

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: P699856 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200L-40-70-1R-S**

Issue Date: 8/10/2023

Test Information

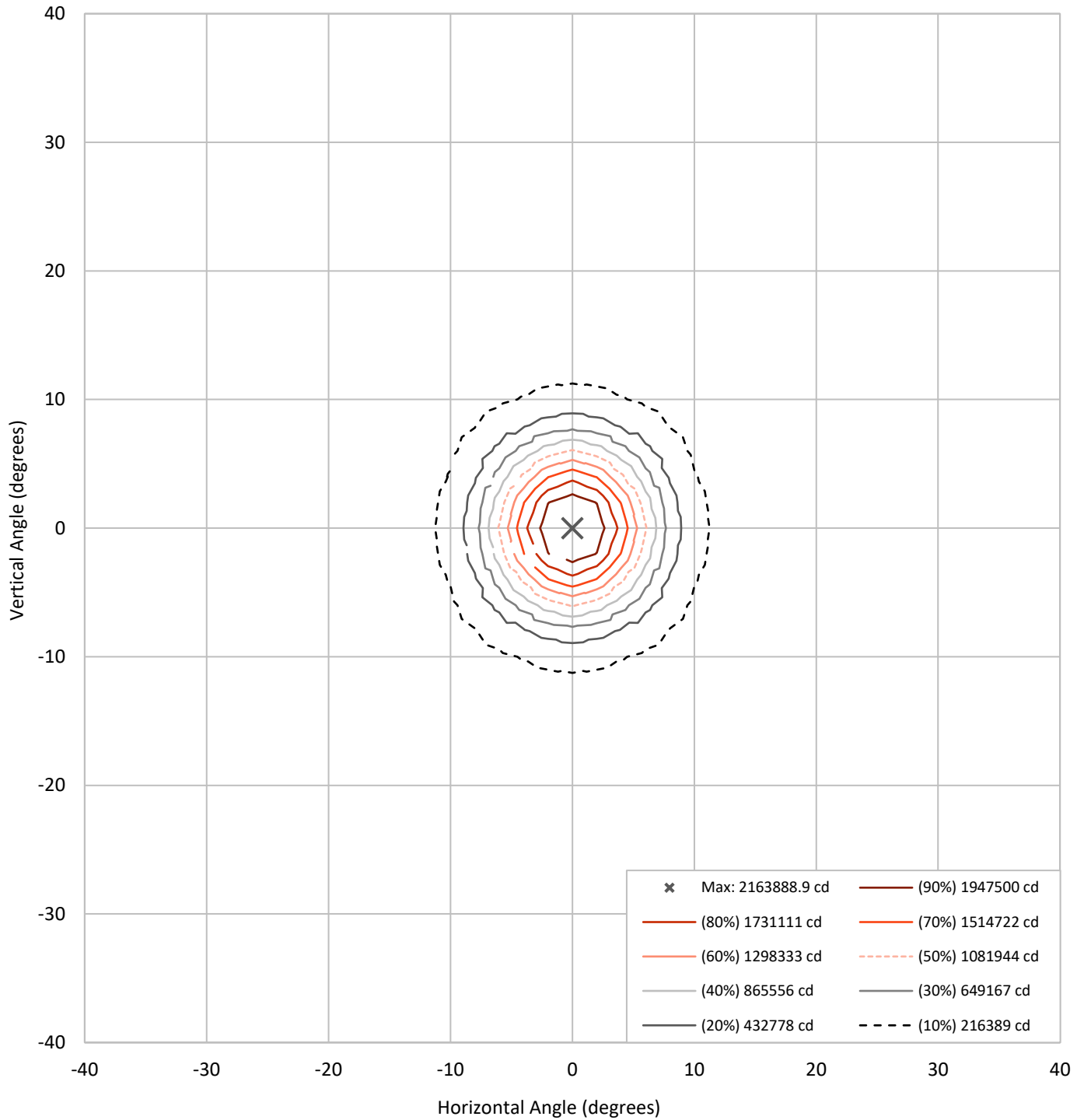
Test Method: LM-79-08
Report Number: P699856 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-47)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200L-40-70-1R-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 4000K, 70 CRI LEDS AND 1R BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	174227.3 lumens	Max Intensity:	2163888.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	138.7 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	12.1°H x 12.1°V	Field Angle (10%):	22.5°H x 22.5°V
Beam Lumens:	49790.9 lumens	Field Lumens:	93843.6 lumens
Beam Efficiency:	28.6%	Field Efficiency:	53.9%
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





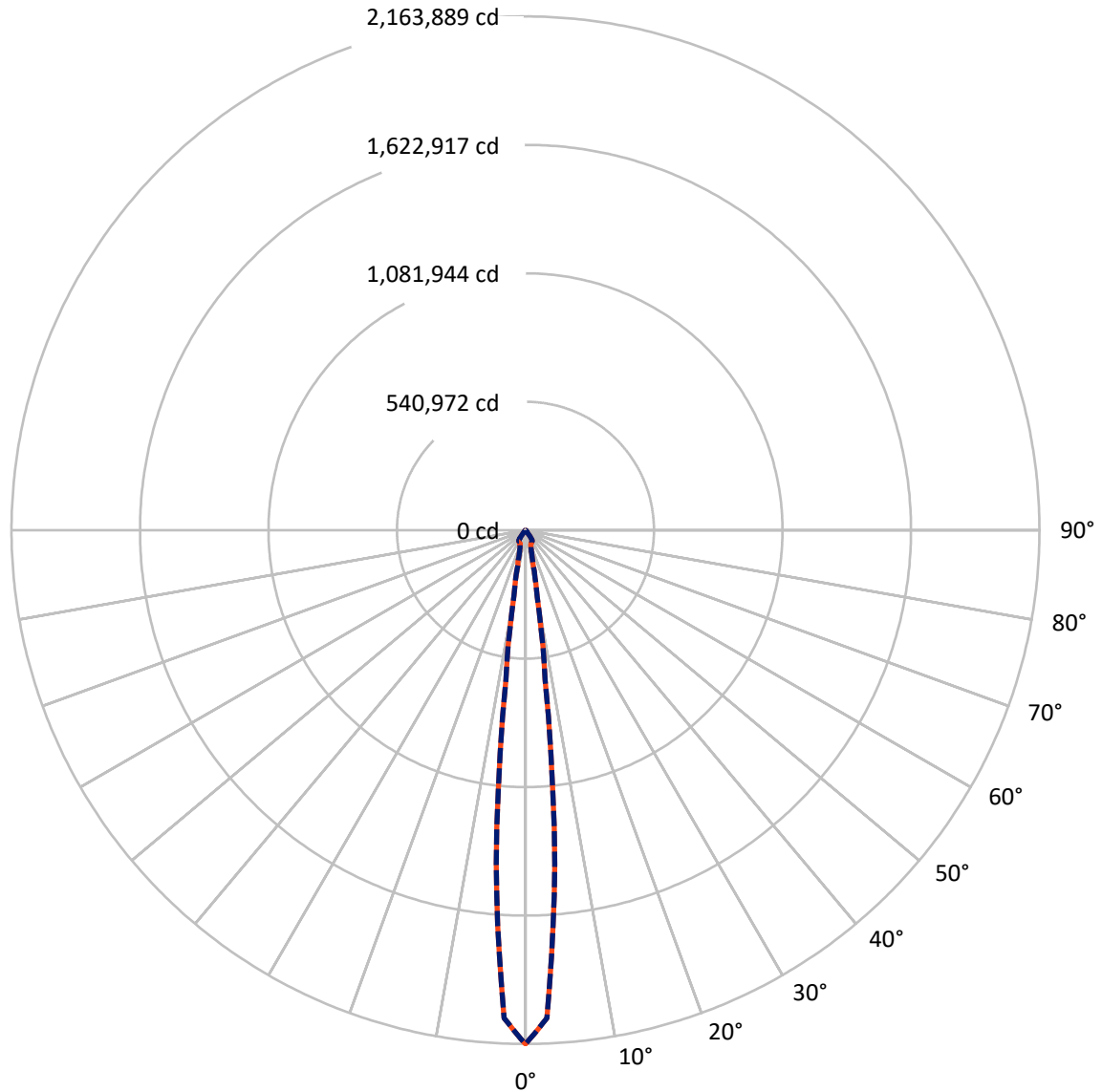
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Lumen Table

