

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: P687827 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 5/17/2023



Test Information

Test Method: LM-79-08
Report Number: P687827 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-765-34)
Test Lab: INNOVATION CENTER
Issue Date: 5/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-E-PRO-5700K-LAM
Description: EPHEBUS LUMAVISION CCT TUNING FLOOD
3000K AND LAMBERTIAN OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23500.5 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')

Beam Angle (50%): 117.5°H x 111.6°V
Beam Lumens: 19232.9 lumens
Beam Efficiency: 81.8%

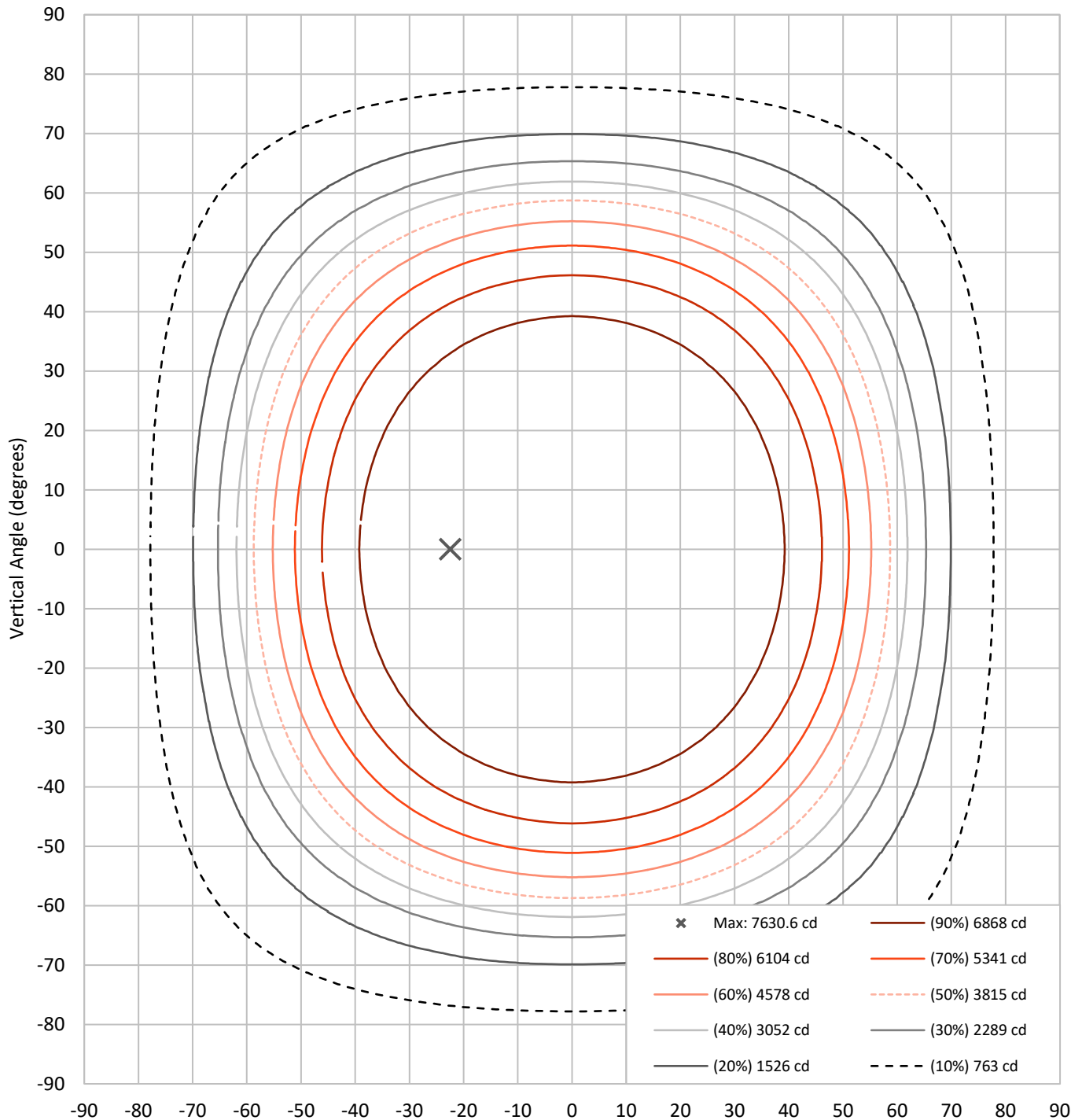
Input Watts (W): 189
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

NEMA Type: 7H x 7V
Max Intensity: 7630.6 candela
Max Intensity Angle: -22.5°H x 0°V

Field Angle (10%): 155.5°H x 153.7°V
Field Lumens: 23049.7 lumens
Field Efficiency: 98.1%

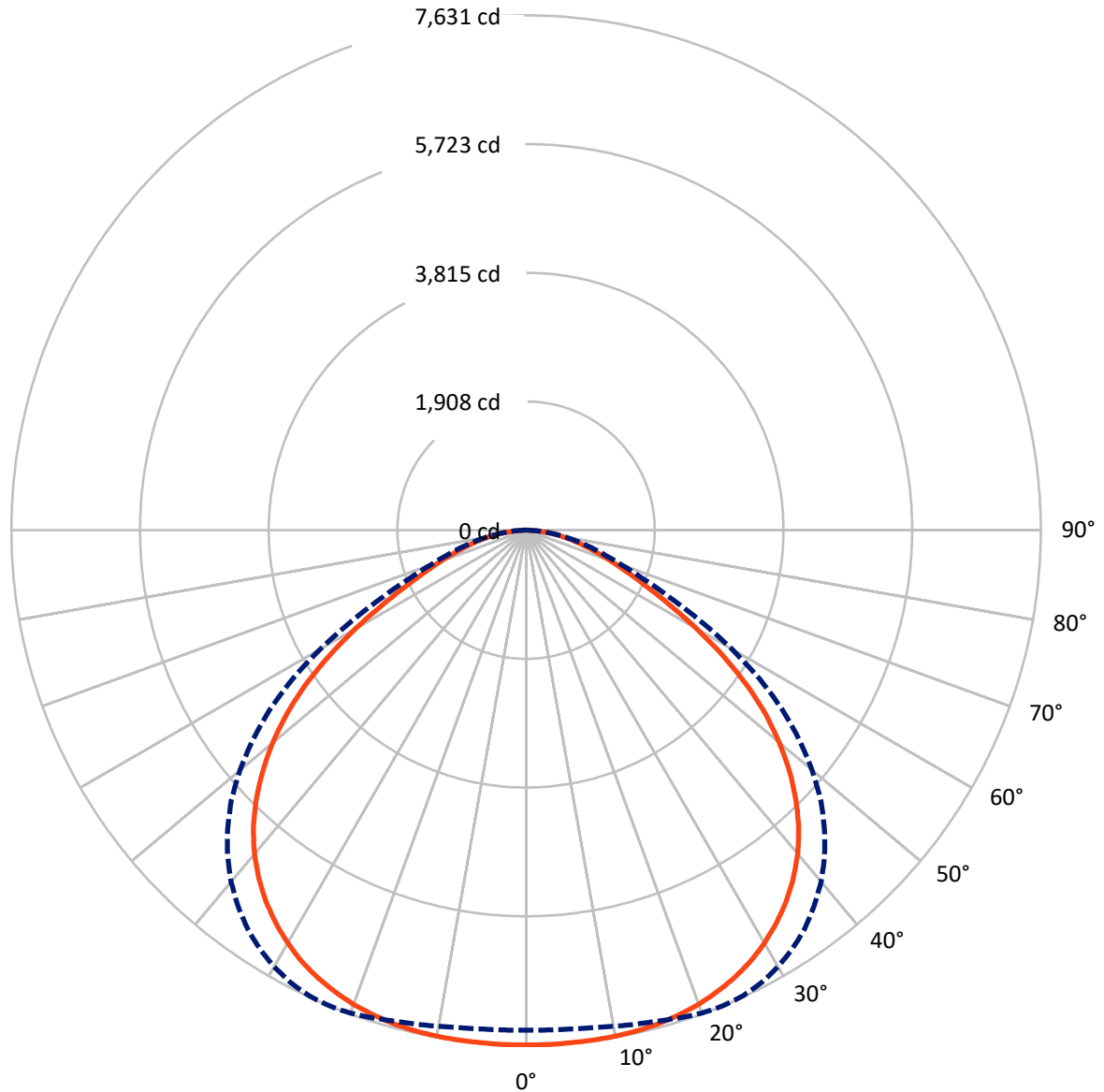
REPORT NUMBER: P687827 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: EPH-VN-04-E-PRO-5700K-LAM

Iso-Candela Plot



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Luminous Intensity Polar Plot

