

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: P624793 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-VN-08-E-PRO-4000K-44**

Issue Date: 11/8/2022

**Test Information**

Test Method: LM-79-08  
 Report Number: P624793 (CONVERTED FROM TYPE C PHOTOMETRY)  
 TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-765-8)  
 Test Lab: INNOVATION CENTER  
 Issue Date: 11/8/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: EPHESUS  
 Catalog Number: EPH-VN-08-E-PRO-4000K-44  
 Description: EPHESUS LUMAVISION CCT TUNING FLOOD  
 3000K AND TYPE 44 OPTICS  
 Light Source: -  
 Ballast/Driver: ELECTRONIC DRIVER

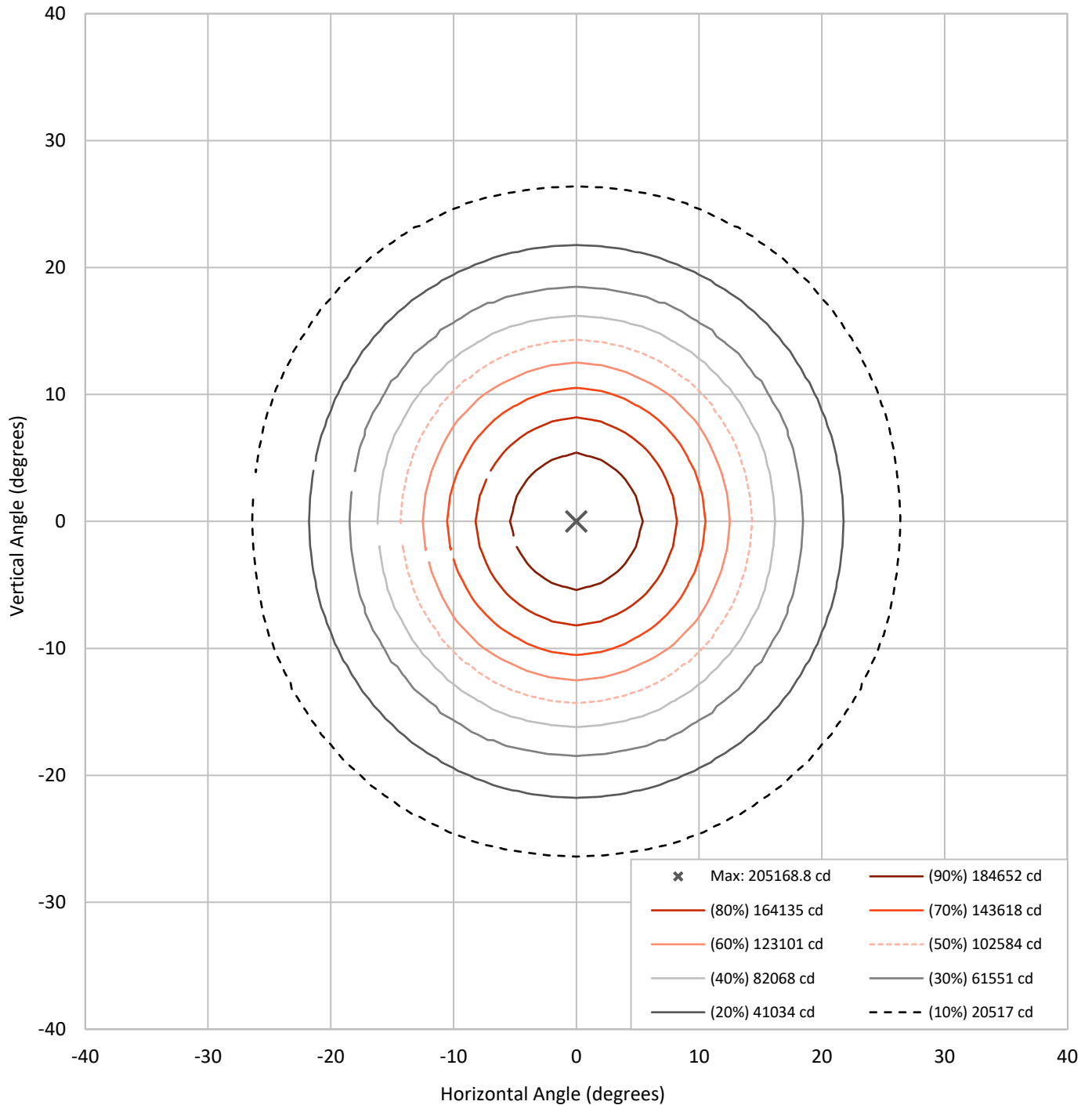
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	63439.1 lumens	Max Intensity:	205168.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	127.1 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	28.6°H x 28.6°V	Field Angle (10%):	52.7°H x 52.7°V
Beam Lumens:	30525.3 lumens	Field Lumens:	51540.1 lumens
Beam Efficiency:	48.1%	Field Efficiency:	81.2%

Input Watts (W): 499  
 Input Voltage (V): NR  
 Input Current (Ain): NR  
 Voltage Rise (V): NR  
 Power Factor: NR  
 Total Harmonic Distortion (THDi): NR  
 Frequency (hertz): 60  
 Stabilization Time: NR  
 Operation Time: NR  
 Ambient Temperature (°C): NR  
 Test Distance: 25 FT

REPORT NUMBER: P624793 (CONVERTED FROM TYPE C PHOTOMETRY)  
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### Iso-Candela Plot





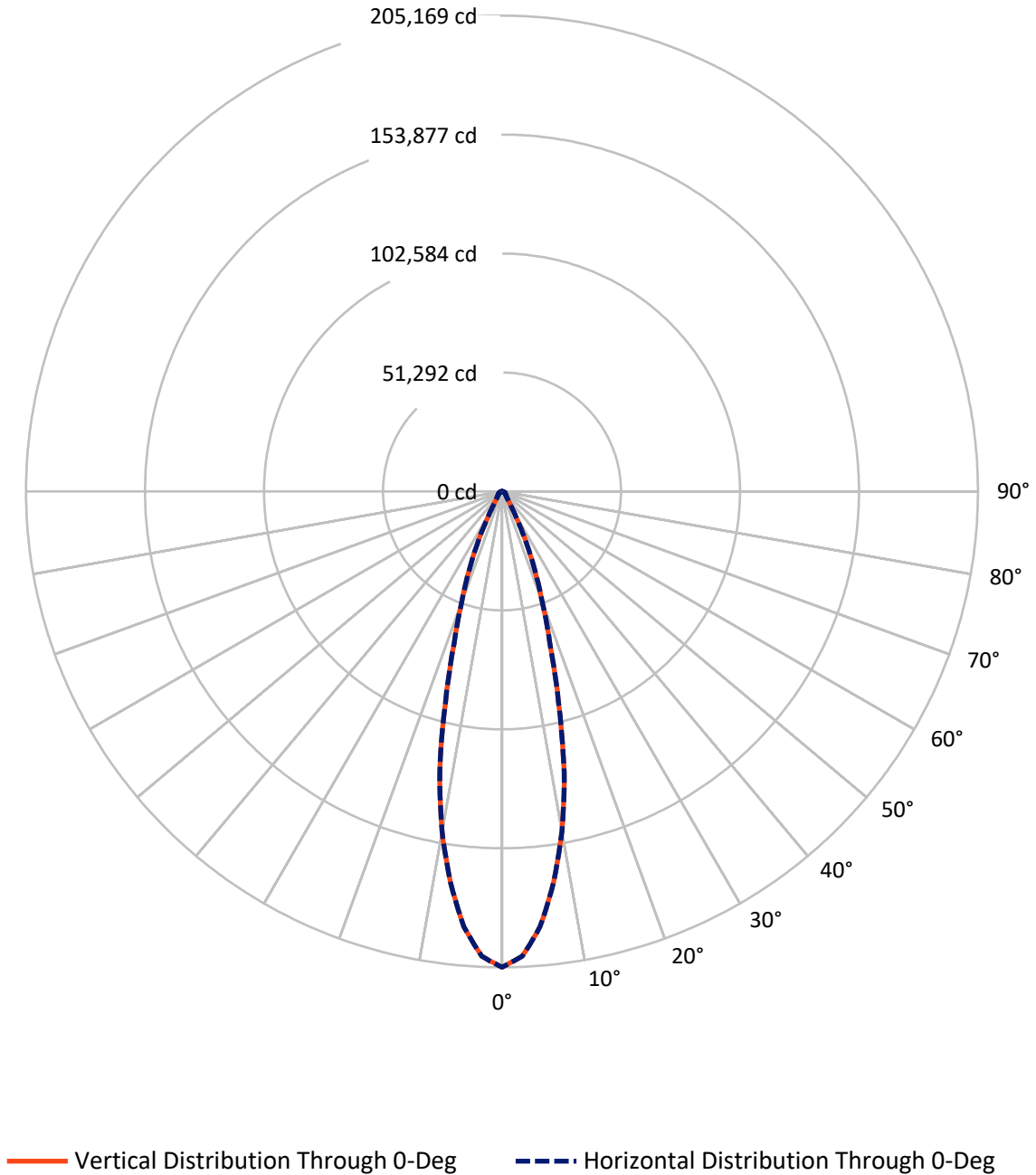
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### Lumen Table

