

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: P699931 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200L-57-80-5R-S**

Issue Date: 8/10/2023

Test Information

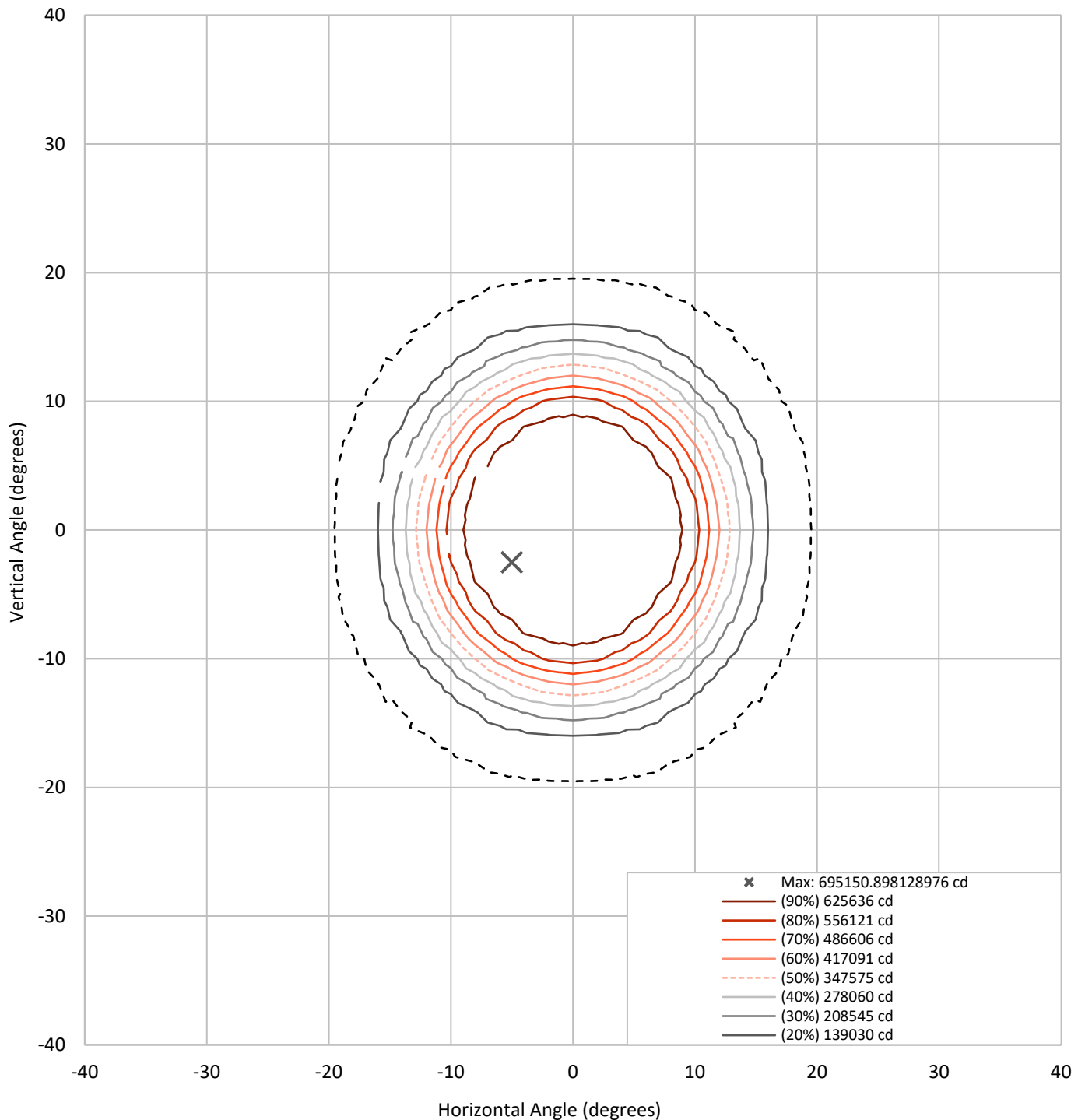
Test Method: LM-79-08
Report Number: P699931 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-51)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200L-57-80-5R-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 5700K, 80 CRI LEDS AND 5R BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	167201.3 lumens	Max Intensity:	695150.9 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x -2.5°V
Efficacy:	133.1 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	25.1°H x 23.6°V	Field Angle (10%):	38.9°H x 38.4°V
Beam Lumens:	89009.9 lumens	Field Lumens:	123969.6 lumens
Beam Efficiency:	53.2%	Field Efficiency:	74.1%
Input Watts (W):	1255.9		
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





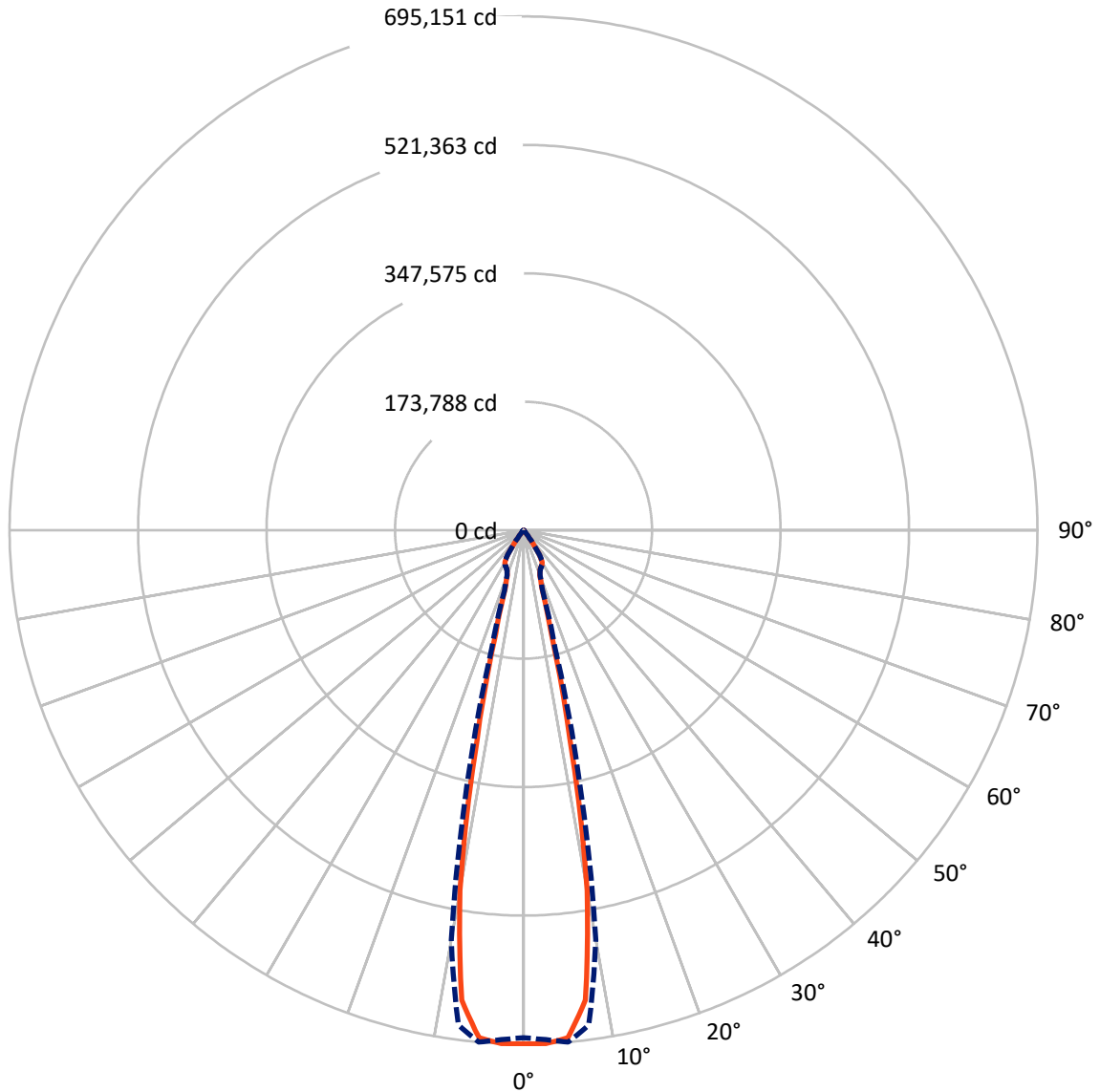
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Lumen Table

