

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: P624747 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-VN-04-E-PRO-3000K-77**

Issue Date: 11/8/2022



Test Information

Test Method: LM-79-08
Report Number: P624747 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-765-15)
Test Lab: INNOVATION CENTER
Issue Date: 11/8/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-04-E-PRO-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
Luminaire Lumens: 20187.2 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')

Beam Angle (50%): 78.6°H x 78.6°V
Beam Lumens: 11647 lumens
Beam Efficiency: 57.7%

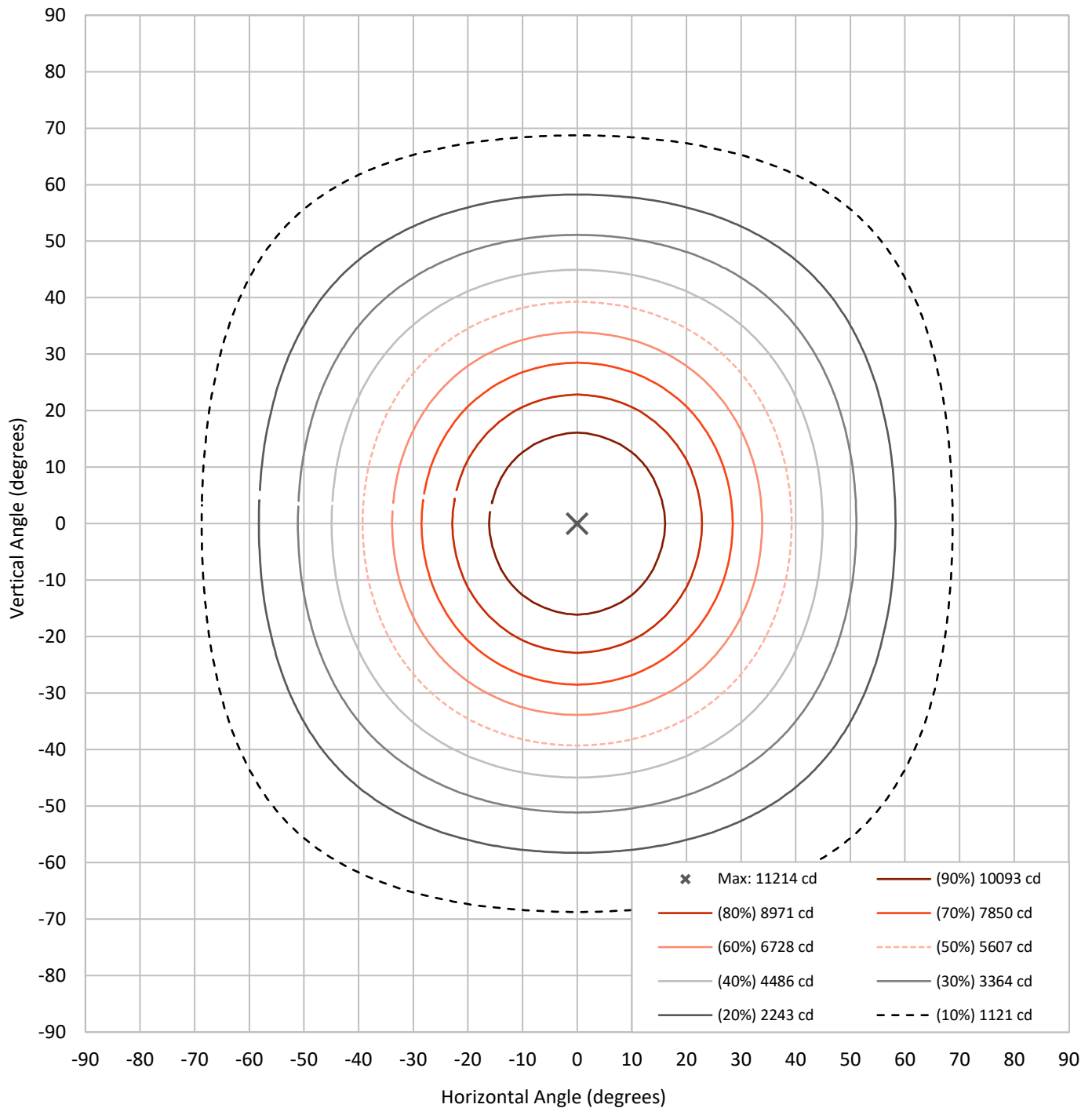
Field Angle (10%): 137.5°H x 137.5°V
Field Lumens: 19071.1 lumens
Field Efficiency: 94.5%

NEMA Type: 7H x 7V
Max Intensity: 11214 candela
Max Intensity Angle: 0°H x 0°V

Input Watts (W): 163.5
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: P624747 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: EPH-VN-04-E-PRO-3000K-77

Iso-Candela Plot





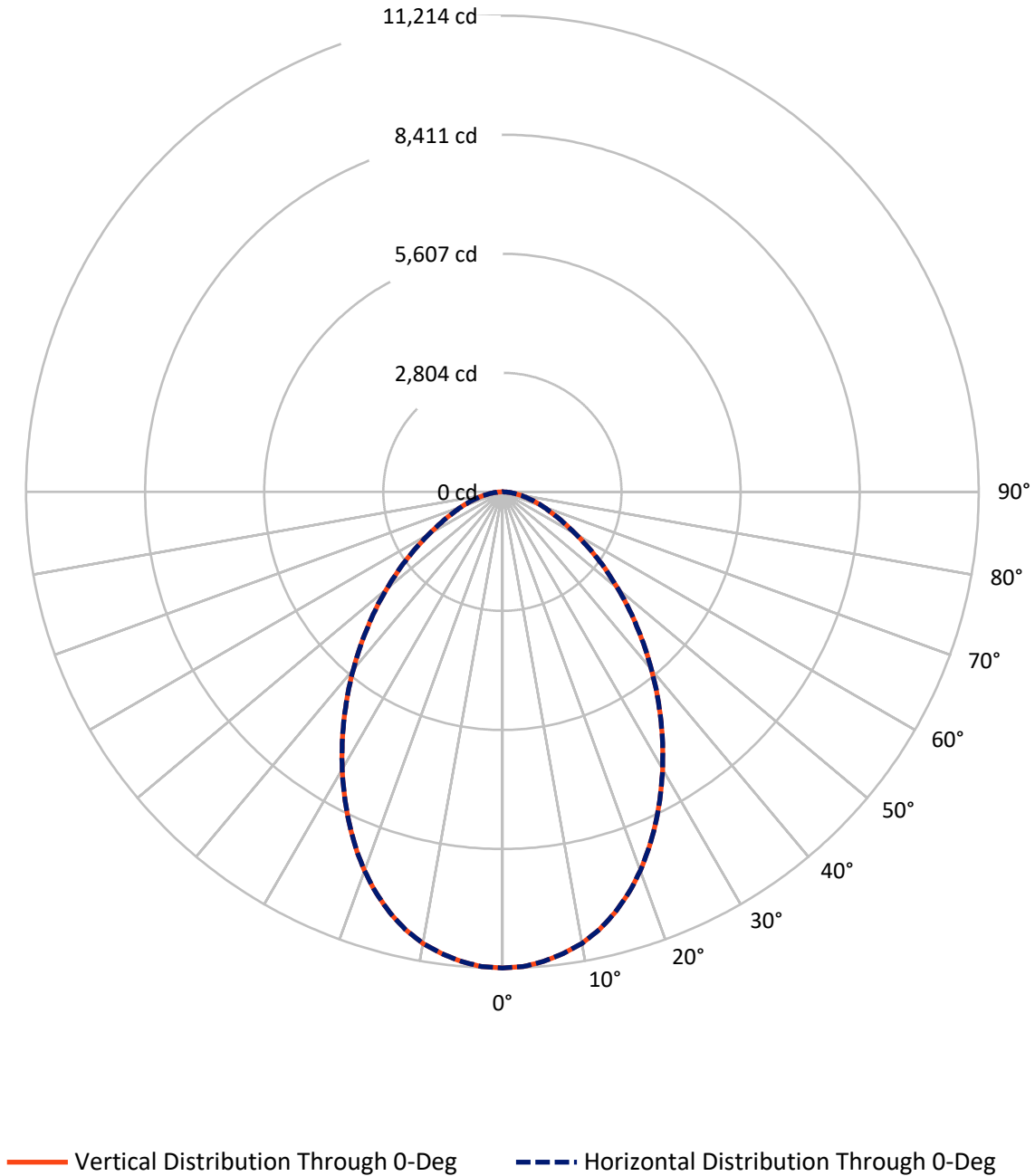
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Lumen Table

90																			
80	1.7	11.8	29.4	46.5	53.5	46.5	29.4	11.8	1.7										
70																			
60	5.3	5.5	11.1	18.3	26.3	34.1	40.5	44.0	44.0	40.5	34.1	26.3	18.3	11.1	5.5				5.3
50																			
40	9.0	8.3	17.1	29.2	44.4	60.7	74.5	82.3	82.3	74.5	60.7	44.4	29.2	17.1	8.3				9.0
30																			
20	11.7	11.1	23.8	43.6	69.8	97.5	120.8	134.2	134.2	120.8	97.5	69.8	43.6	23.8	11.1				11.7
10																			
0	12.8	13.7	31.3	60.4	98.4	139.0	173.8	194.2	194.2	173.8	139.0	98.4	60.4	31.3	13.7				12.8
-10																			
-20	11.7	16.1	38.8	76.4	125.8	179.9	227.2	255.1	255.1	227.2	179.9	125.8	76.4	38.8	16.1				11.7
-30																			
-40	9.0	18.0	44.7	88.9	147.8	213.4	271.4	305.0	305.0	271.4	213.4	147.8	88.9	44.7	18.0				9.0
-50																			
-60	5.3	19.0	47.9	95.8	160.1	232.4	295.8	330.9	330.9	295.8	232.4	160.1	95.8	47.9	19.0				5.3
-70																			
-80	1.7	5.5	11.1	18.3	26.3	34.1	40.5	44.0	44.0	40.5	34.1	26.3	18.3	11.1	5.5				1.7
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

