

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: P699955 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200R-40-80-4S-S**

Issue Date: 8/10/2023

Test Information

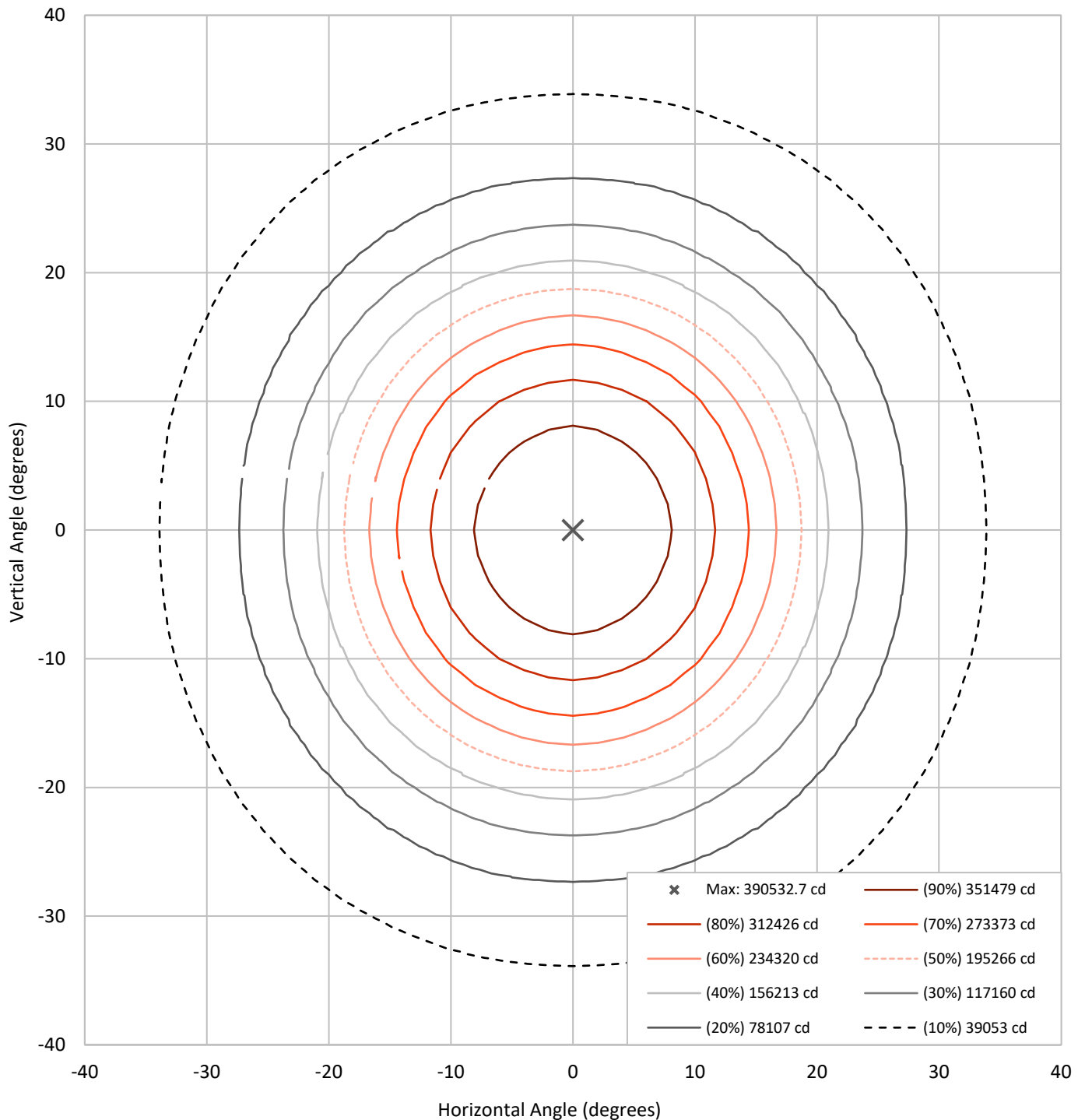
Test Method: LM-79-08
Report Number: P699955 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-12)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200R-40-80-4S-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 4000K, 80 CRI LEDS AND 4S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	186369.6 lumens	Max Intensity:	390532.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	149.7 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	37.5°H x 37.5°V	Field Angle (10%):	67.8°H x 67.8°V
Beam Lumens:	94817.6 lumens	Field Lumens:	163969.3 lumens
Beam Efficiency:	50.9%	Field Efficiency:	88.0%
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





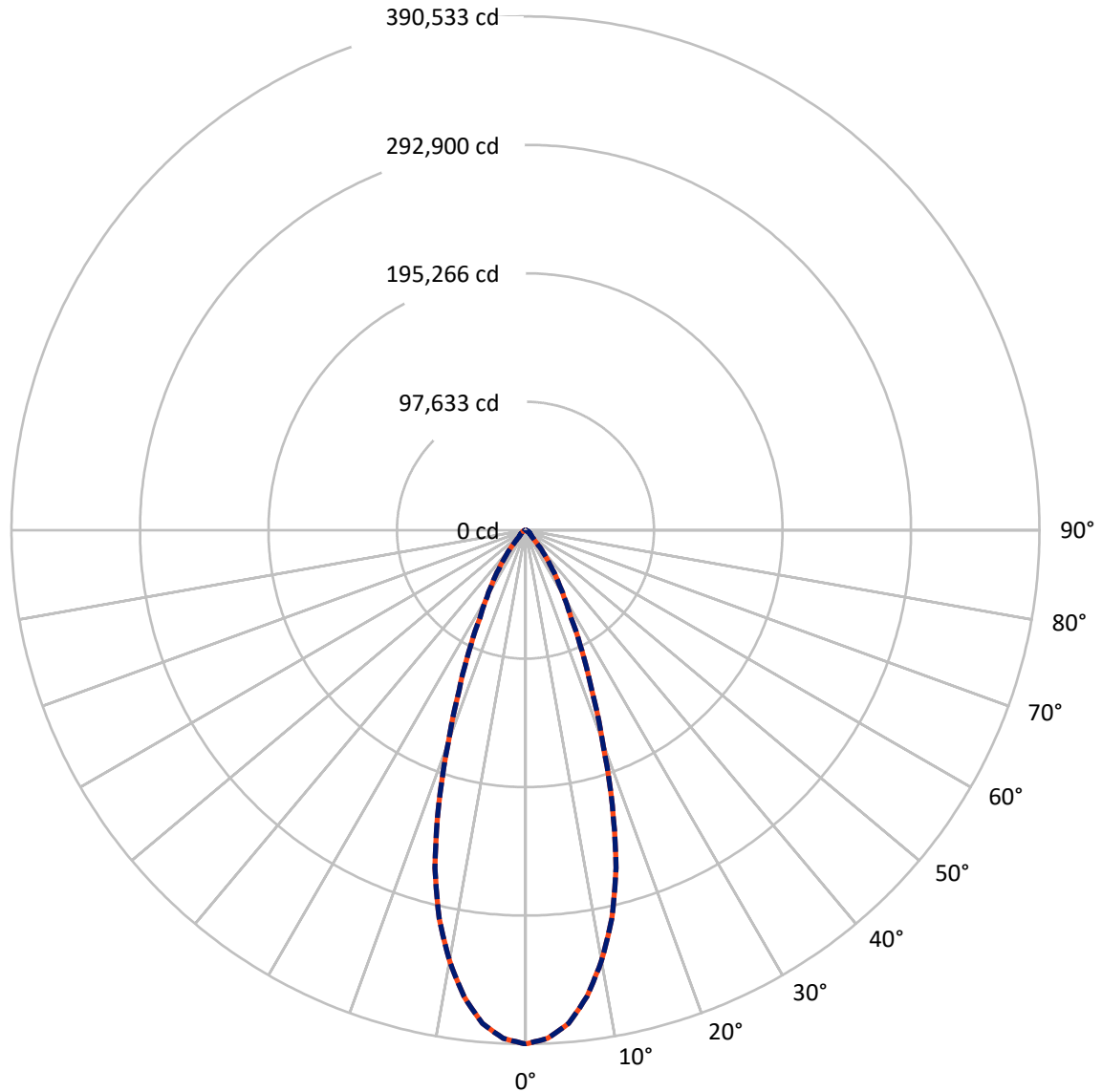
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Lumen Table

90	0.1	1.2		6.0		15.3		20.1		15.3		6.0		1.2		0.1
80	0.1	1.2		6.0		15.3		20.1		15.3		6.0		1.2		0.1
70	0.6	1.0	4.0	11.0	22.0	34.6	45.6	51.7	51.7	45.6	34.6	22.0	11.0	4.0	1.0	0.6
60		3.0	12.8	32.5	58.6	83.8	103.4	114.4	114.4	103.4	83.8	58.6	32.5	12.8	3.0	
50	2.1	6.8	26.6	59.8	97.1	138.3	192.4	243.0	243.0	192.4	138.3	97.1	59.8	26.6	6.8	2.1
40		11.8	41.4	84.0	148.0	351.7	728.8	1021.1	1021.1	728.8	351.7	148.0	84.0	41.4	11.8	
30	4.6	16.7	53.6	108.4	320.0	992.5	2015.7	3006.3	3006.3	2015.7	992.5	320.0	108.4	53.6	16.7	4.6
20		20.6	62.0	142.3	624.4	1898.4	4584.5	7339.9	7339.9	4584.5	1898.4	624.4	142.3	62.0	20.6	
10	5.7	22.7	66.6	175.3	848.9	2752.4	7132.2	10637.1	10637.1	7132.2	2752.4	848.9	175.3	66.6	22.7	5.7
0		22.7	66.6	175.3	848.9	2752.4	7132.2	10637.1	10637.1	7132.2	2752.4	848.9	175.3	66.6	22.7	
-10	4.6	20.6	62.0	142.3	624.4	1898.4	4584.5	7339.9	7339.9	4584.5	1898.4	624.4	142.3	62.0	20.6	4.6
-20		16.7	53.6	108.4	320.0	992.5	2015.7	3006.3	3006.3	2015.7	992.5	320.0	108.4	53.6	16.7	
-30	2.1	11.8	41.4	84.0	148.0	351.7	728.8	1021.1	1021.1	728.8	351.7	148.0	84.0	41.4	11.8	2.1
-40		6.8	26.6	59.8	97.1	138.3	192.4	243.0	243.0	192.4	138.3	97.1	59.8	26.6	6.8	
-50	0.6	3.0	12.8	32.5	58.6	83.8	103.4	114.4	114.4	103.4	83.8	58.6	32.5	12.8	3.0	0.6
-60		1.0	4.0	11.0	22.0	34.6	45.6	51.7	51.7	45.6	34.6	22.0	11.0	4.0	1.0	
-70	0.1	1.2		6.0		15.3		20.1		15.3		6.0		1.2		0.1
-80		1.2		6.0		15.3		20.1		15.3		6.0		1.2		
-90	0.1	1.2		6.0		15.3		20.1		15.3		6.0		1.2		0.1

