

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: EPHEBUS

Report Number: P624768 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-VN-06-E-PRO-3000K-77**

Issue Date: 11/8/2022

Test Information

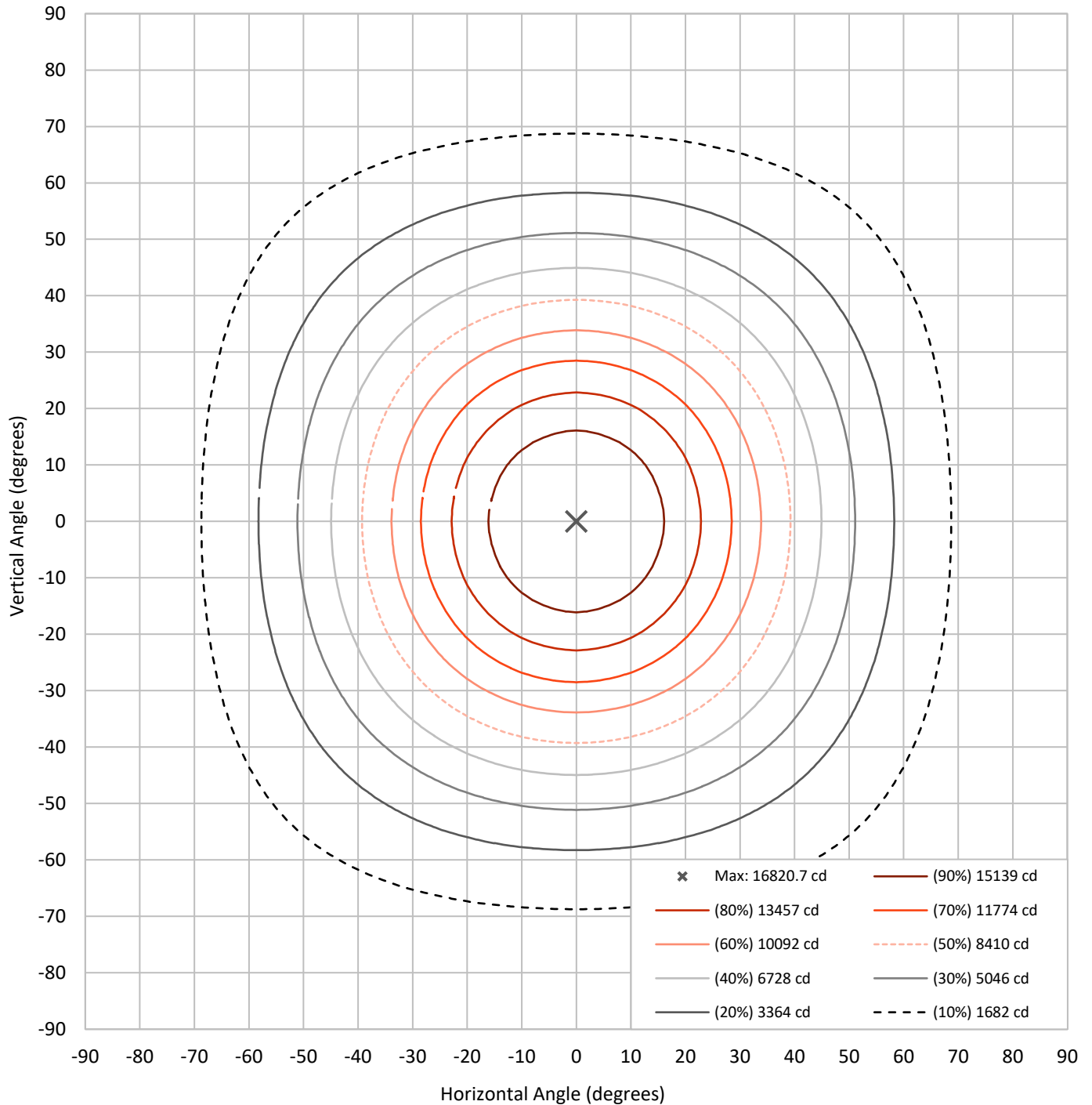
Test Method: LM-79-08
 Report Number: P624768 (CONVERTED FROM TYPE C PHOTOMETRY)
 TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-765-15)
 Test Lab: INNOVATION CENTER
 Issue Date: 11/8/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: EPHESUS
 Catalog Number: EPH-VN-06-E-PRO-3000K-77
 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:	30280.4 lumens	Max Intensity:	16820.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	123.4 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:	17470.3 lumens	Field Lumens:	28606.2 lumens
Beam Efficiency:	57.7%	Field Efficiency:	94.5%
Input Watts (W):	245.3		
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		

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CATALOG NUMBER: EPH-VN-06-E-PRO-3000K-77

Iso-Candela Plot





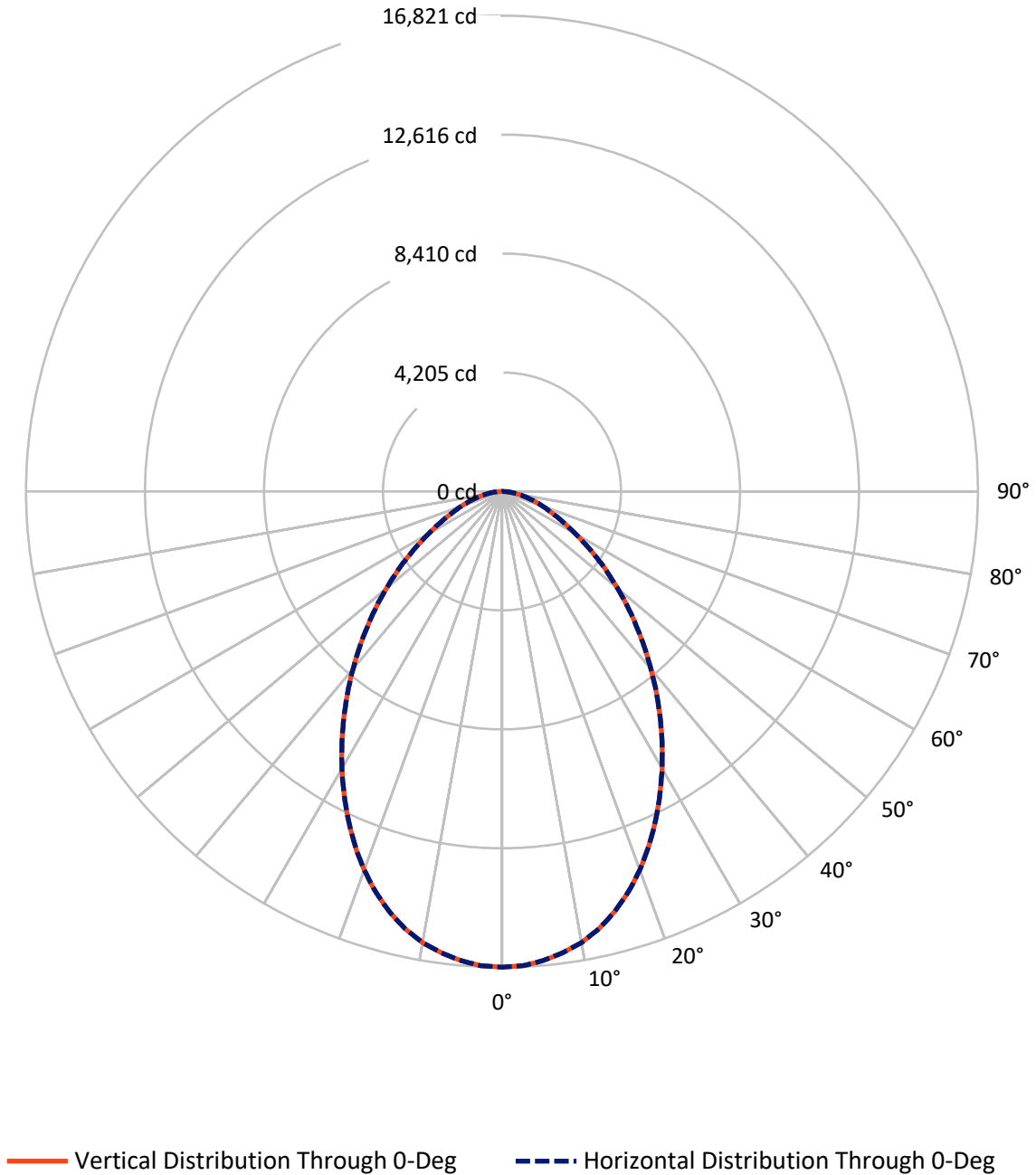
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Lumen Table

90																			
80	2.5	17.7	44.1	69.7	80.3	69.7	44.1	17.7	2.5										
70																			
60	8.0	8.3	16.7	27.4	39.4	51.1	60.7	66.0	66.0	60.7	51.1	39.4	27.4	16.7	8.3	8.0			
50																			
40	13.5	12.4	25.6	43.8	66.6	91.0	111.7	123.4	123.4	111.7	91.0	66.6	43.8	25.6	12.4	13.5			
30																			
20	17.6	16.6	35.7	65.4	104.7	146.3	181.3	201.3	201.3	181.3	146.3	104.7	65.4	35.7	16.6	17.6			
10																			
0	19.1	20.6	47.0	90.7	147.6	208.5	260.8	291.3	291.3	260.8	208.5	147.6	90.7	47.0	20.6	19.1			
-10																			
-20	17.6	24.2	58.1	114.6	188.7	269.8	340.8	382.7	382.7	340.8	269.8	188.7	114.6	58.1	24.2	17.6			
-30																			
-40	13.5	27.0	67.0	133.4	221.7	320.1	407.1	457.5	457.5	407.1	320.1	221.7	133.4	67.0	27.0	13.5			
-50																			
-60	8.0	28.5	71.8	143.7	240.2	348.6	443.8	496.3	496.3	443.8	348.6	240.2	143.7	71.8	28.5	8.0			
-70																			
-80	2.5	28.5	71.8	143.7	240.2	348.6	443.8	496.3	496.3	443.8	348.6	240.2	143.7	71.8	28.5	2.5			
-90																			

