

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: P699929 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200L-57-80-4S-S**

Issue Date: 8/10/2023

Test Information

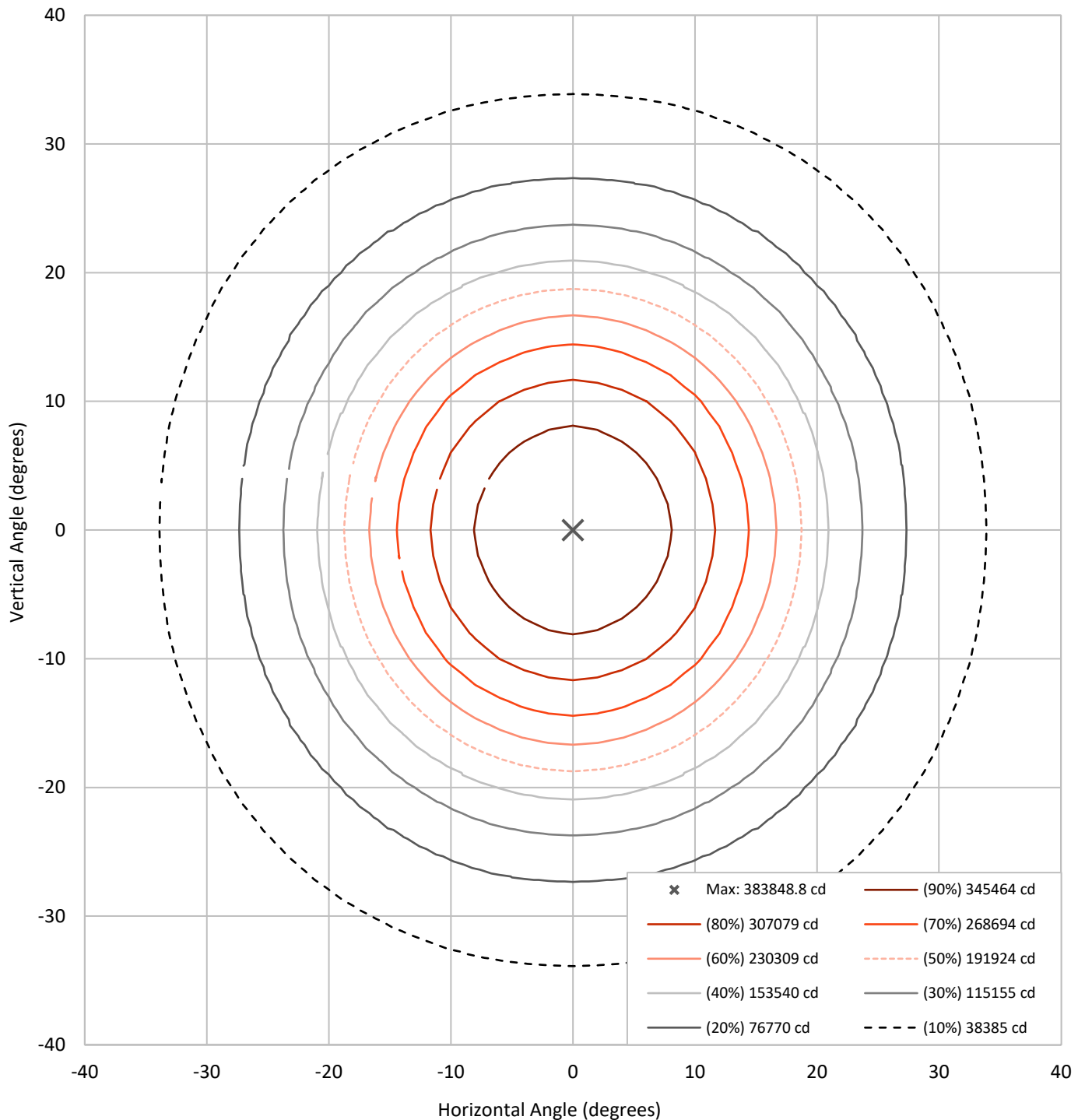
Test Method: LM-79-08
Report Number: P699929 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-12)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200L-57-80-4S-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 5700K, 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:	183179.9 lumens	Max Intensity:	383848.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	150.9 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:	93194.8 lumens	Field Lumens:	161163 lumens
Beam Efficiency:	50.9%	Field Efficiency:	88.0%
Input Watts (W):	1214.1		
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





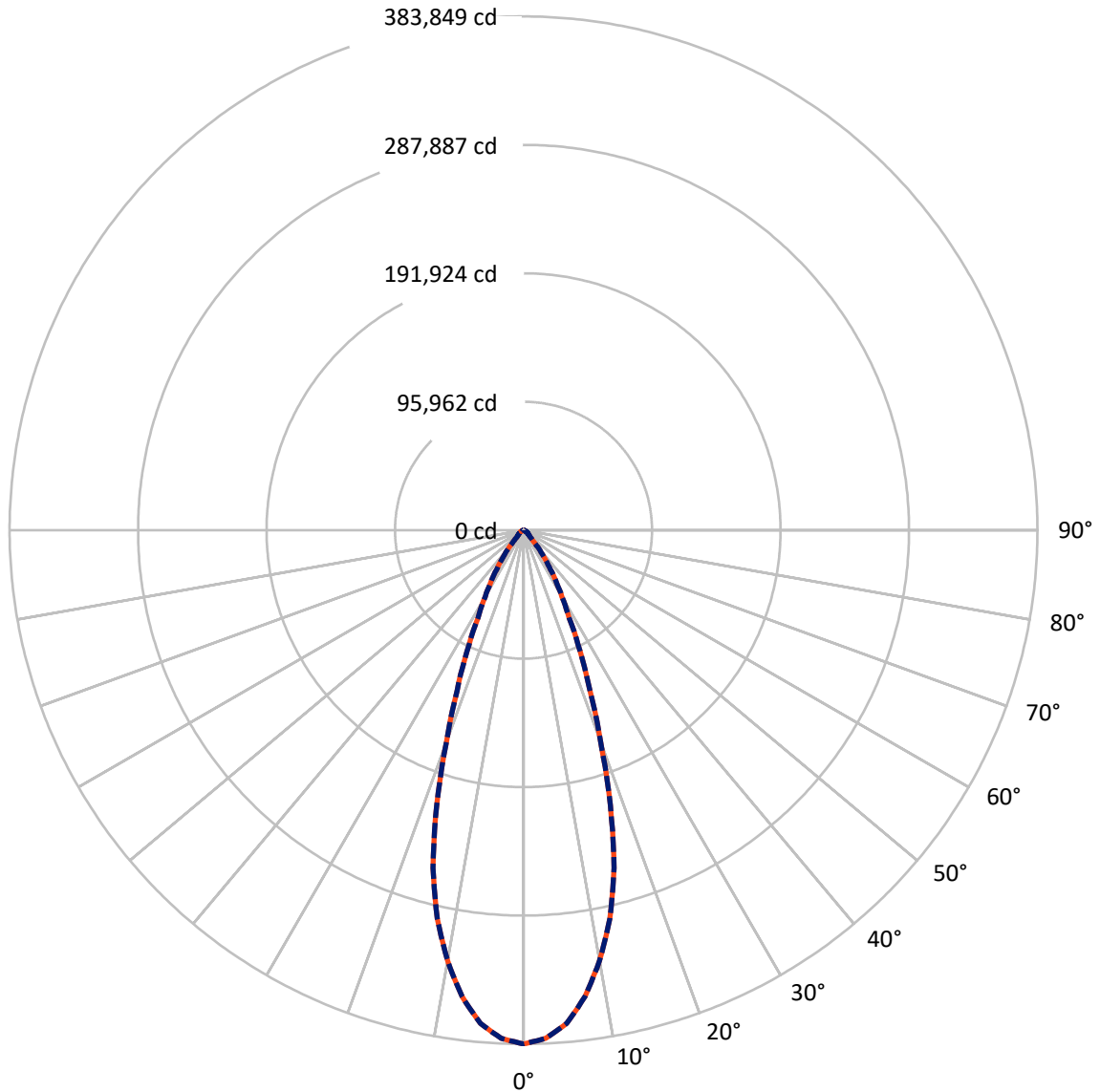
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Lumen Table

90	0.1	1.1	5.9	15.1	19.7	15.1	5.9	1.1	0.1							
80	0.1	1.1	5.9	15.1	19.7	15.1	5.9	1.1	0.1							
70	0.6	0.9	3.9	10.9	21.7	34.0	44.8	50.8	50.8	44.8	34.0	21.7	10.9	3.9	0.9	0.6
60		3.0	12.6	31.9	57.6	82.4	101.6	112.5	112.5	101.6	82.4	57.6	31.9	12.6	3.0	
50	2.1	6.7	26.1	58.8	95.4	135.9	189.1	238.9	238.9	189.1	135.9	95.4	58.8	26.1	6.7	2.1
40		11.6	40.7	82.6	145.5	345.7	716.4	1003.6	1003.6	716.4	345.7	145.5	82.6	40.7	11.6	
30	4.5	16.4	52.7	106.6	314.5	975.5	1981.2	2954.8	2954.8	1981.2	975.5	314.5	106.6	52.7	16.4	4.5
20		20.3	61.0	139.9	613.7	1865.9	4506.0	7214.3	7214.3	4506.0	1865.9	613.7	139.9	61.0	20.3	
10	5.6	22.3	65.5	172.3	834.4	2705.3	7010.1	10455.0	10455.0	7010.1	2705.3	834.4	172.3	65.5	22.3	5.6
0		22.3	65.5	172.3	834.4	2705.3	7010.1	10455.0	10455.0	7010.1	2705.3	834.4	172.3	65.5	22.3	
-10	4.5	20.3	61.0	139.9	613.7	1865.9	4506.0	7214.3	7214.3	4506.0	1865.9	613.7	139.9	61.0	20.3	4.5
-20		16.4	52.7	106.6	314.5	975.5	1981.2	2954.8	2954.8	1981.2	975.5	314.5	106.6	52.7	16.4	
-30	2.1	11.6	40.7	82.6	145.5	345.7	716.4	1003.6	1003.6	716.4	345.7	145.5	82.6	40.7	11.6	2.1
-40		6.7	26.1	58.8	95.4	135.9	189.1	238.9	238.9	189.1	135.9	95.4	58.8	26.1	6.7	
-50	0.6	3.0	12.6	31.9	57.6	82.4	101.6	112.5	112.5	101.6	82.4	57.6	31.9	12.6	3.0	0.6
-60		0.9	3.9	10.9	21.7	34.0	44.8	50.8	50.8	44.8	34.0	21.7	10.9	3.9	0.9	
-70	0.1	1.1	5.9	15.1	19.7	15.1	5.9	1.1	0.1							
-80		0.1	1.1	5.9	15.1	19.7	15.1	5.9	1.1	0.1						
-90	0.1	1.1	5.9	15.1	19.7	15.1	5.9	1.1	0.1							

