

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: P699860 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200L-40-70-3L-S**

Issue Date: 8/10/2023

Test Information

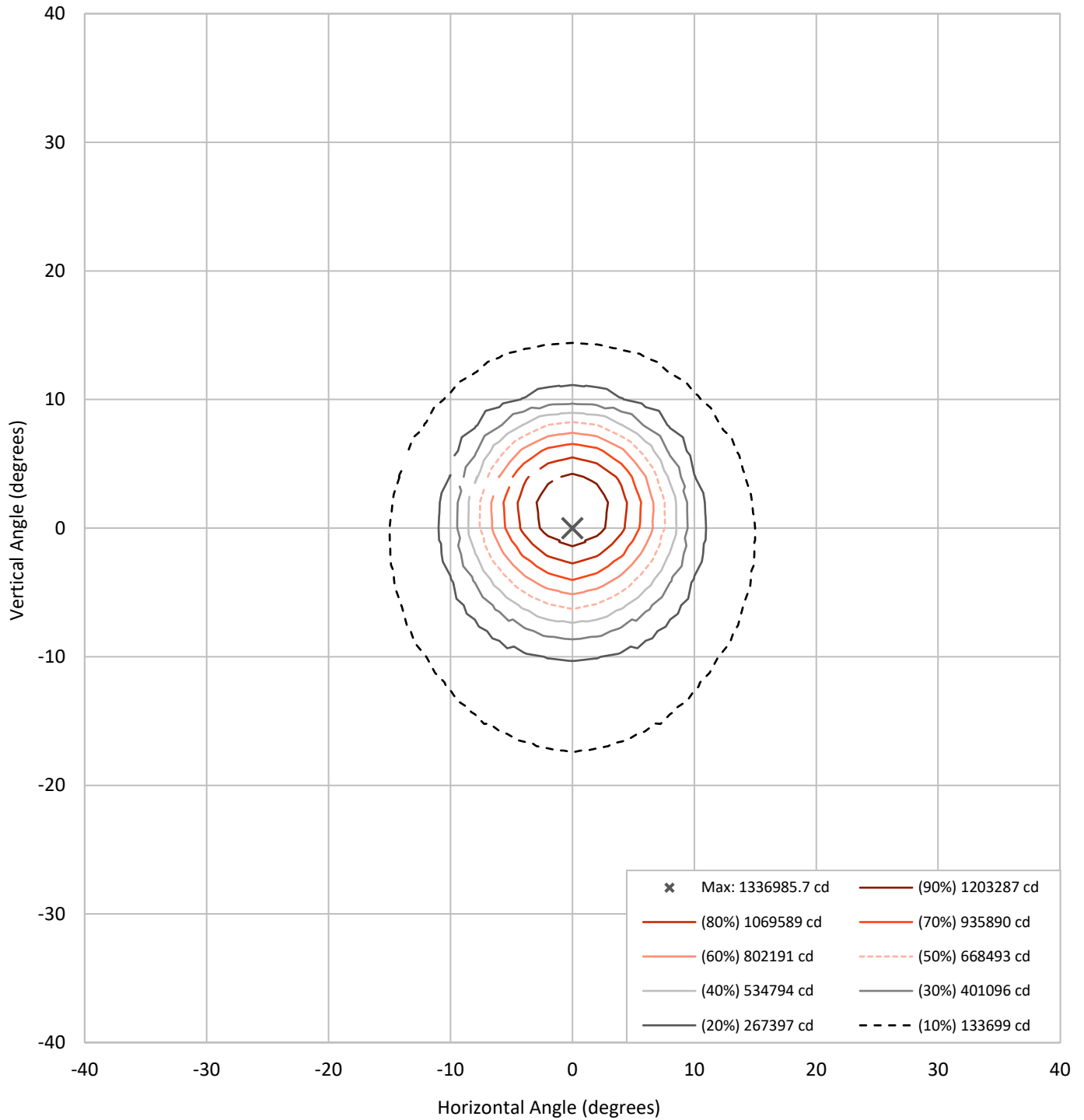
Test Method: LM-79-08
Report Number: P699860 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-54)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200L-40-70-3L-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 4000K, 70 CRI LEDS AND 3L BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	175162.5 lumens	Max Intensity:	1336985.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	139.5 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	15.2°H x 14.5°V	Field Angle (10%):	29.6°H x 31.5°V
Beam Lumens:	48837.7 lumens	Field Lumens:	97463.6 lumens
Beam Efficiency:	27.9%	Field Efficiency:	55.6%
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



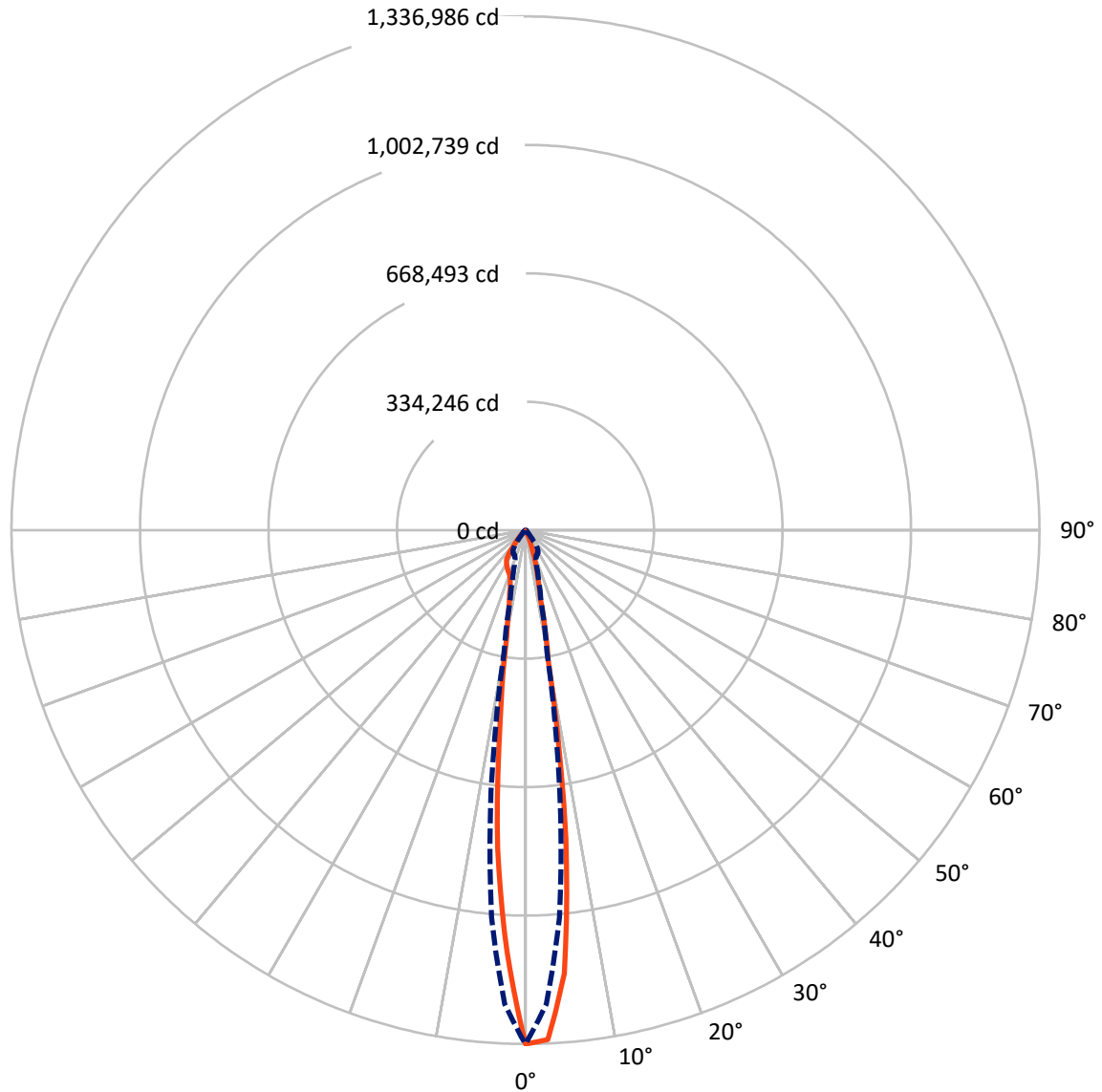
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Lumen Table