90	0.2	1.2		2.9		4.4		5.1		4.4		2.9		1.2		0.2
80	0.2	1.2		2.9		4.4		5.1		4.4		2.9		1.2		0.2
70	0.6	0.5	1.0	1.7	2.5	4.0	5.8	6.8	6.8	5.8	4.0	2.5	1.7	1.0	0.5	0.6
60		0.8	1.6	3.8	8.4	11.9	14.7	16.3	16.3	14.7	11.9	8.4	3.8	1.6	0.8	
50	0.9	1.0	3.1	8.7	13.8	22.1	40.2	66.2	66.2	40.2	22.1	13.8	8.7	3.1	1.0	0.9
40		1.3	6.0	12.0	27.2	189.0	695.0	1067.9	1067.9	695.0	189.0	27.2	12.0	6.0	1.3	
30	1.1	1.9	7.6	17.4	173.0	1050.6	1610.1	1768.5	1768.5	1610.1	1050.6	173.0	17.4	7.6	1.9	1.1
20		2.7	8.8	30.0	599.3	1511.8	1941.0	3169.9	3169.9	1941.0	1511.8	599.3	30.0	8.8	2.7	
10	1.2	3.0	9.5	48.5	890.2	1610.4	3085.0	23769.7	23769.7	3085.0	1610.4	890.2	48.5	9.5	3.0	1.2
0		3.0	9.5	48.5	890.2	1610.4	3085.0	23769.7	23769.7	3085.0	1610.4	890.2	48.5	9.5	3.0	
-10	1.1	2.7	8.8	30.0	599.3	1511.8	1941.0	3169.9	3169.9	1941.0	1511.8	599.3	30.0	8.8	2.7	1.1
-20		1.9	7.6	17.4	173.0	1050.6	1610.1	1768.5	1768.5	1610.1	1050.6	173.0	17.4	7.6	1.9	
-30	0.9	1.3	6.0	12.0	27.2	189.0	695.0	1067.9	1067.9	695.0	189.0	27.2	12.0	6.0	1.3	0.9
-40		1.0	3.1	8.7	13.8	22.1	40.2	66.2	66.2	40.2	22.1	13.8	8.7	3.1	1.0	
-50	0.6	0.8	1.6	3.8	8.4	11.9	14.7	16.3	16.3	14.7	11.9	8.4	3.8	1.6	0.8	0.6
-60		0.5	1.0	1.7	2.5	4.0	5.8	6.8	6.8	5.8	4.0	2.5	1.7	1.0	0.5	
-70	0.2	1.2		2.9		4.4		5.1		4.4		2.9		1.2		0.2
-80		1.2		2.9		4.4		5.1		4.4		2.9		1.2		
-90	0.2	1.2		2.9		4.4		5.1		4.4		2.9		1.2		0.2

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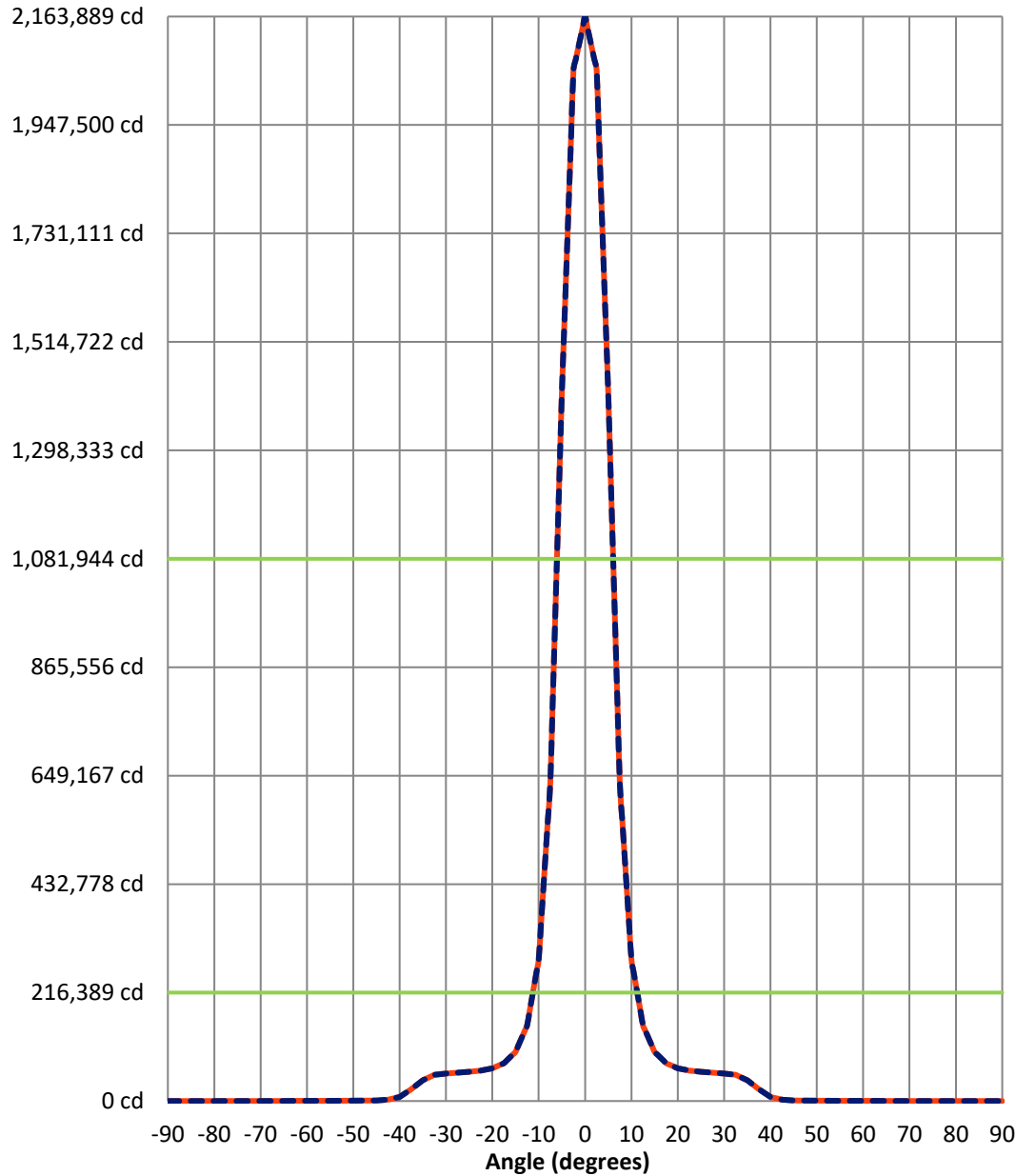
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 12.1°
 V Angle: 12.1°
 Lumens: 49790.9
 Efficiency: 28.6%

Field:
 H Angle: 22.5°
 V Angle: 22.5°
 Lumens: 93843.6
 Efficiency: 53.9%

Spill:
 Lumens: 80383.6
 Efficiency: 46.1%

— 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	0.4	0.9	1.3	1.8	2.2	2.6	3.0	3.5	3.9	4.3
85°	0.0	0.9	1.8	2.6	3.5	4.4	5.2	6.1	6.9	7.7	8.5
82.5°	0.0	1.3	2.6	3.9	5.2	6.5	7.8	9.1	10.3	11.6	12.8
80°	0.0	1.8	3.5	5.2	7.0	8.7	10.4	12.1	13.8	15.4	17.0
77.5°	0.0	2.2	4.4	6.5	8.7	10.8	13.0	15.1	17.2	19.2	21.2
75°	0.0	2.6	5.2	7.8	10.4	13.0	15.5	18.0	20.5	23.0	25.4
72.5°	0.0	3.0	6.1	9.1	12.1	15.1	18.0	21.0	23.8	26.7	29.5
70°	0.0	3.5	6.9	10.3	13.8	17.2	20.5	23.8	27.1	30.4	33.6
67.5°	0.0	3.9	7.7	11.6	15.4	19.2	23.0	26.7	30.4	34.0	37.6
65°	0.0	4.3	8.5	12.8	17.0	21.2	25.4	29.5	33.6	37.6	41.6
62.5°	0.0	4.7	9.3	14.0	18.6	23.2	27.7	32.2	36.7	41.1	45.4
60°	0.0	5.0	10.1	15.1	20.1	25.1	30.0	34.9	39.8	44.5	49.2
57.5°	0.0	5.4	10.8	16.2	21.6	27.0	32.3	37.6	42.8	47.9	52.9
55°	0.0	5.8	11.6	17.3	23.1	28.8	34.5	40.1	45.7	51.1	56.6
52.5°	0.0	6.1	12.3	18.4	24.5	30.6	36.6	42.6	48.5	54.3	60.1
50°	0.0	6.5	13.0	19.4	25.9	32.3	38.7	45.0	51.2	57.4	66.7
47.5°	0.0	6.8	13.6	20.4	27.2	34.0	40.7	47.3	53.9	60.4	73.3
45°	0.0	7.1	14.3	21.4	28.5	35.6	42.6	49.5	56.4	66.2	79.8
42.5°	0.0	7.4	14.9	22.3	29.7	37.1	44.4	51.6	58.9	71.7	83.3
40°	0.0	7.7	15.5	23.2	30.9	38.6	46.1	53.7	62.0	77.0	86.3
37.5°	0.0	8.0	16.0	24.0	32.0	39.9	47.8	55.7	66.5	81.4	89.1
35°	0.0	8.3	16.5	24.8	33.0	41.2	49.4	57.5	70.8	83.8	92.9
32.5°	0.0	8.5	17.0	25.5	34.0	42.5	50.8	59.3	74.8	86.1	97.9
30°	0.0	8.7	17.5	26.2	34.9	43.6	52.2	61.3	78.5	88.2	102.7
27.5°	0.0	9.0	17.9	26.9	35.8	44.7	53.5	64.3	81.3	90.2	107.1
25°	0.0	9.2	18.3	27.4	36.6	45.7	54.7	67.1	83.0	93.2	111.3
22.5°	0.0	9.3	18.7	28.0	37.3	46.5	55.8	69.6	84.4	96.5	118.8
20°	0.0	9.5	19.0	28.5	37.9	47.3	56.8	71.9	85.7	99.5	125.5
17.5°	0.0	9.6	19.3	28.9	38.5	48.1	57.6	74.0	86.9	102.2	131.5
15°	0.0	9.8	19.5	29.3	39.0	48.7	58.4	75.7	87.9	104.5	136.7
12.5°	0.0	9.9	19.7	29.6	39.4	49.2	59.0	77.2	88.8	106.5	141.1
10°	0.0	9.9	19.9	29.8	39.8	49.6	59.6	78.5	89.5	108.1	144.8
7.5°	0.0	10.0	20.0	30.0	40.1	50.0	60.0	79.5	90.1	109.4	147.6
5°	0.0	10.1	20.1	30.2	40.2	50.2	60.3	80.1	90.5	110.3	149.7
2.5°	0.0	10.1	20.2	30.3	40.4	50.4	60.4	80.6	90.7	110.8	150.9
0°	0.0	10.1	20.2	30.3	40.4	50.4	60.5	80.7	90.8	111.0	151.3
-2.5°	0.0	10.1	20.2	30.3	40.4	50.4	60.4	80.6	90.7	110.8	150.9
-5°	0.0	10.1	20.1	30.2	40.2	50.2	60.3	80.1	90.5	110.3	149.7
-7.5°	0.0	10.0	20.0	30.0	40.1	50.0	60.0	79.5	90.1	109.4	147.6
-10°	0.0	9.9	19.9	29.8	39.8	49.6	59.6	78.5	89.5	108.1	144.8
-12.5°	0.0	9.9	19.7	29.6	39.4	49.2	59.0	77.2	88.8	106.5	141.1
-15°	0.0	9.8	19.5	29.3	39.0	48.7	58.4	75.7	87.9	104.5	136.7
-17.5°	0.0	9.6	19.3	28.9	38.5	48.1	57.6	74.0	86.9	102.2	131.5
-20°	0.0	9.5	19.0	28.5	37.9	47.3	56.8	71.9	85.7	99.5	125.5