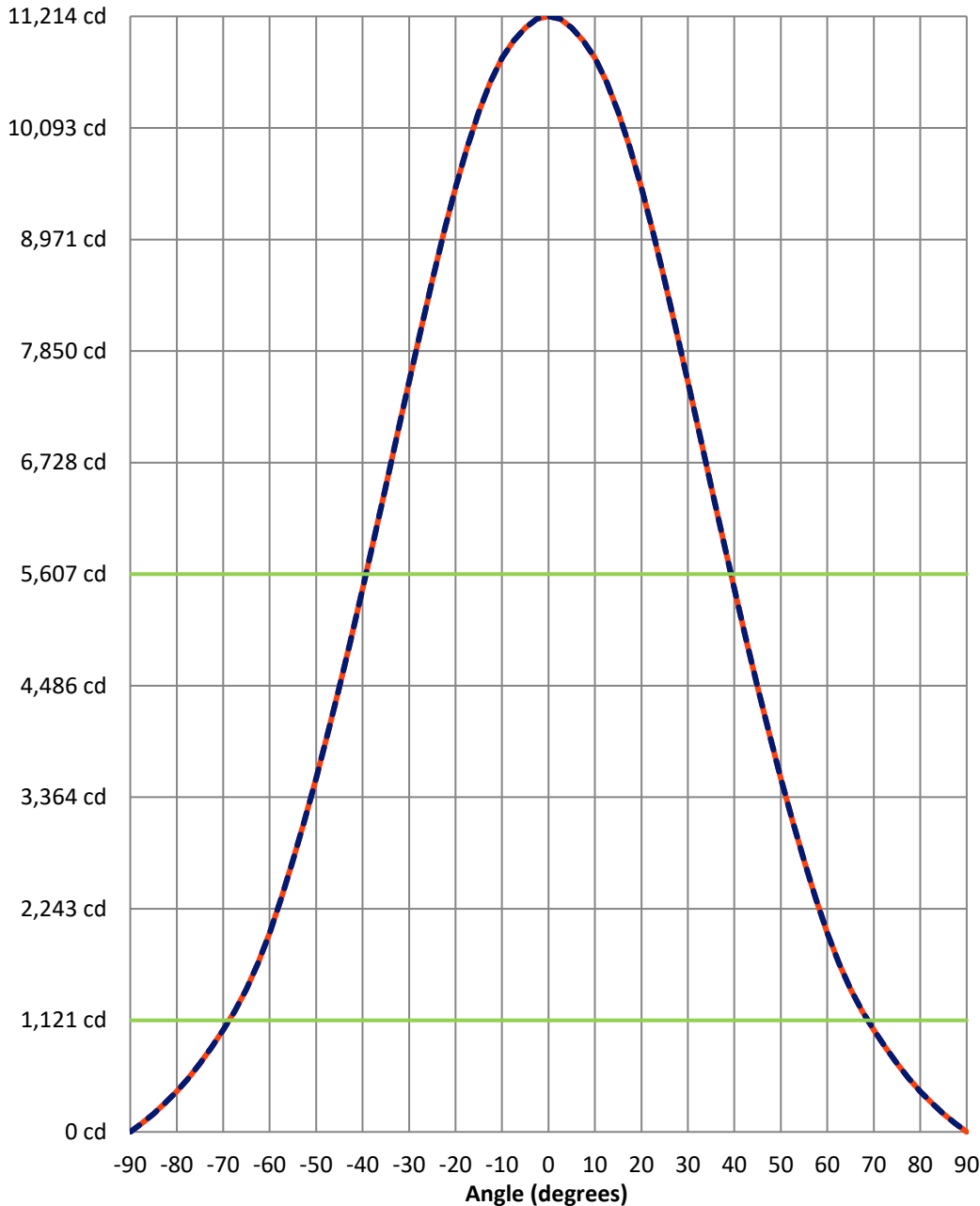
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 78.6°
 V Angle: 78.6°
 Lumens: 11647
 Efficiency: 57.7%

Field:
 H Angle: 137.5°
 V Angle: 137.5°
 Lumens: 19071.1
 Efficiency: 94.5%

Spill:
 Lumens: 1116.2
 Efficiency: 5.5%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-Deg

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Scaled Data Report



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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	3.8	7.5	11.3	15.0	18.7	22.3	25.9	29.5	33.0	36.5
85°	0.0	7.5	15.0	22.5	29.9	37.3	44.6	51.8	59.0	66.0	72.9
82.5°	0.0	11.3	22.5	33.7	44.8	55.9	66.8	77.7	88.5	100.1	111.4
80°	0.0	15.0	29.9	44.8	59.6	74.4	89.2	105.0	120.6	135.9	151.0
77.5°	0.0	18.7	37.3	55.9	74.4	93.3	113.2	133.0	152.4	171.6	191.9
75°	0.0	22.3	44.6	66.8	89.2	113.2	137.1	160.7	184.4	211.0	237.0
72.5°	0.0	25.9	51.8	77.7	105.0	133.0	160.7	189.2	220.6	251.4	281.8
70°	0.0	29.5	59.0	88.5	120.6	152.4	184.4	220.6	256.2	291.5	328.1
67.5°	0.0	33.0	66.0	100.1	135.9	171.6	211.0	251.4	291.5	333.2	374.2
65°	0.0	36.5	72.9	111.4	151.0	191.9	237.0	281.8	328.1	374.2	421.6
62.5°	0.0	39.8	79.6	122.5	165.8	213.2	262.6	312.8	364.0	415.7	472.8
60°	0.0	43.1	86.2	133.3	180.3	234.1	287.7	343.6	399.2	461.0	522.9
57.5°	0.0	46.4	93.3	143.9	196.5	254.5	313.4	373.8	437.6	505.2	576.3
55°	0.0	49.5	100.1	154.2	212.4	274.4	338.5	403.1	476.0	549.6	630.3
52.5°	0.0	52.5	106.8	164.2	227.8	293.8	363.0	435.4	513.3	597.0	682.9
50°	0.0	55.5	113.3	173.9	242.7	313.5	386.7	467.0	550.9	643.0	737.9
47.5°	0.0	58.3	119.5	183.6	257.1	332.6	410.0	497.6	590.3	687.4	791.5
45°	0.0	61.0	125.4	194.0	270.9	350.9	435.2	527.1	628.3	733.8	843.2
42.5°	0.0	63.6	131.2	203.9	284.2	368.4	459.4	557.4	664.8	778.4	896.3
40°	0.0	66.1	136.6	213.3	297.2	385.2	482.4	587.8	700.6	821.1	947.6
37.5°	0.0	68.5	141.8	222.3	309.9	401.1	504.4	616.8	736.7	862.7	996.5
35°	0.0	70.7	146.7	230.8	321.9	417.6	525.1	644.2	770.8	904.2	1044.5
32.5°	0.0	72.8	151.3	238.8	333.2	433.8	545.4	669.9	802.9	943.4	1092.0
30°	0.0	74.7	155.6	246.3	343.7	448.9	566.0	694.6	833.0	980.1	1136.6
27.5°	0.0	76.5	159.6	253.2	353.5	463.0	585.1	718.9	861.7	1014.2	1178.0
25°	0.0	78.2	163.2	259.6	362.5	475.9	602.7	741.2	889.5	1047.4	1216.6
22.5°	0.0	79.7	166.6	265.4	370.7	487.7	618.7	761.7	914.8	1078.6	1257.3
20°	0.0	81.1	169.6	270.6	378.1	498.3	633.2	780.1	937.7	1106.8	1294.2
17.5°	0.0	82.3	172.2	275.2	384.7	507.8	646.0	796.4	958.0	1131.8	1326.9
15°	0.0	83.4	174.5	279.2	390.4	516.0	657.2	810.7	975.7	1153.6	1355.5
12.5°	0.0	84.3	176.5	282.7	395.2	522.9	666.7	822.8	990.7	1172.1	1379.9
10°	0.0	85.0	178.1	285.5	399.2	528.7	674.5	832.7	1003.1	1187.4	1399.9
7.5°	0.0	85.6	179.4	287.7	402.3	533.1	680.5	840.5	1012.7	1199.3	1415.5
5°	0.0	86.0	180.3	289.2	404.5	536.3	684.9	846.0	1019.7	1207.9	1426.7
2.5°	0.0	86.2	180.8	290.2	405.9	538.3	687.5	849.4	1023.8	1213.0	1433.5
0°	0.0	86.3	181.0	290.5	406.3	538.9	688.4	850.5	1025.2	1214.7	1435.7
-2.5°	0.0	86.2	180.8	290.2	405.9	538.3	687.5	849.4	1023.8	1213.0	1433.5
-5°	0.0	86.0	180.3	289.2	404.5	536.3	684.9	846.0	1019.7	1207.9	1426.7
-7.5°	0.0	85.6	179.4	287.7	402.3	533.1	680.5	840.5	1012.7	1199.3	1415.5
-10°	0.0	85.0	178.1	285.5	399.2	528.7	674.5	832.7	1003.1	1187.4	1399.9
-12.5°	0.0	84.3	176.5	282.7	395.2	522.9	666.7	822.8	990.7	1172.1	1379.9
-15°	0.0	83.4	174.5	279.2	390.4	516.0	657.2	810.7	975.7	1153.6	1355.5
-17.5°	0.0	82.3	172.2	275.2	384.7	507.8	646.0	796.4	958.0	1131.8	1326.9
-20°	0.0	81.1	169.6	270.6	378.1	498.3	633.2	780.1	937.7	1106.8	1294.2



