

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: P699936 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200R-40-70-2R-S**

Issue Date: 8/10/2023

Test Information

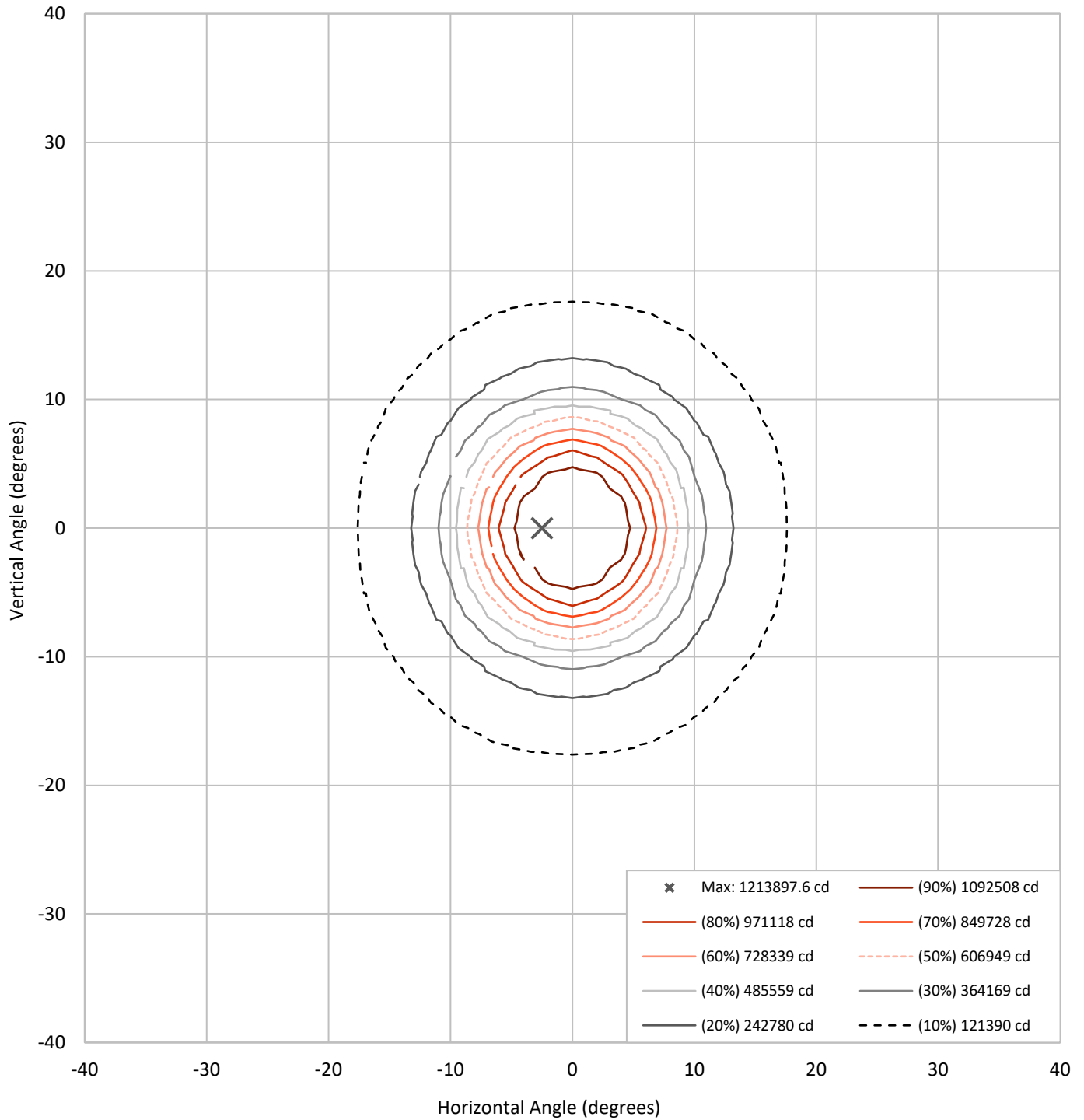
Test Method: LM-79-08
Report Number: P699936 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-15)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200R-40-70-2R-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 4000K, 70 CRI LEDS AND 2R BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	192334.2 lumens	Max Intensity:	1213897.6 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	154.5 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	17.3°H x 16.4°V	Field Angle (10%):	34.8°H x 34.6°V
Beam Lumens:	60024.9 lumens	Field Lumens:	122755.8 lumens
Beam Efficiency:	31.2%	Field Efficiency:	63.8%
Input Watts (W):	1244.6		
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





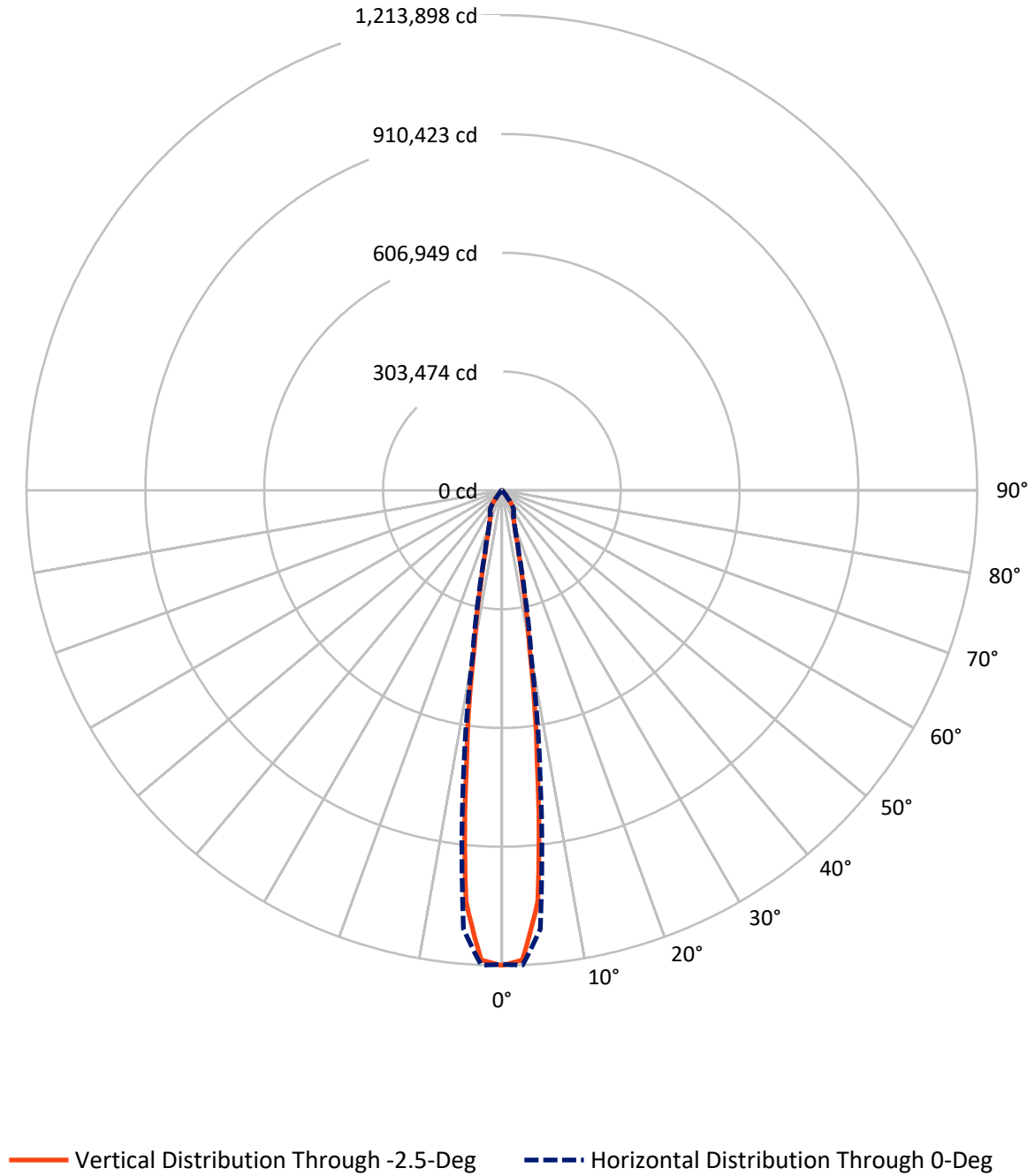
REPORT NUMBER: P699936 (CONVERTED FROM TYPE C PHOTOMETRY)
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Lumen Table

