

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

Brand: EPHESUS

Report Number: P1212196 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS12-1000R-57-80-1S-HEG**

Issue Date: 11/14/2025

Test Information

Test Method: LM-79-08
Report Number: P1212196 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2509-549-12)
Test Lab: INNOVATION CENTER
Issue Date: 11/14/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: EPHESUS
Catalog Number: EPH-LS12-1000R-57-80-1S-HEG
Description: EPHESUS LS12 LUMINAIRE
(12) 5700K, 80 CRI LEDS AND 1S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

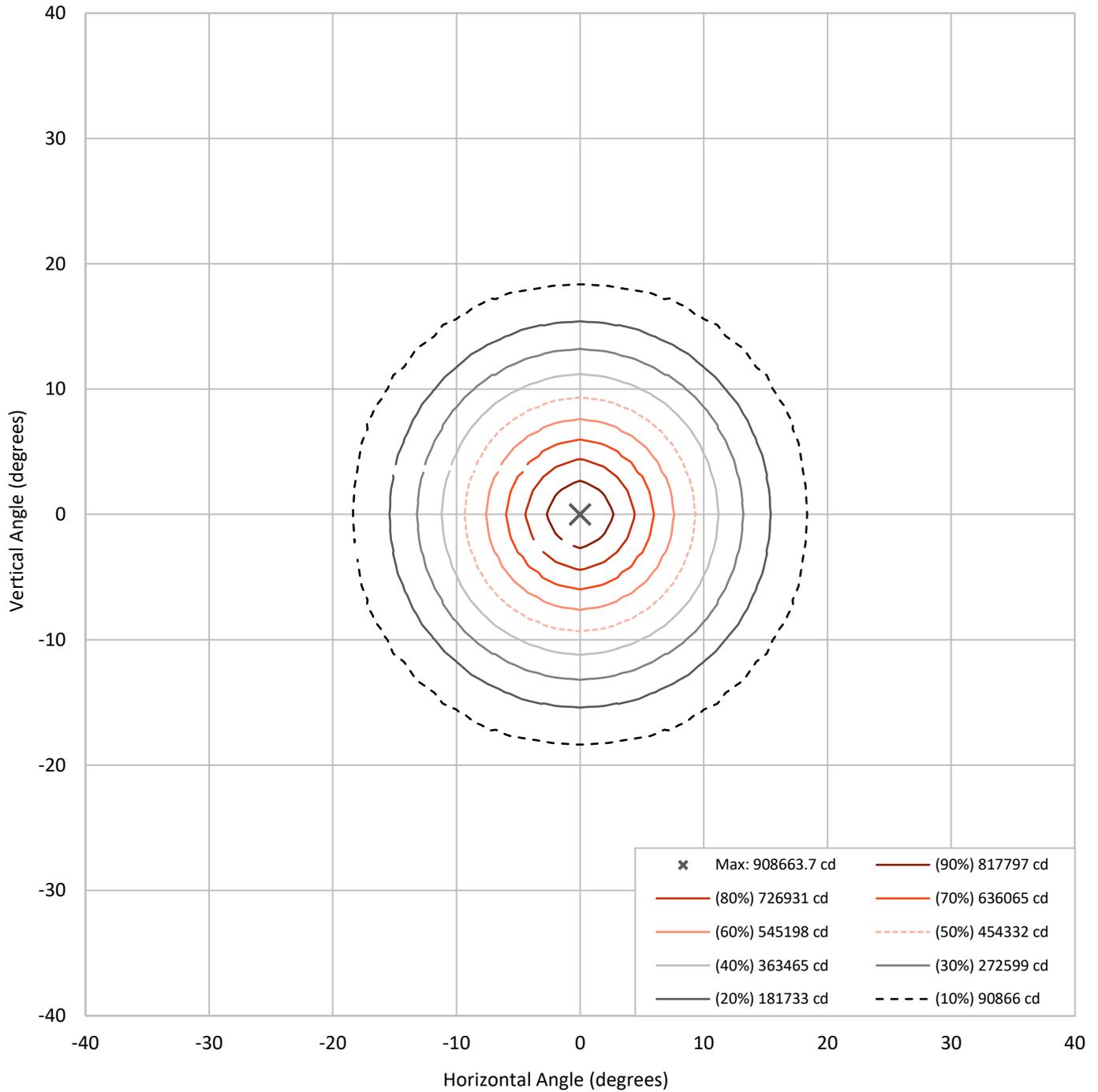
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	143496 lumens	Max Intensity:	908663.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	130.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.83' x L: 0.79' x H: 0')		
Beam Angle (50%):	18.7°H x 18.7°V	Field Angle (10%):	36.7°H x 36.7°V
Beam Lumens:	51283.5 lumens	Field Lumens:	106514.5 lumens
Beam Efficiency:	35.7%	Field Efficiency:	74.2%
Input Watts (W):	1101.3		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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Iso-Candela Plot



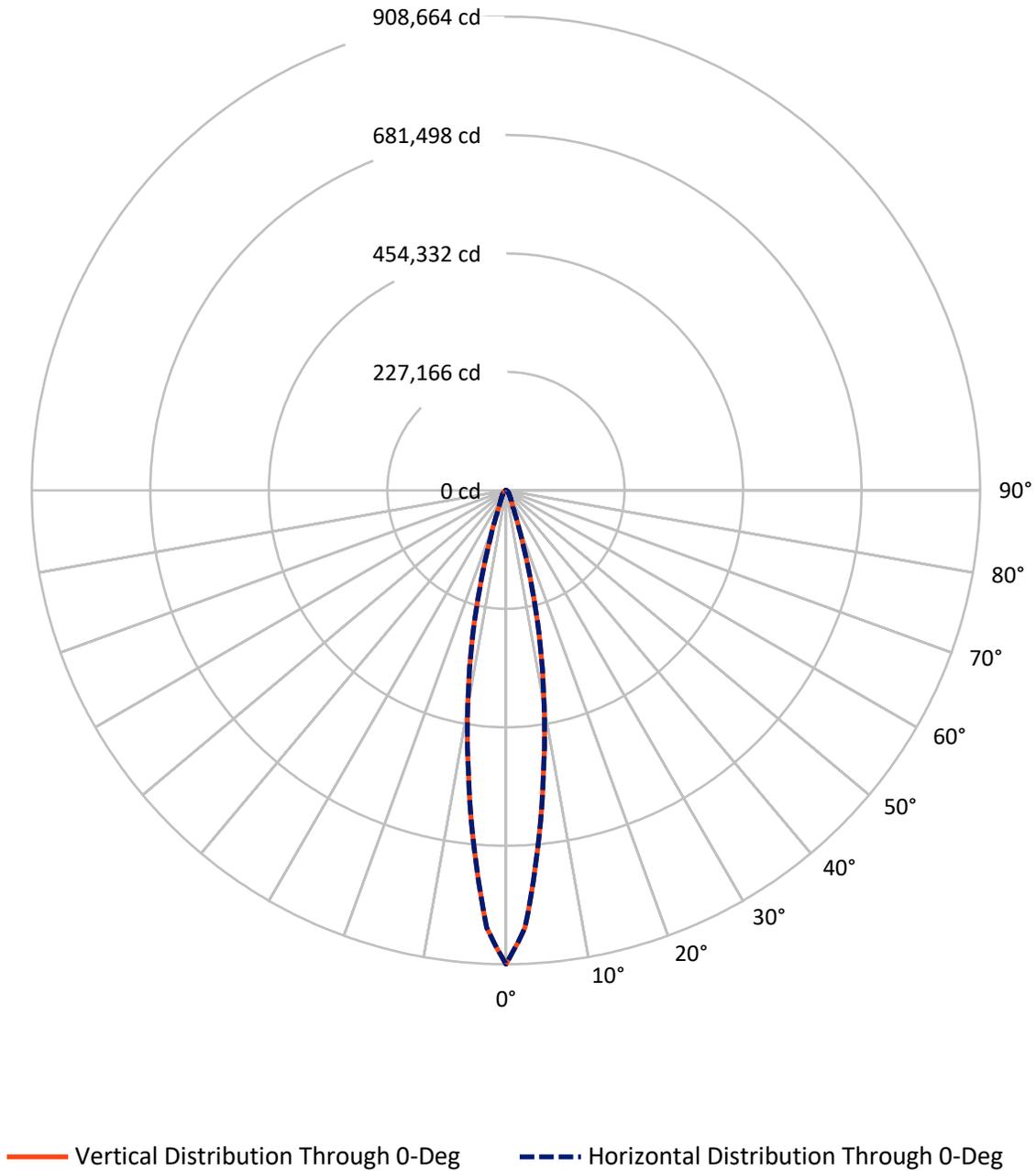
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Lumen Table