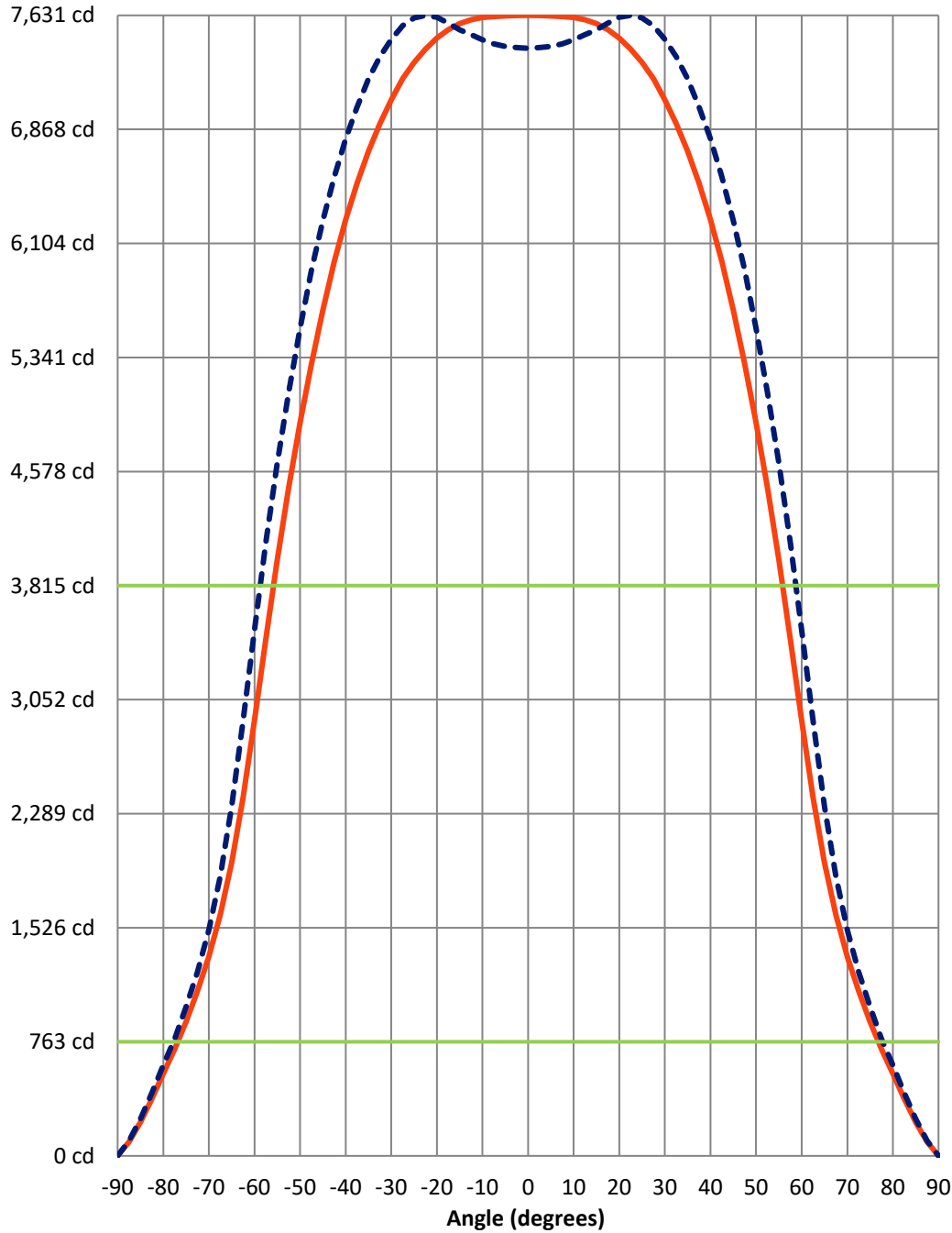


— Vertical Distribution Through -22.5-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
 H Angle: 117.5°
 V Angle: 111.6°
 Lumens: 19232.9
 Efficiency: 81.8%

Field:
 H Angle: 155.5°
 V Angle: 153.7°
 Lumens: 23049.7
 Efficiency: 98.1%

Spill:
 Lumens: 450.8
 Efficiency: 1.9%

— Vertical Distribution through -22.5-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	104.8	122.6	140.1
80°	0.0	17.6	35.2	52.7	70.1	87.4	105.8	130.2	154.2	177.9	201.2
77.5°	0.0	21.9	43.8	65.7	87.4	112.2	142.9	173.3	203.3	232.9	264.6
75°	0.0	26.2	52.4	78.5	105.8	142.9	179.7	216.1	252.8	294.8	336.1
72.5°	0.0	30.5	60.9	91.2	130.2	173.3	216.1	260.4	310.0	358.8	406.8
70°	0.0	34.7	69.3	104.8	154.2	203.3	252.8	310.0	366.4	422.1	480.8
67.5°	0.0	38.8	77.5	122.6	177.9	232.9	294.8	358.8	422.1	489.0	554.8
65°	0.0	42.8	85.6	140.1	201.2	264.6	336.1	406.8	480.8	554.8	626.5
62.5°	0.0	46.8	93.5	157.2	224.0	298.4	376.5	456.3	538.4	618.7	694.3
60°	0.0	50.7	101.3	173.9	246.3	331.4	416.1	505.8	594.8	678.7	760.8
57.5°	0.0	54.5	112.1	190.3	271.9	363.7	457.2	554.1	647.6	737.3	835.7
55°	0.0	58.1	122.7	206.1	297.0	395.1	497.6	601.1	698.5	797.4	913.5
52.5°	0.0	61.7	133.0	221.6	321.4	425.9	536.8	644.7	748.0	865.5	989.2
50°	0.0	65.2	143.0	236.5	345.0	457.5	574.8	686.7	799.1	931.7	1068.1
47.5°	0.0	68.5	152.5	251.5	367.8	488.0	611.1	727.2	855.9	995.7	1145.0
45°	0.0	71.7	161.7	267.9	389.6	517.4	644.5	766.2	910.6	1062.2	1219.3
42.5°	0.0	74.7	170.6	283.6	410.6	545.5	676.5	808.5	963.1	1126.3	1303.6
40°	0.0	77.7	179.0	298.6	431.3	572.3	707.1	852.3	1014.7	1187.5	1386.5
37.5°	0.0	80.4	187.0	312.8	451.7	597.8	736.2	894.0	1066.3	1249.4	1465.5
35°	0.0	83.1	194.5	326.2	470.9	621.1	763.6	933.4	1115.3	1316.5	1548.3
32.5°	0.0	85.5	201.6	338.9	489.0	642.6	791.2	970.5	1161.4	1379.7	1638.2
30°	0.0	87.8	208.2	350.7	505.9	662.7	820.9	1005.9	1204.5	1439.0	1722.6
27.5°	0.0	89.9	214.3	361.6	521.6	681.3	848.4	1040.8	1247.8	1494.1	1801.1
25°	0.0	91.9	220.0	371.7	536.0	698.4	873.7	1072.9	1292.6	1553.9	1874.4
22.5°	0.0	93.7	225.1	380.8	549.2	714.1	896.8	1102.2	1333.5	1612.9	1960.7
20°	0.0	95.3	229.7	389.1	561.0	728.1	917.6	1128.6	1370.4	1666.2	2038.7
17.5°	0.0	96.7	233.9	396.4	571.5	740.6	936.0	1152.1	1403.2	1713.5	2108.0
15°	0.0	97.9	237.4	402.8	580.7	751.5	952.1	1172.5	1431.8	1754.8	2168.5
12.5°	0.0	99.0	240.5	408.2	588.4	760.8	965.8	1189.9	1456.1	1789.9	2220.0
10°	0.0	99.9	243.0	412.7	594.8	768.3	977.0	1204.2	1476.1	1818.8	2262.4
7.5°	0.0	100.5	244.9	416.1	599.8	774.3	985.8	1215.3	1491.7	1841.4	2295.5
5°	0.0	101.0	246.3	418.6	603.3	778.5	992.1	1223.3	1502.8	1857.5	2319.2
2.5°	0.0	101.3	247.1	420.1	605.5	781.1	995.8	1228.1	1509.6	1867.3	2333.4
0°	0.0	101.4	247.4	420.6	606.2	781.9	997.1	1229.7	1511.8	1870.5	2338.2
-2.5°	0.0	101.3	247.1	420.1	605.5	781.1	995.8	1228.1	1509.6	1867.3	2333.4
-5°	0.0	101.0	246.3	418.6	603.3	778.5	992.1	1223.3	1502.8	1857.5	2319.2
-7.5°	0.0	100.5	244.9	416.1	599.8	774.3	985.8	1215.3	1491.7	1841.4	2295.5
-10°	0.0	99.9	243.0	412.7	594.8	768.3	977.0	1204.2	1476.1	1818.8	2262.4
-12.5°	0.0	99.0	240.5	408.2	588.4	760.8	965.8	1189.9	1456.1	1789.9	2220.0
-15°	0.0	97.9	237.4	402.8	580.7	751.5	952.1	1172.5	1431.8	1754.8	2168.5