REPORT NUMBER: P699856 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-1R-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	9.3	18.7	28.0	37.3	46.5	55.8	69.6	84.4	96.5	118.8
-25°	0.0	9.2	18.3	27.4	36.6	45.7	54.7	67.1	83.0	93.2	111.3
-27.5°	0.0	9.0	17.9	26.9	35.8	44.7	53.5	64.3	81.3	90.2	107.1
-30°	0.0	8.7	17.5	26.2	34.9	43.6	52.2	61.3	78.5	88.2	102.7
-32.5°	0.0	8.5	17.0	25.5	34.0	42.5	50.8	59.3	74.8	86.1	97.9
-35°	0.0	8.3	16.5	24.8	33.0	41.2	49.4	57.5	70.8	83.8	92.9
-37.5°	0.0	8.0	16.0	24.0	32.0	39.9	47.8	55.7	66.5	81.4	89.1
-40°	0.0	7.7	15.5	23.2	30.9	38.6	46.1	53.7	62.0	77.0	86.3
-42.5°	0.0	7.4	14.9	22.3	29.7	37.1	44.4	51.6	58.9	71.7	83.3
-45°	0.0	7.1	14.3	21.4	28.5	35.6	42.6	49.5	56.4	66.2	79.8
-47.5°	0.0	6.8	13.6	20.4	27.2	34.0	40.7	47.3	53.9	60.4	73.3
-50°	0.0	6.5	13.0	19.4	25.9	32.3	38.7	45.0	51.2	57.4	66.7
-52.5°	0.0	6.1	12.3	18.4	24.5	30.6	36.6	42.6	48.5	54.3	60.1
-55°	0.0	5.8	11.6	17.3	23.1	28.8	34.5	40.1	45.7	51.1	56.6
-57.5°	0.0	5.4	10.8	16.2	21.6	27.0	32.3	37.6	42.8	47.9	52.9
-60°	0.0	5.0	10.1	15.1	20.1	25.1	30.0	34.9	39.8	44.5	49.2
-62.5°	0.0	4.7	9.3	14.0	18.6	23.2	27.7	32.2	36.7	41.1	45.4
-65°	0.0	4.3	8.5	12.8	17.0	21.2	25.4	29.5	33.6	37.6	41.6
-67.5°	0.0	3.9	7.7	11.6	15.4	19.2	23.0	26.7	30.4	34.0	37.6
-70°	0.0	3.5	6.9	10.3	13.8	17.2	20.5	23.8	27.1	30.4	33.6
-72.5°	0.0	3.0	6.1	9.1	12.1	15.1	18.0	21.0	23.8	26.7	29.5
-75°	0.0	2.6	5.2	7.8	10.4	13.0	15.5	18.0	20.5	23.0	25.4
-77.5°	0.0	2.2	4.4	6.5	8.7	10.8	13.0	15.1	17.2	19.2	21.2
-80°	0.0	1.8	3.5	5.2	7.0	8.7	10.4	12.1	13.8	15.4	17.0
-82.5°	0.0	1.3	2.6	3.9	5.2	6.5	7.8	9.1	10.3	11.6	12.8
-85°	0.0	0.9	1.8	2.6	3.5	4.4	5.2	6.1	6.9	7.7	8.5
-87.5°	0.0	0.4	0.9	1.3	1.8	2.2	2.6	3.0	3.5	3.9	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: P699856 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-1R-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°	4.7	5.0	5.4	5.8	6.1	6.5	6.8	7.1	7.4	7.7	8.0
85°	9.3	10.1	10.8	11.6	12.3	13.0	13.6	14.3	14.9	15.5	16.0
82.5°	14.0	15.1	16.2	17.3	18.4	19.4	20.4	21.4	22.3	23.2	24.0
80°	18.6	20.1	21.6	23.1	24.5	25.9	27.2	28.5	29.7	30.9	32.0
77.5°	23.2	25.1	27.0	28.8	30.6	32.3	34.0	35.6	37.1	38.6	39.9
75°	27.7	30.0	32.3	34.5	36.6	38.7	40.7	42.6	44.4	46.1	47.8
72.5°	32.2	34.9	37.6	40.1	42.6	45.0	47.3	49.5	51.6	53.7	55.7
70°	36.7	39.8	42.8	45.7	48.5	51.2	53.9	56.4	58.9	62.0	66.5
67.5°	41.1	44.5	47.9	51.1	54.3	57.4	60.4	66.2	71.7	77.0	81.4
65°	45.4	49.2	52.9	56.6	60.1	66.7	73.3	79.8	83.3	86.3	89.1
62.5°	49.6	53.8	57.9	63.4	71.2	78.8	83.4	87.0	90.4	96.6	102.8
60°	53.8	58.4	65.2	74.0	81.6	85.7	89.8	96.5	104.0	111.3	125.0
57.5°	57.9	65.2	74.9	82.5	87.1	92.5	101.2	109.6	124.5	140.1	174.6
55°	63.4	74.0	82.5	87.6	94.3	104.0	115.8	134.0	153.0	258.7	360.0
52.5°	71.2	81.6	87.1	94.3	105.0	119.6	139.8	201.4	319.7	404.8	409.2
50°	78.8	85.7	92.5	104.0	119.6	141.7	225.8	356.6	406.8	411.7	416.4
47.5°	83.4	89.8	101.2	115.8	139.8	225.8	368.9	407.8	413.2	418.4	423.4
45°	87.0	96.5	109.6	134.0	201.4	356.6	407.8	413.7	419.4	434.6	482.8
42.5°	90.4	104.0	124.5	153.0	319.7	406.8	413.2	419.4	439.3	492.4	553.2
40°	96.6	111.3	140.1	258.7	404.8	411.7	418.4	434.6	492.4	559.7	632.1
37.5°	102.8	125.0	174.6	360.0	409.2	416.4	423.4	482.8	553.2	632.1	739.1
35°	108.8	138.1	263.5	405.7	413.3	420.9	463.8	533.8	618.9	729.4	837.3
32.5°	117.8	150.4	347.7	409.4	417.3	435.7	505.0	592.6	700.8	821.1	920.1
30°	128.3	217.8	404.5	412.8	421.0	472.0	553.8	653.6	785.3	895.4	1010.1
27.5°	138.1	285.3	407.5	416.1	430.4	505.9	602.6	727.9	854.8	969.3	1101.2
25°	147.1	347.7	410.2	419.0	459.6	545.2	653.2	797.3	916.2	1049.3	1776.4
22.5°	176.7	403.6	412.7	421.8	486.4	583.9	712.6	851.8	978.3	1154.2	2559.2
20°	223.5	405.7	415.0	428.0	510.7	619.2	766.6	900.0	1041.3	1822.2	4325.3
17.5°	265.1	407.6	417.0	447.9	538.4	656.9	813.7	943.2	1098.1	2424.8	6414.2
15°	301.5	409.2	418.8	465.4	563.8	696.1	848.8	988.3	1396.7	3294.9	8364.9
12.5°	332.5	410.5	420.3	480.3	585.6	729.7	878.8	1027.9	1819.6	4768.4	12921.9
10°	358.0	411.7	421.6	492.5	603.5	757.4	903.7	1060.7	2170.4	5992.7	16716.8
7.5°	377.9	412.6	422.5	502.2	617.5	779.1	923.2	1086.5	2446.3	6957.1	19711.6
5°	392.2	413.2	423.2	509.1	627.6	794.7	937.2	1105.1	2645.0	7652.6	21874.9
2.5°	400.7	413.6	423.7	513.2	633.7	804.1	945.7	1116.3	2764.9	8072.7	23182.8
0°	403.6	413.7	423.8	514.6	635.7	807.2	948.5	1120.0	2805.0	8213.2	23620.4
-2.5°	400.7	413.6	423.7	513.2	633.7	804.1	945.7	1116.3	2764.9	8072.7	23182.8
-5°	392.2	413.2	423.2	509.1	627.6	794.7	937.2	1105.1	2645.0	7652.6	21874.9
-7.5°	377.9	412.6	422.5	502.2	617.5	779.1	923.2	1086.5	2446.3	6957.1	19711.6
-10°	358.0	411.7	421.6	492.5	603.5	757.4	903.7	1060.7	2170.4	5992.7	16716.8
-12.5°	332.5	410.5	420.3	480.3	585.6	729.7	878.8	1027.9	1819.6	4768.4	12921.9
-15°	301.5	409.2	418.8	465.4	563.8	696.1	848.8	988.3	1396.7	3294.9	8364.9
-17.5°	265.1	407.6	417.0	447.9	538.4	656.9	813.7	943.2	1098.1	2424.8	6414.2
-20°	223.5	405.7	415.0	428.0	510.7	619.2	766.6	900.0	1041.3	1822.2	4325.3