90	0.3	1.5		5.4		13.0		17.0		13.0		5.4		1.5		0.3
80	0.3	1.5		5.4		13.0		17.0		13.0		5.4		1.5		0.3
70	0.6	0.8	3.2	9.1	18.1	28.2	37.0	41.9	41.9	37.0	28.2	18.1	9.1	3.2	0.8	0.6
60		2.4	10.5	26.4	48.9	76.5	100.9	114.6	114.6	100.9	76.5	48.9	26.4	10.5	2.4	
50	1.8	5.6	21.6	52.1	99.1	154.1	203.6	230.4	230.4	203.6	154.1	99.1	52.1	21.6	5.6	1.8
40		9.6	34.6	85.8	163.7	243.5	319.4	378.4	378.4	319.4	243.5	163.7	85.8	34.6	9.6	
30	3.8	13.6	49.1	121.1	220.5	356.4	581.8	850.8	850.8	581.8	356.4	220.5	121.1	49.1	13.6	3.8
20		16.7	60.8	150.2	272.0	547.5	1773.6	5287.7	5287.7	1773.6	547.5	272.0	150.2	60.8	16.7	
10	4.7	18.4	67.0	164.7	312.9	779.1	5155.9	16517.0	16517.0	5155.9	779.1	312.9	164.7	67.0	18.4	4.7
0		18.4	67.0	164.7	312.9	779.1	5155.9	16517.0	16517.0	5155.9	779.1	312.9	164.7	67.0	18.4	
-10	3.8	16.7	60.8	150.2	272.0	547.5	1773.6	5287.7	5287.7	1773.6	547.5	272.0	150.2	60.8	16.7	3.8
-20		13.6	49.1	121.1	220.5	356.4	581.8	850.8	850.8	581.8	356.4	220.5	121.1	49.1	13.6	
-30	1.8	9.6	34.6	85.8	163.7	243.5	319.4	378.4	378.4	319.4	243.5	163.7	85.8	34.6	9.6	1.8
-40		5.6	21.6	52.1	99.1	154.1	203.6	230.4	230.4	203.6	154.1	99.1	52.1	21.6	5.6	
-50	0.6	2.4	10.5	26.4	48.9	76.5	100.9	114.6	114.6	100.9	76.5	48.9	26.4	10.5	2.4	0.6
-60		0.8	3.2	9.1	18.1	28.2	37.0	41.9	41.9	37.0	28.2	18.1	9.1	3.2	0.8	
-70	0.3	1.5		5.4		13.0		17.0		13.0		5.4		1.5		0.3
-80		1.5		5.4		13.0		17.0		13.0		5.4		1.5		
-90	0.3	1.5		5.4		13.0		17.0		13.0		5.4		1.5		0.3

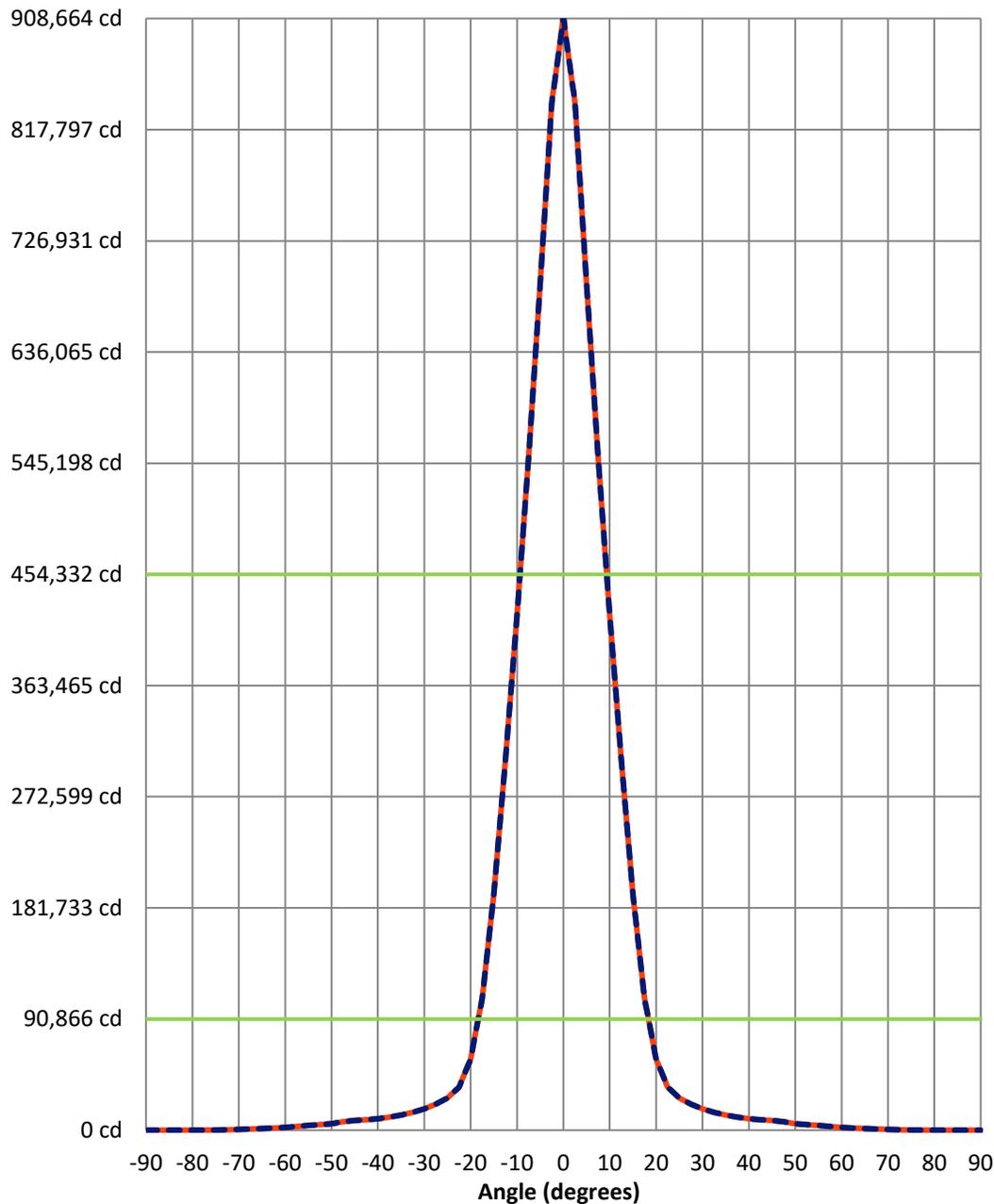
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 18.7°
 V Angle: 18.7°
 Lumens: 51283.5
 Efficiency: 35.7%

Field:
 H Angle: 36.7°
 V Angle: 36.7°
 Lumens: 106514.5
 Efficiency: 74.2%

Spill:
 Lumens: 36981.4
 Efficiency: 25.8%

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



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.8	1.6	2.4	3.2	3.9	4.7	5.5	6.2	7.0	7.7
85°	0.0	1.6	3.2	4.7	6.3	7.9	9.4	10.9	12.4	13.9	15.4
82.5°	0.0	2.4	4.7	7.1	9.5	11.8	14.1	16.4	18.2	18.5	18.7
80°	0.0	3.2	6.3	9.5	12.6	15.7	18.3	18.6	18.9	19.2	19.5
77.5°	0.0	3.9	7.9	11.8	15.7	18.3	18.7	19.1	19.5	19.9	20.9
75°	0.0	4.7	9.4	14.1	18.3	18.7	19.2	19.7	20.3	22.2	24.0
72.5°	0.0	5.5	10.9	16.4	18.6	19.1	19.7	20.7	22.9	25.1	27.2
70°	0.0	6.2	12.4	18.2	18.9	19.5	20.3	22.9	25.4	28.0	34.3
67.5°	0.0	7.0	13.9	18.5	19.2	19.9	22.2	25.1	28.0	35.2	42.3
65°	0.0	7.7	15.4	18.7	19.5	20.9	24.0	27.2	34.3	42.3	52.8
62.5°	0.0	8.4	16.8	18.9	19.8	22.4	25.8	31.7	40.6	50.9	69.0
60°	0.0	9.1	18.2	19.1	20.1	23.8	27.6	37.0	46.7	65.3	84.9
57.5°	0.0	9.8	18.3	19.4	21.2	25.3	31.8	42.3	57.8	79.3	120.4
55°	0.0	10.4	18.5	19.6	22.3	26.7	36.1	47.4	70.0	98.7	164.3
52.5°	0.0	11.1	18.6	19.8	23.4	28.4	40.4	57.1	81.9	137.3	207.1
50°	0.0	11.7	18.7	20.0	24.4	31.8	44.5	67.2	99.7	174.6	268.8
47.5°	0.0	12.3	18.9	20.3	25.5	35.1	49.1	76.9	131.8	210.8	330.9
45°	0.0	12.9	19.0	21.0	26.4	38.3	57.1	86.2	162.7	264.1	390.8
42.5°	0.0	13.4	19.1	21.7	27.4	41.3	64.8	105.0	192.4	315.8	463.4
40°	0.0	13.9	19.2	22.4	29.0	44.2	72.1	129.8	225.8	365.2	535.4
37.5°	0.0	14.4	19.3	23.0	31.2	47.0	79.0	153.3	267.4	416.3	604.1
35°	0.0	14.9	19.4	23.6	33.2	51.5	85.6	175.6	306.9	474.6	680.0
32.5°	0.0	15.3	19.5	24.2	35.2	56.6	95.3	196.6	344.1	529.5	767.9
30°	0.0	15.8	19.6	24.7	37.0	61.4	112.0	218.7	378.9	581.0	850.3
27.5°	0.0	16.1	19.7	25.2	38.7	65.9	127.6	246.8	414.9	628.9	927.0
25°	0.0	16.5	19.7	25.6	40.3	70.0	141.9	272.8	453.9	685.4	998.0
22.5°	0.0	16.8	19.8	26.0	41.7	73.7	154.9	296.4	489.4	743.1	1068.7
20°	0.0	17.1	19.9	26.4	43.0	77.1	166.7	317.7	521.5	795.1	1132.5
17.5°	0.0	17.4	19.9	26.7	44.1	80.1	177.1	336.6	550.0	841.4	1189.2
15°	0.0	17.6	20.0	27.0	45.1	82.7	186.2	353.1	574.8	881.7	1238.8
12.5°	0.0	17.8	20.0	27.2	46.0	84.9	193.9	367.1	595.9	916.1	1280.9
10°	0.0	17.9	20.0	27.4	46.7	86.8	200.3	378.6	613.3	944.3	1315.6
7.5°	0.0	18.0	20.1	27.6	47.2	88.2	205.2	387.6	626.8	966.4	1342.7
5°	0.0	18.1	20.1	27.7	47.6	89.2	208.8	394.0	636.5	982.1	1362.1
2.5°	0.0	18.2	20.1	27.8	47.8	89.8	210.9	397.9	642.4	991.6	1373.8
0°	0.0	18.2	20.1	27.8	47.9	90.0	211.6	399.2	644.3	994.8	1377.7
-2.5°	0.0	18.2	20.1	27.8	47.8	89.8	210.9	397.9	642.4	991.6	1373.8
-5°	0.0	18.1	20.1	27.7	47.6	89.2	208.8	394.0	636.5	982.1	1362.1
-7.5°	0.0	18.0	20.1	27.6	47.2	88.2	205.2	387.6	626.8	966.4	1342.7
-10°	0.0	17.9	20.0	27.4	46.7	86.8	200.3	378.6	613.3	944.3	1315.6
-12.5°	0.0	17.8	20.0	27.2	46.0	84.9	193.9	367.1	595.9	916.1	1280.9
-15°	0.0	17.6	20.0	27.0	45.1	82.7	186.2	353.1	574.8	881.7	1238.8
-17.5°	0.0	17.4	19.9	26.7	44.1	80.1	177.1	336.6	550.0	841.4	1189.2
-20°	0.0	17.1	19.9	26.4	43.0	77.1	166.7	317.7	521.5	795.1	1132.5