90	0.3	1.4		3.1		4.6		5.2		4.6		3.1		1.4		0.3
80	0.3	1.4		3.1		4.6		5.2		4.6		3.1		1.4		0.3
70	0.6	0.5	1.0	1.6	2.4	4.0	5.9	6.9	6.9	5.9	4.0	2.4	1.6	1.0	0.5	0.6
60		0.8	1.5	3.8	8.6	12.3	15.0	16.6	16.6	15.0	12.3	8.6	3.8	1.5	0.8	
50	0.9	1.0	3.2	8.9	14.0	23.1	51.0	89.9	89.9	51.0	23.1	14.0	8.9	3.2	1.0	0.9
40		1.3	6.1	12.1	32.3	232.3	740.2	1116.8	1116.8	740.2	232.3	32.3	12.1	6.1	1.3	
30	1.1	1.9	7.8	18.2	212.5	1092.0	1801.7	2147.1	2147.1	1801.7	1092.0	212.5	18.2	7.8	1.9	1.1
20		2.7	9.0	38.3	637.1	1692.9	2729.3	5194.6	5194.6	2729.3	1692.9	637.1	38.3	9.0	2.7	
10	1.2	3.1	9.7	66.2	930.4	1958.1	5057.9	22044.5	22044.5	5057.9	1958.1	930.4	66.2	9.7	3.1	1.2
0		3.1	9.7	66.2	930.4	1958.1	5057.9	22044.5	22044.5	5057.9	1958.1	930.4	66.2	9.7	3.1	
-10	1.1	2.7	9.0	38.3	637.1	1692.9	2729.3	5194.6	5194.6	2729.3	1692.9	637.1	38.3	9.0	2.7	1.1
-20		1.9	7.8	18.2	212.5	1092.0	1801.7	2147.1	2147.1	1801.7	1092.0	212.5	18.2	7.8	1.9	
-30	0.9	1.3	6.1	12.1	32.3	232.3	740.2	1116.8	1116.8	740.2	232.3	32.3	12.1	6.1	1.3	0.9
-40		1.0	3.2	8.9	14.0	23.1	51.0	89.9	89.9	51.0	23.1	14.0	8.9	3.2	1.0	
-50	0.6	0.8	1.5	3.8	8.6	12.3	15.0	16.6	16.6	15.0	12.3	8.6	3.8	1.5	0.8	0.6
-60		0.5	1.0	1.6	2.4	4.0	5.9	6.9	6.9	5.9	4.0	2.4	1.6	1.0	0.5	
-70	0.3	1.4		3.1		4.6		5.2		4.6		3.1		1.4		0.3
-80		1.4		3.1		4.6		5.2		4.6		3.1		1.4		
-90	0.3	1.4		3.1		4.6		5.2		4.6		3.1		1.4		0.3

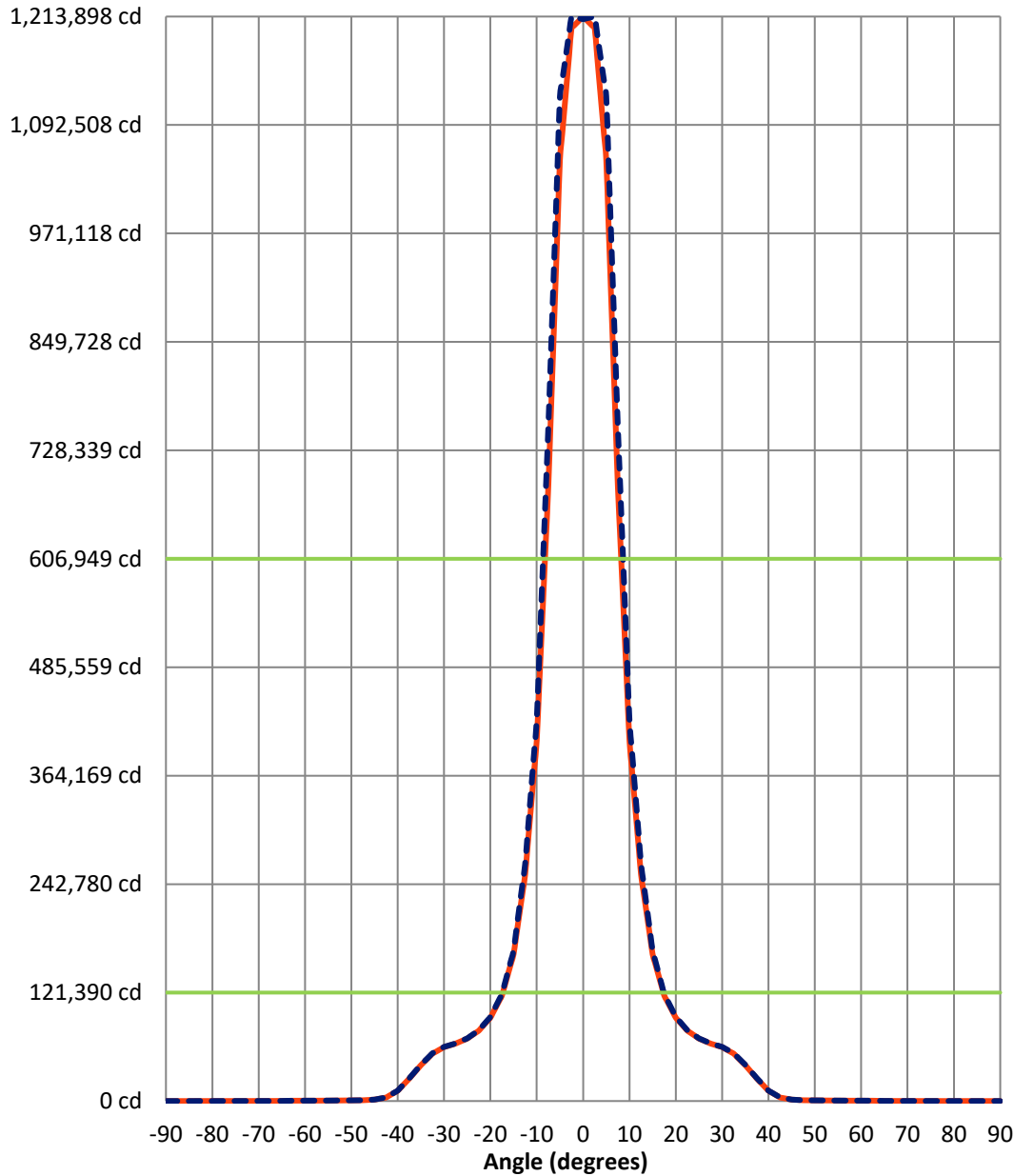
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 17.3°
 V Angle: 16.4°
 Lumens: 60024.9
 Efficiency: 31.2%

Field:
 H Angle: 34.8°
 V Angle: 34.6°
 Lumens: 122755.8
 Efficiency: 63.8%

Spill:
 Lumens: 69578.4
 Efficiency: 36.2%

— Vertical Distribution through -2.5-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	0.9	1.8	2.7	3.6	4.5	5.3	6.2	7.0	7.9	8.7
85°	0.0	1.8	3.6	5.4	7.1	8.9	10.7	12.4	14.1	15.7	17.4
82.5°	0.0	2.7	5.4	8.0	10.7	13.3	16.0	18.5	20.6	20.6	20.6
80°	0.0	3.6	7.1	10.7	14.2	17.7	20.6	20.6	20.6	20.6	20.6
77.5°	0.0	4.5	8.9	13.3	17.7	20.6	20.6	20.6	20.6	20.6	21.6
75°	0.0	5.3	10.7	16.0	20.6	20.6	20.6	20.6	20.9	23.4	25.9
72.5°	0.0	6.2	12.4	18.5	20.6	20.6	20.6	21.4	24.3	27.2	30.1
70°	0.0	7.0	14.1	20.6	20.6	20.6	20.9	24.3	27.7	31.0	34.2
67.5°	0.0	7.9	15.7	20.6	20.6	20.6	23.4	27.2	31.0	34.7	38.3
65°	0.0	8.7	17.4	20.6	20.6	21.6	25.9	30.1	34.2	38.3	42.4
62.5°	0.0	9.5	19.0	20.6	20.6	23.6	28.3	32.9	37.4	41.9	46.4
60°	0.0	10.3	20.6	20.6	20.6	25.6	30.6	35.6	40.6	45.4	50.3
57.5°	0.0	11.1	20.6	20.6	22.1	27.5	32.9	38.3	43.6	48.9	54.1
55°	0.0	11.8	20.6	20.6	23.6	29.4	35.2	40.9	46.6	52.2	57.8
52.5°	0.0	12.5	20.6	20.6	25.0	31.2	37.3	43.5	49.5	55.5	61.4
50°	0.0	13.2	20.6	20.6	26.4	32.9	39.5	45.9	52.3	58.7	65.0
47.5°	0.0	13.9	20.6	20.8	27.8	34.6	41.5	48.3	55.0	61.7	68.4
45°	0.0	14.6	20.6	21.8	29.1	36.3	43.4	50.6	57.7	64.7	71.7
42.5°	0.0	15.2	20.6	22.8	30.3	37.8	45.3	52.8	60.2	67.6	77.6
40°	0.0	15.8	20.6	23.6	31.5	39.3	47.1	54.9	62.6	70.3	83.6
37.5°	0.0	16.3	20.6	24.5	32.6	40.7	48.8	56.9	64.9	73.6	89.4
35°	0.0	16.9	20.6	25.3	33.7	42.1	50.4	58.8	67.1	78.5	93.8
32.5°	0.0	17.4	20.6	26.0	34.7	43.3	51.9	60.5	69.1	83.2	96.4
30°	0.0	17.8	20.6	26.7	35.6	44.5	53.4	62.2	71.1	87.5	98.9
27.5°	0.0	18.3	20.6	27.4	36.5	45.6	54.7	63.8	73.5	91.5	101.1
25°	0.0	18.7	20.6	28.0	37.3	46.6	55.9	65.2	76.8	94.0	103.6
22.5°	0.0	19.0	20.6	28.5	38.0	47.5	57.0	66.5	79.8	95.7	115.0
20°	0.0	19.4	20.6	29.0	38.7	48.3	58.0	67.7	82.5	97.2	125.3
17.5°	0.0	19.6	20.6	29.5	39.3	49.1	58.9	68.7	84.9	98.6	134.5
15°	0.0	19.9	20.6	29.8	39.8	49.7	59.6	69.6	87.0	99.8	142.5
12.5°	0.0	20.1	20.6	30.2	40.2	50.3	60.3	70.4	88.7	100.8	149.3
10°	0.0	20.3	20.6	30.4	40.6	50.7	60.8	71.1	90.2	101.6	154.9
7.5°	0.0	20.4	20.6	30.6	40.8	51.1	61.3	71.6	91.3	102.3	159.3
5°	0.0	20.5	20.6	30.8	41.0	51.3	61.6	71.9	92.1	102.7	162.4
2.5°	0.0	20.6	20.6	30.9	41.2	51.5	61.7	72.1	92.6	103.0	164.3
0°	0.0	20.6	20.6	30.9	41.2	51.5	61.8	72.2	92.8	103.1	164.9
-2.5°	0.0	20.6	20.6	30.9	41.2	51.5	61.7	72.1	92.6	103.0	164.3
-5°	0.0	20.5	20.6	30.8	41.0	51.3	61.6	71.9	92.1	102.7	162.4
-7.5°	0.0	20.4	20.6	30.6	40.8	51.1	61.3	71.6	91.3	102.3	159.3
-10°	0.0	20.3	20.6	30.4	40.6	50.7	60.8	71.1	90.2	101.6	154.9
-12.5°	0.0	20.1	20.6	30.2	40.2	50.3	60.3	70.4	88.7	100.8	149.3
-15°	0.0	19.9	20.6	29.8	39.8	49.7	59.6	69.6	87.0	99.8	142.5
-17.5°	0.0	19.6	20.6	29.5	39.3	49.1	58.9	68.7	84.9	98.6	134.5
-20°	0.0	19.4	20.6	29.0	38.7	48.3	58.0	67.7	82.5	97.2	125.3