90	0.1	0.8	2.2	3.7	4.4	3.7	2.2	0.8	0.1							
80	0.1	0.8	2.2	3.7	4.4	3.7	2.2	0.8	0.1							
70	0.4	0.4	0.9	1.6	2.4	3.1	3.8	4.1	4.1	3.8	3.1	2.4	1.6	0.9	0.4	0.4
60		0.7	1.6	2.7	4.4	7.4	11.3	13.9	13.9	11.3	7.4	4.4	2.7	1.6	0.7	
50	0.7	1.0	2.2	4.8	12.2	22.0	30.3	38.3	38.3	30.3	22.0	12.2	4.8	2.2	1.0	0.7
40		1.3	3.1	10.6	23.7	88.3	418.4	753.9	753.9	418.4	88.3	23.7	10.6	3.1	1.3	
30	1.0	1.5	4.8	17.3	80.7	755.3	1469.2	1691.8	1691.8	1469.2	755.3	80.7	17.3	4.8	1.5	1.0
20		1.7	6.9	22.4	362.3	1380.5	2106.6	5732.0	5732.0	2106.6	1380.5	362.3	22.4	6.9	1.7	
10	1.1	1.8	8.2	27.6	632.4	1541.1	5594.6	18881.8	18881.8	5594.6	1541.1	632.4	27.6	8.2	1.8	1.1
0		1.8	8.2	27.6	632.4	1541.1	5594.6	18881.8	18881.8	5594.6	1541.1	632.4	27.6	8.2	1.8	
-10	1.0	1.7	6.9	22.4	362.3	1380.5	2106.6	5732.0	5732.0	2106.6	1380.5	362.3	22.4	6.9	1.7	1.0
-20		1.5	4.8	17.3	80.7	755.3	1469.2	1691.8	1691.8	1469.2	755.3	80.7	17.3	4.8	1.5	
-30	0.7	1.3	3.1	10.6	23.7	88.3	418.4	753.9	753.9	418.4	88.3	23.7	10.6	3.1	1.3	0.7
-40		1.0	2.2	4.8	12.2	22.0	30.3	38.3	38.3	30.3	22.0	12.2	4.8	2.2	1.0	
-50	0.4	0.7	1.6	2.7	4.4	7.4	11.3	13.9	13.9	11.3	7.4	4.4	2.7	1.6	0.7	0.4
-60		0.4	0.9	1.6	2.4	3.1	3.8	4.1	4.1	3.8	3.1	2.4	1.6	0.9	0.4	
-70	0.1	0.8	2.2	3.7	4.4	3.7	2.2	0.8	0.1							
-80		0.1	0.8	2.2	3.7	4.4	3.7	2.2	0.8	0.1						
-90	0.1	0.8	2.2	3.7	4.4	3.7	2.2	0.8	0.1							

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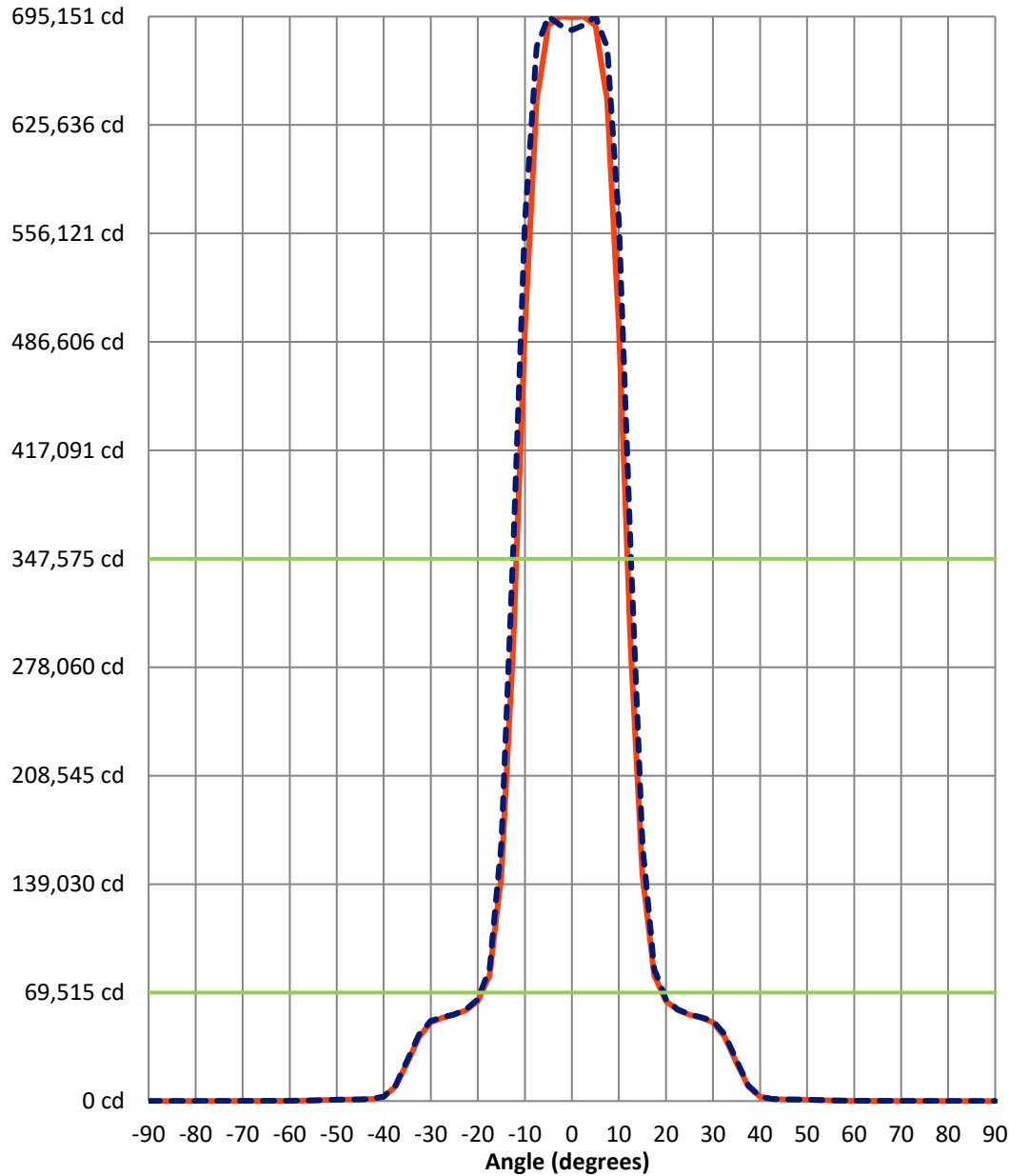
Luminous Intensity Polar Plot



— Vertical Distribution Through -5-Deg - - - Horizontal Distribution Through -2.5-Deg

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Luminous Intensity Plot



Beam:
H Angle: 25.1°
V Angle: 23.6°
Lumens: 89009.9
Efficiency: 53.2%

Field:
H Angle: 38.9°
V Angle: 38.4°
Lumens: 123969.6
Efficiency: 74.1%

Spill:
Lumens: 43231.8
Efficiency: 25.9%

— Vertical Distribution through -5-Deg
- - Horizontal Distribution through -2.5-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	0.2	0.5	0.7	1.0	1.2	1.5	1.7	1.9	2.2	2.4
85°	0.0	0.5	1.0	1.5	2.0	2.5	2.9	3.4	3.9	4.4	4.8
82.5°	0.0	0.7	1.5	2.2	3.0	3.7	4.4	5.1	5.8	6.5	7.2
80°	0.0	1.0	2.0	3.0	3.9	4.9	5.9	6.8	7.8	8.7	9.6
77.5°	0.0	1.2	2.5	3.7	4.9	6.1	7.3	8.5	9.7	10.8	12.2
75°	0.0	1.5	2.9	4.4	5.9	7.3	8.8	10.2	11.7	13.7	15.8
72.5°	0.0	1.7	3.4	5.1	6.8	8.5	10.2	12.0	14.5	16.9	19.2
70°	0.0	1.9	3.9	5.8	7.8	9.7	11.7	14.5	17.2	20.0	23.3
67.5°	0.0	2.2	4.4	6.5	8.7	10.8	13.7	16.9	20.0	23.7	27.4
65°	0.0	2.4	4.8	7.2	9.6	12.2	15.8	19.2	23.3	27.4	31.7
62.5°	0.0	2.6	5.3	7.9	10.5	13.9	17.7	21.9	26.5	31.2	36.5
60°	0.0	2.8	5.7	8.5	11.4	15.5	19.7	24.7	29.7	35.4	41.1
57.5°	0.0	3.1	6.1	9.2	12.6	17.1	22.0	27.4	33.2	39.5	46.1
55°	0.0	3.3	6.5	9.8	13.8	18.6	24.2	30.0	36.8	43.6	51.3
52.5°	0.0	3.5	6.9	10.4	15.0	20.2	26.4	33.0	40.2	48.1	56.3
50°	0.0	3.7	7.3	11.0	16.2	22.0	28.5	35.9	43.7	52.5	63.1
47.5°	0.0	3.9	7.7	11.6	17.3	23.7	30.6	38.8	47.5	56.7	70.0
45°	0.0	4.0	8.1	12.4	18.4	25.3	33.0	41.5	51.1	62.6	76.7
42.5°	0.0	4.2	8.4	13.2	19.4	26.9	35.2	44.4	54.6	68.3	81.8
40°	0.0	4.4	8.7	13.9	20.5	28.4	37.4	47.2	58.4	73.8	86.5
37.5°	0.0	4.5	9.0	14.6	21.6	29.8	39.4	50.0	63.0	78.7	91.1
35°	0.0	4.7	9.3	15.3	22.7	31.3	41.3	52.6	67.4	82.6	95.5
32.5°	0.0	4.8	9.6	15.9	23.7	32.8	43.2	55.0	71.5	86.2	100.0
30°	0.0	4.9	9.9	16.5	24.7	34.3	45.2	57.6	75.3	89.5	104.2
27.5°	0.0	5.1	10.1	17.0	25.6	35.6	47.0	60.7	78.6	92.7	108.1
25°	0.0	5.2	10.3	17.5	26.4	36.8	48.7	63.6	81.2	95.8	111.8
22.5°	0.0	5.3	10.5	17.9	27.1	37.9	50.2	66.2	83.5	98.7	115.6
20°	0.0	5.4	10.7	18.4	27.8	38.8	51.6	68.6	85.6	101.4	119.1
17.5°	0.0	5.4	10.9	18.7	28.4	39.7	52.8	70.7	87.5	103.8	122.2
15°	0.0	5.5	11.0	19.0	28.9	40.5	53.8	72.5	89.1	105.8	124.9
12.5°	0.0	5.6	11.1	19.3	29.3	41.1	54.7	74.0	90.5	107.6	127.1
10°	0.0	5.6	11.2	19.5	29.7	41.7	55.5	75.3	91.7	109.0	129.0
7.5°	0.0	5.7	11.3	19.7	29.9	42.1	56.1	76.3	92.6	110.1	130.5
5°	0.0	5.7	11.4	19.8	30.1	42.4	56.5	77.0	93.2	111.0	131.6
2.5°	0.0	5.7	11.4	19.9	30.3	42.5	56.7	77.5	93.6	111.4	132.2
0°	0.0	5.7	11.4	19.9	30.3	42.6	56.8	77.6	93.7	111.6	132.4
-2.5°	0.0	5.7	11.4	19.9	30.3	42.6	56.8	77.6	93.7	111.6	132.4
-5°	0.0	5.7	11.4	19.8	30.1	42.4	56.5	77.0	93.2	111.0	131.6
-7.5°	0.0	5.7	11.3	19.7	29.9	42.1	56.1	76.3	92.6	110.1	130.5
-10°	0.0	5.6	11.2	19.5	29.7	41.7	55.5	75.3	91.7	109.0	129.0
-12.5°	0.0	5.6	11.1	19.3	29.3	41.1	54.7	74.0	90.5	107.6	127.1
-15°	0.0	5.5	11.0	19.0	28.9	40.5	53.8	72.5	89.1	105.8	124.9
-17.5°	0.0	5.4	10.9	18.7	28.4	39.7	52.8	70.7	87.5	103.8	122.2
-20°	0.0	5.4	10.7	18.4	27.8	38.8	51.6	68.6	85.6	101.4	119.1