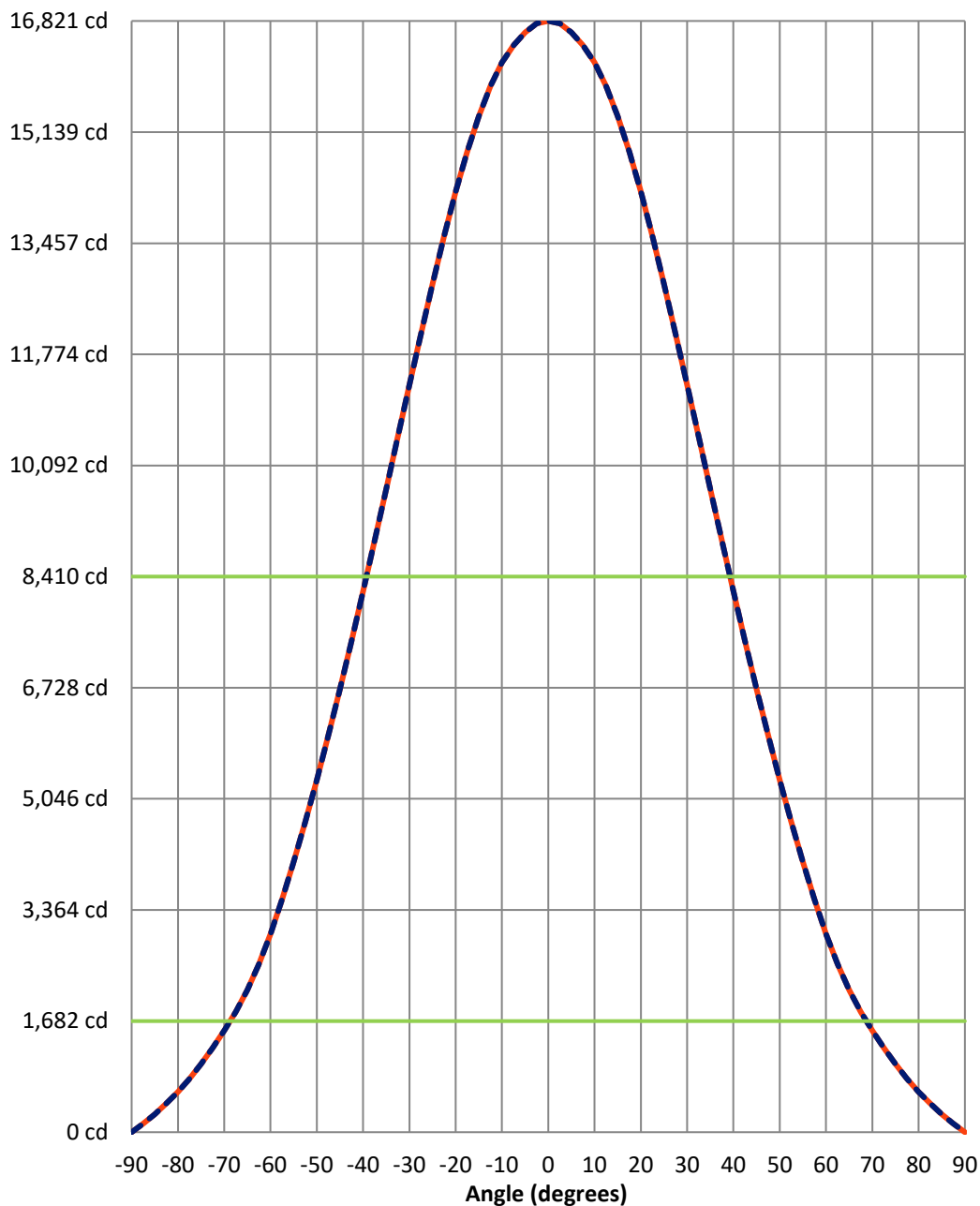
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 78.6°
 V Angle: 78.6°
 Lumens: 17470.3
 Efficiency: 57.7%

Field:
 H Angle: 137.5°
 V Angle: 137.5°
 Lumens: 28606.2
 Efficiency: 94.5%

Spill:
 Lumens: 1674.3
 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	5.6	11.3	16.9	22.5	28.0	33.5	38.9	44.3	49.5	54.7
85°	0.0	11.3	22.5	33.8	44.9	56.0	67.0	77.8	88.5	99.0	109.3
82.5°	0.0	16.9	33.8	50.6	67.3	83.9	100.3	116.5	132.8	150.1	167.1
80°	0.0	22.5	44.9	67.3	89.5	111.6	133.8	157.5	180.9	204.0	226.6
77.5°	0.0	28.0	56.0	83.9	111.6	140.0	169.9	199.5	228.7	257.5	287.9
75°	0.0	33.5	67.0	100.3	133.8	169.9	205.7	241.1	276.8	316.5	355.6
72.5°	0.0	38.9	77.8	116.5	157.5	199.5	241.1	283.9	330.9	377.2	422.7
70°	0.0	44.3	88.5	132.8	180.9	228.7	276.8	330.9	384.4	437.2	492.1
67.5°	0.0	49.5	99.0	150.1	204.0	257.5	316.5	377.2	437.2	499.8	561.3
65°	0.0	54.7	109.3	167.1	226.6	287.9	355.6	422.7	492.1	561.3	632.4
62.5°	0.0	59.8	119.5	183.8	248.8	319.9	394.0	469.2	546.0	623.6	709.1
60°	0.0	64.7	129.4	200.1	270.5	351.3	431.6	515.5	598.7	691.5	784.4
57.5°	0.0	69.6	140.0	216.0	294.8	381.8	470.1	560.7	656.3	757.9	864.4
55°	0.0	74.3	150.3	231.4	318.6	411.6	507.8	604.7	713.9	824.5	945.4
52.5°	0.0	78.8	160.3	246.4	341.8	440.8	544.5	653.0	770.0	895.5	1024.3
50°	0.0	83.2	169.9	261.0	364.1	470.3	580.0	700.5	826.3	964.4	1106.7
47.5°	0.0	87.5	179.3	275.5	385.7	498.9	615.0	746.4	885.5	1031.0	1187.1
45°	0.0	91.6	188.2	291.0	406.4	526.3	652.8	790.6	942.5	1100.6	1264.8
42.5°	0.0	95.5	196.8	305.9	426.3	552.6	689.1	836.1	997.1	1167.5	1344.4
40°	0.0	99.2	205.0	320.1	445.8	577.7	723.7	881.7	1050.9	1231.6	1421.4
37.5°	0.0	102.7	212.8	333.6	464.9	601.6	756.6	925.1	1104.9	1294.0	1494.8
35°	0.0	106.1	220.1	346.3	482.9	626.3	787.7	966.2	1156.1	1356.3	1566.7
32.5°	0.0	109.2	227.0	358.3	499.8	650.6	818.1	1004.8	1204.3	1415.1	1638.0
30°	0.0	112.1	233.4	369.5	515.6	673.4	849.0	1041.7	1249.4	1470.1	1704.8
27.5°	0.0	114.9	239.4	379.9	530.3	694.5	877.6	1078.2	1292.5	1521.3	1767.0
25°	0.0	117.4	244.9	389.4	543.8	713.9	904.0	1111.8	1334.2	1571.2	1824.8
22.5°	0.0	119.6	249.9	398.1	556.1	731.6	928.0	1142.4	1372.2	1617.9	1886.0
20°	0.0	121.7	254.4	405.9	567.1	747.5	949.7	1170.0	1406.5	1660.1	1941.2
17.5°	0.0	123.5	258.4	412.9	577.0	761.7	968.9	1194.5	1436.9	1697.6	1990.3
15°	0.0	125.1	261.9	418.9	585.5	774.0	985.7	1215.9	1463.5	1730.3	2033.2
12.5°	0.0	126.4	264.8	424.1	592.8	784.4	999.9	1234.1	1486.1	1758.2	2069.7
10°	0.0	127.5	267.3	428.3	598.7	793.0	1011.6	1249.0	1504.6	1781.1	2099.8
7.5°	0.0	128.4	269.2	431.6	603.4	799.8	1020.7	1260.7	1519.1	1798.9	2123.2
5°	0.0	129.0	270.5	433.9	606.7	804.6	1027.3	1269.0	1529.5	1811.7	2140.0
2.5°	0.0	129.4	271.3	435.3	608.7	807.4	1031.2	1274.0	1535.7	1819.4	2150.1
0°	0.0	129.5	271.6	435.8	609.4	808.4	1032.5	1275.7	1537.8	1822.0	2153.5
-2.5°	0.0	129.4	271.3	435.3	608.7	807.4	1031.2	1274.0	1535.7	1819.4	2150.1
-5°	0.0	129.0	270.5	433.9	606.7	804.6	1027.3	1269.0	1529.5	1811.7	2140.0
-7.5°	0.0	128.4	269.2	431.6	603.4	799.8	1020.7	1260.7	1519.1	1798.9	2123.2
-10°	0.0	127.5	267.3	428.3	598.7	793.0	1011.6	1249.0	1504.6	1781.1	2099.8
-12.5°	0.0	126.4	264.8	424.1	592.8	784.4	999.9	1234.1	1486.1	1758.2	2069.7
-15°	0.0	125.1	261.9	418.9	585.5	774.0	985.7	1215.9	1463.5	1730.3	2033.2
-17.5°	0.0	123.5	258.4	412.9	577.0	761.7	968.9	1194.5	1436.9	1697.6	1990.3
-20°	0.0	121.7	254.4	405.9	567.1	747.5	949.7	1170.0	1406.5	1660.1	1941.2

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Scaled Data Report



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CATALOG NUMBER: EPH-VN-06-E-PRO-3000K-77