REPORT NUMBER: P699856 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-1R-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	176.7	403.6	412.7	421.8	486.4	583.9	712.6	851.8	978.3	1154.2	2559.2
-25°	147.1	347.7	410.2	419.0	459.6	545.2	653.2	797.3	916.2	1049.3	1776.4
-27.5°	138.1	285.3	407.5	416.1	430.4	505.9	602.6	727.9	854.8	969.3	1101.2
-30°	128.3	217.8	404.5	412.8	421.0	472.0	553.8	653.6	785.3	895.4	1010.1
-32.5°	117.8	150.4	347.7	409.4	417.3	435.7	505.0	592.6	700.8	821.1	920.1
-35°	108.8	138.1	263.5	405.7	413.3	420.9	463.8	533.8	618.9	729.4	837.3
-37.5°	102.8	125.0	174.6	360.0	409.2	416.4	423.4	482.8	553.2	632.1	739.1
-40°	96.6	111.3	140.1	258.7	404.8	411.7	418.4	434.6	492.4	559.7	632.1
-42.5°	90.4	104.0	124.5	153.0	319.7	406.8	413.2	419.4	439.3	492.4	553.2
-45°	87.0	96.5	109.6	134.0	201.4	356.6	407.8	413.7	419.4	434.6	482.8
-47.5°	83.4	89.8	101.2	115.8	139.8	225.8	368.9	407.8	413.2	418.4	423.4
-50°	78.8	85.7	92.5	104.0	119.6	141.7	225.8	356.6	406.8	411.7	416.4
-52.5°	71.2	81.6	87.1	94.3	105.0	119.6	139.8	201.4	319.7	404.8	409.2
-55°	63.4	74.0	82.5	87.6	94.3	104.0	115.8	134.0	153.0	258.7	360.0
-57.5°	57.9	65.2	74.9	82.5	87.1	92.5	101.2	109.6	124.5	140.1	174.6
-60°	53.8	58.4	65.2	74.0	81.6	85.7	89.8	96.5	104.0	111.3	125.0
-62.5°	49.6	53.8	57.9	63.4	71.2	78.8	83.4	87.0	90.4	96.6	102.8
-65°	45.4	49.2	52.9	56.6	60.1	66.7	73.3	79.8	83.3	86.3	89.1
-67.5°	41.1	44.5	47.9	51.1	54.3	57.4	60.4	66.2	71.7	77.0	81.4
-70°	36.7	39.8	42.8	45.7	48.5	51.2	53.9	56.4	58.9	62.0	66.5
-72.5°	32.2	34.9	37.6	40.1	42.6	45.0	47.3	49.5	51.6	53.7	55.7
-75°	27.7	30.0	32.3	34.5	36.6	38.7	40.7	42.6	44.4	46.1	47.8
-77.5°	23.2	25.1	27.0	28.8	30.6	32.3	34.0	35.6	37.1	38.6	39.9
-80°	18.6	20.1	21.6	23.1	24.5	25.9	27.2	28.5	29.7	30.9	32.0
-82.5°	14.0	15.1	16.2	17.3	18.4	19.4	20.4	21.4	22.3	23.2	24.0
-85°	9.3	10.1	10.8	11.6	12.3	13.0	13.6	14.3	14.9	15.5	16.0
-87.5°	4.7	5.0	5.4	5.8	6.1	6.5	6.8	7.1	7.4	7.7	8.0
-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: P699856 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-1R-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°	8.3	8.5	8.7	9.0	9.2	9.3	9.5	9.6	9.8	9.9	9.9
85°	16.5	17.0	17.5	17.9	18.3	18.7	19.0	19.3	19.5	19.7	19.9
82.5°	24.8	25.5	26.2	26.9	27.4	28.0	28.5	28.9	29.3	29.6	29.8
80°	33.0	34.0	34.9	35.8	36.6	37.3	37.9	38.5	39.0	39.4	39.8
77.5°	41.2	42.5	43.6	44.7	45.7	46.5	47.3	48.1	48.7	49.2	49.6
75°	49.4	50.8	52.2	53.5	54.7	55.8	56.8	57.6	58.4	59.0	59.6
72.5°	57.5	59.3	61.3	64.3	67.1	69.6	71.9	74.0	75.7	77.2	78.5
70°	70.8	74.8	78.5	81.3	83.0	84.4	85.7	86.9	87.9	88.8	89.5
67.5°	83.8	86.1	88.2	90.2	93.2	96.5	99.5	102.2	104.5	106.5	108.1
65°	92.9	97.9	102.7	107.1	111.3	118.8	125.5	131.5	136.7	141.1	144.8
62.5°	108.8	117.8	128.3	138.1	147.1	176.7	223.5	265.1	301.5	332.5	358.0
60°	138.1	150.4	217.8	285.3	347.7	403.6	405.7	407.6	409.2	410.5	411.7
57.5°	263.5	347.7	404.5	407.5	410.2	412.7	415.0	417.0	418.8	420.3	421.6
55°	405.7	409.4	412.8	416.1	419.0	421.8	428.0	447.9	465.4	480.3	492.5
52.5°	413.3	417.3	421.0	430.4	459.6	486.4	510.7	538.4	563.8	585.6	603.5
50°	420.9	435.7	472.0	505.9	545.2	583.9	619.2	656.9	696.1	729.7	757.4
47.5°	463.8	505.0	553.8	602.6	653.2	712.6	766.6	813.7	848.8	878.8	903.7
45°	533.8	592.6	653.6	727.9	797.3	851.8	900.0	943.2	988.3	1027.9	1060.7
42.5°	618.9	700.8	785.3	854.8	916.2	978.3	1041.3	1098.1	1396.7	1819.6	2170.4
40°	729.4	821.1	895.4	969.3	1049.3	1154.2	1822.2	2424.8	3294.9	4768.4	5992.7
37.5°	837.3	920.1	1010.1	1101.2	1776.4	2559.2	4325.3	6414.2	8364.9	12921.9	16716.8
35°	928.4	1030.7	1245.8	2199.6	3749.5	6445.2	10256.5	16682.1	22397.4	27940.8	32731.9
32.5°	1030.7	1350.2	2413.9	4807.8	7891.3	15526.5	23142.5	31108.2	38287.3	43333.8	46514.0
30°	1245.8	2413.9	5163.8	9385.3	18752.3	28192.0	37683.8	44453.7	49190.9	52574.6	53384.8
27.5°	2199.6	4807.8	9385.3	19838.7	30797.1	41626.9	47833.6	52624.6	53823.0	54874.2	55487.8
25°	3749.5	7891.3	18752.3	30797.1	42455.7	49556.3	53249.7	54686.3	55643.8	56435.9	57117.5
22.5°	6445.2	15526.5	28192.0	41626.9	49556.3	53461.0	55050.6	56120.2	57104.9	57988.0	58859.1
20°	10256.5	23142.5	37683.8	47833.6	53249.7	55050.6	56281.7	57450.7	58576.5	59871.8	61192.3
17.5°	16682.1	31108.2	44453.7	52624.6	54686.3	56120.2	57450.7	58824.1	60396.8	62789.2	65180.5
15°	22397.4	38287.3	49190.9	53823.0	55643.8	57104.9	58576.5	60396.8	63336.9	67636.7	73638.4
12.5°	27940.8	43333.8	52574.6	54874.2	56435.9	57988.0	59871.8	62789.2	67636.7	75096.1	89418.2
10°	32731.9	46514.0	53384.8	55487.8	57117.5	58859.1	61192.3	65180.5	73638.4	89418.2	112060.5
7.5°	36521.5	49036.4	54029.6	55977.1	57667.7	59675.6	62944.8	69434.6	82448.8	105152.6	151689.6
5°	39263.8	50865.7	54498.5	56334.1	58071.0	60277.6	64246.8	72760.7	90901.2	125751.0	204645.8
2.5°	40923.8	51974.8	54783.4	56551.5	58317.4	60646.9	65050.2	74829.9	96223.0	143445.3	261199.8
0°	41479.6	52346.4	54878.9	56624.5	58400.3	60771.4	65322.0	75533.0	98043.5	150980.2	282577.6
-2.5°	40923.8	51974.8	54783.4	56551.5	58317.4	60646.9	65050.2	74829.9	96223.0	143445.3	261199.8
-5°	39263.8	50865.7	54498.5	56334.1	58071.0	60277.6	64246.8	72760.7	90901.2	125751.0	204645.8
-7.5°	36521.5	49036.4	54029.6	55977.1	57667.7	59675.6	62944.8	69434.6	82448.8	105152.6	151689.6
-10°	32731.9	46514.0	53384.8	55487.8	57117.5	58859.1	61192.3	65180.5	73638.4	89418.2	112060.5
-12.5°	27940.8	43333.8	52574.6	54874.2	56435.9	57988.0	59871.8	62789.2	67636.7	75096.1	89418.2
-15°	22397.4	38287.3	49190.9	53823.0	55643.8	57104.9	58576.5	60396.8	63336.9	67636.7	73638.4
-17.5°	16682.1	31108.2	44453.7	52624.6	54686.3	56120.2	57450.7	58824.1	60396.8	62789.2	65180.5
-20°	10256.5	23142.5	37683.8	47833.6	53249.7	55050.6	56281.7	57450.7	58576.5	59871.8	61192.3