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 CATALOG NUMBER: EPH-VN-04-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	79.7	166.6	265.4	370.7	487.7	618.7	761.7	914.8	1078.6	1257.3
-25°	0.0	78.2	163.2	259.6	362.5	475.9	602.7	741.2	889.5	1047.4	1216.6
-27.5°	0.0	76.5	159.6	253.2	353.5	463.0	585.1	718.9	861.7	1014.2	1178.0
-30°	0.0	74.7	155.6	246.3	343.7	448.9	566.0	694.6	833.0	980.1	1136.6
-32.5°	0.0	72.8	151.3	238.8	333.2	433.8	545.4	669.9	802.9	943.4	1092.0
-35°	0.0	70.7	146.7	230.8	321.9	417.6	525.1	644.2	770.8	904.2	1044.5
-37.5°	0.0	68.5	141.8	222.3	309.9	401.1	504.4	616.8	736.7	862.7	996.5
-40°	0.0	66.1	136.6	213.3	297.2	385.2	482.4	587.8	700.6	821.1	947.6
-42.5°	0.0	63.6	131.2	203.9	284.2	368.4	459.4	557.4	664.8	778.4	896.3
-45°	0.0	61.0	125.4	194.0	270.9	350.9	435.2	527.1	628.3	733.8	843.2
-47.5°	0.0	58.3	119.5	183.6	257.1	332.6	410.0	497.6	590.3	687.4	791.5
-50°	0.0	55.5	113.3	173.9	242.7	313.5	386.7	467.0	550.9	643.0	737.9
-52.5°	0.0	52.5	106.8	164.2	227.8	293.8	363.0	435.4	513.3	597.0	682.9
-55°	0.0	49.5	100.1	154.2	212.4	274.4	338.5	403.1	476.0	549.6	630.3
-57.5°	0.0	46.4	93.3	143.9	196.5	254.5	313.4	373.8	437.6	505.2	576.3
-60°	0.0	43.1	86.2	133.3	180.3	234.1	287.7	343.6	399.2	461.0	522.9
-62.5°	0.0	39.8	79.6	122.5	165.8	213.2	262.6	312.8	364.0	415.7	472.8
-65°	0.0	36.5	72.9	111.4	151.0	191.9	237.0	281.8	328.1	374.2	421.6
-67.5°	0.0	33.0	66.0	100.1	135.9	171.6	211.0	251.4	291.5	333.2	374.2
-70°	0.0	29.5	59.0	88.5	120.6	152.4	184.4	220.6	256.2	291.5	328.1
-72.5°	0.0	25.9	51.8	77.7	105.0	133.0	160.7	189.2	220.6	251.4	281.8
-75°	0.0	22.3	44.6	66.8	89.2	113.2	137.1	160.7	184.4	211.0	237.0
-77.5°	0.0	18.7	37.3	55.9	74.4	93.3	113.2	133.0	152.4	171.6	191.9
-80°	0.0	15.0	29.9	44.8	59.6	74.4	89.2	105.0	120.6	135.9	151.0
-82.5°	0.0	11.3	22.5	33.7	44.8	55.9	66.8	77.7	88.5	100.1	111.4
-85°	0.0	7.5	15.0	22.5	29.9	37.3	44.6	51.8	59.0	66.0	72.9
-87.5°	0.0	3.8	7.5	11.3	15.0	18.7	22.3	25.9	29.5	33.0	36.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: EPH-VN-04-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°	39.8	43.1	46.4	49.5	52.5	55.5	58.3	61.0	63.6	66.1	68.5
85°	79.6	86.2	93.3	100.1	106.8	113.3	119.5	125.4	131.2	136.6	141.8
82.5°	122.5	133.3	143.9	154.2	164.2	173.9	183.6	194.0	203.9	213.3	222.3
80°	165.8	180.3	196.5	212.4	227.8	242.7	257.1	270.9	284.2	297.2	309.9
77.5°	213.2	234.1	254.5	274.4	293.8	313.5	332.6	350.9	368.4	385.2	401.1
75°	262.6	287.7	313.4	338.5	363.0	386.7	410.0	435.2	459.4	482.4	504.4
72.5°	312.8	343.6	373.8	403.1	435.4	467.0	497.6	527.1	557.4	587.8	616.8
70°	364.0	399.2	437.6	476.0	513.3	550.9	590.3	628.3	664.8	700.6	736.7
67.5°	415.7	461.0	505.2	549.6	597.0	643.0	687.4	733.8	778.4	821.1	862.7
65°	472.8	522.9	576.3	630.3	682.9	737.9	791.5	843.2	896.3	947.6	996.5
62.5°	528.9	589.6	650.4	711.6	774.3	835.3	897.8	959.3	1018.5	1079.4	1138.1
60°	589.6	657.2	726.3	796.4	865.9	937.7	1007.2	1078.6	1148.9	1216.6	1291.7
57.5°	650.4	726.3	803.8	881.9	961.8	1040.7	1122.5	1201.8	1288.7	1374.3	1459.8
55°	711.6	796.4	881.9	969.8	1058.3	1149.1	1241.1	1340.9	1437.5	1546.8	1651.6
52.5°	774.3	865.9	961.8	1058.3	1158.0	1262.1	1372.5	1487.6	1609.9	1732.7	1864.0
50°	835.3	937.7	1040.7	1149.1	1262.1	1383.1	1512.8	1648.1	1792.3	1939.1	2092.3
47.5°	897.8	1007.2	1122.5	1241.1	1372.5	1512.8	1660.8	1822.4	1984.6	2163.0	2336.8
45°	959.3	1078.6	1201.8	1340.9	1487.6	1648.1	1822.4	1999.9	2198.6	2394.4	2595.4
42.5°	1018.5	1148.9	1288.7	1437.5	1609.9	1792.3	1984.6	2198.6	2414.1	2635.4	2856.5
40°	1079.4	1216.6	1374.3	1546.8	1732.7	1939.1	2163.0	2394.4	2635.4	2878.1	3118.5
37.5°	1138.1	1291.7	1459.8	1651.6	1864.0	2092.3	2336.8	2595.4	2856.5	3118.5	3385.3
35°	1193.8	1363.1	1551.8	1760.3	1989.2	2247.6	2516.2	2791.9	3074.5	3361.6	3649.9
32.5°	1251.8	1430.5	1638.9	1870.2	2124.6	2399.0	2688.1	2987.2	3290.9	3598.1	3915.3
30°	1309.4	1504.5	1724.7	1973.7	2253.8	2550.2	2858.2	3174.5	3499.4	3836.1	4173.2
27.5°	1363.1	1574.3	1813.5	2081.2	2376.9	2692.0	3020.4	3357.9	3705.9	4062.6	4420.3
25°	1412.6	1638.9	1895.7	2184.6	2498.7	2829.7	3173.5	3529.1	3902.6	4279.5	4659.9
22.5°	1462.0	1698.2	1971.0	2279.4	2610.5	2958.4	3320.0	3696.4	4086.9	4481.1	4884.9
20°	1510.4	1760.3	2045.2	2366.7	2712.0	3075.4	3453.4	3850.6	4257.9	4673.1	5096.9
17.5°	1553.5	1815.6	2115.3	2449.9	2807.3	3182.7	3574.3	3989.1	4411.9	4846.2	5291.2
15°	1591.1	1864.0	2176.6	2522.7	2891.7	3279.4	3686.7	4113.9	4550.8	5001.1	5463.7
12.5°	1623.1	1905.2	2228.9	2584.9	2963.8	3362.2	3783.0	4221.5	4672.3	5138.1	5615.6
10°	1649.5	1939.1	2272.0	2636.2	3023.3	3430.5	3862.6	4310.5	4773.1	5252.0	5742.1
7.5°	1670.1	1965.6	2305.7	2676.3	3070.0	3484.1	3925.1	4380.5	4852.4	5341.7	5841.9
5°	1684.9	1984.6	2329.9	2705.1	3103.4	3522.6	3970.0	4430.8	4909.5	5406.5	5914.0
2.5°	1693.7	1996.1	2344.4	2722.4	3123.6	3545.8	3997.1	4461.2	4944.0	5445.5	5957.6
0°	1696.7	1999.9	2349.3	2728.2	3130.3	3553.5	4006.1	4471.3	4955.5	5458.6	5972.2
-2.5°	1693.7	1996.1	2344.4	2722.4	3123.6	3545.8	3997.1	4461.2	4944.0	5445.5	5957.6
-5°	1684.9	1984.6	2329.9	2705.1	3103.4	3522.6	3970.0	4430.8	4909.5	5406.5	5914.0
-7.5°	1670.1	1965.6	2305.7	2676.3	3070.0	3484.1	3925.1	4380.5	4852.4	5341.7	5841.9
-10°	1649.5	1939.1	2272.0	2636.2	3023.3	3430.5	3862.6	4310.5	4773.1	5252.0	5742.1
-12.5°	1623.1	1905.2	2228.9	2584.9	2963.8	3362.2	3783.0	4221.5	4672.3	5138.1	5615.6
-15°	1591.1	1864.0	2176.6	2522.7	2891.7	3279.4	3686.7	4113.9	4550.8	5001.1	5463.7
-17.5°	1553.5	1815.6	2115.3	2449.9	2807.3	3182.7	3574.3	3989.1	4411.9	4846.2	5291.2
-20°	1510.4	1760.3	2045.2	2366.7	2712.0	3075.4	3453.4	3850.6	4257.9	4673.1	5096.9