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

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	225.1	380.8	549.2	714.1	896.8	1102.2	1333.5	1612.9	1960.7
-25°	0.0	91.9	220.0	371.7	536.0	698.4	873.7	1072.9	1292.6	1553.9	1874.4
-27.5°	0.0	89.9	214.3	361.6	521.6	681.3	848.4	1040.8	1247.8	1494.1	1801.1
-30°	0.0	87.8	208.2	350.7	505.9	662.7	820.9	1005.9	1204.5	1439.0	1722.6
-32.5°	0.0	85.5	201.6	338.9	489.0	642.6	791.2	970.5	1161.4	1379.7	1638.2
-35°	0.0	83.1	194.5	326.2	470.9	621.1	763.6	933.4	1115.3	1316.5	1548.3
-37.5°	0.0	80.4	187.0	312.8	451.7	597.8	736.2	894.0	1066.3	1249.4	1465.5
-40°	0.0	77.7	179.0	298.6	431.3	572.3	707.1	852.3	1014.7	1187.5	1386.5
-42.5°	0.0	74.7	170.6	283.6	410.6	545.5	676.5	808.5	963.1	1126.3	1303.6
-45°	0.0	71.7	161.7	267.9	389.6	517.4	644.5	766.2	910.6	1062.2	1219.3
-47.5°	0.0	68.5	152.5	251.5	367.8	488.0	611.1	727.2	855.9	995.7	1145.0
-50°	0.0	65.2	143.0	236.5	345.0	457.5	574.8	686.7	799.1	931.7	1068.1
-52.5°	0.0	61.7	133.0	221.6	321.4	425.9	536.8	644.7	748.0	865.5	989.2
-55°	0.0	58.1	122.7	206.1	297.0	395.1	497.6	601.1	698.5	797.4	913.5
-57.5°	0.0	54.5	112.1	190.3	271.9	363.7	457.2	554.1	647.6	737.3	835.7
-60°	0.0	50.7	101.3	173.9	246.3	331.4	416.1	505.8	594.8	678.7	760.8
-62.5°	0.0	46.8	93.5	157.2	224.0	298.4	376.5	456.3	538.4	618.7	694.3
-65°	0.0	42.8	85.6	140.1	201.2	264.6	336.1	406.8	480.8	554.8	626.5
-67.5°	0.0	38.8	77.5	122.6	177.9	232.9	294.8	358.8	422.1	489.0	554.8
-70°	0.0	34.7	69.3	104.8	154.2	203.3	252.8	310.0	366.4	422.1	480.8
-72.5°	0.0	30.5	60.9	91.2	130.2	173.3	216.1	260.4	310.0	358.8	406.8
-75°	0.0	26.2	52.4	78.5	105.8	142.9	179.7	216.1	252.8	294.8	336.1
-77.5°	0.0	21.9	43.8	65.7	87.4	112.2	142.9	173.3	203.3	232.9	264.6
-80°	0.0	17.6	35.2	52.7	70.1	87.4	105.8	130.2	154.2	177.9	201.2
-82.5°	0.0	13.2	26.4	39.6	52.7	65.7	78.5	91.2	104.8	122.6	140.1
-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



REPORT NUMBER: P687827 (CONVERTED FROM TYPE C PHOTOMETRY)

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

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	112.1	122.7	133.0	143.0	152.5	161.7	170.6	179.0	187.0
82.5°	157.2	173.9	190.3	206.1	221.6	236.5	251.5	267.9	283.6	298.6	312.8
80°	224.0	246.3	271.9	297.0	321.4	345.0	367.8	389.6	410.6	431.3	451.7
77.5°	298.4	331.4	363.7	395.1	425.9	457.5	488.0	517.4	545.5	572.3	597.8
75°	376.5	416.1	457.2	497.6	536.8	574.8	611.1	644.5	676.5	707.1	736.2
72.5°	456.3	505.8	554.1	601.1	644.7	686.7	727.2	766.2	808.5	852.3	894.0
70°	538.4	594.8	647.6	698.5	748.0	799.1	855.9	910.6	963.1	1014.7	1066.3
67.5°	618.7	678.7	737.3	797.4	865.5	931.7	995.7	1062.2	1126.3	1187.5	1249.4
65°	694.3	760.8	835.7	913.5	989.2	1068.1	1145.0	1219.3	1303.6	1386.5	1465.5
62.5°	768.6	854.9	942.4	1030.4	1120.4	1207.9	1306.1	1405.4	1500.9	1614.4	1725.5
60°	854.9	952.1	1051.4	1152.1	1254.6	1370.4	1482.8	1612.9	1745.9	1874.4	2033.4
57.5°	942.4	1051.4	1162.7	1280.4	1409.4	1541.1	1696.1	1846.0	2027.1	2208.2	2391.0
55°	1030.4	1152.1	1280.4	1422.4	1574.4	1746.3	1926.5	2137.6	2342.1	2581.6	2811.0
52.5°	1120.4	1254.6	1409.4	1574.4	1763.2	1970.7	2204.4	2451.7	2719.6	2981.7	3244.1
50°	1207.9	1370.4	1541.1	1746.3	1970.7	2226.8	2507.0	2803.2	3100.9	3394.3	3671.6
47.5°	1306.1	1482.8	1696.1	1926.5	2204.4	2507.0	2831.2	3161.0	3485.4	3790.8	4083.7
45°	1405.4	1612.9	1846.0	2137.6	2451.7	2803.2	3161.0	3515.9	3850.8	4167.9	4448.7
42.5°	1500.9	1745.9	2027.1	2342.1	2719.6	3100.9	3485.4	3850.8	4195.3	4504.5	4784.9
40°	1614.4	1874.4	2208.2	2581.6	2981.7	3394.3	3790.8	4167.9	4504.5	4810.4	5092.9
37.5°	1725.5	2033.4	2391.0	2811.0	3244.1	3671.6	4083.7	4448.7	4784.9	5092.9	5364.8
35°	1831.0	2184.5	2592.4	3036.8	3494.5	3933.3	4338.0	4709.1	5041.2	5340.8	5618.1
32.5°	1948.9	2327.3	2783.1	3256.6	3726.1	4174.3	4578.2	4938.6	5269.3	5573.4	5847.3
30°	2070.9	2488.8	2965.6	3463.5	3943.8	4385.6	4787.0	5151.5	5480.1	5778.9	6044.9
27.5°	2184.5	2641.7	3143.2	3653.0	4143.4	4583.7	4977.6	5337.1	5666.5	5966.1	6220.9
25°	2289.4	2783.1	3307.6	3827.1	4313.5	4753.5	5150.5	5510.2	5836.4	6120.6	6371.0
22.5°	2395.8	2912.7	3458.2	3987.0	4469.8	4904.8	5298.7	5658.3	5983.3	6263.2	6506.7
20°	2501.7	3036.8	3592.3	4129.1	4611.6	5042.3	5433.6	5791.5	6105.2	6379.0	6621.0
17.5°	2596.1	3147.4	3710.5	4245.3	4727.2	5159.8	5552.9	5911.1	6214.9	6483.4	6719.4
15°	2678.4	3244.1	3813.8	4347.1	4826.4	5257.6	5649.9	6002.6	6305.3	6572.4	6806.3
12.5°	2748.6	3326.5	3901.9	4434.0	4911.1	5341.3	5733.1	6079.3	6378.5	6641.8	6869.2
10°	2806.3	3394.3	3974.6	4505.6	4981.1	5410.5	5801.9	6142.7	6439.3	6699.5	6921.6
7.5°	2851.4	3447.4	4031.4	4561.7	5035.9	5464.7	5855.8	6192.6	6487.1	6745.0	6962.9
5°	2883.8	3485.4	4072.1	4601.9	5075.2	5503.6	5894.6	6228.4	6521.6	6777.8	6992.8
2.5°	2903.2	3508.3	4096.6	4626.1	5098.9	5527.1	5918.0	6250.1	6542.4	6797.6	7010.9
0°	2909.7	3515.9	4104.8	4634.2	5106.8	5534.9	5925.8	6257.3	6549.3	6804.2	7016.9
-2.5°	2903.2	3508.3	4096.6	4626.1	5098.9	5527.1	5918.0	6250.1	6542.4	6797.6	7010.9
-5°	2883.8	3485.4	4072.1	4601.9	5075.2	5503.6	5894.6	6228.4	6521.6	6777.8	6992.8
-7.5°	2851.4	3447.4	4031.4	4561.7	5035.9	5464.7	5855.8	6192.6	6487.1	6745.0	6962.9
-10°	2806.3	3394.3	3974.6	4505.6	4981.1	5410.5	5801.9	6142.7	6439.3	6699.5	6921.6
-12.5°	2748.6	3326.5	3901.9	4434.0	4911.1	5341.3	5733.1	6079.3	6378.5	6641.8	6869.2
-15°	2678.4	3244.1	3813.8	4347.1	4826.4	5257.6	5649.9	6002.6	6305.3	6572.4	6806.3

Classified

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

Scaled Data Report



REPORT NUMBER: P687827 (CONVERTED FROM TYPE C PHOTOMETRY)