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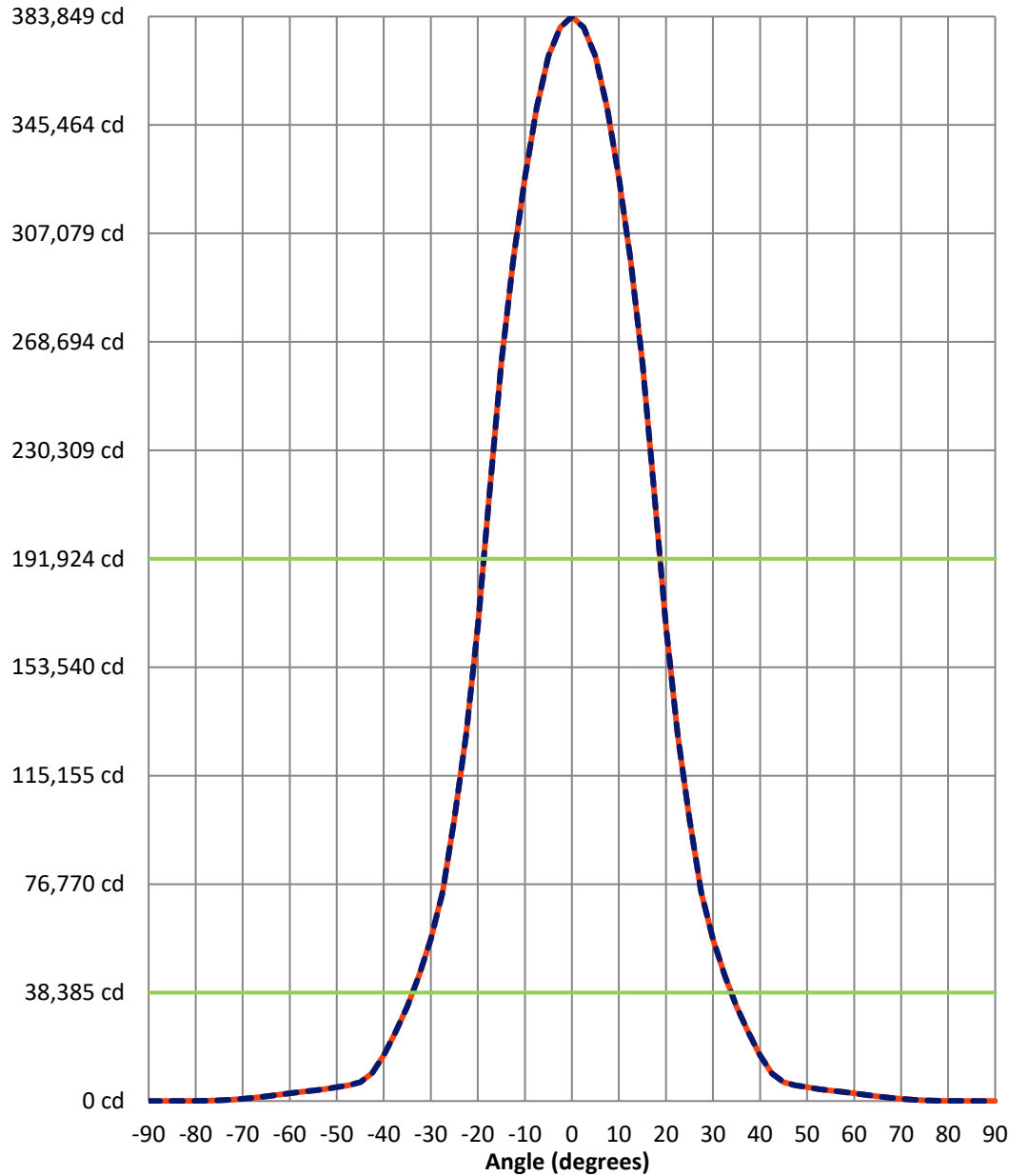
Luminous Intensity Polar Plot



— 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: 93194.8
Efficiency: 50.9%

Field:
H Angle: 67.8°
V Angle: 67.8°
Lumens: 161163
Efficiency: 88.0%

Spill:
Lumens: 22016.9
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	0.2	0.4	0.5	0.6	0.7	0.8	1.0	1.1	1.2
85°	0.0	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.4
82.5°	0.0	0.4	0.7	1.1	1.5	1.8	2.2	2.5	3.0	3.9	4.8
80°	0.0	0.5	1.0	1.5	1.9	2.4	3.0	4.3	5.6	6.8	8.0
77.5°	0.0	0.6	1.2	1.8	2.4	3.4	5.0	6.5	8.1	9.6	12.1
75°	0.0	0.7	1.4	2.2	3.0	5.0	6.9	8.8	10.9	15.1	19.1
72.5°	0.0	0.8	1.7	2.5	4.3	6.5	8.8	11.7	16.5	21.3	26.0
70°	0.0	1.0	1.9	3.0	5.6	8.1	10.9	16.5	22.1	27.6	34.5
67.5°	0.0	1.1	2.1	3.9	6.8	9.6	15.1	21.3	27.6	35.4	43.2
65°	0.0	1.2	2.4	4.8	8.0	12.1	19.1	26.0	34.5	43.2	57.5
62.5°	0.0	1.3	2.6	5.7	9.2	15.4	23.1	31.6	41.2	54.3	85.2
60°	0.0	1.4	2.8	6.6	10.3	18.6	27.0	37.4	47.9	78.9	112.4
57.5°	0.0	1.5	3.4	7.4	12.8	21.8	31.7	43.1	66.1	102.9	154.9
55°	0.0	1.6	3.9	8.3	15.3	24.9	36.4	48.6	87.0	130.8	203.8
52.5°	0.0	1.7	4.4	9.1	17.7	28.0	41.0	65.0	107.2	173.7	251.4
50°	0.0	1.8	5.0	9.8	20.0	31.7	45.5	82.1	131.9	215.3	319.9
47.5°	0.0	1.9	5.5	10.8	22.2	35.3	51.2	98.7	167.6	255.5	388.7
45°	0.0	2.0	5.9	12.4	24.4	38.8	64.9	114.7	202.0	314.7	455.2
42.5°	0.0	2.1	6.4	14.0	26.4	42.1	78.0	137.8	235.1	372.0	548.2
40°	0.0	2.1	6.8	15.4	28.7	45.2	90.5	165.4	272.1	426.8	642.2
37.5°	0.0	2.2	7.3	16.8	31.0	48.2	102.4	191.6	318.3	486.8	731.8
35°	0.0	2.3	7.6	18.1	33.3	55.3	113.6	216.4	362.1	562.8	824.9
32.5°	0.0	2.4	8.0	19.4	35.4	64.1	127.0	239.7	403.4	634.5	925.2
30°	0.0	2.4	8.4	20.5	37.4	72.3	145.6	264.3	442.0	701.7	1019.3
27.5°	0.0	2.5	8.7	21.6	39.3	79.9	162.9	295.5	485.0	764.1	1106.9
25°	0.0	2.5	9.0	22.6	41.0	86.9	178.8	324.2	535.8	831.2	1188.3
22.5°	0.0	2.6	9.2	23.5	42.5	93.3	193.3	350.5	582.2	897.0	1276.3
20°	0.0	2.6	9.5	24.3	43.9	99.1	206.4	374.1	624.0	956.4	1355.8
17.5°	0.0	2.7	9.7	25.0	45.1	104.2	218.0	395.1	661.1	1009.2	1426.4
15°	0.0	2.7	9.9	25.7	46.2	108.7	228.1	413.3	693.5	1055.3	1488.1
12.5°	0.0	2.7	10.0	26.2	47.1	112.4	236.7	428.9	721.1	1094.4	1540.6
10°	0.0	2.8	10.2	26.6	47.9	115.6	243.8	441.7	743.7	1126.7	1583.8
7.5°	0.0	2.8	10.3	27.0	48.4	118.0	249.3	451.6	761.4	1151.8	1617.5
5°	0.0	2.8	10.3	27.2	48.9	119.7	253.2	458.8	774.1	1169.9	1641.7
2.5°	0.0	2.8	10.4	27.4	49.1	120.8	255.6	463.1	781.7	1180.7	1656.3
0°	0.0	2.8	10.4	27.4	49.2	121.1	256.4	464.5	784.2	1184.3	1661.1
-2.5°	0.0	2.8	10.4	27.4	49.1	120.8	255.6	463.1	781.7	1180.7	1656.3
-5°	0.0	2.8	10.3	27.2	48.9	119.7	253.2	458.8	774.1	1169.9	1641.7
-7.5°	0.0	2.8	10.3	27.0	48.4	118.0	249.3	451.6	761.4	1151.8	1617.5
-10°	0.0	2.8	10.2	26.6	47.9	115.6	243.8	441.7	743.7	1126.7	1583.8
-12.5°	0.0	2.7	10.0	26.2	47.1	112.4	236.7	428.9	721.1	1094.4	1540.6
-15°	0.0	2.7	9.9	25.7	46.2	108.7	228.1	413.3	693.5	1055.3	1488.1
-17.5°	0.0	2.7	9.7	25.0	45.1	104.2	218.0	395.1	661.1	1009.2	1426.4
-20°	0.0	2.6	9.5	24.3	43.9	99.1	206.4	374.1	624.0	956.4	1355.8