90	1.5	10.8	27.3	43.6	50.3	43.6	27.3	10.8	1.5										
80	1.5	10.8	27.3	43.6	50.3	43.6	27.3	10.8	1.5										
70	4.9	5.2	10.5	17.3	24.4	30.7	35.4	37.9	37.9	35.4	30.7	24.4	17.3	10.5	5.2	4.9			
60		7.8	16.1	25.8	35.6	44.3	50.8	54.3	54.3	50.8	44.3	35.6	25.8	16.1	7.8				
50	8.4	10.5	21.0	33.1	45.4	57.7	68.8	75.8	75.8	68.8	57.7	45.4	33.1	21.0	10.5	8.4			
40		12.7	25.0	39.3	56.4	80.2	117.1	155.6	155.6	117.1	80.2	56.4	39.3	25.0	12.7				
30	11.1	14.5	28.1	45.1	72.7	152.2	417.4	756.0	756.0	417.4	152.2	72.7	45.1	28.1	14.5	11.1			
20		15.7	30.3	50.6	99.9	394.0	1354.4	2613.6	2613.6	1354.4	394.0	99.9	50.6	30.3	15.7				
10	12.1	16.3	31.5	54.1	129.3	694.1	2542.8	5013.9	5013.9	2542.8	694.1	129.3	54.1	31.5	16.3	12.1			
0		16.3	31.5	54.1	129.3	694.1	2542.8	5013.9	5013.9	2542.8	694.1	129.3	54.1	31.5	16.3				
-10	11.1	15.7	30.3	50.6	99.9	394.0	1354.4	2613.6	2613.6	1354.4	394.0	99.9	50.6	30.3	15.7	11.1			
-20		14.5	28.1	45.1	72.7	152.2	417.4	756.0	756.0	417.4	152.2	72.7	45.1	28.1	14.5				
-30	8.4	12.7	25.0	39.3	56.4	80.2	117.1	155.6	155.6	117.1	80.2	56.4	39.3	25.0	12.7	8.4			
-40		10.5	21.0	33.1	45.4	57.7	68.8	75.8	75.8	68.8	57.7	45.4	33.1	21.0	10.5				
-50	4.9	7.8	16.1	25.8	35.6	44.3	50.8	54.3	54.3	50.8	44.3	35.6	25.8	16.1	7.8	4.9			
-60		5.2	10.5	17.3	24.4	30.7	35.4	37.9	37.9	35.4	30.7	24.4	17.3	10.5	5.2				
-70	1.5	10.8	27.3	43.6	50.3	43.6	27.3	10.8	1.5							1.5			
-80		1.5	10.8	27.3	43.6	50.3	43.6	27.3	10.8	1.5									
-90	1.5	10.8	27.3	43.6	50.3	43.6	27.3	10.8	1.5										
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

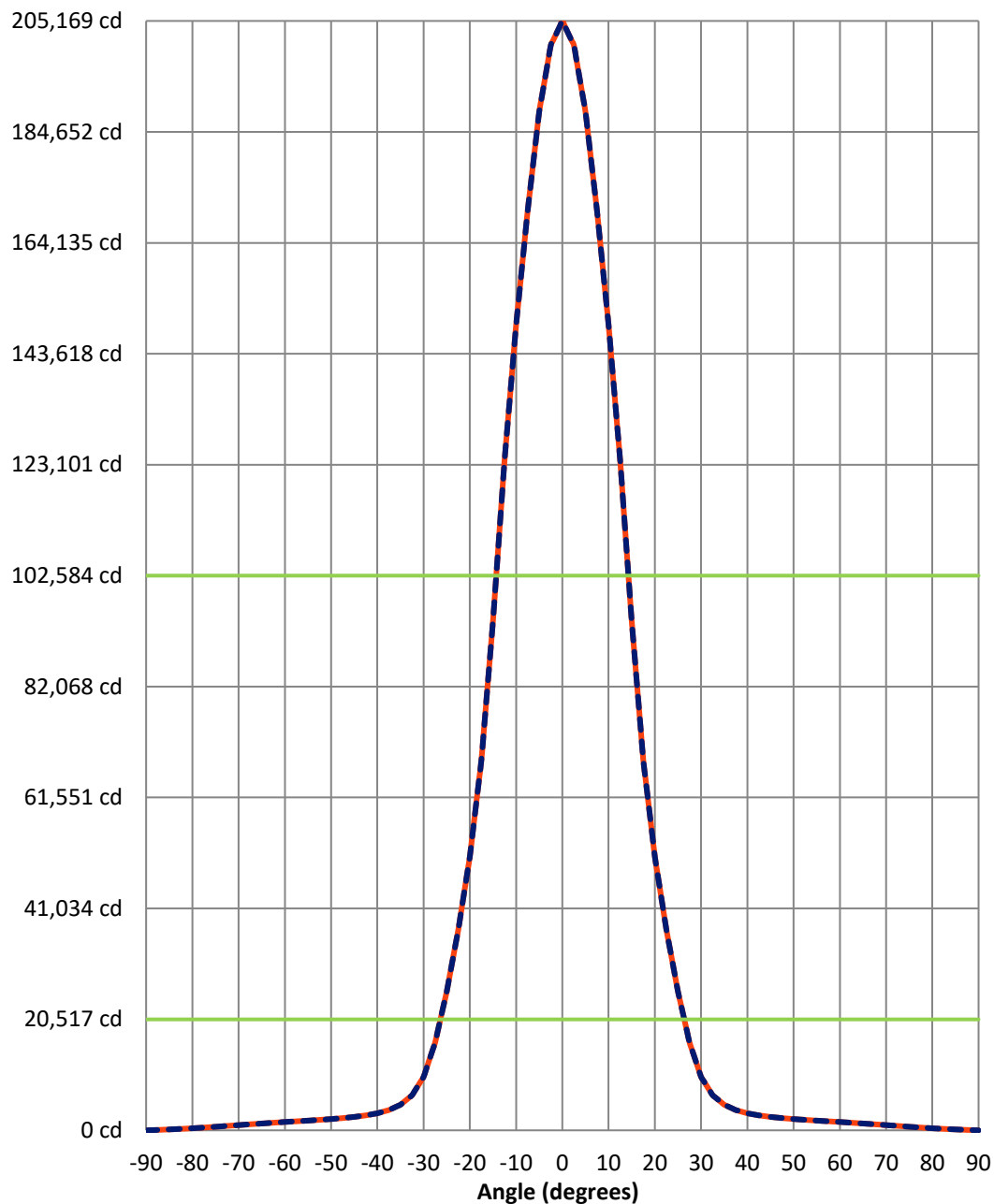
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 28.6°  
 V Angle: 28.6°  
 Lumens: 30525.3  
 Efficiency: 48.1%

**Field:**  
 H Angle: 52.7°  
 V Angle: 52.7°  
 Lumens: 51540.1  
 Efficiency: 81.2%

**Spill:**  
 Lumens: 11899  
 Efficiency: 18.8%

— 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	3.2	6.3	9.5	12.6	15.8	18.8	21.9	24.9	27.9	30.8
85°	0.0	6.3	12.7	19.0	25.3	31.5	37.6	43.7	49.7	55.7	61.5
82.5°	0.0	9.5	19.0	28.4	37.8	47.1	56.4	65.5	75.0	86.3	97.3
80°	0.0	12.6	25.3	37.8	50.3	62.7	75.6	91.1	106.3	121.3	136.1
77.5°	0.0	15.8	31.5	47.1	62.7	79.7	99.1	118.4	137.4	156.2	175.3
75°	0.0	18.8	37.6	56.4	75.6	99.1	122.5	145.5	168.5	192.6	216.2
72.5°	0.0	21.9	43.7	65.5	91.1	118.4	145.5	172.9	201.2	229.2	256.7
70°	0.0	24.9	49.7	75.0	106.3	137.4	168.5	201.2	233.6	265.5	301.1
67.5°	0.0	27.9	55.7	86.3	121.3	156.2	192.6	229.2	265.5	306.0	345.9
65°	0.0	30.8	61.5	97.3	136.1	175.3	216.2	256.7	301.1	345.9	392.4
62.5°	0.0	33.6	67.2	108.2	150.5	194.6	239.4	286.3	336.0	386.5	443.4
60°	0.0	36.4	72.7	118.8	164.7	213.5	262.0	316.2	370.2	431.7	493.5
57.5°	0.0	39.1	79.6	129.2	179.4	232.0	286.8	345.5	408.3	475.8	545.8
55°	0.0	41.7	86.3	139.2	193.8	250.0	311.3	374.0	446.6	519.9	598.4
52.5°	0.0	44.3	92.9	149.0	207.8	267.8	335.0	406.1	483.9	565.9	649.6
50°	0.0	46.8	99.2	158.5	221.3	287.0	358.0	437.7	521.0	610.7	703.3
47.5°	0.0	49.2	105.2	167.7	234.3	305.5	380.8	468.2	559.4	653.9	755.9
45°	0.0	51.5	111.1	177.1	246.9	323.3	406.0	497.6	596.4	699.4	806.6
42.5°	0.0	53.7	116.7	186.1	258.9	340.3	430.1	527.4	631.9	743.1	853.5
40°	0.0	55.8	122.0	194.7	271.1	356.6	453.1	557.0	666.9	784.9	898.2
37.5°	0.0	57.7	127.1	202.9	283.4	372.0	475.0	585.2	702.2	824.3	940.8
35°	0.0	59.6	131.8	210.5	295.1	388.3	495.7	611.8	735.6	860.5	981.3
32.5°	0.0	61.4	136.3	217.8	306.1	404.5	515.7	636.9	767.1	894.6	1019.5
30°	0.0	63.0	140.5	224.5	316.3	419.6	535.7	660.9	796.5	926.5	1055.2
27.5°	0.0	64.6	144.4	230.8	325.8	433.7	554.3	684.7	823.5	956.2	1088.5
25°	0.0	66.0	148.0	236.6	334.6	446.6	571.5	706.7	847.6	983.7	1119.2
22.5°	0.0	67.3	151.3	241.8	342.5	458.3	587.1	726.7	869.7	1008.7	1144.8
20°	0.0	68.4	154.2	246.6	349.7	468.9	601.1	744.7	889.6	1031.3	1167.9
17.5°	0.0	69.4	156.8	250.8	356.1	478.3	613.6	760.7	907.3	1051.4	1188.5
15°	0.0	70.3	159.1	254.4	361.6	486.5	624.5	774.7	922.7	1068.9	1206.5
12.5°	0.0	71.1	161.0	257.5	366.3	493.5	633.7	786.5	935.8	1083.8	1221.8
10°	0.0	71.7	162.6	260.1	370.2	499.2	641.3	796.3	946.5	1096.1	1234.4
7.5°	0.0	72.2	163.8	262.0	373.2	503.7	647.3	803.9	955.0	1105.6	1244.2
5°	0.0	72.5	164.7	263.5	375.4	506.8	651.5	809.3	961.0	1112.5	1251.3
2.5°	0.0	72.7	165.2	264.3	376.7	508.8	654.0	812.6	964.6	1116.6	1255.5
0°	0.0	72.8	165.4	264.6	377.1	509.4	654.9	813.7	965.8	1118.0	1256.9
-2.5°	0.0	72.7	165.2	264.3	376.7	508.8	654.0	812.6	964.6	1116.6	1255.5
-5°	0.0	72.5	164.7	263.5	375.4	506.8	651.5	809.3	961.0	1112.5	1251.3
-7.5°	0.0	72.2	163.8	262.0	373.2	503.7	647.3	803.9	955.0	1105.6	1244.2
-10°	0.0	71.7	162.6	260.1	370.2	499.2	641.3	796.3	946.5	1096.1	1234.4
-12.5°	0.0	71.1	161.0	257.5	366.3	493.5	633.7	786.5	935.8	1083.8	1221.8
-15°	0.0	70.3	159.1	254.4	361.6	486.5	624.5	774.7	922.7	1068.9	1206.5
-17.5°	0.0	69.4	156.8	250.8	356.1	478.3	613.6	760.7	907.3	1051.4	1188.5
-20°	0.0	68.4	154.2	246.6	349.7	468.9	601.1	744.7	889.6	1031.3	1167.9