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

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	2395.8	2912.7	3458.2	3987.0	4469.8	4904.8	5298.7	5658.3	5983.3	6263.2	6506.7
-25°	2289.4	2783.1	3307.6	3827.1	4313.5	4753.5	5150.5	5510.2	5836.4	6120.6	6371.0
-27.5°	2184.5	2641.7	3143.2	3653.0	4143.4	4583.7	4977.6	5337.1	5666.5	5966.1	6220.9
-30°	2070.9	2488.8	2965.6	3463.5	3943.8	4385.6	4787.0	5151.5	5480.1	5778.9	6044.9
-32.5°	1948.9	2327.3	2783.1	3256.6	3726.1	4174.3	4578.2	4938.6	5269.3	5573.4	5847.3
-35°	1831.0	2184.5	2592.4	3036.8	3494.5	3933.3	4338.0	4709.1	5041.2	5340.8	5618.1
-37.5°	1725.5	2033.4	2391.0	2811.0	3244.1	3671.6	4083.7	4448.7	4784.9	5092.9	5364.8
-40°	1614.4	1874.4	2208.2	2581.6	2981.7	3394.3	3790.8	4167.9	4504.5	4810.4	5092.9
-42.5°	1500.9	1745.9	2027.1	2342.1	2719.6	3100.9	3485.4	3850.8	4195.3	4504.5	4784.9
-45°	1405.4	1612.9	1846.0	2137.6	2451.7	2803.2	3161.0	3515.9	3850.8	4167.9	4448.7
-47.5°	1306.1	1482.8	1696.1	1926.5	2204.4	2507.0	2831.2	3161.0	3485.4	3790.8	4083.7
-50°	1207.9	1370.4	1541.1	1746.3	1970.7	2226.8	2507.0	2803.2	3100.9	3394.3	3671.6
-52.5°	1120.4	1254.6	1409.4	1574.4	1763.2	1970.7	2204.4	2451.7	2719.6	2981.7	3244.1
-55°	1030.4	1152.1	1280.4	1422.4	1574.4	1746.3	1926.5	2137.6	2342.1	2581.6	2811.0
-57.5°	942.4	1051.4	1162.7	1280.4	1409.4	1541.1	1696.1	1846.0	2027.1	2208.2	2391.0
-60°	854.9	952.1	1051.4	1152.1	1254.6	1370.4	1482.8	1612.9	1745.9	1874.4	2033.4
-62.5°	768.6	854.9	942.4	1030.4	1120.4	1207.9	1306.1	1405.4	1500.9	1614.4	1725.5
-65°	694.3	760.8	835.7	913.5	989.2	1068.1	1145.0	1219.3	1303.6	1386.5	1465.5
-67.5°	618.7	678.7	737.3	797.4	865.5	931.7	995.7	1062.2	1126.3	1187.5	1249.4
-70°	538.4	594.8	647.6	698.5	748.0	799.1	855.9	910.6	963.1	1014.7	1066.3
-72.5°	456.3	505.8	554.1	601.1	644.7	686.7	727.2	766.2	808.5	852.3	894.0
-75°	376.5	416.1	457.2	497.6	536.8	574.8	611.1	644.5	676.5	707.1	736.2
-77.5°	298.4	331.4	363.7	395.1	425.9	457.5	488.0	517.4	545.5	572.3	597.8
-80°	224.0	246.3	271.9	297.0	321.4	345.0	367.8	389.6	410.6	431.3	451.7
-82.5°	157.2	173.9	190.3	206.1	221.6	236.5	251.5	267.9	283.6	298.6	312.8
-85°	93.5	101.3	112.1	122.7	133.0	143.0	152.5	161.7	170.6	179.0	187.0
-87.5°	46.8	50.7	54.5	58.1	61.7	65.2	68.5	71.7	74.7	77.7	80.4
-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: P687827 (CONVERTED FROM TYPE C PHOTOMETRY)

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

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°	194.5	201.6	208.2	214.3	220.0	225.1	229.7	233.9	237.4	240.5	243.0
82.5°	326.2	338.9	350.7	361.6	371.7	380.8	389.1	396.4	402.8	408.2	412.7
80°	470.9	489.0	505.9	521.6	536.0	549.2	561.0	571.5	580.7	588.4	594.8
77.5°	621.1	642.6	662.7	681.3	698.4	714.1	728.1	740.6	751.5	760.8	768.3
75°	763.6	791.2	820.9	848.4	873.7	896.8	917.6	936.0	952.1	965.8	977.0
72.5°	933.4	970.5	1005.9	1040.8	1072.9	1102.2	1128.6	1152.1	1172.5	1189.9	1204.2
70°	1115.3	1161.4	1204.5	1247.8	1292.6	1333.5	1370.4	1403.2	1431.8	1456.1	1476.1
67.5°	1316.5	1379.7	1439.0	1494.1	1553.9	1612.9	1666.2	1713.5	1754.8	1789.9	1818.8
65°	1548.3	1638.2	1722.6	1801.1	1874.4	1960.7	2038.7	2108.0	2168.5	2220.0	2262.4
62.5°	1831.0	1948.9	2070.9	2184.5	2289.4	2395.8	2501.7	2596.1	2678.4	2748.6	2806.3
60°	2184.5	2327.3	2488.8	2641.7	2783.1	2912.7	3036.8	3147.4	3244.1	3326.5	3394.3
57.5°	2592.4	2783.1	2965.6	3143.2	3307.6	3458.2	3592.3	3710.5	3813.8	3901.9	3974.6
55°	3036.8	3256.6	3463.5	3653.0	3827.1	3987.0	4129.1	4245.3	4347.1	4434.0	4505.6
52.5°	3494.5	3726.1	3943.8	4143.4	4313.5	4469.8	4611.6	4727.2	4826.4	4911.1	4981.1
50°	3933.3	4174.3	4385.6	4583.7	4753.5	4904.8	5042.3	5159.8	5257.6	5341.3	5410.5
47.5°	4338.0	4578.2	4787.0	4977.6	5150.5	5298.7	5433.6	5552.9	5649.9	5733.1	5801.9
45°	4709.1	4938.6	5151.5	5337.1	5510.2	5658.3	5791.5	5911.1	6002.6	6079.3	6142.7
42.5°	5041.2	5269.3	5480.1	5666.5	5836.4	5983.3	6105.2	6214.9	6305.3	6378.5	6439.3
40°	5340.8	5573.4	5778.9	5966.1	6120.6	6263.2	6379.0	6483.4	6572.4	6641.8	6699.5
37.5°	5618.1	5847.3	6044.9	6220.9	6371.0	6506.7	6621.0	6719.4	6806.3	6869.2	6921.6
35°	5870.3	6084.7	6279.1	6444.4	6593.8	6720.9	6832.4	6921.1	7000.0	7062.4	7112.9
32.5°	6084.7	6297.2	6481.5	6643.7	6789.0	6905.2	7010.3	7095.8	7171.4	7230.3	7273.8
30°	6279.1	6481.5	6660.5	6820.4	6949.7	7065.1	7165.0	7245.6	7310.3	7363.9	7401.1
27.5°	6444.4	6643.7	6820.4	6964.7	7092.5	7207.0	7291.8	7366.2	7421.2	7469.5	7501.7
25°	6593.8	6789.0	6949.7	7092.5	7218.3	7315.3	7394.9	7460.9	7509.8	7551.4	7575.7
22.5°	6720.9	6905.2	7065.1	7207.0	7315.3	7404.6	7478.7	7534.8	7575.3	7601.1	7616.6
20°	6832.4	7010.3	7165.0	7291.8	7394.9	7478.7	7543.3	7585.4	7614.5	7624.0	7629.5
17.5°	6921.1	7095.8	7245.6	7366.2	7460.9	7534.8	7585.4	7616.3	7627.9	7625.1	7618.6
15°	7000.0	7171.4	7310.3	7421.2	7509.8	7575.3	7614.5	7627.9	7623.6	7609.2	7585.9
12.5°	7062.4	7230.3	7363.9	7469.5	7551.4	7601.1	7624.0	7625.1	7609.2	7580.3	7551.2
10°	7112.9	7273.8	7401.1	7501.7	7575.7	7616.6	7629.5	7618.6	7585.9	7551.2	7522.6
7.5°	7152.8	7308.2	7430.7	7527.3	7591.8	7622.6	7624.7	7602.3	7564.9	7528.3	7501.6
5°	7181.7	7333.2	7452.2	7546.1	7603.6	7627.0	7621.1	7589.4	7548.2	7514.1	7483.5
2.5°	7199.1	7348.3	7465.3	7557.5	7610.8	7629.7	7618.9	7581.3	7537.7	7505.0	7471.5
0°	7205.0	7353.4	7469.7	7561.3	7613.2	7630.6	7618.2	7578.6	7534.1	7501.9	7467.3
-2.5°	7199.1	7348.3	7465.3	7557.5	7610.8	7629.7	7618.9	7581.3	7537.7	7505.0	7471.5
-5°	7181.7	7333.2	7452.2	7546.1	7603.6	7627.0	7621.1	7589.4	7548.2	7514.1	7483.5
-7.5°	7152.8	7308.2	7430.7	7527.3	7591.8	7622.6	7624.7	7602.3	7564.9	7528.3	7501.6
-10°	7112.9	7273.8	7401.1	7501.7	7575.7	7616.6	7629.5	7618.6	7585.9	7551.2	7522.6
-12.5°	7062.4	7230.3	7363.9	7469.5	7551.4	7601.1	7624.0	7625.1	7609.2	7580.3	7551.2
-15°	7000.0	7171.4	7310.3	7421.2	7509.8	7575.3	7614.5	7627.9	7623.6	7609.2	7585.9



REPORT NUMBER: P687827 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-VN-04-E-PRO-5700K-LAM