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 CATALOG NUMBER: EPH-LS12-1000R-57-80-1S-HEG

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	16.8	19.8	26.0	41.7	73.7	154.9	296.4	489.4	743.1	1068.7
-25°	0.0	16.5	19.7	25.6	40.3	70.0	141.9	272.8	453.9	685.4	998.0
-27.5°	0.0	16.1	19.7	25.2	38.7	65.9	127.6	246.8	414.9	628.9	927.0
-30°	0.0	15.8	19.6	24.7	37.0	61.4	112.0	218.7	378.9	581.0	850.3
-32.5°	0.0	15.3	19.5	24.2	35.2	56.6	95.3	196.6	344.1	529.5	767.9
-35°	0.0	14.9	19.4	23.6	33.2	51.5	85.6	175.6	306.9	474.6	680.0
-37.5°	0.0	14.4	19.3	23.0	31.2	47.0	79.0	153.3	267.4	416.3	604.1
-40°	0.0	13.9	19.2	22.4	29.0	44.2	72.1	129.8	225.8	365.2	535.4
-42.5°	0.0	13.4	19.1	21.7	27.4	41.3	64.8	105.0	192.4	315.8	463.4
-45°	0.0	12.9	19.0	21.0	26.4	38.3	57.1	86.2	162.7	264.1	390.8
-47.5°	0.0	12.3	18.9	20.3	25.5	35.1	49.1	76.9	131.8	210.8	330.9
-50°	0.0	11.7	18.7	20.0	24.4	31.8	44.5	67.2	99.7	174.6	268.8
-52.5°	0.0	11.1	18.6	19.8	23.4	28.4	40.4	57.1	81.9	137.3	207.1
-55°	0.0	10.4	18.5	19.6	22.3	26.7	36.1	47.4	70.0	98.7	164.3
-57.5°	0.0	9.8	18.3	19.4	21.2	25.3	31.8	42.3	57.8	79.3	120.4
-60°	0.0	9.1	18.2	19.1	20.1	23.8	27.6	37.0	46.7	65.3	84.9
-62.5°	0.0	8.4	16.8	18.9	19.8	22.4	25.8	31.7	40.6	50.9	69.0
-65°	0.0	7.7	15.4	18.7	19.5	20.9	24.0	27.2	34.3	42.3	52.8
-67.5°	0.0	7.0	13.9	18.5	19.2	19.9	22.2	25.1	28.0	35.2	42.3
-70°	0.0	6.2	12.4	18.2	18.9	19.5	20.3	22.9	25.4	28.0	34.3
-72.5°	0.0	5.5	10.9	16.4	18.6	19.1	19.7	20.7	22.9	25.1	27.2
-75°	0.0	4.7	9.4	14.1	18.3	18.7	19.2	19.7	20.3	22.2	24.0
-77.5°	0.0	3.9	7.9	11.8	15.7	18.3	18.7	19.1	19.5	19.9	20.9
-80°	0.0	3.2	6.3	9.5	12.6	15.7	18.3	18.6	18.9	19.2	19.5
-82.5°	0.0	2.4	4.7	7.1	9.5	11.8	14.1	16.4	18.2	18.5	18.7
-85°	0.0	1.6	3.2	4.7	6.3	7.9	9.4	10.9	12.4	13.9	15.4
-87.5°	0.0	0.8	1.6	2.4	3.2	3.9	4.7	5.5	6.2	7.0	7.7
-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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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°	8.4	9.1	9.8	10.4	11.1	11.7	12.3	12.9	13.4	13.9	14.4
85°	16.8	18.2	18.3	18.5	18.6	18.7	18.9	19.0	19.1	19.2	19.3
82.5°	18.9	19.1	19.4	19.6	19.8	20.0	20.3	21.0	21.7	22.4	23.0
80°	19.8	20.1	21.2	22.3	23.4	24.4	25.5	26.4	27.4	29.0	31.2
77.5°	22.4	23.8	25.3	26.7	28.4	31.8	35.1	38.3	41.3	44.2	47.0
75°	25.8	27.6	31.8	36.1	40.4	44.5	49.1	57.1	64.8	72.1	79.0
72.5°	31.7	37.0	42.3	47.4	57.1	67.2	76.9	86.2	105.0	129.8	153.3
70°	40.6	46.7	57.8	70.0	81.9	99.7	131.8	162.7	192.4	225.8	267.4
67.5°	50.9	65.3	79.3	98.7	137.3	174.6	210.8	264.1	315.8	365.2	416.3
65°	69.0	84.9	120.4	164.3	207.1	268.8	330.9	390.8	463.4	535.4	604.1
62.5°	86.8	131.3	180.7	238.5	311.1	381.6	465.6	551.8	634.8	744.5	853.1
60°	131.3	186.2	255.4	336.6	420.9	521.5	619.1	743.1	873.1	998.0	1128.1
57.5°	180.7	255.4	345.1	443.3	555.3	673.0	824.3	970.9	1123.0	1271.3	1414.6
55°	238.5	336.6	443.3	566.6	705.5	873.5	1040.6	1213.4	1380.4	1547.7	1708.0
52.5°	311.1	420.9	555.3	705.5	889.9	1076.8	1268.2	1457.0	1644.2	1839.3	2066.4
50°	381.6	521.5	673.0	873.5	1076.8	1286.5	1495.6	1702.6	1942.5	2196.4	2505.1
47.5°	465.6	619.1	824.3	1040.6	1268.2	1495.6	1722.1	1994.4	2275.2	2660.9	3043.8
45°	551.8	743.1	970.9	1213.4	1457.0	1702.6	1994.4	2301.6	2739.4	3172.7	3623.7
42.5°	634.8	873.1	1123.0	1380.4	1644.2	1942.5	2275.2	2739.4	3216.8	3713.3	4126.2
40°	744.5	998.0	1271.3	1547.7	1839.3	2196.4	2660.9	3172.7	3713.3	4160.7	4544.2
37.5°	853.1	1128.1	1414.6	1708.0	2066.4	2505.1	3043.8	3623.7	4126.2	4544.2	5026.3
35°	956.2	1251.8	1555.3	1887.0	2283.1	2847.2	3445.9	4023.3	4473.9	4983.2	5678.4
32.5°	1059.0	1368.8	1688.5	2077.2	2576.3	3183.0	3831.6	4334.7	4854.7	5492.2	6632.8
30°	1158.8	1482.9	1825.4	2256.3	2861.0	3522.3	4129.0	4643.3	5233.4	6348.0	7334.8
27.5°	1251.8	1589.8	1979.1	2480.8	3133.3	3840.4	4387.7	4976.5	5879.9	7086.4	7889.4
25°	1337.7	1688.5	2121.3	2708.5	3406.5	4083.5	4641.6	5287.4	6587.3	7573.3	8217.7
22.5°	1417.9	1779.6	2251.7	2917.4	3657.5	4288.8	4907.7	5845.8	7140.8	8015.1	8472.6
20°	1492.0	1887.0	2401.5	3110.4	3885.3	4475.4	5149.9	6400.3	7524.9	8232.6	8791.3
17.5°	1557.9	1982.7	2555.9	3297.0	4047.8	4658.2	5406.6	6898.3	7870.6	8428.8	9119.3
15°	1615.4	2066.4	2691.0	3460.5	4182.4	4833.9	5810.8	7201.6	8094.1	8629.5	9414.7
12.5°	1664.4	2137.7	2806.2	3600.0	4297.5	4984.2	6157.1	7443.1	8231.8	8860.9	9803.3
10°	1704.8	2196.4	2901.2	3715.1	4392.4	5108.4	6443.4	7643.0	8346.0	9053.1	10126.8
7.5°	1736.3	2242.3	2975.4	3805.1	4466.7	5205.7	6668.1	7800.1	8435.8	9204.6	10382.1
5°	1758.9	2275.2	3028.7	3869.7	4520.1	5275.6	6829.6	7913.1	8500.5	9313.8	10566.6
2.5°	1772.5	2295.0	3060.7	3908.6	4552.3	5317.7	6927.0	7981.2	8539.5	9379.7	10678.1
0°	1777.0	2301.6	3071.4	3921.6	4563.0	5331.8	6959.5	8004.0	8552.6	9401.8	10715.4
-2.5°	1772.5	2295.0	3060.7	3908.6	4552.3	5317.7	6927.0	7981.2	8539.5	9379.7	10678.1
-5°	1758.9	2275.2	3028.7	3869.7	4520.1	5275.6	6829.6	7913.1	8500.5	9313.8	10566.6
-7.5°	1736.3	2242.3	2975.4	3805.1	4466.7	5205.7	6668.1	7800.1	8435.8	9204.6	10382.1
-10°	1704.8	2196.4	2901.2	3715.1	4392.4	5108.4	6443.4	7643.0	8346.0	9053.1	10126.8
-12.5°	1664.4	2137.7	2806.2	3600.0	4297.5	4984.2	6157.1	7443.1	8231.8	8860.9	9803.3
-15°	1615.4	2066.4	2691.0	3460.5	4182.4	4833.9	5810.8	7201.6	8094.1	8629.5	9414.7
-17.5°	1557.9	1982.7	2555.9	3297.0	4047.8	4658.2	5406.6	6898.3	7870.6	8428.8	9119.3
-20°	1492.0	1887.0	2401.5	3110.4	3885.3	4475.4	5149.9	6400.3	7524.9	8232.6	8791.3