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	119.6	249.9	398.1	556.1	731.6	928.0	1142.4	1372.2	1617.9	1886.0
-25°	0.0	117.4	244.9	389.4	543.8	713.9	904.0	1111.8	1334.2	1571.2	1824.8
-27.5°	0.0	114.9	239.4	379.9	530.3	694.5	877.6	1078.2	1292.5	1521.3	1767.0
-30°	0.0	112.1	233.4	369.5	515.6	673.4	849.0	1041.7	1249.4	1470.1	1704.8
-32.5°	0.0	109.2	227.0	358.3	499.8	650.6	818.1	1004.8	1204.3	1415.1	1638.0
-35°	0.0	106.1	220.1	346.3	482.9	626.3	787.7	966.2	1156.1	1356.3	1566.7
-37.5°	0.0	102.7	212.8	333.6	464.9	601.6	756.6	925.1	1104.9	1294.0	1494.8
-40°	0.0	99.2	205.0	320.1	445.8	577.7	723.7	881.7	1050.9	1231.6	1421.4
-42.5°	0.0	95.5	196.8	305.9	426.3	552.6	689.1	836.1	997.1	1167.5	1344.4
-45°	0.0	91.6	188.2	291.0	406.4	526.3	652.8	790.6	942.5	1100.6	1264.8
-47.5°	0.0	87.5	179.3	275.5	385.7	498.9	615.0	746.4	885.5	1031.0	1187.1
-50°	0.0	83.2	169.9	261.0	364.1	470.3	580.0	700.5	826.3	964.4	1106.7
-52.5°	0.0	78.8	160.3	246.4	341.8	440.8	544.5	653.0	770.0	895.5	1024.3
-55°	0.0	74.3	150.3	231.4	318.6	411.6	507.8	604.7	713.9	824.5	945.4
-57.5°	0.0	69.6	140.0	216.0	294.8	381.8	470.1	560.7	656.3	757.9	864.4
-60°	0.0	64.7	129.4	200.1	270.5	351.3	431.6	515.5	598.7	691.5	784.4
-62.5°	0.0	59.8	119.5	183.8	248.8	319.9	394.0	469.2	546.0	623.6	709.1
-65°	0.0	54.7	109.3	167.1	226.6	287.9	355.6	422.7	492.1	561.3	632.4
-67.5°	0.0	49.5	99.0	150.1	204.0	257.5	316.5	377.2	437.2	499.8	561.3
-70°	0.0	44.3	88.5	132.8	180.9	228.7	276.8	330.9	384.4	437.2	492.1
-72.5°	0.0	38.9	77.8	116.5	157.5	199.5	241.1	283.9	330.9	377.2	422.7
-75°	0.0	33.5	67.0	100.3	133.8	169.9	205.7	241.1	276.8	316.5	355.6
-77.5°	0.0	28.0	56.0	83.9	111.6	140.0	169.9	199.5	228.7	257.5	287.9
-80°	0.0	22.5	44.9	67.3	89.5	111.6	133.8	157.5	180.9	204.0	226.6
-82.5°	0.0	16.9	33.8	50.6	67.3	83.9	100.3	116.5	132.8	150.1	167.1
-85°	0.0	11.3	22.5	33.8	44.9	56.0	67.0	77.8	88.5	99.0	109.3
-87.5°	0.0	5.6	11.3	16.9	22.5	28.0	33.5	38.9	44.3	49.5	54.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: EPH-VN-06-E-PRO-3000K-77

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	59.8	64.7	69.6	74.3	78.8	83.2	87.5	91.6	95.5	99.2	102.7
85°	119.5	129.4	140.0	150.3	160.3	169.9	179.3	188.2	196.8	205.0	212.8
82.5°	183.8	200.1	216.0	231.4	246.4	261.0	275.5	291.0	305.9	320.1	333.6
80°	248.8	270.5	294.8	318.6	341.8	364.1	385.7	406.4	426.3	445.8	464.9
77.5°	319.9	351.3	381.8	411.6	440.8	470.3	498.9	526.3	552.6	577.7	601.6
75°	394.0	431.6	470.1	507.8	544.5	580.0	615.0	652.8	689.1	723.7	756.6
72.5°	469.2	515.5	560.7	604.7	653.0	700.5	746.4	790.6	836.1	881.7	925.1
70°	546.0	598.7	656.3	713.9	770.0	826.3	885.5	942.5	997.1	1050.9	1104.9
67.5°	623.6	691.5	757.9	824.5	895.5	964.4	1031.0	1100.6	1167.5	1231.6	1294.0
65°	709.1	784.4	864.4	945.4	1024.3	1106.7	1187.1	1264.8	1344.4	1421.4	1494.8
62.5°	793.3	884.5	975.6	1067.3	1161.4	1252.9	1346.7	1438.9	1527.7	1619.1	1707.1
60°	884.5	985.7	1089.3	1194.5	1298.9	1406.5	1510.8	1617.9	1723.3	1824.8	1937.4
57.5°	975.6	1089.3	1205.6	1322.8	1442.6	1561.0	1683.8	1802.6	1933.0	2061.4	2189.7
55°	1067.3	1194.5	1322.8	1454.7	1587.4	1723.6	1861.7	2011.3	2156.1	2320.3	2477.4
52.5°	1161.4	1298.9	1442.6	1587.4	1737.0	1893.0	2058.7	2231.3	2414.8	2599.1	2795.9
50°	1252.9	1406.5	1561.0	1723.6	1893.0	2074.5	2269.1	2472.1	2688.5	2908.6	3138.4
47.5°	1346.7	1510.8	1683.8	1861.7	2058.7	2269.1	2491.3	2733.6	2976.9	3244.4	3505.1
45°	1438.9	1617.9	1802.6	2011.3	2231.3	2472.1	2733.6	2999.8	3297.9	3591.6	3893.1
42.5°	1527.7	1723.3	1933.0	2156.1	2414.8	2688.5	2976.9	3297.9	3621.1	3953.0	4284.7
40°	1619.1	1824.8	2061.4	2320.3	2599.1	2908.6	3244.4	3591.6	3953.0	4317.1	4677.7
37.5°	1707.1	1937.4	2189.7	2477.4	2795.9	3138.4	3505.1	3893.1	4284.7	4677.7	5077.9
35°	1790.7	2044.5	2327.7	2640.5	2983.8	3371.3	3774.3	4187.9	4611.6	5042.3	5474.7
32.5°	1877.6	2145.8	2458.4	2805.3	3186.8	3598.5	4032.1	4480.7	4936.3	5397.0	5872.7
30°	1964.0	2256.7	2587.0	2960.5	3380.6	3825.3	4287.3	4761.7	5248.9	5753.9	6259.7
27.5°	2044.5	2361.5	2720.2	3121.8	3565.3	4038.0	4530.5	5036.8	5558.7	6093.8	6630.2
25°	2118.9	2458.4	2843.5	3276.8	3748.0	4244.5	4760.3	5293.5	5853.8	6419.1	6989.7
22.5°	2193.0	2547.3	2956.5	3419.0	3915.7	4437.6	4980.0	5544.5	6130.1	6721.5	7327.2
20°	2265.6	2640.5	3067.8	3550.0	4068.0	4613.0	5180.0	5775.8	6386.7	7009.5	7645.3
17.5°	2330.2	2723.4	3173.0	3674.7	4210.9	4774.0	5361.3	5983.5	6617.6	7269.2	7936.8
15°	2386.6	2795.9	3264.9	3784.0	4337.5	4919.0	5529.9	6170.8	6826.1	7501.5	8195.4
12.5°	2434.7	2857.7	3343.4	3877.3	4445.7	5043.1	5674.3	6332.1	7008.4	7707.1	8423.2
10°	2474.3	2908.6	3408.0	3954.2	4535.0	5145.6	5793.8	6465.6	7159.6	7877.9	8613.0
7.5°	2505.2	2948.4	3458.5	4014.4	4604.9	5226.0	5887.5	6570.6	7278.5	8012.5	8762.8
5°	2527.3	2976.9	3494.8	4057.6	4655.1	5283.7	5954.8	6646.1	7364.1	8109.6	8870.9
2.5°	2540.7	2994.1	3516.6	4083.6	4685.3	5318.5	5995.4	6691.6	7415.8	8168.2	8936.3
0°	2545.1	2999.8	3523.9	4092.3	4695.4	5330.1	6009.0	6706.8	7433.1	8187.8	8958.2
-2.5°	2540.7	2994.1	3516.6	4083.6	4685.3	5318.5	5995.4	6691.6	7415.8	8168.2	8936.3
-5°	2527.3	2976.9	3494.8	4057.6	4655.1	5283.7	5954.8	6646.1	7364.1	8109.6	8870.9
-7.5°	2505.2	2948.4	3458.5	4014.4	4604.9	5226.0	5887.5	6570.6	7278.5	8012.5	8762.8
-10°	2474.3	2908.6	3408.0	3954.2	4535.0	5145.6	5793.8	6465.6	7159.6	7877.9	8613.0
-12.5°	2434.7	2857.7	3343.4	3877.3	4445.7	5043.1	5674.3	6332.1	7008.4	7707.1	8423.2
-15°	2386.6	2795.9	3264.9	3784.0	4337.5	4919.0	5529.9	6170.8	6826.1	7501.5	8195.4
-17.5°	2330.2	2723.4	3173.0	3674.7	4210.9	4774.0	5361.3	5983.5	6617.6	7269.2	7936.8
-20°	2265.6	2640.5	3067.8	3550.0	4068.0	4613.0	5180.0	5775.8	6386.7	7009.5	7645.3



REPORT NUMBER: P624768 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-VN-06-E-PRO-3000K-77