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	6720.9	6905.2	7065.1	7207.0	7315.3	7404.6	7478.7	7534.8	7575.3	7601.1	7616.6
-25°	6593.8	6789.0	6949.7	7092.5	7218.3	7315.3	7394.9	7460.9	7509.8	7551.4	7575.7
-27.5°	6444.4	6643.7	6820.4	6964.7	7092.5	7207.0	7291.8	7366.2	7421.2	7469.5	7501.7
-30°	6279.1	6481.5	6660.5	6820.4	6949.7	7065.1	7165.0	7245.6	7310.3	7363.9	7401.1
-32.5°	6084.7	6297.2	6481.5	6643.7	6789.0	6905.2	7010.3	7095.8	7171.4	7230.3	7273.8
-35°	5870.3	6084.7	6279.1	6444.4	6593.8	6720.9	6832.4	6921.1	7000.0	7062.4	7112.9
-37.5°	5618.1	5847.3	6044.9	6220.9	6371.0	6506.7	6621.0	6719.4	6806.3	6869.2	6921.6
-40°	5340.8	5573.4	5778.9	5966.1	6120.6	6263.2	6379.0	6483.4	6572.4	6641.8	6699.5
-42.5°	5041.2	5269.3	5480.1	5666.5	5836.4	5983.3	6105.2	6214.9	6305.3	6378.5	6439.3
-45°	4709.1	4938.6	5151.5	5337.1	5510.2	5658.3	5791.5	5911.1	6002.6	6079.3	6142.7
-47.5°	4338.0	4578.2	4787.0	4977.6	5150.5	5298.7	5433.6	5552.9	5649.9	5733.1	5801.9
-50°	3933.3	4174.3	4385.6	4583.7	4753.5	4904.8	5042.3	5159.8	5257.6	5341.3	5410.5
-52.5°	3494.5	3726.1	3943.8	4143.4	4313.5	4469.8	4611.6	4727.2	4826.4	4911.1	4981.1
-55°	3036.8	3256.6	3463.5	3653.0	3827.1	3987.0	4129.1	4245.3	4347.1	4434.0	4505.6
-57.5°	2592.4	2783.1	2965.6	3143.2	3307.6	3458.2	3592.3	3710.5	3813.8	3901.9	3974.6
-60°	2184.5	2327.3	2488.8	2641.7	2783.1	2912.7	3036.8	3147.4	3244.1	3326.5	3394.3
-62.5°	1831.0	1948.9	2070.9	2184.5	2289.4	2395.8	2501.7	2596.1	2678.4	2748.6	2806.3
-65°	1548.3	1638.2	1722.6	1801.1	1874.4	1960.7	2038.7	2108.0	2168.5	2220.0	2262.4
-67.5°	1316.5	1379.7	1439.0	1494.1	1553.9	1612.9	1666.2	1713.5	1754.8	1789.9	1818.8
-70°	1115.3	1161.4	1204.5	1247.8	1292.6	1333.5	1370.4	1403.2	1431.8	1456.1	1476.1
-72.5°	933.4	970.5	1005.9	1040.8	1072.9	1102.2	1128.6	1152.1	1172.5	1189.9	1204.2
-75°	763.6	791.2	820.9	848.4	873.7	896.8	917.6	936.0	952.1	965.8	977.0
-77.5°	621.1	642.6	662.7	681.3	698.4	714.1	728.1	740.6	751.5	760.8	768.3
-80°	470.9	489.0	505.9	521.6	536.0	549.2	561.0	571.5	580.7	588.4	594.8
-82.5°	326.2	338.9	350.7	361.6	371.7	380.8	389.1	396.4	402.8	408.2	412.7
-85°	194.5	201.6	208.2	214.3	220.0	225.1	229.7	233.9	237.4	240.5	243.0
-87.5°	83.1	85.5	87.8	89.9	91.9	93.7	95.3	96.7	97.9	99.0	99.9
-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: P687827 (CONVERTED FROM TYPE C PHOTOMETRY)

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

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°	244.9	246.3	247.1	247.4	247.1	246.3	244.9	243.0	240.5	237.4	233.9
82.5°	416.1	418.6	420.1	420.6	420.1	418.6	416.1	412.7	408.2	402.8	396.4
80°	599.8	603.3	605.5	606.2	605.5	603.3	599.8	594.8	588.4	580.7	571.5
77.5°	774.3	778.5	781.1	781.9	781.1	778.5	774.3	768.3	760.8	751.5	740.6
75°	985.8	992.1	995.8	997.1	995.8	992.1	985.8	977.0	965.8	952.1	936.0
72.5°	1215.3	1223.3	1228.1	1229.7	1228.1	1223.3	1215.3	1204.2	1189.9	1172.5	1152.1
70°	1491.7	1502.8	1509.6	1511.8	1509.6	1502.8	1491.7	1476.1	1456.1	1431.8	1403.2
67.5°	1841.4	1857.5	1867.3	1870.5	1867.3	1857.5	1841.4	1818.8	1789.9	1754.8	1713.5
65°	2295.5	2319.2	2333.4	2338.2	2333.4	2319.2	2295.5	2262.4	2220.0	2168.5	2108.0
62.5°	2851.4	2883.8	2903.2	2909.7	2903.2	2883.8	2851.4	2806.3	2748.6	2678.4	2596.1
60°	3447.4	3485.4	3508.3	3515.9	3508.3	3485.4	3447.4	3394.3	3326.5	3244.1	3147.4
57.5°	4031.4	4072.1	4096.6	4104.8	4096.6	4072.1	4031.4	3974.6	3901.9	3813.8	3710.5
55°	4561.7	4601.9	4626.1	4634.2	4626.1	4601.9	4561.7	4505.6	4434.0	4347.1	4245.3
52.5°	5035.9	5075.2	5098.9	5106.8	5098.9	5075.2	5035.9	4981.1	4911.1	4826.4	4727.2
50°	5464.7	5503.6	5527.1	5534.9	5527.1	5503.6	5464.7	5410.5	5341.3	5257.6	5159.8
47.5°	5855.8	5894.6	5918.0	5925.8	5918.0	5894.6	5855.8	5801.9	5733.1	5649.9	5552.9
45°	6192.6	6228.4	6250.1	6257.3	6250.1	6228.4	6192.6	6142.7	6079.3	6002.6	5911.1
42.5°	6487.1	6521.6	6542.4	6549.3	6542.4	6521.6	6487.1	6439.3	6378.5	6305.3	6214.9
40°	6745.0	6777.8	6797.6	6804.2	6797.6	6777.8	6745.0	6699.5	6641.8	6572.4	6483.4
37.5°	6962.9	6992.8	7010.9	7016.9	7010.9	6992.8	6962.9	6921.6	6869.2	6806.3	6719.4
35°	7152.8	7181.7	7199.1	7205.0	7199.1	7181.7	7152.8	7112.9	7062.4	7000.0	6921.1
32.5°	7308.2	7333.2	7348.3	7353.4	7348.3	7333.2	7308.2	7273.8	7230.3	7171.4	7095.8
30°	7430.7	7452.2	7465.3	7469.7	7465.3	7452.2	7430.7	7401.1	7363.9	7310.3	7245.6
27.5°	7527.3	7546.1	7557.5	7561.3	7557.5	7546.1	7527.3	7501.7	7469.5	7421.2	7366.2
25°	7591.8	7603.6	7610.8	7613.2	7610.8	7603.6	7591.8	7575.7	7551.4	7509.8	7460.9
22.5°	7622.6	7627.0	7629.7	7630.6	7629.7	7627.0	7622.6	7616.6	7601.1	7575.3	7534.8
20°	7624.7	7621.1	7618.9	7618.2	7618.9	7621.1	7624.7	7629.5	7624.0	7614.5	7585.4
17.5°	7602.3	7589.4	7581.3	7578.6	7581.3	7589.4	7602.3	7618.6	7625.1	7627.9	7616.3
15°	7564.9	7548.2	7537.7	7534.1	7537.7	7548.2	7564.9	7585.9	7609.2	7623.6	7627.9
12.5°	7528.3	7514.1	7505.0	7501.9	7505.0	7514.1	7528.3	7551.2	7580.3	7609.2	7625.1
10°	7501.6	7483.5	7471.5	7467.3	7471.5	7483.5	7501.6	7522.6	7551.2	7585.9	7618.6
7.5°	7475.5	7456.4	7444.4	7440.0	7444.4	7456.4	7475.5	7501.6	7528.3	7564.9	7602.3
5°	7456.4	7437.0	7426.8	7422.7	7426.8	7437.0	7456.4	7483.5	7514.1	7548.2	7589.4
2.5°	7444.4	7426.8	7418.4	7415.3	7418.4	7426.8	7444.4	7471.5	7505.0	7537.7	7581.3
0°	7440.0	7422.7	7415.3	7410.3	7415.3	7422.7	7440.0	7467.3	7501.9	7534.1	7578.6
-2.5°	7444.4	7426.8	7418.4	7415.3	7418.4	7426.8	7444.4	7471.5	7505.0	7537.7	7581.3
-5°	7456.4	7437.0	7426.8	7422.7	7426.8	7437.0	7456.4	7483.5	7514.1	7548.2	7589.4
-7.5°	7475.5	7456.4	7444.4	7440.0	7444.4	7456.4	7475.5	7501.6	7528.3	7564.9	7602.3
-10°	7501.6	7483.5	7471.5	7467.3	7471.5	7483.5	7501.6	7522.6	7551.2	7585.9	7618.6
-12.5°	7528.3	7514.1	7505.0	7501.9	7505.0	7514.1	7528.3	7551.2	7580.3	7609.2	7625.1
-15°	7564.9	7548.2	7537.7	7534.1	7537.7	7548.2	7564.9	7585.9	7609.2	7623.6	7627.9



REPORT NUMBER: P687827 (CONVERTED FROM TYPE C PHOTOMETRY)