90	0.3	1.4		2.4		3.5		3.8		3.5		2.4		1.4		0.3
80	0.3	1.4		2.4		3.5		3.8		3.5		2.4		1.4		0.3
70	0.6	0.5	0.7	1.2	1.9	2.6	3.3	3.8	3.8	3.3	2.6	1.9	1.2	0.7	0.5	0.6
60		0.6	1.1	2.2	3.9	6.8	13.1	27.5	27.5	13.1	6.8	3.9	2.2	1.1	0.6	
50	0.8	0.8	1.9	4.8	10.1	17.3	25.1	36.5	36.5	25.1	17.3	10.1	4.8	1.9	0.8	0.8
40		1.0	3.6	9.9	19.0	30.6	48.3	67.7	67.7	48.3	30.6	19.0	9.9	3.6	1.0	
30	0.9	1.5	6.2	18.3	68.6	247.9	423.2	549.1	549.1	423.2	247.9	68.6	18.3	6.2	1.5	0.9
20		1.9	10.2	46.7	410.3	1102.1	1829.0	3575.3	3575.3	1829.0	1102.1	410.3	46.7	10.2	1.9	
10	1.0	2.3	15.8	115.5	922.8	1766.6	3743.0	21704.4	21704.4	3743.0	1766.6	922.8	115.5	15.8	2.3	1.0
0		2.6	21.0	174.3	1218.5	2131.8	3989.0	17434.2	17434.2	3989.0	2131.8	1218.5	174.3	21.0	2.6	
-10	1.0	2.5	18.4	153.2	1069.6	2419.8	3138.3	4591.6	4591.6	3138.3	2419.8	1069.6	153.2	18.4	2.5	1.0
-20		1.9	11.4	78.3	543.9	1960.7	2918.9	3262.5	3262.5	2918.9	1960.7	543.9	78.3	11.4	1.9	
-30	0.8	1.3	6.2	25.1	162.6	691.8	1522.4	2069.1	2069.1	1522.4	691.8	162.6	25.1	6.2	1.3	0.8
-40		0.8	3.1	8.5	29.6	126.7	301.5	440.6	440.6	301.5	126.7	29.6	8.5	3.1	0.8	
-50	0.6	0.6	1.4	3.6	7.0	13.4	29.1	43.1	43.1	29.1	13.4	7.0	3.6	1.4	0.6	0.6
-60		0.4	0.8	1.5	2.5	3.9	5.3	5.9	5.9	5.3	3.9	2.5	1.5	0.8	0.4	
-70	0.3	0.3	1.3	2.3	3.3	3.3	3.7	3.3	3.3	3.3	2.3	1.3	0.3	0.3	0.3	
-80		0.3	1.3	2.3	3.3	3.3	3.7	3.3	3.3	3.3	2.3	1.3	0.3	0.3		
-90	0.3	1.3		2.3		3.3		3.7		3.3		2.3		1.3		0.3

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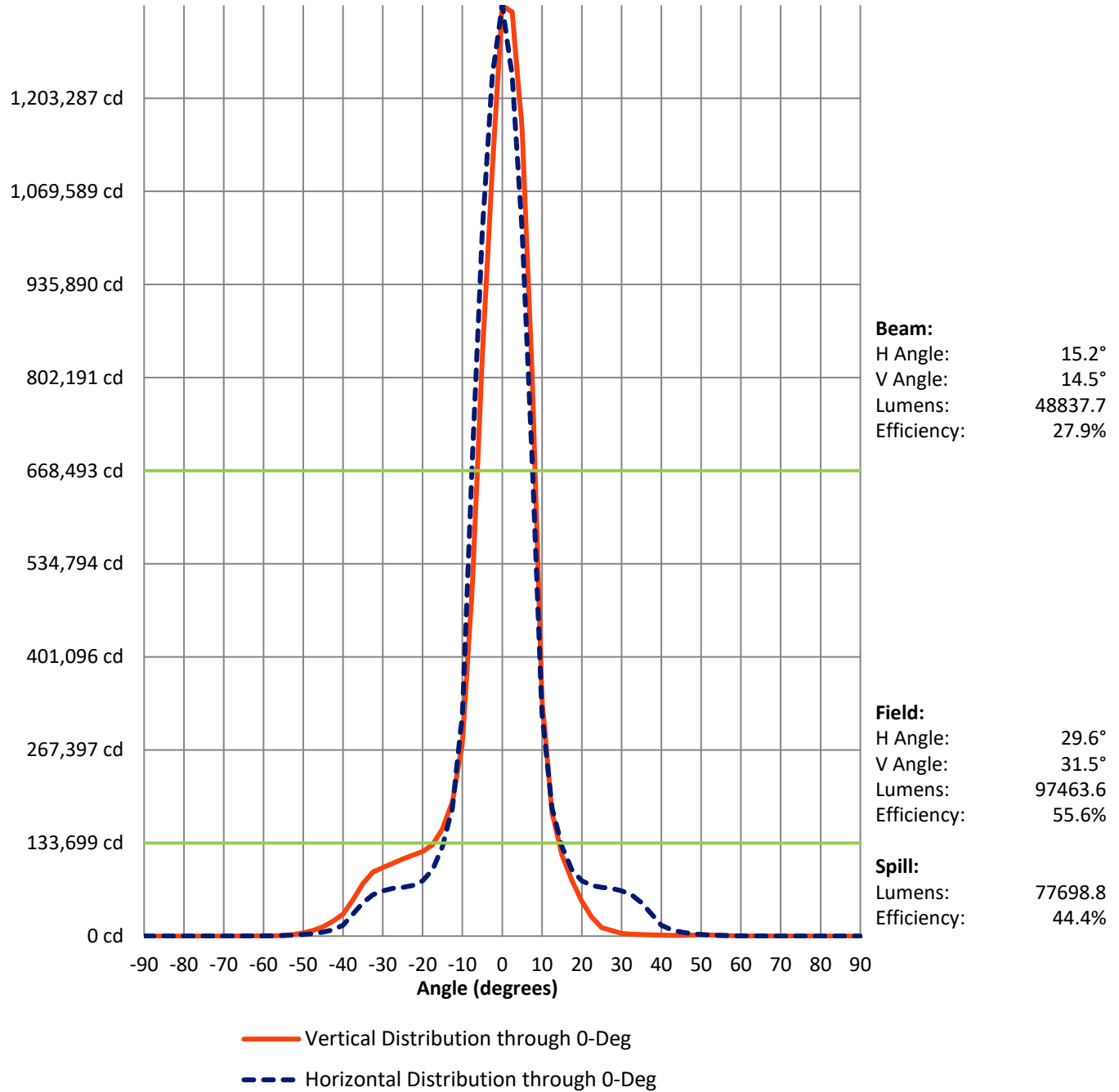
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot





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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	0.9	1.8	2.6	3.5	4.4	5.2	6.1	6.9	7.7	8.5
85°	0.0	1.8	3.5	5.3	7.0	8.7	10.4	12.1	13.8	15.4	17.1
82.5°	0.0	2.6	5.3	7.9	10.5	13.1	15.6	18.2	20.4	21.7	22.9
80°	0.0	3.5	7.0	10.5	14.0	17.4	20.5	22.2	23.9	25.5	27.1
77.5°	0.0	4.4	8.7	13.1	17.4	20.9	23.1	25.2	27.3	29.3	30.3
75°	0.0	5.2	10.4	15.6	20.5	23.1	25.6	28.1	30.3	30.3	30.3
72.5°	0.0	6.1	12.1	18.2	22.2	25.2	28.1	30.3	30.3	30.3	30.3
70°	0.0	6.9	13.8	20.4	23.9	27.3	30.3	30.3	30.3	30.4	33.6
67.5°	0.0	7.7	15.4	21.7	25.5	29.3	30.3	30.3	30.4	34.0	37.6
65°	0.0	8.5	17.1	22.9	27.1	30.3	30.3	30.3	33.6	37.6	40.4
62.5°	0.0	9.3	18.6	24.1	28.7	30.3	30.3	32.2	36.7	40.4	40.4
60°	0.0	10.1	20.2	25.2	30.2	30.3	30.3	34.9	39.8	40.4	40.4
57.5°	0.0	10.9	20.9	26.3	30.3	30.3	32.3	37.6	40.4	40.4	42.9
55°	0.0	11.6	21.7	27.4	30.3	30.3	34.5	40.1	40.4	41.1	46.5
52.5°	0.0	12.3	22.4	28.5	30.3	30.6	36.6	40.4	40.4	44.3	50.0
50°	0.0	13.0	23.1	29.5	30.3	32.3	38.7	40.4	41.2	47.4	52.0
47.5°	0.0	13.6	23.7	30.3	30.3	34.0	40.4	40.4	43.8	50.3	54.3
45°	0.0	14.3	24.4	30.3	30.3	35.6	40.4	40.4	46.4	52.9	56.9
42.5°	0.0	14.9	25.0	30.3	30.3	37.1	40.4	41.6	48.8	55.7	61.3
40°	0.0	15.5	25.6	30.3	30.9	38.6	40.4	43.7	51.2	58.7	65.4
37.5°	0.0	16.0	26.1	30.3	32.0	39.9	40.4	45.6	53.4	61.2	68.8
35°	0.0	16.5	26.6	30.3	33.0	40.4	40.4	47.4	55.5	63.6	72.7
32.5°	0.0	17.0	27.1	30.3	34.0	40.4	40.8	49.2	57.5	65.9	78.1
30°	0.0	17.5	27.6	30.3	34.9	40.4	42.2	50.8	59.4	68.0	83.6
27.5°	0.0	17.9	28.0	30.3	35.8	40.4	43.5	52.3	61.1	70.0	89.2
25°	0.0	18.3	28.4	30.3	36.6	40.4	44.7	53.7	62.8	73.6	95.1
22.5°	0.0	18.7	28.8	30.3	37.3	40.4	45.7	55.0	64.2	78.0	105.5
20°	0.0	19.0	29.1	30.3	37.9	40.4	46.7	56.1	65.5	82.3	114.9
17.5°	0.0	19.3	29.4	30.3	38.5	40.4	47.6	57.1	66.7	86.4	123.5
15°	0.0	19.5	29.6	30.3	39.0	40.4	48.3	58.0	67.7	90.4	131.1
12.5°	0.0	19.7	29.8	30.3	39.4	40.4	48.9	58.8	69.4	94.0	137.8
10°	0.0	19.9	30.0	30.3	39.8	40.4	49.5	59.4	71.8	96.8	143.8
7.5°	0.0	20.0	30.1	30.3	40.1	40.4	49.9	59.9	74.2	98.8	149.5
5°	0.0	20.1	30.2	30.3	40.2	40.4	50.2	60.2	76.5	100.0	154.4
2.5°	0.0	20.2	30.3	30.3	40.4	40.4	50.3	60.4	78.7	100.7	158.5
0°	0.0	20.2	30.3	30.3	40.4	40.4	50.4	60.5	80.7	100.9	161.4
-2.5°	0.0	20.2	30.3	30.3	40.4	40.4	50.3	60.4	80.5	102.8	167.8
-5°	0.0	20.1	30.2	30.3	40.2	40.4	50.2	60.2	80.1	104.2	172.7
-7.5°	0.0	20.0	30.1	30.3	40.1	40.4	49.9	59.9	79.3	105.0	175.7
-10°	0.0	19.9	30.0	30.3	39.8	40.4	49.5	59.4	78.1	105.1	176.6
-12.5°	0.0	19.7	29.8	30.3	39.4	40.4	48.9	58.8	76.7	104.2	171.9
-15°	0.0	19.5	29.6	30.3	39.0	40.4	48.3	58.0	75.0	101.2	163.6
-17.5°	0.0	19.3	29.4	30.3	38.5	40.4	47.6	57.1	72.9	97.7	153.5
-20°	0.0	19.0	29.1	30.3	37.9	40.4	46.7	56.1	70.6	93.7	141.5