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 CATALOG NUMBER: EPH-LS-16-1200R-40-70-2R-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	19.0	20.6	28.5	38.0	47.5	57.0	66.5	79.8	95.7	115.0
-25°	0.0	18.7	20.6	28.0	37.3	46.6	55.9	65.2	76.8	94.0	103.6
-27.5°	0.0	18.3	20.6	27.4	36.5	45.6	54.7	63.8	73.5	91.5	101.1
-30°	0.0	17.8	20.6	26.7	35.6	44.5	53.4	62.2	71.1	87.5	98.9
-32.5°	0.0	17.4	20.6	26.0	34.7	43.3	51.9	60.5	69.1	83.2	96.4
-35°	0.0	16.9	20.6	25.3	33.7	42.1	50.4	58.8	67.1	78.5	93.8
-37.5°	0.0	16.3	20.6	24.5	32.6	40.7	48.8	56.9	64.9	73.6	89.4
-40°	0.0	15.8	20.6	23.6	31.5	39.3	47.1	54.9	62.6	70.3	83.6
-42.5°	0.0	15.2	20.6	22.8	30.3	37.8	45.3	52.8	60.2	67.6	77.6
-45°	0.0	14.6	20.6	21.8	29.1	36.3	43.4	50.6	57.7	64.7	71.7
-47.5°	0.0	13.9	20.6	20.8	27.8	34.6	41.5	48.3	55.0	61.7	68.4
-50°	0.0	13.2	20.6	20.6	26.4	32.9	39.5	45.9	52.3	58.7	65.0
-52.5°	0.0	12.5	20.6	20.6	25.0	31.2	37.3	43.5	49.5	55.5	61.4
-55°	0.0	11.8	20.6	20.6	23.6	29.4	35.2	40.9	46.6	52.2	57.8
-57.5°	0.0	11.1	20.6	20.6	22.1	27.5	32.9	38.3	43.6	48.9	54.1
-60°	0.0	10.3	20.6	20.6	20.6	25.6	30.6	35.6	40.6	45.4	50.3
-62.5°	0.0	9.5	19.0	20.6	20.6	23.6	28.3	32.9	37.4	41.9	46.4
-65°	0.0	8.7	17.4	20.6	20.6	21.6	25.9	30.1	34.2	38.3	42.4
-67.5°	0.0	7.9	15.7	20.6	20.6	20.6	23.4	27.2	31.0	34.7	38.3
-70°	0.0	7.0	14.1	20.6	20.6	20.6	20.9	24.3	27.7	31.0	34.2
-72.5°	0.0	6.2	12.4	18.5	20.6	20.6	20.6	21.4	24.3	27.2	30.1
-75°	0.0	5.3	10.7	16.0	20.6	20.6	20.6	20.6	20.9	23.4	25.9
-77.5°	0.0	4.5	8.9	13.3	17.7	20.6	20.6	20.6	20.6	20.6	21.6
-80°	0.0	3.6	7.1	10.7	14.2	17.7	20.6	20.6	20.6	20.6	20.6
-82.5°	0.0	2.7	5.4	8.0	10.7	13.3	16.0	18.5	20.6	20.6	20.6
-85°	0.0	1.8	3.6	5.4	7.1	8.9	10.7	12.4	14.1	15.7	17.4
-87.5°	0.0	0.9	1.8	2.7	3.6	4.5	5.3	6.2	7.0	7.9	8.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: EPH-LS-16-1200R-40-70-2R-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°	9.5	10.3	11.1	11.8	12.5	13.2	13.9	14.6	15.2	15.8	16.3
85°	19.0	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
82.5°	20.6	20.6	20.6	20.6	20.6	20.6	20.8	21.8	22.8	23.6	24.5
80°	20.6	20.6	22.1	23.6	25.0	26.4	27.8	29.1	30.3	31.5	32.6
77.5°	23.6	25.6	27.5	29.4	31.2	32.9	34.6	36.3	37.8	39.3	40.7
75°	28.3	30.6	32.9	35.2	37.3	39.5	41.5	43.4	45.3	47.1	48.8
72.5°	32.9	35.6	38.3	40.9	43.5	45.9	48.3	50.6	52.8	54.9	56.9
70°	37.4	40.6	43.6	46.6	49.5	52.3	55.0	57.7	60.2	62.6	64.9
67.5°	41.9	45.4	48.9	52.2	55.5	58.7	61.7	64.7	67.6	70.3	73.6
65°	46.4	50.3	54.1	57.8	61.4	65.0	68.4	71.7	77.6	83.6	89.4
62.5°	50.7	55.0	59.2	63.3	67.3	71.2	77.8	85.0	92.0	95.7	98.9
60°	55.0	59.6	64.2	68.7	74.0	82.5	90.7	95.7	99.5	103.6	124.6
57.5°	59.2	64.2	69.2	75.9	85.3	93.6	98.1	102.4	123.8	147.7	186.8
55°	63.3	68.7	75.9	86.3	94.6	99.5	110.5	138.4	166.5	265.9	361.0
52.5°	67.3	74.0	85.3	94.6	100.0	116.3	147.2	212.0	323.1	405.7	419.0
50°	71.2	82.5	93.6	99.5	116.3	150.2	234.9	357.8	411.7	426.7	435.6
47.5°	77.8	90.7	98.1	110.5	147.2	234.9	369.4	414.8	431.3	437.7	442.8
45°	85.0	95.7	102.4	138.4	212.0	357.8	414.8	432.9	438.8	453.0	496.8
42.5°	92.0	99.5	123.8	166.5	323.1	411.7	431.3	438.8	457.3	505.5	565.2
40°	95.7	103.6	147.7	265.9	405.7	426.7	437.7	453.0	505.5	571.8	645.8
37.5°	98.9	124.6	186.8	361.0	419.0	435.6	442.8	496.8	565.2	645.8	717.7
35°	102.0	144.6	270.4	408.5	431.8	440.2	479.5	545.3	632.2	711.4	791.3
32.5°	113.5	163.5	349.5	419.7	436.6	454.0	517.0	605.4	692.4	776.0	869.9
30°	129.6	227.4	404.9	430.2	440.4	487.0	565.7	661.3	748.3	846.5	1167.1
27.5°	144.6	290.8	413.9	435.3	449.2	517.8	615.6	710.4	807.9	988.2	1566.7
25°	158.4	349.5	422.3	438.3	475.7	556.9	661.0	756.3	866.2	1339.0	2584.8
22.5°	188.8	402.2	430.0	441.1	500.1	596.5	700.2	805.1	1027.4	1698.1	3700.7
20°	232.8	408.5	434.2	447.0	522.2	632.5	736.0	850.8	1304.1	2650.1	6201.1
17.5°	271.9	414.1	436.3	465.1	550.0	663.4	769.0	891.8	1553.2	3509.0	9155.4
15°	306.0	419.0	438.1	481.0	576.0	689.4	802.2	1071.2	2043.7	4743.9	11835.8
12.5°	335.2	423.2	439.7	494.5	598.2	711.5	830.7	1245.2	2646.5	6827.7	15927.3
10°	359.1	426.7	440.9	505.7	616.5	729.8	854.3	1389.2	3146.5	8559.2	19334.6
7.5°	377.8	429.4	441.9	514.4	630.8	744.2	872.8	1502.4	3539.7	9923.1	22023.5
5°	391.2	431.3	442.6	520.7	641.1	754.5	886.1	1583.8	3822.9	10906.8	23965.8
2.5°	399.3	432.5	443.1	524.4	647.3	760.7	894.1	1632.9	3993.9	11500.9	25140.1
0°	402.0	432.9	443.2	525.7	649.4	762.8	896.8	1649.3	4051.0	11699.6	25533.0
-2.5°	399.3	432.5	443.1	524.4	647.3	760.7	894.1	1632.9	3993.9	11500.9	25140.1
-5°	391.2	431.3	442.6	520.7	641.1	754.5	886.1	1583.8	3822.9	10906.8	23965.8
-7.5°	377.8	429.4	441.9	514.4	630.8	744.2	872.8	1502.4	3539.7	9923.1	22023.5
-10°	359.1	426.7	440.9	505.7	616.5	729.8	854.3	1389.2	3146.5	8559.2	19334.6
-12.5°	335.2	423.2	439.7	494.5	598.2	711.5	830.7	1245.2	2646.5	6827.7	15927.3
-15°	306.0	419.0	438.1	481.0	576.0	689.4	802.2	1071.2	2043.7	4743.9	11835.8
-17.5°	271.9	414.1	436.3	465.1	550.0	663.4	769.0	891.8	1553.2	3509.0	9155.4
-20°	232.8	408.5	434.2	447.0	522.2	632.5	736.0	850.8	1304.1	2650.1	6201.1