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 CATALOG NUMBER: EPH-LS-16-1200L-57-80-4S-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	2.6	9.2	23.5	42.5	93.3	193.3	350.5	582.2	897.0	1276.3
-25°	0.0	2.5	9.0	22.6	41.0	86.9	178.8	324.2	535.8	831.2	1188.3
-27.5°	0.0	2.5	8.7	21.6	39.3	79.9	162.9	295.5	485.0	764.1	1106.9
-30°	0.0	2.4	8.4	20.5	37.4	72.3	145.6	264.3	442.0	701.7	1019.3
-32.5°	0.0	2.4	8.0	19.4	35.4	64.1	127.0	239.7	403.4	634.5	925.2
-35°	0.0	2.3	7.6	18.1	33.3	55.3	113.6	216.4	362.1	562.8	824.9
-37.5°	0.0	2.2	7.3	16.8	31.0	48.2	102.4	191.6	318.3	486.8	731.8
-40°	0.0	2.1	6.8	15.4	28.7	45.2	90.5	165.4	272.1	426.8	642.2
-42.5°	0.0	2.1	6.4	14.0	26.4	42.1	78.0	137.8	235.1	372.0	548.2
-45°	0.0	2.0	5.9	12.4	24.4	38.8	64.9	114.7	202.0	314.7	455.2
-47.5°	0.0	1.9	5.5	10.8	22.2	35.3	51.2	98.7	167.6	255.5	388.7
-50°	0.0	1.8	5.0	9.8	20.0	31.7	45.5	82.1	131.9	215.3	319.9
-52.5°	0.0	1.7	4.4	9.1	17.7	28.0	41.0	65.0	107.2	173.7	251.4
-55°	0.0	1.6	3.9	8.3	15.3	24.9	36.4	48.6	87.0	130.8	203.8
-57.5°	0.0	1.5	3.4	7.4	12.8	21.8	31.7	43.1	66.1	102.9	154.9
-60°	0.0	1.4	2.8	6.6	10.3	18.6	27.0	37.4	47.9	78.9	112.4
-62.5°	0.0	1.3	2.6	5.7	9.2	15.4	23.1	31.6	41.2	54.3	85.2
-65°	0.0	1.2	2.4	4.8	8.0	12.1	19.1	26.0	34.5	43.2	57.5
-67.5°	0.0	1.1	2.1	3.9	6.8	9.6	15.1	21.3	27.6	35.4	43.2
-70°	0.0	1.0	1.9	3.0	5.6	8.1	10.9	16.5	22.1	27.6	34.5
-72.5°	0.0	0.8	1.7	2.5	4.3	6.5	8.8	11.7	16.5	21.3	26.0
-75°	0.0	0.7	1.4	2.2	3.0	5.0	6.9	8.8	10.9	15.1	19.1
-77.5°	0.0	0.6	1.2	1.8	2.4	3.4	5.0	6.5	8.1	9.6	12.1
-80°	0.0	0.5	1.0	1.5	1.9	2.4	3.0	4.3	5.6	6.8	8.0
-82.5°	0.0	0.4	0.7	1.1	1.5	1.8	2.2	2.5	3.0	3.9	4.8
-85°	0.0	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.4
-87.5°	0.0	0.1	0.2	0.4	0.5	0.6	0.7	0.8	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-16-1200L-57-80-4S-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	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.1	2.2
85°	2.6	2.8	3.4	3.9	4.4	5.0	5.5	5.9	6.4	6.8	7.3
82.5°	5.7	6.6	7.4	8.3	9.1	9.8	10.8	12.4	14.0	15.4	16.8
80°	9.2	10.3	12.8	15.3	17.7	20.0	22.2	24.4	26.4	28.7	31.0
77.5°	15.4	18.6	21.8	24.9	28.0	31.7	35.3	38.8	42.1	45.2	48.2
75°	23.1	27.0	31.7	36.4	41.0	45.5	51.2	64.9	78.0	90.5	102.4
72.5°	31.6	37.4	43.1	48.6	65.0	82.1	98.7	114.7	137.8	165.4	191.6
70°	41.2	47.9	66.1	87.0	107.2	131.9	167.6	202.0	235.1	272.1	318.3
67.5°	54.3	78.9	102.9	130.8	173.7	215.3	255.5	314.7	372.0	426.8	486.8
65°	85.2	112.4	154.9	203.8	251.4	319.9	388.7	455.2	548.2	642.2	731.8
62.5°	115.7	167.0	222.0	286.2	366.7	445.0	551.1	663.6	771.9	898.6	1022.6
60°	167.0	228.1	305.0	395.1	492.7	624.0	751.3	897.0	1045.3	1188.3	1350.3
57.5°	222.0	305.0	404.5	522.0	668.1	816.9	989.7	1157.0	1343.9	1528.6	1710.5
55°	286.2	395.1	522.0	682.9	854.1	1045.8	1241.4	1456.5	1664.7	1888.7	2103.3
52.5°	366.7	492.7	668.1	854.1	1064.6	1286.5	1524.7	1767.3	2017.8	2261.0	2499.3
50°	445.0	624.0	816.9	1045.8	1286.5	1547.5	1818.9	2096.0	2369.2	2635.7	2882.2
47.5°	551.1	751.3	989.7	1241.4	1524.7	1818.9	2122.2	2423.8	2718.4	2986.3	3242.3
45°	663.6	897.0	1157.0	1456.5	1767.3	2096.0	2423.8	2746.1	3038.8	3314.9	3556.3
42.5°	771.9	1045.3	1343.9	1664.7	2017.8	2369.2	2718.4	3038.8	3338.5	3604.2	3873.8
40°	898.6	1188.3	1528.6	1888.7	2261.0	2635.7	2986.3	3314.9	3604.2	3900.5	4196.8
37.5°	1022.6	1350.3	1710.5	2103.3	2499.3	2882.2	3242.3	3556.3	3873.8	4196.8	4640.1
35°	1140.3	1504.4	1898.9	2311.1	2726.7	3110.9	3461.1	3794.3	4142.6	4600.2	5059.0
32.5°	1264.3	1650.0	2077.2	2510.6	2929.7	3320.4	3667.5	4035.0	4481.4	4985.8	5433.9
30°	1388.6	1802.0	2246.4	2698.5	3120.0	3502.0	3876.0	4285.7	4831.8	5322.0	5962.3
27.5°	1504.4	1945.0	2407.6	2865.9	3293.8	3672.3	4075.9	4594.0	5138.1	5697.6	6553.5
25°	1611.3	2077.2	2556.9	3018.1	3440.1	3840.8	4284.1	4881.7	5416.1	6216.6	7901.2
22.5°	1715.0	2198.3	2693.7	3157.7	3574.4	3999.5	4530.3	5124.7	5755.6	6739.6	9363.0
20°	1814.1	2311.1	2812.9	3281.6	3696.3	4143.7	4754.5	5342.6	6165.0	7986.8	11616.6
17.5°	1902.3	2411.5	2916.1	3381.5	3813.2	4299.5	4952.2	5538.3	6533.4	9111.9	14082.5
15°	1979.3	2499.3	3006.4	3468.9	3917.3	4462.0	5111.0	5820.4	7192.4	10400.3	16286.8
12.5°	2044.9	2574.1	3083.4	3543.6	4006.2	4601.2	5247.0	6077.8	7982.1	12139.7	18708.1
10°	2098.9	2635.7	3146.9	3605.2	4079.5	4716.1	5359.5	6290.9	8637.0	13584.9	20724.5
7.5°	2141.1	2683.9	3196.5	3653.4	4137.0	4806.1	5447.8	6458.3	9152.1	14723.3	22315.7
5°	2171.3	2718.4	3232.1	3687.9	4178.3	4870.8	5511.3	6578.8	9523.1	15544.4	23465.2
2.5°	2189.5	2739.2	3253.6	3708.8	4203.1	4909.8	5549.5	6651.4	9747.0	16040.3	24160.1
0°	2195.6	2746.1	3260.7	3715.7	4211.4	4922.8	5562.3	6675.7	9821.9	16206.2	24392.6
-2.5°	2189.5	2739.2	3253.6	3708.8	4203.1	4909.8	5549.5	6651.4	9747.0	16040.3	24160.1
-5°	2171.3	2718.4	3232.1	3687.9	4178.3	4870.8	5511.3	6578.8	9523.1	15544.4	23465.2
-7.5°	2141.1	2683.9	3196.5	3653.4	4137.0	4806.1	5447.8	6458.3	9152.1	14723.3	22315.7
-10°	2098.9	2635.7	3146.9	3605.2	4079.5	4716.1	5359.5	6290.9	8637.0	13584.9	20724.5
-12.5°	2044.9	2574.1	3083.4	3543.6	4006.2	4601.2	5247.0	6077.8	7982.1	12139.7	18708.1
-15°	1979.3	2499.3	3006.4	3468.9	3917.3	4462.0	5111.0	5820.4	7192.4	10400.3	16286.8
-17.5°	1902.3	2411.5	2916.1	3381.5	3813.2	4299.5	4952.2	5538.3	6533.4	9111.9	14082.5
-20°	1814.1	2311.1	2812.9	3281.6	3696.3	4143.7	4754.5	5342.6	6165.0	7986.8	11616.6