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 CATALOG NUMBER: EPH-LS-16-1200L-57-80-5R-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	5.3	10.5	17.9	27.1	37.9	50.2	66.2	83.5	98.7	115.6
-25°	0.0	5.2	10.3	17.5	26.4	36.8	48.7	63.6	81.2	95.8	111.8
-27.5°	0.0	5.1	10.1	17.0	25.6	35.6	47.0	60.7	78.6	92.7	108.1
-30°	0.0	4.9	9.9	16.5	24.7	34.3	45.2	57.6	75.3	89.5	104.2
-32.5°	0.0	4.8	9.6	15.9	23.7	32.8	43.2	55.0	71.5	86.2	100.0
-35°	0.0	4.7	9.3	15.3	22.7	31.3	41.3	52.6	67.4	82.6	95.5
-37.5°	0.0	4.5	9.0	14.6	21.6	29.8	39.4	50.0	63.0	78.7	91.1
-40°	0.0	4.4	8.7	13.9	20.5	28.4	37.4	47.2	58.4	73.8	86.5
-42.5°	0.0	4.2	8.4	13.2	19.4	26.9	35.2	44.4	54.6	68.3	81.8
-45°	0.0	4.0	8.1	12.4	18.4	25.3	33.0	41.5	51.1	62.6	76.7
-47.5°	0.0	3.9	7.7	11.6	17.3	23.7	30.6	38.8	47.5	56.7	70.0
-50°	0.0	3.7	7.3	11.0	16.2	22.0	28.5	35.9	43.7	52.5	63.1
-52.5°	0.0	3.5	6.9	10.4	15.0	20.2	26.4	33.0	40.2	48.1	56.3
-55°	0.0	3.3	6.5	9.8	13.8	18.6	24.2	30.0	36.8	43.6	51.3
-57.5°	0.0	3.1	6.1	9.2	12.6	17.1	22.0	27.4	33.2	39.5	46.1
-60°	0.0	2.8	5.7	8.5	11.4	15.5	19.7	24.7	29.7	35.4	41.1
-62.5°	0.0	2.6	5.3	7.9	10.5	13.9	17.7	21.9	26.5	31.2	36.5
-65°	0.0	2.4	4.8	7.2	9.6	12.2	15.8	19.2	23.3	27.4	31.7
-67.5°	0.0	2.2	4.4	6.5	8.7	10.8	13.7	16.9	20.0	23.7	27.4
-70°	0.0	1.9	3.9	5.8	7.8	9.7	11.7	14.5	17.2	20.0	23.3
-72.5°	0.0	1.7	3.4	5.1	6.8	8.5	10.2	12.0	14.5	16.9	19.2
-75°	0.0	1.5	2.9	4.4	5.9	7.3	8.8	10.2	11.7	13.7	15.8
-77.5°	0.0	1.2	2.5	3.7	4.9	6.1	7.3	8.5	9.7	10.8	12.2
-80°	0.0	1.0	2.0	3.0	3.9	4.9	5.9	6.8	7.8	8.7	9.6
-82.5°	0.0	0.7	1.5	2.2	3.0	3.7	4.4	5.1	5.8	6.5	7.2
-85°	0.0	0.5	1.0	1.5	2.0	2.5	2.9	3.4	3.9	4.4	4.8
-87.5°	0.0	0.2	0.5	0.7	1.0	1.2	1.5	1.7	1.9	2.2	2.4
-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: P699931 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-5R-S

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°	2.6	2.8	3.1	3.3	3.5	3.7	3.9	4.0	4.2	4.4	4.5
85°	5.3	5.7	6.1	6.5	6.9	7.3	7.7	8.1	8.4	8.7	9.0
82.5°	7.9	8.5	9.2	9.8	10.4	11.0	11.6	12.4	13.2	13.9	14.6
80°	10.5	11.4	12.6	13.8	15.0	16.2	17.3	18.4	19.4	20.5	21.6
77.5°	13.9	15.5	17.1	18.6	20.2	22.0	23.7	25.3	26.9	28.4	29.8
75°	17.7	19.7	22.0	24.2	26.4	28.5	30.6	33.0	35.2	37.4	39.4
72.5°	21.9	24.7	27.4	30.0	33.0	35.9	38.8	41.5	44.4	47.2	50.0
70°	26.5	29.7	33.2	36.8	40.2	43.7	47.5	51.1	54.6	58.4	63.0
67.5°	31.2	35.4	39.5	43.6	48.1	52.5	56.7	62.6	68.3	73.8	78.7
65°	36.5	41.1	46.1	51.3	56.3	63.1	70.0	76.7	81.8	86.5	91.1
62.5°	41.7	47.4	53.2	59.8	67.8	75.7	82.0	87.6	93.1	98.8	104.4
60°	47.4	53.8	61.7	70.7	79.0	85.6	92.0	98.7	105.4	111.8	118.8
57.5°	53.2	61.7	71.6	80.5	87.9	95.2	102.9	110.4	118.6	126.6	134.9
55°	59.8	70.7	80.5	88.6	96.8	105.4	114.1	123.5	132.6	144.1	155.1
52.5°	67.8	79.0	87.9	96.8	106.2	116.1	126.4	137.9	150.8	164.2	179.7
50°	75.7	85.6	95.2	105.4	116.1	127.4	140.5	154.8	171.2	188.6	217.6
47.5°	82.0	92.0	102.9	114.1	126.4	140.5	156.1	174.8	194.0	234.2	275.2
45°	87.6	98.7	110.4	123.5	137.9	154.8	174.8	195.8	242.6	295.0	370.3
42.5°	93.1	105.4	118.6	132.6	150.8	171.2	194.0	242.6	302.4	385.2	496.0
40°	98.8	111.8	126.6	144.1	164.2	188.6	234.2	295.0	385.2	508.9	651.4
37.5°	104.4	118.8	134.9	155.1	179.7	217.6	275.2	370.3	496.0	651.4	778.7
35°	109.6	125.6	144.6	167.4	194.5	254.1	340.6	457.8	625.3	767.5	882.4
32.5°	115.1	131.9	153.8	180.4	225.2	296.7	405.0	573.5	734.1	869.3	949.5
30°	120.5	139.6	163.2	192.7	255.6	353.4	497.1	679.3	832.5	929.5	990.5
27.5°	125.6	147.0	173.7	215.0	288.4	406.5	593.2	765.8	896.6	978.6	1017.1
25°	130.2	153.8	183.5	239.3	334.0	480.2	678.8	846.5	946.3	1001.9	1151.6
22.5°	135.2	160.1	192.4	261.6	375.9	556.5	747.9	894.2	981.2	1029.3	1305.4
20°	140.3	167.4	206.5	284.6	413.9	625.8	810.8	933.2	999.6	1160.6	1794.8
17.5°	144.8	174.0	223.0	315.8	466.9	683.1	863.3	968.2	1016.2	1279.0	2401.0
15°	148.8	179.7	237.4	343.0	516.9	728.7	891.7	984.1	1077.0	1495.9	2995.1
12.5°	152.1	184.6	249.8	366.3	559.7	767.8	916.1	995.7	1160.1	1923.4	5161.5
10°	154.9	188.6	259.9	385.5	595.0	800.0	936.2	1005.3	1229.0	2278.7	6965.6
7.5°	157.1	191.7	267.8	400.6	622.6	825.3	952.0	1012.8	1283.2	2558.5	8389.4
5°	158.7	194.0	273.5	411.3	642.5	843.4	963.4	1018.2	1322.3	2760.3	9417.8
2.5°	159.6	195.3	277.0	417.8	654.4	854.3	970.2	1021.5	1345.8	2882.2	10039.5
0°	159.9	195.8	278.1	420.0	658.4	858.0	972.5	1022.6	1353.7	2923.0	10247.6
-2.5°	159.6	195.3	277.0	417.8	654.4	854.3	970.2	1021.5	1345.8	2882.2	10039.5
-5°	158.7	194.0	273.5	411.3	642.5	843.4	963.4	1018.2	1322.3	2760.3	9417.8
-7.5°	157.1	191.7	267.8	400.6	622.6	825.3	952.0	1012.8	1283.2	2558.5	8389.4
-10°	154.9	188.6	259.9	385.5	595.0	800.0	936.2	1005.3	1229.0	2278.7	6965.6
-12.5°	152.1	184.6	249.8	366.3	559.7	767.8	916.1	995.7	1160.1	1923.4	5161.5
-15°	148.8	179.7	237.4	343.0	516.9	728.7	891.7	984.1	1077.0	1495.9	2995.1
-17.5°	144.8	174.0	223.0	315.8	466.9	683.1	863.3	968.2	1016.2	1279.0	2401.0
-20°	140.3	167.4	206.5	284.6	413.9	625.8	810.8	933.2	999.6	1160.6	1794.8