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	2193.0	2547.3	2956.5	3419.0	3915.7	4437.6	4980.0	5544.5	6130.1	6721.5	7327.2
-25°	2118.9	2458.4	2843.5	3276.8	3748.0	4244.5	4760.3	5293.5	5853.8	6419.1	6989.7
-27.5°	2044.5	2361.5	2720.2	3121.8	3565.3	4038.0	4530.5	5036.8	5558.7	6093.8	6630.2
-30°	1964.0	2256.7	2587.0	2960.5	3380.6	3825.3	4287.3	4761.7	5248.9	5753.9	6259.7
-32.5°	1877.6	2145.8	2458.4	2805.3	3186.8	3598.5	4032.1	4480.7	4936.3	5397.0	5872.7
-35°	1790.7	2044.5	2327.7	2640.5	2983.8	3371.3	3774.3	4187.9	4611.6	5042.3	5474.7
-37.5°	1707.1	1937.4	2189.7	2477.4	2795.9	3138.4	3505.1	3893.1	4284.7	4677.7	5077.9
-40°	1619.1	1824.8	2061.4	2320.3	2599.1	2908.6	3244.4	3591.6	3953.0	4317.1	4677.7
-42.5°	1527.7	1723.3	1933.0	2156.1	2414.8	2688.5	2976.9	3297.9	3621.1	3953.0	4284.7
-45°	1438.9	1617.9	1802.6	2011.3	2231.3	2472.1	2733.6	2999.8	3297.9	3591.6	3893.1
-47.5°	1346.7	1510.8	1683.8	1861.7	2058.7	2269.1	2491.3	2733.6	2976.9	3244.4	3505.1
-50°	1252.9	1406.5	1561.0	1723.6	1893.0	2074.5	2269.1	2472.1	2688.5	2908.6	3138.4
-52.5°	1161.4	1298.9	1442.6	1587.4	1737.0	1893.0	2058.7	2231.3	2414.8	2599.1	2795.9
-55°	1067.3	1194.5	1322.8	1454.7	1587.4	1723.6	1861.7	2011.3	2156.1	2320.3	2477.4
-57.5°	975.6	1089.3	1205.6	1322.8	1442.6	1561.0	1683.8	1802.6	1933.0	2061.4	2189.7
-60°	884.5	985.7	1089.3	1194.5	1298.9	1406.5	1510.8	1617.9	1723.3	1824.8	1937.4
-62.5°	793.3	884.5	975.6	1067.3	1161.4	1252.9	1346.7	1438.9	1527.7	1619.1	1707.1
-65°	709.1	784.4	864.4	945.4	1024.3	1106.7	1187.1	1264.8	1344.4	1421.4	1494.8
-67.5°	623.6	691.5	757.9	824.5	895.5	964.4	1031.0	1100.6	1167.5	1231.6	1294.0
-70°	546.0	598.7	656.3	713.9	770.0	826.3	885.5	942.5	997.1	1050.9	1104.9
-72.5°	469.2	515.5	560.7	604.7	653.0	700.5	746.4	790.6	836.1	881.7	925.1
-75°	394.0	431.6	470.1	507.8	544.5	580.0	615.0	652.8	689.1	723.7	756.6
-77.5°	319.9	351.3	381.8	411.6	440.8	470.3	498.9	526.3	552.6	577.7	601.6
-80°	248.8	270.5	294.8	318.6	341.8	364.1	385.7	406.4	426.3	445.8	464.9
-82.5°	183.8	200.1	216.0	231.4	246.4	261.0	275.5	291.0	305.9	320.1	333.6
-85°	119.5	129.4	140.0	150.3	160.3	169.9	179.3	188.2	196.8	205.0	212.8
-87.5°	59.8	64.7	69.6	74.3	78.8	83.2	87.5	91.6	95.5	99.2	102.7
-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: P624768 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-06-E-PRO-3000K-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°	106.1	109.2	112.1	114.9	117.4	119.6	121.7	123.5	125.1	126.4	127.5
85°	220.1	227.0	233.4	239.4	244.9	249.9	254.4	258.4	261.9	264.8	267.3
82.5°	346.3	358.3	369.5	379.9	389.4	398.1	405.9	412.9	418.9	424.1	428.3
80°	482.9	499.8	515.6	530.3	543.8	556.1	567.1	577.0	585.5	592.8	598.7
77.5°	626.3	650.6	673.4	694.5	713.9	731.6	747.5	761.7	774.0	784.4	793.0
75°	787.7	818.1	849.0	877.6	904.0	928.0	949.7	968.9	985.7	999.9	1011.6
72.5°	966.2	1004.8	1041.7	1078.2	1111.8	1142.4	1170.0	1194.5	1215.9	1234.1	1249.0
70°	1156.1	1204.3	1249.4	1292.5	1334.2	1372.2	1406.5	1436.9	1463.5	1486.1	1504.6
67.5°	1356.3	1415.1	1470.1	1521.3	1571.2	1617.9	1660.1	1697.6	1730.3	1758.2	1781.1
65°	1566.7	1638.0	1704.8	1767.0	1824.8	1886.0	1941.2	1990.3	2033.2	2069.7	2099.8
62.5°	1790.7	1877.6	1964.0	2044.5	2118.9	2193.0	2265.6	2330.2	2386.6	2434.7	2474.3
60°	2044.5	2145.8	2256.7	2361.5	2458.4	2547.3	2640.5	2723.4	2795.9	2857.7	2908.6
57.5°	2327.7	2458.4	2587.0	2720.2	2843.5	2956.5	3067.8	3173.0	3264.9	3343.4	3408.0
55°	2640.5	2805.3	2960.5	3121.8	3276.8	3419.0	3550.0	3674.7	3784.0	3877.3	3954.2
52.5°	2983.8	3186.8	3380.6	3565.3	3748.0	3915.7	4068.0	4210.9	4337.5	4445.7	4535.0
50°	3371.3	3598.5	3825.3	4038.0	4244.5	4437.6	4613.0	4774.0	4919.0	5043.1	5145.6
47.5°	3774.3	4032.1	4287.3	4530.5	4760.3	4980.0	5180.0	5361.3	5529.9	5674.3	5793.8
45°	4187.9	4480.7	4761.7	5036.8	5293.5	5544.5	5775.8	5983.5	6170.8	6332.1	6465.6
42.5°	4611.6	4936.3	5248.9	5558.7	5853.8	6130.1	6386.7	6617.6	6826.1	7008.4	7159.6
40°	5042.3	5397.0	5753.9	6093.8	6419.1	6721.5	7009.5	7269.2	7501.5	7707.1	7877.9
37.5°	5474.7	5872.7	6259.7	6630.2	6989.7	7327.2	7645.3	7936.8	8195.4	8423.2	8613.0
35°	5912.6	6343.6	6761.0	7172.2	7564.9	7941.1	8290.0	8611.3	8897.0	9146.1	9354.5
32.5°	6343.6	6806.0	7264.5	7712.6	8142.9	8553.5	8934.3	9283.9	9596.1	9870.2	10102.2
30°	6761.0	7264.5	7762.3	8246.4	8714.8	9157.0	9569.9	9951.9	10297.4	10598.2	10848.7
27.5°	7172.2	7712.6	8246.4	8769.1	9270.4	9745.7	10198.4	10613.6	10984.2	11309.3	11579.4
25°	7564.9	8142.9	8714.8	9270.4	9806.2	10324.1	10806.9	11251.1	11648.3	11997.9	12291.5
22.5°	7941.1	8553.5	9157.0	9745.7	10324.1	10872.3	11386.5	11858.5	12286.1	12663.0	12979.5
20°	8290.0	8934.3	9569.9	10198.4	10806.9	11386.5	11929.8	12433.7	12893.0	13289.7	13627.4
17.5°	8611.3	9283.9	9951.9	10613.6	11251.1	11858.5	12433.7	12968.8	13450.5	13863.4	14216.9
15°	8897.0	9596.1	10297.4	10984.2	11648.3	12286.1	12893.0	13450.5	13944.4	14375.2	14731.6
12.5°	9146.1	9870.2	10598.2	11309.3	11997.9	12663.0	13289.7	13863.4	14375.2	14818.2	15173.2
10°	9354.5	10102.2	10848.7	11579.4	12291.5	12979.5	13627.4	14216.9	14731.6	15173.2	15540.3
7.5°	9519.3	10286.2	11048.1	11795.4	12526.3	13229.6	13886.4	14482.0	15008.0	15460.2	15835.7
5°	9638.6	10419.6	11193.1	11952.9	12698.5	13414.0	14078.9	14679.5	15208.4	15660.0	16024.1
2.5°	9710.8	10500.5	11281.2	12048.9	12803.6	13527.1	14197.6	14802.4	15334.5	15788.1	16148.5
0°	9735.0	10527.6	11310.7	12081.1	12839.0	13565.2	14237.8	14844.1	15377.7	15832.4	16192.4
-2.5°	9710.8	10500.5	11281.2	12048.9	12803.6	13527.1	14197.6	14802.4	15334.5	15788.1	16148.5
-5°	9638.6	10419.6	11193.1	11952.9	12698.5	13414.0	14078.9	14679.5	15208.4	15660.0	16024.1
-7.5°	9519.3	10286.2	11048.1	11795.4	12526.3	13229.6	13886.4	14482.0	15008.0	15460.2	15835.7
-10°	9354.5	10102.2	10848.7	11579.4	12291.5	12979.5	13627.4	14216.9	14731.6	15173.2	15540.3
-12.5°	9146.1	9870.2	10598.2	11309.3	11997.9	12663.0	13289.7	13863.4	14375.2	14818.2	15173.2
-15°	8897.0	9596.1	10297.4	10984.2	11648.3	12286.1	12893.0	13450.5	13944.4	14375.2	14731.6
-17.5°	8611.3	9283.9	9951.9	10613.6	11251.1	11858.5	12433.7	12968.8	13450.5	13863.4	14216.9
-20°	8290.0	8934.3	9569.9	10198.4	10806.9	11386.5	11929.8	12433.7	12893.0	13289.7	13627.4



REPORT NUMBER: P624768 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-VN-06-E-PRO-3000K-77