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 CATALOG NUMBER: EPH-LS-16-1200L-40-70-3L-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	18.7	28.8	30.3	37.3	40.4	45.7	55.0	67.9	89.2	127.6
-25°	0.0	18.3	28.4	30.3	36.6	40.2	44.7	53.7	65.0	84.3	111.7
-27.5°	0.0	17.9	28.0	30.3	35.8	39.9	43.5	52.3	61.8	79.4	105.1
-30°	0.0	17.5	27.6	30.3	34.9	39.5	42.2	50.8	59.4	75.5	98.5
-32.5°	0.0	17.0	27.1	30.3	33.9	39.0	40.8	49.2	57.5	71.2	91.4
-35°	0.0	16.5	26.6	30.3	32.8	38.3	40.0	47.4	55.5	66.7	83.8
-37.5°	0.0	16.0	26.1	30.3	31.8	37.4	39.3	45.6	53.4	61.9	77.4
-40°	0.0	15.5	25.6	30.3	30.8	36.0	38.3	43.7	51.2	58.7	71.7
-42.5°	0.0	14.9	25.0	30.3	30.3	34.7	37.2	41.6	48.8	56.0	65.8
-45°	0.0	14.3	24.4	30.3	30.3	33.5	35.9	39.7	46.4	53.2	60.0
-47.5°	0.0	13.6	23.7	30.3	30.3	32.4	34.3	37.9	43.8	50.3	56.8
-50°	0.0	13.0	23.1	29.5	30.3	31.4	33.2	35.7	41.2	47.4	53.5
-52.5°	0.0	12.3	22.4	28.5	30.3	30.4	32.2	33.3	38.5	44.3	50.0
-55°	0.0	11.6	21.7	27.4	30.3	30.3	31.4	30.8	35.6	41.1	46.5
-57.5°	0.0	10.9	20.9	26.3	30.3	30.3	30.8	30.4	32.7	37.8	42.9
-60°	0.0	10.1	20.2	25.2	30.2	30.3	30.3	30.3	30.3	34.5	39.2
-62.5°	0.0	9.3	18.6	24.1	28.7	30.3	30.3	30.3	30.3	31.0	35.4
-65°	0.0	8.5	17.1	22.9	27.1	30.3	30.3	30.2	30.3	30.3	31.5
-67.5°	0.0	7.7	15.4	21.7	25.5	29.3	30.3	29.9	30.3	30.3	30.3
-70°	0.0	6.9	13.8	20.4	23.9	27.3	30.3	29.3	29.1	30.3	30.3
-72.5°	0.0	6.1	12.1	18.2	22.2	25.2	28.1	28.7	27.6	27.9	29.6
-75°	0.0	5.2	10.4	15.6	20.5	23.1	25.6	26.6	26.0	25.3	25.7
-77.5°	0.0	4.4	8.7	13.1	17.4	20.9	23.1	24.1	24.0	22.9	21.7
-80°	0.0	3.5	7.0	10.5	14.0	17.4	20.5	21.7	22.1	21.7	20.4
-82.5°	0.0	2.6	5.3	7.9	10.5	13.1	15.6	18.2	20.3	20.6	20.3
-85°	0.0	1.8	3.5	5.3	7.0	8.7	10.4	12.1	13.8	15.4	17.1
-87.5°	0.0	0.9	1.8	2.6	3.5	4.4	5.2	6.1	6.9	7.7	8.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: EPH-LS-16-1200L-40-70-3L-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°	9.3	10.1	10.9	11.6	12.3	13.0	13.6	14.3	14.9	15.5	16.0
85°	18.6	20.2	20.4	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
82.5°	23.2	22.8	21.9	20.4	20.2	20.2	20.4	21.4	21.8	21.8	21.2
80°	26.9	25.6	24.1	23.4	24.5	25.9	27.2	28.5	27.8	26.0	24.3
77.5°	28.9	28.0	28.0	28.9	30.3	30.3	30.3	30.3	29.7	29.5	30.0
75°	29.9	30.2	31.0	30.7	30.3	30.3	30.6	32.5	33.7	33.8	32.9
72.5°	32.0	33.2	33.0	31.5	32.5	34.9	37.3	39.5	39.5	39.1	40.6
70°	36.0	36.5	35.8	36.4	38.5	40.4	40.4	40.4	40.9	44.9	50.4
67.5°	39.8	38.6	39.0	40.6	40.4	40.4	40.4	45.4	51.7	57.4	61.2
65°	40.3	40.1	41.6	42.0	40.6	44.1	49.8	56.9	62.9	66.1	68.9
62.5°	40.4	43.1	44.5	44.5	46.1	51.0	58.9	65.5	70.2	76.4	82.6
60°	43.8	47.1	47.4	48.3	52.2	61.0	68.9	75.1	82.7	91.0	97.8
57.5°	47.9	49.7	49.5	54.0	63.3	71.4	77.2	84.9	96.0	105.4	113.5
55°	50.7	50.3	54.0	64.2	72.4	77.2	86.0	99.9	111.2	124.2	134.5
52.5°	51.8	52.5	63.3	72.4	77.7	87.5	102.6	118.3	134.0	148.1	162.6
50°	53.4	61.1	71.4	77.2	88.2	105.5	122.9	141.8	162.4	180.4	203.1
47.5°	58.8	68.7	75.8	85.3	106.3	127.2	147.6	173.8	197.7	228.7	261.8
45°	64.8	74.2	80.7	103.0	126.9	151.7	181.4	211.1	245.5	284.8	337.6
42.5°	70.0	79.6	96.5	121.1	150.7	183.2	218.5	256.1	297.2	353.9	422.0
40°	75.4	85.8	114.6	144.4	177.2	218.6	262.7	306.2	358.6	433.6	515.5
37.5°	81.1	102.4	133.8	168.3	210.4	258.9	309.1	369.0	438.3	519.6	608.3
35°	87.1	119.1	155.7	197.1	245.9	303.4	366.9	439.6	530.7	613.6	696.0
32.5°	98.5	135.7	177.5	230.3	288.6	352.4	425.0	528.5	625.8	712.8	772.8
30°	112.8	154.7	201.6	263.9	331.3	410.2	504.0	618.0	720.2	804.7	868.7
27.5°	126.2	173.6	231.5	300.7	375.9	470.5	597.0	707.3	811.3	905.7	985.6
25°	138.6	191.7	261.1	337.7	430.5	549.5	695.9	829.0	913.6	1032.0	1250.3
22.5°	151.9	209.9	287.9	373.3	485.8	635.6	812.3	984.4	1125.5	1222.4	1635.9
20°	166.4	232.4	315.7	413.4	543.4	721.9	941.5	1173.5	1416.1	1838.4	2828.5
17.5°	180.3	253.0	345.4	466.3	630.1	838.6	1086.3	1391.1	1764.6	2618.0	4865.1
15°	193.5	271.6	375.1	520.6	727.6	1006.3	1345.1	1723.9	2328.9	3811.6	7331.5
12.5°	205.8	288.1	404.0	575.2	829.8	1190.2	1660.4	2285.6	3325.7	5848.6	12150.0
10°	217.0	302.5	431.6	628.7	933.7	1384.1	2003.7	2929.0	4504.0	8101.4	16990.0
7.5°	224.1	312.6	457.9	679.7	1036.0	1580.8	2361.4	3623.0	5716.4	10232.0	21640.2
5°	228.7	318.3	486.7	754.2	1177.7	1810.1	2739.7	4333.7	6917.3	12191.2	25930.4
2.5°	231.3	321.8	512.8	829.6	1341.4	2085.8	3192.3	5103.6	8061.6	14046.5	29375.7
0°	232.1	322.9	534.8	898.0	1493.3	2340.9	3612.2	5811.8	9091.0	15689.8	31773.2
-2.5°	246.9	359.3	579.9	948.9	1571.9	2501.5	3916.6	6363.4	10226.0	17536.0	33593.1
-5°	259.6	391.8	618.5	988.1	1627.5	2621.7	4152.2	6784.6	11058.6	18716.5	34121.1
-7.5°	269.5	418.8	649.8	1008.8	1634.4	2640.3	4210.6	6873.6	11285.7	18931.5	33305.5
-10°	275.1	424.1	634.6	972.7	1577.2	2572.6	4151.6	6787.3	11177.7	18572.8	31582.4
-12.5°	269.7	411.3	607.2	923.6	1491.9	2448.5	3985.3	6507.4	10691.8	17590.5	28819.2
-15°	260.9	395.4	575.7	861.4	1377.2	2263.6	3701.7	6017.9	9695.7	15505.2	24323.8
-17.5°	248.3	376.5	540.6	785.6	1232.1	2014.3	3264.6	5196.4	8422.7	13605.2	21388.1
-20°	231.6	355.0	502.4	696.2	1071.2	1733.5	2804.5	4521.0	7298.3	11660.7	18084.7