REPORT NUMBER: P699931 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-5R-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	135.2	160.1	192.4	261.6	375.9	556.5	747.9	894.2	981.2	1029.3	1305.4
-25°	130.2	153.8	183.5	239.3	334.0	480.2	678.8	846.5	946.3	1001.9	1151.6
-27.5°	125.6	147.0	173.7	215.0	288.4	406.5	593.2	765.8	896.6	978.6	1017.1
-30°	120.5	139.6	163.2	192.7	255.6	353.4	497.1	679.3	832.5	929.5	990.5
-32.5°	115.1	131.9	153.8	180.4	225.2	296.7	405.0	573.5	734.1	869.3	949.5
-35°	109.6	125.6	144.6	167.4	194.5	254.1	340.6	457.8	625.3	767.5	882.4
-37.5°	104.4	118.8	134.9	155.1	179.7	217.6	275.2	370.3	496.0	651.4	778.7
-40°	98.8	111.8	126.6	144.1	164.2	188.6	234.2	295.0	385.2	508.9	651.4
-42.5°	93.1	105.4	118.6	132.6	150.8	171.2	194.0	242.6	302.4	385.2	496.0
-45°	87.6	98.7	110.4	123.5	137.9	154.8	174.8	195.8	242.6	295.0	370.3
-47.5°	82.0	92.0	102.9	114.1	126.4	140.5	156.1	174.8	194.0	234.2	275.2
-50°	75.7	85.6	95.2	105.4	116.1	127.4	140.5	154.8	171.2	188.6	217.6
-52.5°	67.8	79.0	87.9	96.8	106.2	116.1	126.4	137.9	150.8	164.2	179.7
-55°	59.8	70.7	80.5	88.6	96.8	105.4	114.1	123.5	132.6	144.1	155.1
-57.5°	53.2	61.7	71.6	80.5	87.9	95.2	102.9	110.4	118.6	126.6	134.9
-60°	47.4	53.8	61.7	70.7	79.0	85.6	92.0	98.7	105.4	111.8	118.8
-62.5°	41.7	47.4	53.2	59.8	67.8	75.7	82.0	87.6	93.1	98.8	104.4
-65°	36.5	41.1	46.1	51.3	56.3	63.1	70.0	76.7	81.8	86.5	91.1
-67.5°	31.2	35.4	39.5	43.6	48.1	52.5	56.7	62.6	68.3	73.8	78.7
-70°	26.5	29.7	33.2	36.8	40.2	43.7	47.5	51.1	54.6	58.4	63.0
-72.5°	21.9	24.7	27.4	30.0	33.0	35.9	38.8	41.5	44.4	47.2	50.0
-75°	17.7	19.7	22.0	24.2	26.4	28.5	30.6	33.0	35.2	37.4	39.4
-77.5°	13.9	15.5	17.1	18.6	20.2	22.0	23.7	25.3	26.9	28.4	29.8
-80°	10.5	11.4	12.6	13.8	15.0	16.2	17.3	18.4	19.4	20.5	21.6
-82.5°	7.9	8.5	9.2	9.8	10.4	11.0	11.6	12.4	13.2	13.9	14.6
-85°	5.3	5.7	6.1	6.5	6.9	7.3	7.7	8.1	8.4	8.7	9.0
-87.5°	2.6	2.8	3.1	3.3	3.5	3.7	3.9	4.0	4.2	4.4	4.5
-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: P699931 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-5R-S

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°	4.7	4.8	4.9	5.1	5.2	5.3	5.4	5.4	5.5	5.6	5.6
85°	9.3	9.6	9.9	10.1	10.3	10.5	10.7	10.9	11.0	11.1	11.2
82.5°	15.3	15.9	16.5	17.0	17.5	17.9	18.4	18.7	19.0	19.3	19.5
80°	22.7	23.7	24.7	25.6	26.4	27.1	27.8	28.4	28.9	29.3	29.7
77.5°	31.3	32.8	34.3	35.6	36.8	37.9	38.8	39.7	40.5	41.1	41.7
75°	41.3	43.2	45.2	47.0	48.7	50.2	51.6	52.8	53.8	54.7	55.5
72.5°	52.6	55.0	57.6	60.7	63.6	66.2	68.6	70.7	72.5	74.0	75.3
70°	67.4	71.5	75.3	78.6	81.2	83.5	85.6	87.5	89.1	90.5	91.7
67.5°	82.6	86.2	89.5	92.7	95.8	98.7	101.4	103.8	105.8	107.6	109.0
65°	95.5	100.0	104.2	108.1	111.8	115.6	119.1	122.2	124.9	127.1	129.0
62.5°	109.6	115.1	120.5	125.6	130.2	135.2	140.3	144.8	148.8	152.1	154.9
60°	125.6	131.9	139.6	147.0	153.8	160.1	167.4	174.0	179.7	184.6	188.6
57.5°	144.6	153.8	163.2	173.7	183.5	192.4	206.5	223.0	237.4	249.8	259.9
55°	167.4	180.4	192.7	215.0	239.3	261.6	284.6	315.8	343.0	366.3	385.5
52.5°	194.5	225.2	255.6	288.4	334.0	375.9	413.9	466.9	516.9	559.7	595.0
50°	254.1	296.7	353.4	406.5	480.2	556.5	625.8	683.1	728.7	767.8	800.0
47.5°	340.6	405.0	497.1	593.2	678.8	747.9	810.8	863.3	891.7	916.1	936.2
45°	457.8	573.5	679.3	765.8	846.5	894.2	933.2	968.2	984.1	995.7	1005.3
42.5°	625.3	734.1	832.5	896.6	946.3	981.2	999.6	1016.2	1077.0	1160.1	1229.0
40°	767.5	869.3	929.5	978.6	1001.9	1029.3	1160.6	1279.0	1495.9	1923.4	2278.7
37.5°	882.4	949.5	990.5	1017.1	1151.6	1305.4	1794.8	2401.0	2995.1	5161.5	6965.6
35°	956.2	996.5	1047.3	1234.7	1627.8	2410.0	3894.4	6949.1	9666.2	14216.0	18616.7
32.5°	996.5	1067.8	1276.9	1934.9	2829.6	6399.7	10020.4	17125.3	23719.4	29479.2	34328.8
30°	1047.3	1276.9	2038.2	3480.2	7933.3	14446.7	23165.1	31187.0	38411.0	43988.4	46706.4
27.5°	1234.7	1934.9	3480.2	8449.8	16839.5	26876.2	36341.1	44156.3	48176.6	51703.0	52423.2
25°	1627.8	2829.6	7933.3	16839.5	28140.1	38968.2	46253.1	51072.5	52603.6	53520.1	54281.4
22.5°	2410.0	6399.7	14446.7	26876.2	38968.2	46962.1	51917.3	53154.8	54267.5	55240.3	56321.6
20°	3894.4	10020.4	23165.1	36341.1	46253.1	51917.3	53341.7	54648.4	55935.3	57705.8	59560.3
17.5°	6949.1	17125.3	31187.0	44156.3	51072.5	53154.8	54648.4	56273.7	58423.4	61930.7	65480.5
15°	9666.2	23719.4	38411.0	48176.6	52603.6	54267.5	55935.3	58423.4	62743.7	70381.5	82544.8
12.5°	14216.0	29479.2	43988.4	51703.0	53520.1	55240.3	57705.8	61930.7	70381.5	85499.0	139485.3
10°	18616.7	34328.8	46706.4	52423.2	54281.4	56321.6	59560.3	65480.5	82544.8	139485.3	237347.4
7.5°	22097.5	38175.4	48869.5	52989.2	54887.5	57437.7	62161.7	74025.2	112832.5	205374.9	377170.8
5°	24616.3	40965.0	50442.6	53402.3	55331.8	58260.4	64094.5	80765.9	145156.5	291256.0	494661.3
2.5°	26141.1	42656.3	51398.2	53653.8	55603.2	58765.2	65287.1	84959.5	165508.6	352502.0	562761.4
0°	26651.6	43223.0	51718.7	53738.3	55694.5	58935.4	65690.5	86384.4	172470.9	375048.0	586067.9
-2.5°	26141.1	42656.3	51398.2	53653.8	55603.2	58765.2	65287.1	84959.5	165508.6	352502.0	562761.4
-5°	24616.3	40965.0	50442.6	53402.3	55331.8	58260.4	64094.5	80765.9	145156.5	291256.0	494661.3
-7.5°	22097.5	38175.4	48869.5	52989.2	54887.5	57437.7	62161.7	74025.2	112832.5	205374.9	377170.8
-10°	18616.7	34328.8	46706.4	52423.2	54281.4	56321.6	59560.3	65480.5	82544.8	139485.3	237347.4
-12.5°	14216.0	29479.2	43988.4	51703.0	53520.1	55240.3	57705.8	61930.7	70381.5	85499.0	139485.3
-15°	9666.2	23719.4	38411.0	48176.6	52603.6	54267.5	55935.3	58423.4	62743.7	70381.5	82544.8
-17.5°	6949.1	17125.3	31187.0	44156.3	51072.5	53154.8	54648.4	56273.7	58423.4	61930.7	65480.5
-20°	3894.4	10020.4	23165.1	36341.1	46253.1	51917.3	53341.7	54648.4	55935.3	57705.8	59560.3



