

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: P699866 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200L-40-70-5R-S**

Issue Date: 8/10/2023

Test Information

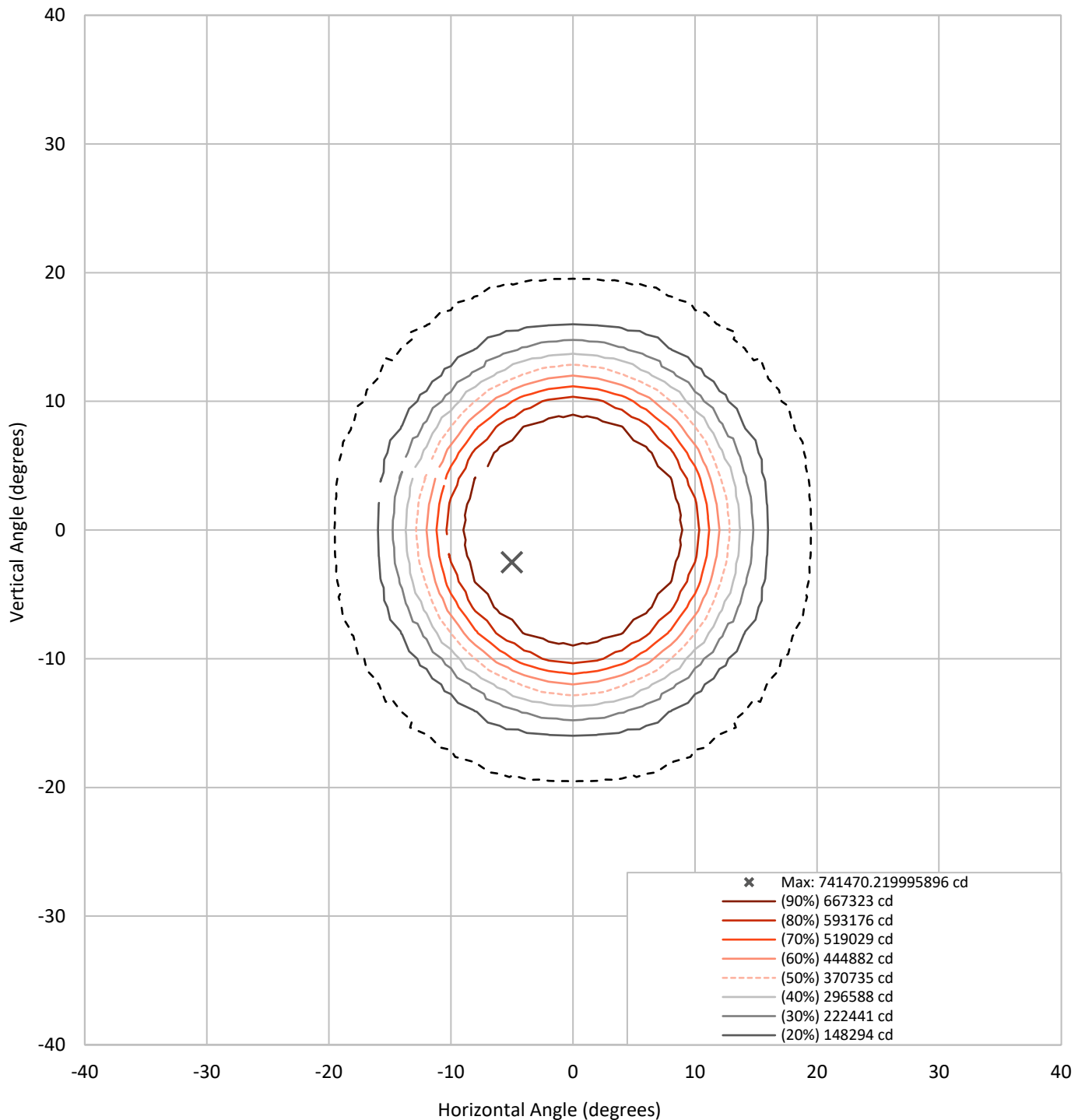
Test Method: LM-79-08
Report Number: P699866 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-51)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200L-40-70-5R-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 4000K, 70 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:	178342.2 lumens	Max Intensity:	741470.2 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x -2.5°V
Efficacy:	142.0 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:	94940.8 lumens	Field Lumens:	132229.9 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





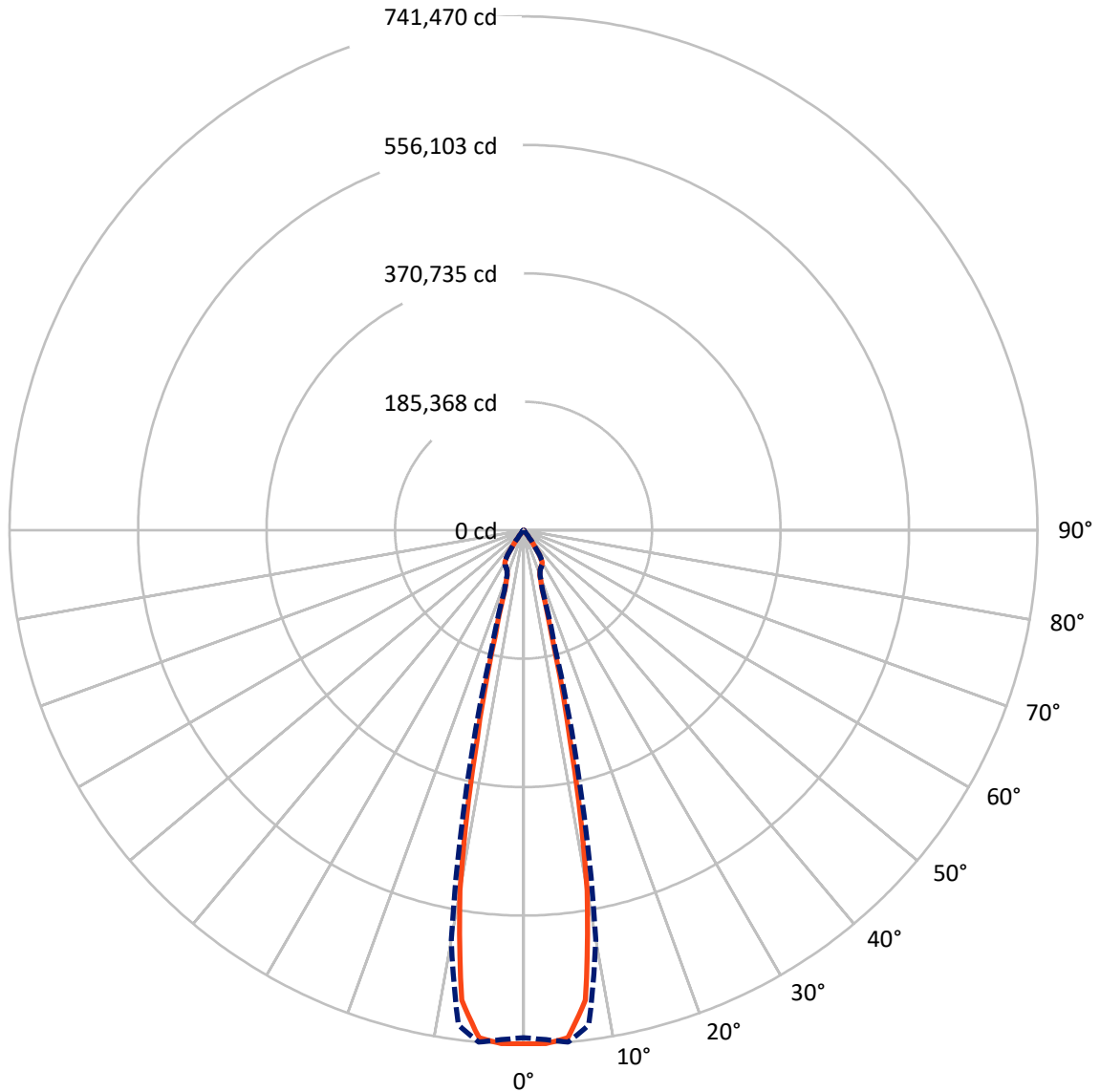
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Lumen Table