Classified

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

Scaled Data Report



REPORT NUMBER: P624747 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-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°	1462.0	1698.2	1971.0	2279.4	2610.5	2958.4	3320.0	3696.4	4086.9	4481.1	4884.9
-25°	1412.6	1638.9	1895.7	2184.6	2498.7	2829.7	3173.5	3529.1	3902.6	4279.5	4659.9
-27.5°	1363.1	1574.3	1813.5	2081.2	2376.9	2692.0	3020.4	3357.9	3705.9	4062.6	4420.3
-30°	1309.4	1504.5	1724.7	1973.7	2253.8	2550.2	2858.2	3174.5	3499.4	3836.1	4173.2
-32.5°	1251.8	1430.5	1638.9	1870.2	2124.6	2399.0	2688.1	2987.2	3290.9	3598.1	3915.3
-35°	1193.8	1363.1	1551.8	1760.3	1989.2	2247.6	2516.2	2791.9	3074.5	3361.6	3649.9
-37.5°	1138.1	1291.7	1459.8	1651.6	1864.0	2092.3	2336.8	2595.4	2856.5	3118.5	3385.3
-40°	1079.4	1216.6	1374.3	1546.8	1732.7	1939.1	2163.0	2394.4	2635.4	2878.1	3118.5
-42.5°	1018.5	1148.9	1288.7	1437.5	1609.9	1792.3	1984.6	2198.6	2414.1	2635.4	2856.5
-45°	959.3	1078.6	1201.8	1340.9	1487.6	1648.1	1822.4	1999.9	2198.6	2394.4	2595.4
-47.5°	897.8	1007.2	1122.5	1241.1	1372.5	1512.8	1660.8	1822.4	1984.6	2163.0	2336.8
-50°	835.3	937.7	1040.7	1149.1	1262.1	1383.1	1512.8	1648.1	1792.3	1939.1	2092.3
-52.5°	774.3	865.9	961.8	1058.3	1158.0	1262.1	1372.5	1487.6	1609.9	1732.7	1864.0
-55°	711.6	796.4	881.9	969.8	1058.3	1149.1	1241.1	1340.9	1437.5	1546.8	1651.6
-57.5°	650.4	726.3	803.8	881.9	961.8	1040.7	1122.5	1201.8	1288.7	1374.3	1459.8
-60°	589.6	657.2	726.3	796.4	865.9	937.7	1007.2	1078.6	1148.9	1216.6	1291.7
-62.5°	528.9	589.6	650.4	711.6	774.3	835.3	897.8	959.3	1018.5	1079.4	1138.1
-65°	472.8	522.9	576.3	630.3	682.9	737.9	791.5	843.2	896.3	947.6	996.5
-67.5°	415.7	461.0	505.2	549.6	597.0	643.0	687.4	733.8	778.4	821.1	862.7
-70°	364.0	399.2	437.6	476.0	513.3	550.9	590.3	628.3	664.8	700.6	736.7
-72.5°	312.8	343.6	373.8	403.1	435.4	467.0	497.6	527.1	557.4	587.8	616.8
-75°	262.6	287.7	313.4	338.5	363.0	386.7	410.0	435.2	459.4	482.4	504.4
-77.5°	213.2	234.1	254.5	274.4	293.8	313.5	332.6	350.9	368.4	385.2	401.1
-80°	165.8	180.3	196.5	212.4	227.8	242.7	257.1	270.9	284.2	297.2	309.9
-82.5°	122.5	133.3	143.9	154.2	164.2	173.9	183.6	194.0	203.9	213.3	222.3
-85°	79.6	86.2	93.3	100.1	106.8	113.3	119.5	125.4	131.2	136.6	141.8
-87.5°	39.8	43.1	46.4	49.5	52.5	55.5	58.3	61.0	63.6	66.1	68.5
-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: P624747 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-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°	70.7	72.8	74.7	76.5	78.2	79.7	81.1	82.3	83.4	84.3	85.0
85°	146.7	151.3	155.6	159.6	163.2	166.6	169.6	172.2	174.5	176.5	178.1
82.5°	230.8	238.8	246.3	253.2	259.6	265.4	270.6	275.2	279.2	282.7	285.5
80°	321.9	333.2	343.7	353.5	362.5	370.7	378.1	384.7	390.4	395.2	399.2
77.5°	417.6	433.8	448.9	463.0	475.9	487.7	498.3	507.8	516.0	522.9	528.7
75°	525.1	545.4	566.0	585.1	602.7	618.7	633.2	646.0	657.2	666.7	674.5
72.5°	644.2	669.9	694.6	718.9	741.2	761.7	780.1	796.4	810.7	822.8	832.7
70°	770.8	802.9	833.0	861.7	889.5	914.8	937.7	958.0	975.7	990.7	1003.1
67.5°	904.2	943.4	980.1	1014.2	1047.4	1078.6	1106.8	1131.8	1153.6	1172.1	1187.4
65°	1044.5	1092.0	1136.6	1178.0	1216.6	1257.3	1294.2	1326.9	1355.5	1379.9	1399.9
62.5°	1193.8	1251.8	1309.4	1363.1	1412.6	1462.0	1510.4	1553.5	1591.1	1623.1	1649.5
60°	1363.1	1430.5	1504.5	1574.3	1638.9	1698.2	1760.3	1815.6	1864.0	1905.2	1939.1
57.5°	1551.8	1638.9	1724.7	1813.5	1895.7	1971.0	2045.2	2115.3	2176.6	2228.9	2272.0
55°	1760.3	1870.2	1973.7	2081.2	2184.6	2279.4	2366.7	2449.9	2522.7	2584.9	2636.2
52.5°	1989.2	2124.6	2253.8	2376.9	2498.7	2610.5	2712.0	2807.3	2891.7	2963.8	3023.3
50°	2247.6	2399.0	2550.2	2692.0	2829.7	2958.4	3075.4	3182.7	3279.4	3362.2	3430.5
47.5°	2516.2	2688.1	2858.2	3020.4	3173.5	3320.0	3453.4	3574.3	3686.7	3783.0	3862.6
45°	2791.9	2987.2	3174.5	3357.9	3529.1	3696.4	3850.6	3989.1	4113.9	4221.5	4310.5
42.5°	3074.5	3290.9	3499.4	3705.9	3902.6	4086.9	4257.9	4411.9	4550.8	4672.3	4773.1
40°	3361.6	3598.1	3836.1	4062.6	4279.5	4481.1	4673.1	4846.2	5001.1	5138.1	5252.0
37.5°	3649.9	3915.3	4173.2	4420.3	4659.9	4884.9	5096.9	5291.2	5463.7	5615.6	5742.1
35°	3941.8	4229.2	4507.4	4781.5	5043.4	5294.1	5526.7	5740.9	5931.4	6097.5	6236.4
32.5°	4229.2	4537.4	4843.1	5141.8	5428.7	5702.4	5956.3	6189.3	6397.5	6580.3	6734.9
30°	4507.4	4843.1	5174.9	5497.7	5809.9	6104.8	6380.0	6634.7	6865.1	7065.5	7232.6
27.5°	4781.5	5141.8	5497.7	5846.1	6180.3	6497.3	6799.1	7075.9	7322.9	7539.6	7719.8
25°	5043.4	5428.7	5809.9	6180.3	6537.6	6882.8	7204.7	7500.9	7765.6	7998.7	8194.5
22.5°	5294.1	5702.4	6104.8	6497.3	6882.8	7248.3	7591.1	7905.8	8190.9	8442.1	8653.1
20°	5526.7	5956.3	6380.0	6799.1	7204.7	7591.1	7953.4	8289.2	8595.4	8859.9	9085.1
17.5°	5740.9	6189.3	6634.7	7075.9	7500.9	7905.8	8289.2	8645.9	8967.1	9242.4	9478.1
15°	5931.4	6397.5	6865.1	7322.9	7765.6	8190.9	8595.4	8967.1	9296.4	9583.6	9821.2
12.5°	6097.5	6580.3	7065.5	7539.6	7998.7	8442.1	8859.9	9242.4	9583.6	9878.9	10115.7
10°	6236.4	6734.9	7232.6	7719.8	8194.5	8653.1	9085.1	9478.1	9821.2	10115.7	10360.4
7.5°	6346.3	6857.5	7365.5	7863.7	8351.0	8819.8	9257.8	9654.8	10005.5	10307.0	10557.3
5°	6425.8	6946.5	7462.2	7968.8	8465.7	8942.8	9386.1	9786.5	10139.1	10440.2	10682.9
2.5°	6474.0	7000.4	7520.9	8032.7	8535.8	9018.2	9465.2	9868.4	10223.2	10525.6	10765.9
0°	6490.1	7018.5	7540.6	8054.2	8559.4	9043.6	9492.0	9896.2	10252.0	10555.1	10795.1
-2.5°	6474.0	7000.4	7520.9	8032.7	8535.8	9018.2	9465.2	9868.4	10223.2	10525.6	10765.9
-5°	6425.8	6946.5	7462.2	7968.8	8465.7	8942.8	9386.1	9786.5	10139.1	10440.2	10682.9
-7.5°	6346.3	6857.5	7365.5	7863.7	8351.0	8819.8	9257.8	9654.8	10005.5	10307.0	10557.3
-10°	6236.4	6734.9	7232.6	7719.8	8194.5	8653.1	9085.1	9478.1	9821.2	10115.7	10360.4
-12.5°	6097.5	6580.3	7065.5	7539.6	7998.7	8442.1	8859.9	9242.4	9583.6	9878.9	10115.7
-15°	5931.4	6397.5	6865.1	7322.9	7765.6	8190.9	8595.4	8967.1	9296.4	9583.6	9821.2
-17.5°	5740.9	6189.3	6634.7	7075.9	7500.9	7905.8	8289.2	8645.9	8967.1	9242.4	9478.1
-20°	5526.7	5956.3	6380.0	6799.1	7204.7	7591.1	7953.4	8289.2	8595.4	8859.9	9085.1