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	7941.1	8553.5	9157.0	9745.7	10324.1	10872.3	11386.5	11858.5	12286.1	12663.0	12979.5
-25°	7564.9	8142.9	8714.8	9270.4	9806.2	10324.1	10806.9	11251.1	11648.3	11997.9	12291.5
-27.5°	7172.2	7712.6	8246.4	8769.1	9270.4	9745.7	10198.4	10613.6	10984.2	11309.3	11579.4
-30°	6761.0	7264.5	7762.3	8246.4	8714.8	9157.0	9569.9	9951.9	10297.4	10598.2	10848.7
-32.5°	6343.6	6806.0	7264.5	7712.6	8142.9	8553.5	8934.3	9283.9	9596.1	9870.2	10102.2
-35°	5912.6	6343.6	6761.0	7172.2	7564.9	7941.1	8290.0	8611.3	8897.0	9146.1	9354.5
-37.5°	5474.7	5872.7	6259.7	6630.2	6989.7	7327.2	7645.3	7936.8	8195.4	8423.2	8613.0
-40°	5042.3	5397.0	5753.9	6093.8	6419.1	6721.5	7009.5	7269.2	7501.5	7707.1	7877.9
-42.5°	4611.6	4936.3	5248.9	5558.7	5853.8	6130.1	6386.7	6617.6	6826.1	7008.4	7159.6
-45°	4187.9	4480.7	4761.7	5036.8	5293.5	5544.5	5775.8	5983.5	6170.8	6332.1	6465.6
-47.5°	3774.3	4032.1	4287.3	4530.5	4760.3	4980.0	5180.0	5361.3	5529.9	5674.3	5793.8
-50°	3371.3	3598.5	3825.3	4038.0	4244.5	4437.6	4613.0	4774.0	4919.0	5043.1	5145.6
-52.5°	2983.8	3186.8	3380.6	3565.3	3748.0	3915.7	4068.0	4210.9	4337.5	4445.7	4535.0
-55°	2640.5	2805.3	2960.5	3121.8	3276.8	3419.0	3550.0	3674.7	3784.0	3877.3	3954.2
-57.5°	2327.7	2458.4	2587.0	2720.2	2843.5	2956.5	3067.8	3173.0	3264.9	3343.4	3408.0
-60°	2044.5	2145.8	2256.7	2361.5	2458.4	2547.3	2640.5	2723.4	2795.9	2857.7	2908.6
-62.5°	1790.7	1877.6	1964.0	2044.5	2118.9	2193.0	2265.6	2330.2	2386.6	2434.7	2474.3
-65°	1566.7	1638.0	1704.8	1767.0	1824.8	1886.0	1941.2	1990.3	2033.2	2069.7	2099.8
-67.5°	1356.3	1415.1	1470.1	1521.3	1571.2	1617.9	1660.1	1697.6	1730.3	1758.2	1781.1
-70°	1156.1	1204.3	1249.4	1292.5	1334.2	1372.2	1406.5	1436.9	1463.5	1486.1	1504.6
-72.5°	966.2	1004.8	1041.7	1078.2	1111.8	1142.4	1170.0	1194.5	1215.9	1234.1	1249.0
-75°	787.7	818.1	849.0	877.6	904.0	928.0	949.7	968.9	985.7	999.9	1011.6
-77.5°	626.3	650.6	673.4	694.5	713.9	731.6	747.5	761.7	774.0	784.4	793.0
-80°	482.9	499.8	515.6	530.3	543.8	556.1	567.1	577.0	585.5	592.8	598.7
-82.5°	346.3	358.3	369.5	379.9	389.4	398.1	405.9	412.9	418.9	424.1	428.3
-85°	220.1	227.0	233.4	239.4	244.9	249.9	254.4	258.4	261.9	264.8	267.3
-87.5°	106.1	109.2	112.1	114.9	117.4	119.6	121.7	123.5	125.1	126.4	127.5
-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: P624768 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-06-E-PRO-3000K-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°	128.4	129.0	129.4	129.5	129.4	129.0	128.4	127.5	126.4	125.1	123.5
85°	269.2	270.5	271.3	271.6	271.3	270.5	269.2	267.3	264.8	261.9	258.4
82.5°	431.6	433.9	435.3	435.8	435.3	433.9	431.6	428.3	424.1	418.9	412.9
80°	603.4	606.7	608.7	609.4	608.7	606.7	603.4	598.7	592.8	585.5	577.0
77.5°	799.8	804.6	807.4	808.4	807.4	804.6	799.8	793.0	784.4	774.0	761.7
75°	1020.7	1027.3	1031.2	1032.5	1031.2	1027.3	1020.7	1011.6	999.9	985.7	968.9
72.5°	1260.7	1269.0	1274.0	1275.7	1274.0	1269.0	1260.7	1249.0	1234.1	1215.9	1194.5
70°	1519.1	1529.5	1535.7	1537.8	1535.7	1529.5	1519.1	1504.6	1486.1	1463.5	1436.9
67.5°	1798.9	1811.7	1819.4	1822.0	1819.4	1811.7	1798.9	1781.1	1758.2	1730.3	1697.6
65°	2123.2	2140.0	2150.1	2153.5	2150.1	2140.0	2123.2	2099.8	2069.7	2033.2	1990.3
62.5°	2505.2	2527.3	2540.7	2545.1	2540.7	2527.3	2505.2	2474.3	2434.7	2386.6	2330.2
60°	2948.4	2976.9	2994.1	2999.8	2994.1	2976.9	2948.4	2908.6	2857.7	2795.9	2723.4
57.5°	3458.5	3494.8	3516.6	3523.9	3516.6	3494.8	3458.5	3408.0	3343.4	3264.9	3173.0
55°	4014.4	4057.6	4083.6	4092.3	4083.6	4057.6	4014.4	3954.2	3877.3	3784.0	3674.7
52.5°	4604.9	4655.1	4685.3	4695.4	4685.3	4655.1	4604.9	4535.0	4445.7	4337.5	4210.9
50°	5226.0	5283.7	5318.5	5330.1	5318.5	5283.7	5226.0	5145.6	5043.1	4919.0	4774.0
47.5°	5887.5	5954.8	5995.4	6009.0	5995.4	5954.8	5887.5	5793.8	5674.3	5529.9	5361.3
45°	6570.6	6646.1	6691.6	6706.8	6691.6	6646.1	6570.6	6465.6	6332.1	6170.8	5983.5
42.5°	7278.5	7364.1	7415.8	7433.1	7415.8	7364.1	7278.5	7159.6	7008.4	6826.1	6617.6
40°	8012.5	8109.6	8168.2	8187.8	8168.2	8109.6	8012.5	7877.9	7707.1	7501.5	7269.2
37.5°	8762.8	8870.9	8936.3	8958.2	8936.3	8870.9	8762.8	8613.0	8423.2	8195.4	7936.8
35°	9519.3	9638.6	9710.8	9735.0	9710.8	9638.6	9519.3	9354.5	9146.1	8897.0	8611.3
32.5°	10286.2	10419.6	10500.5	10527.6	10500.5	10419.6	10286.2	10102.2	9870.2	9596.1	9283.9
30°	11048.1	11193.1	11281.2	11310.7	11281.2	11193.1	11048.1	10848.7	10598.2	10297.4	9951.9
27.5°	11795.4	11952.9	12048.9	12081.1	12048.9	11952.9	11795.4	11579.4	11309.3	10984.2	10613.6
25°	12526.3	12698.5	12803.6	12839.0	12803.6	12698.5	12526.3	12291.5	11997.9	11648.3	11251.1
22.5°	13229.6	13414.0	13527.1	13565.2	13527.1	13414.0	13229.6	12979.5	12663.0	12286.1	11858.5
20°	13886.4	14078.9	14197.6	14237.8	14197.6	14078.9	13886.4	13627.4	13289.7	12893.0	12433.7
17.5°	14482.0	14679.5	14802.4	14844.1	14802.4	14679.5	14482.0	14216.9	13863.4	13450.5	12968.8
15°	15008.0	15208.4	15334.5	15377.7	15334.5	15208.4	15008.0	14731.6	14375.2	13944.4	13450.5
12.5°	15460.2	15660.0	15788.1	15832.4	15788.1	15660.0	15460.2	15173.2	14818.2	14375.2	13863.4
10°	15835.7	16024.1	16148.5	16192.4	16148.5	16024.1	15835.7	15540.3	15173.2	14731.6	14216.9
7.5°	16107.2	16295.3	16409.5	16451.3	16409.5	16295.3	16107.2	15835.7	15460.2	15008.0	14482.0
5°	16295.3	16485.2	16601.0	16647.1	16601.0	16485.2	16295.3	16024.1	15660.0	15208.4	14679.5
2.5°	16409.5	16601.0	16726.7	16782.9	16726.7	16601.0	16409.5	16148.5	15788.1	15334.5	14802.4
0°	16451.3	16647.1	16782.9	16820.7	16782.9	16647.1	16451.3	16192.4	15832.4	15377.7	14844.1
-2.5°	16409.5	16601.0	16726.7	16782.9	16726.7	16601.0	16409.5	16148.5	15788.1	15334.5	14802.4
-5°	16295.3	16485.2	16601.0	16647.1	16601.0	16485.2	16295.3	16024.1	15660.0	15208.4	14679.5
-7.5°	16107.2	16295.3	16409.5	16451.3	16409.5	16295.3	16107.2	15835.7	15460.2	15008.0	14482.0
-10°	15835.7	16024.1	16148.5	16192.4	16148.5	16024.1	15835.7	15540.3	15173.2	14731.6	14216.9
-12.5°	15460.2	15660.0	15788.1	15832.4	15788.1	15660.0	15460.2	15173.2	14818.2	14375.2	13863.4
-15°	15008.0	15208.4	15334.5	15377.7	15334.5	15208.4	15008.0	14731.6	14375.2	13944.4	13450.5
-17.5°	14482.0	14679.5	14802.4	14844.1	14802.4	14679.5	14482.0	14216.9	13863.4	13450.5	12968.8
-20°	13886.4	14078.9	14197.6	14237.8	14197.6	14078.9	13886.4	13627.4	13289.7	12893.0	12433.7