REPORT NUMBER: P699929 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-4S-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1715.0	2198.3	2693.7	3157.7	3574.4	3999.5	4530.3	5124.7	5755.6	6739.6	9363.0
-25°	1611.3	2077.2	2556.9	3018.1	3440.1	3840.8	4284.1	4881.7	5416.1	6216.6	7901.2
-27.5°	1504.4	1945.0	2407.6	2865.9	3293.8	3672.3	4075.9	4594.0	5138.1	5697.6	6553.5
-30°	1388.6	1802.0	2246.4	2698.5	3120.0	3502.0	3876.0	4285.7	4831.8	5322.0	5962.3
-32.5°	1264.3	1650.0	2077.2	2510.6	2929.7	3320.4	3667.5	4035.0	4481.4	4985.8	5433.9
-35°	1140.3	1504.4	1898.9	2311.1	2726.7	3110.9	3461.1	3794.3	4142.6	4600.2	5059.0
-37.5°	1022.6	1350.3	1710.5	2103.3	2499.3	2882.2	3242.3	3556.3	3873.8	4196.8	4640.1
-40°	898.6	1188.3	1528.6	1888.7	2261.0	2635.7	2986.3	3314.9	3604.2	3900.5	4196.8
-42.5°	771.9	1045.3	1343.9	1664.7	2017.8	2369.2	2718.4	3038.8	3338.5	3604.2	3873.8
-45°	663.6	897.0	1157.0	1456.5	1767.3	2096.0	2423.8	2746.1	3038.8	3314.9	3556.3
-47.5°	551.1	751.3	989.7	1241.4	1524.7	1818.9	2122.2	2423.8	2718.4	2986.3	3242.3
-50°	445.0	624.0	816.9	1045.8	1286.5	1547.5	1818.9	2096.0	2369.2	2635.7	2882.2
-52.5°	366.7	492.7	668.1	854.1	1064.6	1286.5	1524.7	1767.3	2017.8	2261.0	2499.3
-55°	286.2	395.1	522.0	682.9	854.1	1045.8	1241.4	1456.5	1664.7	1888.7	2103.3
-57.5°	222.0	305.0	404.5	522.0	668.1	816.9	989.7	1157.0	1343.9	1528.6	1710.5
-60°	167.0	228.1	305.0	395.1	492.7	624.0	751.3	897.0	1045.3	1188.3	1350.3
-62.5°	115.7	167.0	222.0	286.2	366.7	445.0	551.1	663.6	771.9	898.6	1022.6
-65°	85.2	112.4	154.9	203.8	251.4	319.9	388.7	455.2	548.2	642.2	731.8
-67.5°	54.3	78.9	102.9	130.8	173.7	215.3	255.5	314.7	372.0	426.8	486.8
-70°	41.2	47.9	66.1	87.0	107.2	131.9	167.6	202.0	235.1	272.1	318.3
-72.5°	31.6	37.4	43.1	48.6	65.0	82.1	98.7	114.7	137.8	165.4	191.6
-75°	23.1	27.0	31.7	36.4	41.0	45.5	51.2	64.9	78.0	90.5	102.4
-77.5°	15.4	18.6	21.8	24.9	28.0	31.7	35.3	38.8	42.1	45.2	48.2
-80°	9.2	10.3	12.8	15.3	17.7	20.0	22.2	24.4	26.4	28.7	31.0
-82.5°	5.7	6.6	7.4	8.3	9.1	9.8	10.8	12.4	14.0	15.4	16.8
-85°	2.6	2.8	3.4	3.9	4.4	5.0	5.5	5.9	6.4	6.8	7.3
-87.5°	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.1	2.2
-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: P699929 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-4S-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°	2.3	2.4	2.4	2.5	2.5	2.6	2.6	2.7	2.7	2.7	2.8
85°	7.6	8.0	8.4	8.7	9.0	9.2	9.5	9.7	9.9	10.0	10.2
82.5°	18.1	19.4	20.5	21.6	22.6	23.5	24.3	25.0	25.7	26.2	26.6
80°	33.3	35.4	37.4	39.3	41.0	42.5	43.9	45.1	46.2	47.1	47.9
77.5°	55.3	64.1	72.3	79.9	86.9	93.3	99.1	104.2	108.7	112.4	115.6
75°	113.6	127.0	145.6	162.9	178.8	193.3	206.4	218.0	228.1	236.7	243.8
72.5°	216.4	239.7	264.3	295.5	324.2	350.5	374.1	395.1	413.3	428.9	441.7
70°	362.1	403.4	442.0	485.0	535.8	582.2	624.0	661.1	693.5	721.1	743.7
67.5°	562.8	634.5	701.7	764.1	831.2	897.0	956.4	1009.2	1055.3	1094.4	1126.7
65°	824.9	925.2	1019.3	1106.9	1188.3	1276.3	1355.8	1426.4	1488.1	1540.6	1583.8
62.5°	1140.3	1264.3	1388.6	1504.4	1611.3	1715.0	1814.1	1902.3	1979.3	2044.9	2098.9
60°	1504.4	1650.0	1802.0	1945.0	2077.2	2198.3	2311.1	2411.5	2499.3	2574.1	2635.7
57.5°	1898.9	2077.2	2246.4	2407.6	2556.9	2693.7	2812.9	2916.1	3006.4	3083.4	3146.9
55°	2311.1	2510.6	2698.5	2865.9	3018.1	3157.7	3281.6	3381.5	3468.9	3543.6	3605.2
52.5°	2726.7	2929.7	3120.0	3293.8	3440.1	3574.4	3696.3	3813.2	3917.3	4006.2	4079.5
50°	3110.9	3320.4	3502.0	3672.3	3840.8	3999.5	4143.7	4299.5	4462.0	4601.2	4716.1
47.5°	3461.1	3667.5	3876.0	4075.9	4284.1	4530.3	4754.5	4952.2	5111.0	5247.0	5359.5
45°	3794.3	4035.0	4285.7	4594.0	4881.7	5124.7	5342.6	5538.3	5820.4	6077.8	6290.9
42.5°	4142.6	4481.4	4831.8	5138.1	5416.1	5755.6	6165.0	6533.4	7192.4	7982.1	8637.0
40°	4600.2	4985.8	5322.0	5697.6	6216.6	6739.6	7986.8	9111.9	10400.3	12139.7	13584.9
37.5°	5059.0	5433.9	5962.3	6553.5	7901.2	9363.0	11616.6	14082.5	16286.8	18708.1	20724.5
35°	5471.5	6096.1	6910.6	8691.6	10936.8	14119.1	17291.9	20706.0	23742.8	26585.6	29017.5
32.5°	6096.1	7105.5	9091.7	12186.2	15826.1	20092.0	24138.7	28193.3	31837.3	35334.3	38552.8
30°	6910.6	9091.7	12606.4	16829.0	21806.0	26713.1	31531.0	36467.7	41262.0	45611.4	49715.7
27.5°	8691.6	12186.2	16829.0	22383.2	28035.4	33606.8	39888.3	45864.9	51935.8	57260.9	63075.8
25°	10936.8	15826.1	21806.0	28035.4	34445.6	41631.7	49031.2	56308.7	64559.1	72093.0	81079.9
22.5°	14119.1	20092.0	26713.1	33606.8	41631.7	50101.8	58917.1	69089.8	80895.8	93781.9	105564.3
20°	17291.9	24138.7	31531.0	39888.3	49031.2	58917.1	70626.5	85941.4	102012.5	118291.2	133161.0
17.5°	20706.0	28193.3	36467.7	45864.9	56308.7	69089.8	85941.4	105124.0	124889.4	146681.7	166930.0
15°	23742.8	31837.3	41262.0	51935.8	64559.1	80895.8	102012.5	124889.4	151319.3	178853.9	206665.4
12.5°	26585.6	35334.3	45611.4	57260.9	72093.0	93781.9	118291.2	146681.7	178853.9	213420.3	243722.4
10°	29017.5	38552.8	49715.7	63075.8	81079.9	105564.3	133161.0	166930.0	206665.4	243722.4	274819.3
7.5°	30941.0	41105.6	52982.2	67728.8	89108.6	115825.7	147999.8	187185.2	229529.1	268150.8	297611.3
5°	32333.0	42957.0	55357.6	71124.2	94993.6	123390.8	159024.1	202598.0	246742.4	284305.9	313810.3
2.5°	33175.6	44079.4	56800.6	73191.9	98588.6	128031.9	165826.8	212186.8	257580.4	294090.9	323388.2
0°	33457.7	44455.5	57284.6	73886.3	99798.1	129596.8	168127.8	215444.8	261288.0	297308.4	326703.2
-2.5°	33175.6	44079.4	56800.6	73191.9	98588.6	128031.9	165826.8	212186.8	257580.4	294090.9	323388.2
-5°	32333.0	42957.0	55357.6	71124.2	94993.6	123390.8	159024.1	202598.0	246742.4	284305.9	313810.3
-7.5°	30941.0	41105.6	52982.2	67728.8	89108.6	115825.7	147999.8	187185.2	229529.1	268150.8	297611.3
-10°	29017.5	38552.8	49715.7	63075.8	81079.9	105564.3	133161.0	166930.0	206665.4	243722.4	274819.3
-12.5°	26585.6	35334.3	45611.4	57260.9	72093.0	93781.9	118291.2	146681.7	178853.9	213420.3	243722.4
-15°	23742.8	31837.3	41262.0	51935.8	64559.1	80895.8	102012.5	124889.4	151319.3	178853.9	206665.4
-17.5°	20706.0	28193.3	36467.7	45864.9	56308.7	69089.8	85941.4	105124.0	124889.4	146681.7	166930.0
-20°	17291.9	24138.7	31531.0	39888.3	49031.2	58917.1	70626.5	85941.4	102012.5	118291.2	133161.0