REPORT NUMBER: P624747 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-VN-04-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°	5294.1	5702.4	6104.8	6497.3	6882.8	7248.3	7591.1	7905.8	8190.9	8442.1	8653.1
-25°	5043.4	5428.7	5809.9	6180.3	6537.6	6882.8	7204.7	7500.9	7765.6	7998.7	8194.5
-27.5°	4781.5	5141.8	5497.7	5846.1	6180.3	6497.3	6799.1	7075.9	7322.9	7539.6	7719.8
-30°	4507.4	4843.1	5174.9	5497.7	5809.9	6104.8	6380.0	6634.7	6865.1	7065.5	7232.6
-32.5°	4229.2	4537.4	4843.1	5141.8	5428.7	5702.4	5956.3	6189.3	6397.5	6580.3	6734.9
-35°	3941.8	4229.2	4507.4	4781.5	5043.4	5294.1	5526.7	5740.9	5931.4	6097.5	6236.4
-37.5°	3649.9	3915.3	4173.2	4420.3	4659.9	4884.9	5096.9	5291.2	5463.7	5615.6	5742.1
-40°	3361.6	3598.1	3836.1	4062.6	4279.5	4481.1	4673.1	4846.2	5001.1	5138.1	5252.0
-42.5°	3074.5	3290.9	3499.4	3705.9	3902.6	4086.9	4257.9	4411.9	4550.8	4672.3	4773.1
-45°	2791.9	2987.2	3174.5	3357.9	3529.1	3696.4	3850.6	3989.1	4113.9	4221.5	4310.5
-47.5°	2516.2	2688.1	2858.2	3020.4	3173.5	3320.0	3453.4	3574.3	3686.7	3783.0	3862.6
-50°	2247.6	2399.0	2550.2	2692.0	2829.7	2958.4	3075.4	3182.7	3279.4	3362.2	3430.5
-52.5°	1989.2	2124.6	2253.8	2376.9	2498.7	2610.5	2712.0	2807.3	2891.7	2963.8	3023.3
-55°	1760.3	1870.2	1973.7	2081.2	2184.6	2279.4	2366.7	2449.9	2522.7	2584.9	2636.2
-57.5°	1551.8	1638.9	1724.7	1813.5	1895.7	1971.0	2045.2	2115.3	2176.6	2228.9	2272.0
-60°	1363.1	1430.5	1504.5	1574.3	1638.9	1698.2	1760.3	1815.6	1864.0	1905.2	1939.1
-62.5°	1193.8	1251.8	1309.4	1363.1	1412.6	1462.0	1510.4	1553.5	1591.1	1623.1	1649.5
-65°	1044.5	1092.0	1136.6	1178.0	1216.6	1257.3	1294.2	1326.9	1355.5	1379.9	1399.9
-67.5°	904.2	943.4	980.1	1014.2	1047.4	1078.6	1106.8	1131.8	1153.6	1172.1	1187.4
-70°	770.8	802.9	833.0	861.7	889.5	914.8	937.7	958.0	975.7	990.7	1003.1
-72.5°	644.2	669.9	694.6	718.9	741.2	761.7	780.1	796.4	810.7	822.8	832.7
-75°	525.1	545.4	566.0	585.1	602.7	618.7	633.2	646.0	657.2	666.7	674.5
-77.5°	417.6	433.8	448.9	463.0	475.9	487.7	498.3	507.8	516.0	522.9	528.7
-80°	321.9	333.2	343.7	353.5	362.5	370.7	378.1	384.7	390.4	395.2	399.2
-82.5°	230.8	238.8	246.3	253.2	259.6	265.4	270.6	275.2	279.2	282.7	285.5
-85°	146.7	151.3	155.6	159.6	163.2	166.6	169.6	172.2	174.5	176.5	178.1
-87.5°	70.7	72.8	74.7	76.5	78.2	79.7	81.1	82.3	83.4	84.3	85.0
-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: P624747 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-VN-04-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°	85.6	86.0	86.2	86.3	86.2	86.0	85.6	85.0	84.3	83.4	82.3
85°	179.4	180.3	180.8	181.0	180.8	180.3	179.4	178.1	176.5	174.5	172.2
82.5°	287.7	289.2	290.2	290.5	290.2	289.2	287.7	285.5	282.7	279.2	275.2
80°	402.3	404.5	405.9	406.3	405.9	404.5	402.3	399.2	395.2	390.4	384.7
77.5°	533.1	536.3	538.3	538.9	538.3	536.3	533.1	528.7	522.9	516.0	507.8
75°	680.5	684.9	687.5	688.4	687.5	684.9	680.5	674.5	666.7	657.2	646.0
72.5°	840.5	846.0	849.4	850.5	849.4	846.0	840.5	832.7	822.8	810.7	796.4
70°	1012.7	1019.7	1023.8	1025.2	1023.8	1019.7	1012.7	1003.1	990.7	975.7	958.0
67.5°	1199.3	1207.9	1213.0	1214.7	1213.0	1207.9	1199.3	1187.4	1172.1	1153.6	1131.8
65°	1415.5	1426.7	1433.5	1435.7	1433.5	1426.7	1415.5	1399.9	1379.9	1355.5	1326.9
62.5°	1670.1	1684.9	1693.7	1696.7	1693.7	1684.9	1670.1	1649.5	1623.1	1591.1	1553.5
60°	1965.6	1984.6	1996.1	1999.9	1996.1	1984.6	1965.6	1939.1	1905.2	1864.0	1815.6
57.5°	2305.7	2329.9	2344.4	2349.3	2344.4	2329.9	2305.7	2272.0	2228.9	2176.6	2115.3
55°	2676.3	2705.1	2722.4	2728.2	2722.4	2705.1	2676.3	2636.2	2584.9	2522.7	2449.9
52.5°	3070.0	3103.4	3123.6	3130.3	3123.6	3103.4	3070.0	3023.3	2963.8	2891.7	2807.3
50°	3484.1	3522.6	3545.8	3553.5	3545.8	3522.6	3484.1	3430.5	3362.2	3279.4	3182.7
47.5°	3925.1	3970.0	3997.1	4006.1	3997.1	3970.0	3925.1	3862.6	3783.0	3686.7	3574.3
45°	4380.5	4430.8	4461.2	4471.3	4461.2	4430.8	4380.5	4310.5	4221.5	4113.9	3989.1
42.5°	4852.4	4909.5	4944.0	4955.5	4944.0	4909.5	4852.4	4773.1	4672.3	4550.8	4411.9
40°	5341.7	5406.5	5445.5	5458.6	5445.5	5406.5	5341.7	5252.0	5138.1	5001.1	4846.2
37.5°	5841.9	5914.0	5957.6	5972.2	5957.6	5914.0	5841.9	5742.1	5615.6	5463.7	5291.2
35°	6346.3	6425.8	6474.0	6490.1	6474.0	6425.8	6346.3	6236.4	6097.5	5931.4	5740.9
32.5°	6857.5	6946.5	7000.4	7018.5	7000.4	6946.5	6857.5	6734.9	6580.3	6397.5	6189.3
30°	7365.5	7462.2	7520.9	7540.6	7520.9	7462.2	7365.5	7232.6	7065.5	6865.1	6634.7
27.5°	7863.7	7968.8	8032.7	8054.2	8032.7	7968.8	7863.7	7719.8	7539.6	7322.9	7075.9
25°	8351.0	8465.7	8535.8	8559.4	8535.8	8465.7	8351.0	8194.5	7998.7	7765.6	7500.9
22.5°	8819.8	8942.8	9018.2	9043.6	9018.2	8942.8	8819.8	8653.1	8442.1	8190.9	7905.8
20°	9257.8	9386.1	9465.2	9492.0	9465.2	9386.1	9257.8	9085.1	8859.9	8595.4	8289.2
17.5°	9654.8	9786.5	9868.4	9896.2	9868.4	9786.5	9654.8	9478.1	9242.4	8967.1	8645.9
15°	10005.5	10139.1	10223.2	10252.0	10223.2	10139.1	10005.5	9821.2	9583.6	9296.4	8967.1
12.5°	10307.0	10440.2	10525.6	10555.1	10525.6	10440.2	10307.0	10115.7	9878.9	9583.6	9242.4
10°	10557.3	10682.9	10765.9	10795.1	10765.9	10682.9	10557.3	10360.4	10115.7	9821.2	9478.1
7.5°	10738.3	10863.7	10939.8	10967.7	10939.8	10863.7	10738.3	10557.3	10307.0	10005.5	9654.8
5°	10863.7	10990.3	11067.5	11098.2	11067.5	10990.3	10863.7	10682.9	10440.2	10139.1	9786.5
2.5°	10939.8	11067.5	11151.3	11188.8	11151.3	11067.5	10939.8	10765.9	10525.6	10223.2	9868.4
0°	10967.7	11098.2	11188.8	11214.0	11188.8	11098.2	10967.7	10795.1	10555.1	10252.0	9896.2
-2.5°	10939.8	11067.5	11151.3	11188.8	11151.3	11067.5	10939.8	10765.9	10525.6	10223.2	9868.4
-5°	10863.7	10990.3	11067.5	11098.2	11067.5	10990.3	10863.7	10682.9	10440.2	10139.1	9786.5
-7.5°	10738.3	10863.7	10939.8	10967.7	10939.8	10863.7	10738.3	10557.3	10307.0	10005.5	9654.8
-10°	10557.3	10682.9	10765.9	10795.1	10765.9	10682.9	10557.3	10360.4	10115.7	9821.2	9478.1
-12.5°	10307.0	10440.2	10525.6	10555.1	10525.6	10440.2	10307.0	10115.7	9878.9	9583.6	9242.4
-15°	10005.5	10139.1	10223.2	10252.0	10223.2	10139.1	10005.5	9821.2	9583.6	9296.4	8967.1
-17.5°	9654.8	9786.5	9868.4	9896.2	9868.4	9786.5	9654.8	9478.1	9242.4	8967.1	8645.9
-20°	9257.8	9386.1	9465.2	9492.0	9465.2	9386.1	9257.8	9085.1	8859.9	8595.4	8289.2