90	0.1	0.9	2.4	4.0	4.7	4.0	2.4	0.9	0.1										
80	0.1	0.9	2.4	4.0	4.7	4.0	2.4	0.9	0.1										
70	0.4	0.4	1.0	1.7	2.6	3.3	4.0	4.4	4.4	4.0	3.3	2.6	1.7	1.0	0.4	0.4			
60		0.7	1.7	2.9	4.7	7.9	12.1	14.8	14.8	12.1	7.9	4.7	2.9	1.7	0.7				
50	0.7	1.1	2.4	5.1	13.0	23.4	32.3	40.9	40.9	32.3	23.4	13.0	5.1	2.4	1.1	0.7			
40		1.3	3.3	11.3	25.3	94.2	446.3	804.1	804.1	446.3	94.2	25.3	11.3	3.3	1.3				
30	1.0	1.6	5.1	18.4	86.1	805.6	1567.1	1804.5	1804.5	1567.1	805.6	86.1	18.4	5.1	1.6	1.0			
20		1.8	7.4	23.9	386.4	1472.4	2246.9	6114.0	6114.0	2246.9	1472.4	386.4	23.9	7.4	1.8				
10	1.1	1.9	8.8	29.4	674.5	1643.8	5967.3	20140.0	20140.0	5967.3	1643.8	674.5	29.4	8.8	1.9	1.1			
0		1.9	8.8	29.4	674.5	1643.8	5967.3	20140.0	20140.0	5967.3	1643.8	674.5	29.4	8.8	1.9				
-10	1.0	1.8	7.4	23.9	386.4	1472.4	2246.9	6114.0	6114.0	2246.9	1472.4	386.4	23.9	7.4	1.8	1.0			
-20		1.6	5.1	18.4	86.1	805.6	1567.1	1804.5	1804.5	1567.1	805.6	86.1	18.4	5.1	1.6				
-30	0.7	1.3	3.3	11.3	25.3	94.2	446.3	804.1	804.1	446.3	94.2	25.3	11.3	3.3	1.3	0.7			
-40		1.1	2.4	5.1	13.0	23.4	32.3	40.9	40.9	32.3	23.4	13.0	5.1	2.4	1.1				
-50	0.4	0.7	1.7	2.9	4.7	7.9	12.1	14.8	14.8	12.1	7.9	4.7	2.9	1.7	0.7	0.4			
-60		0.4	1.0	1.7	2.6	3.3	4.0	4.4	4.4	4.0	3.3	2.6	1.7	1.0	0.4				
-70	0.1	0.9	2.4	4.0	4.7	4.0	2.4	0.9	0.1						0.1				
-80		0.1	0.9	2.4	4.0	4.7	4.0	2.4	0.9	0.1									
-90	0.1	0.9	2.4	4.0	4.7	4.0	2.4	0.9	0.1										

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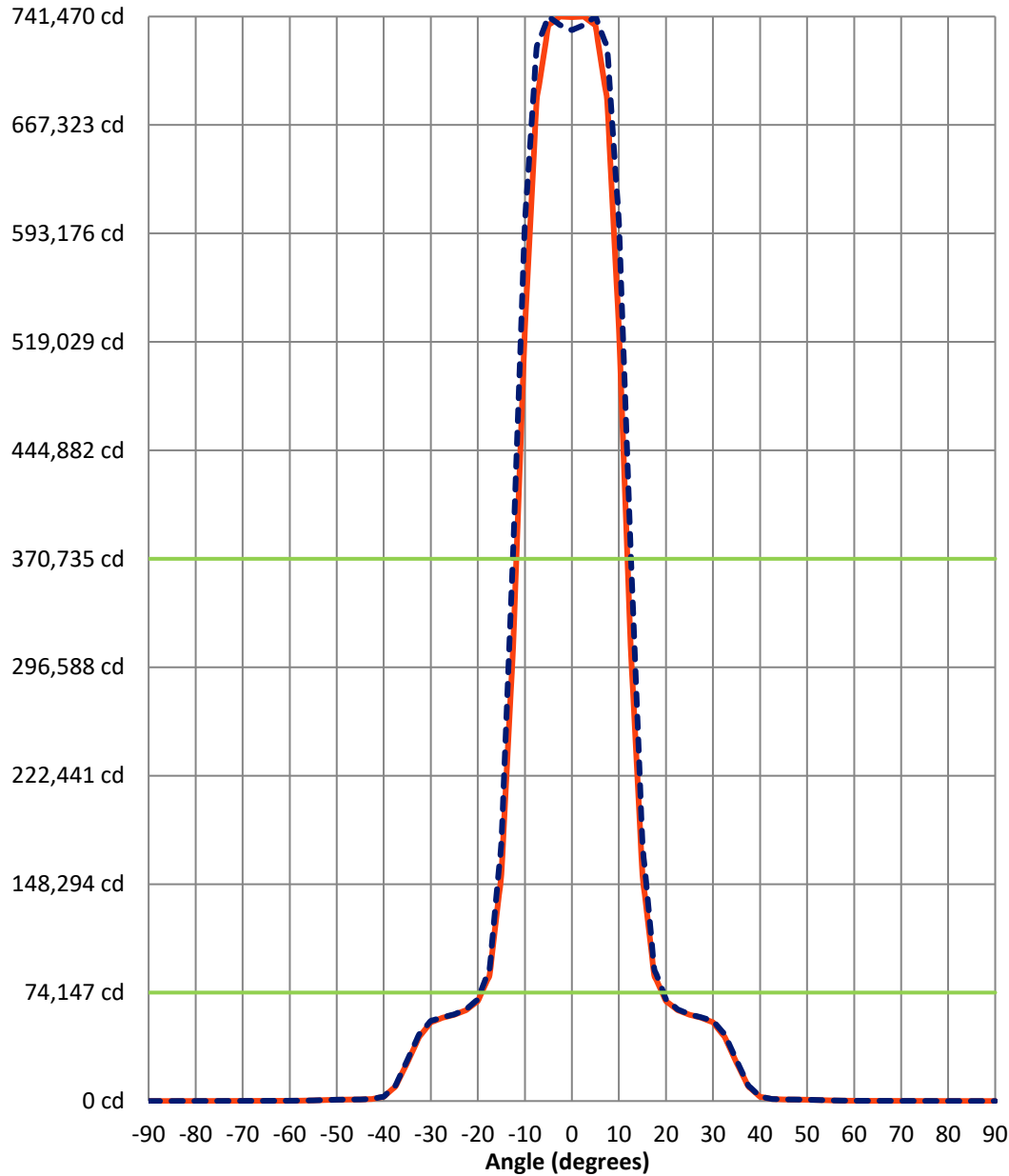
Luminous Intensity Polar Plot



— 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: 94940.8
 Efficiency: 53.2%

Field:
 H Angle: 38.9°
 V Angle: 38.4°
 Lumens: 132229.9
 Efficiency: 74.1%

Spill:
 Lumens: 46112.3
 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	0.3	0.5	0.8	1.1	1.3	1.6	1.8	2.1	2.3	2.6
85°	0.0	0.5	1.1	1.6	2.1	2.6	3.2	3.7	4.2	4.7	5.2
82.5°	0.0	0.8	1.6	2.4	3.2	4.0	4.7	5.5	6.2	7.0	7.7
80°	0.0	1.1	2.1	3.2	4.2	5.3	6.3	7.3	8.3	9.2	10.2
77.5°	0.0	1.3	2.6	4.0	5.3	6.5	7.8	9.1	10.3	11.5	13.0
75°	0.0	1.6	3.2	4.7	6.3	7.8	9.3	10.8	12.4	14.6	16.8
72.5°	0.0	1.8	3.7	5.5	7.3	9.1	10.8	12.8	15.4	18.0	20.5
70°	0.0	2.1	4.2	6.2	8.3	10.3	12.4	15.4	18.4	21.3	24.8
67.5°	0.0	2.3	4.7	7.0	9.2	11.5	14.6	18.0	21.3	25.3	29.2
65°	0.0	2.6	5.2	7.7	10.2	13.0	16.8	20.5	24.8	29.2	33.8
62.5°	0.0	2.8	5.6	8.4	11.1	14.8	18.9	23.3	28.2	33.2	38.9
60°	0.0	3.0	6.1	9.1	12.1	16.5	21.0	26.3	31.6	37.7	43.8
57.5°	0.0	3.3	6.5	9.8	13.4	18.2	23.4	29.2	35.4	42.1	49.2
55°	0.0	3.5	7.0	10.4	14.7	19.9	25.8	32.0	39.2	46.5	54.6
52.5°	0.0	3.7	7.4	11.0	16.0	21.5	28.1	35.2	42.9	51.3	59.9
50°	0.0	3.9	7.8	11.7	17.2	23.4	30.4	38.3	46.6	55.9	67.3
47.5°	0.0	4.1	8.2	12.3	18.4	25.2	32.7	41.3	50.6	60.4	74.6
45°	0.0	4.3	8.6	13.2	19.6	27.0	35.2	44.2	54.4	66.7	81.7
42.5°	0.0	4.5	8.9	14.0	20.7	28.7	37.5	47.3	58.1	72.8	87.2
40°	0.0	4.7	9.3	14.8	21.8	30.3	39.8	50.3	62.2	78.7	92.3
37.5°	0.0	4.8	9.6	15.5	23.1	31.8	42.0	53.3	67.1	83.9	97.1
35°	0.0	5.0	9.9	16.2	24.2	33.4	44.0	56.0	71.8	88.0	101.9
32.5°	0.0	5.1	10.2	16.9	25.3	35.0	46.1	58.6	76.2	91.8	106.7
30°	0.0	5.3	10.5	17.5	26.3	36.5	48.1	61.3	80.3	95.5	111.2
27.5°	0.0	5.4	10.7	18.1	27.2	37.9	50.1	64.7	83.8	98.8	115.4
25°	0.0	5.5	11.0	18.6	28.1	39.2	51.8	67.7	86.5	102.2	119.3
22.5°	0.0	5.6	11.2	19.1	28.9	40.3	53.5	70.5	89.0	105.3	123.4
20°	0.0	5.7	11.4	19.5	29.6	41.4	54.9	73.1	91.3	108.2	127.1
17.5°	0.0	5.8	11.5	19.9	30.2	42.3	56.2	75.3	93.3	110.7	130.4
15°	0.0	5.9	11.7	20.3	30.8	43.1	57.3	77.2	95.0	112.9	133.2
12.5°	0.0	6.0	11.8	20.5	31.2	43.8	58.3	78.9	96.5	114.8	135.7
10°	0.0	6.0	11.9	20.8	31.6	44.4	59.1	80.3	97.7	116.3	137.7
7.5°	0.0	6.0	12.0	21.0	31.9	44.8	59.7	81.3	98.7	117.5	139.3
5°	0.0	6.1	12.1	21.1	32.1	45.1	60.1	82.1	99.4	118.4	140.4
2.5°	0.0	6.1	12.1	21.2	32.3	45.3	60.4	82.5	99.8	118.9	141.1
0°	0.0	6.1	12.1	21.2	32.3	45.4	60.5	82.7	99.9	119.1	141.3
-2.5°	0.0	6.1	12.1	21.2	32.3	45.4	60.5	82.7	99.9	119.1	141.3
-5°	0.0	6.1	12.1	21.1	32.1	45.1	60.1	82.1	99.4	118.4	140.4
-7.5°	0.0	6.0	12.0	21.0	31.9	44.8	59.7	81.3	98.7	117.5	139.3
-10°	0.0	6.0	11.9	20.8	31.6	44.4	59.1	80.3	97.7	116.3	137.7
-12.5°	0.0	6.0	11.8	20.5	31.2	43.8	58.3	78.9	96.5	114.8	135.7
-15°	0.0	5.9	11.7	20.3	30.8	43.1	57.3	77.2	95.0	112.9	133.2
-17.5°	0.0	5.8	11.5	19.9	30.2	42.3	56.2	75.3	93.3	110.7	130.4
-20°	0.0	5.7	11.4	19.5	29.6	41.4	54.9	73.1	91.3	108.2	127.1