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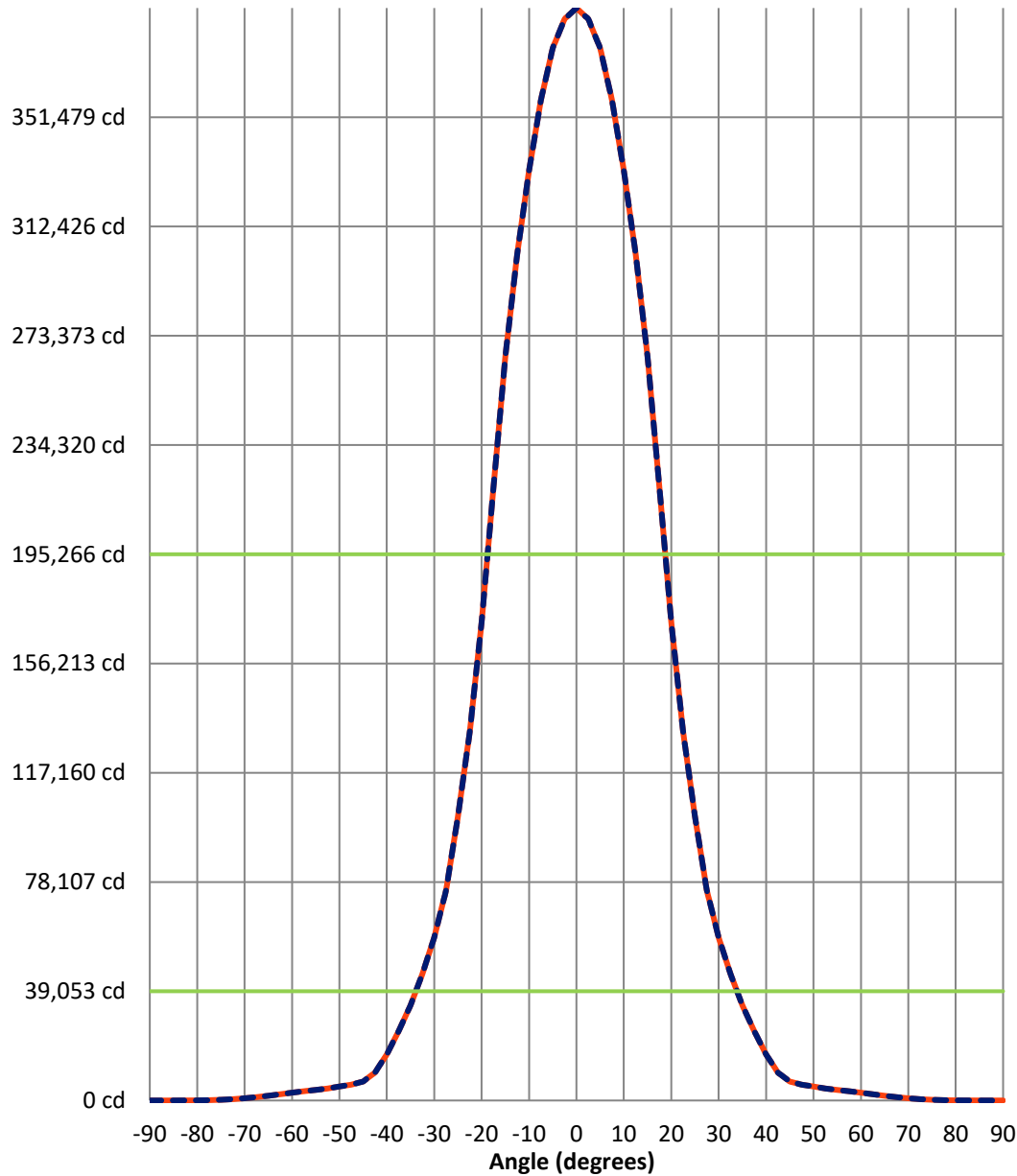
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 37.5°
V Angle: 37.5°
Lumens: 94817.6
Efficiency: 50.9%

Field:
H Angle: 67.8°
V Angle: 67.8°
Lumens: 163969.3
Efficiency: 88.0%

Spill:
Lumens: 22400.3
Efficiency: 12.0%

— 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	0.1	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.2
85°	0.0	0.3	0.5	0.8	1.0	1.3	1.5	1.7	2.0	2.2	2.4
82.5°	0.0	0.4	0.8	1.1	1.5	1.9	2.2	2.6	3.1	4.0	4.9
80°	0.0	0.5	1.0	1.5	2.0	2.5	3.1	4.4	5.7	6.9	8.2
77.5°	0.0	0.6	1.3	1.9	2.5	3.5	5.1	6.7	8.3	9.8	12.3
75°	0.0	0.8	1.5	2.2	3.1	5.1	7.0	8.9	11.1	15.3	19.5
72.5°	0.0	0.9	1.7	2.6	4.4	6.7	8.9	11.9	16.8	21.7	26.5
70°	0.0	1.0	2.0	3.1	5.7	8.3	11.1	16.8	22.5	28.1	35.1
67.5°	0.0	1.1	2.2	4.0	6.9	9.8	15.3	21.7	28.1	36.0	43.9
65°	0.0	1.2	2.4	4.9	8.2	12.3	19.5	26.5	35.1	43.9	58.4
62.5°	0.0	1.3	2.7	5.8	9.4	15.7	23.5	32.2	41.9	55.2	86.7
60°	0.0	1.4	2.9	6.7	10.5	19.0	27.5	38.0	48.6	80.2	114.4
57.5°	0.0	1.6	3.5	7.6	13.0	22.2	32.3	43.8	67.3	104.6	157.6
55°	0.0	1.7	4.0	8.4	15.6	25.3	37.1	49.4	88.5	133.1	207.3
52.5°	0.0	1.8	4.6	9.2	18.0	28.5	41.7	66.0	109.1	176.7	255.8
50°	0.0	1.9	5.1	10.0	20.3	32.3	46.3	83.5	134.2	219.0	325.4
47.5°	0.0	2.0	5.6	11.0	22.6	35.9	52.1	100.4	170.5	259.9	395.5
45°	0.0	2.1	6.1	12.6	24.8	39.4	66.0	116.7	205.5	320.1	463.1
42.5°	0.0	2.1	6.5	14.2	26.9	42.8	79.3	140.2	239.1	378.4	557.8
40°	0.0	2.2	7.0	15.7	29.2	46.0	92.0	168.2	276.8	434.2	653.4
37.5°	0.0	2.3	7.4	17.1	31.6	49.0	104.1	194.9	323.8	495.3	744.5
35°	0.0	2.4	7.8	18.5	33.9	56.2	115.6	220.1	368.4	572.6	839.3
32.5°	0.0	2.4	8.2	19.7	36.0	65.2	129.2	243.8	410.4	645.6	941.4
30°	0.0	2.5	8.5	20.9	38.1	73.5	148.1	268.8	449.7	713.9	1037.1
27.5°	0.0	2.6	8.9	22.0	39.9	81.3	165.7	300.6	493.5	777.5	1126.2
25°	0.0	2.6	9.2	23.0	41.6	88.4	181.9	329.8	545.2	845.7	1209.1
22.5°	0.0	2.7	9.4	23.9	43.2	94.9	196.6	356.5	592.4	912.7	1298.6
20°	0.0	2.7	9.7	24.8	44.6	100.8	209.9	380.6	634.9	973.1	1379.4
17.5°	0.0	2.8	9.9	25.5	45.9	106.0	221.8	401.9	672.7	1026.8	1451.3
15°	0.0	2.8	10.1	26.1	47.0	110.5	232.0	420.5	705.6	1073.7	1514.0
12.5°	0.0	2.8	10.2	26.7	47.9	114.4	240.8	436.4	733.7	1113.6	1567.5
10°	0.0	2.9	10.4	27.1	48.6	117.6	248.0	449.4	756.7	1146.4	1611.4
7.5°	0.0	2.9	10.5	27.5	49.2	120.0	253.6	459.5	774.7	1172.0	1645.7
5°	0.0	2.9	10.5	27.7	49.7	121.8	257.6	466.8	787.6	1190.3	1670.3
2.5°	0.0	2.9	10.6	27.9	49.9	122.8	260.0	471.1	795.3	1201.3	1685.1
0°	0.0	2.9	10.6	27.9	50.0	123.2	260.8	472.6	797.9	1205.0	1690.0
-2.5°	0.0	2.9	10.6	27.9	49.9	122.8	260.0	471.1	795.3	1201.3	1685.1
-5°	0.0	2.9	10.5	27.7	49.7	121.8	257.6	466.8	787.6	1190.3	1670.3
-7.5°	0.0	2.9	10.5	27.5	49.2	120.0	253.6	459.5	774.7	1172.0	1645.7
-10°	0.0	2.9	10.4	27.1	48.6	117.6	248.0	449.4	756.7	1146.4	1611.4
-12.5°	0.0	2.8	10.2	26.7	47.9	114.4	240.8	436.4	733.7	1113.6	1567.5
-15°	0.0	2.8	10.1	26.1	47.0	110.5	232.0	420.5	705.6	1073.7	1514.0
-17.5°	0.0	2.8	9.9	25.5	45.9	106.0	221.8	401.9	672.7	1026.8	1451.3
-20°	0.0	2.7	9.7	24.8	44.6	100.8	209.9	380.6	634.9	973.1	1379.4