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CATALOG NUMBER: EPH-VN-08-E-PRO-4000K-44

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	67.3	151.3	241.8	342.5	458.3	587.1	726.7	869.7	1008.7	1144.8
-25°	0.0	66.0	148.0	236.6	334.6	446.6	571.5	706.7	847.6	983.7	1119.2
-27.5°	0.0	64.6	144.4	230.8	325.8	433.7	554.3	684.7	823.5	956.2	1088.5
-30°	0.0	63.0	140.5	224.5	316.3	419.6	535.7	660.9	796.5	926.5	1055.2
-32.5°	0.0	61.4	136.3	217.8	306.1	404.5	515.7	636.9	767.1	894.6	1019.5
-35°	0.0	59.6	131.8	210.5	295.1	388.3	495.7	611.8	735.6	860.5	981.3
-37.5°	0.0	57.7	127.1	202.9	283.4	372.0	475.0	585.2	702.2	824.3	940.8
-40°	0.0	55.8	122.0	194.7	271.1	356.6	453.1	557.0	666.9	784.9	898.2
-42.5°	0.0	53.7	116.7	186.1	258.9	340.3	430.1	527.4	631.9	743.1	853.5
-45°	0.0	51.5	111.1	177.1	246.9	323.3	406.0	497.6	596.4	699.4	806.6
-47.5°	0.0	49.2	105.2	167.7	234.3	305.5	380.8	468.2	559.4	653.9	755.9
-50°	0.0	46.8	99.2	158.5	221.3	287.0	358.0	437.7	521.0	610.7	703.3
-52.5°	0.0	44.3	92.9	149.0	207.8	267.8	335.0	406.1	483.9	565.9	649.6
-55°	0.0	41.7	86.3	139.2	193.8	250.0	311.3	374.0	446.6	519.9	598.4
-57.5°	0.0	39.1	79.6	129.2	179.4	232.0	286.8	345.5	408.3	475.8	545.8
-60°	0.0	36.4	72.7	118.8	164.7	213.5	262.0	316.2	370.2	431.7	493.5
-62.5°	0.0	33.6	67.2	108.2	150.5	194.6	239.4	286.3	336.0	386.5	443.4
-65°	0.0	30.8	61.5	97.3	136.1	175.3	216.2	256.7	301.1	345.9	392.4
-67.5°	0.0	27.9	55.7	86.3	121.3	156.2	192.6	229.2	265.5	306.0	345.9
-70°	0.0	24.9	49.7	75.0	106.3	137.4	168.5	201.2	233.6	265.5	301.1
-72.5°	0.0	21.9	43.7	65.5	91.1	118.4	145.5	172.9	201.2	229.2	256.7
-75°	0.0	18.8	37.6	56.4	75.6	99.1	122.5	145.5	168.5	192.6	216.2
-77.5°	0.0	15.8	31.5	47.1	62.7	79.7	99.1	118.4	137.4	156.2	175.3
-80°	0.0	12.6	25.3	37.8	50.3	62.7	75.6	91.1	106.3	121.3	136.1
-82.5°	0.0	9.5	19.0	28.4	37.8	47.1	56.4	65.5	75.0	86.3	97.3
-85°	0.0	6.3	12.7	19.0	25.3	31.5	37.6	43.7	49.7	55.7	61.5
-87.5°	0.0	3.2	6.3	9.5	12.6	15.8	18.8	21.9	24.9	27.9	30.8
-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°	33.6	36.4	39.1	41.7	44.3	46.8	49.2	51.5	53.7	55.8	57.7
85°	67.2	72.7	79.6	86.3	92.9	99.2	105.2	111.1	116.7	122.0	127.1
82.5°	108.2	118.8	129.2	139.2	149.0	158.5	167.7	177.1	186.1	194.7	202.9
80°	150.5	164.7	179.4	193.8	207.8	221.3	234.3	246.9	258.9	271.1	283.4
77.5°	194.6	213.5	232.0	250.0	267.8	287.0	305.5	323.3	340.3	356.6	372.0
75°	239.4	262.0	286.8	311.3	335.0	358.0	380.8	406.0	430.1	453.1	475.0
72.5°	286.3	316.2	345.5	374.0	406.1	437.7	468.2	497.6	527.4	557.0	585.2
70°	336.0	370.2	408.3	446.6	483.9	521.0	559.4	596.4	631.9	666.9	702.2
67.5°	386.5	431.7	475.8	519.9	565.9	610.7	653.9	699.4	743.1	784.9	824.3
65°	443.4	493.5	545.8	598.4	649.6	703.3	755.9	806.6	853.5	898.2	940.8
62.5°	499.4	558.8	617.9	677.6	739.1	798.8	854.9	908.4	959.9	1009.3	1056.5
60°	558.8	624.5	692.0	760.7	827.1	889.6	950.1	1008.7	1065.1	1119.2	1166.4
57.5°	617.9	692.0	767.9	841.1	910.6	978.2	1044.0	1107.6	1164.5	1218.3	1270.4
55°	677.6	760.7	841.1	917.6	992.4	1065.3	1134.6	1197.3	1257.9	1318.9	1377.3
52.5°	739.1	827.1	910.6	992.4	1072.5	1147.8	1217.2	1285.8	1354.1	1419.8	1482.8
50°	798.8	889.6	978.2	1065.3	1147.8	1223.8	1299.9	1375.4	1448.4	1518.8	1579.5
47.5°	854.9	950.1	1044.0	1134.6	1217.2	1299.9	1382.5	1462.8	1540.7	1603.6	1662.8
45°	908.4	1008.7	1107.6	1197.3	1285.8	1375.4	1462.8	1548.0	1615.7	1682.1	1748.8
42.5°	959.9	1065.1	1164.5	1257.9	1354.1	1448.4	1540.7	1615.7	1688.6	1762.0	1839.2
40°	1009.3	1119.2	1218.3	1318.9	1419.8	1518.8	1603.6	1682.1	1762.0	1847.0	1934.0
37.5°	1056.5	1166.4	1270.4	1377.3	1482.8	1579.5	1662.8	1748.8	1839.2	1934.0	2026.0
35°	1101.2	1211.2	1321.7	1433.0	1542.9	1632.4	1722.5	1815.9	1918.1	2017.8	2121.9
32.5°	1141.3	1253.7	1370.2	1485.8	1590.5	1683.6	1779.5	1886.5	1993.5	2101.4	2226.6
30°	1177.5	1295.3	1415.9	1535.4	1634.5	1733.8	1839.9	1953.5	2065.2	2195.4	2340.9
27.5°	1211.2	1334.2	1458.5	1575.7	1676.3	1780.8	1898.5	2016.6	2144.0	2289.0	2456.8
25°	1242.4	1370.2	1498.0	1610.9	1716.6	1829.5	1953.2	2075.4	2221.6	2390.8	2591.6
22.5°	1271.6	1403.2	1534.2	1643.3	1753.8	1876.1	2003.5	2140.2	2300.4	2486.6	2723.7
20°	1298.6	1433.0	1563.5	1672.9	1787.4	1918.4	2049.4	2201.1	2380.7	2599.3	2873.1
17.5°	1322.6	1459.6	1587.3	1700.5	1821.4	1956.3	2092.0	2255.8	2452.9	2701.0	3021.3
15°	1343.6	1482.8	1608.2	1724.6	1852.0	1989.6	2136.4	2313.1	2527.5	2800.0	3154.8
12.5°	1361.5	1502.5	1626.1	1745.3	1878.1	2018.0	2174.4	2363.6	2598.9	2904.5	3332.9
10°	1376.2	1518.8	1640.8	1762.3	1899.6	2041.5	2205.8	2405.4	2658.1	2991.4	3481.2
7.5°	1387.7	1531.6	1652.2	1775.6	1916.5	2059.9	2230.5	2438.2	2704.7	3059.8	3598.2
5°	1395.9	1540.7	1660.5	1785.1	1928.6	2073.2	2248.2	2461.8	2738.2	3109.1	3682.7
2.5°	1400.8	1546.2	1665.4	1790.9	1935.9	2081.1	2258.9	2476.0	2758.4	3138.9	3733.8
0°	1402.5	1548.0	1667.1	1792.8	1938.3	2083.8	2262.5	2480.8	2765.2	3148.9	3750.9
-2.5°	1400.8	1546.2	1665.4	1790.9	1935.9	2081.1	2258.9	2476.0	2758.4	3138.9	3733.8
-5°	1395.9	1540.7	1660.5	1785.1	1928.6	2073.2	2248.2	2461.8	2738.2	3109.1	3682.7
-7.5°	1387.7	1531.6	1652.2	1775.6	1916.5	2059.9	2230.5	2438.2	2704.7	3059.8	3598.2
-10°	1376.2	1518.8	1640.8	1762.3	1899.6	2041.5	2205.8	2405.4	2658.1	2991.4	3481.2
-12.5°	1361.5	1502.5	1626.1	1745.3	1878.1	2018.0	2174.4	2363.6	2598.9	2904.5	3332.9
-15°	1343.6	1482.8	1608.2	1724.6	1852.0	1989.6	2136.4	2313.1	2527.5	2800.0	3154.8
-17.5°	1322.6	1459.6	1587.3	1700.5	1821.4	1956.3	2092.0	2255.8	2452.9	2701.0	3021.3
-20°	1298.6	1433.0	1563.5	1672.9	1787.4	1918.4	2049.4	2201.1	2380.7	2599.3	2873.1