REPORT NUMBER: P624768 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-06-E-PRO-3000K-77

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	13229.6	13414.0	13527.1	13565.2	13527.1	13414.0	13229.6	12979.5	12663.0	12286.1	11858.5
-25°	12526.3	12698.5	12803.6	12839.0	12803.6	12698.5	12526.3	12291.5	11997.9	11648.3	11251.1
-27.5°	11795.4	11952.9	12048.9	12081.1	12048.9	11952.9	11795.4	11579.4	11309.3	10984.2	10613.6
-30°	11048.1	11193.1	11281.2	11310.7	11281.2	11193.1	11048.1	10848.7	10598.2	10297.4	9951.9
-32.5°	10286.2	10419.6	10500.5	10527.6	10500.5	10419.6	10286.2	10102.2	9870.2	9596.1	9283.9
-35°	9519.3	9638.6	9710.8	9735.0	9710.8	9638.6	9519.3	9354.5	9146.1	8897.0	8611.3
-37.5°	8762.8	8870.9	8936.3	8958.2	8936.3	8870.9	8762.8	8613.0	8423.2	8195.4	7936.8
-40°	8012.5	8109.6	8168.2	8187.8	8168.2	8109.6	8012.5	7877.9	7707.1	7501.5	7269.2
-42.5°	7278.5	7364.1	7415.8	7433.1	7415.8	7364.1	7278.5	7159.6	7008.4	6826.1	6617.6
-45°	6570.6	6646.1	6691.6	6706.8	6691.6	6646.1	6570.6	6465.6	6332.1	6170.8	5983.5
-47.5°	5887.5	5954.8	5995.4	6009.0	5995.4	5954.8	5887.5	5793.8	5674.3	5529.9	5361.3
-50°	5226.0	5283.7	5318.5	5330.1	5318.5	5283.7	5226.0	5145.6	5043.1	4919.0	4774.0
-52.5°	4604.9	4655.1	4685.3	4695.4	4685.3	4655.1	4604.9	4535.0	4445.7	4337.5	4210.9
-55°	4014.4	4057.6	4083.6	4092.3	4083.6	4057.6	4014.4	3954.2	3877.3	3784.0	3674.7
-57.5°	3458.5	3494.8	3516.6	3523.9	3516.6	3494.8	3458.5	3408.0	3343.4	3264.9	3173.0
-60°	2948.4	2976.9	2994.1	2999.8	2994.1	2976.9	2948.4	2908.6	2857.7	2795.9	2723.4
-62.5°	2505.2	2527.3	2540.7	2545.1	2540.7	2527.3	2505.2	2474.3	2434.7	2386.6	2330.2
-65°	2123.2	2140.0	2150.1	2153.5	2150.1	2140.0	2123.2	2099.8	2069.7	2033.2	1990.3
-67.5°	1798.9	1811.7	1819.4	1822.0	1819.4	1811.7	1798.9	1781.1	1758.2	1730.3	1697.6
-70°	1519.1	1529.5	1535.7	1537.8	1535.7	1529.5	1519.1	1504.6	1486.1	1463.5	1436.9
-72.5°	1260.7	1269.0	1274.0	1275.7	1274.0	1269.0	1260.7	1249.0	1234.1	1215.9	1194.5
-75°	1020.7	1027.3	1031.2	1032.5	1031.2	1027.3	1020.7	1011.6	999.9	985.7	968.9
-77.5°	799.8	804.6	807.4	808.4	807.4	804.6	799.8	793.0	784.4	774.0	761.7
-80°	603.4	606.7	608.7	609.4	608.7	606.7	603.4	598.7	592.8	585.5	577.0
-82.5°	431.6	433.9	435.3	435.8	435.3	433.9	431.6	428.3	424.1	418.9	412.9
-85°	269.2	270.5	271.3	271.6	271.3	270.5	269.2	267.3	264.8	261.9	258.4
-87.5°	128.4	129.0	129.4	129.5	129.4	129.0	128.4	127.5	126.4	125.1	123.5
-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: P624768 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-06-E-PRO-3000K-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°	121.7	119.6	117.4	114.9	112.1	109.2	106.1	102.7	99.2	95.5	91.6
85°	254.4	249.9	244.9	239.4	233.4	227.0	220.1	212.8	205.0	196.8	188.2
82.5°	405.9	398.1	389.4	379.9	369.5	358.3	346.3	333.6	320.1	305.9	291.0
80°	567.1	556.1	543.8	530.3	515.6	499.8	482.9	464.9	445.8	426.3	406.4
77.5°	747.5	731.6	713.9	694.5	673.4	650.6	626.3	601.6	577.7	552.6	526.3
75°	949.7	928.0	904.0	877.6	849.0	818.1	787.7	756.6	723.7	689.1	652.8
72.5°	1170.0	1142.4	1111.8	1078.2	1041.7	1004.8	966.2	925.1	881.7	836.1	790.6
70°	1406.5	1372.2	1334.2	1292.5	1249.4	1204.3	1156.1	1104.9	1050.9	997.1	942.5
67.5°	1660.1	1617.9	1571.2	1521.3	1470.1	1415.1	1356.3	1294.0	1231.6	1167.5	1100.6
65°	1941.2	1886.0	1824.8	1767.0	1704.8	1638.0	1566.7	1494.8	1421.4	1344.4	1264.8
62.5°	2265.6	2193.0	2118.9	2044.5	1964.0	1877.6	1790.7	1707.1	1619.1	1527.7	1438.9
60°	2640.5	2547.3	2458.4	2361.5	2256.7	2145.8	2044.5	1937.4	1824.8	1723.3	1617.9
57.5°	3067.8	2956.5	2843.5	2720.2	2587.0	2458.4	2327.7	2189.7	2061.4	1933.0	1802.6
55°	3550.0	3419.0	3276.8	3121.8	2960.5	2805.3	2640.5	2477.4	2320.3	2156.1	2011.3
52.5°	4068.0	3915.7	3748.0	3565.3	3380.6	3186.8	2983.8	2795.9	2599.1	2414.8	2231.3
50°	4613.0	4437.6	4244.5	4038.0	3825.3	3598.5	3371.3	3138.4	2908.6	2688.5	2472.1
47.5°	5180.0	4980.0	4760.3	4530.5	4287.3	4032.1	3774.3	3505.1	3244.4	2976.9	2733.6
45°	5775.8	5544.5	5293.5	5036.8	4761.7	4480.7	4187.9	3893.1	3591.6	3297.9	2999.8
42.5°	6386.7	6130.1	5853.8	5558.7	5248.9	4936.3	4611.6	4284.7	3953.0	3621.1	3297.9
40°	7009.5	6721.5	6419.1	6093.8	5753.9	5397.0	5042.3	4677.7	4317.1	3953.0	3591.6
37.5°	7645.3	7327.2	6989.7	6630.2	6259.7	5872.7	5474.7	5077.9	4677.7	4284.7	3893.1
35°	8290.0	7941.1	7564.9	7172.2	6761.0	6343.6	5912.6	5474.7	5042.3	4611.6	4187.9
32.5°	8934.3	8553.5	8142.9	7712.6	7264.5	6806.0	6343.6	5872.7	5397.0	4936.3	4480.7
30°	9569.9	9157.0	8714.8	8246.4	7762.3	7264.5	6761.0	6259.7	5753.9	5248.9	4761.7
27.5°	10198.4	9745.7	9270.4	8769.1	8246.4	7712.6	7172.2	6630.2	6093.8	5558.7	5036.8
25°	10806.9	10324.1	9806.2	9270.4	8714.8	8142.9	7564.9	6989.7	6419.1	5853.8	5293.5
22.5°	11386.5	10872.3	10324.1	9745.7	9157.0	8553.5	7941.1	7327.2	6721.5	6130.1	5544.5
20°	11929.8	11386.5	10806.9	10198.4	9569.9	8934.3	8290.0	7645.3	7009.5	6386.7	5775.8
17.5°	12433.7	11858.5	11251.1	10613.6	9951.9	9283.9	8611.3	7936.8	7269.2	6617.6	5983.5
15°	12893.0	12286.1	11648.3	10984.2	10297.4	9596.1	8897.0	8195.4	7501.5	6826.1	6170.8
12.5°	13289.7	12663.0	11997.9	11309.3	10598.2	9870.2	9146.1	8423.2	7707.1	7008.4	6332.1
10°	13627.4	12979.5	12291.5	11579.4	10848.7	10102.2	9354.5	8613.0	7877.9	7159.6	6465.6
7.5°	13886.4	13229.6	12526.3	11795.4	11048.1	10286.2	9519.3	8762.8	8012.5	7278.5	6570.6
5°	14078.9	13414.0	12698.5	11952.9	11193.1	10419.6	9638.6	8870.9	8109.6	7364.1	6646.1
2.5°	14197.6	13527.1	12803.6	12048.9	11281.2	10500.5	9710.8	8936.3	8168.2	7415.8	6691.6
0°	14237.8	13565.2	12839.0	12081.1	11310.7	10527.6	9735.0	8958.2	8187.8	7433.1	6706.8
-2.5°	14197.6	13527.1	12803.6	12048.9	11281.2	10500.5	9710.8	8936.3	8168.2	7415.8	6691.6
-5°	14078.9	13414.0	12698.5	11952.9	11193.1	10419.6	9638.6	8870.9	8109.6	7364.1	6646.1
-7.5°	13886.4	13229.6	12526.3	11795.4	11048.1	10286.2	9519.3	8762.8	8012.5	7278.5	6570.6
-10°	13627.4	12979.5	12291.5	11579.4	10848.7	10102.2	9354.5	8613.0	7877.9	7159.6	6465.6
-12.5°	13289.7	12663.0	11997.9	11309.3	10598.2	9870.2	9146.1	8423.2	7707.1	7008.4	6332.1
-15°	12893.0	12286.1	11648.3	10984.2	10297.4	9596.1	8897.0	8195.4	7501.5	6826.1	6170.8
-17.5°	12433.7	11858.5	11251.1	10613.6	9951.9	9283.9	8611.3	7936.8	7269.2	6617.6	5983.5
-20°	11929.8	11386.5	10806.9	10198.4	9569.9	8934.3	8290.0	7645.3	7009.5	6386.7	5775.8