REPORT NUMBER: P699936 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-2R-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	188.8	402.2	430.0	441.1	500.1	596.5	700.2	805.1	1027.4	1698.1	3700.7
-25°	158.4	349.5	422.3	438.3	475.7	556.9	661.0	756.3	866.2	1339.0	2584.8
-27.5°	144.6	290.8	413.9	435.3	449.2	517.8	615.6	710.4	807.9	988.2	1566.7
-30°	129.6	227.4	404.9	430.2	440.4	487.0	565.7	661.3	748.3	846.5	1167.1
-32.5°	113.5	163.5	349.5	419.7	436.6	454.0	517.0	605.4	692.4	776.0	869.9
-35°	102.0	144.6	270.4	408.5	431.8	440.2	479.5	545.3	632.2	711.4	791.3
-37.5°	98.9	124.6	186.8	361.0	419.0	435.6	442.8	496.8	565.2	645.8	717.7
-40°	95.7	103.6	147.7	265.9	405.7	426.7	437.7	453.0	505.5	571.8	645.8
-42.5°	92.0	99.5	123.8	166.5	323.1	411.7	431.3	438.8	457.3	505.5	565.2
-45°	85.0	95.7	102.4	138.4	212.0	357.8	414.8	432.9	438.8	453.0	496.8
-47.5°	77.8	90.7	98.1	110.5	147.2	234.9	369.4	414.8	431.3	437.7	442.8
-50°	71.2	82.5	93.6	99.5	116.3	150.2	234.9	357.8	411.7	426.7	435.6
-52.5°	67.3	74.0	85.3	94.6	100.0	116.3	147.2	212.0	323.1	405.7	419.0
-55°	63.3	68.7	75.9	86.3	94.6	99.5	110.5	138.4	166.5	265.9	361.0
-57.5°	59.2	64.2	69.2	75.9	85.3	93.6	98.1	102.4	123.8	147.7	186.8
-60°	55.0	59.6	64.2	68.7	74.0	82.5	90.7	95.7	99.5	103.6	124.6
-62.5°	50.7	55.0	59.2	63.3	67.3	71.2	77.8	85.0	92.0	95.7	98.9
-65°	46.4	50.3	54.1	57.8	61.4	65.0	68.4	71.7	77.6	83.6	89.4
-67.5°	41.9	45.4	48.9	52.2	55.5	58.7	61.7	64.7	67.6	70.3	73.6
-70°	37.4	40.6	43.6	46.6	49.5	52.3	55.0	57.7	60.2	62.6	64.9
-72.5°	32.9	35.6	38.3	40.9	43.5	45.9	48.3	50.6	52.8	54.9	56.9
-75°	28.3	30.6	32.9	35.2	37.3	39.5	41.5	43.4	45.3	47.1	48.8
-77.5°	23.6	25.6	27.5	29.4	31.2	32.9	34.6	36.3	37.8	39.3	40.7
-80°	20.6	20.6	22.1	23.6	25.0	26.4	27.8	29.1	30.3	31.5	32.6
-82.5°	20.6	20.6	20.6	20.6	20.6	20.6	20.8	21.8	22.8	23.6	24.5
-85°	19.0	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
-87.5°	9.5	10.3	11.1	11.8	12.5	13.2	13.9	14.6	15.2	15.8	16.3
-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: P699936 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-2R-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°	16.9	17.4	17.8	18.3	18.7	19.0	19.4	19.6	19.9	20.1	20.3
85°	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
82.5°	25.3	26.0	26.7	27.4	28.0	28.5	29.0	29.5	29.8	30.2	30.4
80°	33.7	34.7	35.6	36.5	37.3	38.0	38.7	39.3	39.8	40.2	40.6
77.5°	42.1	43.3	44.5	45.6	46.6	47.5	48.3	49.1	49.7	50.3	50.7
75°	50.4	51.9	53.4	54.7	55.9	57.0	58.0	58.9	59.6	60.3	60.8
72.5°	58.8	60.5	62.2	63.8	65.2	66.5	67.7	68.7	69.6	70.4	71.1
70°	67.1	69.1	71.1	73.5	76.8	79.8	82.5	84.9	87.0	88.7	90.2
67.5°	78.5	83.2	87.5	91.5	94.0	95.7	97.2	98.6	99.8	100.8	101.6
65°	93.8	96.4	98.9	101.1	103.6	115.0	125.3	134.5	142.5	149.3	154.9
62.5°	102.0	113.5	129.6	144.6	158.4	188.8	232.8	271.9	306.0	335.2	359.1
60°	144.6	163.5	227.4	290.8	349.5	402.2	408.5	414.1	419.0	423.2	426.7
57.5°	270.4	349.5	404.9	413.9	422.3	430.0	434.2	436.3	438.1	439.7	440.9
55°	408.5	419.7	430.2	435.3	438.3	441.1	447.0	465.1	481.0	494.5	505.7
52.5°	431.8	436.6	440.4	449.2	475.7	500.1	522.2	550.0	576.0	598.2	616.5
50°	440.2	454.0	487.0	517.8	556.9	596.5	632.5	663.4	689.4	711.5	729.8
47.5°	479.5	517.0	565.7	615.6	661.0	700.2	736.0	769.0	802.2	830.7	854.3
45°	545.3	605.4	661.3	710.4	756.3	805.1	850.8	891.8	1071.2	1245.2	1389.2
42.5°	632.2	692.4	748.3	807.9	866.2	1027.4	1304.1	1553.2	2043.7	2646.5	3146.5
40°	711.4	776.0	846.5	988.2	1339.0	1698.1	2650.1	3509.0	4743.9	6827.7	8559.2
37.5°	791.3	869.9	1167.1	1566.7	2584.8	3700.7	6201.1	9155.4	11835.8	15927.3	19334.6
35°	877.8	1257.6	1828.6	3188.2	5386.7	9199.1	13534.2	19303.4	24434.9	29168.8	33200.6
32.5°	1257.6	1977.4	3493.6	6883.5	11244.3	18265.8	25103.9	31834.2	37875.6	42765.9	46545.7
30°	1828.6	3493.6	7386.9	12752.0	21162.2	29380.1	37367.7	44097.0	49727.5	54120.7	56402.7
27.5°	3188.2	6883.5	12752.0	22137.6	31572.4	40737.1	48114.2	54261.6	57637.1	60597.9	61970.3
25°	5386.7	11244.3	21162.2	31572.4	41722.2	50161.7	56022.1	60068.5	62318.5	64086.7	66081.5
22.5°	9199.1	18265.8	29380.1	40737.1	50161.7	56617.4	60994.3	63381.8	66041.2	68860.7	71928.3
20°	13534.2	25103.9	37367.7	48114.2	56022.1	60994.3	63742.5	67145.2	70849.6	75793.7	80610.0
17.5°	19303.4	31834.2	44097.0	54261.6	60068.5	63381.8	67145.2	71794.6	77797.7	85854.8	93709.4
15°	24434.9	37875.6	49727.5	57637.1	62318.5	66041.2	70849.6	77797.7	87653.8	100004.0	115120.6
12.5°	29168.8	42765.9	54120.7	60597.9	64086.7	68860.7	75793.7	85854.8	100004.0	118792.1	149732.1
10°	33200.6	46545.7	56402.7	61970.3	66081.5	71928.3	80610.0	93709.4	115120.6	149732.1	195433.6
7.5°	36389.6	49543.8	58218.9	63062.4	67838.2	75044.9	86366.1	104532.4	134754.8	182045.8	266742.7
5°	38697.3	51718.1	59539.7	63859.3	69125.8	77342.5	90642.6	112909.8	152919.0	221809.5	340062.7
2.5°	40094.3	53036.3	60342.0	64344.6	69912.4	78752.1	93281.4	118121.7	164355.6	253420.5	403626.6
0°	40562.0	53478.0	60611.1	64507.6	70177.0	79227.4	94174.0	119892.5	168268.0	265596.3	427071.4
-2.5°	40094.3	53036.3	60342.0	64344.6	69912.4	78752.1	93281.4	118121.7	164355.6	253420.5	403626.6
-5°	38697.3	51718.1	59539.7	63859.3	69125.8	77342.5	90642.6	112909.8	152919.0	221809.5	340062.7
-7.5°	36389.6	49543.8	58218.9	63062.4	67838.2	75044.9	86366.1	104532.4	134754.8	182045.8	266742.7
-10°	33200.6	46545.7	56402.7	61970.3	66081.5	71928.3	80610.0	93709.4	115120.6	149732.1	195433.6
-12.5°	29168.8	42765.9	54120.7	60597.9	64086.7	68860.7	75793.7	85854.8	100004.0	118792.1	149732.1
-15°	24434.9	37875.6	49727.5	57637.1	62318.5	66041.2	70849.6	77797.7	87653.8	100004.0	115120.6
-17.5°	19303.4	31834.2	44097.0	54261.6	60068.5	63381.8	67145.2	71794.6	77797.7	85854.8	93709.4
-20°	13534.2	25103.9	37367.7	48114.2	56022.1	60994.3	63742.5	67145.2	70849.6	75793.7	80610.0