REPORT NUMBER: P699860 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-3L-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	210.8	331.0	466.7	637.6	934.7	1463.0	2338.9	3734.4	5946.4	9363.0	14878.5
-25°	190.0	306.4	435.4	572.7	792.0	1176.2	1833.2	2894.7	4738.5	7701.1	12133.6
-27.5°	170.9	276.6	391.7	507.8	652.1	913.9	1446.9	2310.9	3699.5	5853.7	9200.6
-30°	149.7	238.2	347.3	447.2	565.4	759.4	1105.2	1695.2	2675.2	4413.9	6999.4
-32.5°	126.2	199.7	302.6	397.2	494.6	612.7	811.1	1266.2	1975.7	3030.4	4909.8
-35°	107.7	172.0	257.8	347.5	427.3	517.8	662.8	902.4	1332.1	2115.9	3387.5
-37.5°	98.8	142.6	213.1	298.4	373.9	448.0	518.8	678.8	949.4	1348.7	2290.6
-40°	89.4	111.8	176.6	250.1	324.1	387.4	449.0	519.0	662.1	972.9	1411.1
-42.5°	79.9	100.5	141.4	201.9	272.6	337.4	385.4	432.5	500.5	652.6	954.4
-45°	73.1	89.2	108.9	161.9	217.5	285.3	337.5	372.2	409.7	462.9	610.6
-47.5°	66.0	78.6	96.4	123.4	170.6	223.0	287.2	328.8	354.9	381.4	399.3
-50°	59.6	70.6	84.2	103.8	132.4	170.1	217.3	277.6	315.4	333.8	349.2
-52.5°	55.8	62.3	74.5	90.1	108.3	133.6	163.6	202.2	256.5	299.6	313.0
-55°	51.8	57.1	64.6	77.6	93.2	110.1	128.1	153.2	175.6	223.8	268.6
-57.5°	47.9	52.8	57.6	65.1	78.5	93.3	106.4	119.0	138.8	157.5	182.2
-60°	43.8	48.3	52.8	57.1	63.1	76.1	88.0	99.3	110.6	121.5	138.7
-62.5°	39.6	43.8	47.9	51.8	55.8	61.1	71.7	81.9	90.0	99.5	108.9
-65°	35.4	39.2	42.9	46.5	50.0	54.2	59.8	67.0	75.7	81.8	87.5
-67.5°	31.0	34.5	37.8	41.1	44.1	46.5	50.3	55.4	61.6	66.9	72.0
-70°	30.3	30.3	32.7	35.6	37.8	38.2	40.0	43.0	47.3	51.9	56.4
-72.5°	30.3	30.3	30.3	30.3	32.2	33.2	33.0	31.5	33.8	39.4	43.8
-75°	27.7	30.0	30.3	30.3	29.7	29.6	30.4	30.5	30.9	32.6	35.2
-77.5°	23.2	25.1	27.0	28.8	28.5	26.8	25.9	25.8	27.0	28.5	29.8
-80°	20.2	20.2	21.6	23.1	23.6	23.3	22.3	20.6	20.2	20.8	21.9
-82.5°	20.2	20.2	20.2	20.2	20.2	20.2	20.3	20.2	20.2	20.2	20.2
-85°	18.6	20.2	20.2	20.2	20.2	20.2	20.2	20.2	18.9	17.9	17.1
-87.5°	9.3	10.1	10.9	11.6	12.3	13.0	13.6	14.3	13.0	11.6	10.0
-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: P699860 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-3L-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°	16.5	14.9	13.1	11.2	9.2	9.3	9.5	9.6	9.8	7.4	5.0
85°	20.2	19.4	18.9	18.5	18.3	16.6	14.6	12.4	10.2	10.0	9.9
82.5°	20.3	20.2	20.2	20.2	20.2	19.7	19.3	19.2	19.2	19.5	19.7
80°	23.2	23.9	24.8	25.7	26.5	27.2	27.8	28.4	28.9	29.3	29.7
77.5°	30.4	30.7	31.7	33.3	35.3	36.5	37.3	38.0	38.7	39.2	39.6
75°	31.1	32.7	37.4	41.2	44.2	45.7	46.7	47.6	48.3	48.9	49.5
72.5°	43.9	48.1	50.8	52.3	53.7	55.0	56.1	57.1	58.0	58.8	59.4
70°	54.7	57.5	59.4	61.1	62.8	64.7	67.5	70.7	74.3	76.7	78.1
67.5°	63.6	65.9	68.0	70.0	73.0	76.9	81.3	84.7	87.2	89.7	93.0
65°	72.7	77.7	82.5	86.9	91.0	94.7	98.1	101.1	103.7	106.2	108.4
62.5°	88.6	94.2	99.5	104.4	108.9	114.1	119.7	124.7	129.0	133.5	138.9
60°	104.4	110.5	116.7	123.9	132.0	140.9	150.7	161.1	172.2	183.5	193.2
57.5°	122.1	128.4	135.5	150.1	163.8	176.6	197.8	228.2	261.3	298.1	362.7
55°	145.2	157.2	168.2	193.5	222.4	250.9	286.7	348.4	417.5	491.7	651.5
52.5°	176.6	204.1	231.2	264.8	312.8	361.0	413.6	505.1	602.1	702.2	904.5
50°	236.2	272.3	317.4	364.8	423.1	482.7	541.9	642.4	742.7	840.4	1023.7
47.5°	310.4	361.1	416.7	468.8	533.6	592.5	644.0	723.7	809.6	883.3	1001.6
45°	395.7	462.4	522.5	576.4	634.7	685.0	724.4	769.6	834.4	878.8	929.9
42.5°	496.0	562.7	624.5	675.7	722.0	767.1	804.4	836.0	884.3	929.4	969.0
40°	591.5	656.5	712.0	763.0	807.0	850.8	912.6	965.6	1023.6	1102.3	1179.9
37.5°	682.4	739.4	791.4	842.1	909.1	984.8	1058.4	1145.0	1243.3	1384.9	1527.1
35°	763.1	817.2	867.5	939.6	1029.1	1118.5	1229.7	1392.3	1546.5	1722.1	1899.1
32.5°	835.4	898.4	970.1	1061.6	1176.7	1392.1	1490.4	1718.4	1855.7	2076.5	2326.7
30°	909.9	1015.6	1247.6	1384.3	1680.7	2087.4	2133.3	2367.4	2657.9	2848.1	3391.9
27.5°	1112.3	1398.7	1933.9	2909.0	3109.6	3695.4	4375.2	4083.2	5372.9	5187.1	7017.5
25°	1655.7	2297.2	4378.0	6260.3	7126.9	7874.8	9550.9	10064.0	12387.9	13856.5	14244.1
22.5°	2903.1	5692.9	8705.2	11362.2	13814.9	15818.0	17976.3	21160.1	22588.3	23310.4	23938.4
20°	5227.7	10329.4	14923.9	18732.2	22238.0	25594.7	29553.2	31915.5	33414.4	36509.5	39705.1
17.5°	10144.8	16404.2	22033.6	26808.5	31426.9	36643.1	39959.1	42645.7	46708.1	52249.0	58559.5
15°	15859.3	23251.6	29510.3	35265.5	41143.9	46205.0	49428.7	53592.7	60147.3	68725.9	79513.0
12.5°	21898.2	30087.6	36843.6	43225.0	50461.0	53901.1	57559.0	63642.6	72768.2	85163.2	107169.4
10°	27857.8	36519.3	43738.5	50544.7	56422.8	59923.1	64084.2	71302.3	85531.2	108470.2	140779.3
7.5°	33721.5	42923.8	50139.7	56708.6	61053.4	64153.3	69414.5	79732.5	99501.6	131236.1	181196.1
5°	39347.1	48980.2	55820.2	61469.1	64492.7	67454.8	73476.1	86769.8	113967.5	157285.1	242885.6
2.5°	44234.3	54508.6	60765.4	65310.4	67323.3	70152.2	76861.0	91931.7	123886.2	177936.6	312761.9
0°	47997.8	59348.9	64999.3	68571.1	70003.9	72728.2	79528.8	95319.5	129030.0	184928.2	320375.3
-2.5°	50734.7	63213.4	68747.9	71836.3	73123.0	75433.9	81823.8	96297.4	127873.2	180674.6	298214.6
-5°	51934.0	65589.5	71988.3	75228.1	76749.2	78777.7	84153.4	96787.3	122819.8	163493.4	238105.1
-7.5°	51508.5	66696.7	74792.5	78510.7	80391.3	82399.7	86727.6	96185.4	114734.7	144285.4	190409.3
-10°	49539.1	66619.5	77009.1	81531.5	84235.5	86305.4	89227.2	94850.0	106774.6	128200.9	155185.3
-12.5°	45961.4	64904.9	78635.9	84117.5	87614.9	90110.2	92854.4	97023.0	103692.5	113801.3	133416.3
-15°	41212.7	60799.3	76687.0	85196.9	89826.1	93535.7	96540.7	99211.2	103598.6	109894.1	118710.4
-17.5°	35452.9	54184.3	72142.0	85295.8	91127.4	95559.6	98848.4	102015.6	104779.1	108923.3	113019.6
-20°	28019.2	45964.8	65201.9	80447.9	90109.9	95579.8	99895.2	102993.4	105834.3	108469.4	111208.1