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 CATALOG NUMBER: EPH-LS-16-1200R-40-80-4S-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	2.7	9.4	23.9	43.2	94.9	196.6	356.5	592.4	912.7	1298.6
-25°	0.0	2.6	9.2	23.0	41.6	88.4	181.9	329.8	545.2	845.7	1209.1
-27.5°	0.0	2.6	8.9	22.0	39.9	81.3	165.7	300.6	493.5	777.5	1126.2
-30°	0.0	2.5	8.5	20.9	38.1	73.5	148.1	268.8	449.7	713.9	1037.1
-32.5°	0.0	2.4	8.2	19.7	36.0	65.2	129.2	243.8	410.4	645.6	941.4
-35°	0.0	2.4	7.8	18.5	33.9	56.2	115.6	220.1	368.4	572.6	839.3
-37.5°	0.0	2.3	7.4	17.1	31.6	49.0	104.1	194.9	323.8	495.3	744.5
-40°	0.0	2.2	7.0	15.7	29.2	46.0	92.0	168.2	276.8	434.2	653.4
-42.5°	0.0	2.1	6.5	14.2	26.9	42.8	79.3	140.2	239.1	378.4	557.8
-45°	0.0	2.1	6.1	12.6	24.8	39.4	66.0	116.7	205.5	320.1	463.1
-47.5°	0.0	2.0	5.6	11.0	22.6	35.9	52.1	100.4	170.5	259.9	395.5
-50°	0.0	1.9	5.1	10.0	20.3	32.3	46.3	83.5	134.2	219.0	325.4
-52.5°	0.0	1.8	4.6	9.2	18.0	28.5	41.7	66.0	109.1	176.7	255.8
-55°	0.0	1.7	4.0	8.4	15.6	25.3	37.1	49.4	88.5	133.1	207.3
-57.5°	0.0	1.6	3.5	7.6	13.0	22.2	32.3	43.8	67.3	104.6	157.6
-60°	0.0	1.4	2.9	6.7	10.5	19.0	27.5	38.0	48.6	80.2	114.4
-62.5°	0.0	1.3	2.7	5.8	9.4	15.7	23.5	32.2	41.9	55.2	86.7
-65°	0.0	1.2	2.4	4.9	8.2	12.3	19.5	26.5	35.1	43.9	58.4
-67.5°	0.0	1.1	2.2	4.0	6.9	9.8	15.3	21.7	28.1	36.0	43.9
-70°	0.0	1.0	2.0	3.1	5.7	8.3	11.1	16.8	22.5	28.1	35.1
-72.5°	0.0	0.9	1.7	2.6	4.4	6.7	8.9	11.9	16.8	21.7	26.5
-75°	0.0	0.8	1.5	2.2	3.1	5.1	7.0	8.9	11.1	15.3	19.5
-77.5°	0.0	0.6	1.3	1.9	2.5	3.5	5.1	6.7	8.3	9.8	12.3
-80°	0.0	0.5	1.0	1.5	2.0	2.5	3.1	4.4	5.7	6.9	8.2
-82.5°	0.0	0.4	0.8	1.1	1.5	1.9	2.2	2.6	3.1	4.0	4.9
-85°	0.0	0.3	0.5	0.8	1.0	1.3	1.5	1.7	2.0	2.2	2.4
-87.5°	0.0	0.1	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.2
-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-40-80-4S-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°	1.3	1.4	1.6	1.7	1.8	1.9	2.0	2.1	2.1	2.2	2.3
85°	2.7	2.9	3.5	4.0	4.6	5.1	5.6	6.1	6.5	7.0	7.4
82.5°	5.8	6.7	7.6	8.4	9.2	10.0	11.0	12.6	14.2	15.7	17.1
80°	9.4	10.5	13.0	15.6	18.0	20.3	22.6	24.8	26.9	29.2	31.6
77.5°	15.7	19.0	22.2	25.3	28.5	32.3	35.9	39.4	42.8	46.0	49.0
75°	23.5	27.5	32.3	37.1	41.7	46.3	52.1	66.0	79.3	92.0	104.1
72.5°	32.2	38.0	43.8	49.4	66.0	83.5	100.4	116.7	140.2	168.2	194.9
70°	41.9	48.6	67.3	88.5	109.1	134.2	170.5	205.5	239.1	276.8	323.8
67.5°	55.2	80.2	104.6	133.1	176.7	219.0	259.9	320.1	378.4	434.2	495.3
65°	86.7	114.4	157.6	207.3	255.8	325.4	395.5	463.1	557.8	653.4	744.5
62.5°	117.7	169.9	225.8	291.1	373.1	452.8	560.7	675.2	785.3	914.3	1040.4
60°	169.9	232.0	310.3	401.9	501.3	634.9	764.4	912.7	1063.6	1209.1	1373.9
57.5°	225.8	310.3	411.6	531.1	679.8	831.2	1007.0	1177.2	1367.4	1555.2	1740.2
55°	291.1	401.9	531.1	694.8	869.0	1064.1	1263.0	1481.9	1693.7	1921.6	2139.8
52.5°	373.1	501.3	679.8	869.0	1083.2	1308.9	1551.3	1798.0	2052.9	2300.3	2542.8
50°	452.8	634.9	831.2	1064.1	1308.9	1574.5	1850.6	2132.4	2410.5	2681.6	2932.3
47.5°	560.7	764.4	1007.0	1263.0	1551.3	1850.6	2159.1	2466.0	2765.7	3038.3	3298.8
45°	675.2	912.7	1177.2	1481.9	1798.0	2132.4	2466.0	2793.9	3091.7	3372.6	3618.2
42.5°	785.3	1063.6	1367.4	1693.7	2052.9	2410.5	2765.7	3091.7	3396.7	3667.0	3941.3
40°	914.3	1209.1	1555.2	1921.6	2300.3	2681.6	3038.3	3372.6	3667.0	3968.4	4270.0
37.5°	1040.4	1373.9	1740.2	2139.8	2542.8	2932.3	3298.8	3618.2	3941.3	4270.0	4720.9
35°	1160.2	1530.6	1931.9	2351.3	2774.2	3165.0	3521.4	3860.3	4214.7	4680.4	5147.0
32.5°	1286.4	1678.7	2113.3	2554.3	2980.8	3378.3	3731.4	4105.3	4559.4	5072.6	5528.5
30°	1412.8	1833.3	2285.5	2745.5	3174.4	3563.0	3943.5	4360.4	4915.9	5414.7	6066.1
27.5°	1530.6	1978.8	2449.5	2915.8	3351.2	3736.2	4146.9	4674.1	5227.6	5796.7	6667.6
25°	1639.4	2113.3	2601.4	3070.6	3500.0	3907.7	4358.8	4966.7	5510.3	6324.8	8038.8
22.5°	1744.8	2236.6	2740.6	3212.7	3636.6	4069.2	4609.3	5214.0	5855.8	6856.9	9526.1
20°	1845.6	2351.3	2861.9	3338.7	3760.6	4215.9	4837.3	5435.6	6272.3	8125.9	11818.9
17.5°	1935.4	2453.5	2966.9	3440.3	3879.6	4374.4	5038.4	5634.6	6647.2	9270.6	14327.8
15°	2013.7	2542.8	3058.8	3529.3	3985.5	4539.8	5199.9	5921.7	7317.6	10581.4	16570.4
12.5°	2080.5	2618.9	3137.1	3605.3	4076.0	4681.3	5338.4	6183.6	8121.1	12351.1	19033.9
10°	2135.4	2681.6	3201.7	3668.0	4150.6	4798.2	5452.8	6400.4	8787.4	13821.5	21085.3
7.5°	2178.4	2730.6	3252.2	3717.0	4209.1	4889.8	5542.6	6570.7	9311.5	14979.7	22704.3
5°	2209.1	2765.7	3288.4	3752.2	4251.1	4955.6	5607.2	6693.3	9689.0	15815.1	23873.7
2.5°	2227.6	2786.8	3310.2	3773.3	4276.4	4995.3	5646.1	6767.2	9916.8	16319.7	24580.7
0°	2233.8	2793.9	3317.5	3780.4	4284.8	5008.5	5659.1	6791.9	9993.0	16488.4	24817.3
-2.5°	2227.6	2786.8	3310.2	3773.3	4276.4	4995.3	5646.1	6767.2	9916.8	16319.7	24580.7
-5°	2209.1	2765.7	3288.4	3752.2	4251.1	4955.6	5607.2	6693.3	9689.0	15815.1	23873.7
-7.5°	2178.4	2730.6	3252.2	3717.0	4209.1	4889.8	5542.6	6570.7	9311.5	14979.7	22704.3
-10°	2135.4	2681.6	3201.7	3668.0	4150.6	4798.2	5452.8	6400.4	8787.4	13821.5	21085.3
-12.5°	2080.5	2618.9	3137.1	3605.3	4076.0	4681.3	5338.4	6183.6	8121.1	12351.1	19033.9
-15°	2013.7	2542.8	3058.8	3529.3	3985.5	4539.8	5199.9	5921.7	7317.6	10581.4	16570.4
-17.5°	1935.4	2453.5	2966.9	3440.3	3879.6	4374.4	5038.4	5634.6	6647.2	9270.6	14327.8
-20°	1845.6	2351.3	2861.9	3338.7	3760.6	4215.9	4837.3	5435.6	6272.3	8125.9	11818.9