REPORT NUMBER: P624768 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-VN-06-E-PRO-3000K-77

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	11386.5	10872.3	10324.1	9745.7	9157.0	8553.5	7941.1	7327.2	6721.5	6130.1	5544.5
-25°	10806.9	10324.1	9806.2	9270.4	8714.8	8142.9	7564.9	6989.7	6419.1	5853.8	5293.5
-27.5°	10198.4	9745.7	9270.4	8769.1	8246.4	7712.6	7172.2	6630.2	6093.8	5558.7	5036.8
-30°	9569.9	9157.0	8714.8	8246.4	7762.3	7264.5	6761.0	6259.7	5753.9	5248.9	4761.7
-32.5°	8934.3	8553.5	8142.9	7712.6	7264.5	6806.0	6343.6	5872.7	5397.0	4936.3	4480.7
-35°	8290.0	7941.1	7564.9	7172.2	6761.0	6343.6	5912.6	5474.7	5042.3	4611.6	4187.9
-37.5°	7645.3	7327.2	6989.7	6630.2	6259.7	5872.7	5474.7	5077.9	4677.7	4284.7	3893.1
-40°	7009.5	6721.5	6419.1	6093.8	5753.9	5397.0	5042.3	4677.7	4317.1	3953.0	3591.6
-42.5°	6386.7	6130.1	5853.8	5558.7	5248.9	4936.3	4611.6	4284.7	3953.0	3621.1	3297.9
-45°	5775.8	5544.5	5293.5	5036.8	4761.7	4480.7	4187.9	3893.1	3591.6	3297.9	2999.8
-47.5°	5180.0	4980.0	4760.3	4530.5	4287.3	4032.1	3774.3	3505.1	3244.4	2976.9	2733.6
-50°	4613.0	4437.6	4244.5	4038.0	3825.3	3598.5	3371.3	3138.4	2908.6	2688.5	2472.1
-52.5°	4068.0	3915.7	3748.0	3565.3	3380.6	3186.8	2983.8	2795.9	2599.1	2414.8	2231.3
-55°	3550.0	3419.0	3276.8	3121.8	2960.5	2805.3	2640.5	2477.4	2320.3	2156.1	2011.3
-57.5°	3067.8	2956.5	2843.5	2720.2	2587.0	2458.4	2327.7	2189.7	2061.4	1933.0	1802.6
-60°	2640.5	2547.3	2458.4	2361.5	2256.7	2145.8	2044.5	1937.4	1824.8	1723.3	1617.9
-62.5°	2265.6	2193.0	2118.9	2044.5	1964.0	1877.6	1790.7	1707.1	1619.1	1527.7	1438.9
-65°	1941.2	1886.0	1824.8	1767.0	1704.8	1638.0	1566.7	1494.8	1421.4	1344.4	1264.8
-67.5°	1660.1	1617.9	1571.2	1521.3	1470.1	1415.1	1356.3	1294.0	1231.6	1167.5	1100.6
-70°	1406.5	1372.2	1334.2	1292.5	1249.4	1204.3	1156.1	1104.9	1050.9	997.1	942.5
-72.5°	1170.0	1142.4	1111.8	1078.2	1041.7	1004.8	966.2	925.1	881.7	836.1	790.6
-75°	949.7	928.0	904.0	877.6	849.0	818.1	787.7	756.6	723.7	689.1	652.8
-77.5°	747.5	731.6	713.9	694.5	673.4	650.6	626.3	601.6	577.7	552.6	526.3
-80°	567.1	556.1	543.8	530.3	515.6	499.8	482.9	464.9	445.8	426.3	406.4
-82.5°	405.9	398.1	389.4	379.9	369.5	358.3	346.3	333.6	320.1	305.9	291.0
-85°	254.4	249.9	244.9	239.4	233.4	227.0	220.1	212.8	205.0	196.8	188.2
-87.5°	121.7	119.6	117.4	114.9	112.1	109.2	106.1	102.7	99.2	95.5	91.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P624768 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-VN-06-E-PRO-3000K-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°	87.5	83.2	78.8	74.3	69.6	64.7	59.8	54.7	49.5	44.3	38.9
85°	179.3	169.9	160.3	150.3	140.0	129.4	119.5	109.3	99.0	88.5	77.8
82.5°	275.5	261.0	246.4	231.4	216.0	200.1	183.8	167.1	150.1	132.8	116.5
80°	385.7	364.1	341.8	318.6	294.8	270.5	248.8	226.6	204.0	180.9	157.5
77.5°	498.9	470.3	440.8	411.6	381.8	351.3	319.9	287.9	257.5	228.7	199.5
75°	615.0	580.0	544.5	507.8	470.1	431.6	394.0	355.6	316.5	276.8	241.1
72.5°	746.4	700.5	653.0	604.7	560.7	515.5	469.2	422.7	377.2	330.9	283.9
70°	885.5	826.3	770.0	713.9	656.3	598.7	546.0	492.1	437.2	384.4	330.9
67.5°	1031.0	964.4	895.5	824.5	757.9	691.5	623.6	561.3	499.8	437.2	377.2
65°	1187.1	1106.7	1024.3	945.4	864.4	784.4	709.1	632.4	561.3	492.1	422.7
62.5°	1346.7	1252.9	1161.4	1067.3	975.6	884.5	793.3	709.1	623.6	546.0	469.2
60°	1510.8	1406.5	1298.9	1194.5	1089.3	985.7	884.5	784.4	691.5	598.7	515.5
57.5°	1683.8	1561.0	1442.6	1322.8	1205.6	1089.3	975.6	864.4	757.9	656.3	560.7
55°	1861.7	1723.6	1587.4	1454.7	1322.8	1194.5	1067.3	945.4	824.5	713.9	604.7
52.5°	2058.7	1893.0	1737.0	1587.4	1442.6	1298.9	1161.4	1024.3	895.5	770.0	653.0
50°	2269.1	2074.5	1893.0	1723.6	1561.0	1406.5	1252.9	1106.7	964.4	826.3	700.5
47.5°	2491.3	2269.1	2058.7	1861.7	1683.8	1510.8	1346.7	1187.1	1031.0	885.5	746.4
45°	2733.6	2472.1	2231.3	2011.3	1802.6	1617.9	1438.9	1264.8	1100.6	942.5	790.6
42.5°	2976.9	2688.5	2414.8	2156.1	1933.0	1723.3	1527.7	1344.4	1167.5	997.1	836.1
40°	3244.4	2908.6	2599.1	2320.3	2061.4	1824.8	1619.1	1421.4	1231.6	1050.9	881.7
37.5°	3505.1	3138.4	2795.9	2477.4	2189.7	1937.4	1707.1	1494.8	1294.0	1104.9	925.1
35°	3774.3	3371.3	2983.8	2640.5	2327.7	2044.5	1790.7	1566.7	1356.3	1156.1	966.2
32.5°	4032.1	3598.5	3186.8	2805.3	2458.4	2145.8	1877.6	1638.0	1415.1	1204.3	1004.8
30°	4287.3	3825.3	3380.6	2960.5	2587.0	2256.7	1964.0	1704.8	1470.1	1249.4	1041.7
27.5°	4530.5	4038.0	3565.3	3121.8	2720.2	2361.5	2044.5	1767.0	1521.3	1292.5	1078.2
25°	4760.3	4244.5	3748.0	3276.8	2843.5	2458.4	2118.9	1824.8	1571.2	1334.2	1111.8
22.5°	4980.0	4437.6	3915.7	3419.0	2956.5	2547.3	2193.0	1886.0	1617.9	1372.2	1142.4
20°	5180.0	4613.0	4068.0	3550.0	3067.8	2640.5	2265.6	1941.2	1660.1	1406.5	1170.0
17.5°	5361.3	4774.0	4210.9	3674.7	3173.0	2723.4	2330.2	1990.3	1697.6	1436.9	1194.5
15°	5529.9	4919.0	4337.5	3784.0	3264.9	2795.9	2386.6	2033.2	1730.3	1463.5	1215.9
12.5°	5674.3	5043.1	4445.7	3877.3	3343.4	2857.7	2434.7	2069.7	1758.2	1486.1	1234.1
10°	5793.8	5145.6	4535.0	3954.2	3408.0	2908.6	2474.3	2099.8	1781.1	1504.6	1249.0
7.5°	5887.5	5226.0	4604.9	4014.4	3458.5	2948.4	2505.2	2123.2	1798.9	1519.1	1260.7
5°	5954.8	5283.7	4655.1	4057.6	3494.8	2976.9	2527.3	2140.0	1811.7	1529.5	1269.0
2.5°	5995.4	5318.5	4685.3	4083.6	3516.6	2994.1	2540.7	2150.1	1819.4	1535.7	1274.0
0°	6009.0	5330.1	4695.4	4092.3	3523.9	2999.8	2545.1	2153.5	1822.0	1537.8	1275.7
-2.5°	5995.4	5318.5	4685.3	4083.6	3516.6	2994.1	2540.7	2150.1	1819.4	1535.7	1274.0
-5°	5954.8	5283.7	4655.1	4057.6	3494.8	2976.9	2527.3	2140.0	1811.7	1529.5	1269.0
-7.5°	5887.5	5226.0	4604.9	4014.4	3458.5	2948.4	2505.2	2123.2	1798.9	1519.1	1260.7
-10°	5793.8	5145.6	4535.0	3954.2	3408.0	2908.6	2474.3	2099.8	1781.1	1504.6	1249.0
-12.5°	5674.3	5043.1	4445.7	3877.3	3343.4	2857.7	2434.7	2069.7	1758.2	1486.1	1234.1
-15°	5529.9	4919.0	4337.5	3784.0	3264.9	2795.9	2386.6	2033.2	1730.3	1463.5	1215.9
-17.5°	5361.3	4774.0	4210.9	3674.7	3173.0	2723.4	2330.2	1990.3	1697.6	1436.9	1194.5
-20°	5180.0	4613.0	4068.0	3550.0	3067.8	2640.5	2265.6	1941.2	1660.1	1406.5	1170.0