REPORT NUMBER: P699860 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-3L-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	22980.8	36947.8	54791.9	73317.8	85313.1	93205.9	98550.6	101890.8	105036.6	106963.2	109078.3
-25°	18461.6	27397.5	43427.7	60343.5	76246.8	87270.1	94382.3	98911.4	101727.3	103964.6	105560.2
-27.5°	14435.1	21765.1	31605.0	47036.7	62366.5	75867.5	85462.9	93797.5	96720.2	99489.0	100912.8
-30°	10534.0	16284.1	24112.3	33640.6	46834.3	59058.8	70787.3	80121.3	87428.9	92806.2	94838.5
-32.5°	7763.4	11454.7	17357.9	24625.6	31621.3	42227.1	52399.7	61981.1	70795.4	78022.8	83168.2
-35°	5295.4	8045.2	11344.0	16878.9	22347.4	28317.5	34797.5	43060.9	49997.4	57936.8	64747.2
-37.5°	3579.9	5357.3	7871.4	10869.2	15193.4	19257.1	23677.7	28068.6	32133.5	38547.6	44199.3
-40°	2336.4	3455.0	5216.2	7272.5	10041.0	12648.8	15930.6	18733.3	21680.3	25157.6	28133.2
-42.5°	1388.7	2209.7	3213.6	4702.7	6371.0	8190.3	10332.6	12343.8	14344.6	16433.6	18296.0
-45°	845.5	1294.4	1880.0	2814.4	3740.4	5032.0	6304.2	7472.2	8983.2	10318.1	11404.6
-47.5°	540.5	705.2	1070.5	1526.8	2070.5	2856.6	3623.6	4400.9	5354.1	6205.2	6883.3
-50°	376.2	444.7	594.2	746.5	1074.5	1456.7	1825.5	2302.7	2878.1	3401.2	3814.0
-52.5°	324.4	348.7	378.6	434.9	569.0	701.8	832.3	1102.7	1377.9	1624.8	1818.8
-55°	292.0	301.3	309.7	335.1	366.5	398.6	444.6	547.7	647.0	740.5	808.2
-57.5°	220.6	253.3	275.6	285.9	296.8	308.1	330.3	357.1	380.1	399.0	410.2
-60°	154.9	170.3	198.7	224.8	246.3	263.1	277.3	292.2	305.9	315.9	315.8
-62.5°	117.8	129.6	144.7	159.6	173.6	189.7	208.2	226.0	242.8	255.2	259.2
-65°	93.9	101.5	110.1	119.4	129.4	141.0	150.5	159.8	168.8	175.5	178.5
-67.5°	76.8	81.3	85.6	89.5	95.3	102.2	108.2	113.5	118.2	122.1	125.4
-70°	60.7	64.7	68.4	71.9	75.1	78.0	80.7	83.0	85.1	86.8	88.2
-72.5°	47.1	49.2	51.2	54.2	57.0	59.5	61.8	63.9	65.6	67.1	68.4
-75°	38.5	40.8	42.2	43.5	44.7	45.7	46.7	47.6	48.3	48.9	49.5
-77.5°	31.1	30.9	30.5	30.6	31.1	32.6	34.2	35.7	36.9	38.0	38.8
-80°	22.9	23.1	22.7	21.8	20.4	19.5	19.0	18.8	18.8	19.2	19.6
-82.5°	20.2	19.1	18.2	17.7	17.4	16.1	14.4	12.4	10.2	9.9	9.9
-85°	16.6	15.4	13.9	12.1	10.2	10.1	10.1	10.1	10.1	7.6	5.1
-87.5°	8.3	8.5	8.7	9.0	9.2	9.3	9.5	9.6	9.8	7.4	5.0
-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: P699860 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-3L-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°	2.5	0.0	0.0	0.0	0.0	0.0	2.5	5.0	7.4	9.8	9.6
85°	10.0	10.0	10.1	10.1	10.1	10.0	10.0	9.9	10.0	10.2	12.4
82.5°	19.9	20.1	20.2	20.2	20.2	20.1	19.9	19.7	19.5	19.2	19.2
80°	30.0	30.1	30.3	30.3	30.3	30.1	30.0	29.7	29.3	28.9	28.4
77.5°	40.0	40.2	40.4	40.4	40.4	40.2	40.0	39.6	39.2	38.7	38.0
75°	49.9	50.2	50.3	50.4	50.3	50.2	49.9	49.5	48.9	48.3	47.6
72.5°	59.9	60.2	60.4	60.5	60.4	60.2	59.9	59.4	58.8	58.0	57.1
70°	79.3	80.1	80.5	80.7	80.5	80.1	79.3	78.1	76.7	74.3	70.7
67.5°	96.4	99.8	100.7	100.9	100.7	99.8	96.4	93.0	89.7	87.2	84.7
65°	109.8	110.6	110.9	111.0	110.9	110.6	109.8	108.4	106.2	103.7	101.1
62.5°	144.1	148.9	150.8	151.3	150.8	148.9	144.1	138.9	133.5	129.0	124.7
60°	201.4	208.1	215.4	222.0	215.4	208.1	201.4	193.2	183.5	172.2	161.1
57.5°	434.5	508.8	568.7	615.5	568.7	508.8	434.5	362.7	298.1	261.3	228.2
55°	828.9	1011.6	1142.1	1231.0	1142.1	1011.6	828.9	651.5	491.7	417.5	348.4
52.5°	1137.4	1371.6	1525.3	1614.4	1525.3	1371.6	1137.4	904.5	702.2	602.1	505.1
50°	1254.8	1483.6	1627.4	1695.1	1627.4	1483.6	1254.8	1023.7	840.4	742.7	642.4
47.5°	1167.0	1321.8	1432.1	1503.4	1432.1	1321.8	1167.0	1001.6	883.3	809.6	723.7
45°	1018.2	1091.7	1138.2	1160.3	1138.2	1091.7	1018.2	929.9	878.8	834.4	769.6
42.5°	1034.4	1083.9	1110.4	1109.9	1110.4	1083.9	1034.4	969.0	929.4	884.3	836.0
40°	1276.2	1364.1	1426.6	1442.9	1426.6	1364.1	1276.2	1179.9	1102.3	1023.6	965.6
37.5°	1647.4	1733.1	1784.0	1785.9	1784.0	1733.1	1647.4	1527.1	1384.9	1243.3	1145.0
35°	2045.6	2149.7	2222.3	2209.7	2222.3	2149.7	2045.6	1899.1	1722.1	1546.5	1392.3
32.5°	2487.5	2610.4	2697.9	2714.2	2697.9	2610.4	2487.5	2326.7	2076.5	1855.7	1718.4
30°	3613.2	3807.9	3859.8	3844.3	3859.8	3807.9	3613.2	3391.9	2848.1	2657.9	2367.4
27.5°	7774.4	8128.8	7974.8	8041.7	7974.8	8128.8	7774.4	7017.5	5187.1	5372.9	4083.2
25°	14075.6	13491.9	12756.5	12208.8	12756.5	13491.9	14075.6	14244.1	13856.5	12387.9	10064.0
22.5°	25721.7	26579.0	27237.5	27293.2	27237.5	26579.0	25721.7	23938.4	23310.4	22588.3	21160.1
20°	43890.8	46851.0	48991.8	50046.0	48991.8	46851.0	43890.8	39705.1	36509.5	33414.4	31915.5
17.5°	66294.0	73164.4	77433.9	80184.6	77433.9	73164.4	66294.0	58559.5	52249.0	46708.1	42645.7
15°	93908.6	107879.7	115808.8	116962.4	115808.8	107879.7	93908.6	79513.0	68725.9	60147.3	53592.7
12.5°	129604.9	153882.5	172538.3	178294.0	172538.3	153882.5	129604.9	107169.4	85163.2	72768.2	63642.6
10°	181592.8	240616.1	322758.6	341533.9	322758.6	240616.1	181592.8	140779.3	108470.2	85531.2	71302.3
7.5°	297075.4	517377.3	750836.0	807774.2	750836.0	517377.3	297075.4	181196.1	131236.1	99501.6	79732.5
5°	496831.7	905504.9	#####	#####	#####	905504.9	496831.7	242885.6	157285.1	113967.5	86769.8
2.5°	681201.1	#####	#####	#####	#####	#####	681201.1	312761.9	177936.6	123886.2	91931.7
0°	685787.0	#####	#####	#####	#####	#####	685787.0	320375.3	184928.2	129030.0	95319.5
-2.5°	560726.5	847934.6	#####	#####	#####	847934.6	560726.5	298214.6	180674.6	127873.2	96297.4
-5°	377671.6	598570.9	761735.7	832489.4	761735.7	598570.9	377671.6	238105.1	163493.4	122819.8	96787.3
-7.5°	260872.7	361205.7	473059.5	503875.8	473059.5	361205.7	260872.7	190409.3	144285.4	114734.7	96185.4
-10°	192363.4	230338.7	269780.6	278623.2	269780.6	230338.7	192363.4	155185.3	128200.9	106774.6	94850.0
-12.5°	152815.1	173402.8	190741.5	193398.7	190741.5	173402.8	152815.1	133416.3	113801.3	103692.5	97023.0
-15°	130849.9	142396.2	150037.1	154456.6	150037.1	142396.2	130849.9	118710.4	109894.1	103598.6	99211.2
-17.5°	119405.1	124699.4	128380.9	131179.1	128380.9	124699.4	119405.1	113019.6	108923.3	104779.1	102015.6
-20°	114219.1	116950.1	119588.5	121513.0	119588.5	116950.1	114219.1	111208.1	108469.4	105834.3	102993.4