REPORT NUMBER: P624747 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-VN-04-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°	8819.8	8942.8	9018.2	9043.6	9018.2	8942.8	8819.8	8653.1	8442.1	8190.9	7905.8
-25°	8351.0	8465.7	8535.8	8559.4	8535.8	8465.7	8351.0	8194.5	7998.7	7765.6	7500.9
-27.5°	7863.7	7968.8	8032.7	8054.2	8032.7	7968.8	7863.7	7719.8	7539.6	7322.9	7075.9
-30°	7365.5	7462.2	7520.9	7540.6	7520.9	7462.2	7365.5	7232.6	7065.5	6865.1	6634.7
-32.5°	6857.5	6946.5	7000.4	7018.5	7000.4	6946.5	6857.5	6734.9	6580.3	6397.5	6189.3
-35°	6346.3	6425.8	6474.0	6490.1	6474.0	6425.8	6346.3	6236.4	6097.5	5931.4	5740.9
-37.5°	5841.9	5914.0	5957.6	5972.2	5957.6	5914.0	5841.9	5742.1	5615.6	5463.7	5291.2
-40°	5341.7	5406.5	5445.5	5458.6	5445.5	5406.5	5341.7	5252.0	5138.1	5001.1	4846.2
-42.5°	4852.4	4909.5	4944.0	4955.5	4944.0	4909.5	4852.4	4773.1	4672.3	4550.8	4411.9
-45°	4380.5	4430.8	4461.2	4471.3	4461.2	4430.8	4380.5	4310.5	4221.5	4113.9	3989.1
-47.5°	3925.1	3970.0	3997.1	4006.1	3997.1	3970.0	3925.1	3862.6	3783.0	3686.7	3574.3
-50°	3484.1	3522.6	3545.8	3553.5	3545.8	3522.6	3484.1	3430.5	3362.2	3279.4	3182.7
-52.5°	3070.0	3103.4	3123.6	3130.3	3123.6	3103.4	3070.0	3023.3	2963.8	2891.7	2807.3
-55°	2676.3	2705.1	2722.4	2728.2	2722.4	2705.1	2676.3	2636.2	2584.9	2522.7	2449.9
-57.5°	2305.7	2329.9	2344.4	2349.3	2344.4	2329.9	2305.7	2272.0	2228.9	2176.6	2115.3
-60°	1965.6	1984.6	1996.1	1999.9	1996.1	1984.6	1965.6	1939.1	1905.2	1864.0	1815.6
-62.5°	1670.1	1684.9	1693.7	1696.7	1693.7	1684.9	1670.1	1649.5	1623.1	1591.1	1553.5
-65°	1415.5	1426.7	1433.5	1435.7	1433.5	1426.7	1415.5	1399.9	1379.9	1355.5	1326.9
-67.5°	1199.3	1207.9	1213.0	1214.7	1213.0	1207.9	1199.3	1187.4	1172.1	1153.6	1131.8
-70°	1012.7	1019.7	1023.8	1025.2	1023.8	1019.7	1012.7	1003.1	990.7	975.7	958.0
-72.5°	840.5	846.0	849.4	850.5	849.4	846.0	840.5	832.7	822.8	810.7	796.4
-75°	680.5	684.9	687.5	688.4	687.5	684.9	680.5	674.5	666.7	657.2	646.0
-77.5°	533.1	536.3	538.3	538.9	538.3	536.3	533.1	528.7	522.9	516.0	507.8
-80°	402.3	404.5	405.9	406.3	405.9	404.5	402.3	399.2	395.2	390.4	384.7
-82.5°	287.7	289.2	290.2	290.5	290.2	289.2	287.7	285.5	282.7	279.2	275.2
-85°	179.4	180.3	180.8	181.0	180.8	180.3	179.4	178.1	176.5	174.5	172.2
-87.5°	85.6	86.0	86.2	86.3	86.2	86.0	85.6	85.0	84.3	83.4	82.3
-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: P624747 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-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°	81.1	79.7	78.2	76.5	74.7	72.8	70.7	68.5	66.1	63.6	61.0
85°	169.6	166.6	163.2	159.6	155.6	151.3	146.7	141.8	136.6	131.2	125.4
82.5°	270.6	265.4	259.6	253.2	246.3	238.8	230.8	222.3	213.3	203.9	194.0
80°	378.1	370.7	362.5	353.5	343.7	333.2	321.9	309.9	297.2	284.2	270.9
77.5°	498.3	487.7	475.9	463.0	448.9	433.8	417.6	401.1	385.2	368.4	350.9
75°	633.2	618.7	602.7	585.1	566.0	545.4	525.1	504.4	482.4	459.4	435.2
72.5°	780.1	761.7	741.2	718.9	694.6	669.9	644.2	616.8	587.8	557.4	527.1
70°	937.7	914.8	889.5	861.7	833.0	802.9	770.8	736.7	700.6	664.8	628.3
67.5°	1106.8	1078.6	1047.4	1014.2	980.1	943.4	904.2	862.7	821.1	778.4	733.8
65°	1294.2	1257.3	1216.6	1178.0	1136.6	1092.0	1044.5	996.5	947.6	896.3	843.2
62.5°	1510.4	1462.0	1412.6	1363.1	1309.4	1251.8	1193.8	1138.1	1079.4	1018.5	959.3
60°	1760.3	1698.2	1638.9	1574.3	1504.5	1430.5	1363.1	1291.7	1216.6	1148.9	1078.6
57.5°	2045.2	1971.0	1895.7	1813.5	1724.7	1638.9	1551.8	1459.8	1374.3	1288.7	1201.8
55°	2366.7	2279.4	2184.6	2081.2	1973.7	1870.2	1760.3	1651.6	1546.8	1437.5	1340.9
52.5°	2712.0	2610.5	2498.7	2376.9	2253.8	2124.6	1989.2	1864.0	1732.7	1609.9	1487.6
50°	3075.4	2958.4	2829.7	2692.0	2550.2	2399.0	2247.6	2092.3	1939.1	1792.3	1648.1
47.5°	3453.4	3320.0	3173.5	3020.4	2858.2	2688.1	2516.2	2336.8	2163.0	1984.6	1822.4
45°	3850.6	3696.4	3529.1	3357.9	3174.5	2987.2	2791.9	2595.4	2394.4	2198.6	1999.9
42.5°	4257.9	4086.9	3902.6	3705.9	3499.4	3290.9	3074.5	2856.5	2635.4	2414.1	2198.6
40°	4673.1	4481.1	4279.5	4062.6	3836.1	3598.1	3361.6	3118.5	2878.1	2635.4	2394.4
37.5°	5096.9	4884.9	4659.9	4420.3	4173.2	3915.3	3649.9	3385.3	3118.5	2856.5	2595.4
35°	5526.7	5294.1	5043.4	4781.5	4507.4	4229.2	3941.8	3649.9	3361.6	3074.5	2791.9
32.5°	5956.3	5702.4	5428.7	5141.8	4843.1	4537.4	4229.2	3915.3	3598.1	3290.9	2987.2
30°	6380.0	6104.8	5809.9	5497.7	5174.9	4843.1	4507.4	4173.2	3836.1	3499.4	3174.5
27.5°	6799.1	6497.3	6180.3	5846.1	5497.7	5141.8	4781.5	4420.3	4062.6	3705.9	3357.9
25°	7204.7	6882.8	6537.6	6180.3	5809.9	5428.7	5043.4	4659.9	4279.5	3902.6	3529.1
22.5°	7591.1	7248.3	6882.8	6497.3	6104.8	5702.4	5294.1	4884.9	4481.1	4086.9	3696.4
20°	7953.4	7591.1	7204.7	6799.1	6380.0	5956.3	5526.7	5096.9	4673.1	4257.9	3850.6
17.5°	8289.2	7905.8	7500.9	7075.9	6634.7	6189.3	5740.9	5291.2	4846.2	4411.9	3989.1
15°	8595.4	8190.9	7765.6	7322.9	6865.1	6397.5	5931.4	5463.7	5001.1	4550.8	4113.9
12.5°	8859.9	8442.1	7998.7	7539.6	7065.5	6580.3	6097.5	5615.6	5138.1	4672.3	4221.5
10°	9085.1	8653.1	8194.5	7719.8	7232.6	6734.9	6236.4	5742.1	5252.0	4773.1	4310.5
7.5°	9257.8	8819.8	8351.0	7863.7	7365.5	6857.5	6346.3	5841.9	5341.7	4852.4	4380.5
5°	9386.1	8942.8	8465.7	7968.8	7462.2	6946.5	6425.8	5914.0	5406.5	4909.5	4430.8
2.5°	9465.2	9018.2	8535.8	8032.7	7520.9	7000.4	6474.0	5957.6	5445.5	4944.0	4461.2
0°	9492.0	9043.6	8559.4	8054.2	7540.6	7018.5	6490.1	5972.2	5458.6	4955.5	4471.3
-2.5°	9465.2	9018.2	8535.8	8032.7	7520.9	7000.4	6474.0	5957.6	5445.5	4944.0	4461.2
-5°	9386.1	8942.8	8465.7	7968.8	7462.2	6946.5	6425.8	5914.0	5406.5	4909.5	4430.8
-7.5°	9257.8	8819.8	8351.0	7863.7	7365.5	6857.5	6346.3	5841.9	5341.7	4852.4	4380.5
-10°	9085.1	8653.1	8194.5	7719.8	7232.6	6734.9	6236.4	5742.1	5252.0	4773.1	4310.5
-12.5°	8859.9	8442.1	7998.7	7539.6	7065.5	6580.3	6097.5	5615.6	5138.1	4672.3	4221.5
-15°	8595.4	8190.9	7765.6	7322.9	6865.1	6397.5	5931.4	5463.7	5001.1	4550.8	4113.9
-17.5°	8289.2	7905.8	7500.9	7075.9	6634.7	6189.3	5740.9	5291.2	4846.2	4411.9	3989.1
-20°	7953.4	7591.1	7204.7	6799.1	6380.0	5956.3	5526.7	5096.9	4673.1	4257.9	3850.6