REPORT NUMBER: P699931 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-5R-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	2410.0	6399.7	14446.7	26876.2	38968.2	46962.1	51917.3	53154.8	54267.5	55240.3	56321.6
-25°	1627.8	2829.6	7933.3	16839.5	28140.1	38968.2	46253.1	51072.5	52603.6	53520.1	54281.4
-27.5°	1234.7	1934.9	3480.2	8449.8	16839.5	26876.2	36341.1	44156.3	48176.6	51703.0	52423.2
-30°	1047.3	1276.9	2038.2	3480.2	7933.3	14446.7	23165.1	31187.0	38411.0	43988.4	46706.4
-32.5°	996.5	1067.8	1276.9	1934.9	2829.6	6399.7	10020.4	17125.3	23719.4	29479.2	34328.8
-35°	956.2	996.5	1047.3	1234.7	1627.8	2410.0	3894.4	6949.1	9666.2	14216.0	18616.7
-37.5°	882.4	949.5	990.5	1017.1	1151.6	1305.4	1794.8	2401.0	2995.1	5161.5	6965.6
-40°	767.5	869.3	929.5	978.6	1001.9	1029.3	1160.6	1279.0	1495.9	1923.4	2278.7
-42.5°	625.3	734.1	832.5	896.6	946.3	981.2	999.6	1016.2	1077.0	1160.1	1229.0
-45°	457.8	573.5	679.3	765.8	846.5	894.2	933.2	968.2	984.1	995.7	1005.3
-47.5°	340.6	405.0	497.1	593.2	678.8	747.9	810.8	863.3	891.7	916.1	936.2
-50°	254.1	296.7	353.4	406.5	480.2	556.5	625.8	683.1	728.7	767.8	800.0
-52.5°	194.5	225.2	255.6	288.4	334.0	375.9	413.9	466.9	516.9	559.7	595.0
-55°	167.4	180.4	192.7	215.0	239.3	261.6	284.6	315.8	343.0	366.3	385.5
-57.5°	144.6	153.8	163.2	173.7	183.5	192.4	206.5	223.0	237.4	249.8	259.9
-60°	125.6	131.9	139.6	147.0	153.8	160.1	167.4	174.0	179.7	184.6	188.6
-62.5°	109.6	115.1	120.5	125.6	130.2	135.2	140.3	144.8	148.8	152.1	154.9
-65°	95.5	100.0	104.2	108.1	111.8	115.6	119.1	122.2	124.9	127.1	129.0
-67.5°	82.6	86.2	89.5	92.7	95.8	98.7	101.4	103.8	105.8	107.6	109.0
-70°	67.4	71.5	75.3	78.6	81.2	83.5	85.6	87.5	89.1	90.5	91.7
-72.5°	52.6	55.0	57.6	60.7	63.6	66.2	68.6	70.7	72.5	74.0	75.3
-75°	41.3	43.2	45.2	47.0	48.7	50.2	51.6	52.8	53.8	54.7	55.5
-77.5°	31.3	32.8	34.3	35.6	36.8	37.9	38.8	39.7	40.5	41.1	41.7
-80°	22.7	23.7	24.7	25.6	26.4	27.1	27.8	28.4	28.9	29.3	29.7
-82.5°	15.3	15.9	16.5	17.0	17.5	17.9	18.4	18.7	19.0	19.3	19.5
-85°	9.3	9.6	9.9	10.1	10.3	10.5	10.7	10.9	11.0	11.1	11.2
-87.5°	4.7	4.8	4.9	5.1	5.2	5.3	5.4	5.4	5.5	5.6	5.6
-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: P699931 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-5R-S

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°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.6	5.6	5.5	5.4
85°	11.3	11.4	11.4	11.4	11.4	11.4	11.3	11.2	11.1	11.0	10.9
82.5°	19.7	19.8	19.9	19.9	19.9	19.8	19.7	19.5	19.3	19.0	18.7
80°	29.9	30.1	30.3	30.3	30.3	30.1	29.9	29.7	29.3	28.9	28.4
77.5°	42.1	42.4	42.5	42.6	42.5	42.4	42.1	41.7	41.1	40.5	39.7
75°	56.1	56.5	56.7	56.8	56.7	56.5	56.1	55.5	54.7	53.8	52.8
72.5°	76.3	77.0	77.5	77.6	77.5	77.0	76.3	75.3	74.0	72.5	70.7
70°	92.6	93.2	93.6	93.7	93.6	93.2	92.6	91.7	90.5	89.1	87.5
67.5°	110.1	111.0	111.4	111.6	111.4	111.0	110.1	109.0	107.6	105.8	103.8
65°	130.5	131.6	132.2	132.4	132.2	131.6	130.5	129.0	127.1	124.9	122.2
62.5°	157.1	158.7	159.6	159.9	159.6	158.7	157.1	154.9	152.1	148.8	144.8
60°	191.7	194.0	195.3	195.8	195.3	194.0	191.7	188.6	184.6	179.7	174.0
57.5°	267.8	273.5	277.0	278.1	277.0	273.5	267.8	259.9	249.8	237.4	223.0
55°	400.6	411.3	417.8	420.0	417.8	411.3	400.6	385.5	366.3	343.0	315.8
52.5°	622.6	642.5	654.4	658.4	654.4	642.5	622.6	595.0	559.7	516.9	466.9
50°	825.3	843.4	854.3	858.0	854.3	843.4	825.3	800.0	767.8	728.7	683.1
47.5°	952.0	963.4	970.2	972.5	970.2	963.4	952.0	936.2	916.1	891.7	863.3
45°	1012.8	1018.2	1021.5	1022.6	1021.5	1018.2	1012.8	1005.3	995.7	984.1	968.2
42.5°	1283.2	1322.3	1345.8	1353.7	1345.8	1322.3	1283.2	1229.0	1160.1	1077.0	1016.2
40°	2558.5	2760.3	2882.2	2923.0	2882.2	2760.3	2558.5	2278.7	1923.4	1495.9	1279.0
37.5°	8389.4	9417.8	10039.5	10247.6	10039.5	9417.8	8389.4	6965.6	5161.5	2995.1	2401.0
35°	22097.5	24616.3	26141.1	26651.6	26141.1	24616.3	22097.5	18616.7	14216.0	9666.2	6949.1
32.5°	38175.4	40965.0	42656.3	43223.0	42656.3	40965.0	38175.4	34328.8	29479.2	23719.4	17125.3
30°	48869.5	50442.6	51398.2	51718.7	51398.2	50442.6	48869.5	46706.4	43988.4	38411.0	31187.0
27.5°	52989.2	53402.3	53653.8	53738.3	53653.8	53402.3	52989.2	52423.2	51703.0	48176.6	44156.3
25°	54887.5	55331.8	55603.2	55694.5	55603.2	55331.8	54887.5	54281.4	53520.1	52603.6	51072.5
22.5°	57437.7	58260.4	58765.2	58935.4	58765.2	58260.4	57437.7	56321.6	55240.3	54267.5	53154.8
20°	62161.7	64094.5	65287.1	65690.5	65287.1	64094.5	62161.7	59560.3	57705.8	55935.3	54648.4
17.5°	74025.2	80765.9	84959.5	86384.4	84959.5	80765.9	74025.2	65480.5	61930.7	58423.4	56273.7
15°	112832.5	145156.5	165508.6	172470.9	165508.6	145156.5	112832.5	82544.8	70381.5	62743.7	58423.4
12.5°	205374.9	291256.0	352502.0	375048.0	352502.0	291256.0	205374.9	139485.3	85499.0	70381.5	61930.7
10°	377170.8	494661.3	562761.4	586067.9	562761.4	494661.3	377170.8	237347.4	139485.3	82544.8	65480.5
7.5°	540827.7	641102.4	675204.9	682092.6	675204.9	641102.4	540827.7	377170.8	205374.9	112832.5	74025.2
5°	641102.4	689492.4	695150.9	694776.1	695150.9	689492.4	641102.4	494661.3	291256.0	145156.5	80765.9
2.5°	675204.9	695150.9	689670.1	686492.3	689670.1	695150.9	675204.9	562761.4	352502.0	165508.6	84959.5
0°	682092.6	694776.1	686492.3	684199.3	686492.3	694776.1	682092.6	586067.9	375048.0	172470.9	86384.4
-2.5°	675204.9	695150.9	689670.1	686492.3	689670.1	695150.9	675204.9	562761.4	352502.0	165508.6	84959.5
-5°	641102.4	689492.4	695150.9	694776.1	695150.9	689492.4	641102.4	494661.3	291256.0	145156.5	80765.9
-7.5°	540827.7	641102.4	675204.9	682092.6	675204.9	641102.4	540827.7	377170.8	205374.9	112832.5	74025.2
-10°	377170.8	494661.3	562761.4	586067.9	562761.4	494661.3	377170.8	237347.4	139485.3	82544.8	65480.5
-12.5°	205374.9	291256.0	352502.0	375048.0	352502.0	291256.0	205374.9	139485.3	85499.0	70381.5	61930.7
-15°	112832.5	145156.5	165508.6	172470.9	165508.6	145156.5	112832.5	82544.8	70381.5	62743.7	58423.4
-17.5°	74025.2	80765.9	84959.5	86384.4	84959.5	80765.9	74025.2	65480.5	61930.7	58423.4	56273.7
-20°	62161.7	64094.5	65287.1	65690.5	65287.1	64094.5	62161.7	59560.3	57705.8	55935.3	54648.4