REPORT NUMBER: P1212196 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-80-1S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1417.9	1779.6	2251.7	2917.4	3657.5	4288.8	4907.7	5845.8	7140.8	8015.1	8472.6
-25°	1337.7	1688.5	2121.3	2708.5	3406.5	4083.5	4641.6	5287.4	6587.3	7573.3	8217.7
-27.5°	1251.8	1589.8	1979.1	2480.8	3133.3	3840.4	4387.7	4976.5	5879.9	7086.4	7889.4
-30°	1158.8	1482.9	1825.4	2256.3	2861.0	3522.3	4129.0	4643.3	5233.4	6348.0	7334.8
-32.5°	1059.0	1368.8	1688.5	2077.2	2576.3	3183.0	3831.6	4334.7	4854.7	5492.2	6632.8
-35°	956.2	1251.8	1555.3	1887.0	2283.1	2847.2	3445.9	4023.3	4473.9	4983.2	5678.4
-37.5°	853.1	1128.1	1414.6	1708.0	2066.4	2505.1	3043.8	3623.7	4126.2	4544.2	5026.3
-40°	744.5	998.0	1271.3	1547.7	1839.3	2196.4	2660.9	3172.7	3713.3	4160.7	4544.2
-42.5°	634.8	873.1	1123.0	1380.4	1644.2	1942.5	2275.2	2739.4	3216.8	3713.3	4126.2
-45°	551.8	743.1	970.9	1213.4	1457.0	1702.6	1994.4	2301.6	2739.4	3172.7	3623.7
-47.5°	465.6	619.1	824.3	1040.6	1268.2	1495.6	1722.1	1994.4	2275.2	2660.9	3043.8
-50°	381.6	521.5	673.0	873.5	1076.8	1286.5	1495.6	1702.6	1942.5	2196.4	2505.1
-52.5°	311.1	420.9	555.3	705.5	889.9	1076.8	1268.2	1457.0	1644.2	1839.3	2066.4
-55°	238.5	336.6	443.3	566.6	705.5	873.5	1040.6	1213.4	1380.4	1547.7	1708.0
-57.5°	180.7	255.4	345.1	443.3	555.3	673.0	824.3	970.9	1123.0	1271.3	1414.6
-60°	131.3	186.2	255.4	336.6	420.9	521.5	619.1	743.1	873.1	998.0	1128.1
-62.5°	86.8	131.3	180.7	238.5	311.1	381.6	465.6	551.8	634.8	744.5	853.1
-65°	69.0	84.9	120.4	164.3	207.1	268.8	330.9	390.8	463.4	535.4	604.1
-67.5°	50.9	65.3	79.3	98.7	137.3	174.6	210.8	264.1	315.8	365.2	416.3
-70°	40.6	46.7	57.8	70.0	81.9	99.7	131.8	162.7	192.4	225.8	267.4
-72.5°	31.7	37.0	42.3	47.4	57.1	67.2	76.9	86.2	105.0	129.8	153.3
-75°	25.8	27.6	31.8	36.1	40.4	44.5	49.1	57.1	64.8	72.1	79.0
-77.5°	22.4	23.8	25.3	26.7	28.4	31.8	35.1	38.3	41.3	44.2	47.0
-80°	19.8	20.1	21.2	22.3	23.4	24.4	25.5	26.4	27.4	29.0	31.2
-82.5°	18.9	19.1	19.4	19.6	19.8	20.0	20.3	21.0	21.7	22.4	23.0
-85°	16.8	18.2	18.3	18.5	18.6	18.7	18.9	19.0	19.1	19.2	19.3
-87.5°	8.4	9.1	9.8	10.4	11.1	11.7	12.3	12.9	13.4	13.9	14.4
-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: P1212196 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	14.9	15.3	15.8	16.1	16.5	16.8	17.1	17.4	17.6	17.8	17.9
85°	19.4	19.5	19.6	19.7	19.7	19.8	19.9	19.9	20.0	20.0	20.0
82.5°	23.6	24.2	24.7	25.2	25.6	26.0	26.4	26.7	27.0	27.2	27.4
80°	33.2	35.2	37.0	38.7	40.3	41.7	43.0	44.1	45.1	46.0	46.7
77.5°	51.5	56.6	61.4	65.9	70.0	73.7	77.1	80.1	82.7	84.9	86.8
75°	85.6	95.3	112.0	127.6	141.9	154.9	166.7	177.1	186.2	193.9	200.3
72.5°	175.6	196.6	218.7	246.8	272.8	296.4	317.7	336.6	353.1	367.1	378.6
70°	306.9	344.1	378.9	414.9	453.9	489.4	521.5	550.0	574.8	595.9	613.3
67.5°	474.6	529.5	581.0	628.9	685.4	743.1	795.1	841.4	881.7	916.1	944.3
65°	680.0	767.9	850.3	927.0	998.0	1068.7	1132.5	1189.2	1238.8	1280.9	1315.6
62.5°	956.2	1059.0	1158.8	1251.8	1337.7	1417.9	1492.0	1557.9	1615.4	1664.4	1704.8
60°	1251.8	1368.8	1482.9	1589.8	1688.5	1779.6	1887.0	1982.7	2066.4	2137.7	2196.4
57.5°	1555.3	1688.5	1825.4	1979.1	2121.3	2251.7	2401.5	2555.9	2691.0	2806.2	2901.2
55°	1887.0	2077.2	2256.3	2480.8	2708.5	2917.4	3110.4	3297.0	3460.5	3600.0	3715.1
52.5°	2283.1	2576.3	2861.0	3133.3	3406.5	3657.5	3885.3	4047.8	4182.4	4297.5	4392.4
50°	2847.2	3183.0	3522.3	3840.4	4083.5	4288.8	4475.4	4658.2	4833.9	4984.2	5108.4
47.5°	3445.9	3831.6	4129.0	4387.7	4641.6	4907.7	5149.9	5406.6	5810.8	6157.1	6443.4
45°	4023.3	4334.7	4643.3	4976.5	5287.4	5845.8	6400.3	6898.3	7201.6	7443.1	7643.0
42.5°	4473.9	4854.7	5233.4	5879.9	6587.3	7140.8	7524.9	7870.6	8094.1	8231.8	8346.0
40°	4983.2	5492.2	6348.0	7086.4	7573.3	8015.1	8232.6	8428.8	8629.5	8860.9	9053.1
37.5°	5678.4	6632.8	7334.8	7889.4	8217.7	8472.6	8791.3	9119.3	9414.7	9803.3	10126.8
35°	6728.4	7460.3	8045.0	8355.5	8700.9	9124.2	9576.0	10123.8	10611.1	11127.7	11584.9
32.5°	7460.3	8078.9	8425.3	8867.1	9351.2	10025.3	10674.7	11429.9	12115.0	12793.5	13434.9
30°	8045.0	8425.3	8923.0	9501.7	10300.4	11151.6	12057.4	13019.4	13974.7	14869.2	15785.6
27.5°	8355.5	8867.1	9501.7	10393.0	11400.2	12449.3	13701.0	14925.8	16281.4	17470.4	18826.6
25°	8700.9	9351.2	10300.4	11400.2	12616.5	14048.4	15632.8	17257.8	19172.6	20930.1	22743.0
22.5°	9124.2	10025.3	11151.6	12449.3	14048.4	15871.9	17856.5	20229.5	22707.3	25205.6	28094.4
20°	9576.0	10674.7	12057.4	13701.0	15632.8	17856.5	20588.0	23685.6	27033.5	31896.0	37397.4
17.5°	10123.8	11429.9	13019.4	14925.8	17257.8	20229.5	23685.6	27962.9	33867.0	45455.8	57523.8
15°	10611.1	12115.0	13974.7	16281.4	19172.6	22707.3	27033.5	33867.0	48219.8	69530.7	98812.3
12.5°	11127.7	12793.5	14869.2	17470.4	20930.1	25205.6	31896.0	45455.8	69530.7	105924.2	160512.7
10°	11584.9	13434.9	15785.6	18826.6	22743.0	28094.4	37397.4	57523.8	98812.3	160512.7	230515.0
7.5°	11946.5	13943.6	16515.0	19912.0	24299.6	31159.6	46241.3	78302.4	134183.2	212075.2	303693.8
5°	12208.2	14312.5	17045.4	20704.1	25440.5	33419.3	52811.9	94530.0	166115.1	259776.3	364354.9
2.5°	12366.6	14536.2	17367.6	21186.4	26137.5	34805.6	56866.3	104625.6	186220.4	291580.4	406029.3
0°	12419.6	14611.1	17475.7	21348.4	26372.0	35273.1	58237.7	108055.8	193098.2	302651.5	420817.5
-2.5°	12366.6	14536.2	17367.6	21186.4	26137.5	34805.6	56866.3	104625.6	186220.4	291580.4	406029.3
-5°	12208.2	14312.5	17045.4	20704.1	25440.5	33419.3	52811.9	94530.0	166115.1	259776.3	364354.9
-7.5°	11946.5	13943.6	16515.0	19912.0	24299.6	31159.6	46241.3	78302.4	134183.2	212075.2	303693.8
-10°	11584.9	13434.9	15785.6	18826.6	22743.0	28094.4	37397.4	57523.8	98812.3	160512.7	230515.0
-12.5°	11127.7	12793.5	14869.2	17470.4	20930.1	25205.6	31896.0	45455.8	69530.7	105924.2	160512.7
-15°	10611.1	12115.0	13974.7	16281.4	19172.6	22707.3	27033.5	33867.0	48219.8	69530.7	98812.3
-17.5°	10123.8	11429.9	13019.4	14925.8	17257.8	20229.5	23685.6	27962.9	33867.0	45455.8	57523.8
-20°	9576.0	10674.7	12057.4	13701.0	15632.8	17856.5	20588.0	23685.6	27033.5	31896.0	37397.4