Classified

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

Scaled Data Report



REPORT NUMBER: P624793 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-E-PRO-4000K-44

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1271.6	1403.2	1534.2	1643.3	1753.8	1876.1	2003.5	2140.2	2300.4	2486.6	2723.7
-25°	1242.4	1370.2	1498.0	1610.9	1716.6	1829.5	1953.2	2075.4	2221.6	2390.8	2591.6
-27.5°	1211.2	1334.2	1458.5	1575.7	1676.3	1780.8	1898.5	2016.6	2144.0	2289.0	2456.8
-30°	1177.5	1295.3	1415.9	1535.4	1634.5	1733.8	1839.9	1953.5	2065.2	2195.4	2340.9
-32.5°	1141.3	1253.7	1370.2	1485.8	1590.5	1683.6	1779.5	1886.5	1993.5	2101.4	2226.6
-35°	1101.2	1211.2	1321.7	1433.0	1542.9	1632.4	1722.5	1815.9	1918.1	2017.8	2121.9
-37.5°	1056.5	1166.4	1270.4	1377.3	1482.8	1579.5	1662.8	1748.8	1839.2	1934.0	2026.0
-40°	1009.3	1119.2	1218.3	1318.9	1419.8	1518.8	1603.6	1682.1	1762.0	1847.0	1934.0
-42.5°	959.9	1065.1	1164.5	1257.9	1354.1	1448.4	1540.7	1615.7	1688.6	1762.0	1839.2
-45°	908.4	1008.7	1107.6	1197.3	1285.8	1375.4	1462.8	1548.0	1615.7	1682.1	1748.8
-47.5°	854.9	950.1	1044.0	1134.6	1217.2	1299.9	1382.5	1462.8	1540.7	1603.6	1662.8
-50°	798.8	889.6	978.2	1065.3	1147.8	1223.8	1299.9	1375.4	1448.4	1518.8	1579.5
-52.5°	739.1	827.1	910.6	992.4	1072.5	1147.8	1217.2	1285.8	1354.1	1419.8	1482.8
-55°	677.6	760.7	841.1	917.6	992.4	1065.3	1134.6	1197.3	1257.9	1318.9	1377.3
-57.5°	617.9	692.0	767.9	841.1	910.6	978.2	1044.0	1107.6	1164.5	1218.3	1270.4
-60°	558.8	624.5	692.0	760.7	827.1	889.6	950.1	1008.7	1065.1	1119.2	1166.4
-62.5°	499.4	558.8	617.9	677.6	739.1	798.8	854.9	908.4	959.9	1009.3	1056.5
-65°	443.4	493.5	545.8	598.4	649.6	703.3	755.9	806.6	853.5	898.2	940.8
-67.5°	386.5	431.7	475.8	519.9	565.9	610.7	653.9	699.4	743.1	784.9	824.3
-70°	336.0	370.2	408.3	446.6	483.9	521.0	559.4	596.4	631.9	666.9	702.2
-72.5°	286.3	316.2	345.5	374.0	406.1	437.7	468.2	497.6	527.4	557.0	585.2
-75°	239.4	262.0	286.8	311.3	335.0	358.0	380.8	406.0	430.1	453.1	475.0
-77.5°	194.6	213.5	232.0	250.0	267.8	287.0	305.5	323.3	340.3	356.6	372.0
-80°	150.5	164.7	179.4	193.8	207.8	221.3	234.3	246.9	258.9	271.1	283.4
-82.5°	108.2	118.8	129.2	139.2	149.0	158.5	167.7	177.1	186.1	194.7	202.9
-85°	67.2	72.7	79.6	86.3	92.9	99.2	105.2	111.1	116.7	122.0	127.1
-87.5°	33.6	36.4	39.1	41.7	44.3	46.8	49.2	51.5	53.7	55.8	57.7
-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: P624793 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-E-PRO-4000K-44

**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°	59.6	61.4	63.0	64.6	66.0	67.3	68.4	69.4	70.3	71.1	71.7
85°	131.8	136.3	140.5	144.4	148.0	151.3	154.2	156.8	159.1	161.0	162.6
82.5°	210.5	217.8	224.5	230.8	236.6	241.8	246.6	250.8	254.4	257.5	260.1
80°	295.1	306.1	316.3	325.8	334.6	342.5	349.7	356.1	361.6	366.3	370.2
77.5°	388.3	404.5	419.6	433.7	446.6	458.3	468.9	478.3	486.5	493.5	499.2
75°	495.7	515.7	535.7	554.3	571.5	587.1	601.1	613.6	624.5	633.7	641.3
72.5°	611.8	636.9	660.9	684.7	706.7	726.7	744.7	760.7	774.7	786.5	796.3
70°	735.6	767.1	796.5	823.5	847.6	869.7	889.6	907.3	922.7	935.8	946.5
67.5°	860.5	894.6	926.5	956.2	983.7	1008.7	1031.3	1051.4	1068.9	1083.8	1096.1
65°	981.3	1019.5	1055.2	1088.5	1119.2	1144.8	1167.9	1188.5	1206.5	1221.8	1234.4
62.5°	1101.2	1141.3	1177.5	1211.2	1242.4	1271.6	1298.6	1322.6	1343.6	1361.5	1376.2
60°	1211.2	1253.7	1295.3	1334.2	1370.2	1403.2	1433.0	1459.6	1482.8	1502.5	1518.8
57.5°	1321.7	1370.2	1415.9	1458.5	1498.0	1534.2	1563.5	1587.3	1608.2	1626.1	1640.8
55°	1433.0	1485.8	1535.4	1575.7	1610.9	1643.3	1672.9	1700.5	1724.6	1745.3	1762.3
52.5°	1542.9	1590.5	1634.5	1676.3	1716.6	1753.8	1787.4	1821.4	1852.0	1878.1	1899.6
50°	1632.4	1683.6	1733.8	1780.8	1829.5	1876.1	1918.4	1956.3	1989.6	2018.0	2041.5
47.5°	1722.5	1779.5	1839.9	1898.5	1953.2	2003.5	2049.4	2092.0	2136.4	2174.4	2205.8
45°	1815.9	1886.5	1953.5	2016.6	2075.4	2140.2	2201.1	2255.8	2313.1	2363.6	2405.4
42.5°	1918.1	1993.5	2065.2	2144.0	2221.6	2300.4	2380.7	2452.9	2527.5	2598.9	2658.1
40°	2017.8	2101.4	2195.4	2289.0	2390.8	2486.6	2599.3	2701.0	2800.0	2904.5	2991.4
37.5°	2121.9	2226.6	2340.9	2456.8	2591.6	2723.7	2873.1	3021.3	3154.8	3332.9	3481.2
35°	2237.1	2367.2	2502.0	2663.0	2832.2	3023.5	3228.7	3479.8	3703.1	3989.4	4253.8
32.5°	2367.2	2519.7	2699.2	2907.3	3126.1	3434.6	3732.2	4164.2	4560.4	5035.7	5548.8
30°	2502.0	2699.2	2932.6	3194.7	3560.7	4003.2	4527.1	5216.4	5980.6	6795.4	7881.1
27.5°	2663.0	2907.3	3194.7	3603.1	4147.0	4760.4	5761.7	6862.5	8468.4	9877.0	12105.6
25°	2832.2	3126.1	3560.7	4147.0	4894.1	6039.6	7700.1	9625.2	12674.8	15565.8	18865.5
22.5°	3023.5	3434.6	4003.2	4760.4	6039.6	7983.3	10509.8	14413.3	18798.6	23476.9	27873.0
20°	3228.7	3732.2	4527.1	5761.7	7700.1	10509.8	15003.0	20630.4	26510.5	32755.3	38344.3
17.5°	3479.8	4164.2	5216.4	6862.5	9625.2	14413.3	20630.4	27704.1	35286.5	43093.9	50206.6
15°	3703.1	4560.4	5980.6	8468.4	12674.8	18798.6	26510.5	35286.5	44722.9	54677.8	65180.1
12.5°	3989.4	5035.7	6795.4	9877.0	15565.8	23476.9	32755.3	43093.9	54677.8	67730.9	84340.3
10°	4253.8	5548.8	7881.1	12105.6	18865.5	27873.0	38344.3	50206.6	65180.1	84340.3	104801.8
7.5°	4462.9	5955.7	8745.2	13891.1	21780.3	31809.5	43556.9	57823.9	76387.3	99568.6	124108.8
5°	4614.3	6250.8	9373.6	15194.0	23916.8	34711.6	47429.5	63644.2	86032.5	112617.0	137199.9
2.5°	4705.9	6429.7	9755.3	15987.4	25221.9	36492.0	49819.1	67265.1	92105.4	120985.0	145849.4
0°	4736.6	6489.7	9883.3	16253.9	25661.0	37092.3	50627.4	68495.4	94182.9	123879.2	148898.5
-2.5°	4705.9	6429.7	9755.3	15987.4	25221.9	36492.0	49819.1	67265.1	92105.4	120985.0	145849.4
-5°	4614.3	6250.8	9373.6	15194.0	23916.8	34711.6	47429.5	63644.2	86032.5	112617.0	137199.9
-7.5°	4462.9	5955.7	8745.2	13891.1	21780.3	31809.5	43556.9	57823.9	76387.3	99568.6	124108.8
-10°	4253.8	5548.8	7881.1	12105.6	18865.5	27873.0	38344.3	50206.6	65180.1	84340.3	104801.8
-12.5°	3989.4	5035.7	6795.4	9877.0	15565.8	23476.9	32755.3	43093.9	54677.8	67730.9	84340.3
-15°	3703.1	4560.4	5980.6	8468.4	12674.8	18798.6	26510.5	35286.5	44722.9	54677.8	65180.1
-17.5°	3479.8	4164.2	5216.4	6862.5	9625.2	14413.3	20630.4	27704.1	35286.5	43093.9	50206.6
-20°	3228.7	3732.2	4527.1	5761.7	7700.1	10509.8	15003.0	20630.4	26510.5	32755.3	38344.3