REPORT NUMBER: P699860 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-3L-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	110854.6	112735.5	114378.1	116205.7	114378.1	112735.5	110854.6	109078.3	106963.2	105036.6	101890.8
-25°	106862.0	108277.8	109516.7	110757.1	109516.7	108277.8	106862.0	105560.2	103964.6	101727.3	98911.4
-27.5°	101958.8	102953.7	103684.0	104561.9	103684.0	102953.7	101958.8	100912.8	99489.0	96720.2	93797.5
-30°	96279.7	97249.9	97717.9	98447.4	97717.9	97249.9	96279.7	94838.5	92806.2	87428.9	80121.3
-32.5°	86852.7	89200.2	90666.2	91999.9	90666.2	89200.2	86852.7	83168.2	78022.8	70795.4	61981.1
-35°	69439.6	72147.5	73798.8	75533.2	73798.8	72147.5	69439.6	64747.2	57936.8	49997.4	43060.9
-37.5°	47907.6	49911.6	51016.3	52275.9	51016.3	49911.6	47907.6	44199.3	38547.6	32133.5	28068.6
-40°	29976.3	31150.4	31694.9	31561.3	31694.9	31150.4	29976.3	28133.2	25157.6	21680.3	18733.3
-42.5°	19552.6	20362.7	20961.5	21582.3	20961.5	20362.7	19552.6	18296.0	16433.6	14344.6	12343.8
-45°	12300.5	13008.9	13430.4	13500.3	13430.4	13008.9	12300.5	11404.6	10318.1	8983.2	7472.2
-47.5°	7362.2	7705.0	7995.3	8243.5	7995.3	7705.0	7362.2	6883.3	6205.2	5354.1	4400.9
-50°	4115.5	4329.9	4506.3	4641.4	4506.3	4329.9	4115.5	3814.0	3401.2	2878.1	2302.7
-52.5°	1972.7	2089.7	2184.3	2250.1	2184.3	2089.7	1972.7	1818.8	1624.8	1377.9	1102.7
-55°	860.6	898.1	928.4	948.5	928.4	898.1	860.6	808.2	740.5	647.0	547.7
-57.5°	419.8	427.3	424.1	413.7	424.1	427.3	419.8	410.2	399.0	380.1	357.1
-60°	314.5	311.8	312.2	312.8	312.2	311.8	314.5	315.8	315.9	305.9	292.2
-62.5°	260.7	259.9	261.4	262.3	261.4	259.9	260.7	259.2	255.2	242.8	226.0
-65°	180.0	180.0	181.1	181.6	181.1	180.0	180.0	178.5	175.5	168.8	159.8
-67.5°	127.9	129.7	130.9	131.2	130.9	129.7	127.9	125.4	122.1	118.2	113.5
-70°	89.4	90.2	95.3	100.9	95.3	90.2	89.4	88.2	86.8	85.1	83.0
-72.5°	69.4	70.0	70.5	70.6	70.5	70.0	69.4	68.4	67.1	65.6	63.9
-75°	49.9	50.2	50.3	50.4	50.3	50.2	49.9	49.5	48.9	48.3	47.6
-77.5°	39.5	40.0	40.3	40.4	40.3	40.0	39.5	38.8	38.0	36.9	35.7
-80°	19.9	20.0	25.1	30.3	25.1	20.0	19.9	19.6	19.2	18.8	18.8
-82.5°	9.9	10.0	10.1	10.1	10.1	10.0	9.9	9.9	9.9	10.2	12.4
-85°	2.6	0.0	0.0	0.0	0.0	0.0	2.6	5.1	7.6	10.1	10.1
-87.5°	2.5	0.0	0.0	0.0	0.0	0.0	2.5	5.0	7.4	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: P699860 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-3L-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	11.2	13.1	14.9	16.5	16.0	15.5	14.9	14.3
85°	14.6	16.6	18.3	18.5	18.9	19.4	20.2	20.2	20.2	20.2	20.2
82.5°	19.3	19.7	20.2	20.2	20.2	20.2	20.3	21.2	21.8	21.8	21.4
80°	27.8	27.2	26.5	25.7	24.8	23.9	23.2	24.3	26.0	27.8	28.5
77.5°	37.3	36.5	35.3	33.3	31.7	30.7	30.4	30.0	29.5	29.7	30.3
75°	46.7	45.7	44.2	41.2	37.4	32.7	31.1	32.9	33.8	33.7	32.5
72.5°	56.1	55.0	53.7	52.3	50.8	48.1	43.9	40.6	39.1	39.5	39.5
70°	67.5	64.7	62.8	61.1	59.4	57.5	54.7	50.4	44.9	40.9	40.4
67.5°	81.3	76.9	73.0	70.0	68.0	65.9	63.6	61.2	57.4	51.7	45.4
65°	98.1	94.7	91.0	86.9	82.5	77.7	72.7	68.9	66.1	62.9	56.9
62.5°	119.7	114.1	108.9	104.4	99.5	94.2	88.6	82.6	76.4	70.2	65.5
60°	150.7	140.9	132.0	123.9	116.7	110.5	104.4	97.8	91.0	82.7	75.1
57.5°	197.8	176.6	163.8	150.1	135.5	128.4	122.1	113.5	105.4	96.0	84.9
55°	286.7	250.9	222.4	193.5	168.2	157.2	145.2	134.5	124.2	111.2	99.9
52.5°	413.6	361.0	312.8	264.8	231.2	204.1	176.6	162.6	148.1	134.0	118.3
50°	541.9	482.7	423.1	364.8	317.4	272.3	236.2	203.1	180.4	162.4	141.8
47.5°	644.0	592.5	533.6	468.8	416.7	361.1	310.4	261.8	228.7	197.7	173.8
45°	724.4	685.0	634.7	576.4	522.5	462.4	395.7	337.6	284.8	245.5	211.1
42.5°	804.4	767.1	722.0	675.7	624.5	562.7	496.0	422.0	353.9	297.2	256.1
40°	912.6	850.8	807.0	763.0	712.0	656.5	591.5	515.5	433.6	358.6	306.2
37.5°	1058.4	984.8	909.1	842.1	791.4	739.4	682.4	608.3	519.6	438.3	369.0
35°	1229.7	1118.5	1029.1	939.6	867.5	817.2	763.1	696.0	613.6	530.7	439.6
32.5°	1490.4	1392.1	1176.7	1061.6	970.1	898.4	835.4	772.8	712.8	625.8	528.5
30°	2133.3	2087.4	1680.7	1384.3	1247.6	1015.6	909.9	868.7	804.7	720.2	618.0
27.5°	4375.2	3695.4	3109.6	2909.0	1933.9	1398.7	1112.3	985.6	905.7	811.3	707.3
25°	9550.9	7874.8	7126.9	6260.3	4378.0	2297.2	1655.7	1250.3	1032.0	913.6	829.0
22.5°	17976.3	15818.0	13814.9	11362.2	8705.2	5692.9	2903.1	1635.9	1222.4	1125.5	984.4
20°	29553.2	25594.7	22238.0	18732.2	14923.9	10329.4	5227.7	2828.5	1838.4	1416.1	1173.5
17.5°	39959.1	36643.1	31426.9	26808.5	22033.6	16404.2	10144.8	4865.1	2618.0	1764.6	1391.1
15°	49428.7	46205.0	41143.9	35265.5	29510.3	23251.6	15859.3	7331.5	3811.6	2328.9	1723.9
12.5°	57559.0	53901.1	50461.0	43225.0	36843.6	30087.6	21898.2	12150.0	5848.6	3325.7	2285.6
10°	64084.2	59923.1	56422.8	50544.7	43738.5	36519.3	27857.8	16990.0	8101.4	4504.0	2929.0
7.5°	69414.5	64153.3	61053.4	56708.6	50139.7	42923.8	33721.5	21640.2	10232.0	5716.4	3623.0
5°	73476.1	67454.8	64492.7	61469.1	55820.2	48980.2	39347.1	25930.4	12191.2	6917.3	4333.7
2.5°	76861.0	70152.2	67323.3	65310.4	60765.4	54508.6	44234.3	29375.7	14046.5	8061.6	5103.6
0°	79528.8	72728.2	70003.9	68571.1	64999.3	59348.9	47997.8	31773.2	15689.8	9091.0	5811.8
-2.5°	81823.8	75433.9	73123.0	71836.3	68747.9	63213.4	50734.7	33593.1	17536.0	10226.0	6363.4
-5°	84153.4	78777.7	76749.2	75228.1	71988.3	65589.5	51934.0	34121.1	18716.5	11058.6	6784.6
-7.5°	86727.6	82399.7	80391.3	78510.7	74792.5	66696.7	51508.5	33305.5	18931.5	11285.7	6873.6
-10°	89227.2	86305.4	84235.5	81531.5	77009.1	66619.5	49539.1	31582.4	18572.8	11177.7	6787.3
-12.5°	92854.4	90110.2	87614.9	84117.5	78635.9	64904.9	45961.4	28819.2	17590.5	10691.8	6507.4
-15°	96540.7	93535.7	89826.1	85196.9	76687.0	60799.3	41212.7	24323.8	15505.2	9695.7	6017.9
-17.5°	98848.4	95559.6	91127.4	85295.8	72142.0	54184.3	35452.9	21388.1	13605.2	8422.7	5196.4
-20°	99895.2	95579.8	90109.9	80447.9	65201.9	45964.8	28019.2	18084.7	11660.7	7298.3	4521.0