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 CATALOG NUMBER: EPH-LS-16-1200L-40-70-5R-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	5.6	11.2	19.1	28.9	40.3	53.5	70.5	89.0	105.3	123.4
-25°	0.0	5.5	11.0	18.6	28.1	39.2	51.8	67.7	86.5	102.2	119.3
-27.5°	0.0	5.4	10.7	18.1	27.2	37.9	50.1	64.7	83.8	98.8	115.4
-30°	0.0	5.3	10.5	17.5	26.3	36.5	48.1	61.3	80.3	95.5	111.2
-32.5°	0.0	5.1	10.2	16.9	25.3	35.0	46.1	58.6	76.2	91.8	106.7
-35°	0.0	5.0	9.9	16.2	24.2	33.4	44.0	56.0	71.8	88.0	101.9
-37.5°	0.0	4.8	9.6	15.5	23.1	31.8	42.0	53.3	67.1	83.9	97.1
-40°	0.0	4.7	9.3	14.8	21.8	30.3	39.8	50.3	62.2	78.7	92.3
-42.5°	0.0	4.5	8.9	14.0	20.7	28.7	37.5	47.3	58.1	72.8	87.2
-45°	0.0	4.3	8.6	13.2	19.6	27.0	35.2	44.2	54.4	66.7	81.7
-47.5°	0.0	4.1	8.2	12.3	18.4	25.2	32.7	41.3	50.6	60.4	74.6
-50°	0.0	3.9	7.8	11.7	17.2	23.4	30.4	38.3	46.6	55.9	67.3
-52.5°	0.0	3.7	7.4	11.0	16.0	21.5	28.1	35.2	42.9	51.3	59.9
-55°	0.0	3.5	7.0	10.4	14.7	19.9	25.8	32.0	39.2	46.5	54.6
-57.5°	0.0	3.3	6.5	9.8	13.4	18.2	23.4	29.2	35.4	42.1	49.2
-60°	0.0	3.0	6.1	9.1	12.1	16.5	21.0	26.3	31.6	37.7	43.8
-62.5°	0.0	2.8	5.6	8.4	11.1	14.8	18.9	23.3	28.2	33.2	38.9
-65°	0.0	2.6	5.2	7.7	10.2	13.0	16.8	20.5	24.8	29.2	33.8
-67.5°	0.0	2.3	4.7	7.0	9.2	11.5	14.6	18.0	21.3	25.3	29.2
-70°	0.0	2.1	4.2	6.2	8.3	10.3	12.4	15.4	18.4	21.3	24.8
-72.5°	0.0	1.8	3.7	5.5	7.3	9.1	10.8	12.8	15.4	18.0	20.5
-75°	0.0	1.6	3.2	4.7	6.3	7.8	9.3	10.8	12.4	14.6	16.8
-77.5°	0.0	1.3	2.6	4.0	5.3	6.5	7.8	9.1	10.3	11.5	13.0
-80°	0.0	1.1	2.1	3.2	4.2	5.3	6.3	7.3	8.3	9.2	10.2
-82.5°	0.0	0.8	1.6	2.4	3.2	4.0	4.7	5.5	6.2	7.0	7.7
-85°	0.0	0.5	1.1	1.6	2.1	2.6	3.2	3.7	4.2	4.7	5.2
-87.5°	0.0	0.3	0.5	0.8	1.1	1.3	1.6	1.8	2.1	2.3	2.6
-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: P699866 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-5R-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°	2.8	3.0	3.3	3.5	3.7	3.9	4.1	4.3	4.5	4.7	4.8
85°	5.6	6.1	6.5	7.0	7.4	7.8	8.2	8.6	8.9	9.3	9.6
82.5°	8.4	9.1	9.8	10.4	11.0	11.7	12.3	13.2	14.0	14.8	15.5
80°	11.1	12.1	13.4	14.7	16.0	17.2	18.4	19.6	20.7	21.8	23.1
77.5°	14.8	16.5	18.2	19.9	21.5	23.4	25.2	27.0	28.7	30.3	31.8
75°	18.9	21.0	23.4	25.8	28.1	30.4	32.7	35.2	37.5	39.8	42.0
72.5°	23.3	26.3	29.2	32.0	35.2	38.3	41.3	44.2	47.3	50.3	53.3
70°	28.2	31.6	35.4	39.2	42.9	46.6	50.6	54.4	58.1	62.2	67.1
67.5°	33.2	37.7	42.1	46.5	51.3	55.9	60.4	66.7	72.8	78.7	83.9
65°	38.9	43.8	49.2	54.6	59.9	67.3	74.6	81.7	87.2	92.3	97.1
62.5°	44.4	50.5	56.7	63.7	72.3	80.6	87.4	93.4	99.2	105.4	111.3
60°	50.5	57.3	65.7	75.3	84.2	91.3	98.1	105.3	112.4	119.3	126.8
57.5°	56.7	65.7	76.3	85.8	93.7	101.5	109.8	117.8	126.5	135.1	144.0
55°	63.7	75.3	85.8	94.4	103.3	112.5	121.8	131.8	141.5	153.7	165.5
52.5°	72.3	84.2	93.7	103.3	113.4	123.9	134.9	147.1	160.8	175.1	191.7
50°	80.6	91.3	101.5	112.5	123.9	136.0	149.9	165.1	182.6	201.2	232.1
47.5°	87.4	98.1	109.8	121.8	134.9	149.9	166.5	186.4	207.0	249.8	293.5
45°	93.4	105.3	117.8	131.8	147.1	165.1	186.4	208.9	258.8	314.6	394.9
42.5°	99.2	112.4	126.5	141.5	160.8	182.6	207.0	258.8	322.5	410.9	529.1
40°	105.4	119.3	135.1	153.7	175.1	201.2	249.8	314.6	410.9	542.8	694.8
37.5°	111.3	126.8	144.0	165.5	191.7	232.1	293.5	394.9	529.1	694.8	830.6
35°	117.0	134.0	154.3	178.6	207.5	271.1	363.3	488.3	667.0	818.7	941.2
32.5°	122.8	140.8	164.0	192.5	240.2	316.5	432.0	611.8	783.1	927.2	1012.7
30°	128.6	149.0	174.0	205.6	272.6	376.9	530.2	724.5	888.0	991.4	1056.4
27.5°	134.0	156.8	185.3	229.3	307.6	433.5	632.8	816.8	956.3	1043.7	1084.8
25°	139.0	164.0	195.7	255.3	356.3	512.2	724.1	902.9	1009.3	1068.6	1228.3
22.5°	144.2	170.7	205.2	279.1	401.0	593.6	797.8	953.7	1046.5	1097.9	1392.4
20°	149.7	178.6	220.3	303.5	441.5	667.6	864.8	995.3	1066.2	1237.9	1914.4
17.5°	154.5	185.6	237.9	336.8	498.0	728.7	920.8	1032.6	1083.9	1364.2	2561.0
15°	158.7	191.7	253.3	365.9	551.4	777.3	951.1	1049.6	1148.7	1595.5	3194.7
12.5°	162.3	196.9	266.4	390.7	597.0	818.9	977.1	1062.0	1237.4	2051.6	5505.5
10°	165.2	201.2	277.2	411.2	634.7	853.3	998.5	1072.2	1310.9	2430.5	7429.7
7.5°	167.5	204.6	285.7	427.3	664.1	880.3	1015.4	1080.3	1368.7	2729.0	8948.4
5°	169.2	207.0	291.7	438.8	685.3	899.6	1027.5	1086.0	1410.4	2944.3	10045.3
2.5°	170.2	208.4	295.4	445.7	698.0	911.3	1034.8	1089.5	1435.5	3074.3	10708.5
0°	170.5	208.9	296.6	448.0	702.3	915.2	1037.2	1090.7	1443.9	3117.8	10930.4
-2.5°	170.2	208.4	295.4	445.7	698.0	911.3	1034.8	1089.5	1435.5	3074.3	10708.5
-5°	169.2	207.0	291.7	438.8	685.3	899.6	1027.5	1086.0	1410.4	2944.3	10045.3
-7.5°	167.5	204.6	285.7	427.3	664.1	880.3	1015.4	1080.3	1368.7	2729.0	8948.4
-10°	165.2	201.2	277.2	411.2	634.7	853.3	998.5	1072.2	1310.9	2430.5	7429.7
-12.5°	162.3	196.9	266.4	390.7	597.0	818.9	977.1	1062.0	1237.4	2051.6	5505.5
-15°	158.7	191.7	253.3	365.9	551.4	777.3	951.1	1049.6	1148.7	1595.5	3194.7
-17.5°	154.5	185.6	237.9	336.8	498.0	728.7	920.8	1032.6	1083.9	1364.2	2561.0
-20°	149.7	178.6	220.3	303.5	441.5	667.6	864.8	995.3	1066.2	1237.9	1914.4