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

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	7622.6	7627.0	7629.7	7630.6	7629.7	7627.0	7622.6	7616.6	7601.1	7575.3	7534.8
-25°	7591.8	7603.6	7610.8	7613.2	7610.8	7603.6	7591.8	7575.7	7551.4	7509.8	7460.9
-27.5°	7527.3	7546.1	7557.5	7561.3	7557.5	7546.1	7527.3	7501.7	7469.5	7421.2	7366.2
-30°	7430.7	7452.2	7465.3	7469.7	7465.3	7452.2	7430.7	7401.1	7363.9	7310.3	7245.6
-32.5°	7308.2	7333.2	7348.3	7353.4	7348.3	7333.2	7308.2	7273.8	7230.3	7171.4	7095.8
-35°	7152.8	7181.7	7199.1	7205.0	7199.1	7181.7	7152.8	7112.9	7062.4	7000.0	6921.1
-37.5°	6962.9	6992.8	7010.9	7016.9	7010.9	6992.8	6962.9	6921.6	6869.2	6806.3	6719.4
-40°	6745.0	6777.8	6797.6	6804.2	6797.6	6777.8	6745.0	6699.5	6641.8	6572.4	6483.4
-42.5°	6487.1	6521.6	6542.4	6549.3	6542.4	6521.6	6487.1	6439.3	6378.5	6305.3	6214.9
-45°	6192.6	6228.4	6250.1	6257.3	6250.1	6228.4	6192.6	6142.7	6079.3	6002.6	5911.1
-47.5°	5855.8	5894.6	5918.0	5925.8	5918.0	5894.6	5855.8	5801.9	5733.1	5649.9	5552.9
-50°	5464.7	5503.6	5527.1	5534.9	5527.1	5503.6	5464.7	5410.5	5341.3	5257.6	5159.8
-52.5°	5035.9	5075.2	5098.9	5106.8	5098.9	5075.2	5035.9	4981.1	4911.1	4826.4	4727.2
-55°	4561.7	4601.9	4626.1	4634.2	4626.1	4601.9	4561.7	4505.6	4434.0	4347.1	4245.3
-57.5°	4031.4	4072.1	4096.6	4104.8	4096.6	4072.1	4031.4	3974.6	3901.9	3813.8	3710.5
-60°	3447.4	3485.4	3508.3	3515.9	3508.3	3485.4	3447.4	3394.3	3326.5	3244.1	3147.4
-62.5°	2851.4	2883.8	2903.2	2909.7	2903.2	2883.8	2851.4	2806.3	2748.6	2678.4	2596.1
-65°	2295.5	2319.2	2333.4	2338.2	2333.4	2319.2	2295.5	2262.4	2220.0	2168.5	2108.0
-67.5°	1841.4	1857.5	1867.3	1870.5	1867.3	1857.5	1841.4	1818.8	1789.9	1754.8	1713.5
-70°	1491.7	1502.8	1509.6	1511.8	1509.6	1502.8	1491.7	1476.1	1456.1	1431.8	1403.2
-72.5°	1215.3	1223.3	1228.1	1229.7	1228.1	1223.3	1215.3	1204.2	1189.9	1172.5	1152.1
-75°	985.8	992.1	995.8	997.1	995.8	992.1	985.8	977.0	965.8	952.1	936.0
-77.5°	774.3	778.5	781.1	781.9	781.1	778.5	774.3	768.3	760.8	751.5	740.6
-80°	599.8	603.3	605.5	606.2	605.5	603.3	599.8	594.8	588.4	580.7	571.5
-82.5°	416.1	418.6	420.1	420.6	420.1	418.6	416.1	412.7	408.2	402.8	396.4
-85°	244.9	246.3	247.1	247.4	247.1	246.3	244.9	243.0	240.5	237.4	233.9
-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: P687827 (CONVERTED FROM TYPE C PHOTOMETRY)

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

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°	229.7	225.1	220.0	214.3	208.2	201.6	194.5	187.0	179.0	170.6	161.7
82.5°	389.1	380.8	371.7	361.6	350.7	338.9	326.2	312.8	298.6	283.6	267.9
80°	561.0	549.2	536.0	521.6	505.9	489.0	470.9	451.7	431.3	410.6	389.6
77.5°	728.1	714.1	698.4	681.3	662.7	642.6	621.1	597.8	572.3	545.5	517.4
75°	917.6	896.8	873.7	848.4	820.9	791.2	763.6	736.2	707.1	676.5	644.5
72.5°	1128.6	1102.2	1072.9	1040.8	1005.9	970.5	933.4	894.0	852.3	808.5	766.2
70°	1370.4	1333.5	1292.6	1247.8	1204.5	1161.4	1115.3	1066.3	1014.7	963.1	910.6
67.5°	1666.2	1612.9	1553.9	1494.1	1439.0	1379.7	1316.5	1249.4	1187.5	1126.3	1062.2
65°	2038.7	1960.7	1874.4	1801.1	1722.6	1638.2	1548.3	1465.5	1386.5	1303.6	1219.3
62.5°	2501.7	2395.8	2289.4	2184.5	2070.9	1948.9	1831.0	1725.5	1614.4	1500.9	1405.4
60°	3036.8	2912.7	2783.1	2641.7	2488.8	2327.3	2184.5	2033.4	1874.4	1745.9	1612.9
57.5°	3592.3	3458.2	3307.6	3143.2	2965.6	2783.1	2592.4	2391.0	2208.2	2027.1	1846.0
55°	4129.1	3987.0	3827.1	3653.0	3463.5	3256.6	3036.8	2811.0	2581.6	2342.1	2137.6
52.5°	4611.6	4469.8	4313.5	4143.4	3943.8	3726.1	3494.5	3244.1	2981.7	2719.6	2451.7
50°	5042.3	4904.8	4753.5	4583.7	4385.6	4174.3	3933.3	3671.6	3394.3	3100.9	2803.2
47.5°	5433.6	5298.7	5150.5	4977.6	4787.0	4578.2	4338.0	4083.7	3790.8	3485.4	3161.0
45°	5791.5	5658.3	5510.2	5337.1	5151.5	4938.6	4709.1	4448.7	4167.9	3850.8	3515.9
42.5°	6105.2	5983.3	5836.4	5666.5	5480.1	5269.3	5041.2	4784.9	4504.5	4195.3	3850.8
40°	6379.0	6263.2	6120.6	5966.1	5778.9	5573.4	5340.8	5092.9	4810.4	4504.5	4167.9
37.5°	6621.0	6506.7	6371.0	6220.9	6044.9	5847.3	5618.1	5364.8	5092.9	4784.9	4448.7
35°	6832.4	6720.9	6593.8	6444.4	6279.1	6084.7	5870.3	5618.1	5340.8	5041.2	4709.1
32.5°	7010.3	6905.2	6789.0	6643.7	6481.5	6297.2	6084.7	5847.3	5573.4	5269.3	4938.6
30°	7165.0	7065.1	6949.7	6820.4	6660.5	6481.5	6279.1	6044.9	5778.9	5480.1	5151.5
27.5°	7291.8	7207.0	7092.5	6964.7	6820.4	6643.7	6444.4	6220.9	5966.1	5666.5	5337.1
25°	7394.9	7315.3	7218.3	7092.5	6949.7	6789.0	6593.8	6371.0	6120.6	5836.4	5510.2
22.5°	7478.7	7404.6	7315.3	7207.0	7065.1	6905.2	6720.9	6506.7	6263.2	5983.3	5658.3
20°	7543.3	7478.7	7394.9	7291.8	7165.0	7010.3	6832.4	6621.0	6379.0	6105.2	5791.5
17.5°	7585.4	7534.8	7460.9	7366.2	7245.6	7095.8	6921.1	6719.4	6483.4	6214.9	5911.1
15°	7614.5	7575.3	7509.8	7421.2	7310.3	7171.4	7000.0	6806.3	6572.4	6305.3	6002.6
12.5°	7624.0	7601.1	7551.4	7469.5	7363.9	7230.3	7062.4	6869.2	6641.8	6378.5	6079.3
10°	7629.5	7616.6	7575.7	7501.7	7401.1	7273.8	7112.9	6921.6	6699.5	6439.3	6142.7
7.5°	7624.7	7622.6	7591.8	7527.3	7430.7	7308.2	7152.8	6962.9	6745.0	6487.1	6192.6
5°	7621.1	7627.0	7603.6	7546.1	7452.2	7333.2	7181.7	6992.8	6777.8	6521.6	6228.4
2.5°	7618.9	7629.7	7610.8	7557.5	7465.3	7348.3	7199.1	7010.9	6797.6	6542.4	6250.1
0°	7618.2	7630.6	7613.2	7561.3	7469.7	7353.4	7205.0	7016.9	6804.2	6549.3	6257.3
-2.5°	7618.9	7629.7	7610.8	7557.5	7465.3	7348.3	7199.1	7010.9	6797.6	6542.4	6250.1
-5°	7621.1	7627.0	7603.6	7546.1	7452.2	7333.2	7181.7	6992.8	6777.8	6521.6	6228.4
-7.5°	7624.7	7622.6	7591.8	7527.3	7430.7	7308.2	7152.8	6962.9	6745.0	6487.1	6192.6
-10°	7629.5	7616.6	7575.7	7501.7	7401.1	7273.8	7112.9	6921.6	6699.5	6439.3	6142.7
-12.5°	7624.0	7601.1	7551.4	7469.5	7363.9	7230.3	7062.4	6869.2	6641.8	6378.5	6079.3
-15°	7614.5	7575.3	7509.8	7421.2	7310.3	7171.4	7000.0	6806.3	6572.4	6305.3	6002.6



REPORT NUMBER: P687827 (CONVERTED FROM TYPE C PHOTOMETRY)