REPORT NUMBER: P699955 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-4S-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1744.8	2236.6	2740.6	3212.7	3636.6	4069.2	4609.3	5214.0	5855.8	6856.9	9526.1
-25°	1639.4	2113.3	2601.4	3070.6	3500.0	3907.7	4358.8	4966.7	5510.3	6324.8	8038.8
-27.5°	1530.6	1978.8	2449.5	2915.8	3351.2	3736.2	4146.9	4674.1	5227.6	5796.7	6667.6
-30°	1412.8	1833.3	2285.5	2745.5	3174.4	3563.0	3943.5	4360.4	4915.9	5414.7	6066.1
-32.5°	1286.4	1678.7	2113.3	2554.3	2980.8	3378.3	3731.4	4105.3	4559.4	5072.6	5528.5
-35°	1160.2	1530.6	1931.9	2351.3	2774.2	3165.0	3521.4	3860.3	4214.7	4680.4	5147.0
-37.5°	1040.4	1373.9	1740.2	2139.8	2542.8	2932.3	3298.8	3618.2	3941.3	4270.0	4720.9
-40°	914.3	1209.1	1555.2	1921.6	2300.3	2681.6	3038.3	3372.6	3667.0	3968.4	4270.0
-42.5°	785.3	1063.6	1367.4	1693.7	2052.9	2410.5	2765.7	3091.7	3396.7	3667.0	3941.3
-45°	675.2	912.7	1177.2	1481.9	1798.0	2132.4	2466.0	2793.9	3091.7	3372.6	3618.2
-47.5°	560.7	764.4	1007.0	1263.0	1551.3	1850.6	2159.1	2466.0	2765.7	3038.3	3298.8
-50°	452.8	634.9	831.2	1064.1	1308.9	1574.5	1850.6	2132.4	2410.5	2681.6	2932.3
-52.5°	373.1	501.3	679.8	869.0	1083.2	1308.9	1551.3	1798.0	2052.9	2300.3	2542.8
-55°	291.1	401.9	531.1	694.8	869.0	1064.1	1263.0	1481.9	1693.7	1921.6	2139.8
-57.5°	225.8	310.3	411.6	531.1	679.8	831.2	1007.0	1177.2	1367.4	1555.2	1740.2
-60°	169.9	232.0	310.3	401.9	501.3	634.9	764.4	912.7	1063.6	1209.1	1373.9
-62.5°	117.7	169.9	225.8	291.1	373.1	452.8	560.7	675.2	785.3	914.3	1040.4
-65°	86.7	114.4	157.6	207.3	255.8	325.4	395.5	463.1	557.8	653.4	744.5
-67.5°	55.2	80.2	104.6	133.1	176.7	219.0	259.9	320.1	378.4	434.2	495.3
-70°	41.9	48.6	67.3	88.5	109.1	134.2	170.5	205.5	239.1	276.8	323.8
-72.5°	32.2	38.0	43.8	49.4	66.0	83.5	100.4	116.7	140.2	168.2	194.9
-75°	23.5	27.5	32.3	37.1	41.7	46.3	52.1	66.0	79.3	92.0	104.1
-77.5°	15.7	19.0	22.2	25.3	28.5	32.3	35.9	39.4	42.8	46.0	49.0
-80°	9.4	10.5	13.0	15.6	18.0	20.3	22.6	24.8	26.9	29.2	31.6
-82.5°	5.8	6.7	7.6	8.4	9.2	10.0	11.0	12.6	14.2	15.7	17.1
-85°	2.7	2.9	3.5	4.0	4.6	5.1	5.6	6.1	6.5	7.0	7.4
-87.5°	1.3	1.4	1.6	1.7	1.8	1.9	2.0	2.1	2.1	2.2	2.3
-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: P699955 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-4S-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°	2.4	2.4	2.5	2.6	2.6	2.7	2.7	2.8	2.8	2.8	2.9
85°	7.8	8.2	8.5	8.9	9.2	9.4	9.7	9.9	10.1	10.2	10.4
82.5°	18.5	19.7	20.9	22.0	23.0	23.9	24.8	25.5	26.1	26.7	27.1
80°	33.9	36.0	38.1	39.9	41.6	43.2	44.6	45.9	47.0	47.9	48.6
77.5°	56.2	65.2	73.5	81.3	88.4	94.9	100.8	106.0	110.5	114.4	117.6
75°	115.6	129.2	148.1	165.7	181.9	196.6	209.9	221.8	232.0	240.8	248.0
72.5°	220.1	243.8	268.8	300.6	329.8	356.5	380.6	401.9	420.5	436.4	449.4
70°	368.4	410.4	449.7	493.5	545.2	592.4	634.9	672.7	705.6	733.7	756.7
67.5°	572.6	645.6	713.9	777.5	845.7	912.7	973.1	1026.8	1073.7	1113.6	1146.4
65°	839.3	941.4	1037.1	1126.2	1209.1	1298.6	1379.4	1451.3	1514.0	1567.5	1611.4
62.5°	1160.2	1286.4	1412.8	1530.6	1639.4	1744.8	1845.6	1935.4	2013.7	2080.5	2135.4
60°	1530.6	1678.7	1833.3	1978.8	2113.3	2236.6	2351.3	2453.5	2542.8	2618.9	2681.6
57.5°	1931.9	2113.3	2285.5	2449.5	2601.4	2740.6	2861.9	2966.9	3058.8	3137.1	3201.7
55°	2351.3	2554.3	2745.5	2915.8	3070.6	3212.7	3338.7	3440.3	3529.3	3605.3	3668.0
52.5°	2774.2	2980.8	3174.4	3351.2	3500.0	3636.6	3760.6	3879.6	3985.5	4076.0	4150.6
50°	3165.0	3378.3	3563.0	3736.2	3907.7	4069.2	4215.9	4374.4	4539.8	4681.3	4798.2
47.5°	3521.4	3731.4	3943.5	4146.9	4358.8	4609.3	4837.3	5038.4	5199.9	5338.4	5452.8
45°	3860.3	4105.3	4360.4	4674.1	4966.7	5214.0	5435.6	5634.6	5921.7	6183.6	6400.4
42.5°	4214.7	4559.4	4915.9	5227.6	5510.3	5855.8	6272.3	6647.2	7317.6	8121.1	8787.4
40°	4680.4	5072.6	5414.7	5796.7	6324.8	6856.9	8125.9	9270.6	10581.4	12351.1	13821.5
37.5°	5147.0	5528.5	6066.1	6667.6	8038.8	9526.1	11818.9	14327.8	16570.4	19033.9	21085.3
35°	5566.7	6202.2	7030.9	8843.0	11127.3	14364.9	17593.0	21066.5	24156.2	27048.5	29522.7
32.5°	6202.2	7229.2	9250.1	12398.5	16101.7	20441.8	24559.0	28684.2	32391.7	35949.5	39224.1
30°	7030.9	9250.1	12826.0	17122.0	22185.7	27178.2	32080.1	37102.7	41980.5	46405.6	50581.4
27.5°	8843.0	12398.5	17122.0	22773.0	28523.5	34192.0	40582.9	46663.5	52840.2	58258.0	64174.2
25°	11127.3	16101.7	22185.7	28523.5	35045.4	42356.7	49885.0	57289.2	65683.3	73348.4	82491.7
22.5°	14364.9	20441.8	27178.2	34192.0	42356.7	50974.2	59943.1	70292.9	82304.4	95414.9	107402.5
20°	17593.0	24559.0	32080.1	40582.9	49885.0	59943.1	71856.3	87437.9	103788.9	120351.1	135479.8
17.5°	21066.5	28684.2	37102.7	46663.5	57289.2	70292.9	87437.9	106954.6	127064.2	149235.9	169836.8
15°	24156.2	32391.7	41980.5	52840.2	65683.3	82304.4	103788.9	127064.2	153954.3	181968.2	210264.0
12.5°	27048.5	35949.5	46405.6	58258.0	73348.4	95414.9	120351.1	149235.9	181968.2	217136.5	247966.3
10°	29522.7	39224.1	50581.4	64174.2	82491.7	107402.5	135479.8	169836.8	210264.0	247966.3	279604.6
7.5°	31479.8	41821.4	53904.8	68908.2	90660.3	117842.6	150576.9	190444.6	233525.8	272820.0	302793.6
5°	32896.0	43705.0	56321.6	72362.7	96647.7	125539.4	161793.2	206125.8	251038.9	289256.5	319274.6
2.5°	33753.3	44846.9	57789.7	74466.4	100305.4	130261.3	168714.4	215881.6	262065.6	299211.9	329019.3
0°	34040.3	45229.6	58282.1	75172.9	101535.9	131853.5	171055.4	219196.3	265837.8	302485.4	332392.1
-2.5°	33753.3	44846.9	57789.7	74466.4	100305.4	130261.3	168714.4	215881.6	262065.6	299211.9	329019.3
-5°	32896.0	43705.0	56321.6	72362.7	96647.7	125539.4	161793.2	206125.8	251038.9	289256.5	319274.6
-7.5°	31479.8	41821.4	53904.8	68908.2	90660.3	117842.6	150576.9	190444.6	233525.8	272820.0	302793.6
-10°	29522.7	39224.1	50581.4	64174.2	82491.7	107402.5	135479.8	169836.8	210264.0	247966.3	279604.6
-12.5°	27048.5	35949.5	46405.6	58258.0	73348.4	95414.9	120351.1	149235.9	181968.2	217136.5	247966.3
-15°	24156.2	32391.7	41980.5	52840.2	65683.3	82304.4	103788.9	127064.2	153954.3	181968.2	210264.0
-17.5°	21066.5	28684.2	37102.7	46663.5	57289.2	70292.9	87437.9	106954.6	127064.2	149235.9	169836.8
-20°	17593.0	24559.0	32080.1	40582.9	49885.0	59943.1	71856.3	87437.9	103788.9	120351.1	135479.8