REPORT NUMBER: P699931 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-5R-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	57437.7	58260.4	58765.2	58935.4	58765.2	58260.4	57437.7	56321.6	55240.3	54267.5	53154.8
-25°	54887.5	55331.8	55603.2	55694.5	55603.2	55331.8	54887.5	54281.4	53520.1	52603.6	51072.5
-27.5°	52989.2	53402.3	53653.8	53738.3	53653.8	53402.3	52989.2	52423.2	51703.0	48176.6	44156.3
-30°	48869.5	50442.6	51398.2	51718.7	51398.2	50442.6	48869.5	46706.4	43988.4	38411.0	31187.0
-32.5°	38175.4	40965.0	42656.3	43223.0	42656.3	40965.0	38175.4	34328.8	29479.2	23719.4	17125.3
-35°	22097.5	24616.3	26141.1	26651.6	26141.1	24616.3	22097.5	18616.7	14216.0	9666.2	6949.1
-37.5°	8389.4	9417.8	10039.5	10247.6	10039.5	9417.8	8389.4	6965.6	5161.5	2995.1	2401.0
-40°	2558.5	2760.3	2882.2	2923.0	2882.2	2760.3	2558.5	2278.7	1923.4	1495.9	1279.0
-42.5°	1283.2	1322.3	1345.8	1353.7	1345.8	1322.3	1283.2	1229.0	1160.1	1077.0	1016.2
-45°	1012.8	1018.2	1021.5	1022.6	1021.5	1018.2	1012.8	1005.3	995.7	984.1	968.2
-47.5°	952.0	963.4	970.2	972.5	970.2	963.4	952.0	936.2	916.1	891.7	863.3
-50°	825.3	843.4	854.3	858.0	854.3	843.4	825.3	800.0	767.8	728.7	683.1
-52.5°	622.6	642.5	654.4	658.4	654.4	642.5	622.6	595.0	559.7	516.9	466.9
-55°	400.6	411.3	417.8	420.0	417.8	411.3	400.6	385.5	366.3	343.0	315.8
-57.5°	267.8	273.5	277.0	278.1	277.0	273.5	267.8	259.9	249.8	237.4	223.0
-60°	191.7	194.0	195.3	195.8	195.3	194.0	191.7	188.6	184.6	179.7	174.0
-62.5°	157.1	158.7	159.6	159.9	159.6	158.7	157.1	154.9	152.1	148.8	144.8
-65°	130.5	131.6	132.2	132.4	132.2	131.6	130.5	129.0	127.1	124.9	122.2
-67.5°	110.1	111.0	111.4	111.6	111.4	111.0	110.1	109.0	107.6	105.8	103.8
-70°	92.6	93.2	93.6	93.7	93.6	93.2	92.6	91.7	90.5	89.1	87.5
-72.5°	76.3	77.0	77.5	77.6	77.5	77.0	76.3	75.3	74.0	72.5	70.7
-75°	56.1	56.5	56.7	56.8	56.7	56.5	56.1	55.5	54.7	53.8	52.8
-77.5°	42.1	42.4	42.5	42.6	42.5	42.4	42.1	41.7	41.1	40.5	39.7
-80°	29.9	30.1	30.3	30.3	30.3	30.1	29.9	29.7	29.3	28.9	28.4
-82.5°	19.7	19.8	19.9	19.9	19.9	19.8	19.7	19.5	19.3	19.0	18.7
-85°	11.3	11.4	11.4	11.4	11.4	11.4	11.3	11.2	11.1	11.0	10.9
-87.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.6	5.6	5.5	5.4
-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: P699931 (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°	5.4	5.3	5.2	5.1	4.9	4.8	4.7	4.5	4.4	4.2	4.0
85°	10.7	10.5	10.3	10.1	9.9	9.6	9.3	9.0	8.7	8.4	8.1
82.5°	18.4	17.9	17.5	17.0	16.5	15.9	15.3	14.6	13.9	13.2	12.4
80°	27.8	27.1	26.4	25.6	24.7	23.7	22.7	21.6	20.5	19.4	18.4
77.5°	38.8	37.9	36.8	35.6	34.3	32.8	31.3	29.8	28.4	26.9	25.3
75°	51.6	50.2	48.7	47.0	45.2	43.2	41.3	39.4	37.4	35.2	33.0
72.5°	68.6	66.2	63.6	60.7	57.6	55.0	52.6	50.0	47.2	44.4	41.5
70°	85.6	83.5	81.2	78.6	75.3	71.5	67.4	63.0	58.4	54.6	51.1
67.5°	101.4	98.7	95.8	92.7	89.5	86.2	82.6	78.7	73.8	68.3	62.6
65°	119.1	115.6	111.8	108.1	104.2	100.0	95.5	91.1	86.5	81.8	76.7
62.5°	140.3	135.2	130.2	125.6	120.5	115.1	109.6	104.4	98.8	93.1	87.6
60°	167.4	160.1	153.8	147.0	139.6	131.9	125.6	118.8	111.8	105.4	98.7
57.5°	206.5	192.4	183.5	173.7	163.2	153.8	144.6	134.9	126.6	118.6	110.4
55°	284.6	261.6	239.3	215.0	192.7	180.4	167.4	155.1	144.1	132.6	123.5
52.5°	413.9	375.9	334.0	288.4	255.6	225.2	194.5	179.7	164.2	150.8	137.9
50°	625.8	556.5	480.2	406.5	353.4	296.7	254.1	217.6	188.6	171.2	154.8
47.5°	810.8	747.9	678.8	593.2	497.1	405.0	340.6	275.2	234.2	194.0	174.8
45°	933.2	894.2	846.5	765.8	679.3	573.5	457.8	370.3	295.0	242.6	195.8
42.5°	999.6	981.2	946.3	896.6	832.5	734.1	625.3	496.0	385.2	302.4	242.6
40°	1160.6	1029.3	1001.9	978.6	929.5	869.3	767.5	651.4	508.9	385.2	295.0
37.5°	1794.8	1305.4	1151.6	1017.1	990.5	949.5	882.4	778.7	651.4	496.0	370.3
35°	3894.4	2410.0	1627.8	1234.7	1047.3	996.5	956.2	882.4	767.5	625.3	457.8
32.5°	10020.4	6399.7	2829.6	1934.9	1276.9	1067.8	996.5	949.5	869.3	734.1	573.5
30°	23165.1	14446.7	7933.3	3480.2	2038.2	1276.9	1047.3	990.5	929.5	832.5	679.3
27.5°	36341.1	26876.2	16839.5	8449.8	3480.2	1934.9	1234.7	1017.1	978.6	896.6	765.8
25°	46253.1	38968.2	28140.1	16839.5	7933.3	2829.6	1627.8	1151.6	1001.9	946.3	846.5
22.5°	51917.3	46962.1	38968.2	26876.2	14446.7	6399.7	2410.0	1305.4	1029.3	981.2	894.2
20°	53341.7	51917.3	46253.1	36341.1	23165.1	10020.4	3894.4	1794.8	1160.6	999.6	933.2
17.5°	54648.4	53154.8	51072.5	44156.3	31187.0	17125.3	6949.1	2401.0	1279.0	1016.2	968.2
15°	55935.3	54267.5	52603.6	48176.6	38411.0	23719.4	9666.2	2995.1	1495.9	1077.0	984.1
12.5°	57705.8	55240.3	53520.1	51703.0	43988.4	29479.2	14216.0	5161.5	1923.4	1160.1	995.7
10°	59560.3	56321.6	54281.4	52423.2	46706.4	34328.8	18616.7	6965.6	2278.7	1229.0	1005.3
7.5°	62161.7	57437.7	54887.5	52989.2	48869.5	38175.4	22097.5	8389.4	2558.5	1283.2	1012.8
5°	64094.5	58260.4	55331.8	53402.3	50442.6	40965.0	24616.3	9417.8	2760.3	1322.3	1018.2
2.5°	65287.1	58765.2	55603.2	53653.8	51398.2	42656.3	26141.1	10039.5	2882.2	1345.8	1021.5
0°	65690.5	58935.4	55694.5	53738.3	51718.7	43223.0	26651.6	10247.6	2923.0	1353.7	1022.6
-2.5°	65287.1	58765.2	55603.2	53653.8	51398.2	42656.3	26141.1	10039.5	2882.2	1345.8	1021.5
-5°	64094.5	58260.4	55331.8	53402.3	50442.6	40965.0	24616.3	9417.8	2760.3	1322.3	1018.2
-7.5°	62161.7	57437.7	54887.5	52989.2	48869.5	38175.4	22097.5	8389.4	2558.5	1283.2	1012.8
-10°	59560.3	56321.6	54281.4	52423.2	46706.4	34328.8	18616.7	6965.6	2278.7	1229.0	1005.3
-12.5°	57705.8	55240.3	53520.1	51703.0	43988.4	29479.2	14216.0	5161.5	1923.4	1160.1	995.7
-15°	55935.3	54267.5	52603.6	48176.6	38411.0	23719.4	9666.2	2995.1	1495.9	1077.0	984.1
-17.5°	54648.4	53154.8	51072.5	44156.3	31187.0	17125.3	6949.1	2401.0	1279.0	1016.2	968.2
-20°	53341.7	51917.3	46253.1	36341.1	23165.1	10020.4	3894.4	1794.8	1160.6	999.6	933.2