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

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	7478.7	7404.6	7315.3	7207.0	7065.1	6905.2	6720.9	6506.7	6263.2	5983.3	5658.3
-25°	7394.9	7315.3	7218.3	7092.5	6949.7	6789.0	6593.8	6371.0	6120.6	5836.4	5510.2
-27.5°	7291.8	7207.0	7092.5	6964.7	6820.4	6643.7	6444.4	6220.9	5966.1	5666.5	5337.1
-30°	7165.0	7065.1	6949.7	6820.4	6660.5	6481.5	6279.1	6044.9	5778.9	5480.1	5151.5
-32.5°	7010.3	6905.2	6789.0	6643.7	6481.5	6297.2	6084.7	5847.3	5573.4	5269.3	4938.6
-35°	6832.4	6720.9	6593.8	6444.4	6279.1	6084.7	5870.3	5618.1	5340.8	5041.2	4709.1
-37.5°	6621.0	6506.7	6371.0	6220.9	6044.9	5847.3	5618.1	5364.8	5092.9	4784.9	4448.7
-40°	6379.0	6263.2	6120.6	5966.1	5778.9	5573.4	5340.8	5092.9	4810.4	4504.5	4167.9
-42.5°	6105.2	5983.3	5836.4	5666.5	5480.1	5269.3	5041.2	4784.9	4504.5	4195.3	3850.8
-45°	5791.5	5658.3	5510.2	5337.1	5151.5	4938.6	4709.1	4448.7	4167.9	3850.8	3515.9
-47.5°	5433.6	5298.7	5150.5	4977.6	4787.0	4578.2	4338.0	4083.7	3790.8	3485.4	3161.0
-50°	5042.3	4904.8	4753.5	4583.7	4385.6	4174.3	3933.3	3671.6	3394.3	3100.9	2803.2
-52.5°	4611.6	4469.8	4313.5	4143.4	3943.8	3726.1	3494.5	3244.1	2981.7	2719.6	2451.7
-55°	4129.1	3987.0	3827.1	3653.0	3463.5	3256.6	3036.8	2811.0	2581.6	2342.1	2137.6
-57.5°	3592.3	3458.2	3307.6	3143.2	2965.6	2783.1	2592.4	2391.0	2208.2	2027.1	1846.0
-60°	3036.8	2912.7	2783.1	2641.7	2488.8	2327.3	2184.5	2033.4	1874.4	1745.9	1612.9
-62.5°	2501.7	2395.8	2289.4	2184.5	2070.9	1948.9	1831.0	1725.5	1614.4	1500.9	1405.4
-65°	2038.7	1960.7	1874.4	1801.1	1722.6	1638.2	1548.3	1465.5	1386.5	1303.6	1219.3
-67.5°	1666.2	1612.9	1553.9	1494.1	1439.0	1379.7	1316.5	1249.4	1187.5	1126.3	1062.2
-70°	1370.4	1333.5	1292.6	1247.8	1204.5	1161.4	1115.3	1066.3	1014.7	963.1	910.6
-72.5°	1128.6	1102.2	1072.9	1040.8	1005.9	970.5	933.4	894.0	852.3	808.5	766.2
-75°	917.6	896.8	873.7	848.4	820.9	791.2	763.6	736.2	707.1	676.5	644.5
-77.5°	728.1	714.1	698.4	681.3	662.7	642.6	621.1	597.8	572.3	545.5	517.4
-80°	561.0	549.2	536.0	521.6	505.9	489.0	470.9	451.7	431.3	410.6	389.6
-82.5°	389.1	380.8	371.7	361.6	350.7	338.9	326.2	312.8	298.6	283.6	267.9
-85°	229.7	225.1	220.0	214.3	208.2	201.6	194.5	187.0	179.0	170.6	161.7
-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: P687827 (CONVERTED FROM TYPE C PHOTOMETRY)

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

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°	152.5	143.0	133.0	122.7	112.1	101.3	93.5	85.6	77.5	69.3	60.9
82.5°	251.5	236.5	221.6	206.1	190.3	173.9	157.2	140.1	122.6	104.8	91.2
80°	367.8	345.0	321.4	297.0	271.9	246.3	224.0	201.2	177.9	154.2	130.2
77.5°	488.0	457.5	425.9	395.1	363.7	331.4	298.4	264.6	232.9	203.3	173.3
75°	611.1	574.8	536.8	497.6	457.2	416.1	376.5	336.1	294.8	252.8	216.1
72.5°	727.2	686.7	644.7	601.1	554.1	505.8	456.3	406.8	358.8	310.0	260.4
70°	855.9	799.1	748.0	698.5	647.6	594.8	538.4	480.8	422.1	366.4	310.0
67.5°	995.7	931.7	865.5	797.4	737.3	678.7	618.7	554.8	489.0	422.1	358.8
65°	1145.0	1068.1	989.2	913.5	835.7	760.8	694.3	626.5	554.8	480.8	406.8
62.5°	1306.1	1207.9	1120.4	1030.4	942.4	854.9	768.6	694.3	618.7	538.4	456.3
60°	1482.8	1370.4	1254.6	1152.1	1051.4	952.1	854.9	760.8	678.7	594.8	505.8
57.5°	1696.1	1541.1	1409.4	1280.4	1162.7	1051.4	942.4	835.7	737.3	647.6	554.1
55°	1926.5	1746.3	1574.4	1422.4	1280.4	1152.1	1030.4	913.5	797.4	698.5	601.1
52.5°	2204.4	1970.7	1763.2	1574.4	1409.4	1254.6	1120.4	989.2	865.5	748.0	644.7
50°	2507.0	2226.8	1970.7	1746.3	1541.1	1370.4	1207.9	1068.1	931.7	799.1	686.7
47.5°	2831.2	2507.0	2204.4	1926.5	1696.1	1482.8	1306.1	1145.0	995.7	855.9	727.2
45°	3161.0	2803.2	2451.7	2137.6	1846.0	1612.9	1405.4	1219.3	1062.2	910.6	766.2
42.5°	3485.4	3100.9	2719.6	2342.1	2027.1	1745.9	1500.9	1303.6	1126.3	963.1	808.5
40°	3790.8	3394.3	2981.7	2581.6	2208.2	1874.4	1614.4	1386.5	1187.5	1014.7	852.3
37.5°	4083.7	3671.6	3244.1	2811.0	2391.0	2033.4	1725.5	1465.5	1249.4	1066.3	894.0
35°	4338.0	3933.3	3494.5	3036.8	2592.4	2184.5	1831.0	1548.3	1316.5	1115.3	933.4
32.5°	4578.2	4174.3	3726.1	3256.6	2783.1	2327.3	1948.9	1638.2	1379.7	1161.4	970.5
30°	4787.0	4385.6	3943.8	3463.5	2965.6	2488.8	2070.9	1722.6	1439.0	1204.5	1005.9
27.5°	4977.6	4583.7	4143.4	3653.0	3143.2	2641.7	2184.5	1801.1	1494.1	1247.8	1040.8
25°	5150.5	4753.5	4313.5	3827.1	3307.6	2783.1	2289.4	1874.4	1553.9	1292.6	1072.9
22.5°	5298.7	4904.8	4469.8	3987.0	3458.2	2912.7	2395.8	1960.7	1612.9	1333.5	1102.2
20°	5433.6	5042.3	4611.6	4129.1	3592.3	3036.8	2501.7	2038.7	1666.2	1370.4	1128.6
17.5°	5552.9	5159.8	4727.2	4245.3	3710.5	3147.4	2596.1	2108.0	1713.5	1403.2	1152.1
15°	5649.9	5257.6	4826.4	4347.1	3813.8	3244.1	2678.4	2168.5	1754.8	1431.8	1172.5
12.5°	5733.1	5341.3	4911.1	4434.0	3901.9	3326.5	2748.6	2220.0	1789.9	1456.1	1189.9
10°	5801.9	5410.5	4981.1	4505.6	3974.6	3394.3	2806.3	2262.4	1818.8	1476.1	1204.2
7.5°	5855.8	5464.7	5035.9	4561.7	4031.4	3447.4	2851.4	2295.5	1841.4	1491.7	1215.3
5°	5894.6	5503.6	5075.2	4601.9	4072.1	3485.4	2883.8	2319.2	1857.5	1502.8	1223.3
2.5°	5918.0	5527.1	5098.9	4626.1	4096.6	3508.3	2903.2	2333.4	1867.3	1509.6	1228.1
0°	5925.8	5534.9	5106.8	4634.2	4104.8	3515.9	2909.7	2338.2	1870.5	1511.8	1229.7
-2.5°	5918.0	5527.1	5098.9	4626.1	4096.6	3508.3	2903.2	2333.4	1867.3	1509.6	1228.1
-5°	5894.6	5503.6	5075.2	4601.9	4072.1	3485.4	2883.8	2319.2	1857.5	1502.8	1223.3
-7.5°	5855.8	5464.7	5035.9	4561.7	4031.4	3447.4	2851.4	2295.5	1841.4	1491.7	1215.3
-10°	5801.9	5410.5	4981.1	4505.6	3974.6	3394.3	2806.3	2262.4	1818.8	1476.1	1204.2
-12.5°	5733.1	5341.3	4911.1	4434.0	3901.9	3326.5	2748.6	2220.0	1789.9	1456.1	1189.9
-15°	5649.9	5257.6	4826.4	4347.1	3813.8	3244.1	2678.4	2168.5	1754.8	1431.8	1172.5



REPORT NUMBER: P687827 (CONVERTED FROM TYPE C PHOTOMETRY)