REPORT NUMBER: P699856 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-1R-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	6445.2	15526.5	28192.0	41626.9	49556.3	53461.0	55050.6	56120.2	57104.9	57988.0	58859.1
-25°	3749.5	7891.3	18752.3	30797.1	42455.7	49556.3	53249.7	54686.3	55643.8	56435.9	57117.5
-27.5°	2199.6	4807.8	9385.3	19838.7	30797.1	41626.9	47833.6	52624.6	53823.0	54874.2	55487.8
-30°	1245.8	2413.9	5163.8	9385.3	18752.3	28192.0	37683.8	44453.7	49190.9	52574.6	53384.8
-32.5°	1030.7	1350.2	2413.9	4807.8	7891.3	15526.5	23142.5	31108.2	38287.3	43333.8	46514.0
-35°	928.4	1030.7	1245.8	2199.6	3749.5	6445.2	10256.5	16682.1	22397.4	27940.8	32731.9
-37.5°	837.3	920.1	1010.1	1101.2	1776.4	2559.2	4325.3	6414.2	8364.9	12921.9	16716.8
-40°	729.4	821.1	895.4	969.3	1049.3	1154.2	1822.2	2424.8	3294.9	4768.4	5992.7
-42.5°	618.9	700.8	785.3	854.8	916.2	978.3	1041.3	1098.1	1396.7	1819.6	2170.4
-45°	533.8	592.6	653.6	727.9	797.3	851.8	900.0	943.2	988.3	1027.9	1060.7
-47.5°	463.8	505.0	553.8	602.6	653.2	712.6	766.6	813.7	848.8	878.8	903.7
-50°	420.9	435.7	472.0	505.9	545.2	583.9	619.2	656.9	696.1	729.7	757.4
-52.5°	413.3	417.3	421.0	430.4	459.6	486.4	510.7	538.4	563.8	585.6	603.5
-55°	405.7	409.4	412.8	416.1	419.0	421.8	428.0	447.9	465.4	480.3	492.5
-57.5°	263.5	347.7	404.5	407.5	410.2	412.7	415.0	417.0	418.8	420.3	421.6
-60°	138.1	150.4	217.8	285.3	347.7	403.6	405.7	407.6	409.2	410.5	411.7
-62.5°	108.8	117.8	128.3	138.1	147.1	176.7	223.5	265.1	301.5	332.5	358.0
-65°	92.9	97.9	102.7	107.1	111.3	118.8	125.5	131.5	136.7	141.1	144.8
-67.5°	83.8	86.1	88.2	90.2	93.2	96.5	99.5	102.2	104.5	106.5	108.1
-70°	70.8	74.8	78.5	81.3	83.0	84.4	85.7	86.9	87.9	88.8	89.5
-72.5°	57.5	59.3	61.3	64.3	67.1	69.6	71.9	74.0	75.7	77.2	78.5
-75°	49.4	50.8	52.2	53.5	54.7	55.8	56.8	57.6	58.4	59.0	59.6
-77.5°	41.2	42.5	43.6	44.7	45.7	46.5	47.3	48.1	48.7	49.2	49.6
-80°	33.0	34.0	34.9	35.8	36.6	37.3	37.9	38.5	39.0	39.4	39.8
-82.5°	24.8	25.5	26.2	26.9	27.4	28.0	28.5	28.9	29.3	29.6	29.8
-85°	16.5	17.0	17.5	17.9	18.3	18.7	19.0	19.3	19.5	19.7	19.9
-87.5°	8.3	8.5	8.7	9.0	9.2	9.3	9.5	9.6	9.8	9.9	9.9
-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: P699856 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-1R-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°	10.0	10.1	10.1	10.1	10.1	10.1	10.0	9.9	9.9	9.8	9.6
85°	20.0	20.1	20.2	20.2	20.2	20.1	20.0	19.9	19.7	19.5	19.3
82.5°	30.0	30.2	30.3	30.3	30.3	30.2	30.0	29.8	29.6	29.3	28.9
80°	40.1	40.2	40.4	40.4	40.4	40.2	40.1	39.8	39.4	39.0	38.5
77.5°	50.0	50.2	50.4	50.4	50.4	50.2	50.0	49.6	49.2	48.7	48.1
75°	60.0	60.3	60.4	60.5	60.4	60.3	60.0	59.6	59.0	58.4	57.6
72.5°	79.5	80.1	80.6	80.7	80.6	80.1	79.5	78.5	77.2	75.7	74.0
70°	90.1	90.5	90.7	90.8	90.7	90.5	90.1	89.5	88.8	87.9	86.9
67.5°	109.4	110.3	110.8	111.0	110.8	110.3	109.4	108.1	106.5	104.5	102.2
65°	147.6	149.7	150.9	151.3	150.9	149.7	147.6	144.8	141.1	136.7	131.5
62.5°	377.9	392.2	400.7	403.6	400.7	392.2	377.9	358.0	332.5	301.5	265.1
60°	412.6	413.2	413.6	413.7	413.6	413.2	412.6	411.7	410.5	409.2	407.6
57.5°	422.5	423.2	423.7	423.8	423.7	423.2	422.5	421.6	420.3	418.8	417.0
55°	502.2	509.1	513.2	514.6	513.2	509.1	502.2	492.5	480.3	465.4	447.9
52.5°	617.5	627.6	633.7	635.7	633.7	627.6	617.5	603.5	585.6	563.8	538.4
50°	779.1	794.7	804.1	807.2	804.1	794.7	779.1	757.4	729.7	696.1	656.9
47.5°	923.2	937.2	945.7	948.5	945.7	937.2	923.2	903.7	878.8	848.8	813.7
45°	1086.5	1105.1	1116.3	1120.0	1116.3	1105.1	1086.5	1060.7	1027.9	988.3	943.2
42.5°	2446.3	2645.0	2764.9	2805.0	2764.9	2645.0	2446.3	2170.4	1819.6	1396.7	1098.1
40°	6957.1	7652.6	8072.7	8213.2	8072.7	7652.6	6957.1	5992.7	4768.4	3294.9	2424.8
37.5°	19711.6	21874.9	23182.8	23620.4	23182.8	21874.9	19711.6	16716.8	12921.9	8364.9	6414.2
35°	36521.5	39263.8	40923.8	41479.6	40923.8	39263.8	36521.5	32731.9	27940.8	22397.4	16682.1
32.5°	49036.4	50865.7	51974.8	52346.4	51974.8	50865.7	49036.4	46514.0	43333.8	38287.3	31108.2
30°	54029.6	54498.5	54783.4	54878.9	54783.4	54498.5	54029.6	53384.8	52574.6	49190.9	44453.7
27.5°	55977.1	56334.1	56551.5	56624.5	56551.5	56334.1	55977.1	55487.8	54874.2	53823.0	52624.6
25°	57667.7	58071.0	58317.4	58400.3	58317.4	58071.0	57667.7	57117.5	56435.9	55643.8	54686.3
22.5°	59675.6	60277.6	60646.9	60771.4	60646.9	60277.6	59675.6	58859.1	57988.0	57104.9	56120.2
20°	62944.8	64246.8	65050.2	65322.0	65050.2	64246.8	62944.8	61192.3	59871.8	58576.5	57450.7
17.5°	69434.6	72760.7	74829.9	75533.0	74829.9	72760.7	69434.6	65180.5	62789.2	60396.8	58824.1
15°	82448.8	90901.2	96223.0	98043.5	96223.0	90901.2	82448.8	73638.4	67636.7	63336.9	60396.8
12.5°	105152.6	125751.0	143445.3	150980.2	143445.3	125751.0	105152.6	89418.2	75096.1	67636.7	62789.2
10°	151689.6	204645.8	261199.8	282577.6	261199.8	204645.8	151689.6	112060.5	89418.2	73638.4	65180.5
7.5°	241081.2	386317.4	551596.9	634523.2	551596.9	386317.4	241081.2	151689.6	105152.6	82448.8	69434.6
5°	386317.4	723614.4	#####	#####	#####	723614.4	386317.4	204645.8	125751.0	90901.2	72760.7
2.5°	551596.9	#####	#####	#####	#####	#####	551596.9	261199.8	143445.3	96223.0	74829.9
0°	634523.2	#####	#####	#####	#####	#####	634523.2	282577.6	150980.2	98043.5	75533.0
-2.5°	551596.9	#####	#####	#####	#####	#####	551596.9	261199.8	143445.3	96223.0	74829.9
-5°	386317.4	723614.4	#####	#####	#####	723614.4	386317.4	204645.8	125751.0	90901.2	72760.7
-7.5°	241081.2	386317.4	551596.9	634523.2	551596.9	386317.4	241081.2	151689.6	105152.6	82448.8	69434.6
-10°	151689.6	204645.8	261199.8	282577.6	261199.8	204645.8	151689.6	112060.5	89418.2	73638.4	65180.5
-12.5°	105152.6	125751.0	143445.3	150980.2	143445.3	125751.0	105152.6	89418.2	75096.1	67636.7	62789.2
-15°	82448.8	90901.2	96223.0	98043.5	96223.0	90901.2	82448.8	73638.4	67636.7	63336.9	60396.8
-17.5°	69434.6	72760.7	74829.9	75533.0	74829.9	72760.7	69434.6	65180.5	62789.2	60396.8	58824.1
-20°	62944.8	64246.8	65050.2	65322.0	65050.2	64246.8	62944.8	61192.3	59871.8	58576.5	57450.7