REPORT NUMBER: P699931 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-5R-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	51917.3	46962.1	38968.2	26876.2	14446.7	6399.7	2410.0	1305.4	1029.3	981.2	894.2
-25°	46253.1	38968.2	28140.1	16839.5	7933.3	2829.6	1627.8	1151.6	1001.9	946.3	846.5
-27.5°	36341.1	26876.2	16839.5	8449.8	3480.2	1934.9	1234.7	1017.1	978.6	896.6	765.8
-30°	23165.1	14446.7	7933.3	3480.2	2038.2	1276.9	1047.3	990.5	929.5	832.5	679.3
-32.5°	10020.4	6399.7	2829.6	1934.9	1276.9	1067.8	996.5	949.5	869.3	734.1	573.5
-35°	3894.4	2410.0	1627.8	1234.7	1047.3	996.5	956.2	882.4	767.5	625.3	457.8
-37.5°	1794.8	1305.4	1151.6	1017.1	990.5	949.5	882.4	778.7	651.4	496.0	370.3
-40°	1160.6	1029.3	1001.9	978.6	929.5	869.3	767.5	651.4	508.9	385.2	295.0
-42.5°	999.6	981.2	946.3	896.6	832.5	734.1	625.3	496.0	385.2	302.4	242.6
-45°	933.2	894.2	846.5	765.8	679.3	573.5	457.8	370.3	295.0	242.6	195.8
-47.5°	810.8	747.9	678.8	593.2	497.1	405.0	340.6	275.2	234.2	194.0	174.8
-50°	625.8	556.5	480.2	406.5	353.4	296.7	254.1	217.6	188.6	171.2	154.8
-52.5°	413.9	375.9	334.0	288.4	255.6	225.2	194.5	179.7	164.2	150.8	137.9
-55°	284.6	261.6	239.3	215.0	192.7	180.4	167.4	155.1	144.1	132.6	123.5
-57.5°	206.5	192.4	183.5	173.7	163.2	153.8	144.6	134.9	126.6	118.6	110.4
-60°	167.4	160.1	153.8	147.0	139.6	131.9	125.6	118.8	111.8	105.4	98.7
-62.5°	140.3	135.2	130.2	125.6	120.5	115.1	109.6	104.4	98.8	93.1	87.6
-65°	119.1	115.6	111.8	108.1	104.2	100.0	95.5	91.1	86.5	81.8	76.7
-67.5°	101.4	98.7	95.8	92.7	89.5	86.2	82.6	78.7	73.8	68.3	62.6
-70°	85.6	83.5	81.2	78.6	75.3	71.5	67.4	63.0	58.4	54.6	51.1
-72.5°	68.6	66.2	63.6	60.7	57.6	55.0	52.6	50.0	47.2	44.4	41.5
-75°	51.6	50.2	48.7	47.0	45.2	43.2	41.3	39.4	37.4	35.2	33.0
-77.5°	38.8	37.9	36.8	35.6	34.3	32.8	31.3	29.8	28.4	26.9	25.3
-80°	27.8	27.1	26.4	25.6	24.7	23.7	22.7	21.6	20.5	19.4	18.4
-82.5°	18.4	17.9	17.5	17.0	16.5	15.9	15.3	14.6	13.9	13.2	12.4
-85°	10.7	10.5	10.3	10.1	9.9	9.6	9.3	9.0	8.7	8.4	8.1
-87.5°	5.4	5.3	5.2	5.1	4.9	4.8	4.7	4.5	4.4	4.2	4.0
-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: P699931 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-5R-S

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°	3.9	3.7	3.5	3.3	3.1	2.8	2.6	2.4	2.2	1.9	1.7
85°	7.7	7.3	6.9	6.5	6.1	5.7	5.3	4.8	4.4	3.9	3.4
82.5°	11.6	11.0	10.4	9.8	9.2	8.5	7.9	7.2	6.5	5.8	5.1
80°	17.3	16.2	15.0	13.8	12.6	11.4	10.5	9.6	8.7	7.8	6.8
77.5°	23.7	22.0	20.2	18.6	17.1	15.5	13.9	12.2	10.8	9.7	8.5
75°	30.6	28.5	26.4	24.2	22.0	19.7	17.7	15.8	13.7	11.7	10.2
72.5°	38.8	35.9	33.0	30.0	27.4	24.7	21.9	19.2	16.9	14.5	12.0
70°	47.5	43.7	40.2	36.8	33.2	29.7	26.5	23.3	20.0	17.2	14.5
67.5°	56.7	52.5	48.1	43.6	39.5	35.4	31.2	27.4	23.7	20.0	16.9
65°	70.0	63.1	56.3	51.3	46.1	41.1	36.5	31.7	27.4	23.3	19.2
62.5°	82.0	75.7	67.8	59.8	53.2	47.4	41.7	36.5	31.2	26.5	21.9
60°	92.0	85.6	79.0	70.7	61.7	53.8	47.4	41.1	35.4	29.7	24.7
57.5°	102.9	95.2	87.9	80.5	71.6	61.7	53.2	46.1	39.5	33.2	27.4
55°	114.1	105.4	96.8	88.6	80.5	70.7	59.8	51.3	43.6	36.8	30.0
52.5°	126.4	116.1	106.2	96.8	87.9	79.0	67.8	56.3	48.1	40.2	33.0
50°	140.5	127.4	116.1	105.4	95.2	85.6	75.7	63.1	52.5	43.7	35.9
47.5°	156.1	140.5	126.4	114.1	102.9	92.0	82.0	70.0	56.7	47.5	38.8
45°	174.8	154.8	137.9	123.5	110.4	98.7	87.6	76.7	62.6	51.1	41.5
42.5°	194.0	171.2	150.8	132.6	118.6	105.4	93.1	81.8	68.3	54.6	44.4
40°	234.2	188.6	164.2	144.1	126.6	111.8	98.8	86.5	73.8	58.4	47.2
37.5°	275.2	217.6	179.7	155.1	134.9	118.8	104.4	91.1	78.7	63.0	50.0
35°	340.6	254.1	194.5	167.4	144.6	125.6	109.6	95.5	82.6	67.4	52.6
32.5°	405.0	296.7	225.2	180.4	153.8	131.9	115.1	100.0	86.2	71.5	55.0
30°	497.1	353.4	255.6	192.7	163.2	139.6	120.5	104.2	89.5	75.3	57.6
27.5°	593.2	406.5	288.4	215.0	173.7	147.0	125.6	108.1	92.7	78.6	60.7
25°	678.8	480.2	334.0	239.3	183.5	153.8	130.2	111.8	95.8	81.2	63.6
22.5°	747.9	556.5	375.9	261.6	192.4	160.1	135.2	115.6	98.7	83.5	66.2
20°	810.8	625.8	413.9	284.6	206.5	167.4	140.3	119.1	101.4	85.6	68.6
17.5°	863.3	683.1	466.9	315.8	223.0	174.0	144.8	122.2	103.8	87.5	70.7
15°	891.7	728.7	516.9	343.0	237.4	179.7	148.8	124.9	105.8	89.1	72.5
12.5°	916.1	767.8	559.7	366.3	249.8	184.6	152.1	127.1	107.6	90.5	74.0
10°	936.2	800.0	595.0	385.5	259.9	188.6	154.9	129.0	109.0	91.7	75.3
7.5°	952.0	825.3	622.6	400.6	267.8	191.7	157.1	130.5	110.1	92.6	76.3
5°	963.4	843.4	642.5	411.3	273.5	194.0	158.7	131.6	111.0	93.2	77.0
2.5°	970.2	854.3	654.4	417.8	277.0	195.3	159.6	132.2	111.4	93.6	77.5
0°	972.5	858.0	658.4	420.0	278.1	195.8	159.9	132.4	111.6	93.7	77.6
-2.5°	970.2	854.3	654.4	417.8	277.0	195.3	159.6	132.2	111.4	93.6	77.5
-5°	963.4	843.4	642.5	411.3	273.5	194.0	158.7	131.6	111.0	93.2	77.0
-7.5°	952.0	825.3	622.6	400.6	267.8	191.7	157.1	130.5	110.1	92.6	76.3
-10°	936.2	800.0	595.0	385.5	259.9	188.6	154.9	129.0	109.0	91.7	75.3
-12.5°	916.1	767.8	559.7	366.3	249.8	184.6	152.1	127.1	107.6	90.5	74.0
-15°	891.7	728.7	516.9	343.0	237.4	179.7	148.8	124.9	105.8	89.1	72.5
-17.5°	863.3	683.1	466.9	315.8	223.0	174.0	144.8	122.2	103.8	87.5	70.7
-20°	810.8	625.8	413.9	284.6	206.5	167.4	140.3	119.1	101.4	85.6	68.6