REPORT NUMBER: P1212196 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-80-1S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	9124.2	10025.3	11151.6	12449.3	14048.4	15871.9	17856.5	20229.5	22707.3	25205.6	28094.4
-25°	8700.9	9351.2	10300.4	11400.2	12616.5	14048.4	15632.8	17257.8	19172.6	20930.1	22743.0
-27.5°	8355.5	8867.1	9501.7	10393.0	11400.2	12449.3	13701.0	14925.8	16281.4	17470.4	18826.6
-30°	8045.0	8425.3	8923.0	9501.7	10300.4	11151.6	12057.4	13019.4	13974.7	14869.2	15785.6
-32.5°	7460.3	8078.9	8425.3	8867.1	9351.2	10025.3	10674.7	11429.9	12115.0	12793.5	13434.9
-35°	6728.4	7460.3	8045.0	8355.5	8700.9	9124.2	9576.0	10123.8	10611.1	11127.7	11584.9
-37.5°	5678.4	6632.8	7334.8	7889.4	8217.7	8472.6	8791.3	9119.3	9414.7	9803.3	10126.8
-40°	4983.2	5492.2	6348.0	7086.4	7573.3	8015.1	8232.6	8428.8	8629.5	8860.9	9053.1
-42.5°	4473.9	4854.7	5233.4	5879.9	6587.3	7140.8	7524.9	7870.6	8094.1	8231.8	8346.0
-45°	4023.3	4334.7	4643.3	4976.5	5287.4	5845.8	6400.3	6898.3	7201.6	7443.1	7643.0
-47.5°	3445.9	3831.6	4129.0	4387.7	4641.6	4907.7	5149.9	5406.6	5810.8	6157.1	6443.4
-50°	2847.2	3183.0	3522.3	3840.4	4083.5	4288.8	4475.4	4658.2	4833.9	4984.2	5108.4
-52.5°	2283.1	2576.3	2861.0	3133.3	3406.5	3657.5	3885.3	4047.8	4182.4	4297.5	4392.4
-55°	1887.0	2077.2	2256.3	2480.8	2708.5	2917.4	3110.4	3297.0	3460.5	3600.0	3715.1
-57.5°	1555.3	1688.5	1825.4	1979.1	2121.3	2251.7	2401.5	2555.9	2691.0	2806.2	2901.2
-60°	1251.8	1368.8	1482.9	1589.8	1688.5	1779.6	1887.0	1982.7	2066.4	2137.7	2196.4
-62.5°	956.2	1059.0	1158.8	1251.8	1337.7	1417.9	1492.0	1557.9	1615.4	1664.4	1704.8
-65°	680.0	767.9	850.3	927.0	998.0	1068.7	1132.5	1189.2	1238.8	1280.9	1315.6
-67.5°	474.6	529.5	581.0	628.9	685.4	743.1	795.1	841.4	881.7	916.1	944.3
-70°	306.9	344.1	378.9	414.9	453.9	489.4	521.5	550.0	574.8	595.9	613.3
-72.5°	175.6	196.6	218.7	246.8	272.8	296.4	317.7	336.6	353.1	367.1	378.6
-75°	85.6	95.3	112.0	127.6	141.9	154.9	166.7	177.1	186.2	193.9	200.3
-77.5°	51.5	56.6	61.4	65.9	70.0	73.7	77.1	80.1	82.7	84.9	86.8
-80°	33.2	35.2	37.0	38.7	40.3	41.7	43.0	44.1	45.1	46.0	46.7
-82.5°	23.6	24.2	24.7	25.2	25.6	26.0	26.4	26.7	27.0	27.2	27.4
-85°	19.4	19.5	19.6	19.7	19.7	19.8	19.9	19.9	20.0	20.0	20.0
-87.5°	14.9	15.3	15.8	16.1	16.5	16.8	17.1	17.4	17.6	17.8	17.9
-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: P1212196 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-80-1S-HEG

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°	18.0	18.1	18.2	18.2	18.2	18.1	18.0	17.9	17.8	17.6	17.4
85°	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.0	20.0	20.0	19.9
82.5°	27.6	27.7	27.8	27.8	27.8	27.7	27.6	27.4	27.2	27.0	26.7
80°	47.2	47.6	47.8	47.9	47.8	47.6	47.2	46.7	46.0	45.1	44.1
77.5°	88.2	89.2	89.8	90.0	89.8	89.2	88.2	86.8	84.9	82.7	80.1
75°	205.2	208.8	210.9	211.6	210.9	208.8	205.2	200.3	193.9	186.2	177.1
72.5°	387.6	394.0	397.9	399.2	397.9	394.0	387.6	378.6	367.1	353.1	336.6
70°	626.8	636.5	642.4	644.3	642.4	636.5	626.8	613.3	595.9	574.8	550.0
67.5°	966.4	982.1	991.6	994.8	991.6	982.1	966.4	944.3	916.1	881.7	841.4
65°	1342.7	1362.1	1373.8	1377.7	1373.8	1362.1	1342.7	1315.6	1280.9	1238.8	1189.2
62.5°	1736.3	1758.9	1772.5	1777.0	1772.5	1758.9	1736.3	1704.8	1664.4	1615.4	1557.9
60°	2242.3	2275.2	2295.0	2301.6	2295.0	2275.2	2242.3	2196.4	2137.7	2066.4	1982.7
57.5°	2975.4	3028.7	3060.7	3071.4	3060.7	3028.7	2975.4	2901.2	2806.2	2691.0	2555.9
55°	3805.1	3869.7	3908.6	3921.6	3908.6	3869.7	3805.1	3715.1	3600.0	3460.5	3297.0
52.5°	4466.7	4520.1	4552.3	4563.0	4552.3	4520.1	4466.7	4392.4	4297.5	4182.4	4047.8
50°	5205.7	5275.6	5317.7	5331.8	5317.7	5275.6	5205.7	5108.4	4984.2	4833.9	4658.2
47.5°	6668.1	6829.6	6927.0	6959.5	6927.0	6829.6	6668.1	6443.4	6157.1	5810.8	5406.6
45°	7800.1	7913.1	7981.2	8004.0	7981.2	7913.1	7800.1	7643.0	7443.1	7201.6	6898.3
42.5°	8435.8	8500.5	8539.5	8552.6	8539.5	8500.5	8435.8	8346.0	8231.8	8094.1	7870.6
40°	9204.6	9313.8	9379.7	9401.8	9379.7	9313.8	9204.6	9053.1	8860.9	8629.5	8428.8
37.5°	10382.1	10566.6	10678.1	10715.4	10678.1	10566.6	10382.1	10126.8	9803.3	9414.7	9119.3
35°	11946.5	12208.2	12366.6	12419.6	12366.6	12208.2	11946.5	11584.9	11127.7	10611.1	10123.8
32.5°	13943.6	14312.5	14536.2	14611.1	14536.2	14312.5	13943.6	13434.9	12793.5	12115.0	11429.9
30°	16515.0	17045.4	17367.6	17475.7	17367.6	17045.4	16515.0	15785.6	14869.2	13974.7	13019.4
27.5°	19912.0	20704.1	21186.4	21348.4	21186.4	20704.1	19912.0	18826.6	17470.4	16281.4	14925.8
25°	24299.6	25440.5	26137.5	26372.0	26137.5	25440.5	24299.6	22743.0	20930.1	19172.6	17257.8
22.5°	31159.6	33419.3	34805.6	35273.1	34805.6	33419.3	31159.6	28094.4	25205.6	22707.3	20229.5
20°	46241.3	52811.9	56866.3	58237.7	56866.3	52811.9	46241.3	37397.4	31896.0	27033.5	23685.6
17.5°	78302.4	94530.0	104625.6	108055.8	104625.6	94530.0	78302.4	57523.8	45455.8	33867.0	27962.9
15°	134183.2	166115.1	186220.4	193098.2	186220.4	166115.1	134183.2	98812.3	69530.7	48219.8	33867.0
12.5°	212075.2	259776.3	291580.4	302651.5	291580.4	259776.3	212075.2	160512.7	105924.2	69530.7	45455.8
10°	303693.8	364354.9	406029.3	420817.5	406029.3	364354.9	303693.8	230515.0	160512.7	98812.3	57523.8
7.5°	392112.1	470805.1	528774.9	550083.0	528774.9	470805.1	392112.1	303693.8	212075.2	134183.2	78302.4
5°	470805.1	572975.2	657742.2	692180.6	657742.2	572975.2	470805.1	364354.9	259776.3	166115.1	94530.0
2.5°	528774.9	657742.2	781911.7	839617.8	781911.7	657742.2	528774.9	406029.3	291580.4	186220.4	104625.6
0°	550083.0	692180.6	839617.8	908663.7	839617.8	692180.6	550083.0	420817.5	302651.5	193098.2	108055.8
-2.5°	528774.9	657742.2	781911.7	839617.8	781911.7	657742.2	528774.9	406029.3	291580.4	186220.4	104625.6
-5°	470805.1	572975.2	657742.2	692180.6	657742.2	572975.2	470805.1	364354.9	259776.3	166115.1	94530.0
-7.5°	392112.1	470805.1	528774.9	550083.0	528774.9	470805.1	392112.1	303693.8	212075.2	134183.2	78302.4
-10°	303693.8	364354.9	406029.3	420817.5	406029.3	364354.9	303693.8	230515.0	160512.7	98812.3	57523.8
-12.5°	212075.2	259776.3	291580.4	302651.5	291580.4	259776.3	212075.2	160512.7	105924.2	69530.7	45455.8
-15°	134183.2	166115.1	186220.4	193098.2	186220.4	166115.1	134183.2	98812.3	69530.7	48219.8	33867.0
-17.5°	78302.4	94530.0	104625.6	108055.8	104625.6	94530.0	78302.4	57523.8	45455.8	33867.0	27962.9
-20°	46241.3	52811.9	56866.3	58237.7	56866.3	52811.9	46241.3	37397.4	31896.0	27033.5	23685.6