REPORT NUMBER: P699866 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-5R-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	144.2	170.7	205.2	279.1	401.0	593.6	797.8	953.7	1046.5	1097.9	1392.4
-25°	139.0	164.0	195.7	255.3	356.3	512.2	724.1	902.9	1009.3	1068.6	1228.3
-27.5°	134.0	156.8	185.3	229.3	307.6	433.5	632.8	816.8	956.3	1043.7	1084.8
-30°	128.6	149.0	174.0	205.6	272.6	376.9	530.2	724.5	888.0	991.4	1056.4
-32.5°	122.8	140.8	164.0	192.5	240.2	316.5	432.0	611.8	783.1	927.2	1012.7
-35°	117.0	134.0	154.3	178.6	207.5	271.1	363.3	488.3	667.0	818.7	941.2
-37.5°	111.3	126.8	144.0	165.5	191.7	232.1	293.5	394.9	529.1	694.8	830.6
-40°	105.4	119.3	135.1	153.7	175.1	201.2	249.8	314.6	410.9	542.8	694.8
-42.5°	99.2	112.4	126.5	141.5	160.8	182.6	207.0	258.8	322.5	410.9	529.1
-45°	93.4	105.3	117.8	131.8	147.1	165.1	186.4	208.9	258.8	314.6	394.9
-47.5°	87.4	98.1	109.8	121.8	134.9	149.9	166.5	186.4	207.0	249.8	293.5
-50°	80.6	91.3	101.5	112.5	123.9	136.0	149.9	165.1	182.6	201.2	232.1
-52.5°	72.3	84.2	93.7	103.3	113.4	123.9	134.9	147.1	160.8	175.1	191.7
-55°	63.7	75.3	85.8	94.4	103.3	112.5	121.8	131.8	141.5	153.7	165.5
-57.5°	56.7	65.7	76.3	85.8	93.7	101.5	109.8	117.8	126.5	135.1	144.0
-60°	50.5	57.3	65.7	75.3	84.2	91.3	98.1	105.3	112.4	119.3	126.8
-62.5°	44.4	50.5	56.7	63.7	72.3	80.6	87.4	93.4	99.2	105.4	111.3
-65°	38.9	43.8	49.2	54.6	59.9	67.3	74.6	81.7	87.2	92.3	97.1
-67.5°	33.2	37.7	42.1	46.5	51.3	55.9	60.4	66.7	72.8	78.7	83.9
-70°	28.2	31.6	35.4	39.2	42.9	46.6	50.6	54.4	58.1	62.2	67.1
-72.5°	23.3	26.3	29.2	32.0	35.2	38.3	41.3	44.2	47.3	50.3	53.3
-75°	18.9	21.0	23.4	25.8	28.1	30.4	32.7	35.2	37.5	39.8	42.0
-77.5°	14.8	16.5	18.2	19.9	21.5	23.4	25.2	27.0	28.7	30.3	31.8
-80°	11.1	12.1	13.4	14.7	16.0	17.2	18.4	19.6	20.7	21.8	23.1
-82.5°	8.4	9.1	9.8	10.4	11.0	11.7	12.3	13.2	14.0	14.8	15.5
-85°	5.6	6.1	6.5	7.0	7.4	7.8	8.2	8.6	8.9	9.3	9.6
-87.5°	2.8	3.0	3.3	3.5	3.7	3.9	4.1	4.3	4.5	4.7	4.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699866 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-5R-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°	5.0	5.1	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.0
85°	9.9	10.2	10.5	10.7	11.0	11.2	11.4	11.5	11.7	11.8	11.9
82.5°	16.2	16.9	17.5	18.1	18.6	19.1	19.5	19.9	20.3	20.5	20.8
80°	24.2	25.3	26.3	27.2	28.1	28.9	29.6	30.2	30.8	31.2	31.6
77.5°	33.4	35.0	36.5	37.9	39.2	40.3	41.4	42.3	43.1	43.8	44.4
75°	44.0	46.1	48.1	50.1	51.8	53.5	54.9	56.2	57.3	58.3	59.1
72.5°	56.0	58.6	61.3	64.7	67.7	70.5	73.1	75.3	77.2	78.9	80.3
70°	71.8	76.2	80.3	83.8	86.5	89.0	91.3	93.3	95.0	96.5	97.7
67.5°	88.0	91.8	95.5	98.8	102.2	105.3	108.2	110.7	112.9	114.8	116.3
65°	101.9	106.7	111.2	115.4	119.3	123.4	127.1	130.4	133.2	135.7	137.7
62.5°	117.0	122.8	128.6	134.0	139.0	144.2	149.7	154.5	158.7	162.3	165.2
60°	134.0	140.8	149.0	156.8	164.0	170.7	178.6	185.6	191.7	196.9	201.2
57.5°	154.3	164.0	174.0	185.3	195.7	205.2	220.3	237.9	253.3	266.4	277.2
55°	178.6	192.5	205.6	229.3	255.3	279.1	303.5	336.8	365.9	390.7	411.2
52.5°	207.5	240.2	272.6	307.6	356.3	401.0	441.5	498.0	551.4	597.0	634.7
50°	271.1	316.5	376.9	433.5	512.2	593.6	667.6	728.7	777.3	818.9	853.3
47.5°	363.3	432.0	530.2	632.8	724.1	797.8	864.8	920.8	951.1	977.1	998.5
45°	488.3	611.8	724.5	816.8	902.9	953.7	995.3	1032.6	1049.6	1062.0	1072.2
42.5°	667.0	783.1	888.0	956.3	1009.3	1046.5	1066.2	1083.9	1148.7	1237.4	1310.9
40°	818.7	927.2	991.4	1043.7	1068.6	1097.9	1237.9	1364.2	1595.5	2051.6	2430.5
37.5°	941.2	1012.7	1056.4	1084.8	1228.3	1392.4	1914.4	2561.0	3194.7	5505.5	7429.7
35°	1019.9	1062.9	1117.1	1317.0	1736.2	2570.6	4153.9	7412.2	10310.2	15163.2	19857.1
32.5°	1062.9	1139.0	1361.9	2063.8	3018.2	6826.2	10688.1	18266.4	25299.8	31443.4	36616.2
30°	1117.1	1361.9	2174.0	3712.2	8461.9	15409.3	24708.6	33265.0	40970.4	46919.4	49818.5
27.5°	1317.0	2063.8	3712.2	9012.8	17961.5	28667.0	38762.6	47098.5	51386.7	55148.1	55916.3
25°	1736.2	3018.2	8461.9	17961.5	30015.1	41564.7	49335.1	54475.5	56108.7	57086.3	57898.3
22.5°	2570.6	6826.2	15409.3	28667.0	41564.7	50091.2	55376.6	56696.6	57883.5	58921.1	60074.5
20°	4153.9	10688.1	24708.6	38762.6	49335.1	55376.6	56896.0	58289.8	59662.5	61550.9	63528.9
17.5°	7412.2	18266.4	33265.0	47098.5	54475.5	56696.6	58289.8	60023.4	62316.3	66057.2	69843.6
15°	10310.2	25299.8	40970.4	51386.7	56108.7	57883.5	59662.5	62316.3	66924.5	75071.2	88044.9
12.5°	15163.2	31443.4	46919.4	55148.1	57086.3	58921.1	61550.9	66057.2	75071.2	91196.0	148779.5
10°	19857.1	36616.2	49818.5	55916.3	57898.3	60074.5	63528.9	69843.6	88044.9	148779.5	253162.4
7.5°	23569.9	40719.0	52125.8	56520.0	58544.8	61264.9	66303.7	78957.6	120350.8	219059.5	402302.5
5°	26256.5	43694.5	53803.7	56960.6	59018.7	62142.5	68365.2	86147.5	154828.6	310663.0	527621.7
2.5°	27882.9	45498.5	54822.9	57228.9	59308.2	62680.9	69637.3	90620.6	176536.8	375989.9	600259.3
0°	28427.4	46103.0	55164.8	57319.0	59405.6	62862.4	70067.6	92140.4	183963.0	400038.3	625118.8
-2.5°	27882.9	45498.5	54822.9	57228.9	59308.2	62680.9	69637.3	90620.6	176536.8	375989.9	600259.3
-5°	26256.5	43694.5	53803.7	56960.6	59018.7	62142.5	68365.2	86147.5	154828.6	310663.0	527621.7
-7.5°	23569.9	40719.0	52125.8	56520.0	58544.8	61264.9	66303.7	78957.6	120350.8	219059.5	402302.5
-10°	19857.1	36616.2	49818.5	55916.3	57898.3	60074.5	63528.9	69843.6	88044.9	148779.5	253162.4
-12.5°	15163.2	31443.4	46919.4	55148.1	57086.3	58921.1	61550.9	66057.2	75071.2	91196.0	148779.5
-15°	10310.2	25299.8	40970.4	51386.7	56108.7	57883.5	59662.5	62316.3	66924.5	75071.2	88044.9
-17.5°	7412.2	18266.4	33265.0	47098.5	54475.5	56696.6	58289.8	60023.4	62316.3	66057.2	69843.6
-20°	4153.9	10688.1	24708.6	38762.6	49335.1	55376.6	56896.0	58289.8	59662.5	61550.9	63528.9