REPORT NUMBER: P699936 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-2R-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	9199.1	18265.8	29380.1	40737.1	50161.7	56617.4	60994.3	63381.8	66041.2	68860.7	71928.3
-25°	5386.7	11244.3	21162.2	31572.4	41722.2	50161.7	56022.1	60068.5	62318.5	64086.7	66081.5
-27.5°	3188.2	6883.5	12752.0	22137.6	31572.4	40737.1	48114.2	54261.6	57637.1	60597.9	61970.3
-30°	1828.6	3493.6	7386.9	12752.0	21162.2	29380.1	37367.7	44097.0	49727.5	54120.7	56402.7
-32.5°	1257.6	1977.4	3493.6	6883.5	11244.3	18265.8	25103.9	31834.2	37875.6	42765.9	46545.7
-35°	877.8	1257.6	1828.6	3188.2	5386.7	9199.1	13534.2	19303.4	24434.9	29168.8	33200.6
-37.5°	791.3	869.9	1167.1	1566.7	2584.8	3700.7	6201.1	9155.4	11835.8	15927.3	19334.6
-40°	711.4	776.0	846.5	988.2	1339.0	1698.1	2650.1	3509.0	4743.9	6827.7	8559.2
-42.5°	632.2	692.4	748.3	807.9	866.2	1027.4	1304.1	1553.2	2043.7	2646.5	3146.5
-45°	545.3	605.4	661.3	710.4	756.3	805.1	850.8	891.8	1071.2	1245.2	1389.2
-47.5°	479.5	517.0	565.7	615.6	661.0	700.2	736.0	769.0	802.2	830.7	854.3
-50°	440.2	454.0	487.0	517.8	556.9	596.5	632.5	663.4	689.4	711.5	729.8
-52.5°	431.8	436.6	440.4	449.2	475.7	500.1	522.2	550.0	576.0	598.2	616.5
-55°	408.5	419.7	430.2	435.3	438.3	441.1	447.0	465.1	481.0	494.5	505.7
-57.5°	270.4	349.5	404.9	413.9	422.3	430.0	434.2	436.3	438.1	439.7	440.9
-60°	144.6	163.5	227.4	290.8	349.5	402.2	408.5	414.1	419.0	423.2	426.7
-62.5°	102.0	113.5	129.6	144.6	158.4	188.8	232.8	271.9	306.0	335.2	359.1
-65°	93.8	96.4	98.9	101.1	103.6	115.0	125.3	134.5	142.5	149.3	154.9
-67.5°	78.5	83.2	87.5	91.5	94.0	95.7	97.2	98.6	99.8	100.8	101.6
-70°	67.1	69.1	71.1	73.5	76.8	79.8	82.5	84.9	87.0	88.7	90.2
-72.5°	58.8	60.5	62.2	63.8	65.2	66.5	67.7	68.7	69.6	70.4	71.1
-75°	50.4	51.9	53.4	54.7	55.9	57.0	58.0	58.9	59.6	60.3	60.8
-77.5°	42.1	43.3	44.5	45.6	46.6	47.5	48.3	49.1	49.7	50.3	50.7
-80°	33.7	34.7	35.6	36.5	37.3	38.0	38.7	39.3	39.8	40.2	40.6
-82.5°	25.3	26.0	26.7	27.4	28.0	28.5	29.0	29.5	29.8	30.2	30.4
-85°	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
-87.5°	16.9	17.4	17.8	18.3	18.7	19.0	19.4	19.6	19.9	20.1	20.3
-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: P699936 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-2R-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°	20.4	20.5	20.6	20.6	20.6	20.5	20.4	20.3	20.1	19.9	19.6
85°	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
82.5°	30.6	30.8	30.9	30.9	30.9	30.8	30.6	30.4	30.2	29.8	29.5
80°	40.8	41.0	41.2	41.2	41.2	41.0	40.8	40.6	40.2	39.8	39.3
77.5°	51.1	51.3	51.5	51.5	51.5	51.3	51.1	50.7	50.3	49.7	49.1
75°	61.3	61.6	61.7	61.8	61.7	61.6	61.3	60.8	60.3	59.6	58.9
72.5°	71.6	71.9	72.1	72.2	72.1	71.9	71.6	71.1	70.4	69.6	68.7
70°	91.3	92.1	92.6	92.8	92.6	92.1	91.3	90.2	88.7	87.0	84.9
67.5°	102.3	102.7	103.0	103.1	103.0	102.7	102.3	101.6	100.8	99.8	98.6
65°	159.3	162.4	164.3	164.9	164.3	162.4	159.3	154.9	149.3	142.5	134.5
62.5°	377.8	391.2	399.3	402.0	399.3	391.2	377.8	359.1	335.2	306.0	271.9
60°	429.4	431.3	432.5	432.9	432.5	431.3	429.4	426.7	423.2	419.0	414.1
57.5°	441.9	442.6	443.1	443.2	443.1	442.6	441.9	440.9	439.7	438.1	436.3
55°	514.4	520.7	524.4	525.7	524.4	520.7	514.4	505.7	494.5	481.0	465.1
52.5°	630.8	641.1	647.3	649.4	647.3	641.1	630.8	616.5	598.2	576.0	550.0
50°	744.2	754.5	760.7	762.8	760.7	754.5	744.2	729.8	711.5	689.4	663.4
47.5°	872.8	886.1	894.1	896.8	894.1	886.1	872.8	854.3	830.7	802.2	769.0
45°	1502.4	1583.8	1632.9	1649.3	1632.9	1583.8	1502.4	1389.2	1245.2	1071.2	891.8
42.5°	3539.7	3822.9	3993.9	4051.0	3993.9	3822.9	3539.7	3146.5	2646.5	2043.7	1553.2
40°	9923.1	10906.8	11500.9	11699.6	11500.9	10906.8	9923.1	8559.2	6827.7	4743.9	3509.0
37.5°	22023.5	23965.8	25140.1	25533.0	25140.1	23965.8	22023.5	19334.6	15927.3	11835.8	9155.4
35°	36389.6	38697.3	40094.3	40562.0	40094.3	38697.3	36389.6	33200.6	29168.8	24434.9	19303.4
32.5°	49543.8	51718.1	53036.3	53478.0	53036.3	51718.1	49543.8	46545.7	42765.9	37875.6	31834.2
30°	58218.9	59539.7	60342.0	60611.1	60342.0	59539.7	58218.9	56402.7	54120.7	49727.5	44097.0
27.5°	63062.4	63859.3	64344.6	64507.6	64344.6	63859.3	63062.4	61970.3	60597.9	57637.1	54261.6
25°	67838.2	69125.8	69912.4	70177.0	69912.4	69125.8	67838.2	66081.5	64086.7	62318.5	60068.5
22.5°	75044.9	77342.5	78752.1	79227.4	78752.1	77342.5	75044.9	71928.3	68860.7	66041.2	63381.8
20°	86366.1	90642.6	93281.4	94174.0	93281.4	90642.6	86366.1	80610.0	75793.7	70849.6	67145.2
17.5°	104532.4	112909.8	118121.7	119892.5	118121.7	112909.8	104532.4	93709.4	85854.8	77797.7	71794.6
15°	134754.8	152919.0	164355.6	168268.0	164355.6	152919.0	134754.8	115120.6	100004.0	87653.8	77797.7
12.5°	182045.8	221809.5	253420.5	265596.3	253420.5	221809.5	182045.8	149732.1	118792.1	100004.0	85854.8
10°	266742.7	340062.7	403626.6	427071.4	403626.6	340062.7	266742.7	195433.6	149732.1	115120.6	93709.4
7.5°	381562.7	531311.8	688112.2	755252.8	688112.2	531311.8	381562.7	266742.7	182045.8	134754.8	104532.4
5°	531311.8	827384.7	#####	#####	#####	827384.7	531311.8	340062.7	221809.5	152919.0	112909.8
2.5°	688112.2	#####	#####	#####	#####	688112.2	403626.6	253420.5	164355.6	118121.7	93709.4
0°	755252.8	#####	#####	#####	#####	755252.8	427071.4	265596.3	168268.0	119892.5	93709.4
-2.5°	688112.2	#####	#####	#####	#####	688112.2	403626.6	253420.5	164355.6	118121.7	93709.4
-5°	531311.8	827384.7	#####	#####	#####	827384.7	531311.8	340062.7	221809.5	152919.0	112909.8
-7.5°	381562.7	531311.8	688112.2	755252.8	688112.2	531311.8	381562.7	266742.7	182045.8	134754.8	104532.4
-10°	266742.7	340062.7	403626.6	427071.4	403626.6	340062.7	266742.7	195433.6	149732.1	115120.6	93709.4
-12.5°	182045.8	221809.5	253420.5	265596.3	253420.5	221809.5	182045.8	149732.1	118792.1	100004.0	85854.8
-15°	134754.8	152919.0	164355.6	168268.0	164355.6	152919.0	134754.8	115120.6	100004.0	87653.8	77797.7
-17.5°	104532.4	112909.8	118121.7	119892.5	118121.7	112909.8	104532.4	93709.4	85854.8	77797.7	71794.6
-20°	86366.1	90642.6	93281.4	94174.0	93281.4	90642.6	86366.1	80610.0	75793.7	70849.6	67145.2