REPORT NUMBER: P699856 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-1R-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	59675.6	60277.6	60646.9	60771.4	60646.9	60277.6	59675.6	58859.1	57988.0	57104.9	56120.2
-25°	57667.7	58071.0	58317.4	58400.3	58317.4	58071.0	57667.7	57117.5	56435.9	55643.8	54686.3
-27.5°	55977.1	56334.1	56551.5	56624.5	56551.5	56334.1	55977.1	55487.8	54874.2	53823.0	52624.6
-30°	54029.6	54498.5	54783.4	54878.9	54783.4	54498.5	54029.6	53384.8	52574.6	49190.9	44453.7
-32.5°	49036.4	50865.7	51974.8	52346.4	51974.8	50865.7	49036.4	46514.0	43333.8	38287.3	31108.2
-35°	36521.5	39263.8	40923.8	41479.6	40923.8	39263.8	36521.5	32731.9	27940.8	22397.4	16682.1
-37.5°	19711.6	21874.9	23182.8	23620.4	23182.8	21874.9	19711.6	16716.8	12921.9	8364.9	6414.2
-40°	6957.1	7652.6	8072.7	8213.2	8072.7	7652.6	6957.1	5992.7	4768.4	3294.9	2424.8
-42.5°	2446.3	2645.0	2764.9	2805.0	2764.9	2645.0	2446.3	2170.4	1819.6	1396.7	1098.1
-45°	1086.5	1105.1	1116.3	1120.0	1116.3	1105.1	1086.5	1060.7	1027.9	988.3	943.2
-47.5°	923.2	937.2	945.7	948.5	945.7	937.2	923.2	903.7	878.8	848.8	813.7
-50°	779.1	794.7	804.1	807.2	804.1	794.7	779.1	757.4	729.7	696.1	656.9
-52.5°	617.5	627.6	633.7	635.7	633.7	627.6	617.5	603.5	585.6	563.8	538.4
-55°	502.2	509.1	513.2	514.6	513.2	509.1	502.2	492.5	480.3	465.4	447.9
-57.5°	422.5	423.2	423.7	423.8	423.7	423.2	422.5	421.6	420.3	418.8	417.0
-60°	412.6	413.2	413.6	413.7	413.6	413.2	412.6	411.7	410.5	409.2	407.6
-62.5°	377.9	392.2	400.7	403.6	400.7	392.2	377.9	358.0	332.5	301.5	265.1
-65°	147.6	149.7	150.9	151.3	150.9	149.7	147.6	144.8	141.1	136.7	131.5
-67.5°	109.4	110.3	110.8	111.0	110.8	110.3	109.4	108.1	106.5	104.5	102.2
-70°	90.1	90.5	90.7	90.8	90.7	90.5	90.1	89.5	88.8	87.9	86.9
-72.5°	79.5	80.1	80.6	80.7	80.6	80.1	79.5	78.5	77.2	75.7	74.0
-75°	60.0	60.3	60.4	60.5	60.4	60.3	60.0	59.6	59.0	58.4	57.6
-77.5°	50.0	50.2	50.4	50.4	50.4	50.2	50.0	49.6	49.2	48.7	48.1
-80°	40.1	40.2	40.4	40.4	40.4	40.2	40.1	39.8	39.4	39.0	38.5
-82.5°	30.0	30.2	30.3	30.3	30.3	30.2	30.0	29.8	29.6	29.3	28.9
-85°	20.0	20.1	20.2	20.2	20.2	20.1	20.0	19.9	19.7	19.5	19.3
-87.5°	10.0	10.1	10.1	10.1	10.1	10.1	10.0	9.9	9.9	9.8	9.6
-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: P699856 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-1R-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°	9.5	9.3	9.2	9.0	8.7	8.5	8.3	8.0	7.7	7.4	7.1
85°	19.0	18.7	18.3	17.9	17.5	17.0	16.5	16.0	15.5	14.9	14.3
82.5°	28.5	28.0	27.4	26.9	26.2	25.5	24.8	24.0	23.2	22.3	21.4
80°	37.9	37.3	36.6	35.8	34.9	34.0	33.0	32.0	30.9	29.7	28.5
77.5°	47.3	46.5	45.7	44.7	43.6	42.5	41.2	39.9	38.6	37.1	35.6
75°	56.8	55.8	54.7	53.5	52.2	50.8	49.4	47.8	46.1	44.4	42.6
72.5°	71.9	69.6	67.1	64.3	61.3	59.3	57.5	55.7	53.7	51.6	49.5
70°	85.7	84.4	83.0	81.3	78.5	74.8	70.8	66.5	62.0	58.9	56.4
67.5°	99.5	96.5	93.2	90.2	88.2	86.1	83.8	81.4	77.0	71.7	66.2
65°	125.5	118.8	111.3	107.1	102.7	97.9	92.9	89.1	86.3	83.3	79.8
62.5°	223.5	176.7	147.1	138.1	128.3	117.8	108.8	102.8	96.6	90.4	87.0
60°	405.7	403.6	347.7	285.3	217.8	150.4	138.1	125.0	111.3	104.0	96.5
57.5°	415.0	412.7	410.2	407.5	404.5	347.7	263.5	174.6	140.1	124.5	109.6
55°	428.0	421.8	419.0	416.1	412.8	409.4	405.7	360.0	258.7	153.0	134.0
52.5°	510.7	486.4	459.6	430.4	421.0	417.3	413.3	409.2	404.8	319.7	201.4
50°	619.2	583.9	545.2	505.9	472.0	435.7	420.9	416.4	411.7	406.8	356.6
47.5°	766.6	712.6	653.2	602.6	553.8	505.0	463.8	423.4	418.4	413.2	407.8
45°	900.0	851.8	797.3	727.9	653.6	592.6	533.8	482.8	434.6	419.4	413.7
42.5°	1041.3	978.3	916.2	854.8	785.3	700.8	618.9	553.2	492.4	439.3	419.4
40°	1822.2	1154.2	1049.3	969.3	895.4	821.1	729.4	632.1	559.7	492.4	434.6
37.5°	4325.3	2559.2	1776.4	1101.2	1010.1	920.1	837.3	739.1	632.1	553.2	482.8
35°	10256.5	6445.2	3749.5	2199.6	1245.8	1030.7	928.4	837.3	729.4	618.9	533.8
32.5°	23142.5	15526.5	7891.3	4807.8	2413.9	1350.2	1030.7	920.1	821.1	700.8	592.6
30°	37683.8	28192.0	18752.3	9385.3	5163.8	2413.9	1245.8	1010.1	895.4	785.3	653.6
27.5°	47833.6	41626.9	30797.1	19838.7	9385.3	4807.8	2199.6	1101.2	969.3	854.8	727.9
25°	53249.7	49556.3	42455.7	30797.1	18752.3	7891.3	3749.5	1776.4	1049.3	916.2	797.3
22.5°	55050.6	53461.0	49556.3	41626.9	28192.0	15526.5	6445.2	2559.2	1154.2	978.3	851.8
20°	56281.7	55050.6	53249.7	47833.6	37683.8	23142.5	10256.5	4325.3	1822.2	1041.3	900.0
17.5°	57450.7	56120.2	54686.3	52624.6	44453.7	31108.2	16682.1	6414.2	2424.8	1098.1	943.2
15°	58576.5	57104.9	55643.8	53823.0	49190.9	38287.3	22397.4	8364.9	3294.9	1396.7	988.3
12.5°	59871.8	57988.0	56435.9	54874.2	52574.6	43333.8	27940.8	12921.9	4768.4	1819.6	1027.9
10°	61192.3	58859.1	57117.5	55487.8	53384.8	46514.0	32731.9	16716.8	5992.7	2170.4	1060.7
7.5°	62944.8	59675.6	57667.7	55977.1	54029.6	49036.4	36521.5	19711.6	6957.1	2446.3	1086.5
5°	64246.8	60277.6	58071.0	56334.1	54498.5	50865.7	39263.8	21874.9	7652.6	2645.0	1105.1
2.5°	65050.2	60646.9	58317.4	56551.5	54783.4	51974.8	40923.8	23182.8	8072.7	2764.9	1116.3
0°	65322.0	60771.4	58400.3	56624.5	54878.9	52346.4	41479.6	23620.4	8213.2	2805.0	1120.0
-2.5°	65050.2	60646.9	58317.4	56551.5	54783.4	51974.8	40923.8	23182.8	8072.7	2764.9	1116.3
-5°	64246.8	60277.6	58071.0	56334.1	54498.5	50865.7	39263.8	21874.9	7652.6	2645.0	1105.1
-7.5°	62944.8	59675.6	57667.7	55977.1	54029.6	49036.4	36521.5	19711.6	6957.1	2446.3	1086.5
-10°	61192.3	58859.1	57117.5	55487.8	53384.8	46514.0	32731.9	16716.8	5992.7	2170.4	1060.7
-12.5°	59871.8	57988.0	56435.9	54874.2	52574.6	43333.8	27940.8	12921.9	4768.4	1819.6	1027.9
-15°	58576.5	57104.9	55643.8	53823.0	49190.9	38287.3	22397.4	8364.9	3294.9	1396.7	988.3
-17.5°	57450.7	56120.2	54686.3	52624.6	44453.7	31108.2	16682.1	6414.2	2424.8	1098.1	943.2
-20°	56281.7	55050.6	53249.7	47833.6	37683.8	23142.5	10256.5	4325.3	1822.2	1041.3	900.0