REPORT NUMBER: P699860 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-3L-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	98550.6	93205.9	85313.1	73317.8	54791.9	36947.8	22980.8	14878.5	9363.0	5946.4	3734.4
-25°	94382.3	87270.1	76246.8	60343.5	43427.7	27397.5	18461.6	12133.6	7701.1	4738.5	2894.7
-27.5°	85462.9	75867.5	62366.5	47036.7	31605.0	21765.1	14435.1	9200.6	5853.7	3699.5	2310.9
-30°	70787.3	59058.8	46834.3	33640.6	24112.3	16284.1	10534.0	6999.4	4413.9	2675.2	1695.2
-32.5°	52399.7	42227.1	31621.3	24625.6	17357.9	11454.7	7763.4	4909.8	3030.4	1975.7	1266.2
-35°	34797.5	28317.5	22347.4	16878.9	11344.0	8045.2	5295.4	3387.5	2115.9	1332.1	902.4
-37.5°	23677.7	19257.1	15193.4	10869.2	7871.4	5357.3	3579.9	2290.6	1348.7	949.4	678.8
-40°	15930.6	12648.8	10041.0	7272.5	5216.2	3455.0	2336.4	1411.1	972.9	662.1	519.0
-42.5°	10332.6	8190.3	6371.0	4702.7	3213.6	2209.7	1388.7	954.4	652.6	500.5	432.5
-45°	6304.2	5032.0	3740.4	2814.4	1880.0	1294.4	845.5	610.6	462.9	409.7	372.2
-47.5°	3623.6	2856.6	2070.5	1526.8	1070.5	705.2	540.5	399.3	381.4	354.9	328.8
-50°	1825.5	1456.7	1074.5	746.5	594.2	444.7	376.2	349.2	333.8	315.4	277.6
-52.5°	832.3	701.8	569.0	434.9	378.6	348.7	324.4	313.0	299.6	256.5	202.2
-55°	444.6	398.6	366.5	335.1	309.7	301.3	292.0	268.6	223.8	175.6	153.2
-57.5°	330.3	308.1	296.8	285.9	275.6	253.3	220.6	182.2	157.5	138.8	119.0
-60°	277.3	263.1	246.3	224.8	198.7	170.3	154.9	138.7	121.5	110.6	99.3
-62.5°	208.2	189.7	173.6	159.6	144.7	129.6	117.8	108.9	99.5	90.0	81.9
-65°	150.5	141.0	129.4	119.4	110.1	101.5	93.9	87.5	81.8	75.7	67.0
-67.5°	108.2	102.2	95.3	89.5	85.6	81.3	76.8	72.0	66.9	61.6	55.4
-70°	80.7	78.0	75.1	71.9	68.4	64.7	60.7	56.4	51.9	47.3	43.0
-72.5°	61.8	59.5	57.0	54.2	51.2	49.2	47.1	43.8	39.4	33.8	31.5
-75°	46.7	45.7	44.7	43.5	42.2	40.8	38.5	35.2	32.6	30.9	30.5
-77.5°	34.2	32.6	31.1	30.6	30.5	30.9	31.1	29.8	28.5	27.0	25.8
-80°	19.0	19.5	20.4	21.8	22.7	23.1	22.9	21.9	20.8	20.2	20.6
-82.5°	14.4	16.1	17.4	17.7	18.2	19.1	20.2	20.2	20.2	20.2	20.2
-85°	10.1	10.1	10.2	12.1	13.9	15.4	16.6	17.1	17.9	18.9	20.2
-87.5°	9.5	9.3	9.2	9.0	8.7	8.5	8.3	10.0	11.6	13.0	14.3
-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: P699860 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-3L-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°	13.6	13.0	12.3	11.6	10.9	10.1	9.3	8.5	7.7	6.9	6.1
85°	20.2	20.2	20.2	20.2	20.4	20.2	18.6	17.1	15.4	13.8	12.1
82.5°	20.4	20.2	20.2	20.4	21.9	22.8	23.2	22.9	21.7	20.4	18.2
80°	27.2	25.9	24.5	23.4	24.1	25.6	26.9	27.1	25.5	23.9	22.2
77.5°	30.3	30.3	30.3	28.9	28.0	28.0	28.9	30.3	29.3	27.3	25.2
75°	30.6	30.3	30.3	30.7	31.0	30.2	29.9	30.3	30.3	30.3	28.1
72.5°	37.3	34.9	32.5	31.5	33.0	33.2	32.0	30.3	30.3	30.3	30.3
70°	40.4	40.4	38.5	36.4	35.8	36.5	36.0	33.6	30.4	30.3	30.3
67.5°	40.4	40.4	40.4	40.6	39.0	38.6	39.8	37.6	34.0	30.4	30.3
65°	49.8	44.1	40.6	42.0	41.6	40.1	40.3	40.4	37.6	33.6	30.3
62.5°	58.9	51.0	46.1	44.5	44.5	43.1	40.4	40.4	40.4	36.7	32.2
60°	68.9	61.0	52.2	48.3	47.4	47.1	43.8	40.4	40.4	39.8	34.9
57.5°	77.2	71.4	63.3	54.0	49.5	49.7	47.9	42.9	40.4	40.4	37.6
55°	86.0	77.2	72.4	64.2	54.0	50.3	50.7	46.5	41.1	40.4	40.1
52.5°	102.6	87.5	77.7	72.4	63.3	52.5	51.8	50.0	44.3	40.4	40.4
50°	122.9	105.5	88.2	77.2	71.4	61.1	53.4	52.0	47.4	41.2	40.4
47.5°	147.6	127.2	106.3	85.3	75.8	68.7	58.8	54.3	50.3	43.8	40.4
45°	181.4	151.7	126.9	103.0	80.7	74.2	64.8	56.9	52.9	46.4	40.4
42.5°	218.5	183.2	150.7	121.1	96.5	79.6	70.0	61.3	55.7	48.8	41.6
40°	262.7	218.6	177.2	144.4	114.6	85.8	75.4	65.4	58.7	51.2	43.7
37.5°	309.1	258.9	210.4	168.3	133.8	102.4	81.1	68.8	61.2	53.4	45.6
35°	366.9	303.4	245.9	197.1	155.7	119.1	87.1	72.7	63.6	55.5	47.4
32.5°	425.0	352.4	288.6	230.3	177.5	135.7	98.5	78.1	65.9	57.5	49.2
30°	504.0	410.2	331.3	263.9	201.6	154.7	112.8	83.6	68.0	59.4	50.8
27.5°	597.0	470.5	375.9	300.7	231.5	173.6	126.2	89.2	70.0	61.1	52.3
25°	695.9	549.5	430.5	337.7	261.1	191.7	138.6	95.1	73.6	62.8	53.7
22.5°	812.3	635.6	485.8	373.3	287.9	209.9	151.9	105.5	78.0	64.2	55.0
20°	941.5	721.9	543.4	413.4	315.7	232.4	166.4	114.9	82.3	65.5	56.1
17.5°	1086.3	838.6	630.1	466.3	345.4	253.0	180.3	123.5	86.4	66.7	57.1
15°	1345.1	1006.3	727.6	520.6	375.1	271.6	193.5	131.1	90.4	67.7	58.0
12.5°	1660.4	1190.2	829.8	575.2	404.0	288.1	205.8	137.8	94.0	69.4	58.8
10°	2003.7	1384.1	933.7	628.7	431.6	302.5	217.0	143.8	96.8	71.8	59.4
7.5°	2361.4	1580.8	1036.0	679.7	457.9	312.6	224.1	149.5	98.8	74.2	59.9
5°	2739.7	1810.1	1177.7	754.2	486.7	318.3	228.7	154.4	100.0	76.5	60.2
2.5°	3192.3	2085.8	1341.4	829.6	512.8	321.8	231.3	158.5	100.7	78.7	60.4
0°	3612.2	2340.9	1493.3	898.0	534.8	322.9	232.1	161.4	100.9	80.7	60.5
-2.5°	3916.6	2501.5	1571.9	948.9	579.9	359.3	246.9	167.8	102.8	80.5	60.4
-5°	4152.2	2621.7	1627.5	988.1	618.5	391.8	259.6	172.7	104.2	80.1	60.2
-7.5°	4210.6	2640.3	1634.4	1008.8	649.8	418.8	269.5	175.7	105.0	79.3	59.9
-10°	4151.6	2572.6	1577.2	972.7	634.6	424.1	275.1	176.6	105.1	78.1	59.4
-12.5°	3985.3	2448.5	1491.9	923.6	607.2	411.3	269.7	171.9	104.2	76.7	58.8
-15°	3701.7	2263.6	1377.2	861.4	575.7	395.4	260.9	163.6	101.2	75.0	58.0
-17.5°	3264.6	2014.3	1232.1	785.6	540.6	376.5	248.3	153.5	97.7	72.9	57.1
-20°	2804.5	1733.5	1071.2	696.2	502.4	355.0	231.6	141.5	93.7	70.6	56.1