REPORT NUMBER: P699929 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-4S-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	14119.1	20092.0	26713.1	33606.8	41631.7	50101.8	58917.1	69089.8	80895.8	93781.9	105564.3
-25°	10936.8	15826.1	21806.0	28035.4	34445.6	41631.7	49031.2	56308.7	64559.1	72093.0	81079.9
-27.5°	8691.6	12186.2	16829.0	22383.2	28035.4	33606.8	39888.3	45864.9	51935.8	57260.9	63075.8
-30°	6910.6	9091.7	12606.4	16829.0	21806.0	26713.1	31531.0	36467.7	41262.0	45611.4	49715.7
-32.5°	6096.1	7105.5	9091.7	12186.2	15826.1	20092.0	24138.7	28193.3	31837.3	35334.3	38552.8
-35°	5471.5	6096.1	6910.6	8691.6	10936.8	14119.1	17291.9	20706.0	23742.8	26585.6	29017.5
-37.5°	5059.0	5433.9	5962.3	6553.5	7901.2	9363.0	11616.6	14082.5	16286.8	18708.1	20724.5
-40°	4600.2	4985.8	5322.0	5697.6	6216.6	6739.6	7986.8	9111.9	10400.3	12139.7	13584.9
-42.5°	4142.6	4481.4	4831.8	5138.1	5416.1	5755.6	6165.0	6533.4	7192.4	7982.1	8637.0
-45°	3794.3	4035.0	4285.7	4594.0	4881.7	5124.7	5342.6	5538.3	5820.4	6077.8	6290.9
-47.5°	3461.1	3667.5	3876.0	4075.9	4284.1	4530.3	4754.5	4952.2	5111.0	5247.0	5359.5
-50°	3110.9	3320.4	3502.0	3672.3	3840.8	3999.5	4143.7	4299.5	4462.0	4601.2	4716.1
-52.5°	2726.7	2929.7	3120.0	3293.8	3440.1	3574.4	3696.3	3813.2	3917.3	4006.2	4079.5
-55°	2311.1	2510.6	2698.5	2865.9	3018.1	3157.7	3281.6	3381.5	3468.9	3543.6	3605.2
-57.5°	1898.9	2077.2	2246.4	2407.6	2556.9	2693.7	2812.9	2916.1	3006.4	3083.4	3146.9
-60°	1504.4	1650.0	1802.0	1945.0	2077.2	2198.3	2311.1	2411.5	2499.3	2574.1	2635.7
-62.5°	1140.3	1264.3	1388.6	1504.4	1611.3	1715.0	1814.1	1902.3	1979.3	2044.9	2098.9
-65°	824.9	925.2	1019.3	1106.9	1188.3	1276.3	1355.8	1426.4	1488.1	1540.6	1583.8
-67.5°	562.8	634.5	701.7	764.1	831.2	897.0	956.4	1009.2	1055.3	1094.4	1126.7
-70°	362.1	403.4	442.0	485.0	535.8	582.2	624.0	661.1	693.5	721.1	743.7
-72.5°	216.4	239.7	264.3	295.5	324.2	350.5	374.1	395.1	413.3	428.9	441.7
-75°	113.6	127.0	145.6	162.9	178.8	193.3	206.4	218.0	228.1	236.7	243.8
-77.5°	55.3	64.1	72.3	79.9	86.9	93.3	99.1	104.2	108.7	112.4	115.6
-80°	33.3	35.4	37.4	39.3	41.0	42.5	43.9	45.1	46.2	47.1	47.9
-82.5°	18.1	19.4	20.5	21.6	22.6	23.5	24.3	25.0	25.7	26.2	26.6
-85°	7.6	8.0	8.4	8.7	9.0	9.2	9.5	9.7	9.9	10.0	10.2
-87.5°	2.3	2.4	2.4	2.5	2.5	2.6	2.6	2.7	2.7	2.7	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: P699929 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-4S-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°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.7
85°	10.3	10.3	10.4	10.4	10.4	10.3	10.3	10.2	10.0	9.9	9.7
82.5°	27.0	27.2	27.4	27.4	27.4	27.2	27.0	26.6	26.2	25.7	25.0
80°	48.4	48.9	49.1	49.2	49.1	48.9	48.4	47.9	47.1	46.2	45.1
77.5°	118.0	119.7	120.8	121.1	120.8	119.7	118.0	115.6	112.4	108.7	104.2
75°	249.3	253.2	255.6	256.4	255.6	253.2	249.3	243.8	236.7	228.1	218.0
72.5°	451.6	458.8	463.1	464.5	463.1	458.8	451.6	441.7	428.9	413.3	395.1
70°	761.4	774.1	781.7	784.2	781.7	774.1	761.4	743.7	721.1	693.5	661.1
67.5°	1151.8	1169.9	1180.7	1184.3	1180.7	1169.9	1151.8	1126.7	1094.4	1055.3	1009.2
65°	1617.5	1641.7	1656.3	1661.1	1656.3	1641.7	1617.5	1583.8	1540.6	1488.1	1426.4
62.5°	2141.1	2171.3	2189.5	2195.6	2189.5	2171.3	2141.1	2098.9	2044.9	1979.3	1902.3
60°	2683.9	2718.4	2739.2	2746.1	2739.2	2718.4	2683.9	2635.7	2574.1	2499.3	2411.5
57.5°	3196.5	3232.1	3253.6	3260.7	3253.6	3232.1	3196.5	3146.9	3083.4	3006.4	2916.1
55°	3653.4	3687.9	3708.8	3715.7	3708.8	3687.9	3653.4	3605.2	3543.6	3468.9	3381.5
52.5°	4137.0	4178.3	4203.1	4211.4	4203.1	4178.3	4137.0	4079.5	4006.2	3917.3	3813.2
50°	4806.1	4870.8	4909.8	4922.8	4909.8	4870.8	4806.1	4716.1	4601.2	4462.0	4299.5
47.5°	5447.8	5511.3	5549.5	5562.3	5549.5	5511.3	5447.8	5359.5	5247.0	5111.0	4952.2
45°	6458.3	6578.8	6651.4	6675.7	6651.4	6578.8	6458.3	6290.9	6077.8	5820.4	5538.3
42.5°	9152.1	9523.1	9747.0	9821.9	9747.0	9523.1	9152.1	8637.0	7982.1	7192.4	6533.4
40°	14723.3	15544.4	16040.3	16206.2	16040.3	15544.4	14723.3	13584.9	12139.7	10400.3	9111.9
37.5°	22315.7	23465.2	24160.1	24392.6	24160.1	23465.2	22315.7	20724.5	18708.1	16286.8	14082.5
35°	30941.0	32333.0	33175.6	33457.7	33175.6	32333.0	30941.0	29017.5	26585.6	23742.8	20706.0
32.5°	41105.6	42957.0	44079.4	44455.5	44079.4	42957.0	41105.6	38552.8	35334.3	31837.3	28193.3
30°	52982.2	55357.6	56800.6	57284.6	56800.6	55357.6	52982.2	49715.7	45611.4	41262.0	36467.7
27.5°	67728.8	71124.2	73191.9	73886.3	73191.9	71124.2	67728.8	63075.8	57260.9	51935.8	45864.9
25°	89108.6	94993.6	98588.6	99798.1	98588.6	94993.6	89108.6	81079.9	72093.0	64559.1	56308.7
22.5°	115825.7	123390.8	128031.9	129596.8	128031.9	123390.8	115825.7	105564.3	93781.9	80895.8	69089.8
20°	147999.8	159024.1	165826.8	168127.8	165826.8	159024.1	147999.8	133161.0	118291.2	102012.5	85941.4
17.5°	187185.2	202598.0	212186.8	215444.8	212186.8	202598.0	187185.2	166930.0	146681.7	124889.4	105124.0
15°	229529.1	246742.4	257580.4	261288.0	257580.4	246742.4	229529.1	206665.4	178853.9	151319.3	124889.4
12.5°	268150.8	284305.9	294090.9	297308.4	294090.9	284305.9	268150.8	243722.4	213420.3	178853.9	146681.7
10°	297611.3	313810.3	323388.2	326703.2	323388.2	313810.3	297611.3	274819.3	243722.4	206665.4	166930.0
7.5°	320268.4	337192.7	347926.1	351448.2	347926.1	337192.7	320268.4	297611.3	268150.8	229529.1	187185.2
5°	337192.7	355232.1	366049.4	369743.6	366049.4	355232.1	337192.7	313810.3	284305.9	246742.4	202598.0
2.5°	347926.1	366049.4	376539.1	379965.7	376539.1	366049.4	347926.1	323388.2	294090.9	257580.4	212186.8
0°	351448.2	369743.6	379965.7	383848.8	379965.7	369743.6	351448.2	326703.2	297308.4	261288.0	215444.8
-2.5°	347926.1	366049.4	376539.1	379965.7	376539.1	366049.4	347926.1	323388.2	294090.9	257580.4	212186.8
-5°	337192.7	355232.1	366049.4	369743.6	366049.4	355232.1	337192.7	313810.3	284305.9	246742.4	202598.0
-7.5°	320268.4	337192.7	347926.1	351448.2	347926.1	337192.7	320268.4	297611.3	268150.8	229529.1	187185.2
-10°	297611.3	313810.3	323388.2	326703.2	323388.2	313810.3	297611.3	274819.3	243722.4	206665.4	166930.0
-12.5°	268150.8	284305.9	294090.9	297308.4	294090.9	284305.9	268150.8	243722.4	213420.3	178853.9	146681.7
-15°	229529.1	246742.4	257580.4	261288.0	257580.4	246742.4	229529.1	206665.4	178853.9	151319.3	124889.4
-17.5°	187185.2	202598.0	212186.8	215444.8	212186.8	202598.0	187185.2	166930.0	146681.7	124889.4	105124.0
-20°	147999.8	159024.1	165826.8	168127.8	165826.8	159024.1	147999.8	133161.0	118291.2	102012.5	85941.4