REPORT NUMBER: P699856 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-1R-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	55050.6	53461.0	49556.3	41626.9	28192.0	15526.5	6445.2	2559.2	1154.2	978.3	851.8
-25°	53249.7	49556.3	42455.7	30797.1	18752.3	7891.3	3749.5	1776.4	1049.3	916.2	797.3
-27.5°	47833.6	41626.9	30797.1	19838.7	9385.3	4807.8	2199.6	1101.2	969.3	854.8	727.9
-30°	37683.8	28192.0	18752.3	9385.3	5163.8	2413.9	1245.8	1010.1	895.4	785.3	653.6
-32.5°	23142.5	15526.5	7891.3	4807.8	2413.9	1350.2	1030.7	920.1	821.1	700.8	592.6
-35°	10256.5	6445.2	3749.5	2199.6	1245.8	1030.7	928.4	837.3	729.4	618.9	533.8
-37.5°	4325.3	2559.2	1776.4	1101.2	1010.1	920.1	837.3	739.1	632.1	553.2	482.8
-40°	1822.2	1154.2	1049.3	969.3	895.4	821.1	729.4	632.1	559.7	492.4	434.6
-42.5°	1041.3	978.3	916.2	854.8	785.3	700.8	618.9	553.2	492.4	439.3	419.4
-45°	900.0	851.8	797.3	727.9	653.6	592.6	533.8	482.8	434.6	419.4	413.7
-47.5°	766.6	712.6	653.2	602.6	553.8	505.0	463.8	423.4	418.4	413.2	407.8
-50°	619.2	583.9	545.2	505.9	472.0	435.7	420.9	416.4	411.7	406.8	356.6
-52.5°	510.7	486.4	459.6	430.4	421.0	417.3	413.3	409.2	404.8	319.7	201.4
-55°	428.0	421.8	419.0	416.1	412.8	409.4	405.7	360.0	258.7	153.0	134.0
-57.5°	415.0	412.7	410.2	407.5	404.5	347.7	263.5	174.6	140.1	124.5	109.6
-60°	405.7	403.6	347.7	285.3	217.8	150.4	138.1	125.0	111.3	104.0	96.5
-62.5°	223.5	176.7	147.1	138.1	128.3	117.8	108.8	102.8	96.6	90.4	87.0
-65°	125.5	118.8	111.3	107.1	102.7	97.9	92.9	89.1	86.3	83.3	79.8
-67.5°	99.5	96.5	93.2	90.2	88.2	86.1	83.8	81.4	77.0	71.7	66.2
-70°	85.7	84.4	83.0	81.3	78.5	74.8	70.8	66.5	62.0	58.9	56.4
-72.5°	71.9	69.6	67.1	64.3	61.3	59.3	57.5	55.7	53.7	51.6	49.5
-75°	56.8	55.8	54.7	53.5	52.2	50.8	49.4	47.8	46.1	44.4	42.6
-77.5°	47.3	46.5	45.7	44.7	43.6	42.5	41.2	39.9	38.6	37.1	35.6
-80°	37.9	37.3	36.6	35.8	34.9	34.0	33.0	32.0	30.9	29.7	28.5
-82.5°	28.5	28.0	27.4	26.9	26.2	25.5	24.8	24.0	23.2	22.3	21.4
-85°	19.0	18.7	18.3	17.9	17.5	17.0	16.5	16.0	15.5	14.9	14.3
-87.5°	9.5	9.3	9.2	9.0	8.7	8.5	8.3	8.0	7.7	7.4	7.1
-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: P699856 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-1R-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°	6.8	6.5	6.1	5.8	5.4	5.0	4.7	4.3	3.9	3.5	3.0
85°	13.6	13.0	12.3	11.6	10.8	10.1	9.3	8.5	7.7	6.9	6.1
82.5°	20.4	19.4	18.4	17.3	16.2	15.1	14.0	12.8	11.6	10.3	9.1
80°	27.2	25.9	24.5	23.1	21.6	20.1	18.6	17.0	15.4	13.8	12.1
77.5°	34.0	32.3	30.6	28.8	27.0	25.1	23.2	21.2	19.2	17.2	15.1
75°	40.7	38.7	36.6	34.5	32.3	30.0	27.7	25.4	23.0	20.5	18.0
72.5°	47.3	45.0	42.6	40.1	37.6	34.9	32.2	29.5	26.7	23.8	21.0
70°	53.9	51.2	48.5	45.7	42.8	39.8	36.7	33.6	30.4	27.1	23.8
67.5°	60.4	57.4	54.3	51.1	47.9	44.5	41.1	37.6	34.0	30.4	26.7
65°	73.3	66.7	60.1	56.6	52.9	49.2	45.4	41.6	37.6	33.6	29.5
62.5°	83.4	78.8	71.2	63.4	57.9	53.8	49.6	45.4	41.1	36.7	32.2
60°	89.8	85.7	81.6	74.0	65.2	58.4	53.8	49.2	44.5	39.8	34.9
57.5°	101.2	92.5	87.1	82.5	74.9	65.2	57.9	52.9	47.9	42.8	37.6
55°	115.8	104.0	94.3	87.6	82.5	74.0	63.4	56.6	51.1	45.7	40.1
52.5°	139.8	119.6	105.0	94.3	87.1	81.6	71.2	60.1	54.3	48.5	42.6
50°	225.8	141.7	119.6	104.0	92.5	85.7	78.8	66.7	57.4	51.2	45.0
47.5°	368.9	225.8	139.8	115.8	101.2	89.8	83.4	73.3	60.4	53.9	47.3
45°	407.8	356.6	201.4	134.0	109.6	96.5	87.0	79.8	66.2	56.4	49.5
42.5°	413.2	406.8	319.7	153.0	124.5	104.0	90.4	83.3	71.7	58.9	51.6
40°	418.4	411.7	404.8	258.7	140.1	111.3	96.6	86.3	77.0	62.0	53.7
37.5°	423.4	416.4	409.2	360.0	174.6	125.0	102.8	89.1	81.4	66.5	55.7
35°	463.8	420.9	413.3	405.7	263.5	138.1	108.8	92.9	83.8	70.8	57.5
32.5°	505.0	435.7	417.3	409.4	347.7	150.4	117.8	97.9	86.1	74.8	59.3
30°	553.8	472.0	421.0	412.8	404.5	217.8	128.3	102.7	88.2	78.5	61.3
27.5°	602.6	505.9	430.4	416.1	407.5	285.3	138.1	107.1	90.2	81.3	64.3
25°	653.2	545.2	459.6	419.0	410.2	347.7	147.1	111.3	93.2	83.0	67.1
22.5°	712.6	583.9	486.4	421.8	412.7	403.6	176.7	118.8	96.5	84.4	69.6
20°	766.6	619.2	510.7	428.0	415.0	405.7	223.5	125.5	99.5	85.7	71.9
17.5°	813.7	656.9	538.4	447.9	417.0	407.6	265.1	131.5	102.2	86.9	74.0
15°	848.8	696.1	563.8	465.4	418.8	409.2	301.5	136.7	104.5	87.9	75.7
12.5°	878.8	729.7	585.6	480.3	420.3	410.5	332.5	141.1	106.5	88.8	77.2
10°	903.7	757.4	603.5	492.5	421.6	411.7	358.0	144.8	108.1	89.5	78.5
7.5°	923.2	779.1	617.5	502.2	422.5	412.6	377.9	147.6	109.4	90.1	79.5
5°	937.2	794.7	627.6	509.1	423.2	413.2	392.2	149.7	110.3	90.5	80.1
2.5°	945.7	804.1	633.7	513.2	423.7	413.6	400.7	150.9	110.8	90.7	80.6
0°	948.5	807.2	635.7	514.6	423.8	413.7	403.6	151.3	111.0	90.8	80.7
-2.5°	945.7	804.1	633.7	513.2	423.7	413.6	400.7	150.9	110.8	90.7	80.6
-5°	937.2	794.7	627.6	509.1	423.2	413.2	392.2	149.7	110.3	90.5	80.1
-7.5°	923.2	779.1	617.5	502.2	422.5	412.6	377.9	147.6	109.4	90.1	79.5
-10°	903.7	757.4	603.5	492.5	421.6	411.7	358.0	144.8	108.1	89.5	78.5
-12.5°	878.8	729.7	585.6	480.3	420.3	410.5	332.5	141.1	106.5	88.8	77.2
-15°	848.8	696.1	563.8	465.4	418.8	409.2	301.5	136.7	104.5	87.9	75.7
-17.5°	813.7	656.9	538.4	447.9	417.0	407.6	265.1	131.5	102.2	86.9	74.0
-20°	766.6	619.2	510.7	428.0	415.0	405.7	223.5	125.5	99.5	85.7	71.9