REPORT NUMBER: P624793 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-E-PRO-4000K-44

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3023.5	3434.6	4003.2	4760.4	6039.6	7983.3	10509.8	14413.3	18798.6	23476.9	27873.0
-25°	2832.2	3126.1	3560.7	4147.0	4894.1	6039.6	7700.1	9625.2	12674.8	15565.8	18865.5
-27.5°	2663.0	2907.3	3194.7	3603.1	4147.0	4760.4	5761.7	6862.5	8468.4	9877.0	12105.6
-30°	2502.0	2699.2	2932.6	3194.7	3560.7	4003.2	4527.1	5216.4	5980.6	6795.4	7881.1
-32.5°	2367.2	2519.7	2699.2	2907.3	3126.1	3434.6	3732.2	4164.2	4560.4	5035.7	5548.8
-35°	2237.1	2367.2	2502.0	2663.0	2832.2	3023.5	3228.7	3479.8	3703.1	3989.4	4253.8
-37.5°	2121.9	2226.6	2340.9	2456.8	2591.6	2723.7	2873.1	3021.3	3154.8	3332.9	3481.2
-40°	2017.8	2101.4	2195.4	2289.0	2390.8	2486.6	2599.3	2701.0	2800.0	2904.5	2991.4
-42.5°	1918.1	1993.5	2065.2	2144.0	2221.6	2300.4	2380.7	2452.9	2527.5	2598.9	2658.1
-45°	1815.9	1886.5	1953.5	2016.6	2075.4	2140.2	2201.1	2255.8	2313.1	2363.6	2405.4
-47.5°	1722.5	1779.5	1839.9	1898.5	1953.2	2003.5	2049.4	2092.0	2136.4	2174.4	2205.8
-50°	1632.4	1683.6	1733.8	1780.8	1829.5	1876.1	1918.4	1956.3	1989.6	2018.0	2041.5
-52.5°	1542.9	1590.5	1634.5	1676.3	1716.6	1753.8	1787.4	1821.4	1852.0	1878.1	1899.6
-55°	1433.0	1485.8	1535.4	1575.7	1610.9	1643.3	1672.9	1700.5	1724.6	1745.3	1762.3
-57.5°	1321.7	1370.2	1415.9	1458.5	1498.0	1534.2	1563.5	1587.3	1608.2	1626.1	1640.8
-60°	1211.2	1253.7	1295.3	1334.2	1370.2	1403.2	1433.0	1459.6	1482.8	1502.5	1518.8
-62.5°	1101.2	1141.3	1177.5	1211.2	1242.4	1271.6	1298.6	1322.6	1343.6	1361.5	1376.2
-65°	981.3	1019.5	1055.2	1088.5	1119.2	1144.8	1167.9	1188.5	1206.5	1221.8	1234.4
-67.5°	860.5	894.6	926.5	956.2	983.7	1008.7	1031.3	1051.4	1068.9	1083.8	1096.1
-70°	735.6	767.1	796.5	823.5	847.6	869.7	889.6	907.3	922.7	935.8	946.5
-72.5°	611.8	636.9	660.9	684.7	706.7	726.7	744.7	760.7	774.7	786.5	796.3
-75°	495.7	515.7	535.7	554.3	571.5	587.1	601.1	613.6	624.5	633.7	641.3
-77.5°	388.3	404.5	419.6	433.7	446.6	458.3	468.9	478.3	486.5	493.5	499.2
-80°	295.1	306.1	316.3	325.8	334.6	342.5	349.7	356.1	361.6	366.3	370.2
-82.5°	210.5	217.8	224.5	230.8	236.6	241.8	246.6	250.8	254.4	257.5	260.1
-85°	131.8	136.3	140.5	144.4	148.0	151.3	154.2	156.8	159.1	161.0	162.6
-87.5°	59.6	61.4	63.0	64.6	66.0	67.3	68.4	69.4	70.3	71.1	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: P624793 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-E-PRO-4000K-44

**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°	72.2	72.5	72.7	72.8	72.7	72.5	72.2	71.7	71.1	70.3	69.4
85°	163.8	164.7	165.2	165.4	165.2	164.7	163.8	162.6	161.0	159.1	156.8
82.5°	262.0	263.5	264.3	264.6	264.3	263.5	262.0	260.1	257.5	254.4	250.8
80°	373.2	375.4	376.7	377.1	376.7	375.4	373.2	370.2	366.3	361.6	356.1
77.5°	503.7	506.8	508.8	509.4	508.8	506.8	503.7	499.2	493.5	486.5	478.3
75°	647.3	651.5	654.0	654.9	654.0	651.5	647.3	641.3	633.7	624.5	613.6
72.5°	803.9	809.3	812.6	813.7	812.6	809.3	803.9	796.3	786.5	774.7	760.7
70°	955.0	961.0	964.6	965.8	964.6	961.0	955.0	946.5	935.8	922.7	907.3
67.5°	1105.6	1112.5	1116.6	1118.0	1116.6	1112.5	1105.6	1096.1	1083.8	1068.9	1051.4
65°	1244.2	1251.3	1255.5	1256.9	1255.5	1251.3	1244.2	1234.4	1221.8	1206.5	1188.5
62.5°	1387.7	1395.9	1400.8	1402.5	1400.8	1395.9	1387.7	1376.2	1361.5	1343.6	1322.6
60°	1531.6	1540.7	1546.2	1548.0	1546.2	1540.7	1531.6	1518.8	1502.5	1482.8	1459.6
57.5°	1652.2	1660.5	1665.4	1667.1	1665.4	1660.5	1652.2	1640.8	1626.1	1608.2	1587.3
55°	1775.6	1785.1	1790.9	1792.8	1790.9	1785.1	1775.6	1762.3	1745.3	1724.6	1700.5
52.5°	1916.5	1928.6	1935.9	1938.3	1935.9	1928.6	1916.5	1899.6	1878.1	1852.0	1821.4
50°	2059.9	2073.2	2081.1	2083.8	2081.1	2073.2	2059.9	2041.5	2018.0	1989.6	1956.3
47.5°	2230.5	2248.2	2258.9	2262.5	2258.9	2248.2	2230.5	2205.8	2174.4	2136.4	2092.0
45°	2438.2	2461.8	2476.0	2480.8	2476.0	2461.8	2438.2	2405.4	2363.6	2313.1	2255.8
42.5°	2704.7	2738.2	2758.4	2765.2	2758.4	2738.2	2704.7	2658.1	2598.9	2527.5	2452.9
40°	3059.8	3109.1	3138.9	3148.9	3138.9	3109.1	3059.8	2991.4	2904.5	2800.0	2701.0
37.5°	3598.2	3682.7	3733.8	3750.9	3733.8	3682.7	3598.2	3481.2	3332.9	3154.8	3021.3
35°	4462.9	4614.3	4705.9	4736.6	4705.9	4614.3	4462.9	4253.8	3989.4	3703.1	3479.8
32.5°	5955.7	6250.8	6429.7	6489.7	6429.7	6250.8	5955.7	5548.8	5035.7	4560.4	4164.2
30°	8745.2	9373.6	9755.3	9883.3	9755.3	9373.6	8745.2	7881.1	6795.4	5980.6	5216.4
27.5°	13891.1	15194.0	15987.4	16253.9	15987.4	15194.0	13891.1	12105.6	9877.0	8468.4	6862.5
25°	21780.3	23916.8	25221.9	25661.0	25221.9	23916.8	21780.3	18865.5	15565.8	12674.8	9625.2
22.5°	31809.5	34711.6	36492.0	37092.3	36492.0	34711.6	31809.5	27873.0	23476.9	18798.6	14413.3
20°	43556.9	47429.5	49819.1	50627.4	49819.1	47429.5	43556.9	38344.3	32755.3	26510.5	20630.4
17.5°	57823.9	63644.2	67265.1	68495.4	67265.1	63644.2	57823.9	50206.6	43093.9	35286.5	27704.1
15°	76387.3	86032.5	92105.4	94182.9	92105.4	86032.5	76387.3	65180.1	54677.8	44722.9	35286.5
12.5°	99568.6	112617.0	120985.0	123879.2	120985.0	112617.0	99568.6	84340.3	67730.9	54677.8	43093.9
10°	124108.8	137199.9	145849.4	148898.5	145849.4	137199.9	124108.8	104801.8	84340.3	65180.1	50206.6
7.5°	142979.8	157302.7	166623.8	170034.6	166623.8	157302.7	142979.8	124108.8	99568.6	76387.3	57823.9
5°	157302.7	173217.3	184069.0	188392.2	184069.0	173217.3	157302.7	137199.9	112617.0	86032.5	63644.2
2.5°	166623.8	184069.0	195579.6	200657.1	195579.6	184069.0	166623.8	145849.4	120985.0	92105.4	67265.1
0°	170034.6	188392.2	200657.1	205168.8	200657.1	188392.2	170034.6	148898.5	123879.2	94182.9	68495.4
-2.5°	166623.8	184069.0	195579.6	200657.1	195579.6	184069.0	166623.8	145849.4	120985.0	92105.4	67265.1
-5°	157302.7	173217.3	184069.0	188392.2	184069.0	173217.3	157302.7	137199.9	112617.0	86032.5	63644.2
-7.5°	142979.8	157302.7	166623.8	170034.6	166623.8	157302.7	142979.8	124108.8	99568.6	76387.3	57823.9
-10°	124108.8	137199.9	145849.4	148898.5	145849.4	137199.9	124108.8	104801.8	84340.3	65180.1	50206.6
-12.5°	99568.6	112617.0	120985.0	123879.2	120985.0	112617.0	99568.6	84340.3	67730.9	54677.8	43093.9
-15°	76387.3	86032.5	92105.4	94182.9	92105.4	86032.5	76387.3	65180.1	54677.8	44722.9	35286.5
-17.5°	57823.9	63644.2	67265.1	68495.4	67265.1	63644.2	57823.9	50206.6	43093.9	35286.5	27704.1
-20°	43556.9	47429.5	49819.1	50627.4	49819.1	47429.5	43556.9	38344.3	32755.3	26510.5	20630.4