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	4980.0	4437.6	3915.7	3419.0	2956.5	2547.3	2193.0	1886.0	1617.9	1372.2	1142.4
-25°	4760.3	4244.5	3748.0	3276.8	2843.5	2458.4	2118.9	1824.8	1571.2	1334.2	1111.8
-27.5°	4530.5	4038.0	3565.3	3121.8	2720.2	2361.5	2044.5	1767.0	1521.3	1292.5	1078.2
-30°	4287.3	3825.3	3380.6	2960.5	2587.0	2256.7	1964.0	1704.8	1470.1	1249.4	1041.7
-32.5°	4032.1	3598.5	3186.8	2805.3	2458.4	2145.8	1877.6	1638.0	1415.1	1204.3	1004.8
-35°	3774.3	3371.3	2983.8	2640.5	2327.7	2044.5	1790.7	1566.7	1356.3	1156.1	966.2
-37.5°	3505.1	3138.4	2795.9	2477.4	2189.7	1937.4	1707.1	1494.8	1294.0	1104.9	925.1
-40°	3244.4	2908.6	2599.1	2320.3	2061.4	1824.8	1619.1	1421.4	1231.6	1050.9	881.7
-42.5°	2976.9	2688.5	2414.8	2156.1	1933.0	1723.3	1527.7	1344.4	1167.5	997.1	836.1
-45°	2733.6	2472.1	2231.3	2011.3	1802.6	1617.9	1438.9	1264.8	1100.6	942.5	790.6
-47.5°	2491.3	2269.1	2058.7	1861.7	1683.8	1510.8	1346.7	1187.1	1031.0	885.5	746.4
-50°	2269.1	2074.5	1893.0	1723.6	1561.0	1406.5	1252.9	1106.7	964.4	826.3	700.5
-52.5°	2058.7	1893.0	1737.0	1587.4	1442.6	1298.9	1161.4	1024.3	895.5	770.0	653.0
-55°	1861.7	1723.6	1587.4	1454.7	1322.8	1194.5	1067.3	945.4	824.5	713.9	604.7
-57.5°	1683.8	1561.0	1442.6	1322.8	1205.6	1089.3	975.6	864.4	757.9	656.3	560.7
-60°	1510.8	1406.5	1298.9	1194.5	1089.3	985.7	884.5	784.4	691.5	598.7	515.5
-62.5°	1346.7	1252.9	1161.4	1067.3	975.6	884.5	793.3	709.1	623.6	546.0	469.2
-65°	1187.1	1106.7	1024.3	945.4	864.4	784.4	709.1	632.4	561.3	492.1	422.7
-67.5°	1031.0	964.4	895.5	824.5	757.9	691.5	623.6	561.3	499.8	437.2	377.2
-70°	885.5	826.3	770.0	713.9	656.3	598.7	546.0	492.1	437.2	384.4	330.9
-72.5°	746.4	700.5	653.0	604.7	560.7	515.5	469.2	422.7	377.2	330.9	283.9
-75°	615.0	580.0	544.5	507.8	470.1	431.6	394.0	355.6	316.5	276.8	241.1
-77.5°	498.9	470.3	440.8	411.6	381.8	351.3	319.9	287.9	257.5	228.7	199.5
-80°	385.7	364.1	341.8	318.6	294.8	270.5	248.8	226.6	204.0	180.9	157.5
-82.5°	275.5	261.0	246.4	231.4	216.0	200.1	183.8	167.1	150.1	132.8	116.5
-85°	179.3	169.9	160.3	150.3	140.0	129.4	119.5	109.3	99.0	88.5	77.8
-87.5°	87.5	83.2	78.8	74.3	69.6	64.7	59.8	54.7	49.5	44.3	38.9
-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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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°	33.5	28.0	22.5	16.9	11.3	5.6	0.0
85°	67.0	56.0	44.9	33.8	22.5	11.3	0.0
82.5°	100.3	83.9	67.3	50.6	33.8	16.9	0.0
80°	133.8	111.6	89.5	67.3	44.9	22.5	0.0
77.5°	169.9	140.0	111.6	83.9	56.0	28.0	0.0
75°	205.7	169.9	133.8	100.3	67.0	33.5	0.0
72.5°	241.1	199.5	157.5	116.5	77.8	38.9	0.0
70°	276.8	228.7	180.9	132.8	88.5	44.3	0.0
67.5°	316.5	257.5	204.0	150.1	99.0	49.5	0.0
65°	355.6	287.9	226.6	167.1	109.3	54.7	0.0
62.5°	394.0	319.9	248.8	183.8	119.5	59.8	0.0
60°	431.6	351.3	270.5	200.1	129.4	64.7	0.0
57.5°	470.1	381.8	294.8	216.0	140.0	69.6	0.0
55°	507.8	411.6	318.6	231.4	150.3	74.3	0.0
52.5°	544.5	440.8	341.8	246.4	160.3	78.8	0.0
50°	580.0	470.3	364.1	261.0	169.9	83.2	0.0
47.5°	615.0	498.9	385.7	275.5	179.3	87.5	0.0
45°	652.8	526.3	406.4	291.0	188.2	91.6	0.0
42.5°	689.1	552.6	426.3	305.9	196.8	95.5	0.0
40°	723.7	577.7	445.8	320.1	205.0	99.2	0.0
37.5°	756.6	601.6	464.9	333.6	212.8	102.7	0.0
35°	787.7	626.3	482.9	346.3	220.1	106.1	0.0
32.5°	818.1	650.6	499.8	358.3	227.0	109.2	0.0
30°	849.0	673.4	515.6	369.5	233.4	112.1	0.0
27.5°	877.6	694.5	530.3	379.9	239.4	114.9	0.0
25°	904.0	713.9	543.8	389.4	244.9	117.4	0.0
22.5°	928.0	731.6	556.1	398.1	249.9	119.6	0.0
20°	949.7	747.5	567.1	405.9	254.4	121.7	0.0
17.5°	968.9	761.7	577.0	412.9	258.4	123.5	0.0
15°	985.7	774.0	585.5	418.9	261.9	125.1	0.0
12.5°	999.9	784.4	592.8	424.1	264.8	126.4	0.0
10°	1011.6	793.0	598.7	428.3	267.3	127.5	0.0
7.5°	1020.7	799.8	603.4	431.6	269.2	128.4	0.0
5°	1027.3	804.6	606.7	433.9	270.5	129.0	0.0
2.5°	1031.2	807.4	608.7	435.3	271.3	129.4	0.0
0°	1032.5	808.4	609.4	435.8	271.6	129.5	0.0
-2.5°	1031.2	807.4	608.7	435.3	271.3	129.4	0.0
-5°	1027.3	804.6	606.7	433.9	270.5	129.0	0.0
-7.5°	1020.7	799.8	603.4	431.6	269.2	128.4	0.0
-10°	1011.6	793.0	598.7	428.3	267.3	127.5	0.0
-12.5°	999.9	784.4	592.8	424.1	264.8	126.4	0.0
-15°	985.7	774.0	585.5	418.9	261.9	125.1	0.0
-17.5°	968.9	761.7	577.0	412.9	258.4	123.5	0.0
-20°	949.7	747.5	567.1	405.9	254.4	121.7	0.0

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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	928.0	731.6	556.1	398.1	249.9	119.6	0.0
-25°	904.0	713.9	543.8	389.4	244.9	117.4	0.0
-27.5°	877.6	694.5	530.3	379.9	239.4	114.9	0.0
-30°	849.0	673.4	515.6	369.5	233.4	112.1	0.0
-32.5°	818.1	650.6	499.8	358.3	227.0	109.2	0.0
-35°	787.7	626.3	482.9	346.3	220.1	106.1	0.0
-37.5°	756.6	601.6	464.9	333.6	212.8	102.7	0.0
-40°	723.7	577.7	445.8	320.1	205.0	99.2	0.0
-42.5°	689.1	552.6	426.3	305.9	196.8	95.5	0.0
-45°	652.8	526.3	406.4	291.0	188.2	91.6	0.0
-47.5°	615.0	498.9	385.7	275.5	179.3	87.5	0.0
-50°	580.0	470.3	364.1	261.0	169.9	83.2	0.0
-52.5°	544.5	440.8	341.8	246.4	160.3	78.8	0.0
-55°	507.8	411.6	318.6	231.4	150.3	74.3	0.0
-57.5°	470.1	381.8	294.8	216.0	140.0	69.6	0.0
-60°	431.6	351.3	270.5	200.1	129.4	64.7	0.0
-62.5°	394.0	319.9	248.8	183.8	119.5	59.8	0.0
-65°	355.6	287.9	226.6	167.1	109.3	54.7	0.0
-67.5°	316.5	257.5	204.0	150.1	99.0	49.5	0.0
-70°	276.8	228.7	180.9	132.8	88.5	44.3	0.0
-72.5°	241.1	199.5	157.5	116.5	77.8	38.9	0.0
-75°	205.7	169.9	133.8	100.3	67.0	33.5	0.0
-77.5°	169.9	140.0	111.6	83.9	56.0	28.0	0.0
-80°	133.8	111.6	89.5	67.3	44.9	22.5	0.0
-82.5°	100.3	83.9	67.3	50.6	33.8	16.9	0.0
-85°	67.0	56.0	44.9	33.8	22.5	11.3	0.0
-87.5°	33.5	28.0	22.5	16.9	11.3	5.6	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)