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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°	747.9	556.5	375.9	261.6	192.4	160.1	135.2	115.6	98.7	83.5	66.2
-25°	678.8	480.2	334.0	239.3	183.5	153.8	130.2	111.8	95.8	81.2	63.6
-27.5°	593.2	406.5	288.4	215.0	173.7	147.0	125.6	108.1	92.7	78.6	60.7
-30°	497.1	353.4	255.6	192.7	163.2	139.6	120.5	104.2	89.5	75.3	57.6
-32.5°	405.0	296.7	225.2	180.4	153.8	131.9	115.1	100.0	86.2	71.5	55.0
-35°	340.6	254.1	194.5	167.4	144.6	125.6	109.6	95.5	82.6	67.4	52.6
-37.5°	275.2	217.6	179.7	155.1	134.9	118.8	104.4	91.1	78.7	63.0	50.0
-40°	234.2	188.6	164.2	144.1	126.6	111.8	98.8	86.5	73.8	58.4	47.2
-42.5°	194.0	171.2	150.8	132.6	118.6	105.4	93.1	81.8	68.3	54.6	44.4
-45°	174.8	154.8	137.9	123.5	110.4	98.7	87.6	76.7	62.6	51.1	41.5
-47.5°	156.1	140.5	126.4	114.1	102.9	92.0	82.0	70.0	56.7	47.5	38.8
-50°	140.5	127.4	116.1	105.4	95.2	85.6	75.7	63.1	52.5	43.7	35.9
-52.5°	126.4	116.1	106.2	96.8	87.9	79.0	67.8	56.3	48.1	40.2	33.0
-55°	114.1	105.4	96.8	88.6	80.5	70.7	59.8	51.3	43.6	36.8	30.0
-57.5°	102.9	95.2	87.9	80.5	71.6	61.7	53.2	46.1	39.5	33.2	27.4
-60°	92.0	85.6	79.0	70.7	61.7	53.8	47.4	41.1	35.4	29.7	24.7
-62.5°	82.0	75.7	67.8	59.8	53.2	47.4	41.7	36.5	31.2	26.5	21.9
-65°	70.0	63.1	56.3	51.3	46.1	41.1	36.5	31.7	27.4	23.3	19.2
-67.5°	56.7	52.5	48.1	43.6	39.5	35.4	31.2	27.4	23.7	20.0	16.9
-70°	47.5	43.7	40.2	36.8	33.2	29.7	26.5	23.3	20.0	17.2	14.5
-72.5°	38.8	35.9	33.0	30.0	27.4	24.7	21.9	19.2	16.9	14.5	12.0
-75°	30.6	28.5	26.4	24.2	22.0	19.7	17.7	15.8	13.7	11.7	10.2
-77.5°	23.7	22.0	20.2	18.6	17.1	15.5	13.9	12.2	10.8	9.7	8.5
-80°	17.3	16.2	15.0	13.8	12.6	11.4	10.5	9.6	8.7	7.8	6.8
-82.5°	11.6	11.0	10.4	9.8	9.2	8.5	7.9	7.2	6.5	5.8	5.1
-85°	7.7	7.3	6.9	6.5	6.1	5.7	5.3	4.8	4.4	3.9	3.4
-87.5°	3.9	3.7	3.5	3.3	3.1	2.8	2.6	2.4	2.2	1.9	1.7
-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):

	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°	1.5	1.2	1.0	0.7	0.5	0.2	0.0
85°	2.9	2.5	2.0	1.5	1.0	0.5	0.0
82.5°	4.4	3.7	3.0	2.2	1.5	0.7	0.0
80°	5.9	4.9	3.9	3.0	2.0	1.0	0.0
77.5°	7.3	6.1	4.9	3.7	2.5	1.2	0.0
75°	8.8	7.3	5.9	4.4	2.9	1.5	0.0
72.5°	10.2	8.5	6.8	5.1	3.4	1.7	0.0
70°	11.7	9.7	7.8	5.8	3.9	1.9	0.0
67.5°	13.7	10.8	8.7	6.5	4.4	2.2	0.0
65°	15.8	12.2	9.6	7.2	4.8	2.4	0.0
62.5°	17.7	13.9	10.5	7.9	5.3	2.6	0.0
60°	19.7	15.5	11.4	8.5	5.7	2.8	0.0
57.5°	22.0	17.1	12.6	9.2	6.1	3.1	0.0
55°	24.2	18.6	13.8	9.8	6.5	3.3	0.0
52.5°	26.4	20.2	15.0	10.4	6.9	3.5	0.0
50°	28.5	22.0	16.2	11.0	7.3	3.7	0.0
47.5°	30.6	23.7	17.3	11.6	7.7	3.9	0.0
45°	33.0	25.3	18.4	12.4	8.1	4.0	0.0
42.5°	35.2	26.9	19.4	13.2	8.4	4.2	0.0
40°	37.4	28.4	20.5	13.9	8.7	4.4	0.0
37.5°	39.4	29.8	21.6	14.6	9.0	4.5	0.0
35°	41.3	31.3	22.7	15.3	9.3	4.7	0.0
32.5°	43.2	32.8	23.7	15.9	9.6	4.8	0.0
30°	45.2	34.3	24.7	16.5	9.9	4.9	0.0
27.5°	47.0	35.6	25.6	17.0	10.1	5.1	0.0
25°	48.7	36.8	26.4	17.5	10.3	5.2	0.0
22.5°	50.2	37.9	27.1	17.9	10.5	5.3	0.0
20°	51.6	38.8	27.8	18.4	10.7	5.4	0.0
17.5°	52.8	39.7	28.4	18.7	10.9	5.4	0.0
15°	53.8	40.5	28.9	19.0	11.0	5.5	0.0
12.5°	54.7	41.1	29.3	19.3	11.1	5.6	0.0
10°	55.5	41.7	29.7	19.5	11.2	5.6	0.0
7.5°	56.1	42.1	29.9	19.7	11.3	5.7	0.0
5°	56.5	42.4	30.1	19.8	11.4	5.7	0.0
2.5°	56.7	42.5	30.3	19.9	11.4	5.7	0.0
0°	56.8	42.6	30.3	19.9	11.4	5.7	0.0
-2.5°	56.7	42.5	30.3	19.9	11.4	5.7	0.0
-5°	56.5	42.4	30.1	19.8	11.4	5.7	0.0
-7.5°	56.1	42.1	29.9	19.7	11.3	5.7	0.0
-10°	55.5	41.7	29.7	19.5	11.2	5.6	0.0
-12.5°	54.7	41.1	29.3	19.3	11.1	5.6	0.0
-15°	53.8	40.5	28.9	19.0	11.0	5.5	0.0
-17.5°	52.8	39.7	28.4	18.7	10.9	5.4	0.0
-20°	51.6	38.8	27.8	18.4	10.7	5.4	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	50.2	37.9	27.1	17.9	10.5	5.3	0.0
-25°	48.7	36.8	26.4	17.5	10.3	5.2	0.0
-27.5°	47.0	35.6	25.6	17.0	10.1	5.1	0.0
-30°	45.2	34.3	24.7	16.5	9.9	4.9	0.0
-32.5°	43.2	32.8	23.7	15.9	9.6	4.8	0.0
-35°	41.3	31.3	22.7	15.3	9.3	4.7	0.0
-37.5°	39.4	29.8	21.6	14.6	9.0	4.5	0.0
-40°	37.4	28.4	20.5	13.9	8.7	4.4	0.0
-42.5°	35.2	26.9	19.4	13.2	8.4	4.2	0.0
-45°	33.0	25.3	18.4	12.4	8.1	4.0	0.0
-47.5°	30.6	23.7	17.3	11.6	7.7	3.9	0.0
-50°	28.5	22.0	16.2	11.0	7.3	3.7	0.0
-52.5°	26.4	20.2	15.0	10.4	6.9	3.5	0.0
-55°	24.2	18.6	13.8	9.8	6.5	3.3	0.0
-57.5°	22.0	17.1	12.6	9.2	6.1	3.1	0.0
-60°	19.7	15.5	11.4	8.5	5.7	2.8	0.0
-62.5°	17.7	13.9	10.5	7.9	5.3	2.6	0.0
-65°	15.8	12.2	9.6	7.2	4.8	2.4	0.0
-67.5°	13.7	10.8	8.7	6.5	4.4	2.2	0.0
-70°	11.7	9.7	7.8	5.8	3.9	1.9	0.0
-72.5°	10.2	8.5	6.8	5.1	3.4	1.7	0.0
-75°	8.8	7.3	5.9	4.4	2.9	1.5	0.0
-77.5°	7.3	6.1	4.9	3.7	2.5	1.2	0.0
-80°	5.9	4.9	3.9	3.0	2.0	1.0	0.0
-82.5°	4.4	3.7	3.0	2.2	1.5	0.7	0.0
-85°	2.9	2.5	2.0	1.5	1.0	0.5	0.0
-87.5°	1.5	1.2	1.0	0.7	0.5	0.2	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)