REPORT NUMBER: P699955 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-4S-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	14364.9	20441.8	27178.2	34192.0	42356.7	50974.2	59943.1	70292.9	82304.4	95414.9	107402.5
-25°	11127.3	16101.7	22185.7	28523.5	35045.4	42356.7	49885.0	57289.2	65683.3	73348.4	82491.7
-27.5°	8843.0	12398.5	17122.0	22773.0	28523.5	34192.0	40582.9	46663.5	52840.2	58258.0	64174.2
-30°	7030.9	9250.1	12826.0	17122.0	22185.7	27178.2	32080.1	37102.7	41980.5	46405.6	50581.4
-32.5°	6202.2	7229.2	9250.1	12398.5	16101.7	20441.8	24559.0	28684.2	32391.7	35949.5	39224.1
-35°	5566.7	6202.2	7030.9	8843.0	11127.3	14364.9	17593.0	21066.5	24156.2	27048.5	29522.7
-37.5°	5147.0	5528.5	6066.1	6667.6	8038.8	9526.1	11818.9	14327.8	16570.4	19033.9	21085.3
-40°	4680.4	5072.6	5414.7	5796.7	6324.8	6856.9	8125.9	9270.6	10581.4	12351.1	13821.5
-42.5°	4214.7	4559.4	4915.9	5227.6	5510.3	5855.8	6272.3	6647.2	7317.6	8121.1	8787.4
-45°	3860.3	4105.3	4360.4	4674.1	4966.7	5214.0	5435.6	5634.6	5921.7	6183.6	6400.4
-47.5°	3521.4	3731.4	3943.5	4146.9	4358.8	4609.3	4837.3	5038.4	5199.9	5338.4	5452.8
-50°	3165.0	3378.3	3563.0	3736.2	3907.7	4069.2	4215.9	4374.4	4539.8	4681.3	4798.2
-52.5°	2774.2	2980.8	3174.4	3351.2	3500.0	3636.6	3760.6	3879.6	3985.5	4076.0	4150.6
-55°	2351.3	2554.3	2745.5	2915.8	3070.6	3212.7	3338.7	3440.3	3529.3	3605.3	3668.0
-57.5°	1931.9	2113.3	2285.5	2449.5	2601.4	2740.6	2861.9	2966.9	3058.8	3137.1	3201.7
-60°	1530.6	1678.7	1833.3	1978.8	2113.3	2236.6	2351.3	2453.5	2542.8	2618.9	2681.6
-62.5°	1160.2	1286.4	1412.8	1530.6	1639.4	1744.8	1845.6	1935.4	2013.7	2080.5	2135.4
-65°	839.3	941.4	1037.1	1126.2	1209.1	1298.6	1379.4	1451.3	1514.0	1567.5	1611.4
-67.5°	572.6	645.6	713.9	777.5	845.7	912.7	973.1	1026.8	1073.7	1113.6	1146.4
-70°	368.4	410.4	449.7	493.5	545.2	592.4	634.9	672.7	705.6	733.7	756.7
-72.5°	220.1	243.8	268.8	300.6	329.8	356.5	380.6	401.9	420.5	436.4	449.4
-75°	115.6	129.2	148.1	165.7	181.9	196.6	209.9	221.8	232.0	240.8	248.0
-77.5°	56.2	65.2	73.5	81.3	88.4	94.9	100.8	106.0	110.5	114.4	117.6
-80°	33.9	36.0	38.1	39.9	41.6	43.2	44.6	45.9	47.0	47.9	48.6
-82.5°	18.5	19.7	20.9	22.0	23.0	23.9	24.8	25.5	26.1	26.7	27.1
-85°	7.8	8.2	8.5	8.9	9.2	9.4	9.7	9.9	10.1	10.2	10.4
-87.5°	2.4	2.4	2.5	2.6	2.6	2.7	2.7	2.8	2.8	2.8	2.9
-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: P699955 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-4S-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°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.8	2.8	2.8
85°	10.5	10.5	10.6	10.6	10.6	10.5	10.5	10.4	10.2	10.1	9.9
82.5°	27.5	27.7	27.9	27.9	27.9	27.7	27.5	27.1	26.7	26.1	25.5
80°	49.2	49.7	49.9	50.0	49.9	49.7	49.2	48.6	47.9	47.0	45.9
77.5°	120.0	121.8	122.8	123.2	122.8	121.8	120.0	117.6	114.4	110.5	106.0
75°	253.6	257.6	260.0	260.8	260.0	257.6	253.6	248.0	240.8	232.0	221.8
72.5°	459.5	466.8	471.1	472.6	471.1	466.8	459.5	449.4	436.4	420.5	401.9
70°	774.7	787.6	795.3	797.9	795.3	787.6	774.7	756.7	733.7	705.6	672.7
67.5°	1172.0	1190.3	1201.3	1205.0	1201.3	1190.3	1172.0	1146.4	1113.6	1073.7	1026.8
65°	1645.7	1670.3	1685.1	1690.0	1685.1	1670.3	1645.7	1611.4	1567.5	1514.0	1451.3
62.5°	2178.4	2209.1	2227.6	2233.8	2227.6	2209.1	2178.4	2135.4	2080.5	2013.7	1935.4
60°	2730.6	2765.7	2786.8	2793.9	2786.8	2765.7	2730.6	2681.6	2618.9	2542.8	2453.5
57.5°	3252.2	3288.4	3310.2	3317.5	3310.2	3288.4	3252.2	3201.7	3137.1	3058.8	2966.9
55°	3717.0	3752.2	3773.3	3780.4	3773.3	3752.2	3717.0	3668.0	3605.3	3529.3	3440.3
52.5°	4209.1	4251.1	4276.4	4284.8	4276.4	4251.1	4209.1	4150.6	4076.0	3985.5	3879.6
50°	4889.8	4955.6	4995.3	5008.5	4995.3	4955.6	4889.8	4798.2	4681.3	4539.8	4374.4
47.5°	5542.6	5607.2	5646.1	5659.1	5646.1	5607.2	5542.6	5452.8	5338.4	5199.9	5038.4
45°	6570.7	6693.3	6767.2	6791.9	6767.2	6693.3	6570.7	6400.4	6183.6	5921.7	5634.6
42.5°	9311.5	9689.0	9916.8	9993.0	9916.8	9689.0	9311.5	8787.4	8121.1	7317.6	6647.2
40°	14979.7	15815.1	16319.7	16488.4	16319.7	15815.1	14979.7	13821.5	12351.1	10581.4	9270.6
37.5°	22704.3	23873.7	24580.7	24817.3	24580.7	23873.7	22704.3	21085.3	19033.9	16570.4	14327.8
35°	31479.8	32896.0	33753.3	34040.3	33753.3	32896.0	31479.8	29522.7	27048.5	24156.2	21066.5
32.5°	41821.4	43705.0	44846.9	45229.6	44846.9	43705.0	41821.4	39224.1	35949.5	32391.7	28684.2
30°	53904.8	56321.6	57789.7	58282.1	57789.7	56321.6	53904.8	50581.4	46405.6	41980.5	37102.7
27.5°	68908.2	72362.7	74466.4	75172.9	74466.4	72362.7	68908.2	64174.2	58258.0	52840.2	46663.5
25°	90660.3	96647.7	100305.4	101535.9	100305.4	96647.7	90660.3	82491.7	73348.4	65683.3	57289.2
22.5°	117842.6	125539.4	130261.3	131853.5	130261.3	125539.4	117842.6	107402.5	95414.9	82304.4	70292.9
20°	150576.9	161793.2	168714.4	171055.4	168714.4	161793.2	150576.9	135479.8	120351.1	103788.9	87437.9
17.5°	190444.6	206125.8	215881.6	219196.3	215881.6	206125.8	190444.6	169836.8	149235.9	127064.2	106954.6
15°	233525.8	251038.9	262065.6	265837.8	262065.6	251038.9	233525.8	210264.0	181968.2	153954.3	127064.2
12.5°	272820.0	289256.5	299211.9	302485.4	299211.9	289256.5	272820.0	247966.3	217136.5	181968.2	149235.9
10°	302793.6	319274.6	329019.3	332392.1	329019.3	319274.6	302793.6	279604.6	247966.3	210264.0	169836.8
7.5°	325845.2	343064.2	353984.4	357567.9	353984.4	343064.2	325845.2	302793.6	272820.0	233525.8	190444.6
5°	343064.2	361417.8	372423.4	376181.9	372423.4	361417.8	343064.2	319274.6	289256.5	251038.9	206125.8
2.5°	353984.4	372423.4	383095.8	386581.9	383095.8	372423.4	353984.4	329019.3	299211.9	262065.6	215881.6
0°	357567.9	376181.9	386581.9	390532.7	386581.9	376181.9	357567.9	332392.1	302485.4	265837.8	219196.3
-2.5°	353984.4	372423.4	383095.8	386581.9	383095.8	372423.4	353984.4	329019.3	299211.9	262065.6	215881.6
-5°	343064.2	361417.8	372423.4	376181.9	372423.4	361417.8	343064.2	319274.6	289256.5	251038.9	206125.8
-7.5°	325845.2	343064.2	353984.4	357567.9	353984.4	343064.2	325845.2	302793.6	272820.0	233525.8	190444.6
-10°	302793.6	319274.6	329019.3	332392.1	329019.3	319274.6	302793.6	279604.6	247966.3	210264.0	169836.8
-12.5°	272820.0	289256.5	299211.9	302485.4	299211.9	289256.5	272820.0	247966.3	217136.5	181968.2	149235.9
-15°	233525.8	251038.9	262065.6	265837.8	262065.6	251038.9	233525.8	210264.0	181968.2	153954.3	127064.2
-17.5°	190444.6	206125.8	215881.6	219196.3	215881.6	206125.8	190444.6	169836.8	149235.9	127064.2	106954.6
-20°	150576.9	161793.2	168714.4	171055.4	168714.4	161793.2	150576.9	135479.8	120351.1	103788.9	87437.9