REPORT NUMBER: P1212196 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-80-1S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	31159.6	33419.3	34805.6	35273.1	34805.6	33419.3	31159.6	28094.4	25205.6	22707.3	20229.5
-25°	24299.6	25440.5	26137.5	26372.0	26137.5	25440.5	24299.6	22743.0	20930.1	19172.6	17257.8
-27.5°	19912.0	20704.1	21186.4	21348.4	21186.4	20704.1	19912.0	18826.6	17470.4	16281.4	14925.8
-30°	16515.0	17045.4	17367.6	17475.7	17367.6	17045.4	16515.0	15785.6	14869.2	13974.7	13019.4
-32.5°	13943.6	14312.5	14536.2	14611.1	14536.2	14312.5	13943.6	13434.9	12793.5	12115.0	11429.9
-35°	11946.5	12208.2	12366.6	12419.6	12366.6	12208.2	11946.5	11584.9	11127.7	10611.1	10123.8
-37.5°	10382.1	10566.6	10678.1	10715.4	10678.1	10566.6	10382.1	10126.8	9803.3	9414.7	9119.3
-40°	9204.6	9313.8	9379.7	9401.8	9379.7	9313.8	9204.6	9053.1	8860.9	8629.5	8428.8
-42.5°	8435.8	8500.5	8539.5	8552.6	8539.5	8500.5	8435.8	8346.0	8231.8	8094.1	7870.6
-45°	7800.1	7913.1	7981.2	8004.0	7981.2	7913.1	7800.1	7643.0	7443.1	7201.6	6898.3
-47.5°	6668.1	6829.6	6927.0	6959.5	6927.0	6829.6	6668.1	6443.4	6157.1	5810.8	5406.6
-50°	5205.7	5275.6	5317.7	5331.8	5317.7	5275.6	5205.7	5108.4	4984.2	4833.9	4658.2
-52.5°	4466.7	4520.1	4552.3	4563.0	4552.3	4520.1	4466.7	4392.4	4297.5	4182.4	4047.8
-55°	3805.1	3869.7	3908.6	3921.6	3908.6	3869.7	3805.1	3715.1	3600.0	3460.5	3297.0
-57.5°	2975.4	3028.7	3060.7	3071.4	3060.7	3028.7	2975.4	2901.2	2806.2	2691.0	2555.9
-60°	2242.3	2275.2	2295.0	2301.6	2295.0	2275.2	2242.3	2196.4	2137.7	2066.4	1982.7
-62.5°	1736.3	1758.9	1772.5	1777.0	1772.5	1758.9	1736.3	1704.8	1664.4	1615.4	1557.9
-65°	1342.7	1362.1	1373.8	1377.7	1373.8	1362.1	1342.7	1315.6	1280.9	1238.8	1189.2
-67.5°	966.4	982.1	991.6	994.8	991.6	982.1	966.4	944.3	916.1	881.7	841.4
-70°	626.8	636.5	642.4	644.3	642.4	636.5	626.8	613.3	595.9	574.8	550.0
-72.5°	387.6	394.0	397.9	399.2	397.9	394.0	387.6	378.6	367.1	353.1	336.6
-75°	205.2	208.8	210.9	211.6	210.9	208.8	205.2	200.3	193.9	186.2	177.1
-77.5°	88.2	89.2	89.8	90.0	89.8	89.2	88.2	86.8	84.9	82.7	80.1
-80°	47.2	47.6	47.8	47.9	47.8	47.6	47.2	46.7	46.0	45.1	44.1
-82.5°	27.6	27.7	27.8	27.8	27.8	27.7	27.6	27.4	27.2	27.0	26.7
-85°	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.0	20.0	20.0	19.9
-87.5°	18.0	18.1	18.2	18.2	18.2	18.1	18.0	17.9	17.8	17.6	17.4
-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: P1212196 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	17.1	16.8	16.5	16.1	15.8	15.3	14.9	14.4	13.9	13.4	12.9
85°	19.9	19.8	19.7	19.7	19.6	19.5	19.4	19.3	19.2	19.1	19.0
82.5°	26.4	26.0	25.6	25.2	24.7	24.2	23.6	23.0	22.4	21.7	21.0
80°	43.0	41.7	40.3	38.7	37.0	35.2	33.2	31.2	29.0	27.4	26.4
77.5°	77.1	73.7	70.0	65.9	61.4	56.6	51.5	47.0	44.2	41.3	38.3
75°	166.7	154.9	141.9	127.6	112.0	95.3	85.6	79.0	72.1	64.8	57.1
72.5°	317.7	296.4	272.8	246.8	218.7	196.6	175.6	153.3	129.8	105.0	86.2
70°	521.5	489.4	453.9	414.9	378.9	344.1	306.9	267.4	225.8	192.4	162.7
67.5°	795.1	743.1	685.4	628.9	581.0	529.5	474.6	416.3	365.2	315.8	264.1
65°	1132.5	1068.7	998.0	927.0	850.3	767.9	680.0	604.1	535.4	463.4	390.8
62.5°	1492.0	1417.9	1337.7	1251.8	1158.8	1059.0	956.2	853.1	744.5	634.8	551.8
60°	1887.0	1779.6	1688.5	1589.8	1482.9	1368.8	1251.8	1128.1	998.0	873.1	743.1
57.5°	2401.5	2251.7	2121.3	1979.1	1825.4	1688.5	1555.3	1414.6	1271.3	1123.0	970.9
55°	3110.4	2917.4	2708.5	2480.8	2256.3	2077.2	1887.0	1708.0	1547.7	1380.4	1213.4
52.5°	3885.3	3657.5	3406.5	3133.3	2861.0	2576.3	2283.1	2066.4	1839.3	1644.2	1457.0
50°	4475.4	4288.8	4083.5	3840.4	3522.3	3183.0	2847.2	2505.1	2196.4	1942.5	1702.6
47.5°	5149.9	4907.7	4641.6	4387.7	4129.0	3831.6	3445.9	3043.8	2660.9	2275.2	1994.4
45°	6400.3	5845.8	5287.4	4976.5	4643.3	4334.7	4023.3	3623.7	3172.7	2739.4	2301.6
42.5°	7524.9	7140.8	6587.3	5879.9	5233.4	4854.7	4473.9	4126.2	3713.3	3216.8	2739.4
40°	8232.6	8015.1	7573.3	7086.4	6348.0	5492.2	4983.2	4544.2	4160.7	3713.3	3172.7
37.5°	8791.3	8472.6	8217.7	7889.4	7334.8	6632.8	5678.4	5026.3	4544.2	4126.2	3623.7
35°	9576.0	9124.2	8700.9	8355.5	8045.0	7460.3	6728.4	5678.4	4983.2	4473.9	4023.3
32.5°	10674.7	10025.3	9351.2	8867.1	8425.3	8078.9	7460.3	6632.8	5492.2	4854.7	4334.7
30°	12057.4	11151.6	10300.4	9501.7	8923.0	8425.3	8045.0	7334.8	6348.0	5233.4	4643.3
27.5°	13701.0	12449.3	11400.2	10393.0	9501.7	8867.1	8355.5	7889.4	7086.4	5879.9	4976.5
25°	15632.8	14048.4	12616.5	11400.2	10300.4	9351.2	8700.9	8217.7	7573.3	6587.3	5287.4
22.5°	17856.5	15871.9	14048.4	12449.3	11151.6	10025.3	9124.2	8472.6	8015.1	7140.8	5845.8
20°	20588.0	17856.5	15632.8	13701.0	12057.4	10674.7	9576.0	8791.3	8232.6	7524.9	6400.3
17.5°	23685.6	20229.5	17257.8	14925.8	13019.4	11429.9	10123.8	9119.3	8428.8	7870.6	6898.3
15°	27033.5	22707.3	19172.6	16281.4	13974.7	12115.0	10611.1	9414.7	8629.5	8094.1	7201.6
12.5°	31896.0	25205.6	20930.1	17470.4	14869.2	12793.5	11127.7	9803.3	8860.9	8231.8	7443.1
10°	37397.4	28094.4	22743.0	18826.6	15785.6	13434.9	11584.9	10126.8	9053.1	8346.0	7643.0
7.5°	46241.3	31159.6	24299.6	19912.0	16515.0	13943.6	11946.5	10382.1	9204.6	8435.8	7800.1
5°	52811.9	33419.3	25440.5	20704.1	17045.4	14312.5	12208.2	10566.6	9313.8	8500.5	7913.1
2.5°	56866.3	34805.6	26137.5	21186.4	17367.6	14536.2	12366.6	10678.1	9379.7	8539.5	7981.2
0°	58237.7	35273.1	26372.0	21348.4	17475.7	14611.1	12419.6	10715.4	9401.8	8552.6	8004.0
-2.5°	56866.3	34805.6	26137.5	21186.4	17367.6	14536.2	12366.6	10678.1	9379.7	8539.5	7981.2
-5°	52811.9	33419.3	25440.5	20704.1	17045.4	14312.5	12208.2	10566.6	9313.8	8500.5	7913.1
-7.5°	46241.3	31159.6	24299.6	19912.0	16515.0	13943.6	11946.5	10382.1	9204.6	8435.8	7800.1
-10°	37397.4	28094.4	22743.0	18826.6	15785.6	13434.9	11584.9	10126.8	9053.1	8346.0	7643.0
-12.5°	31896.0	25205.6	20930.1	17470.4	14869.2	12793.5	11127.7	9803.3	8860.9	8231.8	7443.1
-15°	27033.5	22707.3	19172.6	16281.4	13974.7	12115.0	10611.1	9414.7	8629.5	8094.1	7201.6
-17.5°	23685.6	20229.5	17257.8	14925.8	13019.4	11429.9	10123.8	9119.3	8428.8	7870.6	6898.3
-20°	20588.0	17856.5	15632.8	13701.0	12057.4	10674.7	9576.0	8791.3	8232.6	7524.9	6400.3