REPORT NUMBER: P624747 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-VN-04-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°	7591.1	7248.3	6882.8	6497.3	6104.8	5702.4	5294.1	4884.9	4481.1	4086.9	3696.4
-25°	7204.7	6882.8	6537.6	6180.3	5809.9	5428.7	5043.4	4659.9	4279.5	3902.6	3529.1
-27.5°	6799.1	6497.3	6180.3	5846.1	5497.7	5141.8	4781.5	4420.3	4062.6	3705.9	3357.9
-30°	6380.0	6104.8	5809.9	5497.7	5174.9	4843.1	4507.4	4173.2	3836.1	3499.4	3174.5
-32.5°	5956.3	5702.4	5428.7	5141.8	4843.1	4537.4	4229.2	3915.3	3598.1	3290.9	2987.2
-35°	5526.7	5294.1	5043.4	4781.5	4507.4	4229.2	3941.8	3649.9	3361.6	3074.5	2791.9
-37.5°	5096.9	4884.9	4659.9	4420.3	4173.2	3915.3	3649.9	3385.3	3118.5	2856.5	2595.4
-40°	4673.1	4481.1	4279.5	4062.6	3836.1	3598.1	3361.6	3118.5	2878.1	2635.4	2394.4
-42.5°	4257.9	4086.9	3902.6	3705.9	3499.4	3290.9	3074.5	2856.5	2635.4	2414.1	2198.6
-45°	3850.6	3696.4	3529.1	3357.9	3174.5	2987.2	2791.9	2595.4	2394.4	2198.6	1999.9
-47.5°	3453.4	3320.0	3173.5	3020.4	2858.2	2688.1	2516.2	2336.8	2163.0	1984.6	1822.4
-50°	3075.4	2958.4	2829.7	2692.0	2550.2	2399.0	2247.6	2092.3	1939.1	1792.3	1648.1
-52.5°	2712.0	2610.5	2498.7	2376.9	2253.8	2124.6	1989.2	1864.0	1732.7	1609.9	1487.6
-55°	2366.7	2279.4	2184.6	2081.2	1973.7	1870.2	1760.3	1651.6	1546.8	1437.5	1340.9
-57.5°	2045.2	1971.0	1895.7	1813.5	1724.7	1638.9	1551.8	1459.8	1374.3	1288.7	1201.8
-60°	1760.3	1698.2	1638.9	1574.3	1504.5	1430.5	1363.1	1291.7	1216.6	1148.9	1078.6
-62.5°	1510.4	1462.0	1412.6	1363.1	1309.4	1251.8	1193.8	1138.1	1079.4	1018.5	959.3
-65°	1294.2	1257.3	1216.6	1178.0	1136.6	1092.0	1044.5	996.5	947.6	896.3	843.2
-67.5°	1106.8	1078.6	1047.4	1014.2	980.1	943.4	904.2	862.7	821.1	778.4	733.8
-70°	937.7	914.8	889.5	861.7	833.0	802.9	770.8	736.7	700.6	664.8	628.3
-72.5°	780.1	761.7	741.2	718.9	694.6	669.9	644.2	616.8	587.8	557.4	527.1
-75°	633.2	618.7	602.7	585.1	566.0	545.4	525.1	504.4	482.4	459.4	435.2
-77.5°	498.3	487.7	475.9	463.0	448.9	433.8	417.6	401.1	385.2	368.4	350.9
-80°	378.1	370.7	362.5	353.5	343.7	333.2	321.9	309.9	297.2	284.2	270.9
-82.5°	270.6	265.4	259.6	253.2	246.3	238.8	230.8	222.3	213.3	203.9	194.0
-85°	169.6	166.6	163.2	159.6	155.6	151.3	146.7	141.8	136.6	131.2	125.4
-87.5°	81.1	79.7	78.2	76.5	74.7	72.8	70.7	68.5	66.1	63.6	61.0
-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: P624747 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-VN-04-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°	58.3	55.5	52.5	49.5	46.4	43.1	39.8	36.5	33.0	29.5	25.9
85°	119.5	113.3	106.8	100.1	93.3	86.2	79.6	72.9	66.0	59.0	51.8
82.5°	183.6	173.9	164.2	154.2	143.9	133.3	122.5	111.4	100.1	88.5	77.7
80°	257.1	242.7	227.8	212.4	196.5	180.3	165.8	151.0	135.9	120.6	105.0
77.5°	332.6	313.5	293.8	274.4	254.5	234.1	213.2	191.9	171.6	152.4	133.0
75°	410.0	386.7	363.0	338.5	313.4	287.7	262.6	237.0	211.0	184.4	160.7
72.5°	497.6	467.0	435.4	403.1	373.8	343.6	312.8	281.8	251.4	220.6	189.2
70°	590.3	550.9	513.3	476.0	437.6	399.2	364.0	328.1	291.5	256.2	220.6
67.5°	687.4	643.0	597.0	549.6	505.2	461.0	415.7	374.2	333.2	291.5	251.4
65°	791.5	737.9	682.9	630.3	576.3	522.9	472.8	421.6	374.2	328.1	281.8
62.5°	897.8	835.3	774.3	711.6	650.4	589.6	528.9	472.8	415.7	364.0	312.8
60°	1007.2	937.7	865.9	796.4	726.3	657.2	589.6	522.9	461.0	399.2	343.6
57.5°	1122.5	1040.7	961.8	881.9	803.8	726.3	650.4	576.3	505.2	437.6	373.8
55°	1241.1	1149.1	1058.3	969.8	881.9	796.4	711.6	630.3	549.6	476.0	403.1
52.5°	1372.5	1262.1	1158.0	1058.3	961.8	865.9	774.3	682.9	597.0	513.3	435.4
50°	1512.8	1383.1	1262.1	1149.1	1040.7	937.7	835.3	737.9	643.0	550.9	467.0
47.5°	1660.8	1512.8	1372.5	1241.1	1122.5	1007.2	897.8	791.5	687.4	590.3	497.6
45°	1822.4	1648.1	1487.6	1340.9	1201.8	1078.6	959.3	843.2	733.8	628.3	527.1
42.5°	1984.6	1792.3	1609.9	1437.5	1288.7	1148.9	1018.5	896.3	778.4	664.8	557.4
40°	2163.0	1939.1	1732.7	1546.8	1374.3	1216.6	1079.4	947.6	821.1	700.6	587.8
37.5°	2336.8	2092.3	1864.0	1651.6	1459.8	1291.7	1138.1	996.5	862.7	736.7	616.8
35°	2516.2	2247.6	1989.2	1760.3	1551.8	1363.1	1193.8	1044.5	904.2	770.8	644.2
32.5°	2688.1	2399.0	2124.6	1870.2	1638.9	1430.5	1251.8	1092.0	943.4	802.9	669.9
30°	2858.2	2550.2	2253.8	1973.7	1724.7	1504.5	1309.4	1136.6	980.1	833.0	694.6
27.5°	3020.4	2692.0	2376.9	2081.2	1813.5	1574.3	1363.1	1178.0	1014.2	861.7	718.9
25°	3173.5	2829.7	2498.7	2184.6	1895.7	1638.9	1412.6	1216.6	1047.4	889.5	741.2
22.5°	3320.0	2958.4	2610.5	2279.4	1971.0	1698.2	1462.0	1257.3	1078.6	914.8	761.7
20°	3453.4	3075.4	2712.0	2366.7	2045.2	1760.3	1510.4	1294.2	1106.8	937.7	780.1
17.5°	3574.3	3182.7	2807.3	2449.9	2115.3	1815.6	1553.5	1326.9	1131.8	958.0	796.4
15°	3686.7	3279.4	2891.7	2522.7	2176.6	1864.0	1591.1	1355.5	1153.6	975.7	810.7
12.5°	3783.0	3362.2	2963.8	2584.9	2228.9	1905.2	1623.1	1379.9	1172.1	990.7	822.8
10°	3862.6	3430.5	3023.3	2636.2	2272.0	1939.1	1649.5	1399.9	1187.4	1003.1	832.7
7.5°	3925.1	3484.1	3070.0	2676.3	2305.7	1965.6	1670.1	1415.5	1199.3	1012.7	840.5
5°	3970.0	3522.6	3103.4	2705.1	2329.9	1984.6	1684.9	1426.7	1207.9	1019.7	846.0
2.5°	3997.1	3545.8	3123.6	2722.4	2344.4	1996.1	1693.7	1433.5	1213.0	1023.8	849.4
0°	4006.1	3553.5	3130.3	2728.2	2349.3	1999.9	1696.7	1435.7	1214.7	1025.2	850.5
-2.5°	3997.1	3545.8	3123.6	2722.4	2344.4	1996.1	1693.7	1433.5	1213.0	1023.8	849.4
-5°	3970.0	3522.6	3103.4	2705.1	2329.9	1984.6	1684.9	1426.7	1207.9	1019.7	846.0
-7.5°	3925.1	3484.1	3070.0	2676.3	2305.7	1965.6	1670.1	1415.5	1199.3	1012.7	840.5
-10°	3862.6	3430.5	3023.3	2636.2	2272.0	1939.1	1649.5	1399.9	1187.4	1003.1	832.7
-12.5°	3783.0	3362.2	2963.8	2584.9	2228.9	1905.2	1623.1	1379.9	1172.1	990.7	822.8
-15°	3686.7	3279.4	2891.7	2522.7	2176.6	1864.0	1591.1	1355.5	1153.6	975.7	810.7
-17.5°	3574.3	3182.7	2807.3	2449.9	2115.3	1815.6	1553.5	1326.9	1131.8	958.0	796.4
-20°	3453.4	3075.4	2712.0	2366.7	2045.2	1760.3	1510.4	1294.2	1106.8	937.7	780.1