REPORT NUMBER: P699955 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-4S-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	117842.6	125539.4	130261.3	131853.5	130261.3	125539.4	117842.6	107402.5	95414.9	82304.4	70292.9
-25°	90660.3	96647.7	100305.4	101535.9	100305.4	96647.7	90660.3	82491.7	73348.4	65683.3	57289.2
-27.5°	68908.2	72362.7	74466.4	75172.9	74466.4	72362.7	68908.2	64174.2	58258.0	52840.2	46663.5
-30°	53904.8	56321.6	57789.7	58282.1	57789.7	56321.6	53904.8	50581.4	46405.6	41980.5	37102.7
-32.5°	41821.4	43705.0	44846.9	45229.6	44846.9	43705.0	41821.4	39224.1	35949.5	32391.7	28684.2
-35°	31479.8	32896.0	33753.3	34040.3	33753.3	32896.0	31479.8	29522.7	27048.5	24156.2	21066.5
-37.5°	22704.3	23873.7	24580.7	24817.3	24580.7	23873.7	22704.3	21085.3	19033.9	16570.4	14327.8
-40°	14979.7	15815.1	16319.7	16488.4	16319.7	15815.1	14979.7	13821.5	12351.1	10581.4	9270.6
-42.5°	9311.5	9689.0	9916.8	9993.0	9916.8	9689.0	9311.5	8787.4	8121.1	7317.6	6647.2
-45°	6570.7	6693.3	6767.2	6791.9	6767.2	6693.3	6570.7	6400.4	6183.6	5921.7	5634.6
-47.5°	5542.6	5607.2	5646.1	5659.1	5646.1	5607.2	5542.6	5452.8	5338.4	5199.9	5038.4
-50°	4889.8	4955.6	4995.3	5008.5	4995.3	4955.6	4889.8	4798.2	4681.3	4539.8	4374.4
-52.5°	4209.1	4251.1	4276.4	4284.8	4276.4	4251.1	4209.1	4150.6	4076.0	3985.5	3879.6
-55°	3717.0	3752.2	3773.3	3780.4	3773.3	3752.2	3717.0	3668.0	3605.3	3529.3	3440.3
-57.5°	3252.2	3288.4	3310.2	3317.5	3310.2	3288.4	3252.2	3201.7	3137.1	3058.8	2966.9
-60°	2730.6	2765.7	2786.8	2793.9	2786.8	2765.7	2730.6	2681.6	2618.9	2542.8	2453.5
-62.5°	2178.4	2209.1	2227.6	2233.8	2227.6	2209.1	2178.4	2135.4	2080.5	2013.7	1935.4
-65°	1645.7	1670.3	1685.1	1690.0	1685.1	1670.3	1645.7	1611.4	1567.5	1514.0	1451.3
-67.5°	1172.0	1190.3	1201.3	1205.0	1201.3	1190.3	1172.0	1146.4	1113.6	1073.7	1026.8
-70°	774.7	787.6	795.3	797.9	795.3	787.6	774.7	756.7	733.7	705.6	672.7
-72.5°	459.5	466.8	471.1	472.6	471.1	466.8	459.5	449.4	436.4	420.5	401.9
-75°	253.6	257.6	260.0	260.8	260.0	257.6	253.6	248.0	240.8	232.0	221.8
-77.5°	120.0	121.8	122.8	123.2	122.8	121.8	120.0	117.6	114.4	110.5	106.0
-80°	49.2	49.7	49.9	50.0	49.9	49.7	49.2	48.6	47.9	47.0	45.9
-82.5°	27.5	27.7	27.9	27.9	27.9	27.7	27.5	27.1	26.7	26.1	25.5
-85°	10.5	10.5	10.6	10.6	10.6	10.5	10.5	10.4	10.2	10.1	9.9
-87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.8	2.8	2.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699955 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-4S-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°	2.7	2.7	2.6	2.6	2.5	2.4	2.4	2.3	2.2	2.1	2.1
85°	9.7	9.4	9.2	8.9	8.5	8.2	7.8	7.4	7.0	6.5	6.1
82.5°	24.8	23.9	23.0	22.0	20.9	19.7	18.5	17.1	15.7	14.2	12.6
80°	44.6	43.2	41.6	39.9	38.1	36.0	33.9	31.6	29.2	26.9	24.8
77.5°	100.8	94.9	88.4	81.3	73.5	65.2	56.2	49.0	46.0	42.8	39.4
75°	209.9	196.6	181.9	165.7	148.1	129.2	115.6	104.1	92.0	79.3	66.0
72.5°	380.6	356.5	329.8	300.6	268.8	243.8	220.1	194.9	168.2	140.2	116.7
70°	634.9	592.4	545.2	493.5	449.7	410.4	368.4	323.8	276.8	239.1	205.5
67.5°	973.1	912.7	845.7	777.5	713.9	645.6	572.6	495.3	434.2	378.4	320.1
65°	1379.4	1298.6	1209.1	1126.2	1037.1	941.4	839.3	744.5	653.4	557.8	463.1
62.5°	1845.6	1744.8	1639.4	1530.6	1412.8	1286.4	1160.2	1040.4	914.3	785.3	675.2
60°	2351.3	2236.6	2113.3	1978.8	1833.3	1678.7	1530.6	1373.9	1209.1	1063.6	912.7
57.5°	2861.9	2740.6	2601.4	2449.5	2285.5	2113.3	1931.9	1740.2	1555.2	1367.4	1177.2
55°	3338.7	3212.7	3070.6	2915.8	2745.5	2554.3	2351.3	2139.8	1921.6	1693.7	1481.9
52.5°	3760.6	3636.6	3500.0	3351.2	3174.4	2980.8	2774.2	2542.8	2300.3	2052.9	1798.0
50°	4215.9	4069.2	3907.7	3736.2	3563.0	3378.3	3165.0	2932.3	2681.6	2410.5	2132.4
47.5°	4837.3	4609.3	4358.8	4146.9	3943.5	3731.4	3521.4	3298.8	3038.3	2765.7	2466.0
45°	5435.6	5214.0	4966.7	4674.1	4360.4	4105.3	3860.3	3618.2	3372.6	3091.7	2793.9
42.5°	6272.3	5855.8	5510.3	5227.6	4915.9	4559.4	4214.7	3941.3	3667.0	3396.7	3091.7
40°	8125.9	6856.9	6324.8	5796.7	5414.7	5072.6	4680.4	4270.0	3968.4	3667.0	3372.6
37.5°	11818.9	9526.1	8038.8	6667.6	6066.1	5528.5	5147.0	4720.9	4270.0	3941.3	3618.2
35°	17593.0	14364.9	11127.3	8843.0	7030.9	6202.2	5566.7	5147.0	4680.4	4214.7	3860.3
32.5°	24559.0	20441.8	16101.7	12398.5	9250.1	7229.2	6202.2	5528.5	5072.6	4559.4	4105.3
30°	32080.1	27178.2	22185.7	17122.0	12826.0	9250.1	7030.9	6066.1	5414.7	4915.9	4360.4
27.5°	40582.9	34192.0	28523.5	22773.0	17122.0	12398.5	8843.0	6667.6	5796.7	5227.6	4674.1
25°	49885.0	42356.7	35045.4	28523.5	22185.7	16101.7	11127.3	8038.8	6324.8	5510.3	4966.7
22.5°	59943.1	50974.2	42356.7	34192.0	27178.2	20441.8	14364.9	9526.1	6856.9	5855.8	5214.0
20°	71856.3	59943.1	49885.0	40582.9	32080.1	24559.0	17593.0	11818.9	8125.9	6272.3	5435.6
17.5°	87437.9	70292.9	57289.2	46663.5	37102.7	28684.2	21066.5	14327.8	9270.6	6647.2	5634.6
15°	103788.9	82304.4	65683.3	52840.2	41980.5	32391.7	24156.2	16570.4	10581.4	7317.6	5921.7
12.5°	120351.1	95414.9	73348.4	58258.0	46405.6	35949.5	27048.5	19033.9	12351.1	8121.1	6183.6
10°	135479.8	107402.5	82491.7	64174.2	50581.4	39224.1	29522.7	21085.3	13821.5	8787.4	6400.4
7.5°	150576.9	117842.6	90660.3	68908.2	53904.8	41821.4	31479.8	22704.3	14979.7	9311.5	6570.7
5°	161793.2	125539.4	96647.7	72362.7	56321.6	43705.0	32896.0	23873.7	15815.1	9689.0	6693.3
2.5°	168714.4	130261.3	100305.4	74466.4	57789.7	44846.9	33753.3	24580.7	16319.7	9916.8	6767.2
0°	171055.4	131853.5	101535.9	75172.9	58282.1	45229.6	34040.3	24817.3	16488.4	9993.0	6791.9
-2.5°	168714.4	130261.3	100305.4	74466.4	57789.7	44846.9	33753.3	24580.7	16319.7	9916.8	6767.2
-5°	161793.2	125539.4	96647.7	72362.7	56321.6	43705.0	32896.0	23873.7	15815.1	9689.0	6693.3
-7.5°	150576.9	117842.6	90660.3	68908.2	53904.8	41821.4	31479.8	22704.3	14979.7	9311.5	6570.7
-10°	135479.8	107402.5	82491.7	64174.2	50581.4	39224.1	29522.7	21085.3	13821.5	8787.4	6400.4
-12.5°	120351.1	95414.9	73348.4	58258.0	46405.6	35949.5	27048.5	19033.9	12351.1	8121.1	6183.6
-15°	103788.9	82304.4	65683.3	52840.2	41980.5	32391.7	24156.2	16570.4	10581.4	7317.6	5921.7
-17.5°	87437.9	70292.9	57289.2	46663.5	37102.7	28684.2	21066.5	14327.8	9270.6	6647.2	5634.6
-20°	71856.3	59943.1	49885.0	40582.9	32080.1	24559.0	17593.0	11818.9	8125.9	6272.3	5435.6