REPORT NUMBER: P699936 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-2R-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	75044.9	77342.5	78752.1	79227.4	78752.1	77342.5	75044.9	71928.3	68860.7	66041.2	63381.8
-25°	67838.2	69125.8	69912.4	70177.0	69912.4	69125.8	67838.2	66081.5	64086.7	62318.5	60068.5
-27.5°	63062.4	63859.3	64344.6	64507.6	64344.6	63859.3	63062.4	61970.3	60597.9	57637.1	54261.6
-30°	58218.9	59539.7	60342.0	60611.1	60342.0	59539.7	58218.9	56402.7	54120.7	49727.5	44097.0
-32.5°	49543.8	51718.1	53036.3	53478.0	53036.3	51718.1	49543.8	46545.7	42765.9	37875.6	31834.2
-35°	36389.6	38697.3	40094.3	40562.0	40094.3	38697.3	36389.6	33200.6	29168.8	24434.9	19303.4
-37.5°	22023.5	23965.8	25140.1	25533.0	25140.1	23965.8	22023.5	19334.6	15927.3	11835.8	9155.4
-40°	9923.1	10906.8	11500.9	11699.6	11500.9	10906.8	9923.1	8559.2	6827.7	4743.9	3509.0
-42.5°	3539.7	3822.9	3993.9	4051.0	3993.9	3822.9	3539.7	3146.5	2646.5	2043.7	1553.2
-45°	1502.4	1583.8	1632.9	1649.3	1632.9	1583.8	1502.4	1389.2	1245.2	1071.2	891.8
-47.5°	872.8	886.1	894.1	896.8	894.1	886.1	872.8	854.3	830.7	802.2	769.0
-50°	744.2	754.5	760.7	762.8	760.7	754.5	744.2	729.8	711.5	689.4	663.4
-52.5°	630.8	641.1	647.3	649.4	647.3	641.1	630.8	616.5	598.2	576.0	550.0
-55°	514.4	520.7	524.4	525.7	524.4	520.7	514.4	505.7	494.5	481.0	465.1
-57.5°	441.9	442.6	443.1	443.2	443.1	442.6	441.9	440.9	439.7	438.1	436.3
-60°	429.4	431.3	432.5	432.9	432.5	431.3	429.4	426.7	423.2	419.0	414.1
-62.5°	377.8	391.2	399.3	402.0	399.3	391.2	377.8	359.1	335.2	306.0	271.9
-65°	159.3	162.4	164.3	164.9	164.3	162.4	159.3	154.9	149.3	142.5	134.5
-67.5°	102.3	102.7	103.0	103.1	103.0	102.7	102.3	101.6	100.8	99.8	98.6
-70°	91.3	92.1	92.6	92.8	92.6	92.1	91.3	90.2	88.7	87.0	84.9
-72.5°	71.6	71.9	72.1	72.2	72.1	71.9	71.6	71.1	70.4	69.6	68.7
-75°	61.3	61.6	61.7	61.8	61.7	61.6	61.3	60.8	60.3	59.6	58.9
-77.5°	51.1	51.3	51.5	51.5	51.5	51.3	51.1	50.7	50.3	49.7	49.1
-80°	40.8	41.0	41.2	41.2	41.2	41.0	40.8	40.6	40.2	39.8	39.3
-82.5°	30.6	30.8	30.9	30.9	30.9	30.8	30.6	30.4	30.2	29.8	29.5
-85°	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
-87.5°	20.4	20.5	20.6	20.6	20.6	20.5	20.4	20.3	20.1	19.9	19.6
-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: P699936 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-2R-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°	19.4	19.0	18.7	18.3	17.8	17.4	16.9	16.3	15.8	15.2	14.6
85°	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
82.5°	29.0	28.5	28.0	27.4	26.7	26.0	25.3	24.5	23.6	22.8	21.8
80°	38.7	38.0	37.3	36.5	35.6	34.7	33.7	32.6	31.5	30.3	29.1
77.5°	48.3	47.5	46.6	45.6	44.5	43.3	42.1	40.7	39.3	37.8	36.3
75°	58.0	57.0	55.9	54.7	53.4	51.9	50.4	48.8	47.1	45.3	43.4
72.5°	67.7	66.5	65.2	63.8	62.2	60.5	58.8	56.9	54.9	52.8	50.6
70°	82.5	79.8	76.8	73.5	71.1	69.1	67.1	64.9	62.6	60.2	57.7
67.5°	97.2	95.7	94.0	91.5	87.5	83.2	78.5	73.6	70.3	67.6	64.7
65°	125.3	115.0	103.6	101.1	98.9	96.4	93.8	89.4	83.6	77.6	71.7
62.5°	232.8	188.8	158.4	144.6	129.6	113.5	102.0	98.9	95.7	92.0	85.0
60°	408.5	402.2	349.5	290.8	227.4	163.5	144.6	124.6	103.6	99.5	95.7
57.5°	434.2	430.0	422.3	413.9	404.9	349.5	270.4	186.8	147.7	123.8	102.4
55°	447.0	441.1	438.3	435.3	430.2	419.7	408.5	361.0	265.9	166.5	138.4
52.5°	522.2	500.1	475.7	449.2	440.4	436.6	431.8	419.0	405.7	323.1	212.0
50°	632.5	596.5	556.9	517.8	487.0	454.0	440.2	435.6	426.7	411.7	357.8
47.5°	736.0	700.2	661.0	615.6	565.7	517.0	479.5	442.8	437.7	431.3	414.8
45°	850.8	805.1	756.3	710.4	661.3	605.4	545.3	496.8	453.0	438.8	432.9
42.5°	1304.1	1027.4	866.2	807.9	748.3	692.4	632.2	565.2	505.5	457.3	438.8
40°	2650.1	1698.1	1339.0	988.2	846.5	776.0	711.4	645.8	571.8	505.5	453.0
37.5°	6201.1	3700.7	2584.8	1566.7	1167.1	869.9	791.3	717.7	645.8	565.2	496.8
35°	13534.2	9199.1	5386.7	3188.2	1828.6	1257.6	877.8	791.3	711.4	632.2	545.3
32.5°	25103.9	18265.8	11244.3	6883.5	3493.6	1977.4	1257.6	869.9	776.0	692.4	605.4
30°	37367.7	29380.1	21162.2	12752.0	7386.9	3493.6	1828.6	1167.1	846.5	748.3	661.3
27.5°	48114.2	40737.1	31572.4	22137.6	12752.0	6883.5	3188.2	1566.7	988.2	807.9	710.4
25°	56022.1	50161.7	41722.2	31572.4	21162.2	11244.3	5386.7	2584.8	1339.0	866.2	756.3
22.5°	60994.3	56617.4	50161.7	40737.1	29380.1	18265.8	9199.1	3700.7	1698.1	1027.4	805.1
20°	63742.5	60994.3	56022.1	48114.2	37367.7	25103.9	13534.2	6201.1	2650.1	1304.1	850.8
17.5°	67145.2	63381.8	60068.5	54261.6	44097.0	31834.2	19303.4	9155.4	3509.0	1553.2	891.8
15°	70849.6	66041.2	62318.5	57637.1	49727.5	37875.6	24434.9	11835.8	4743.9	2043.7	1071.2
12.5°	75793.7	68860.7	64086.7	60597.9	54120.7	42765.9	29168.8	15927.3	6827.7	2646.5	1245.2
10°	80610.0	71928.3	66081.5	61970.3	56402.7	46545.7	33200.6	19334.6	8559.2	3146.5	1389.2
7.5°	86366.1	75044.9	67838.2	63062.4	58218.9	49543.8	36389.6	22023.5	9923.1	3539.7	1502.4
5°	90642.6	77342.5	69125.8	63859.3	59539.7	51718.1	38697.3	23965.8	10906.8	3822.9	1583.8
2.5°	93281.4	78752.1	69912.4	64344.6	60342.0	53036.3	40094.3	25140.1	11500.9	3993.9	1632.9
0°	94174.0	79227.4	70177.0	64507.6	60611.1	53478.0	40562.0	25533.0	11699.6	4051.0	1649.3
-2.5°	93281.4	78752.1	69912.4	64344.6	60342.0	53036.3	40094.3	25140.1	11500.9	3993.9	1632.9
-5°	90642.6	77342.5	69125.8	63859.3	59539.7	51718.1	38697.3	23965.8	10906.8	3822.9	1583.8
-7.5°	86366.1	75044.9	67838.2	63062.4	58218.9	49543.8	36389.6	22023.5	9923.1	3539.7	1502.4
-10°	80610.0	71928.3	66081.5	61970.3	56402.7	46545.7	33200.6	19334.6	8559.2	3146.5	1389.2
-12.5°	75793.7	68860.7	64086.7	60597.9	54120.7	42765.9	29168.8	15927.3	6827.7	2646.5	1245.2
-15°	70849.6	66041.2	62318.5	57637.1	49727.5	37875.6	24434.9	11835.8	4743.9	2043.7	1071.2
-17.5°	67145.2	63381.8	60068.5	54261.6	44097.0	31834.2	19303.4	9155.4	3509.0	1553.2	891.8
-20°	63742.5	60994.3	56022.1	48114.2	37367.7	25103.9	13534.2	6201.1	2650.1	1304.1	850.8