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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°	3320.0	2958.4	2610.5	2279.4	1971.0	1698.2	1462.0	1257.3	1078.6	914.8	761.7
-25°	3173.5	2829.7	2498.7	2184.6	1895.7	1638.9	1412.6	1216.6	1047.4	889.5	741.2
-27.5°	3020.4	2692.0	2376.9	2081.2	1813.5	1574.3	1363.1	1178.0	1014.2	861.7	718.9
-30°	2858.2	2550.2	2253.8	1973.7	1724.7	1504.5	1309.4	1136.6	980.1	833.0	694.6
-32.5°	2688.1	2399.0	2124.6	1870.2	1638.9	1430.5	1251.8	1092.0	943.4	802.9	669.9
-35°	2516.2	2247.6	1989.2	1760.3	1551.8	1363.1	1193.8	1044.5	904.2	770.8	644.2
-37.5°	2336.8	2092.3	1864.0	1651.6	1459.8	1291.7	1138.1	996.5	862.7	736.7	616.8
-40°	2163.0	1939.1	1732.7	1546.8	1374.3	1216.6	1079.4	947.6	821.1	700.6	587.8
-42.5°	1984.6	1792.3	1609.9	1437.5	1288.7	1148.9	1018.5	896.3	778.4	664.8	557.4
-45°	1822.4	1648.1	1487.6	1340.9	1201.8	1078.6	959.3	843.2	733.8	628.3	527.1
-47.5°	1660.8	1512.8	1372.5	1241.1	1122.5	1007.2	897.8	791.5	687.4	590.3	497.6
-50°	1512.8	1383.1	1262.1	1149.1	1040.7	937.7	835.3	737.9	643.0	550.9	467.0
-52.5°	1372.5	1262.1	1158.0	1058.3	961.8	865.9	774.3	682.9	597.0	513.3	435.4
-55°	1241.1	1149.1	1058.3	969.8	881.9	796.4	711.6	630.3	549.6	476.0	403.1
-57.5°	1122.5	1040.7	961.8	881.9	803.8	726.3	650.4	576.3	505.2	437.6	373.8
-60°	1007.2	937.7	865.9	796.4	726.3	657.2	589.6	522.9	461.0	399.2	343.6
-62.5°	897.8	835.3	774.3	711.6	650.4	589.6	528.9	472.8	415.7	364.0	312.8
-65°	791.5	737.9	682.9	630.3	576.3	522.9	472.8	421.6	374.2	328.1	281.8
-67.5°	687.4	643.0	597.0	549.6	505.2	461.0	415.7	374.2	333.2	291.5	251.4
-70°	590.3	550.9	513.3	476.0	437.6	399.2	364.0	328.1	291.5	256.2	220.6
-72.5°	497.6	467.0	435.4	403.1	373.8	343.6	312.8	281.8	251.4	220.6	189.2
-75°	410.0	386.7	363.0	338.5	313.4	287.7	262.6	237.0	211.0	184.4	160.7
-77.5°	332.6	313.5	293.8	274.4	254.5	234.1	213.2	191.9	171.6	152.4	133.0
-80°	257.1	242.7	227.8	212.4	196.5	180.3	165.8	151.0	135.9	120.6	105.0
-82.5°	183.6	173.9	164.2	154.2	143.9	133.3	122.5	111.4	100.1	88.5	77.7
-85°	119.5	113.3	106.8	100.1	93.3	86.2	79.6	72.9	66.0	59.0	51.8
-87.5°	58.3	55.5	52.5	49.5	46.4	43.1	39.8	36.5	33.0	29.5	25.9
-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°	22.3	18.7	15.0	11.3	7.5	3.8	0.0
85°	44.6	37.3	29.9	22.5	15.0	7.5	0.0
82.5°	66.8	55.9	44.8	33.7	22.5	11.3	0.0
80°	89.2	74.4	59.6	44.8	29.9	15.0	0.0
77.5°	113.2	93.3	74.4	55.9	37.3	18.7	0.0
75°	137.1	113.2	89.2	66.8	44.6	22.3	0.0
72.5°	160.7	133.0	105.0	77.7	51.8	25.9	0.0
70°	184.4	152.4	120.6	88.5	59.0	29.5	0.0
67.5°	211.0	171.6	135.9	100.1	66.0	33.0	0.0
65°	237.0	191.9	151.0	111.4	72.9	36.5	0.0
62.5°	262.6	213.2	165.8	122.5	79.6	39.8	0.0
60°	287.7	234.1	180.3	133.3	86.2	43.1	0.0
57.5°	313.4	254.5	196.5	143.9	93.3	46.4	0.0
55°	338.5	274.4	212.4	154.2	100.1	49.5	0.0
52.5°	363.0	293.8	227.8	164.2	106.8	52.5	0.0
50°	386.7	313.5	242.7	173.9	113.3	55.5	0.0
47.5°	410.0	332.6	257.1	183.6	119.5	58.3	0.0
45°	435.2	350.9	270.9	194.0	125.4	61.0	0.0
42.5°	459.4	368.4	284.2	203.9	131.2	63.6	0.0
40°	482.4	385.2	297.2	213.3	136.6	66.1	0.0
37.5°	504.4	401.1	309.9	222.3	141.8	68.5	0.0
35°	525.1	417.6	321.9	230.8	146.7	70.7	0.0
32.5°	545.4	433.8	333.2	238.8	151.3	72.8	0.0
30°	566.0	448.9	343.7	246.3	155.6	74.7	0.0
27.5°	585.1	463.0	353.5	253.2	159.6	76.5	0.0
25°	602.7	475.9	362.5	259.6	163.2	78.2	0.0
22.5°	618.7	487.7	370.7	265.4	166.6	79.7	0.0
20°	633.2	498.3	378.1	270.6	169.6	81.1	0.0
17.5°	646.0	507.8	384.7	275.2	172.2	82.3	0.0
15°	657.2	516.0	390.4	279.2	174.5	83.4	0.0
12.5°	666.7	522.9	395.2	282.7	176.5	84.3	0.0
10°	674.5	528.7	399.2	285.5	178.1	85.0	0.0
7.5°	680.5	533.1	402.3	287.7	179.4	85.6	0.0
5°	684.9	536.3	404.5	289.2	180.3	86.0	0.0
2.5°	687.5	538.3	405.9	290.2	180.8	86.2	0.0
0°	688.4	538.9	406.3	290.5	181.0	86.3	0.0
-2.5°	687.5	538.3	405.9	290.2	180.8	86.2	0.0
-5°	684.9	536.3	404.5	289.2	180.3	86.0	0.0
-7.5°	680.5	533.1	402.3	287.7	179.4	85.6	0.0
-10°	674.5	528.7	399.2	285.5	178.1	85.0	0.0
-12.5°	666.7	522.9	395.2	282.7	176.5	84.3	0.0
-15°	657.2	516.0	390.4	279.2	174.5	83.4	0.0
-17.5°	646.0	507.8	384.7	275.2	172.2	82.3	0.0
-20°	633.2	498.3	378.1	270.6	169.6	81.1	0.0

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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	618.7	487.7	370.7	265.4	166.6	79.7	0.0
-25°	602.7	475.9	362.5	259.6	163.2	78.2	0.0
-27.5°	585.1	463.0	353.5	253.2	159.6	76.5	0.0
-30°	566.0	448.9	343.7	246.3	155.6	74.7	0.0
-32.5°	545.4	433.8	333.2	238.8	151.3	72.8	0.0
-35°	525.1	417.6	321.9	230.8	146.7	70.7	0.0
-37.5°	504.4	401.1	309.9	222.3	141.8	68.5	0.0
-40°	482.4	385.2	297.2	213.3	136.6	66.1	0.0
-42.5°	459.4	368.4	284.2	203.9	131.2	63.6	0.0
-45°	435.2	350.9	270.9	194.0	125.4	61.0	0.0
-47.5°	410.0	332.6	257.1	183.6	119.5	58.3	0.0
-50°	386.7	313.5	242.7	173.9	113.3	55.5	0.0
-52.5°	363.0	293.8	227.8	164.2	106.8	52.5	0.0
-55°	338.5	274.4	212.4	154.2	100.1	49.5	0.0
-57.5°	313.4	254.5	196.5	143.9	93.3	46.4	0.0
-60°	287.7	234.1	180.3	133.3	86.2	43.1	0.0
-62.5°	262.6	213.2	165.8	122.5	79.6	39.8	0.0
-65°	237.0	191.9	151.0	111.4	72.9	36.5	0.0
-67.5°	211.0	171.6	135.9	100.1	66.0	33.0	0.0
-70°	184.4	152.4	120.6	88.5	59.0	29.5	0.0
-72.5°	160.7	133.0	105.0	77.7	51.8	25.9	0.0
-75°	137.1	113.2	89.2	66.8	44.6	22.3	0.0
-77.5°	113.2	93.3	74.4	55.9	37.3	18.7	0.0
-80°	89.2	74.4	59.6	44.8	29.9	15.0	0.0
-82.5°	66.8	55.9	44.8	33.7	22.5	11.3	0.0
-85°	44.6	37.3	29.9	22.5	15.0	7.5	0.0
-87.5°	22.3	18.7	15.0	11.3	7.5	3.8	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)