REPORT NUMBER: P624793 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-E-PRO-4000K-44

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	31809.5	34711.6	36492.0	37092.3	36492.0	34711.6	31809.5	27873.0	23476.9	18798.6	14413.3
-25°	21780.3	23916.8	25221.9	25661.0	25221.9	23916.8	21780.3	18865.5	15565.8	12674.8	9625.2
-27.5°	13891.1	15194.0	15987.4	16253.9	15987.4	15194.0	13891.1	12105.6	9877.0	8468.4	6862.5
-30°	8745.2	9373.6	9755.3	9883.3	9755.3	9373.6	8745.2	7881.1	6795.4	5980.6	5216.4
-32.5°	5955.7	6250.8	6429.7	6489.7	6429.7	6250.8	5955.7	5548.8	5035.7	4560.4	4164.2
-35°	4462.9	4614.3	4705.9	4736.6	4705.9	4614.3	4462.9	4253.8	3989.4	3703.1	3479.8
-37.5°	3598.2	3682.7	3733.8	3750.9	3733.8	3682.7	3598.2	3481.2	3332.9	3154.8	3021.3
-40°	3059.8	3109.1	3138.9	3148.9	3138.9	3109.1	3059.8	2991.4	2904.5	2800.0	2701.0
-42.5°	2704.7	2738.2	2758.4	2765.2	2758.4	2738.2	2704.7	2658.1	2598.9	2527.5	2452.9
-45°	2438.2	2461.8	2476.0	2480.8	2476.0	2461.8	2438.2	2405.4	2363.6	2313.1	2255.8
-47.5°	2230.5	2248.2	2258.9	2262.5	2258.9	2248.2	2230.5	2205.8	2174.4	2136.4	2092.0
-50°	2059.9	2073.2	2081.1	2083.8	2081.1	2073.2	2059.9	2041.5	2018.0	1989.6	1956.3
-52.5°	1916.5	1928.6	1935.9	1938.3	1935.9	1928.6	1916.5	1899.6	1878.1	1852.0	1821.4
-55°	1775.6	1785.1	1790.9	1792.8	1790.9	1785.1	1775.6	1762.3	1745.3	1724.6	1700.5
-57.5°	1652.2	1660.5	1665.4	1667.1	1665.4	1660.5	1652.2	1640.8	1626.1	1608.2	1587.3
-60°	1531.6	1540.7	1546.2	1548.0	1546.2	1540.7	1531.6	1518.8	1502.5	1482.8	1459.6
-62.5°	1387.7	1395.9	1400.8	1402.5	1400.8	1395.9	1387.7	1376.2	1361.5	1343.6	1322.6
-65°	1244.2	1251.3	1255.5	1256.9	1255.5	1251.3	1244.2	1234.4	1221.8	1206.5	1188.5
-67.5°	1105.6	1112.5	1116.6	1118.0	1116.6	1112.5	1105.6	1096.1	1083.8	1068.9	1051.4
-70°	955.0	961.0	964.6	965.8	964.6	961.0	955.0	946.5	935.8	922.7	907.3
-72.5°	803.9	809.3	812.6	813.7	812.6	809.3	803.9	796.3	786.5	774.7	760.7
-75°	647.3	651.5	654.0	654.9	654.0	651.5	647.3	641.3	633.7	624.5	613.6
-77.5°	503.7	506.8	508.8	509.4	508.8	506.8	503.7	499.2	493.5	486.5	478.3
-80°	373.2	375.4	376.7	377.1	376.7	375.4	373.2	370.2	366.3	361.6	356.1
-82.5°	262.0	263.5	264.3	264.6	264.3	263.5	262.0	260.1	257.5	254.4	250.8
-85°	163.8	164.7	165.2	165.4	165.2	164.7	163.8	162.6	161.0	159.1	156.8
-87.5°	72.2	72.5	72.7	72.8	72.7	72.5	72.2	71.7	71.1	70.3	69.4
-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: P624793 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-E-PRO-4000K-44

**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°	68.4	67.3	66.0	64.6	63.0	61.4	59.6	57.7	55.8	53.7	51.5
85°	154.2	151.3	148.0	144.4	140.5	136.3	131.8	127.1	122.0	116.7	111.1
82.5°	246.6	241.8	236.6	230.8	224.5	217.8	210.5	202.9	194.7	186.1	177.1
80°	349.7	342.5	334.6	325.8	316.3	306.1	295.1	283.4	271.1	258.9	246.9
77.5°	468.9	458.3	446.6	433.7	419.6	404.5	388.3	372.0	356.6	340.3	323.3
75°	601.1	587.1	571.5	554.3	535.7	515.7	495.7	475.0	453.1	430.1	406.0
72.5°	744.7	726.7	706.7	684.7	660.9	636.9	611.8	585.2	557.0	527.4	497.6
70°	889.6	869.7	847.6	823.5	796.5	767.1	735.6	702.2	666.9	631.9	596.4
67.5°	1031.3	1008.7	983.7	956.2	926.5	894.6	860.5	824.3	784.9	743.1	699.4
65°	1167.9	1144.8	1119.2	1088.5	1055.2	1019.5	981.3	940.8	898.2	853.5	806.6
62.5°	1298.6	1271.6	1242.4	1211.2	1177.5	1141.3	1101.2	1056.5	1009.3	959.9	908.4
60°	1433.0	1403.2	1370.2	1334.2	1295.3	1253.7	1211.2	1166.4	1119.2	1065.1	1008.7
57.5°	1563.5	1534.2	1498.0	1458.5	1415.9	1370.2	1321.7	1270.4	1218.3	1164.5	1107.6
55°	1672.9	1643.3	1610.9	1575.7	1535.4	1485.8	1433.0	1377.3	1318.9	1257.9	1197.3
52.5°	1787.4	1753.8	1716.6	1676.3	1634.5	1590.5	1542.9	1482.8	1419.8	1354.1	1285.8
50°	1918.4	1876.1	1829.5	1780.8	1733.8	1683.6	1632.4	1579.5	1518.8	1448.4	1375.4
47.5°	2049.4	2003.5	1953.2	1898.5	1839.9	1779.5	1722.5	1662.8	1603.6	1540.7	1462.8
45°	2201.1	2140.2	2075.4	2016.6	1953.5	1886.5	1815.9	1748.8	1682.1	1615.7	1548.0
42.5°	2380.7	2300.4	2221.6	2144.0	2065.2	1993.5	1918.1	1839.2	1762.0	1688.6	1615.7
40°	2599.3	2486.6	2390.8	2289.0	2195.4	2101.4	2017.8	1934.0	1847.0	1762.0	1682.1
37.5°	2873.1	2723.7	2591.6	2456.8	2340.9	2226.6	2121.9	2026.0	1934.0	1839.2	1748.8
35°	3228.7	3023.5	2832.2	2663.0	2502.0	2367.2	2237.1	2121.9	2017.8	1918.1	1815.9
32.5°	3732.2	3434.6	3126.1	2907.3	2699.2	2519.7	2367.2	2226.6	2101.4	1993.5	1886.5
30°	4527.1	4003.2	3560.7	3194.7	2932.6	2699.2	2502.0	2340.9	2195.4	2065.2	1953.5
27.5°	5761.7	4760.4	4147.0	3603.1	3194.7	2907.3	2663.0	2456.8	2289.0	2144.0	2016.6
25°	7700.1	6039.6	4894.1	4147.0	3560.7	3126.1	2832.2	2591.6	2390.8	2221.6	2075.4
22.5°	10509.8	7983.3	6039.6	4760.4	4003.2	3434.6	3023.5	2723.7	2486.6	2300.4	2140.2
20°	15003.0	10509.8	7700.1	5761.7	4527.1	3732.2	3228.7	2873.1	2599.3	2380.7	2201.1
17.5°	20630.4	14413.3	9625.2	6862.5	5216.4	4164.2	3479.8	3021.3	2701.0	2452.9	2255.8
15°	26510.5	18798.6	12674.8	8468.4	5980.6	4560.4	3703.1	3154.8	2800.0	2527.5	2313.1
12.5°	32755.3	23476.9	15565.8	9877.0	6795.4	5035.7	3989.4	3332.9	2904.5	2598.9	2363.6
10°	38344.3	27873.0	18865.5	12105.6	7881.1	5548.8	4253.8	3481.2	2991.4	2658.1	2405.4
7.5°	43556.9	31809.5	21780.3	13891.1	8745.2	5955.7	4462.9	3598.2	3059.8	2704.7	2438.2
5°	47429.5	34711.6	23916.8	15194.0	9373.6	6250.8	4614.3	3682.7	3109.1	2738.2	2461.8
2.5°	49819.1	36492.0	25221.9	15987.4	9755.3	6429.7	4705.9	3733.8	3138.9	2758.4	2476.0
0°	50627.4	37092.3	25661.0	16253.9	9883.3	6489.7	4736.6	3750.9	3148.9	2765.2	2480.8
-2.5°	49819.1	36492.0	25221.9	15987.4	9755.3	6429.7	4705.9	3733.8	3138.9	2758.4	2476.0
-5°	47429.5	34711.6	23916.8	15194.0	9373.6	6250.8	4614.3	3682.7	3109.1	2738.2	2461.8
-7.5°	43556.9	31809.5	21780.3	13891.1	8745.2	5955.7	4462.9	3598.2	3059.8	2704.7	2438.2
-10°	38344.3	27873.0	18865.5	12105.6	7881.1	5548.8	4253.8	3481.2	2991.4	2658.1	2405.4
-12.5°	32755.3	23476.9	15565.8	9877.0	6795.4	5035.7	3989.4	3332.9	2904.5	2598.9	2363.6
-15°	26510.5	18798.6	12674.8	8468.4	5980.6	4560.4	3703.1	3154.8	2800.0	2527.5	2313.1
-17.5°	20630.4	14413.3	9625.2	6862.5	5216.4	4164.2	3479.8	3021.3	2701.0	2452.9	2255.8
-20°	15003.0	10509.8	7700.1	5761.7	4527.1	3732.2	3228.7	2873.1	2599.3	2380.7	2201.1