REPORT NUMBER: P699856 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-1R-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	712.6	583.9	486.4	421.8	412.7	403.6	176.7	118.8	96.5	84.4	69.6
-25°	653.2	545.2	459.6	419.0	410.2	347.7	147.1	111.3	93.2	83.0	67.1
-27.5°	602.6	505.9	430.4	416.1	407.5	285.3	138.1	107.1	90.2	81.3	64.3
-30°	553.8	472.0	421.0	412.8	404.5	217.8	128.3	102.7	88.2	78.5	61.3
-32.5°	505.0	435.7	417.3	409.4	347.7	150.4	117.8	97.9	86.1	74.8	59.3
-35°	463.8	420.9	413.3	405.7	263.5	138.1	108.8	92.9	83.8	70.8	57.5
-37.5°	423.4	416.4	409.2	360.0	174.6	125.0	102.8	89.1	81.4	66.5	55.7
-40°	418.4	411.7	404.8	258.7	140.1	111.3	96.6	86.3	77.0	62.0	53.7
-42.5°	413.2	406.8	319.7	153.0	124.5	104.0	90.4	83.3	71.7	58.9	51.6
-45°	407.8	356.6	201.4	134.0	109.6	96.5	87.0	79.8	66.2	56.4	49.5
-47.5°	368.9	225.8	139.8	115.8	101.2	89.8	83.4	73.3	60.4	53.9	47.3
-50°	225.8	141.7	119.6	104.0	92.5	85.7	78.8	66.7	57.4	51.2	45.0
-52.5°	139.8	119.6	105.0	94.3	87.1	81.6	71.2	60.1	54.3	48.5	42.6
-55°	115.8	104.0	94.3	87.6	82.5	74.0	63.4	56.6	51.1	45.7	40.1
-57.5°	101.2	92.5	87.1	82.5	74.9	65.2	57.9	52.9	47.9	42.8	37.6
-60°	89.8	85.7	81.6	74.0	65.2	58.4	53.8	49.2	44.5	39.8	34.9
-62.5°	83.4	78.8	71.2	63.4	57.9	53.8	49.6	45.4	41.1	36.7	32.2
-65°	73.3	66.7	60.1	56.6	52.9	49.2	45.4	41.6	37.6	33.6	29.5
-67.5°	60.4	57.4	54.3	51.1	47.9	44.5	41.1	37.6	34.0	30.4	26.7
-70°	53.9	51.2	48.5	45.7	42.8	39.8	36.7	33.6	30.4	27.1	23.8
-72.5°	47.3	45.0	42.6	40.1	37.6	34.9	32.2	29.5	26.7	23.8	21.0
-75°	40.7	38.7	36.6	34.5	32.3	30.0	27.7	25.4	23.0	20.5	18.0
-77.5°	34.0	32.3	30.6	28.8	27.0	25.1	23.2	21.2	19.2	17.2	15.1
-80°	27.2	25.9	24.5	23.1	21.6	20.1	18.6	17.0	15.4	13.8	12.1
-82.5°	20.4	19.4	18.4	17.3	16.2	15.1	14.0	12.8	11.6	10.3	9.1
-85°	13.6	13.0	12.3	11.6	10.8	10.1	9.3	8.5	7.7	6.9	6.1
-87.5°	6.8	6.5	6.1	5.8	5.4	5.0	4.7	4.3	3.9	3.5	3.0
-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: P699856 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-1R-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°	2.6	2.2	1.8	1.3	0.9	0.4	0.0
85°	5.2	4.4	3.5	2.6	1.8	0.9	0.0
82.5°	7.8	6.5	5.2	3.9	2.6	1.3	0.0
80°	10.4	8.7	7.0	5.2	3.5	1.8	0.0
77.5°	13.0	10.8	8.7	6.5	4.4	2.2	0.0
75°	15.5	13.0	10.4	7.8	5.2	2.6	0.0
72.5°	18.0	15.1	12.1	9.1	6.1	3.0	0.0
70°	20.5	17.2	13.8	10.3	6.9	3.5	0.0
67.5°	23.0	19.2	15.4	11.6	7.7	3.9	0.0
65°	25.4	21.2	17.0	12.8	8.5	4.3	0.0
62.5°	27.7	23.2	18.6	14.0	9.3	4.7	0.0
60°	30.0	25.1	20.1	15.1	10.1	5.0	0.0
57.5°	32.3	27.0	21.6	16.2	10.8	5.4	0.0
55°	34.5	28.8	23.1	17.3	11.6	5.8	0.0
52.5°	36.6	30.6	24.5	18.4	12.3	6.1	0.0
50°	38.7	32.3	25.9	19.4	13.0	6.5	0.0
47.5°	40.7	34.0	27.2	20.4	13.6	6.8	0.0
45°	42.6	35.6	28.5	21.4	14.3	7.1	0.0
42.5°	44.4	37.1	29.7	22.3	14.9	7.4	0.0
40°	46.1	38.6	30.9	23.2	15.5	7.7	0.0
37.5°	47.8	39.9	32.0	24.0	16.0	8.0	0.0
35°	49.4	41.2	33.0	24.8	16.5	8.3	0.0
32.5°	50.8	42.5	34.0	25.5	17.0	8.5	0.0
30°	52.2	43.6	34.9	26.2	17.5	8.7	0.0
27.5°	53.5	44.7	35.8	26.9	17.9	9.0	0.0
25°	54.7	45.7	36.6	27.4	18.3	9.2	0.0
22.5°	55.8	46.5	37.3	28.0	18.7	9.3	0.0
20°	56.8	47.3	37.9	28.5	19.0	9.5	0.0
17.5°	57.6	48.1	38.5	28.9	19.3	9.6	0.0
15°	58.4	48.7	39.0	29.3	19.5	9.8	0.0
12.5°	59.0	49.2	39.4	29.6	19.7	9.9	0.0
10°	59.6	49.6	39.8	29.8	19.9	9.9	0.0
7.5°	60.0	50.0	40.1	30.0	20.0	10.0	0.0
5°	60.3	50.2	40.2	30.2	20.1	10.1	0.0
2.5°	60.4	50.4	40.4	30.3	20.2	10.1	0.0
0°	60.5	50.4	40.4	30.3	20.2	10.1	0.0
-2.5°	60.4	50.4	40.4	30.3	20.2	10.1	0.0
-5°	60.3	50.2	40.2	30.2	20.1	10.1	0.0
-7.5°	60.0	50.0	40.1	30.0	20.0	10.0	0.0
-10°	59.6	49.6	39.8	29.8	19.9	9.9	0.0
-12.5°	59.0	49.2	39.4	29.6	19.7	9.9	0.0
-15°	58.4	48.7	39.0	29.3	19.5	9.8	0.0
-17.5°	57.6	48.1	38.5	28.9	19.3	9.6	0.0
-20°	56.8	47.3	37.9	28.5	19.0	9.5	0.0



REPORT NUMBER: P699856 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-1R-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	55.8	46.5	37.3	28.0	18.7	9.3	0.0
-25°	54.7	45.7	36.6	27.4	18.3	9.2	0.0
-27.5°	53.5	44.7	35.8	26.9	17.9	9.0	0.0
-30°	52.2	43.6	34.9	26.2	17.5	8.7	0.0
-32.5°	50.8	42.5	34.0	25.5	17.0	8.5	0.0
-35°	49.4	41.2	33.0	24.8	16.5	8.3	0.0
-37.5°	47.8	39.9	32.0	24.0	16.0	8.0	0.0
-40°	46.1	38.6	30.9	23.2	15.5	7.7	0.0
-42.5°	44.4	37.1	29.7	22.3	14.9	7.4	0.0
-45°	42.6	35.6	28.5	21.4	14.3	7.1	0.0
-47.5°	40.7	34.0	27.2	20.4	13.6	6.8	0.0
-50°	38.7	32.3	25.9	19.4	13.0	6.5	0.0
-52.5°	36.6	30.6	24.5	18.4	12.3	6.1	0.0
-55°	34.5	28.8	23.1	17.3	11.6	5.8	0.0
-57.5°	32.3	27.0	21.6	16.2	10.8	5.4	0.0
-60°	30.0	25.1	20.1	15.1	10.1	5.0	0.0
-62.5°	27.7	23.2	18.6	14.0	9.3	4.7	0.0
-65°	25.4	21.2	17.0	12.8	8.5	4.3	0.0
-67.5°	23.0	19.2	15.4	11.6	7.7	3.9	0.0
-70°	20.5	17.2	13.8	10.3	6.9	3.5	0.0
-72.5°	18.0	15.1	12.1	9.1	6.1	3.0	0.0
-75°	15.5	13.0	10.4	7.8	5.2	2.6	0.0
-77.5°	13.0	10.8	8.7	6.5	4.4	2.2	0.0
-80°	10.4	8.7	7.0	5.2	3.5	1.8	0.0
-82.5°	7.8	6.5	5.2	3.9	2.6	1.3	0.0
-85°	5.2	4.4	3.5	2.6	1.8	0.9	0.0
-87.5°	2.6	2.2	1.8	1.3	0.9	0.4	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)