REPORT NUMBER: P699936 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-2R-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	60994.3	56617.4	50161.7	40737.1	29380.1	18265.8	9199.1	3700.7	1698.1	1027.4	805.1
-25°	56022.1	50161.7	41722.2	31572.4	21162.2	11244.3	5386.7	2584.8	1339.0	866.2	756.3
-27.5°	48114.2	40737.1	31572.4	22137.6	12752.0	6883.5	3188.2	1566.7	988.2	807.9	710.4
-30°	37367.7	29380.1	21162.2	12752.0	7386.9	3493.6	1828.6	1167.1	846.5	748.3	661.3
-32.5°	25103.9	18265.8	11244.3	6883.5	3493.6	1977.4	1257.6	869.9	776.0	692.4	605.4
-35°	13534.2	9199.1	5386.7	3188.2	1828.6	1257.6	877.8	791.3	711.4	632.2	545.3
-37.5°	6201.1	3700.7	2584.8	1566.7	1167.1	869.9	791.3	717.7	645.8	565.2	496.8
-40°	2650.1	1698.1	1339.0	988.2	846.5	776.0	711.4	645.8	571.8	505.5	453.0
-42.5°	1304.1	1027.4	866.2	807.9	748.3	692.4	632.2	565.2	505.5	457.3	438.8
-45°	850.8	805.1	756.3	710.4	661.3	605.4	545.3	496.8	453.0	438.8	432.9
-47.5°	736.0	700.2	661.0	615.6	565.7	517.0	479.5	442.8	437.7	431.3	414.8
-50°	632.5	596.5	556.9	517.8	487.0	454.0	440.2	435.6	426.7	411.7	357.8
-52.5°	522.2	500.1	475.7	449.2	440.4	436.6	431.8	419.0	405.7	323.1	212.0
-55°	447.0	441.1	438.3	435.3	430.2	419.7	408.5	361.0	265.9	166.5	138.4
-57.5°	434.2	430.0	422.3	413.9	404.9	349.5	270.4	186.8	147.7	123.8	102.4
-60°	408.5	402.2	349.5	290.8	227.4	163.5	144.6	124.6	103.6	99.5	95.7
-62.5°	232.8	188.8	158.4	144.6	129.6	113.5	102.0	98.9	95.7	92.0	85.0
-65°	125.3	115.0	103.6	101.1	98.9	96.4	93.8	89.4	83.6	77.6	71.7
-67.5°	97.2	95.7	94.0	91.5	87.5	83.2	78.5	73.6	70.3	67.6	64.7
-70°	82.5	79.8	76.8	73.5	71.1	69.1	67.1	64.9	62.6	60.2	57.7
-72.5°	67.7	66.5	65.2	63.8	62.2	60.5	58.8	56.9	54.9	52.8	50.6
-75°	58.0	57.0	55.9	54.7	53.4	51.9	50.4	48.8	47.1	45.3	43.4
-77.5°	48.3	47.5	46.6	45.6	44.5	43.3	42.1	40.7	39.3	37.8	36.3
-80°	38.7	38.0	37.3	36.5	35.6	34.7	33.7	32.6	31.5	30.3	29.1
-82.5°	29.0	28.5	28.0	27.4	26.7	26.0	25.3	24.5	23.6	22.8	21.8
-85°	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
-87.5°	19.4	19.0	18.7	18.3	17.8	17.4	16.9	16.3	15.8	15.2	14.6
-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: P699936 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-2R-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°	13.9	13.2	12.5	11.8	11.1	10.3	9.5	8.7	7.9	7.0	6.2
85°	20.6	20.6	20.6	20.6	20.6	20.6	19.0	17.4	15.7	14.1	12.4
82.5°	20.8	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	18.5
80°	27.8	26.4	25.0	23.6	22.1	20.6	20.6	20.6	20.6	20.6	20.6
77.5°	34.6	32.9	31.2	29.4	27.5	25.6	23.6	21.6	20.6	20.6	20.6
75°	41.5	39.5	37.3	35.2	32.9	30.6	28.3	25.9	23.4	20.9	20.6
72.5°	48.3	45.9	43.5	40.9	38.3	35.6	32.9	30.1	27.2	24.3	21.4
70°	55.0	52.3	49.5	46.6	43.6	40.6	37.4	34.2	31.0	27.7	24.3
67.5°	61.7	58.7	55.5	52.2	48.9	45.4	41.9	38.3	34.7	31.0	27.2
65°	68.4	65.0	61.4	57.8	54.1	50.3	46.4	42.4	38.3	34.2	30.1
62.5°	77.8	71.2	67.3	63.3	59.2	55.0	50.7	46.4	41.9	37.4	32.9
60°	90.7	82.5	74.0	68.7	64.2	59.6	55.0	50.3	45.4	40.6	35.6
57.5°	98.1	93.6	85.3	75.9	69.2	64.2	59.2	54.1	48.9	43.6	38.3
55°	110.5	99.5	94.6	86.3	75.9	68.7	63.3	57.8	52.2	46.6	40.9
52.5°	147.2	116.3	100.0	94.6	85.3	74.0	67.3	61.4	55.5	49.5	43.5
50°	234.9	150.2	116.3	99.5	93.6	82.5	71.2	65.0	58.7	52.3	45.9
47.5°	369.4	234.9	147.2	110.5	98.1	90.7	77.8	68.4	61.7	55.0	48.3
45°	414.8	357.8	212.0	138.4	102.4	95.7	85.0	71.7	64.7	57.7	50.6
42.5°	431.3	411.7	323.1	166.5	123.8	99.5	92.0	77.6	67.6	60.2	52.8
40°	437.7	426.7	405.7	265.9	147.7	103.6	95.7	83.6	70.3	62.6	54.9
37.5°	442.8	435.6	419.0	361.0	186.8	124.6	98.9	89.4	73.6	64.9	56.9
35°	479.5	440.2	431.8	408.5	270.4	144.6	102.0	93.8	78.5	67.1	58.8
32.5°	517.0	454.0	436.6	419.7	349.5	163.5	113.5	96.4	83.2	69.1	60.5
30°	565.7	487.0	440.4	430.2	404.9	227.4	129.6	98.9	87.5	71.1	62.2
27.5°	615.6	517.8	449.2	435.3	413.9	290.8	144.6	101.1	91.5	73.5	63.8
25°	661.0	556.9	475.7	438.3	422.3	349.5	158.4	103.6	94.0	76.8	65.2
22.5°	700.2	596.5	500.1	441.1	430.0	402.2	188.8	115.0	95.7	79.8	66.5
20°	736.0	632.5	522.2	447.0	434.2	408.5	232.8	125.3	97.2	82.5	67.7
17.5°	769.0	663.4	550.0	465.1	436.3	414.1	271.9	134.5	98.6	84.9	68.7
15°	802.2	689.4	576.0	481.0	438.1	419.0	306.0	142.5	99.8	87.0	69.6
12.5°	830.7	711.5	598.2	494.5	439.7	423.2	335.2	149.3	100.8	88.7	70.4
10°	854.3	729.8	616.5	505.7	440.9	426.7	359.1	154.9	101.6	90.2	71.1
7.5°	872.8	744.2	630.8	514.4	441.9	429.4	377.8	159.3	102.3	91.3	71.6
5°	886.1	754.5	641.1	520.7	442.6	431.3	391.2	162.4	102.7	92.1	71.9
2.5°	894.1	760.7	647.3	524.4	443.1	432.5	399.3	164.3	103.0	92.6	72.1
0°	896.8	762.8	649.4	525.7	443.2	432.9	402.0	164.9	103.1	92.8	72.2
-2.5°	894.1	760.7	647.3	524.4	443.1	432.5	399.3	164.3	103.0	92.6	72.1
-5°	886.1	754.5	641.1	520.7	442.6	431.3	391.2	162.4	102.7	92.1	71.9
-7.5°	872.8	744.2	630.8	514.4	441.9	429.4	377.8	159.3	102.3	91.3	71.6
-10°	854.3	729.8	616.5	505.7	440.9	426.7	359.1	154.9	101.6	90.2	71.1
-12.5°	830.7	711.5	598.2	494.5	439.7	423.2	335.2	149.3	100.8	88.7	70.4
-15°	802.2	689.4	576.0	481.0	438.1	419.0	306.0	142.5	99.8	87.0	69.6
-17.5°	769.0	663.4	550.0	465.1	436.3	414.1	271.9	134.5	98.6	84.9	68.7
-20°	736.0	632.5	522.2	447.0	434.2	408.5	232.8	125.3	97.2	82.5	67.7