REPORT NUMBER: P699866 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-5R-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	2570.6	6826.2	15409.3	28667.0	41564.7	50091.2	55376.6	56696.6	57883.5	58921.1	60074.5
-25°	1736.2	3018.2	8461.9	17961.5	30015.1	41564.7	49335.1	54475.5	56108.7	57086.3	57898.3
-27.5°	1317.0	2063.8	3712.2	9012.8	17961.5	28667.0	38762.6	47098.5	51386.7	55148.1	55916.3
-30°	1117.1	1361.9	2174.0	3712.2	8461.9	15409.3	24708.6	33265.0	40970.4	46919.4	49818.5
-32.5°	1062.9	1139.0	1361.9	2063.8	3018.2	6826.2	10688.1	18266.4	25299.8	31443.4	36616.2
-35°	1019.9	1062.9	1117.1	1317.0	1736.2	2570.6	4153.9	7412.2	10310.2	15163.2	19857.1
-37.5°	941.2	1012.7	1056.4	1084.8	1228.3	1392.4	1914.4	2561.0	3194.7	5505.5	7429.7
-40°	818.7	927.2	991.4	1043.7	1068.6	1097.9	1237.9	1364.2	1595.5	2051.6	2430.5
-42.5°	667.0	783.1	888.0	956.3	1009.3	1046.5	1066.2	1083.9	1148.7	1237.4	1310.9
-45°	488.3	611.8	724.5	816.8	902.9	953.7	995.3	1032.6	1049.6	1062.0	1072.2
-47.5°	363.3	432.0	530.2	632.8	724.1	797.8	864.8	920.8	951.1	977.1	998.5
-50°	271.1	316.5	376.9	433.5	512.2	593.6	667.6	728.7	777.3	818.9	853.3
-52.5°	207.5	240.2	272.6	307.6	356.3	401.0	441.5	498.0	551.4	597.0	634.7
-55°	178.6	192.5	205.6	229.3	255.3	279.1	303.5	336.8	365.9	390.7	411.2
-57.5°	154.3	164.0	174.0	185.3	195.7	205.2	220.3	237.9	253.3	266.4	277.2
-60°	134.0	140.8	149.0	156.8	164.0	170.7	178.6	185.6	191.7	196.9	201.2
-62.5°	117.0	122.8	128.6	134.0	139.0	144.2	149.7	154.5	158.7	162.3	165.2
-65°	101.9	106.7	111.2	115.4	119.3	123.4	127.1	130.4	133.2	135.7	137.7
-67.5°	88.0	91.8	95.5	98.8	102.2	105.3	108.2	110.7	112.9	114.8	116.3
-70°	71.8	76.2	80.3	83.8	86.5	89.0	91.3	93.3	95.0	96.5	97.7
-72.5°	56.0	58.6	61.3	64.7	67.7	70.5	73.1	75.3	77.2	78.9	80.3
-75°	44.0	46.1	48.1	50.1	51.8	53.5	54.9	56.2	57.3	58.3	59.1
-77.5°	33.4	35.0	36.5	37.9	39.2	40.3	41.4	42.3	43.1	43.8	44.4
-80°	24.2	25.3	26.3	27.2	28.1	28.9	29.6	30.2	30.8	31.2	31.6
-82.5°	16.2	16.9	17.5	18.1	18.6	19.1	19.5	19.9	20.3	20.5	20.8
-85°	9.9	10.2	10.5	10.7	11.0	11.2	11.4	11.5	11.7	11.8	11.9
-87.5°	5.0	5.1	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.0
-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: P699866 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-5R-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°	6.0	6.1	6.1	6.1	6.1	6.1	6.0	6.0	6.0	5.9	5.8
85°	12.0	12.1	12.1	12.1	12.1	12.1	12.0	11.9	11.8	11.7	11.5
82.5°	21.0	21.1	21.2	21.2	21.2	21.1	21.0	20.8	20.5	20.3	19.9
80°	31.9	32.1	32.3	32.3	32.3	32.1	31.9	31.6	31.2	30.8	30.2
77.5°	44.8	45.1	45.3	45.4	45.3	45.1	44.8	44.4	43.8	43.1	42.3
75°	59.7	60.1	60.4	60.5	60.4	60.1	59.7	59.1	58.3	57.3	56.2
72.5°	81.3	82.1	82.5	82.7	82.5	82.1	81.3	80.3	78.9	77.2	75.3
70°	98.7	99.4	99.8	99.9	99.8	99.4	98.7	97.7	96.5	95.0	93.3
67.5°	117.5	118.4	118.9	119.1	118.9	118.4	117.5	116.3	114.8	112.9	110.7
65°	139.3	140.4	141.1	141.3	141.1	140.4	139.3	137.7	135.7	133.2	130.4
62.5°	167.5	169.2	170.2	170.5	170.2	169.2	167.5	165.2	162.3	158.7	154.5
60°	204.6	207.0	208.4	208.9	208.4	207.0	204.6	201.2	196.9	191.7	185.6
57.5°	285.7	291.7	295.4	296.6	295.4	291.7	285.7	277.2	266.4	253.3	237.9
55°	427.3	438.8	445.7	448.0	445.7	438.8	427.3	411.2	390.7	365.9	336.8
52.5°	664.1	685.3	698.0	702.3	698.0	685.3	664.1	634.7	597.0	551.4	498.0
50°	880.3	899.6	911.3	915.2	911.3	899.6	880.3	853.3	818.9	777.3	728.7
47.5°	1015.4	1027.5	1034.8	1037.2	1034.8	1027.5	1015.4	998.5	977.1	951.1	920.8
45°	1080.3	1086.0	1089.5	1090.7	1089.5	1086.0	1080.3	1072.2	1062.0	1049.6	1032.6
42.5°	1368.7	1410.4	1435.5	1443.9	1435.5	1410.4	1368.7	1310.9	1237.4	1148.7	1083.9
40°	2729.0	2944.3	3074.3	3117.8	3074.3	2944.3	2729.0	2430.5	2051.6	1595.5	1364.2
37.5°	8948.4	10045.3	10708.5	10930.4	10708.5	10045.3	8948.4	7429.7	5505.5	3194.7	2561.0
35°	23569.9	26256.5	27882.9	28427.4	27882.9	26256.5	23569.9	19857.1	15163.2	10310.2	7412.2
32.5°	40719.0	43694.5	45498.5	46103.0	45498.5	43694.5	40719.0	36616.2	31443.4	25299.8	18266.4
30°	52125.8	53803.7	54822.9	55164.8	54822.9	53803.7	52125.8	49818.5	46919.4	40970.4	33265.0
27.5°	56520.0	56960.6	57228.9	57319.0	57228.9	56960.6	56520.0	55916.3	55148.1	51386.7	47098.5
25°	58544.8	59018.7	59308.2	59405.6	59308.2	59018.7	58544.8	57898.3	57086.3	56108.7	54475.5
22.5°	61264.9	62142.5	62680.9	62862.4	62680.9	62142.5	61264.9	60074.5	58921.1	57883.5	56696.6
20°	66303.7	68365.2	69637.3	70067.6	69637.3	68365.2	66303.7	63528.9	61550.9	59662.5	58289.8
17.5°	78957.6	86147.5	90620.6	92140.4	90620.6	86147.5	78957.6	69843.6	66057.2	62316.3	60023.4
15°	120350.8	154828.6	176536.8	183963.0	176536.8	154828.6	120350.8	88044.9	75071.2	66924.5	62316.3
12.5°	219059.5	310663.0	375989.9	400038.3	375989.9	310663.0	219059.5	148779.5	91196.0	75071.2	66057.2
10°	402302.5	527621.7	600259.3	625118.8	600259.3	527621.7	402302.5	253162.4	148779.5	88044.9	69843.6
7.5°	576864.1	683820.4	720195.2	727541.9	720195.2	683820.4	576864.1	402302.5	219059.5	120350.8	78957.6
5°	683820.4	735434.7	741470.2	741070.4	741470.2	735434.7	683820.4	527621.7	310663.0	154828.6	86147.5
2.5°	720195.2	741470.2	735624.2	732234.7	735624.2	741470.2	720195.2	600259.3	375989.9	176536.8	90620.6
0°	727541.9	741070.4	732234.7	729788.9	732234.7	741070.4	727541.9	625118.8	400038.3	183963.0	92140.4
-2.5°	720195.2	741470.2	735624.2	732234.7	735624.2	741470.2	720195.2	600259.3	375989.9	176536.8	90620.6
-5°	683820.4	735434.7	741470.2	741070.4	741470.2	735434.7	683820.4	527621.7	310663.0	154828.6	86147.5
-7.5°	576864.1	683820.4	720195.2	727541.9	720195.2	683820.4	576864.1	402302.5	219059.5	120350.8	78957.6
-10°	402302.5	527621.7	600259.3	625118.8	600259.3	527621.7	402302.5	253162.4	148779.5	88044.9	69843.6
-12.5°	219059.5	310663.0	375989.9	400038.3	375989.9	310663.0	219059.5	148779.5	91196.0	75071.2	66057.2
-15°	120350.8	154828.6	176536.8	183963.0	176536.8	154828.6	120350.8	88044.9	75071.2	66924.5	62316.3
-17.5°	78957.6	86147.5	90620.6	92140.4	90620.6	86147.5	78957.6	69843.6	66057.2	62316.3	60023.4
-20°	66303.7	68365.2	69637.3	70067.6	69637.3	68365.2	66303.7	63528.9	61550.9	59662.5	58289.8



