65.7	52.7	39.6	26.4	13.2	0.0
80°	104.8	87.4	70.1	52.7	35.2	17.6	0.0
77.5°	133.1	109.6	87.4	65.7	43.8	21.9	0.0
75°	161.1	133.1	104.8	78.5	52.4	26.2	0.0
72.5°	188.8	156.2	123.4	91.2	60.9	30.5	0.0
70°	216.7	179.1	141.7	104.0	69.3	34.7	0.0
67.5°	247.9	201.6	159.7	117.6	77.5	38.8	0.0
65°	278.5	225.5	177.5	130.9	85.6	42.8	0.0
62.5°	308.5	250.5	194.8	143.9	93.5	46.8	0.0
60°	337.9	275.0	211.9	156.7	101.3	50.7	0.0
57.5°	368.1	299.0	230.9	169.1	109.6	54.5	0.0
55°	397.6	322.3	249.5	181.2	117.7	58.1	0.0
52.5°	426.3	345.1	267.6	193.0	125.5	61.7	0.0
50°	454.2	368.2	285.1	204.4	133.1	65.2	0.0
47.5°	481.6	390.6	302.0	215.7	140.4	68.5	0.0
45°	511.2	412.1	318.2	227.9	147.4	71.7	0.0
42.5°	539.6	432.7	333.8	239.5	154.1	74.7	0.0
40°	566.7	452.4	349.0	250.7	160.5	77.7	0.0
37.5°	592.4	471.1	364.0	261.2	166.6	80.4	0.0
35°	616.8	490.4	378.1	271.2	172.4	83.1	0.0
32.5°	640.6	509.5	391.3	280.6	177.8	85.5	0.0
30°	664.8	527.3	403.7	289.3	182.8	87.8	0.0
27.5°	687.2	543.8	415.2	297.4	187.5	89.9	0.0
25°	707.9	559.0	425.8	304.9	191.8	91.9	0.0
22.5°	726.7	572.9	435.4	311.7	195.7	93.7	0.0
20°	743.7	585.3	444.1	317.8	199.2	95.3	0.0
17.5°	758.8	596.4	451.8	323.3	202.4	96.7	0.0
15°	771.9	606.0	458.5	328.0	205.1	97.9	0.0
12.5°	783.1	614.2	464.2	332.0	207.4	99.0	0.0
10°	792.2	621.0	468.9	335.3	209.3	99.9	0.0
7.5°	799.4	626.2	472.5	337.9	210.8	100.5	0.0
5°	804.5	630.0	475.1	339.7	211.9	101.0	0.0
2.5°	807.6	632.2	476.7	340.8	212.5	101.3	0.0
0°	808.6	633.0	477.2	341.2	212.7	101.4	0.0
-2.5°	807.6	632.2	476.7	340.8	212.5	101.3	0.0
-5°	804.5	630.0	475.1	339.7	211.9	101.0	0.0
-7.5°	799.4	626.2	472.5	337.9	210.8	100.5	0.0
-10°	792.2	621.0	468.9	335.3	209.3	99.9	0.0
-12.5°	783.1	614.2	464.2	332.0	207.4	99.0	0.0
-15°	771.9	606.0	458.5	328.0	205.1	97.9	0.0
-17.5°	758.8	596.4	451.8	323.3	202.4	96.7	0.0
-20°	743.7	585.3	444.1	317.8	199.2	95.3	0.0

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Scaled Data Report



REPORT NUMBER: P624761 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-E-PRO-5700K-77

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	726.7	572.9	435.4	311.7	195.7	93.7	0.0
-25°	707.9	559.0	425.8	304.9	191.8	91.9	0.0
-27.5°	687.2	543.8	415.2	297.4	187.5	89.9	0.0
-30°	664.8	527.3	403.7	289.3	182.8	87.8	0.0
-32.5°	640.6	509.5	391.3	280.6	177.8	85.5	0.0
-35°	616.8	490.4	378.1	271.2	172.4	83.1	0.0
-37.5°	592.4	471.1	364.0	261.2	166.6	80.4	0.0
-40°	566.7	452.4	349.0	250.7	160.5	77.7	0.0
-42.5°	539.6	432.7	333.8	239.5	154.1	74.7	0.0
-45°	511.2	412.1	318.2	227.9	147.4	71.7	0.0
-47.5°	481.6	390.6	302.0	215.7	140.4	68.5	0.0
-50°	454.2	368.2	285.1	204.4	133.1	65.2	0.0
-52.5°	426.3	345.1	267.6	193.0	125.5	61.7	0.0
-55°	397.6	322.3	249.5	181.2	117.7	58.1	0.0
-57.5°	368.1	299.0	230.9	169.1	109.6	54.5	0.0
-60°	337.9	275.0	211.9	156.7	101.3	50.7	0.0
-62.5°	308.5	250.5	194.8	143.9	93.5	46.8	0.0
-65°	278.5	225.5	177.5	130.9	85.6	42.8	0.0
-67.5°	247.9	201.6	159.7	117.6	77.5	38.8	0.0
-70°	216.7	179.1	141.7	104.0	69.3	34.7	0.0
-72.5°	188.8	156.2	123.4	91.2	60.9	30.5	0.0
-75°	161.1	133.1	104.8	78.5	52.4	26.2	0.0
-77.5°	133.1	109.6	87.4	65.7	43.8	21.9	0.0
-80°	104.8	87.4	70.1	52.7	35.2	17.6	0.0
-82.5°	78.5	65.7	52.7	39.6	26.4	13.2	0.0
-85°	52.4	43.8	35.2	26.4	17.7	8.8	0.0
-87.5°	26.2	21.9	17.6	13.2	8.8	4.4	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)