REPORT NUMBER: P699929 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-4S-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	115825.7	123390.8	128031.9	129596.8	128031.9	123390.8	115825.7	105564.3	93781.9	80895.8	69089.8
-25°	89108.6	94993.6	98588.6	99798.1	98588.6	94993.6	89108.6	81079.9	72093.0	64559.1	56308.7
-27.5°	67728.8	71124.2	73191.9	73886.3	73191.9	71124.2	67728.8	63075.8	57260.9	51935.8	45864.9
-30°	52982.2	55357.6	56800.6	57284.6	56800.6	55357.6	52982.2	49715.7	45611.4	41262.0	36467.7
-32.5°	41105.6	42957.0	44079.4	44455.5	44079.4	42957.0	41105.6	38552.8	35334.3	31837.3	28193.3
-35°	30941.0	32333.0	33175.6	33457.7	33175.6	32333.0	30941.0	29017.5	26585.6	23742.8	20706.0
-37.5°	22315.7	23465.2	24160.1	24392.6	24160.1	23465.2	22315.7	20724.5	18708.1	16286.8	14082.5
-40°	14723.3	15544.4	16040.3	16206.2	16040.3	15544.4	14723.3	13584.9	12139.7	10400.3	9111.9
-42.5°	9152.1	9523.1	9747.0	9821.9	9747.0	9523.1	9152.1	8637.0	7982.1	7192.4	6533.4
-45°	6458.3	6578.8	6651.4	6675.7	6651.4	6578.8	6458.3	6290.9	6077.8	5820.4	5538.3
-47.5°	5447.8	5511.3	5549.5	5562.3	5549.5	5511.3	5447.8	5359.5	5247.0	5111.0	4952.2
-50°	4806.1	4870.8	4909.8	4922.8	4909.8	4870.8	4806.1	4716.1	4601.2	4462.0	4299.5
-52.5°	4137.0	4178.3	4203.1	4211.4	4203.1	4178.3	4137.0	4079.5	4006.2	3917.3	3813.2
-55°	3653.4	3687.9	3708.8	3715.7	3708.8	3687.9	3653.4	3605.2	3543.6	3468.9	3381.5
-57.5°	3196.5	3232.1	3253.6	3260.7	3253.6	3232.1	3196.5	3146.9	3083.4	3006.4	2916.1
-60°	2683.9	2718.4	2739.2	2746.1	2739.2	2718.4	2683.9	2635.7	2574.1	2499.3	2411.5
-62.5°	2141.1	2171.3	2189.5	2195.6	2189.5	2171.3	2141.1	2098.9	2044.9	1979.3	1902.3
-65°	1617.5	1641.7	1656.3	1661.1	1656.3	1641.7	1617.5	1583.8	1540.6	1488.1	1426.4
-67.5°	1151.8	1169.9	1180.7	1184.3	1180.7	1169.9	1151.8	1126.7	1094.4	1055.3	1009.2
-70°	761.4	774.1	781.7	784.2	781.7	774.1	761.4	743.7	721.1	693.5	661.1
-72.5°	451.6	458.8	463.1	464.5	463.1	458.8	451.6	441.7	428.9	413.3	395.1
-75°	249.3	253.2	255.6	256.4	255.6	253.2	249.3	243.8	236.7	228.1	218.0
-77.5°	118.0	119.7	120.8	121.1	120.8	119.7	118.0	115.6	112.4	108.7	104.2
-80°	48.4	48.9	49.1	49.2	49.1	48.9	48.4	47.9	47.1	46.2	45.1
-82.5°	27.0	27.2	27.4	27.4	27.4	27.2	27.0	26.6	26.2	25.7	25.0
-85°	10.3	10.3	10.4	10.4	10.4	10.3	10.3	10.2	10.0	9.9	9.7
-87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.7
-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: P699929 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-4S-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°	2.6	2.6	2.5	2.5	2.4	2.4	2.3	2.2	2.1	2.1	2.0
85°	9.5	9.2	9.0	8.7	8.4	8.0	7.6	7.3	6.8	6.4	5.9
82.5°	24.3	23.5	22.6	21.6	20.5	19.4	18.1	16.8	15.4	14.0	12.4
80°	43.9	42.5	41.0	39.3	37.4	35.4	33.3	31.0	28.7	26.4	24.4
77.5°	99.1	93.3	86.9	79.9	72.3	64.1	55.3	48.2	45.2	42.1	38.8
75°	206.4	193.3	178.8	162.9	145.6	127.0	113.6	102.4	90.5	78.0	64.9
72.5°	374.1	350.5	324.2	295.5	264.3	239.7	216.4	191.6	165.4	137.8	114.7
70°	624.0	582.2	535.8	485.0	442.0	403.4	362.1	318.3	272.1	235.1	202.0
67.5°	956.4	897.0	831.2	764.1	701.7	634.5	562.8	486.8	426.8	372.0	314.7
65°	1355.8	1276.3	1188.3	1106.9	1019.3	925.2	824.9	731.8	642.2	548.2	455.2
62.5°	1814.1	1715.0	1611.3	1504.4	1388.6	1264.3	1140.3	1022.6	898.6	771.9	663.6
60°	2311.1	2198.3	2077.2	1945.0	1802.0	1650.0	1504.4	1350.3	1188.3	1045.3	897.0
57.5°	2812.9	2693.7	2556.9	2407.6	2246.4	2077.2	1898.9	1710.5	1528.6	1343.9	1157.0
55°	3281.6	3157.7	3018.1	2865.9	2698.5	2510.6	2311.1	2103.3	1888.7	1664.7	1456.5
52.5°	3696.3	3574.4	3440.1	3293.8	3120.0	2929.7	2726.7	2499.3	2261.0	2017.8	1767.3
50°	4143.7	3999.5	3840.8	3672.3	3502.0	3320.4	3110.9	2882.2	2635.7	2369.2	2096.0
47.5°	4754.5	4530.3	4284.1	4075.9	3876.0	3667.5	3461.1	3242.3	2986.3	2718.4	2423.8
45°	5342.6	5124.7	4881.7	4594.0	4285.7	4035.0	3794.3	3556.3	3314.9	3038.8	2746.1
42.5°	6165.0	5755.6	5416.1	5138.1	4831.8	4481.4	4142.6	3873.8	3604.2	3338.5	3038.8
40°	7986.8	6739.6	6216.6	5697.6	5322.0	4985.8	4600.2	4196.8	3900.5	3604.2	3314.9
37.5°	11616.6	9363.0	7901.2	6553.5	5962.3	5433.9	5059.0	4640.1	4196.8	3873.8	3556.3
35°	17291.9	14119.1	10936.8	8691.6	6910.6	6096.1	5471.5	5059.0	4600.2	4142.6	3794.3
32.5°	24138.7	20092.0	15826.1	12186.2	9091.7	7105.5	6096.1	5433.9	4985.8	4481.4	4035.0
30°	31531.0	26713.1	21806.0	16829.0	12606.4	9091.7	6910.6	5962.3	5322.0	4831.8	4285.7
27.5°	39888.3	33606.8	28035.4	22383.2	16829.0	12186.2	8691.6	6553.5	5697.6	5138.1	4594.0
25°	49031.2	41631.7	34445.6	28035.4	21806.0	15826.1	10936.8	7901.2	6216.6	5416.1	4881.7
22.5°	58917.1	50101.8	41631.7	33606.8	26713.1	20092.0	14119.1	9363.0	6739.6	5755.6	5124.7
20°	70626.5	58917.1	49031.2	39888.3	31531.0	24138.7	17291.9	11616.6	7986.8	6165.0	5342.6
17.5°	85941.4	69089.8	56308.7	45864.9	36467.7	28193.3	20706.0	14082.5	9111.9	6533.4	5538.3
15°	102012.5	80895.8	64559.1	51935.8	41262.0	31837.3	23742.8	16286.8	10400.3	7192.4	5820.4
12.5°	118291.2	93781.9	72093.0	57260.9	45611.4	35334.3	26585.6	18708.1	12139.7	7982.1	6077.8
10°	133161.0	105564.3	81079.9	63075.8	49715.7	38552.8	29017.5	20724.5	13584.9	8637.0	6290.9
7.5°	147999.8	115825.7	89108.6	67728.8	52982.2	41105.6	30941.0	22315.7	14723.3	9152.1	6458.3
5°	159024.1	123390.8	94993.6	71124.2	55357.6	42957.0	32333.0	23465.2	15544.4	9523.1	6578.8
2.5°	165826.8	128031.9	98588.6	73191.9	56800.6	44079.4	33175.6	24160.1	16040.3	9747.0	6651.4
0°	168127.8	129596.8	99798.1	73886.3	57284.6	44455.5	33457.7	24392.6	16206.2	9821.9	6675.7
-2.5°	165826.8	128031.9	98588.6	73191.9	56800.6	44079.4	33175.6	24160.1	16040.3	9747.0	6651.4
-5°	159024.1	123390.8	94993.6	71124.2	55357.6	42957.0	32333.0	23465.2	15544.4	9523.1	6578.8
-7.5°	147999.8	115825.7	89108.6	67728.8	52982.2	41105.6	30941.0	22315.7	14723.3	9152.1	6458.3
-10°	133161.0	105564.3	81079.9	63075.8	49715.7	38552.8	29017.5	20724.5	13584.9	8637.0	6290.9
-12.5°	118291.2	93781.9	72093.0	57260.9	45611.4	35334.3	26585.6	18708.1	12139.7	7982.1	6077.8
-15°	102012.5	80895.8	64559.1	51935.8	41262.0	31837.3	23742.8	16286.8	10400.3	7192.4	5820.4
-17.5°	85941.4	69089.8	56308.7	45864.9	36467.7	28193.3	20706.0	14082.5	9111.9	6533.4	5538.3
-20°	70626.5	58917.1	49031.2	39888.3	31531.0	24138.7	17291.9	11616.6	7986.8	6165.0	5342.6