REPORT NUMBER: P1212196 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-80-1S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	17856.5	15871.9	14048.4	12449.3	11151.6	10025.3	9124.2	8472.6	8015.1	7140.8	5845.8
-25°	15632.8	14048.4	12616.5	11400.2	10300.4	9351.2	8700.9	8217.7	7573.3	6587.3	5287.4
-27.5°	13701.0	12449.3	11400.2	10393.0	9501.7	8867.1	8355.5	7889.4	7086.4	5879.9	4976.5
-30°	12057.4	11151.6	10300.4	9501.7	8923.0	8425.3	8045.0	7334.8	6348.0	5233.4	4643.3
-32.5°	10674.7	10025.3	9351.2	8867.1	8425.3	8078.9	7460.3	6632.8	5492.2	4854.7	4334.7
-35°	9576.0	9124.2	8700.9	8355.5	8045.0	7460.3	6728.4	5678.4	4983.2	4473.9	4023.3
-37.5°	8791.3	8472.6	8217.7	7889.4	7334.8	6632.8	5678.4	5026.3	4544.2	4126.2	3623.7
-40°	8232.6	8015.1	7573.3	7086.4	6348.0	5492.2	4983.2	4544.2	4160.7	3713.3	3172.7
-42.5°	7524.9	7140.8	6587.3	5879.9	5233.4	4854.7	4473.9	4126.2	3713.3	3216.8	2739.4
-45°	6400.3	5845.8	5287.4	4976.5	4643.3	4334.7	4023.3	3623.7	3172.7	2739.4	2301.6
-47.5°	5149.9	4907.7	4641.6	4387.7	4129.0	3831.6	3445.9	3043.8	2660.9	2275.2	1994.4
-50°	4475.4	4288.8	4083.5	3840.4	3522.3	3183.0	2847.2	2505.1	2196.4	1942.5	1702.6
-52.5°	3885.3	3657.5	3406.5	3133.3	2861.0	2576.3	2283.1	2066.4	1839.3	1644.2	1457.0
-55°	3110.4	2917.4	2708.5	2480.8	2256.3	2077.2	1887.0	1708.0	1547.7	1380.4	1213.4
-57.5°	2401.5	2251.7	2121.3	1979.1	1825.4	1688.5	1555.3	1414.6	1271.3	1123.0	970.9
-60°	1887.0	1779.6	1688.5	1589.8	1482.9	1368.8	1251.8	1128.1	998.0	873.1	743.1
-62.5°	1492.0	1417.9	1337.7	1251.8	1158.8	1059.0	956.2	853.1	744.5	634.8	551.8
-65°	1132.5	1068.7	998.0	927.0	850.3	767.9	680.0	604.1	535.4	463.4	390.8
-67.5°	795.1	743.1	685.4	628.9	581.0	529.5	474.6	416.3	365.2	315.8	264.1
-70°	521.5	489.4	453.9	414.9	378.9	344.1	306.9	267.4	225.8	192.4	162.7
-72.5°	317.7	296.4	272.8	246.8	218.7	196.6	175.6	153.3	129.8	105.0	86.2
-75°	166.7	154.9	141.9	127.6	112.0	95.3	85.6	79.0	72.1	64.8	57.1
-77.5°	77.1	73.7	70.0	65.9	61.4	56.6	51.5	47.0	44.2	41.3	38.3
-80°	43.0	41.7	40.3	38.7	37.0	35.2	33.2	31.2	29.0	27.4	26.4
-82.5°	26.4	26.0	25.6	25.2	24.7	24.2	23.6	23.0	22.4	21.7	21.0
-85°	19.9	19.8	19.7	19.7	19.6	19.5	19.4	19.3	19.2	19.1	19.0
-87.5°	17.1	16.8	16.5	16.1	15.8	15.3	14.9	14.4	13.9	13.4	12.9
-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: P1212196 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-80-1S-HEG

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°	12.3	11.7	11.1	10.4	9.8	9.1	8.4	7.7	7.0	6.2	5.5
85°	18.9	18.7	18.6	18.5	18.3	18.2	16.8	15.4	13.9	12.4	10.9
82.5°	20.3	20.0	19.8	19.6	19.4	19.1	18.9	18.7	18.5	18.2	16.4
80°	25.5	24.4	23.4	22.3	21.2	20.1	19.8	19.5	19.2	18.9	18.6
77.5°	35.1	31.8	28.4	26.7	25.3	23.8	22.4	20.9	19.9	19.5	19.1
75°	49.1	44.5	40.4	36.1	31.8	27.6	25.8	24.0	22.2	20.3	19.7
72.5°	76.9	67.2	57.1	47.4	42.3	37.0	31.7	27.2	25.1	22.9	20.7
70°	131.8	99.7	81.9	70.0	57.8	46.7	40.6	34.3	28.0	25.4	22.9
67.5°	210.8	174.6	137.3	98.7	79.3	65.3	50.9	42.3	35.2	28.0	25.1
65°	330.9	268.8	207.1	164.3	120.4	84.9	69.0	52.8	42.3	34.3	27.2
62.5°	465.6	381.6	311.1	238.5	180.7	131.3	86.8	69.0	50.9	40.6	31.7
60°	619.1	521.5	420.9	336.6	255.4	186.2	131.3	84.9	65.3	46.7	37.0
57.5°	824.3	673.0	555.3	443.3	345.1	255.4	180.7	120.4	79.3	57.8	42.3
55°	1040.6	873.5	705.5	566.6	443.3	336.6	238.5	164.3	98.7	70.0	47.4
52.5°	1268.2	1076.8	889.9	705.5	555.3	420.9	311.1	207.1	137.3	81.9	57.1
50°	1495.6	1286.5	1076.8	873.5	673.0	521.5	381.6	268.8	174.6	99.7	67.2
47.5°	1722.1	1495.6	1268.2	1040.6	824.3	619.1	465.6	330.9	210.8	131.8	76.9
45°	1994.4	1702.6	1457.0	1213.4	970.9	743.1	551.8	390.8	264.1	162.7	86.2
42.5°	2275.2	1942.5	1644.2	1380.4	1123.0	873.1	634.8	463.4	315.8	192.4	105.0
40°	2660.9	2196.4	1839.3	1547.7	1271.3	998.0	744.5	535.4	365.2	225.8	129.8
37.5°	3043.8	2505.1	2066.4	1708.0	1414.6	1128.1	853.1	604.1	416.3	267.4	153.3
35°	3445.9	2847.2	2283.1	1887.0	1555.3	1251.8	956.2	680.0	474.6	306.9	175.6
32.5°	3831.6	3183.0	2576.3	2077.2	1688.5	1368.8	1059.0	767.9	529.5	344.1	196.6
30°	4129.0	3522.3	2861.0	2256.3	1825.4	1482.9	1158.8	850.3	581.0	378.9	218.7
27.5°	4387.7	3840.4	3133.3	2480.8	1979.1	1589.8	1251.8	927.0	628.9	414.9	246.8
25°	4641.6	4083.5	3406.5	2708.5	2121.3	1688.5	1337.7	998.0	685.4	453.9	272.8
22.5°	4907.7	4288.8	3657.5	2917.4	2251.7	1779.6	1417.9	1068.7	743.1	489.4	296.4
20°	5149.9	4475.4	3885.3	3110.4	2401.5	1887.0	1492.0	1132.5	795.1	521.5	317.7
17.5°	5406.6	4658.2	4047.8	3297.0	2555.9	1982.7	1557.9	1189.2	841.4	550.0	336.6
15°	5810.8	4833.9	4182.4	3460.5	2691.0	2066.4	1615.4	1238.8	881.7	574.8	353.1
12.5°	6157.1	4984.2	4297.5	3600.0	2806.2	2137.7	1664.4	1280.9	916.1	595.9	367.1
10°	6443.4	5108.4	4392.4	3715.1	2901.2	2196.4	1704.8	1315.6	944.3	613.3	378.6
7.5°	6668.1	5205.7	4466.7	3805.1	2975.4	2242.3	1736.3	1342.7	966.4	626.8	387.6
5°	6829.6	5275.6	4520.1	3869.7	3028.7	2275.2	1758.9	1362.1	982.1	636.5	394.0
2.5°	6927.0	5317.7	4552.3	3908.6	3060.7	2295.0	1772.5	1373.8	991.6	642.4	397.9
0°	6959.5	5331.8	4563.0	3921.6	3071.4	2301.6	1777.0	1377.7	994.8	644.3	399.2
-2.5°	6927.0	5317.7	4552.3	3908.6	3060.7	2295.0	1772.5	1373.8	991.6	642.4	397.9
-5°	6829.6	5275.6	4520.1	3869.7	3028.7	2275.2	1758.9	1362.1	982.1	636.5	394.0
-7.5°	6668.1	5205.7	4466.7	3805.1	2975.4	2242.3	1736.3	1342.7	966.4	626.8	387.6
-10°	6443.4	5108.4	4392.4	3715.1	2901.2	2196.4	1704.8	1315.6	944.3	613.3	378.6
-12.5°	6157.1	4984.2	4297.5	3600.0	2806.2	2137.7	1664.4	1280.9	916.1	595.9	367.1
-15°	5810.8	4833.9	4182.4	3460.5	2691.0	2066.4	1615.4	1238.8	881.7	574.8	353.1
-17.5°	5406.6	4658.2	4047.8	3297.0	2555.9	1982.7	1557.9	1189.2	841.4	550.0	336.6
-20°	5149.9	4475.4	3885.3	3110.4	2401.5	1887.0	1492.0	1132.5	795.1	521.5	317.7