REPORT NUMBER: P699866 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-5R-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	61264.9	62142.5	62680.9	62862.4	62680.9	62142.5	61264.9	60074.5	58921.1	57883.5	56696.6
-25°	58544.8	59018.7	59308.2	59405.6	59308.2	59018.7	58544.8	57898.3	57086.3	56108.7	54475.5
-27.5°	56520.0	56960.6	57228.9	57319.0	57228.9	56960.6	56520.0	55916.3	55148.1	51386.7	47098.5
-30°	52125.8	53803.7	54822.9	55164.8	54822.9	53803.7	52125.8	49818.5	46919.4	40970.4	33265.0
-32.5°	40719.0	43694.5	45498.5	46103.0	45498.5	43694.5	40719.0	36616.2	31443.4	25299.8	18266.4
-35°	23569.9	26256.5	27882.9	28427.4	27882.9	26256.5	23569.9	19857.1	15163.2	10310.2	7412.2
-37.5°	8948.4	10045.3	10708.5	10930.4	10708.5	10045.3	8948.4	7429.7	5505.5	3194.7	2561.0
-40°	2729.0	2944.3	3074.3	3117.8	3074.3	2944.3	2729.0	2430.5	2051.6	1595.5	1364.2
-42.5°	1368.7	1410.4	1435.5	1443.9	1435.5	1410.4	1368.7	1310.9	1237.4	1148.7	1083.9
-45°	1080.3	1086.0	1089.5	1090.7	1089.5	1086.0	1080.3	1072.2	1062.0	1049.6	1032.6
-47.5°	1015.4	1027.5	1034.8	1037.2	1034.8	1027.5	1015.4	998.5	977.1	951.1	920.8
-50°	880.3	899.6	911.3	915.2	911.3	899.6	880.3	853.3	818.9	777.3	728.7
-52.5°	664.1	685.3	698.0	702.3	698.0	685.3	664.1	634.7	597.0	551.4	498.0
-55°	427.3	438.8	445.7	448.0	445.7	438.8	427.3	411.2	390.7	365.9	336.8
-57.5°	285.7	291.7	295.4	296.6	295.4	291.7	285.7	277.2	266.4	253.3	237.9
-60°	204.6	207.0	208.4	208.9	208.4	207.0	204.6	201.2	196.9	191.7	185.6
-62.5°	167.5	169.2	170.2	170.5	170.2	169.2	167.5	165.2	162.3	158.7	154.5
-65°	139.3	140.4	141.1	141.3	141.1	140.4	139.3	137.7	135.7	133.2	130.4
-67.5°	117.5	118.4	118.9	119.1	118.9	118.4	117.5	116.3	114.8	112.9	110.7
-70°	98.7	99.4	99.8	99.9	99.8	99.4	98.7	97.7	96.5	95.0	93.3
-72.5°	81.3	82.1	82.5	82.7	82.5	82.1	81.3	80.3	78.9	77.2	75.3
-75°	59.7	60.1	60.4	60.5	60.4	60.1	59.7	59.1	58.3	57.3	56.2
-77.5°	44.8	45.1	45.3	45.4	45.3	45.1	44.8	44.4	43.8	43.1	42.3
-80°	31.9	32.1	32.3	32.3	32.3	32.1	31.9	31.6	31.2	30.8	30.2
-82.5°	21.0	21.1	21.2	21.2	21.2	21.1	21.0	20.8	20.5	20.3	19.9
-85°	12.0	12.1	12.1	12.1	12.1	12.1	12.0	11.9	11.8	11.7	11.5
-87.5°	6.0	6.1	6.1	6.1	6.1	6.1	6.0	6.0	6.0	5.9	5.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699866 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-5R-S

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°	5.7	5.6	5.5	5.4	5.3	5.1	5.0	4.8	4.7	4.5	4.3
85°	11.4	11.2	11.0	10.7	10.5	10.2	9.9	9.6	9.3	8.9	8.6
82.5°	19.5	19.1	18.6	18.1	17.5	16.9	16.2	15.5	14.8	14.0	13.2
80°	29.6	28.9	28.1	27.2	26.3	25.3	24.2	23.1	21.8	20.7	19.6
77.5°	41.4	40.3	39.2	37.9	36.5	35.0	33.4	31.8	30.3	28.7	27.0
75°	54.9	53.5	51.8	50.1	48.1	46.1	44.0	42.0	39.8	37.5	35.2
72.5°	73.1	70.5	67.7	64.7	61.3	58.6	56.0	53.3	50.3	47.3	44.2
70°	91.3	89.0	86.5	83.8	80.3	76.2	71.8	67.1	62.2	58.1	54.4
67.5°	108.2	105.3	102.2	98.8	95.5	91.8	88.0	83.9	78.7	72.8	66.7
65°	127.1	123.4	119.3	115.4	111.2	106.7	101.9	97.1	92.3	87.2	81.7
62.5°	149.7	144.2	139.0	134.0	128.6	122.8	117.0	111.3	105.4	99.2	93.4
60°	178.6	170.7	164.0	156.8	149.0	140.8	134.0	126.8	119.3	112.4	105.3
57.5°	220.3	205.2	195.7	185.3	174.0	164.0	154.3	144.0	135.1	126.5	117.8
55°	303.5	279.1	255.3	229.3	205.6	192.5	178.6	165.5	153.7	141.5	131.8
52.5°	441.5	401.0	356.3	307.6	272.6	240.2	207.5	191.7	175.1	160.8	147.1
50°	667.6	593.6	512.2	433.5	376.9	316.5	271.1	232.1	201.2	182.6	165.1
47.5°	864.8	797.8	724.1	632.8	530.2	432.0	363.3	293.5	249.8	207.0	186.4
45°	995.3	953.7	902.9	816.8	724.5	611.8	488.3	394.9	314.6	258.8	208.9
42.5°	1066.2	1046.5	1009.3	956.3	888.0	783.1	667.0	529.1	410.9	322.5	258.8
40°	1237.9	1097.9	1068.6	1043.7	991.4	927.2	818.7	694.8	542.8	410.9	314.6
37.5°	1914.4	1392.4	1228.3	1084.8	1056.4	1012.7	941.2	830.6	694.8	529.1	394.9
35°	4153.9	2570.6	1736.2	1317.0	1117.1	1062.9	1019.9	941.2	818.7	667.0	488.3
32.5°	10688.1	6826.2	3018.2	2063.8	1361.9	1139.0	1062.9	1012.7	927.2	783.1	611.8
30°	24708.6	15409.3	8461.9	3712.2	2174.0	1361.9	1117.1	1056.4	991.4	888.0	724.5
27.5°	38762.6	28667.0	17961.5	9012.8	3712.2	2063.8	1317.0	1084.8	1043.7	956.3	816.8
25°	49335.1	41564.7	30015.1	17961.5	8461.9	3018.2	1736.2	1228.3	1068.6	1009.3	902.9
22.5°	55376.6	50091.2	41564.7	28667.0	15409.3	6826.2	2570.6	1392.4	1097.9	1046.5	953.7
20°	56896.0	55376.6	49335.1	38762.6	24708.6	10688.1	4153.9	1914.4	1237.9	1066.2	995.3
17.5°	58289.8	56696.6	54475.5	47098.5	33265.0	18266.4	7412.2	2561.0	1364.2	1083.9	1032.6
15°	59662.5	57883.5	56108.7	51386.7	40970.4	25299.8	10310.2	3194.7	1595.5	1148.7	1049.6
12.5°	61550.9	58921.1	57086.3	55148.1	46919.4	31443.4	15163.2	5505.5	2051.6	1237.4	1062.0
10°	63528.9	60074.5	57898.3	55916.3	49818.5	36616.2	19857.1	7429.7	2430.5	1310.9	1072.2
7.5°	66303.7	61264.9	58544.8	56520.0	52125.8	40719.0	23569.9	8948.4	2729.0	1368.7	1080.3
5°	68365.2	62142.5	59018.7	56960.6	53803.7	43694.5	26256.5	10045.3	2944.3	1410.4	1086.0
2.5°	69637.3	62680.9	59308.2	57228.9	54822.9	45498.5	27882.9	10708.5	3074.3	1435.5	1089.5
0°	70067.6	62862.4	59405.6	57319.0	55164.8	46103.0	28427.4	10930.4	3117.8	1443.9	1090.7
-2.5°	69637.3	62680.9	59308.2	57228.9	54822.9	45498.5	27882.9	10708.5	3074.3	1435.5	1089.5
-5°	68365.2	62142.5	59018.7	56960.6	53803.7	43694.5	26256.5	10045.3	2944.3	1410.4	1086.0
-7.5°	66303.7	61264.9	58544.8	56520.0	52125.8	40719.0	23569.9	8948.4	2729.0	1368.7	1080.3
-10°	63528.9	60074.5	57898.3	55916.3	49818.5	36616.2	19857.1	7429.7	2430.5	1310.9	1072.2
-12.5°	61550.9	58921.1	57086.3	55148.1	46919.4	31443.4	15163.2	5505.5	2051.6	1237.4	1062.0
-15°	59662.5	57883.5	56108.7	51386.7	40970.4	25299.8	10310.2	3194.7	1595.5	1148.7	1049.6
-17.5°	58289.8	56696.6	54475.5	47098.5	33265.0	18266.4	7412.2	2561.0	1364.2	1083.9	1032.6
-20°	56896.0	55376.6	49335.1	38762.6	24708.6	10688.1	4153.9	1914.4	1237.9	1066.2	995.3