REPORT NUMBER: P699929 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-4S-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	58917.1	50101.8	41631.7	33606.8	26713.1	20092.0	14119.1	9363.0	6739.6	5755.6	5124.7
-25°	49031.2	41631.7	34445.6	28035.4	21806.0	15826.1	10936.8	7901.2	6216.6	5416.1	4881.7
-27.5°	39888.3	33606.8	28035.4	22383.2	16829.0	12186.2	8691.6	6553.5	5697.6	5138.1	4594.0
-30°	31531.0	26713.1	21806.0	16829.0	12606.4	9091.7	6910.6	5962.3	5322.0	4831.8	4285.7
-32.5°	24138.7	20092.0	15826.1	12186.2	9091.7	7105.5	6096.1	5433.9	4985.8	4481.4	4035.0
-35°	17291.9	14119.1	10936.8	8691.6	6910.6	6096.1	5471.5	5059.0	4600.2	4142.6	3794.3
-37.5°	11616.6	9363.0	7901.2	6553.5	5962.3	5433.9	5059.0	4640.1	4196.8	3873.8	3556.3
-40°	7986.8	6739.6	6216.6	5697.6	5322.0	4985.8	4600.2	4196.8	3900.5	3604.2	3314.9
-42.5°	6165.0	5755.6	5416.1	5138.1	4831.8	4481.4	4142.6	3873.8	3604.2	3338.5	3038.8
-45°	5342.6	5124.7	4881.7	4594.0	4285.7	4035.0	3794.3	3556.3	3314.9	3038.8	2746.1
-47.5°	4754.5	4530.3	4284.1	4075.9	3876.0	3667.5	3461.1	3242.3	2986.3	2718.4	2423.8
-50°	4143.7	3999.5	3840.8	3672.3	3502.0	3320.4	3110.9	2882.2	2635.7	2369.2	2096.0
-52.5°	3696.3	3574.4	3440.1	3293.8	3120.0	2929.7	2726.7	2499.3	2261.0	2017.8	1767.3
-55°	3281.6	3157.7	3018.1	2865.9	2698.5	2510.6	2311.1	2103.3	1888.7	1664.7	1456.5
-57.5°	2812.9	2693.7	2556.9	2407.6	2246.4	2077.2	1898.9	1710.5	1528.6	1343.9	1157.0
-60°	2311.1	2198.3	2077.2	1945.0	1802.0	1650.0	1504.4	1350.3	1188.3	1045.3	897.0
-62.5°	1814.1	1715.0	1611.3	1504.4	1388.6	1264.3	1140.3	1022.6	898.6	771.9	663.6
-65°	1355.8	1276.3	1188.3	1106.9	1019.3	925.2	824.9	731.8	642.2	548.2	455.2
-67.5°	956.4	897.0	831.2	764.1	701.7	634.5	562.8	486.8	426.8	372.0	314.7
-70°	624.0	582.2	535.8	485.0	442.0	403.4	362.1	318.3	272.1	235.1	202.0
-72.5°	374.1	350.5	324.2	295.5	264.3	239.7	216.4	191.6	165.4	137.8	114.7
-75°	206.4	193.3	178.8	162.9	145.6	127.0	113.6	102.4	90.5	78.0	64.9
-77.5°	99.1	93.3	86.9	79.9	72.3	64.1	55.3	48.2	45.2	42.1	38.8
-80°	43.9	42.5	41.0	39.3	37.4	35.4	33.3	31.0	28.7	26.4	24.4
-82.5°	24.3	23.5	22.6	21.6	20.5	19.4	18.1	16.8	15.4	14.0	12.4
-85°	9.5	9.2	9.0	8.7	8.4	8.0	7.6	7.3	6.8	6.4	5.9
-87.5°	2.6	2.6	2.5	2.5	2.4	2.4	2.3	2.2	2.1	2.1	2.0
-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: P699929 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-4S-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°	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.8
85°	5.5	5.0	4.4	3.9	3.4	2.8	2.6	2.4	2.1	1.9	1.7
82.5°	10.8	9.8	9.1	8.3	7.4	6.6	5.7	4.8	3.9	3.0	2.5
80°	22.2	20.0	17.7	15.3	12.8	10.3	9.2	8.0	6.8	5.6	4.3
77.5°	35.3	31.7	28.0	24.9	21.8	18.6	15.4	12.1	9.6	8.1	6.5
75°	51.2	45.5	41.0	36.4	31.7	27.0	23.1	19.1	15.1	10.9	8.8
72.5°	98.7	82.1	65.0	48.6	43.1	37.4	31.6	26.0	21.3	16.5	11.7
70°	167.6	131.9	107.2	87.0	66.1	47.9	41.2	34.5	27.6	22.1	16.5
67.5°	255.5	215.3	173.7	130.8	102.9	78.9	54.3	43.2	35.4	27.6	21.3
65°	388.7	319.9	251.4	203.8	154.9	112.4	85.2	57.5	43.2	34.5	26.0
62.5°	551.1	445.0	366.7	286.2	222.0	167.0	115.7	85.2	54.3	41.2	31.6
60°	751.3	624.0	492.7	395.1	305.0	228.1	167.0	112.4	78.9	47.9	37.4
57.5°	989.7	816.9	668.1	522.0	404.5	305.0	222.0	154.9	102.9	66.1	43.1
55°	1241.4	1045.8	854.1	682.9	522.0	395.1	286.2	203.8	130.8	87.0	48.6
52.5°	1524.7	1286.5	1064.6	854.1	668.1	492.7	366.7	251.4	173.7	107.2	65.0
50°	1818.9	1547.5	1286.5	1045.8	816.9	624.0	445.0	319.9	215.3	131.9	82.1
47.5°	2122.2	1818.9	1524.7	1241.4	989.7	751.3	551.1	388.7	255.5	167.6	98.7
45°	2423.8	2096.0	1767.3	1456.5	1157.0	897.0	663.6	455.2	314.7	202.0	114.7
42.5°	2718.4	2369.2	2017.8	1664.7	1343.9	1045.3	771.9	548.2	372.0	235.1	137.8
40°	2986.3	2635.7	2261.0	1888.7	1528.6	1188.3	898.6	642.2	426.8	272.1	165.4
37.5°	3242.3	2882.2	2499.3	2103.3	1710.5	1350.3	1022.6	731.8	486.8	318.3	191.6
35°	3461.1	3110.9	2726.7	2311.1	1898.9	1504.4	1140.3	824.9	562.8	362.1	216.4
32.5°	3667.5	3320.4	2929.7	2510.6	2077.2	1650.0	1264.3	925.2	634.5	403.4	239.7
30°	3876.0	3502.0	3120.0	2698.5	2246.4	1802.0	1388.6	1019.3	701.7	442.0	264.3
27.5°	4075.9	3672.3	3293.8	2865.9	2407.6	1945.0	1504.4	1106.9	764.1	485.0	295.5
25°	4284.1	3840.8	3440.1	3018.1	2556.9	2077.2	1611.3	1188.3	831.2	535.8	324.2
22.5°	4530.3	3999.5	3574.4	3157.7	2693.7	2198.3	1715.0	1276.3	897.0	582.2	350.5
20°	4754.5	4143.7	3696.3	3281.6	2812.9	2311.1	1814.1	1355.8	956.4	624.0	374.1
17.5°	4952.2	4299.5	3813.2	3381.5	2916.1	2411.5	1902.3	1426.4	1009.2	661.1	395.1
15°	5111.0	4462.0	3917.3	3468.9	3006.4	2499.3	1979.3	1488.1	1055.3	693.5	413.3
12.5°	5247.0	4601.2	4006.2	3543.6	3083.4	2574.1	2044.9	1540.6	1094.4	721.1	428.9
10°	5359.5	4716.1	4079.5	3605.2	3146.9	2635.7	2098.9	1583.8	1126.7	743.7	441.7
7.5°	5447.8	4806.1	4137.0	3653.4	3196.5	2683.9	2141.1	1617.5	1151.8	761.4	451.6
5°	5511.3	4870.8	4178.3	3687.9	3232.1	2718.4	2171.3	1641.7	1169.9	774.1	458.8
2.5°	5549.5	4909.8	4203.1	3708.8	3253.6	2739.2	2189.5	1656.3	1180.7	781.7	463.1
0°	5562.3	4922.8	4211.4	3715.7	3260.7	2746.1	2195.6	1661.1	1184.3	784.2	464.5
-2.5°	5549.5	4909.8	4203.1	3708.8	3253.6	2739.2	2189.5	1656.3	1180.7	781.7	463.1
-5°	5511.3	4870.8	4178.3	3687.9	3232.1	2718.4	2171.3	1641.7	1169.9	774.1	458.8
-7.5°	5447.8	4806.1	4137.0	3653.4	3196.5	2683.9	2141.1	1617.5	1151.8	761.4	451.6
-10°	5359.5	4716.1	4079.5	3605.2	3146.9	2635.7	2098.9	1583.8	1126.7	743.7	441.7
-12.5°	5247.0	4601.2	4006.2	3543.6	3083.4	2574.1	2044.9	1540.6	1094.4	721.1	428.9
-15°	5111.0	4462.0	3917.3	3468.9	3006.4	2499.3	1979.3	1488.1	1055.3	693.5	413.3
-17.5°	4952.2	4299.5	3813.2	3381.5	2916.1	2411.5	1902.3	1426.4	1009.2	661.1	395.1
-20°	4754.5	4143.7	3696.3	3281.6	2812.9	2311.1	1814.1	1355.8	956.4	624.0	374.1