REPORT NUMBER: P699955 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-4S-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	59943.1	50974.2	42356.7	34192.0	27178.2	20441.8	14364.9	9526.1	6856.9	5855.8	5214.0
-25°	49885.0	42356.7	35045.4	28523.5	22185.7	16101.7	11127.3	8038.8	6324.8	5510.3	4966.7
-27.5°	40582.9	34192.0	28523.5	22773.0	17122.0	12398.5	8843.0	6667.6	5796.7	5227.6	4674.1
-30°	32080.1	27178.2	22185.7	17122.0	12826.0	9250.1	7030.9	6066.1	5414.7	4915.9	4360.4
-32.5°	24559.0	20441.8	16101.7	12398.5	9250.1	7229.2	6202.2	5528.5	5072.6	4559.4	4105.3
-35°	17593.0	14364.9	11127.3	8843.0	7030.9	6202.2	5566.7	5147.0	4680.4	4214.7	3860.3
-37.5°	11818.9	9526.1	8038.8	6667.6	6066.1	5528.5	5147.0	4720.9	4270.0	3941.3	3618.2
-40°	8125.9	6856.9	6324.8	5796.7	5414.7	5072.6	4680.4	4270.0	3968.4	3667.0	3372.6
-42.5°	6272.3	5855.8	5510.3	5227.6	4915.9	4559.4	4214.7	3941.3	3667.0	3396.7	3091.7
-45°	5435.6	5214.0	4966.7	4674.1	4360.4	4105.3	3860.3	3618.2	3372.6	3091.7	2793.9
-47.5°	4837.3	4609.3	4358.8	4146.9	3943.5	3731.4	3521.4	3298.8	3038.3	2765.7	2466.0
-50°	4215.9	4069.2	3907.7	3736.2	3563.0	3378.3	3165.0	2932.3	2681.6	2410.5	2132.4
-52.5°	3760.6	3636.6	3500.0	3351.2	3174.4	2980.8	2774.2	2542.8	2300.3	2052.9	1798.0
-55°	3338.7	3212.7	3070.6	2915.8	2745.5	2554.3	2351.3	2139.8	1921.6	1693.7	1481.9
-57.5°	2861.9	2740.6	2601.4	2449.5	2285.5	2113.3	1931.9	1740.2	1555.2	1367.4	1177.2
-60°	2351.3	2236.6	2113.3	1978.8	1833.3	1678.7	1530.6	1373.9	1209.1	1063.6	912.7
-62.5°	1845.6	1744.8	1639.4	1530.6	1412.8	1286.4	1160.2	1040.4	914.3	785.3	675.2
-65°	1379.4	1298.6	1209.1	1126.2	1037.1	941.4	839.3	744.5	653.4	557.8	463.1
-67.5°	973.1	912.7	845.7	777.5	713.9	645.6	572.6	495.3	434.2	378.4	320.1
-70°	634.9	592.4	545.2	493.5	449.7	410.4	368.4	323.8	276.8	239.1	205.5
-72.5°	380.6	356.5	329.8	300.6	268.8	243.8	220.1	194.9	168.2	140.2	116.7
-75°	209.9	196.6	181.9	165.7	148.1	129.2	115.6	104.1	92.0	79.3	66.0
-77.5°	100.8	94.9	88.4	81.3	73.5	65.2	56.2	49.0	46.0	42.8	39.4
-80°	44.6	43.2	41.6	39.9	38.1	36.0	33.9	31.6	29.2	26.9	24.8
-82.5°	24.8	23.9	23.0	22.0	20.9	19.7	18.5	17.1	15.7	14.2	12.6
-85°	9.7	9.4	9.2	8.9	8.5	8.2	7.8	7.4	7.0	6.5	6.1
-87.5°	2.7	2.7	2.6	2.6	2.5	2.4	2.4	2.3	2.2	2.1	2.1
-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: P699955 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-4S-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°	2.0	1.9	1.8	1.7	1.6	1.4	1.3	1.2	1.1	1.0	0.9
85°	5.6	5.1	4.6	4.0	3.5	2.9	2.7	2.4	2.2	2.0	1.7
82.5°	11.0	10.0	9.2	8.4	7.6	6.7	5.8	4.9	4.0	3.1	2.6
80°	22.6	20.3	18.0	15.6	13.0	10.5	9.4	8.2	6.9	5.7	4.4
77.5°	35.9	32.3	28.5	25.3	22.2	19.0	15.7	12.3	9.8	8.3	6.7
75°	52.1	46.3	41.7	37.1	32.3	27.5	23.5	19.5	15.3	11.1	8.9
72.5°	100.4	83.5	66.0	49.4	43.8	38.0	32.2	26.5	21.7	16.8	11.9
70°	170.5	134.2	109.1	88.5	67.3	48.6	41.9	35.1	28.1	22.5	16.8
67.5°	259.9	219.0	176.7	133.1	104.6	80.2	55.2	43.9	36.0	28.1	21.7
65°	395.5	325.4	255.8	207.3	157.6	114.4	86.7	58.4	43.9	35.1	26.5
62.5°	560.7	452.8	373.1	291.1	225.8	169.9	117.7	86.7	55.2	41.9	32.2
60°	764.4	634.9	501.3	401.9	310.3	232.0	169.9	114.4	80.2	48.6	38.0
57.5°	1007.0	831.2	679.8	531.1	411.6	310.3	225.8	157.6	104.6	67.3	43.8
55°	1263.0	1064.1	869.0	694.8	531.1	401.9	291.1	207.3	133.1	88.5	49.4
52.5°	1551.3	1308.9	1083.2	869.0	679.8	501.3	373.1	255.8	176.7	109.1	66.0
50°	1850.6	1574.5	1308.9	1064.1	831.2	634.9	452.8	325.4	219.0	134.2	83.5
47.5°	2159.1	1850.6	1551.3	1263.0	1007.0	764.4	560.7	395.5	259.9	170.5	100.4
45°	2466.0	2132.4	1798.0	1481.9	1177.2	912.7	675.2	463.1	320.1	205.5	116.7
42.5°	2765.7	2410.5	2052.9	1693.7	1367.4	1063.6	785.3	557.8	378.4	239.1	140.2
40°	3038.3	2681.6	2300.3	1921.6	1555.2	1209.1	914.3	653.4	434.2	276.8	168.2
37.5°	3298.8	2932.3	2542.8	2139.8	1740.2	1373.9	1040.4	744.5	495.3	323.8	194.9
35°	3521.4	3165.0	2774.2	2351.3	1931.9	1530.6	1160.2	839.3	572.6	368.4	220.1
32.5°	3731.4	3378.3	2980.8	2554.3	2113.3	1678.7	1286.4	941.4	645.6	410.4	243.8
30°	3943.5	3563.0	3174.4	2745.5	2285.5	1833.3	1412.8	1037.1	713.9	449.7	268.8
27.5°	4146.9	3736.2	3351.2	2915.8	2449.5	1978.8	1530.6	1126.2	777.5	493.5	300.6
25°	4358.8	3907.7	3500.0	3070.6	2601.4	2113.3	1639.4	1209.1	845.7	545.2	329.8
22.5°	4609.3	4069.2	3636.6	3212.7	2740.6	2236.6	1744.8	1298.6	912.7	592.4	356.5
20°	4837.3	4215.9	3760.6	3338.7	2861.9	2351.3	1845.6	1379.4	973.1	634.9	380.6
17.5°	5038.4	4374.4	3879.6	3440.3	2966.9	2453.5	1935.4	1451.3	1026.8	672.7	401.9
15°	5199.9	4539.8	3985.5	3529.3	3058.8	2542.8	2013.7	1514.0	1073.7	705.6	420.5
12.5°	5338.4	4681.3	4076.0	3605.3	3137.1	2618.9	2080.5	1567.5	1113.6	733.7	436.4
10°	5452.8	4798.2	4150.6	3668.0	3201.7	2681.6	2135.4	1611.4	1146.4	756.7	449.4
7.5°	5542.6	4889.8	4209.1	3717.0	3252.2	2730.6	2178.4	1645.7	1172.0	774.7	459.5
5°	5607.2	4955.6	4251.1	3752.2	3288.4	2765.7	2209.1	1670.3	1190.3	787.6	466.8
2.5°	5646.1	4995.3	4276.4	3773.3	3310.2	2786.8	2227.6	1685.1	1201.3	795.3	471.1
0°	5659.1	5008.5	4284.8	3780.4	3317.5	2793.9	2233.8	1690.0	1205.0	797.9	472.6
-2.5°	5646.1	4995.3	4276.4	3773.3	3310.2	2786.8	2227.6	1685.1	1201.3	795.3	471.1
-5°	5607.2	4955.6	4251.1	3752.2	3288.4	2765.7	2209.1	1670.3	1190.3	787.6	466.8
-7.5°	5542.6	4889.8	4209.1	3717.0	3252.2	2730.6	2178.4	1645.7	1172.0	774.7	459.5
-10°	5452.8	4798.2	4150.6	3668.0	3201.7	2681.6	2135.4	1611.4	1146.4	756.7	449.4
-12.5°	5338.4	4681.3	4076.0	3605.3	3137.1	2618.9	2080.5	1567.5	1113.6	733.7	436.4
-15°	5199.9	4539.8	3985.5	3529.3	3058.8	2542.8	2013.7	1514.0	1073.7	705.6	420.5
-17.5°	5038.4	4374.4	3879.6	3440.3	2966.9	2453.5	1935.4	1451.3	1026.8	672.7	401.9
-20°	4837.3	4215.9	3760.6	3338.7	2861.9	2351.3	1845.6	1379.4	973.1	634.9	380.6