REPORT NUMBER: P699936 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-2R-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	700.2	596.5	500.1	441.1	430.0	402.2	188.8	115.0	95.7	79.8	66.5
-25°	661.0	556.9	475.7	438.3	422.3	349.5	158.4	103.6	94.0	76.8	65.2
-27.5°	615.6	517.8	449.2	435.3	413.9	290.8	144.6	101.1	91.5	73.5	63.8
-30°	565.7	487.0	440.4	430.2	404.9	227.4	129.6	98.9	87.5	71.1	62.2
-32.5°	517.0	454.0	436.6	419.7	349.5	163.5	113.5	96.4	83.2	69.1	60.5
-35°	479.5	440.2	431.8	408.5	270.4	144.6	102.0	93.8	78.5	67.1	58.8
-37.5°	442.8	435.6	419.0	361.0	186.8	124.6	98.9	89.4	73.6	64.9	56.9
-40°	437.7	426.7	405.7	265.9	147.7	103.6	95.7	83.6	70.3	62.6	54.9
-42.5°	431.3	411.7	323.1	166.5	123.8	99.5	92.0	77.6	67.6	60.2	52.8
-45°	414.8	357.8	212.0	138.4	102.4	95.7	85.0	71.7	64.7	57.7	50.6
-47.5°	369.4	234.9	147.2	110.5	98.1	90.7	77.8	68.4	61.7	55.0	48.3
-50°	234.9	150.2	116.3	99.5	93.6	82.5	71.2	65.0	58.7	52.3	45.9
-52.5°	147.2	116.3	100.0	94.6	85.3	74.0	67.3	61.4	55.5	49.5	43.5
-55°	110.5	99.5	94.6	86.3	75.9	68.7	63.3	57.8	52.2	46.6	40.9
-57.5°	98.1	93.6	85.3	75.9	69.2	64.2	59.2	54.1	48.9	43.6	38.3
-60°	90.7	82.5	74.0	68.7	64.2	59.6	55.0	50.3	45.4	40.6	35.6
-62.5°	77.8	71.2	67.3	63.3	59.2	55.0	50.7	46.4	41.9	37.4	32.9
-65°	68.4	65.0	61.4	57.8	54.1	50.3	46.4	42.4	38.3	34.2	30.1
-67.5°	61.7	58.7	55.5	52.2	48.9	45.4	41.9	38.3	34.7	31.0	27.2
-70°	55.0	52.3	49.5	46.6	43.6	40.6	37.4	34.2	31.0	27.7	24.3
-72.5°	48.3	45.9	43.5	40.9	38.3	35.6	32.9	30.1	27.2	24.3	21.4
-75°	41.5	39.5	37.3	35.2	32.9	30.6	28.3	25.9	23.4	20.9	20.6
-77.5°	34.6	32.9	31.2	29.4	27.5	25.6	23.6	21.6	20.6	20.6	20.6
-80°	27.8	26.4	25.0	23.6	22.1	20.6	20.6	20.6	20.6	20.6	20.6
-82.5°	20.8	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	18.5
-85°	20.6	20.6	20.6	20.6	20.6	20.6	19.0	17.4	15.7	14.1	12.4
-87.5°	13.9	13.2	12.5	11.8	11.1	10.3	9.5	8.7	7.9	7.0	6.2
-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: P699936 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-2R-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°	5.3	4.5	3.6	2.7	1.8	0.9	0.0
85°	10.7	8.9	7.1	5.4	3.6	1.8	0.0
82.5°	16.0	13.3	10.7	8.0	5.4	2.7	0.0
80°	20.6	17.7	14.2	10.7	7.1	3.6	0.0
77.5°	20.6	20.6	17.7	13.3	8.9	4.5	0.0
75°	20.6	20.6	20.6	16.0	10.7	5.3	0.0
72.5°	20.6	20.6	20.6	18.5	12.4	6.2	0.0
70°	20.9	20.6	20.6	20.6	14.1	7.0	0.0
67.5°	23.4	20.6	20.6	20.6	15.7	7.9	0.0
65°	25.9	21.6	20.6	20.6	17.4	8.7	0.0
62.5°	28.3	23.6	20.6	20.6	19.0	9.5	0.0
60°	30.6	25.6	20.6	20.6	20.6	10.3	0.0
57.5°	32.9	27.5	22.1	20.6	20.6	11.1	0.0
55°	35.2	29.4	23.6	20.6	20.6	11.8	0.0
52.5°	37.3	31.2	25.0	20.6	20.6	12.5	0.0
50°	39.5	32.9	26.4	20.6	20.6	13.2	0.0
47.5°	41.5	34.6	27.8	20.8	20.6	13.9	0.0
45°	43.4	36.3	29.1	21.8	20.6	14.6	0.0
42.5°	45.3	37.8	30.3	22.8	20.6	15.2	0.0
40°	47.1	39.3	31.5	23.6	20.6	15.8	0.0
37.5°	48.8	40.7	32.6	24.5	20.6	16.3	0.0
35°	50.4	42.1	33.7	25.3	20.6	16.9	0.0
32.5°	51.9	43.3	34.7	26.0	20.6	17.4	0.0
30°	53.4	44.5	35.6	26.7	20.6	17.8	0.0
27.5°	54.7	45.6	36.5	27.4	20.6	18.3	0.0
25°	55.9	46.6	37.3	28.0	20.6	18.7	0.0
22.5°	57.0	47.5	38.0	28.5	20.6	19.0	0.0
20°	58.0	48.3	38.7	29.0	20.6	19.4	0.0
17.5°	58.9	49.1	39.3	29.5	20.6	19.6	0.0
15°	59.6	49.7	39.8	29.8	20.6	19.9	0.0
12.5°	60.3	50.3	40.2	30.2	20.6	20.1	0.0
10°	60.8	50.7	40.6	30.4	20.6	20.3	0.0
7.5°	61.3	51.1	40.8	30.6	20.6	20.4	0.0
5°	61.6	51.3	41.0	30.8	20.6	20.5	0.0
2.5°	61.7	51.5	41.2	30.9	20.6	20.6	0.0
0°	61.8	51.5	41.2	30.9	20.6	20.6	0.0
-2.5°	61.7	51.5	41.2	30.9	20.6	20.6	0.0
-5°	61.6	51.3	41.0	30.8	20.6	20.5	0.0
-7.5°	61.3	51.1	40.8	30.6	20.6	20.4	0.0
-10°	60.8	50.7	40.6	30.4	20.6	20.3	0.0
-12.5°	60.3	50.3	40.2	30.2	20.6	20.1	0.0
-15°	59.6	49.7	39.8	29.8	20.6	19.9	0.0
-17.5°	58.9	49.1	39.3	29.5	20.6	19.6	0.0
-20°	58.0	48.3	38.7	29.0	20.6	19.4	0.0



REPORT NUMBER: P699936 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-2R-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	57.0	47.5	38.0	28.5	20.6	19.0	0.0
-25°	55.9	46.6	37.3	28.0	20.6	18.7	0.0
-27.5°	54.7	45.6	36.5	27.4	20.6	18.3	0.0
-30°	53.4	44.5	35.6	26.7	20.6	17.8	0.0
-32.5°	51.9	43.3	34.7	26.0	20.6	17.4	0.0
-35°	50.4	42.1	33.7	25.3	20.6	16.9	0.0
-37.5°	48.8	40.7	32.6	24.5	20.6	16.3	0.0
-40°	47.1	39.3	31.5	23.6	20.6	15.8	0.0
-42.5°	45.3	37.8	30.3	22.8	20.6	15.2	0.0
-45°	43.4	36.3	29.1	21.8	20.6	14.6	0.0
-47.5°	41.5	34.6	27.8	20.8	20.6	13.9	0.0
-50°	39.5	32.9	26.4	20.6	20.6	13.2	0.0
-52.5°	37.3	31.2	25.0	20.6	20.6	12.5	0.0
-55°	35.2	29.4	23.6	20.6	20.6	11.8	0.0
-57.5°	32.9	27.5	22.1	20.6	20.6	11.1	0.0
-60°	30.6	25.6	20.6	20.6	20.6	10.3	0.0
-62.5°	28.3	23.6	20.6	20.6	19.0	9.5	0.0
-65°	25.9	21.6	20.6	20.6	17.4	8.7	0.0
-67.5°	23.4	20.6	20.6	20.6	15.7	7.9	0.0
-70°	20.9	20.6	20.6	20.6	14.1	7.0	0.0
-72.5°	20.6	20.6	20.6	18.5	12.4	6.2	0.0
-75°	20.6	20.6	20.6	16.0	10.7	5.3	0.0
-77.5°	20.6	20.6	17.7	13.3	8.9	4.5	0.0
-80°	20.6	17.7	14.2	10.7	7.1	3.6	0.0
-82.5°	16.0	13.3	10.7	8.0	5.4	2.7	0.0
-85°	10.7	8.9	7.1	5.4	3.6	1.8	0.0
-87.5°	5.3	4.5	3.6	2.7	1.8	0.9	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)