Classified

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

Scaled Data Report



REPORT NUMBER: P624793 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-E-PRO-4000K-44

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	10509.8	7983.3	6039.6	4760.4	4003.2	3434.6	3023.5	2723.7	2486.6	2300.4	2140.2
-25°	7700.1	6039.6	4894.1	4147.0	3560.7	3126.1	2832.2	2591.6	2390.8	2221.6	2075.4
-27.5°	5761.7	4760.4	4147.0	3603.1	3194.7	2907.3	2663.0	2456.8	2289.0	2144.0	2016.6
-30°	4527.1	4003.2	3560.7	3194.7	2932.6	2699.2	2502.0	2340.9	2195.4	2065.2	1953.5
-32.5°	3732.2	3434.6	3126.1	2907.3	2699.2	2519.7	2367.2	2226.6	2101.4	1993.5	1886.5
-35°	3228.7	3023.5	2832.2	2663.0	2502.0	2367.2	2237.1	2121.9	2017.8	1918.1	1815.9
-37.5°	2873.1	2723.7	2591.6	2456.8	2340.9	2226.6	2121.9	2026.0	1934.0	1839.2	1748.8
-40°	2599.3	2486.6	2390.8	2289.0	2195.4	2101.4	2017.8	1934.0	1847.0	1762.0	1682.1
-42.5°	2380.7	2300.4	2221.6	2144.0	2065.2	1993.5	1918.1	1839.2	1762.0	1688.6	1615.7
-45°	2201.1	2140.2	2075.4	2016.6	1953.5	1886.5	1815.9	1748.8	1682.1	1615.7	1548.0
-47.5°	2049.4	2003.5	1953.2	1898.5	1839.9	1779.5	1722.5	1662.8	1603.6	1540.7	1462.8
-50°	1918.4	1876.1	1829.5	1780.8	1733.8	1683.6	1632.4	1579.5	1518.8	1448.4	1375.4
-52.5°	1787.4	1753.8	1716.6	1676.3	1634.5	1590.5	1542.9	1482.8	1419.8	1354.1	1285.8
-55°	1672.9	1643.3	1610.9	1575.7	1535.4	1485.8	1433.0	1377.3	1318.9	1257.9	1197.3
-57.5°	1563.5	1534.2	1498.0	1458.5	1415.9	1370.2	1321.7	1270.4	1218.3	1164.5	1107.6
-60°	1433.0	1403.2	1370.2	1334.2	1295.3	1253.7	1211.2	1166.4	1119.2	1065.1	1008.7
-62.5°	1298.6	1271.6	1242.4	1211.2	1177.5	1141.3	1101.2	1056.5	1009.3	959.9	908.4
-65°	1167.9	1144.8	1119.2	1088.5	1055.2	1019.5	981.3	940.8	898.2	853.5	806.6
-67.5°	1031.3	1008.7	983.7	956.2	926.5	894.6	860.5	824.3	784.9	743.1	699.4
-70°	889.6	869.7	847.6	823.5	796.5	767.1	735.6	702.2	666.9	631.9	596.4
-72.5°	744.7	726.7	706.7	684.7	660.9	636.9	611.8	585.2	557.0	527.4	497.6
-75°	601.1	587.1	571.5	554.3	535.7	515.7	495.7	475.0	453.1	430.1	406.0
-77.5°	468.9	458.3	446.6	433.7	419.6	404.5	388.3	372.0	356.6	340.3	323.3
-80°	349.7	342.5	334.6	325.8	316.3	306.1	295.1	283.4	271.1	258.9	246.9
-82.5°	246.6	241.8	236.6	230.8	224.5	217.8	210.5	202.9	194.7	186.1	177.1
-85°	154.2	151.3	148.0	144.4	140.5	136.3	131.8	127.1	122.0	116.7	111.1
-87.5°	68.4	67.3	66.0	64.6	63.0	61.4	59.6	57.7	55.8	53.7	51.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





REPORT NUMBER: P624793 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-E-PRO-4000K-44

**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°	49.2	46.8	44.3	41.7	39.1	36.4	33.6	30.8	27.9	24.9	21.9
85°	105.2	99.2	92.9	86.3	79.6	72.7	67.2	61.5	55.7	49.7	43.7
82.5°	167.7	158.5	149.0	139.2	129.2	118.8	108.2	97.3	86.3	75.0	65.5
80°	234.3	221.3	207.8	193.8	179.4	164.7	150.5	136.1	121.3	106.3	91.1
77.5°	305.5	287.0	267.8	250.0	232.0	213.5	194.6	175.3	156.2	137.4	118.4
75°	380.8	358.0	335.0	311.3	286.8	262.0	239.4	216.2	192.6	168.5	145.5
72.5°	468.2	437.7	406.1	374.0	345.5	316.2	286.3	256.7	229.2	201.2	172.9
70°	559.4	521.0	483.9	446.6	408.3	370.2	336.0	301.1	265.5	233.6	201.2
67.5°	653.9	610.7	565.9	519.9	475.8	431.7	386.5	345.9	306.0	265.5	229.2
65°	755.9	703.3	649.6	598.4	545.8	493.5	443.4	392.4	345.9	301.1	256.7
62.5°	854.9	798.8	739.1	677.6	617.9	558.8	499.4	443.4	386.5	336.0	286.3
60°	950.1	889.6	827.1	760.7	692.0	624.5	558.8	493.5	431.7	370.2	316.2
57.5°	1044.0	978.2	910.6	841.1	767.9	692.0	617.9	545.8	475.8	408.3	345.5
55°	1134.6	1065.3	992.4	917.6	841.1	760.7	677.6	598.4	519.9	446.6	374.0
52.5°	1217.2	1147.8	1072.5	992.4	910.6	827.1	739.1	649.6	565.9	483.9	406.1
50°	1299.9	1223.8	1147.8	1065.3	978.2	889.6	798.8	703.3	610.7	521.0	437.7
47.5°	1382.5	1299.9	1217.2	1134.6	1044.0	950.1	854.9	755.9	653.9	559.4	468.2
45°	1462.8	1375.4	1285.8	1197.3	1107.6	1008.7	908.4	806.6	699.4	596.4	497.6
42.5°	1540.7	1448.4	1354.1	1257.9	1164.5	1065.1	959.9	853.5	743.1	631.9	527.4
40°	1603.6	1518.8	1419.8	1318.9	1218.3	1119.2	1009.3	898.2	784.9	666.9	557.0
37.5°	1662.8	1579.5	1482.8	1377.3	1270.4	1166.4	1056.5	940.8	824.3	702.2	585.2
35°	1722.5	1632.4	1542.9	1433.0	1321.7	1211.2	1101.2	981.3	860.5	735.6	611.8
32.5°	1779.5	1683.6	1590.5	1485.8	1370.2	1253.7	1141.3	1019.5	894.6	767.1	636.9
30°	1839.9	1733.8	1634.5	1535.4	1415.9	1295.3	1177.5	1055.2	926.5	796.5	660.9
27.5°	1898.5	1780.8	1676.3	1575.7	1458.5	1334.2	1211.2	1088.5	956.2	823.5	684.7
25°	1953.2	1829.5	1716.6	1610.9	1498.0	1370.2	1242.4	1119.2	983.7	847.6	706.7
22.5°	2003.5	1876.1	1753.8	1643.3	1534.2	1403.2	1271.6	1144.8	1008.7	869.7	726.7
20°	2049.4	1918.4	1787.4	1672.9	1563.5	1433.0	1298.6	1167.9	1031.3	889.6	744.7
17.5°	2092.0	1956.3	1821.4	1700.5	1587.3	1459.6	1322.6	1188.5	1051.4	907.3	760.7
15°	2136.4	1989.6	1852.0	1724.6	1608.2	1482.8	1343.6	1206.5	1068.9	922.7	774.7
12.5°	2174.4	2018.0	1878.1	1745.3	1626.1	1502.5	1361.5	1221.8	1083.8	935.8	786.5
10°	2205.8	2041.5	1899.6	1762.3	1640.8	1518.8	1376.2	1234.4	1096.1	946.5	796.3
7.5°	2230.5	2059.9	1916.5	1775.6	1652.2	1531.6	1387.7	1244.2	1105.6	955.0	803.9
5°	2248.2	2073.2	1928.6	1785.1	1660.5	1540.7	1395.9	1251.3	1112.5	961.0	809.3
2.5°	2258.9	2081.1	1935.9	1790.9	1665.4	1546.2	1400.8	1255.5	1116.6	964.6	812.6
0°	2262.5	2083.8	1938.3	1792.8	1667.1	1548.0	1402.5	1256.9	1118.0	965.8	813.7
-2.5°	2258.9	2081.1	1935.9	1790.9	1665.4	1546.2	1400.8	1255.5	1116.6	964.6	812.6
-5°	2248.2	2073.2	1928.6	1785.1	1660.5	1540.7	1395.9	1251.3	1112.5	961.0	809.3
-7.5°	2230.5	2059.9	1916.5	1775.6	1652.2	1531.6	1387.7	1244.2	1105.6	955.0	803.9
-10°	2205.8	2041.5	1899.6	1762.3	1640.8	1518.8	1376.2	1234.4	1096.1	946.5	796.3
-12.5°	2174.4	2018.0	1878.1	1745.3	1626.1	1502.5	1361.5	1221.8	1083.8	935.8	786.5
-15°	2136.4	1989.6	1852.0	1724.6	1608.2	1482.8	1343.6	1206.5	1068.9	922.7	774.7
-17.5°	2092.0	1956.3	1821.4	1700.5	1587.3	1459.6	1322.6	1188.5	1051.4	907.3	760.7
-20°	2049.4	1918.4	1787.4	1672.9	1563.5	1433.0	1298.6	1167.9	1031.3	889.6	744.7