REPORT NUMBER: P699955 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-4S-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	4609.3	4069.2	3636.6	3212.7	2740.6	2236.6	1744.8	1298.6	912.7	592.4	356.5
-25°	4358.8	3907.7	3500.0	3070.6	2601.4	2113.3	1639.4	1209.1	845.7	545.2	329.8
-27.5°	4146.9	3736.2	3351.2	2915.8	2449.5	1978.8	1530.6	1126.2	777.5	493.5	300.6
-30°	3943.5	3563.0	3174.4	2745.5	2285.5	1833.3	1412.8	1037.1	713.9	449.7	268.8
-32.5°	3731.4	3378.3	2980.8	2554.3	2113.3	1678.7	1286.4	941.4	645.6	410.4	243.8
-35°	3521.4	3165.0	2774.2	2351.3	1931.9	1530.6	1160.2	839.3	572.6	368.4	220.1
-37.5°	3298.8	2932.3	2542.8	2139.8	1740.2	1373.9	1040.4	744.5	495.3	323.8	194.9
-40°	3038.3	2681.6	2300.3	1921.6	1555.2	1209.1	914.3	653.4	434.2	276.8	168.2
-42.5°	2765.7	2410.5	2052.9	1693.7	1367.4	1063.6	785.3	557.8	378.4	239.1	140.2
-45°	2466.0	2132.4	1798.0	1481.9	1177.2	912.7	675.2	463.1	320.1	205.5	116.7
-47.5°	2159.1	1850.6	1551.3	1263.0	1007.0	764.4	560.7	395.5	259.9	170.5	100.4
-50°	1850.6	1574.5	1308.9	1064.1	831.2	634.9	452.8	325.4	219.0	134.2	83.5
-52.5°	1551.3	1308.9	1083.2	869.0	679.8	501.3	373.1	255.8	176.7	109.1	66.0
-55°	1263.0	1064.1	869.0	694.8	531.1	401.9	291.1	207.3	133.1	88.5	49.4
-57.5°	1007.0	831.2	679.8	531.1	411.6	310.3	225.8	157.6	104.6	67.3	43.8
-60°	764.4	634.9	501.3	401.9	310.3	232.0	169.9	114.4	80.2	48.6	38.0
-62.5°	560.7	452.8	373.1	291.1	225.8	169.9	117.7	86.7	55.2	41.9	32.2
-65°	395.5	325.4	255.8	207.3	157.6	114.4	86.7	58.4	43.9	35.1	26.5
-67.5°	259.9	219.0	176.7	133.1	104.6	80.2	55.2	43.9	36.0	28.1	21.7
-70°	170.5	134.2	109.1	88.5	67.3	48.6	41.9	35.1	28.1	22.5	16.8
-72.5°	100.4	83.5	66.0	49.4	43.8	38.0	32.2	26.5	21.7	16.8	11.9
-75°	52.1	46.3	41.7	37.1	32.3	27.5	23.5	19.5	15.3	11.1	8.9
-77.5°	35.9	32.3	28.5	25.3	22.2	19.0	15.7	12.3	9.8	8.3	6.7
-80°	22.6	20.3	18.0	15.6	13.0	10.5	9.4	8.2	6.9	5.7	4.4
-82.5°	11.0	10.0	9.2	8.4	7.6	6.7	5.8	4.9	4.0	3.1	2.6
-85°	5.6	5.1	4.6	4.0	3.5	2.9	2.7	2.4	2.2	2.0	1.7
-87.5°	2.0	1.9	1.8	1.7	1.6	1.4	1.3	1.2	1.1	1.0	0.9
-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: P699955 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-4S-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°	0.8	0.6	0.5	0.4	0.3	0.1	0.0
85°	1.5	1.3	1.0	0.8	0.5	0.3	0.0
82.5°	2.2	1.9	1.5	1.1	0.8	0.4	0.0
80°	3.1	2.5	2.0	1.5	1.0	0.5	0.0
77.5°	5.1	3.5	2.5	1.9	1.3	0.6	0.0
75°	7.0	5.1	3.1	2.2	1.5	0.8	0.0
72.5°	8.9	6.7	4.4	2.6	1.7	0.9	0.0
70°	11.1	8.3	5.7	3.1	2.0	1.0	0.0
67.5°	15.3	9.8	6.9	4.0	2.2	1.1	0.0
65°	19.5	12.3	8.2	4.9	2.4	1.2	0.0
62.5°	23.5	15.7	9.4	5.8	2.7	1.3	0.0
60°	27.5	19.0	10.5	6.7	2.9	1.4	0.0
57.5°	32.3	22.2	13.0	7.6	3.5	1.6	0.0
55°	37.1	25.3	15.6	8.4	4.0	1.7	0.0
52.5°	41.7	28.5	18.0	9.2	4.6	1.8	0.0
50°	46.3	32.3	20.3	10.0	5.1	1.9	0.0
47.5°	52.1	35.9	22.6	11.0	5.6	2.0	0.0
45°	66.0	39.4	24.8	12.6	6.1	2.1	0.0
42.5°	79.3	42.8	26.9	14.2	6.5	2.1	0.0
40°	92.0	46.0	29.2	15.7	7.0	2.2	0.0
37.5°	104.1	49.0	31.6	17.1	7.4	2.3	0.0
35°	115.6	56.2	33.9	18.5	7.8	2.4	0.0
32.5°	129.2	65.2	36.0	19.7	8.2	2.4	0.0
30°	148.1	73.5	38.1	20.9	8.5	2.5	0.0
27.5°	165.7	81.3	39.9	22.0	8.9	2.6	0.0
25°	181.9	88.4	41.6	23.0	9.2	2.6	0.0
22.5°	196.6	94.9	43.2	23.9	9.4	2.7	0.0
20°	209.9	100.8	44.6	24.8	9.7	2.7	0.0
17.5°	221.8	106.0	45.9	25.5	9.9	2.8	0.0
15°	232.0	110.5	47.0	26.1	10.1	2.8	0.0
12.5°	240.8	114.4	47.9	26.7	10.2	2.8	0.0
10°	248.0	117.6	48.6	27.1	10.4	2.9	0.0
7.5°	253.6	120.0	49.2	27.5	10.5	2.9	0.0
5°	257.6	121.8	49.7	27.7	10.5	2.9	0.0
2.5°	260.0	122.8	49.9	27.9	10.6	2.9	0.0
0°	260.8	123.2	50.0	27.9	10.6	2.9	0.0
-2.5°	260.0	122.8	49.9	27.9	10.6	2.9	0.0
-5°	257.6	121.8	49.7	27.7	10.5	2.9	0.0
-7.5°	253.6	120.0	49.2	27.5	10.5	2.9	0.0
-10°	248.0	117.6	48.6	27.1	10.4	2.9	0.0
-12.5°	240.8	114.4	47.9	26.7	10.2	2.8	0.0
-15°	232.0	110.5	47.0	26.1	10.1	2.8	0.0
-17.5°	221.8	106.0	45.9	25.5	9.9	2.8	0.0
-20°	209.9	100.8	44.6	24.8	9.7	2.7	0.0



REPORT NUMBER: P699955 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-4S-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	196.6	94.9	43.2	23.9	9.4	2.7	0.0
-25°	181.9	88.4	41.6	23.0	9.2	2.6	0.0
-27.5°	165.7	81.3	39.9	22.0	8.9	2.6	0.0
-30°	148.1	73.5	38.1	20.9	8.5	2.5	0.0
-32.5°	129.2	65.2	36.0	19.7	8.2	2.4	0.0
-35°	115.6	56.2	33.9	18.5	7.8	2.4	0.0
-37.5°	104.1	49.0	31.6	17.1	7.4	2.3	0.0
-40°	92.0	46.0	29.2	15.7	7.0	2.2	0.0
-42.5°	79.3	42.8	26.9	14.2	6.5	2.1	0.0
-45°	66.0	39.4	24.8	12.6	6.1	2.1	0.0
-47.5°	52.1	35.9	22.6	11.0	5.6	2.0	0.0
-50°	46.3	32.3	20.3	10.0	5.1	1.9	0.0
-52.5°	41.7	28.5	18.0	9.2	4.6	1.8	0.0
-55°	37.1	25.3	15.6	8.4	4.0	1.7	0.0
-57.5°	32.3	22.2	13.0	7.6	3.5	1.6	0.0
-60°	27.5	19.0	10.5	6.7	2.9	1.4	0.0
-62.5°	23.5	15.7	9.4	5.8	2.7	1.3	0.0
-65°	19.5	12.3	8.2	4.9	2.4	1.2	0.0
-67.5°	15.3	9.8	6.9	4.0	2.2	1.1	0.0
-70°	11.1	8.3	5.7	3.1	2.0	1.0	0.0
-72.5°	8.9	6.7	4.4	2.6	1.7	0.9	0.0
-75°	7.0	5.1	3.1	2.2	1.5	0.8	0.0
-77.5°	5.1	3.5	2.5	1.9	1.3	0.6	0.0
-80°	3.1	2.5	2.0	1.5	1.0	0.5	0.0
-82.5°	2.2	1.9	1.5	1.1	0.8	0.4	0.0
-85°	1.5	1.3	1.0	0.8	0.5	0.3	0.0
-87.5°	0.8	0.6	0.5	0.4	0.3	0.1	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)