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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°	4907.7	4288.8	3657.5	2917.4	2251.7	1779.6	1417.9	1068.7	743.1	489.4	296.4
-25°	4641.6	4083.5	3406.5	2708.5	2121.3	1688.5	1337.7	998.0	685.4	453.9	272.8
-27.5°	4387.7	3840.4	3133.3	2480.8	1979.1	1589.8	1251.8	927.0	628.9	414.9	246.8
-30°	4129.0	3522.3	2861.0	2256.3	1825.4	1482.9	1158.8	850.3	581.0	378.9	218.7
-32.5°	3831.6	3183.0	2576.3	2077.2	1688.5	1368.8	1059.0	767.9	529.5	344.1	196.6
-35°	3445.9	2847.2	2283.1	1887.0	1555.3	1251.8	956.2	680.0	474.6	306.9	175.6
-37.5°	3043.8	2505.1	2066.4	1708.0	1414.6	1128.1	853.1	604.1	416.3	267.4	153.3
-40°	2660.9	2196.4	1839.3	1547.7	1271.3	998.0	744.5	535.4	365.2	225.8	129.8
-42.5°	2275.2	1942.5	1644.2	1380.4	1123.0	873.1	634.8	463.4	315.8	192.4	105.0
-45°	1994.4	1702.6	1457.0	1213.4	970.9	743.1	551.8	390.8	264.1	162.7	86.2
-47.5°	1722.1	1495.6	1268.2	1040.6	824.3	619.1	465.6	330.9	210.8	131.8	76.9
-50°	1495.6	1286.5	1076.8	873.5	673.0	521.5	381.6	268.8	174.6	99.7	67.2
-52.5°	1268.2	1076.8	889.9	705.5	555.3	420.9	311.1	207.1	137.3	81.9	57.1
-55°	1040.6	873.5	705.5	566.6	443.3	336.6	238.5	164.3	98.7	70.0	47.4
-57.5°	824.3	673.0	555.3	443.3	345.1	255.4	180.7	120.4	79.3	57.8	42.3
-60°	619.1	521.5	420.9	336.6	255.4	186.2	131.3	84.9	65.3	46.7	37.0
-62.5°	465.6	381.6	311.1	238.5	180.7	131.3	86.8	69.0	50.9	40.6	31.7
-65°	330.9	268.8	207.1	164.3	120.4	84.9	69.0	52.8	42.3	34.3	27.2
-67.5°	210.8	174.6	137.3	98.7	79.3	65.3	50.9	42.3	35.2	28.0	25.1
-70°	131.8	99.7	81.9	70.0	57.8	46.7	40.6	34.3	28.0	25.4	22.9
-72.5°	76.9	67.2	57.1	47.4	42.3	37.0	31.7	27.2	25.1	22.9	20.7
-75°	49.1	44.5	40.4	36.1	31.8	27.6	25.8	24.0	22.2	20.3	19.7
-77.5°	35.1	31.8	28.4	26.7	25.3	23.8	22.4	20.9	19.9	19.5	19.1
-80°	25.5	24.4	23.4	22.3	21.2	20.1	19.8	19.5	19.2	18.9	18.6
-82.5°	20.3	20.0	19.8	19.6	19.4	19.1	18.9	18.7	18.5	18.2	16.4
-85°	18.9	18.7	18.6	18.5	18.3	18.2	16.8	15.4	13.9	12.4	10.9
-87.5°	12.3	11.7	11.1	10.4	9.8	9.1	8.4	7.7	7.0	6.2	5.5
-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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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°	4.7	3.9	3.2	2.4	1.6	0.8	0.0
85°	9.4	7.9	6.3	4.7	3.2	1.6	0.0
82.5°	14.1	11.8	9.5	7.1	4.7	2.4	0.0
80°	18.3	15.7	12.6	9.5	6.3	3.2	0.0
77.5°	18.7	18.3	15.7	11.8	7.9	3.9	0.0
75°	19.2	18.7	18.3	14.1	9.4	4.7	0.0
72.5°	19.7	19.1	18.6	16.4	10.9	5.5	0.0
70°	20.3	19.5	18.9	18.2	12.4	6.2	0.0
67.5°	22.2	19.9	19.2	18.5	13.9	7.0	0.0
65°	24.0	20.9	19.5	18.7	15.4	7.7	0.0
62.5°	25.8	22.4	19.8	18.9	16.8	8.4	0.0
60°	27.6	23.8	20.1	19.1	18.2	9.1	0.0
57.5°	31.8	25.3	21.2	19.4	18.3	9.8	0.0
55°	36.1	26.7	22.3	19.6	18.5	10.4	0.0
52.5°	40.4	28.4	23.4	19.8	18.6	11.1	0.0
50°	44.5	31.8	24.4	20.0	18.7	11.7	0.0
47.5°	49.1	35.1	25.5	20.3	18.9	12.3	0.0
45°	57.1	38.3	26.4	21.0	19.0	12.9	0.0
42.5°	64.8	41.3	27.4	21.7	19.1	13.4	0.0
40°	72.1	44.2	29.0	22.4	19.2	13.9	0.0
37.5°	79.0	47.0	31.2	23.0	19.3	14.4	0.0
35°	85.6	51.5	33.2	23.6	19.4	14.9	0.0
32.5°	95.3	56.6	35.2	24.2	19.5	15.3	0.0
30°	112.0	61.4	37.0	24.7	19.6	15.8	0.0
27.5°	127.6	65.9	38.7	25.2	19.7	16.1	0.0
25°	141.9	70.0	40.3	25.6	19.7	16.5	0.0
22.5°	154.9	73.7	41.7	26.0	19.8	16.8	0.0
20°	166.7	77.1	43.0	26.4	19.9	17.1	0.0
17.5°	177.1	80.1	44.1	26.7	19.9	17.4	0.0
15°	186.2	82.7	45.1	27.0	20.0	17.6	0.0
12.5°	193.9	84.9	46.0	27.2	20.0	17.8	0.0
10°	200.3	86.8	46.7	27.4	20.0	17.9	0.0
7.5°	205.2	88.2	47.2	27.6	20.1	18.0	0.0
5°	208.8	89.2	47.6	27.7	20.1	18.1	0.0
2.5°	210.9	89.8	47.8	27.8	20.1	18.2	0.0
0°	211.6	90.0	47.9	27.8	20.1	18.2	0.0
-2.5°	210.9	89.8	47.8	27.8	20.1	18.2	0.0
-5°	208.8	89.2	47.6	27.7	20.1	18.1	0.0
-7.5°	205.2	88.2	47.2	27.6	20.1	18.0	0.0
-10°	200.3	86.8	46.7	27.4	20.0	17.9	0.0
-12.5°	193.9	84.9	46.0	27.2	20.0	17.8	0.0
-15°	186.2	82.7	45.1	27.0	20.0	17.6	0.0
-17.5°	177.1	80.1	44.1	26.7	19.9	17.4	0.0
-20°	166.7	77.1	43.0	26.4	19.9	17.1	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	154.9	73.7	41.7	26.0	19.8	16.8	0.0
-25°	141.9	70.0	40.3	25.6	19.7	16.5	0.0
-27.5°	127.6	65.9	38.7	25.2	19.7	16.1	0.0
-30°	112.0	61.4	37.0	24.7	19.6	15.8	0.0
-32.5°	95.3	56.6	35.2	24.2	19.5	15.3	0.0
-35°	85.6	51.5	33.2	23.6	19.4	14.9	0.0
-37.5°	79.0	47.0	31.2	23.0	19.3	14.4	0.0
-40°	72.1	44.2	29.0	22.4	19.2	13.9	0.0
-42.5°	64.8	41.3	27.4	21.7	19.1	13.4	0.0
-45°	57.1	38.3	26.4	21.0	19.0	12.9	0.0
-47.5°	49.1	35.1	25.5	20.3	18.9	12.3	0.0
-50°	44.5	31.8	24.4	20.0	18.7	11.7	0.0
-52.5°	40.4	28.4	23.4	19.8	18.6	11.1	0.0
-55°	36.1	26.7	22.3	19.6	18.5	10.4	0.0
-57.5°	31.8	25.3	21.2	19.4	18.3	9.8	0.0
-60°	27.6	23.8	20.1	19.1	18.2	9.1	0.0
-62.5°	25.8	22.4	19.8	18.9	16.8	8.4	0.0
-65°	24.0	20.9	19.5	18.7	15.4	7.7	0.0
-67.5°	22.2	19.9	19.2	18.5	13.9	7.0	0.0
-70°	20.3	19.5	18.9	18.2	12.4	6.2	0.0
-72.5°	19.7	19.1	18.6	16.4	10.9	5.5	0.0
-75°	19.2	18.7	18.3	14.1	9.4	4.7	0.0
-77.5°	18.7	18.3	15.7	11.8	7.9	3.9	0.0
-80°	18.3	15.7	12.6	9.5	6.3	3.2	0.0
-82.5°	14.1	11.8	9.5	7.1	4.7	2.4	0.0
-85°	9.4	7.9	6.3	4.7	3.2	1.6	0.0
-87.5°	4.7	3.9	3.2	2.4	1.6	0.8	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)