REPORT NUMBER: P699866 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-5R-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	55376.6	50091.2	41564.7	28667.0	15409.3	6826.2	2570.6	1392.4	1097.9	1046.5	953.7
-25°	49335.1	41564.7	30015.1	17961.5	8461.9	3018.2	1736.2	1228.3	1068.6	1009.3	902.9
-27.5°	38762.6	28667.0	17961.5	9012.8	3712.2	2063.8	1317.0	1084.8	1043.7	956.3	816.8
-30°	24708.6	15409.3	8461.9	3712.2	2174.0	1361.9	1117.1	1056.4	991.4	888.0	724.5
-32.5°	10688.1	6826.2	3018.2	2063.8	1361.9	1139.0	1062.9	1012.7	927.2	783.1	611.8
-35°	4153.9	2570.6	1736.2	1317.0	1117.1	1062.9	1019.9	941.2	818.7	667.0	488.3
-37.5°	1914.4	1392.4	1228.3	1084.8	1056.4	1012.7	941.2	830.6	694.8	529.1	394.9
-40°	1237.9	1097.9	1068.6	1043.7	991.4	927.2	818.7	694.8	542.8	410.9	314.6
-42.5°	1066.2	1046.5	1009.3	956.3	888.0	783.1	667.0	529.1	410.9	322.5	258.8
-45°	995.3	953.7	902.9	816.8	724.5	611.8	488.3	394.9	314.6	258.8	208.9
-47.5°	864.8	797.8	724.1	632.8	530.2	432.0	363.3	293.5	249.8	207.0	186.4
-50°	667.6	593.6	512.2	433.5	376.9	316.5	271.1	232.1	201.2	182.6	165.1
-52.5°	441.5	401.0	356.3	307.6	272.6	240.2	207.5	191.7	175.1	160.8	147.1
-55°	303.5	279.1	255.3	229.3	205.6	192.5	178.6	165.5	153.7	141.5	131.8
-57.5°	220.3	205.2	195.7	185.3	174.0	164.0	154.3	144.0	135.1	126.5	117.8
-60°	178.6	170.7	164.0	156.8	149.0	140.8	134.0	126.8	119.3	112.4	105.3
-62.5°	149.7	144.2	139.0	134.0	128.6	122.8	117.0	111.3	105.4	99.2	93.4
-65°	127.1	123.4	119.3	115.4	111.2	106.7	101.9	97.1	92.3	87.2	81.7
-67.5°	108.2	105.3	102.2	98.8	95.5	91.8	88.0	83.9	78.7	72.8	66.7
-70°	91.3	89.0	86.5	83.8	80.3	76.2	71.8	67.1	62.2	58.1	54.4
-72.5°	73.1	70.5	67.7	64.7	61.3	58.6	56.0	53.3	50.3	47.3	44.2
-75°	54.9	53.5	51.8	50.1	48.1	46.1	44.0	42.0	39.8	37.5	35.2
-77.5°	41.4	40.3	39.2	37.9	36.5	35.0	33.4	31.8	30.3	28.7	27.0
-80°	29.6	28.9	28.1	27.2	26.3	25.3	24.2	23.1	21.8	20.7	19.6
-82.5°	19.5	19.1	18.6	18.1	17.5	16.9	16.2	15.5	14.8	14.0	13.2
-85°	11.4	11.2	11.0	10.7	10.5	10.2	9.9	9.6	9.3	8.9	8.6
-87.5°	5.7	5.6	5.5	5.4	5.3	5.1	5.0	4.8	4.7	4.5	4.3
-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: P699866 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-5R-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°	4.1	3.9	3.7	3.5	3.3	3.0	2.8	2.6	2.3	2.1	1.8
85°	8.2	7.8	7.4	7.0	6.5	6.1	5.6	5.2	4.7	4.2	3.7
82.5°	12.3	11.7	11.0	10.4	9.8	9.1	8.4	7.7	7.0	6.2	5.5
80°	18.4	17.2	16.0	14.7	13.4	12.1	11.1	10.2	9.2	8.3	7.3
77.5°	25.2	23.4	21.5	19.9	18.2	16.5	14.8	13.0	11.5	10.3	9.1
75°	32.7	30.4	28.1	25.8	23.4	21.0	18.9	16.8	14.6	12.4	10.8
72.5°	41.3	38.3	35.2	32.0	29.2	26.3	23.3	20.5	18.0	15.4	12.8
70°	50.6	46.6	42.9	39.2	35.4	31.6	28.2	24.8	21.3	18.4	15.4
67.5°	60.4	55.9	51.3	46.5	42.1	37.7	33.2	29.2	25.3	21.3	18.0
65°	74.6	67.3	59.9	54.6	49.2	43.8	38.9	33.8	29.2	24.8	20.5
62.5°	87.4	80.6	72.3	63.7	56.7	50.5	44.4	38.9	33.2	28.2	23.3
60°	98.1	91.3	84.2	75.3	65.7	57.3	50.5	43.8	37.7	31.6	26.3
57.5°	109.8	101.5	93.7	85.8	76.3	65.7	56.7	49.2	42.1	35.4	29.2
55°	121.8	112.5	103.3	94.4	85.8	75.3	63.7	54.6	46.5	39.2	32.0
52.5°	134.9	123.9	113.4	103.3	93.7	84.2	72.3	59.9	51.3	42.9	35.2
50°	149.9	136.0	123.9	112.5	101.5	91.3	80.6	67.3	55.9	46.6	38.3
47.5°	166.5	149.9	134.9	121.8	109.8	98.1	87.4	74.6	60.4	50.6	41.3
45°	186.4	165.1	147.1	131.8	117.8	105.3	93.4	81.7	66.7	54.4	44.2
42.5°	207.0	182.6	160.8	141.5	126.5	112.4	99.2	87.2	72.8	58.1	47.3
40°	249.8	201.2	175.1	153.7	135.1	119.3	105.4	92.3	78.7	62.2	50.3
37.5°	293.5	232.1	191.7	165.5	144.0	126.8	111.3	97.1	83.9	67.1	53.3
35°	363.3	271.1	207.5	178.6	154.3	134.0	117.0	101.9	88.0	71.8	56.0
32.5°	432.0	316.5	240.2	192.5	164.0	140.8	122.8	106.7	91.8	76.2	58.6
30°	530.2	376.9	272.6	205.6	174.0	149.0	128.6	111.2	95.5	80.3	61.3
27.5°	632.8	433.5	307.6	229.3	185.3	156.8	134.0	115.4	98.8	83.8	64.7
25°	724.1	512.2	356.3	255.3	195.7	164.0	139.0	119.3	102.2	86.5	67.7
22.5°	797.8	593.6	401.0	279.1	205.2	170.7	144.2	123.4	105.3	89.0	70.5
20°	864.8	667.6	441.5	303.5	220.3	178.6	149.7	127.1	108.2	91.3	73.1
17.5°	920.8	728.7	498.0	336.8	237.9	185.6	154.5	130.4	110.7	93.3	75.3
15°	951.1	777.3	551.4	365.9	253.3	191.7	158.7	133.2	112.9	95.0	77.2
12.5°	977.1	818.9	597.0	390.7	266.4	196.9	162.3	135.7	114.8	96.5	78.9
10°	998.5	853.3	634.7	411.2	277.2	201.2	165.2	137.7	116.3	97.7	80.3
7.5°	1015.4	880.3	664.1	427.3	285.7	204.6	167.5	139.3	117.5	98.7	81.3
5°	1027.5	899.6	685.3	438.8	291.7	207.0	169.2	140.4	118.4	99.4	82.1
2.5°	1034.8	911.3	698.0	445.7	295.4	208.4	170.2	141.1	118.9	99.8	82.5
0°	1037.2	915.2	702.3	448.0	296.6	208.9	170.5	141.3	119.1	99.9	82.7
-2.5°	1034.8	911.3	698.0	445.7	295.4	208.4	170.2	141.1	118.9	99.8	82.5
-5°	1027.5	899.6	685.3	438.8	291.7	207.0	169.2	140.4	118.4	99.4	82.1
-7.5°	1015.4	880.3	664.1	427.3	285.7	204.6	167.5	139.3	117.5	98.7	81.3
-10°	998.5	853.3	634.7	411.2	277.2	201.2	165.2	137.7	116.3	97.7	80.3
-12.5°	977.1	818.9	597.0	390.7	266.4	196.9	162.3	135.7	114.8	96.5	78.9
-15°	951.1	777.3	551.4	365.9	253.3	191.7	158.7	133.2	112.9	95.0	77.2
-17.5°	920.8	728.7	498.0	336.8	237.9	185.6	154.5	130.4	110.7	93.3	75.3
-20°	864.8	667.6	441.5	303.5	220.3	178.6	149.7	127.1	108.2	91.3	73.1