REPORT NUMBER: P699860 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-3L-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2338.9	1463.0	934.7	637.6	466.7	331.0	210.8	127.6	89.2	67.9	55.0
-25°	1833.2	1176.2	792.0	572.7	435.4	306.4	190.0	111.7	84.3	65.0	53.7
-27.5°	1446.9	913.9	652.1	507.8	391.7	276.6	170.9	105.1	79.4	61.8	52.3
-30°	1105.2	759.4	565.4	447.2	347.3	238.2	149.7	98.5	75.5	59.4	50.8
-32.5°	811.1	612.7	494.6	397.2	302.6	199.7	126.2	91.4	71.2	57.5	49.2
-35°	662.8	517.8	427.3	347.5	257.8	172.0	107.7	83.8	66.7	55.5	47.4
-37.5°	518.8	448.0	373.9	298.4	213.1	142.6	98.8	77.4	61.9	53.4	45.6
-40°	449.0	387.4	324.1	250.1	176.6	111.8	89.4	71.7	58.7	51.2	43.7
-42.5°	385.4	337.4	272.6	201.9	141.4	100.5	79.9	65.8	56.0	48.8	41.6
-45°	337.5	285.3	217.5	161.9	108.9	89.2	73.1	60.0	53.2	46.4	39.7
-47.5°	287.2	223.0	170.6	123.4	96.4	78.6	66.0	56.8	50.3	43.8	37.9
-50°	217.3	170.1	132.4	103.8	84.2	70.6	59.6	53.5	47.4	41.2	35.7
-52.5°	163.6	133.6	108.3	90.1	74.5	62.3	55.8	50.0	44.3	38.5	33.3
-55°	128.1	110.1	93.2	77.6	64.6	57.1	51.8	46.5	41.1	35.6	30.8
-57.5°	106.4	93.3	78.5	65.1	57.6	52.8	47.9	42.9	37.8	32.7	30.4
-60°	88.0	76.1	63.1	57.1	52.8	48.3	43.8	39.2	34.5	30.3	30.3
-62.5°	71.7	61.1	55.8	51.8	47.9	43.8	39.6	35.4	31.0	30.3	30.3
-65°	59.8	54.2	50.0	46.5	42.9	39.2	35.4	31.5	30.3	30.3	30.2
-67.5°	50.3	46.5	44.1	41.1	37.8	34.5	31.0	30.3	30.3	30.3	29.9
-70°	40.0	38.2	37.8	35.6	32.7	30.3	30.3	30.3	30.3	29.1	29.3
-72.5°	33.0	33.2	32.2	30.3	30.3	30.3	30.3	29.6	27.9	27.6	28.7
-75°	30.4	29.6	29.7	30.3	30.3	30.0	27.7	25.7	25.3	26.0	26.6
-77.5°	25.9	26.8	28.5	28.8	27.0	25.1	23.2	21.7	22.9	24.0	24.1
-80°	22.3	23.3	23.6	23.1	21.6	20.2	20.2	20.4	21.7	22.1	21.7
-82.5°	20.3	20.2	20.2	20.2	20.2	20.2	20.2	20.3	20.6	20.3	18.2
-85°	20.2	20.2	20.2	20.2	20.2	20.2	18.6	17.1	15.4	13.8	12.1
-87.5°	13.6	13.0	12.3	11.6	10.9	10.1	9.3	8.5	7.7	6.9	6.1
-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: P699860 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-3L-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°	5.2	4.4	3.5	2.6	1.8	0.9	0.0
85°	10.4	8.7	7.0	5.3	3.5	1.8	0.0
82.5°	15.6	13.1	10.5	7.9	5.3	2.6	0.0
80°	20.5	17.4	14.0	10.5	7.0	3.5	0.0
77.5°	23.1	20.9	17.4	13.1	8.7	4.4	0.0
75°	25.6	23.1	20.5	15.6	10.4	5.2	0.0
72.5°	28.1	25.2	22.2	18.2	12.1	6.1	0.0
70°	30.3	27.3	23.9	20.4	13.8	6.9	0.0
67.5°	30.3	29.3	25.5	21.7	15.4	7.7	0.0
65°	30.3	30.3	27.1	22.9	17.1	8.5	0.0
62.5°	30.3	30.3	28.7	24.1	18.6	9.3	0.0
60°	30.3	30.3	30.2	25.2	20.2	10.1	0.0
57.5°	32.3	30.3	30.3	26.3	20.9	10.9	0.0
55°	34.5	30.3	30.3	27.4	21.7	11.6	0.0
52.5°	36.6	30.6	30.3	28.5	22.4	12.3	0.0
50°	38.7	32.3	30.3	29.5	23.1	13.0	0.0
47.5°	40.4	34.0	30.3	30.3	23.7	13.6	0.0
45°	40.4	35.6	30.3	30.3	24.4	14.3	0.0
42.5°	40.4	37.1	30.3	30.3	25.0	14.9	0.0
40°	40.4	38.6	30.9	30.3	25.6	15.5	0.0
37.5°	40.4	39.9	32.0	30.3	26.1	16.0	0.0
35°	40.4	40.4	33.0	30.3	26.6	16.5	0.0
32.5°	40.8	40.4	34.0	30.3	27.1	17.0	0.0
30°	42.2	40.4	34.9	30.3	27.6	17.5	0.0
27.5°	43.5	40.4	35.8	30.3	28.0	17.9	0.0
25°	44.7	40.4	36.6	30.3	28.4	18.3	0.0
22.5°	45.7	40.4	37.3	30.3	28.8	18.7	0.0
20°	46.7	40.4	37.9	30.3	29.1	19.0	0.0
17.5°	47.6	40.4	38.5	30.3	29.4	19.3	0.0
15°	48.3	40.4	39.0	30.3	29.6	19.5	0.0
12.5°	48.9	40.4	39.4	30.3	29.8	19.7	0.0
10°	49.5	40.4	39.8	30.3	30.0	19.9	0.0
7.5°	49.9	40.4	40.1	30.3	30.1	20.0	0.0
5°	50.2	40.4	40.2	30.3	30.2	20.1	0.0
2.5°	50.3	40.4	40.4	30.3	30.3	20.2	0.0
0°	50.4	40.4	40.4	30.3	30.3	20.2	0.0
-2.5°	50.3	40.4	40.4	30.3	30.3	20.2	0.0
-5°	50.2	40.4	40.2	30.3	30.2	20.1	0.0
-7.5°	49.9	40.4	40.1	30.3	30.1	20.0	0.0
-10°	49.5	40.4	39.8	30.3	30.0	19.9	0.0
-12.5°	48.9	40.4	39.4	30.3	29.8	19.7	0.0
-15°	48.3	40.4	39.0	30.3	29.6	19.5	0.0
-17.5°	47.6	40.4	38.5	30.3	29.4	19.3	0.0
-20°	46.7	40.4	37.9	30.3	29.1	19.0	0.0



REPORT NUMBER: P699860 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-3L-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	45.7	40.4	37.3	30.3	28.8	18.7	0.0
-25°	44.7	40.2	36.6	30.3	28.4	18.3	0.0
-27.5°	43.5	39.9	35.8	30.3	28.0	17.9	0.0
-30°	42.2	39.5	34.9	30.3	27.6	17.5	0.0
-32.5°	40.8	39.0	33.9	30.3	27.1	17.0	0.0
-35°	40.0	38.3	32.8	30.3	26.6	16.5	0.0
-37.5°	39.3	37.4	31.8	30.3	26.1	16.0	0.0
-40°	38.3	36.0	30.8	30.3	25.6	15.5	0.0
-42.5°	37.2	34.7	30.3	30.3	25.0	14.9	0.0
-45°	35.9	33.5	30.3	30.3	24.4	14.3	0.0
-47.5°	34.3	32.4	30.3	30.3	23.7	13.6	0.0
-50°	33.2	31.4	30.3	29.5	23.1	13.0	0.0
-52.5°	32.2	30.4	30.3	28.5	22.4	12.3	0.0
-55°	31.4	30.3	30.3	27.4	21.7	11.6	0.0
-57.5°	30.8	30.3	30.3	26.3	20.9	10.9	0.0
-60°	30.3	30.3	30.2	25.2	20.2	10.1	0.0
-62.5°	30.3	30.3	28.7	24.1	18.6	9.3	0.0
-65°	30.3	30.3	27.1	22.9	17.1	8.5	0.0
-67.5°	30.3	29.3	25.5	21.7	15.4	7.7	0.0
-70°	30.3	27.3	23.9	20.4	13.8	6.9	0.0
-72.5°	28.1	25.2	22.2	18.2	12.1	6.1	0.0
-75°	25.6	23.1	20.5	15.6	10.4	5.2	0.0
-77.5°	23.1	20.9	17.4	13.1	8.7	4.4	0.0
-80°	20.5	17.4	14.0	10.5	7.0	3.5	0.0
-82.5°	15.6	13.1	10.5	7.9	5.3	2.6	0.0
-85°	10.4	8.7	7.0	5.3	3.5	1.8	0.0
-87.5°	5.2	4.4	3.5	2.6	1.8	0.9	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)