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

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	5298.7	4904.8	4469.8	3987.0	3458.2	2912.7	2395.8	1960.7	1612.9	1333.5	1102.2
-25°	5150.5	4753.5	4313.5	3827.1	3307.6	2783.1	2289.4	1874.4	1553.9	1292.6	1072.9
-27.5°	4977.6	4583.7	4143.4	3653.0	3143.2	2641.7	2184.5	1801.1	1494.1	1247.8	1040.8
-30°	4787.0	4385.6	3943.8	3463.5	2965.6	2488.8	2070.9	1722.6	1439.0	1204.5	1005.9
-32.5°	4578.2	4174.3	3726.1	3256.6	2783.1	2327.3	1948.9	1638.2	1379.7	1161.4	970.5
-35°	4338.0	3933.3	3494.5	3036.8	2592.4	2184.5	1831.0	1548.3	1316.5	1115.3	933.4
-37.5°	4083.7	3671.6	3244.1	2811.0	2391.0	2033.4	1725.5	1465.5	1249.4	1066.3	894.0
-40°	3790.8	3394.3	2981.7	2581.6	2208.2	1874.4	1614.4	1386.5	1187.5	1014.7	852.3
-42.5°	3485.4	3100.9	2719.6	2342.1	2027.1	1745.9	1500.9	1303.6	1126.3	963.1	808.5
-45°	3161.0	2803.2	2451.7	2137.6	1846.0	1612.9	1405.4	1219.3	1062.2	910.6	766.2
-47.5°	2831.2	2507.0	2204.4	1926.5	1696.1	1482.8	1306.1	1145.0	995.7	855.9	727.2
-50°	2507.0	2226.8	1970.7	1746.3	1541.1	1370.4	1207.9	1068.1	931.7	799.1	686.7
-52.5°	2204.4	1970.7	1763.2	1574.4	1409.4	1254.6	1120.4	989.2	865.5	748.0	644.7
-55°	1926.5	1746.3	1574.4	1422.4	1280.4	1152.1	1030.4	913.5	797.4	698.5	601.1
-57.5°	1696.1	1541.1	1409.4	1280.4	1162.7	1051.4	942.4	835.7	737.3	647.6	554.1
-60°	1482.8	1370.4	1254.6	1152.1	1051.4	952.1	854.9	760.8	678.7	594.8	505.8
-62.5°	1306.1	1207.9	1120.4	1030.4	942.4	854.9	768.6	694.3	618.7	538.4	456.3
-65°	1145.0	1068.1	989.2	913.5	835.7	760.8	694.3	626.5	554.8	480.8	406.8
-67.5°	995.7	931.7	865.5	797.4	737.3	678.7	618.7	554.8	489.0	422.1	358.8
-70°	855.9	799.1	748.0	698.5	647.6	594.8	538.4	480.8	422.1	366.4	310.0
-72.5°	727.2	686.7	644.7	601.1	554.1	505.8	456.3	406.8	358.8	310.0	260.4
-75°	611.1	574.8	536.8	497.6	457.2	416.1	376.5	336.1	294.8	252.8	216.1
-77.5°	488.0	457.5	425.9	395.1	363.7	331.4	298.4	264.6	232.9	203.3	173.3
-80°	367.8	345.0	321.4	297.0	271.9	246.3	224.0	201.2	177.9	154.2	130.2
-82.5°	251.5	236.5	221.6	206.1	190.3	173.9	157.2	140.1	122.6	104.8	91.2
-85°	152.5	143.0	133.0	122.7	112.1	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



REPORT NUMBER: P687827 (CONVERTED FROM TYPE C PHOTOMETRY)

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

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°	105.8	87.4	70.1	52.7	35.2	17.6	0.0
77.5°	142.9	112.2	87.4	65.7	43.8	21.9	0.0
75°	179.7	142.9	105.8	78.5	52.4	26.2	0.0
72.5°	216.1	173.3	130.2	91.2	60.9	30.5	0.0
70°	252.8	203.3	154.2	104.8	69.3	34.7	0.0
67.5°	294.8	232.9	177.9	122.6	77.5	38.8	0.0
65°	336.1	264.6	201.2	140.1	85.6	42.8	0.0
62.5°	376.5	298.4	224.0	157.2	93.5	46.8	0.0
60°	416.1	331.4	246.3	173.9	101.3	50.7	0.0
57.5°	457.2	363.7	271.9	190.3	112.1	54.5	0.0
55°	497.6	395.1	297.0	206.1	122.7	58.1	0.0
52.5°	536.8	425.9	321.4	221.6	133.0	61.7	0.0
50°	574.8	457.5	345.0	236.5	143.0	65.2	0.0
47.5°	611.1	488.0	367.8	251.5	152.5	68.5	0.0
45°	644.5	517.4	389.6	267.9	161.7	71.7	0.0
42.5°	676.5	545.5	410.6	283.6	170.6	74.7	0.0
40°	707.1	572.3	431.3	298.6	179.0	77.7	0.0
37.5°	736.2	597.8	451.7	312.8	187.0	80.4	0.0
35°	763.6	621.1	470.9	326.2	194.5	83.1	0.0
32.5°	791.2	642.6	489.0	338.9	201.6	85.5	0.0
30°	820.9	662.7	505.9	350.7	208.2	87.8	0.0
27.5°	848.4	681.3	521.6	361.6	214.3	89.9	0.0
25°	873.7	698.4	536.0	371.7	220.0	91.9	0.0
22.5°	896.8	714.1	549.2	380.8	225.1	93.7	0.0
20°	917.6	728.1	561.0	389.1	229.7	95.3	0.0
17.5°	936.0	740.6	571.5	396.4	233.9	96.7	0.0
15°	952.1	751.5	580.7	402.8	237.4	97.9	0.0
12.5°	965.8	760.8	588.4	408.2	240.5	99.0	0.0
10°	977.0	768.3	594.8	412.7	243.0	99.9	0.0
7.5°	985.8	774.3	599.8	416.1	244.9	100.5	0.0
5°	992.1	778.5	603.3	418.6	246.3	101.0	0.0
2.5°	995.8	781.1	605.5	420.1	247.1	101.3	0.0
0°	997.1	781.9	606.2	420.6	247.4	101.4	0.0
-2.5°	995.8	781.1	605.5	420.1	247.1	101.3	0.0
-5°	992.1	778.5	603.3	418.6	246.3	101.0	0.0
-7.5°	985.8	774.3	599.8	416.1	244.9	100.5	0.0
-10°	977.0	768.3	594.8	412.7	243.0	99.9	0.0
-12.5°	965.8	760.8	588.4	408.2	240.5	99.0	0.0
-15°	952.1	751.5	580.7	402.8	237.4	97.9	0.0

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REPORT NUMBER: P687827 (CONVERTED FROM TYPE C PHOTOMETRY)

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

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	896.8	714.1	549.2	380.8	225.1	93.7	0.0
-25°	873.7	698.4	536.0	371.7	220.0	91.9	0.0
-27.5°	848.4	681.3	521.6	361.6	214.3	89.9	0.0
-30°	820.9	662.7	505.9	350.7	208.2	87.8	0.0
-32.5°	791.2	642.6	489.0	338.9	201.6	85.5	0.0
-35°	763.6	621.1	470.9	326.2	194.5	83.1	0.0
-37.5°	736.2	597.8	451.7	312.8	187.0	80.4	0.0
-40°	707.1	572.3	431.3	298.6	179.0	77.7	0.0
-42.5°	676.5	545.5	410.6	283.6	170.6	74.7	0.0
-45°	644.5	517.4	389.6	267.9	161.7	71.7	0.0
-47.5°	611.1	488.0	367.8	251.5	152.5	68.5	0.0
-50°	574.8	457.5	345.0	236.5	143.0	65.2	0.0
-52.5°	536.8	425.9	321.4	221.6	133.0	61.7	0.0
-55°	497.6	395.1	297.0	206.1	122.7	58.1	0.0
-57.5°	457.2	363.7	271.9	190.3	112.1	54.5	0.0
-60°	416.1	331.4	246.3	173.9	101.3	50.7	0.0
-62.5°	376.5	298.4	224.0	157.2	93.5	46.8	0.0
-65°	336.1	264.6	201.2	140.1	85.6	42.8	0.0
-67.5°	294.8	232.9	177.9	122.6	77.5	38.8	0.0
-70°	252.8	203.3	154.2	104.8	69.3	34.7	0.0
-72.5°	216.1	173.3	130.2	91.2	60.9	30.5	0.0
-75°	179.7	142.9	105.8	78.5	52.4	26.2	0.0
-77.5°	142.9	112.2	87.4	65.7	43.8	21.9	0.0
-80°	105.8	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

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Horizontal Angle (degrees)

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Horizontal Angle (degrees)

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--- Horizontal Distribution through 0-Deg

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



-17.5°	0.0	96.7	233.9	396.4	571.5	740.6	936.0	1152.1	1403.2	1713.5	2108.0
-20°	0.0	95.3	229.7	389.1	561.0	728.1	917.6	1128.6	1370.4	1666.2	2038.7

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

Scaled Data Report



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

Scaled Data Report



-17.5°	2596.1	3147.4	3710.5	4245.3	4727.2	5159.8	5552.9	5911.1	6214.9	6483.4	6719.4
-20°	2501.7	3036.8	3592.3	4129.1	4611.6	5042.3	5433.6	5791.5	6105.2	6379.0	6621.0

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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

Scaled Data Report



-17.5°	6921.1	7095.8	7245.6	7366.2	7460.9	7534.8	7585.4	7616.3	7627.9	7625.1	7618.6
-20°	6832.4	7010.3	7165.0	7291.8	7394.9	7478.7	7543.3	7585.4	7614.5	7624.0	7629.5

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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

Scaled Data Report



-17.5°	7602.3	7589.4	7581.3	7578.6	7581.3	7589.4	7602.3	7618.6	7625.1	7627.9	7616.3
-20°	7624.7	7621.1	7618.9	7618.2	7618.9	7621.1	7624.7	7629.5	7624.0	7614.5	7585.4

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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

Scaled Data Report



-17.5°	7585.4	7534.8	7460.9	7366.2	7245.6	7095.8	6921.1	6719.4	6483.4	6214.9	5911.1
-20°	7543.3	7478.7	7394.9	7291.8	7165.0	7010.3	6832.4	6621.0	6379.0	6105.2	5791.5

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Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report



-17.5°	5552.9	5159.8	4727.2	4245.3	3710.5	3147.4	2596.1	2108.0	1713.5	1403.2	1152.1
-20°	5433.6	5042.3	4611.6	4129.1	3592.3	3036.8	2501.7	2038.7	1666.2	1370.4	1128.6

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Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report



-17.5°	936.0	740.6	571.5	396.4	233.9	96.7	0.0
-20°	917.6	728.1	561.0	389.1	229.7	95.3	0.0

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(END OF REPORT)