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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°	797.8	593.6	401.0	279.1	205.2	170.7	144.2	123.4	105.3	89.0	70.5
-25°	724.1	512.2	356.3	255.3	195.7	164.0	139.0	119.3	102.2	86.5	67.7
-27.5°	632.8	433.5	307.6	229.3	185.3	156.8	134.0	115.4	98.8	83.8	64.7
-30°	530.2	376.9	272.6	205.6	174.0	149.0	128.6	111.2	95.5	80.3	61.3
-32.5°	432.0	316.5	240.2	192.5	164.0	140.8	122.8	106.7	91.8	76.2	58.6
-35°	363.3	271.1	207.5	178.6	154.3	134.0	117.0	101.9	88.0	71.8	56.0
-37.5°	293.5	232.1	191.7	165.5	144.0	126.8	111.3	97.1	83.9	67.1	53.3
-40°	249.8	201.2	175.1	153.7	135.1	119.3	105.4	92.3	78.7	62.2	50.3
-42.5°	207.0	182.6	160.8	141.5	126.5	112.4	99.2	87.2	72.8	58.1	47.3
-45°	186.4	165.1	147.1	131.8	117.8	105.3	93.4	81.7	66.7	54.4	44.2
-47.5°	166.5	149.9	134.9	121.8	109.8	98.1	87.4	74.6	60.4	50.6	41.3
-50°	149.9	136.0	123.9	112.5	101.5	91.3	80.6	67.3	55.9	46.6	38.3
-52.5°	134.9	123.9	113.4	103.3	93.7	84.2	72.3	59.9	51.3	42.9	35.2
-55°	121.8	112.5	103.3	94.4	85.8	75.3	63.7	54.6	46.5	39.2	32.0
-57.5°	109.8	101.5	93.7	85.8	76.3	65.7	56.7	49.2	42.1	35.4	29.2
-60°	98.1	91.3	84.2	75.3	65.7	57.3	50.5	43.8	37.7	31.6	26.3
-62.5°	87.4	80.6	72.3	63.7	56.7	50.5	44.4	38.9	33.2	28.2	23.3
-65°	74.6	67.3	59.9	54.6	49.2	43.8	38.9	33.8	29.2	24.8	20.5
-67.5°	60.4	55.9	51.3	46.5	42.1	37.7	33.2	29.2	25.3	21.3	18.0
-70°	50.6	46.6	42.9	39.2	35.4	31.6	28.2	24.8	21.3	18.4	15.4
-72.5°	41.3	38.3	35.2	32.0	29.2	26.3	23.3	20.5	18.0	15.4	12.8
-75°	32.7	30.4	28.1	25.8	23.4	21.0	18.9	16.8	14.6	12.4	10.8
-77.5°	25.2	23.4	21.5	19.9	18.2	16.5	14.8	13.0	11.5	10.3	9.1
-80°	18.4	17.2	16.0	14.7	13.4	12.1	11.1	10.2	9.2	8.3	7.3
-82.5°	12.3	11.7	11.0	10.4	9.8	9.1	8.4	7.7	7.0	6.2	5.5
-85°	8.2	7.8	7.4	7.0	6.5	6.1	5.6	5.2	4.7	4.2	3.7
-87.5°	4.1	3.9	3.7	3.5	3.3	3.0	2.8	2.6	2.3	2.1	1.8
-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-LS-16-1200L-40-70-5R-S

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°	1.6	1.3	1.1	0.8	0.5	0.3	0.0
85°	3.2	2.6	2.1	1.6	1.1	0.5	0.0
82.5°	4.7	4.0	3.2	2.4	1.6	0.8	0.0
80°	6.3	5.3	4.2	3.2	2.1	1.1	0.0
77.5°	7.8	6.5	5.3	4.0	2.6	1.3	0.0
75°	9.3	7.8	6.3	4.7	3.2	1.6	0.0
72.5°	10.8	9.1	7.3	5.5	3.7	1.8	0.0
70°	12.4	10.3	8.3	6.2	4.2	2.1	0.0
67.5°	14.6	11.5	9.2	7.0	4.7	2.3	0.0
65°	16.8	13.0	10.2	7.7	5.2	2.6	0.0
62.5°	18.9	14.8	11.1	8.4	5.6	2.8	0.0
60°	21.0	16.5	12.1	9.1	6.1	3.0	0.0
57.5°	23.4	18.2	13.4	9.8	6.5	3.3	0.0
55°	25.8	19.9	14.7	10.4	7.0	3.5	0.0
52.5°	28.1	21.5	16.0	11.0	7.4	3.7	0.0
50°	30.4	23.4	17.2	11.7	7.8	3.9	0.0
47.5°	32.7	25.2	18.4	12.3	8.2	4.1	0.0
45°	35.2	27.0	19.6	13.2	8.6	4.3	0.0
42.5°	37.5	28.7	20.7	14.0	8.9	4.5	0.0
40°	39.8	30.3	21.8	14.8	9.3	4.7	0.0
37.5°	42.0	31.8	23.1	15.5	9.6	4.8	0.0
35°	44.0	33.4	24.2	16.2	9.9	5.0	0.0
32.5°	46.1	35.0	25.3	16.9	10.2	5.1	0.0
30°	48.1	36.5	26.3	17.5	10.5	5.3	0.0
27.5°	50.1	37.9	27.2	18.1	10.7	5.4	0.0
25°	51.8	39.2	28.1	18.6	11.0	5.5	0.0
22.5°	53.5	40.3	28.9	19.1	11.2	5.6	0.0
20°	54.9	41.4	29.6	19.5	11.4	5.7	0.0
17.5°	56.2	42.3	30.2	19.9	11.5	5.8	0.0
15°	57.3	43.1	30.8	20.3	11.7	5.9	0.0
12.5°	58.3	43.8	31.2	20.5	11.8	6.0	0.0
10°	59.1	44.4	31.6	20.8	11.9	6.0	0.0
7.5°	59.7	44.8	31.9	21.0	12.0	6.0	0.0
5°	60.1	45.1	32.1	21.1	12.1	6.1	0.0
2.5°	60.4	45.3	32.3	21.2	12.1	6.1	0.0
0°	60.5	45.4	32.3	21.2	12.1	6.1	0.0
-2.5°	60.4	45.3	32.3	21.2	12.1	6.1	0.0
-5°	60.1	45.1	32.1	21.1	12.1	6.1	0.0
-7.5°	59.7	44.8	31.9	21.0	12.0	6.0	0.0
-10°	59.1	44.4	31.6	20.8	11.9	6.0	0.0
-12.5°	58.3	43.8	31.2	20.5	11.8	6.0	0.0
-15°	57.3	43.1	30.8	20.3	11.7	5.9	0.0
-17.5°	56.2	42.3	30.2	19.9	11.5	5.8	0.0
-20°	54.9	41.4	29.6	19.5	11.4	5.7	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	53.5	40.3	28.9	19.1	11.2	5.6	0.0
-25°	51.8	39.2	28.1	18.6	11.0	5.5	0.0
-27.5°	50.1	37.9	27.2	18.1	10.7	5.4	0.0
-30°	48.1	36.5	26.3	17.5	10.5	5.3	0.0
-32.5°	46.1	35.0	25.3	16.9	10.2	5.1	0.0
-35°	44.0	33.4	24.2	16.2	9.9	5.0	0.0
-37.5°	42.0	31.8	23.1	15.5	9.6	4.8	0.0
-40°	39.8	30.3	21.8	14.8	9.3	4.7	0.0
-42.5°	37.5	28.7	20.7	14.0	8.9	4.5	0.0
-45°	35.2	27.0	19.6	13.2	8.6	4.3	0.0
-47.5°	32.7	25.2	18.4	12.3	8.2	4.1	0.0
-50°	30.4	23.4	17.2	11.7	7.8	3.9	0.0
-52.5°	28.1	21.5	16.0	11.0	7.4	3.7	0.0
-55°	25.8	19.9	14.7	10.4	7.0	3.5	0.0
-57.5°	23.4	18.2	13.4	9.8	6.5	3.3	0.0
-60°	21.0	16.5	12.1	9.1	6.1	3.0	0.0
-62.5°	18.9	14.8	11.1	8.4	5.6	2.8	0.0
-65°	16.8	13.0	10.2	7.7	5.2	2.6	0.0
-67.5°	14.6	11.5	9.2	7.0	4.7	2.3	0.0
-70°	12.4	10.3	8.3	6.2	4.2	2.1	0.0
-72.5°	10.8	9.1	7.3	5.5	3.7	1.8	0.0
-75°	9.3	7.8	6.3	4.7	3.2	1.6	0.0
-77.5°	7.8	6.5	5.3	4.0	2.6	1.3	0.0
-80°	6.3	5.3	4.2	3.2	2.1	1.1	0.0
-82.5°	4.7	4.0	3.2	2.4	1.6	0.8	0.0
-85°	3.2	2.6	2.1	1.6	1.1	0.5	0.0
-87.5°	1.6	1.3	1.1	0.8	0.5	0.3	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)