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CATALOG NUMBER: EPH-VN-08-E-PRO-4000K-44

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2003.5	1876.1	1753.8	1643.3	1534.2	1403.2	1271.6	1144.8	1008.7	869.7	726.7
-25°	1953.2	1829.5	1716.6	1610.9	1498.0	1370.2	1242.4	1119.2	983.7	847.6	706.7
-27.5°	1898.5	1780.8	1676.3	1575.7	1458.5	1334.2	1211.2	1088.5	956.2	823.5	684.7
-30°	1839.9	1733.8	1634.5	1535.4	1415.9	1295.3	1177.5	1055.2	926.5	796.5	660.9
-32.5°	1779.5	1683.6	1590.5	1485.8	1370.2	1253.7	1141.3	1019.5	894.6	767.1	636.9
-35°	1722.5	1632.4	1542.9	1433.0	1321.7	1211.2	1101.2	981.3	860.5	735.6	611.8
-37.5°	1662.8	1579.5	1482.8	1377.3	1270.4	1166.4	1056.5	940.8	824.3	702.2	585.2
-40°	1603.6	1518.8	1419.8	1318.9	1218.3	1119.2	1009.3	898.2	784.9	666.9	557.0
-42.5°	1540.7	1448.4	1354.1	1257.9	1164.5	1065.1	959.9	853.5	743.1	631.9	527.4
-45°	1462.8	1375.4	1285.8	1197.3	1107.6	1008.7	908.4	806.6	699.4	596.4	497.6
-47.5°	1382.5	1299.9	1217.2	1134.6	1044.0	950.1	854.9	755.9	653.9	559.4	468.2
-50°	1299.9	1223.8	1147.8	1065.3	978.2	889.6	798.8	703.3	610.7	521.0	437.7
-52.5°	1217.2	1147.8	1072.5	992.4	910.6	827.1	739.1	649.6	565.9	483.9	406.1
-55°	1134.6	1065.3	992.4	917.6	841.1	760.7	677.6	598.4	519.9	446.6	374.0
-57.5°	1044.0	978.2	910.6	841.1	767.9	692.0	617.9	545.8	475.8	408.3	345.5
-60°	950.1	889.6	827.1	760.7	692.0	624.5	558.8	493.5	431.7	370.2	316.2
-62.5°	854.9	798.8	739.1	677.6	617.9	558.8	499.4	443.4	386.5	336.0	286.3
-65°	755.9	703.3	649.6	598.4	545.8	493.5	443.4	392.4	345.9	301.1	256.7
-67.5°	653.9	610.7	565.9	519.9	475.8	431.7	386.5	345.9	306.0	265.5	229.2
-70°	559.4	521.0	483.9	446.6	408.3	370.2	336.0	301.1	265.5	233.6	201.2
-72.5°	468.2	437.7	406.1	374.0	345.5	316.2	286.3	256.7	229.2	201.2	172.9
-75°	380.8	358.0	335.0	311.3	286.8	262.0	239.4	216.2	192.6	168.5	145.5
-77.5°	305.5	287.0	267.8	250.0	232.0	213.5	194.6	175.3	156.2	137.4	118.4
-80°	234.3	221.3	207.8	193.8	179.4	164.7	150.5	136.1	121.3	106.3	91.1
-82.5°	167.7	158.5	149.0	139.2	129.2	118.8	108.2	97.3	86.3	75.0	65.5
-85°	105.2	99.2	92.9	86.3	79.6	72.7	67.2	61.5	55.7	49.7	43.7
-87.5°	49.2	46.8	44.3	41.7	39.1	36.4	33.6	30.8	27.9	24.9	21.9
-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: P624793 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-08-E-PRO-4000K-44

**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°	18.8	15.8	12.6	9.5	6.3	3.2	0.0
85°	37.6	31.5	25.3	19.0	12.7	6.3	0.0
82.5°	56.4	47.1	37.8	28.4	19.0	9.5	0.0
80°	75.6	62.7	50.3	37.8	25.3	12.6	0.0
77.5°	99.1	79.7	62.7	47.1	31.5	15.8	0.0
75°	122.5	99.1	75.6	56.4	37.6	18.8	0.0
72.5°	145.5	118.4	91.1	65.5	43.7	21.9	0.0
70°	168.5	137.4	106.3	75.0	49.7	24.9	0.0
67.5°	192.6	156.2	121.3	86.3	55.7	27.9	0.0
65°	216.2	175.3	136.1	97.3	61.5	30.8	0.0
62.5°	239.4	194.6	150.5	108.2	67.2	33.6	0.0
60°	262.0	213.5	164.7	118.8	72.7	36.4	0.0
57.5°	286.8	232.0	179.4	129.2	79.6	39.1	0.0
55°	311.3	250.0	193.8	139.2	86.3	41.7	0.0
52.5°	335.0	267.8	207.8	149.0	92.9	44.3	0.0
50°	358.0	287.0	221.3	158.5	99.2	46.8	0.0
47.5°	380.8	305.5	234.3	167.7	105.2	49.2	0.0
45°	406.0	323.3	246.9	177.1	111.1	51.5	0.0
42.5°	430.1	340.3	258.9	186.1	116.7	53.7	0.0
40°	453.1	356.6	271.1	194.7	122.0	55.8	0.0
37.5°	475.0	372.0	283.4	202.9	127.1	57.7	0.0
35°	495.7	388.3	295.1	210.5	131.8	59.6	0.0
32.5°	515.7	404.5	306.1	217.8	136.3	61.4	0.0
30°	535.7	419.6	316.3	224.5	140.5	63.0	0.0
27.5°	554.3	433.7	325.8	230.8	144.4	64.6	0.0
25°	571.5	446.6	334.6	236.6	148.0	66.0	0.0
22.5°	587.1	458.3	342.5	241.8	151.3	67.3	0.0
20°	601.1	468.9	349.7	246.6	154.2	68.4	0.0
17.5°	613.6	478.3	356.1	250.8	156.8	69.4	0.0
15°	624.5	486.5	361.6	254.4	159.1	70.3	0.0
12.5°	633.7	493.5	366.3	257.5	161.0	71.1	0.0
10°	641.3	499.2	370.2	260.1	162.6	71.7	0.0
7.5°	647.3	503.7	373.2	262.0	163.8	72.2	0.0
5°	651.5	506.8	375.4	263.5	164.7	72.5	0.0
2.5°	654.0	508.8	376.7	264.3	165.2	72.7	0.0
0°	654.9	509.4	377.1	264.6	165.4	72.8	0.0
-2.5°	654.0	508.8	376.7	264.3	165.2	72.7	0.0
-5°	651.5	506.8	375.4	263.5	164.7	72.5	0.0
-7.5°	647.3	503.7	373.2	262.0	163.8	72.2	0.0
-10°	641.3	499.2	370.2	260.1	162.6	71.7	0.0
-12.5°	633.7	493.5	366.3	257.5	161.0	71.1	0.0
-15°	624.5	486.5	361.6	254.4	159.1	70.3	0.0
-17.5°	613.6	478.3	356.1	250.8	156.8	69.4	0.0
-20°	601.1	468.9	349.7	246.6	154.2	68.4	0.0

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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	587.1	458.3	342.5	241.8	151.3	67.3	0.0
-25°	571.5	446.6	334.6	236.6	148.0	66.0	0.0
-27.5°	554.3	433.7	325.8	230.8	144.4	64.6	0.0
-30°	535.7	419.6	316.3	224.5	140.5	63.0	0.0
-32.5°	515.7	404.5	306.1	217.8	136.3	61.4	0.0
-35°	495.7	388.3	295.1	210.5	131.8	59.6	0.0
-37.5°	475.0	372.0	283.4	202.9	127.1	57.7	0.0
-40°	453.1	356.6	271.1	194.7	122.0	55.8	0.0
-42.5°	430.1	340.3	258.9	186.1	116.7	53.7	0.0
-45°	406.0	323.3	246.9	177.1	111.1	51.5	0.0
-47.5°	380.8	305.5	234.3	167.7	105.2	49.2	0.0
-50°	358.0	287.0	221.3	158.5	99.2	46.8	0.0
-52.5°	335.0	267.8	207.8	149.0	92.9	44.3	0.0
-55°	311.3	250.0	193.8	139.2	86.3	41.7	0.0
-57.5°	286.8	232.0	179.4	129.2	79.6	39.1	0.0
-60°	262.0	213.5	164.7	118.8	72.7	36.4	0.0
-62.5°	239.4	194.6	150.5	108.2	67.2	33.6	0.0
-65°	216.2	175.3	136.1	97.3	61.5	30.8	0.0
-67.5°	192.6	156.2	121.3	86.3	55.7	27.9	0.0
-70°	168.5	137.4	106.3	75.0	49.7	24.9	0.0
-72.5°	145.5	118.4	91.1	65.5	43.7	21.9	0.0
-75°	122.5	99.1	75.6	56.4	37.6	18.8	0.0
-77.5°	99.1	79.7	62.7	47.1	31.5	15.8	0.0
-80°	75.6	62.7	50.3	37.8	25.3	12.6	0.0
-82.5°	56.4	47.1	37.8	28.4	19.0	9.5	0.0
-85°	37.6	31.5	25.3	19.0	12.7	6.3	0.0
-87.5°	18.8	15.8	12.6	9.5	6.3	3.2	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)