REPORT NUMBER: P699929 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-4S-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	4530.3	3999.5	3574.4	3157.7	2693.7	2198.3	1715.0	1276.3	897.0	582.2	350.5
-25°	4284.1	3840.8	3440.1	3018.1	2556.9	2077.2	1611.3	1188.3	831.2	535.8	324.2
-27.5°	4075.9	3672.3	3293.8	2865.9	2407.6	1945.0	1504.4	1106.9	764.1	485.0	295.5
-30°	3876.0	3502.0	3120.0	2698.5	2246.4	1802.0	1388.6	1019.3	701.7	442.0	264.3
-32.5°	3667.5	3320.4	2929.7	2510.6	2077.2	1650.0	1264.3	925.2	634.5	403.4	239.7
-35°	3461.1	3110.9	2726.7	2311.1	1898.9	1504.4	1140.3	824.9	562.8	362.1	216.4
-37.5°	3242.3	2882.2	2499.3	2103.3	1710.5	1350.3	1022.6	731.8	486.8	318.3	191.6
-40°	2986.3	2635.7	2261.0	1888.7	1528.6	1188.3	898.6	642.2	426.8	272.1	165.4
-42.5°	2718.4	2369.2	2017.8	1664.7	1343.9	1045.3	771.9	548.2	372.0	235.1	137.8
-45°	2423.8	2096.0	1767.3	1456.5	1157.0	897.0	663.6	455.2	314.7	202.0	114.7
-47.5°	2122.2	1818.9	1524.7	1241.4	989.7	751.3	551.1	388.7	255.5	167.6	98.7
-50°	1818.9	1547.5	1286.5	1045.8	816.9	624.0	445.0	319.9	215.3	131.9	82.1
-52.5°	1524.7	1286.5	1064.6	854.1	668.1	492.7	366.7	251.4	173.7	107.2	65.0
-55°	1241.4	1045.8	854.1	682.9	522.0	395.1	286.2	203.8	130.8	87.0	48.6
-57.5°	989.7	816.9	668.1	522.0	404.5	305.0	222.0	154.9	102.9	66.1	43.1
-60°	751.3	624.0	492.7	395.1	305.0	228.1	167.0	112.4	78.9	47.9	37.4
-62.5°	551.1	445.0	366.7	286.2	222.0	167.0	115.7	85.2	54.3	41.2	31.6
-65°	388.7	319.9	251.4	203.8	154.9	112.4	85.2	57.5	43.2	34.5	26.0
-67.5°	255.5	215.3	173.7	130.8	102.9	78.9	54.3	43.2	35.4	27.6	21.3
-70°	167.6	131.9	107.2	87.0	66.1	47.9	41.2	34.5	27.6	22.1	16.5
-72.5°	98.7	82.1	65.0	48.6	43.1	37.4	31.6	26.0	21.3	16.5	11.7
-75°	51.2	45.5	41.0	36.4	31.7	27.0	23.1	19.1	15.1	10.9	8.8
-77.5°	35.3	31.7	28.0	24.9	21.8	18.6	15.4	12.1	9.6	8.1	6.5
-80°	22.2	20.0	17.7	15.3	12.8	10.3	9.2	8.0	6.8	5.6	4.3
-82.5°	10.8	9.8	9.1	8.3	7.4	6.6	5.7	4.8	3.9	3.0	2.5
-85°	5.5	5.0	4.4	3.9	3.4	2.8	2.6	2.4	2.1	1.9	1.7
-87.5°	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.8
-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: P699929 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-4S-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°	0.7	0.6	0.5	0.4	0.2	0.1	0.0
85°	1.4	1.2	1.0	0.7	0.5	0.2	0.0
82.5°	2.2	1.8	1.5	1.1	0.7	0.4	0.0
80°	3.0	2.4	1.9	1.5	1.0	0.5	0.0
77.5°	5.0	3.4	2.4	1.8	1.2	0.6	0.0
75°	6.9	5.0	3.0	2.2	1.4	0.7	0.0
72.5°	8.8	6.5	4.3	2.5	1.7	0.8	0.0
70°	10.9	8.1	5.6	3.0	1.9	1.0	0.0
67.5°	15.1	9.6	6.8	3.9	2.1	1.1	0.0
65°	19.1	12.1	8.0	4.8	2.4	1.2	0.0
62.5°	23.1	15.4	9.2	5.7	2.6	1.3	0.0
60°	27.0	18.6	10.3	6.6	2.8	1.4	0.0
57.5°	31.7	21.8	12.8	7.4	3.4	1.5	0.0
55°	36.4	24.9	15.3	8.3	3.9	1.6	0.0
52.5°	41.0	28.0	17.7	9.1	4.4	1.7	0.0
50°	45.5	31.7	20.0	9.8	5.0	1.8	0.0
47.5°	51.2	35.3	22.2	10.8	5.5	1.9	0.0
45°	64.9	38.8	24.4	12.4	5.9	2.0	0.0
42.5°	78.0	42.1	26.4	14.0	6.4	2.1	0.0
40°	90.5	45.2	28.7	15.4	6.8	2.1	0.0
37.5°	102.4	48.2	31.0	16.8	7.3	2.2	0.0
35°	113.6	55.3	33.3	18.1	7.6	2.3	0.0
32.5°	127.0	64.1	35.4	19.4	8.0	2.4	0.0
30°	145.6	72.3	37.4	20.5	8.4	2.4	0.0
27.5°	162.9	79.9	39.3	21.6	8.7	2.5	0.0
25°	178.8	86.9	41.0	22.6	9.0	2.5	0.0
22.5°	193.3	93.3	42.5	23.5	9.2	2.6	0.0
20°	206.4	99.1	43.9	24.3	9.5	2.6	0.0
17.5°	218.0	104.2	45.1	25.0	9.7	2.7	0.0
15°	228.1	108.7	46.2	25.7	9.9	2.7	0.0
12.5°	236.7	112.4	47.1	26.2	10.0	2.7	0.0
10°	243.8	115.6	47.9	26.6	10.2	2.8	0.0
7.5°	249.3	118.0	48.4	27.0	10.3	2.8	0.0
5°	253.2	119.7	48.9	27.2	10.3	2.8	0.0
2.5°	255.6	120.8	49.1	27.4	10.4	2.8	0.0
0°	256.4	121.1	49.2	27.4	10.4	2.8	0.0
-2.5°	255.6	120.8	49.1	27.4	10.4	2.8	0.0
-5°	253.2	119.7	48.9	27.2	10.3	2.8	0.0
-7.5°	249.3	118.0	48.4	27.0	10.3	2.8	0.0
-10°	243.8	115.6	47.9	26.6	10.2	2.8	0.0
-12.5°	236.7	112.4	47.1	26.2	10.0	2.7	0.0
-15°	228.1	108.7	46.2	25.7	9.9	2.7	0.0
-17.5°	218.0	104.2	45.1	25.0	9.7	2.7	0.0
-20°	206.4	99.1	43.9	24.3	9.5	2.6	0.0



REPORT NUMBER: P699929 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-4S-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	193.3	93.3	42.5	23.5	9.2	2.6	0.0
-25°	178.8	86.9	41.0	22.6	9.0	2.5	0.0
-27.5°	162.9	79.9	39.3	21.6	8.7	2.5	0.0
-30°	145.6	72.3	37.4	20.5	8.4	2.4	0.0
-32.5°	127.0	64.1	35.4	19.4	8.0	2.4	0.0
-35°	113.6	55.3	33.3	18.1	7.6	2.3	0.0
-37.5°	102.4	48.2	31.0	16.8	7.3	2.2	0.0
-40°	90.5	45.2	28.7	15.4	6.8	2.1	0.0
-42.5°	78.0	42.1	26.4	14.0	6.4	2.1	0.0
-45°	64.9	38.8	24.4	12.4	5.9	2.0	0.0
-47.5°	51.2	35.3	22.2	10.8	5.5	1.9	0.0
-50°	45.5	31.7	20.0	9.8	5.0	1.8	0.0
-52.5°	41.0	28.0	17.7	9.1	4.4	1.7	0.0
-55°	36.4	24.9	15.3	8.3	3.9	1.6	0.0
-57.5°	31.7	21.8	12.8	7.4	3.4	1.5	0.0
-60°	27.0	18.6	10.3	6.6	2.8	1.4	0.0
-62.5°	23.1	15.4	9.2	5.7	2.6	1.3	0.0
-65°	19.1	12.1	8.0	4.8	2.4	1.2	0.0
-67.5°	15.1	9.6	6.8	3.9	2.1	1.1	0.0
-70°	10.9	8.1	5.6	3.0	1.9	1.0	0.0
-72.5°	8.8	6.5	4.3	2.5	1.7	0.8	0.0
-75°	6.9	5.0	3.0	2.2	1.4	0.7	0.0
-77.5°	5.0	3.4	2.4	1.8	1.2	0.6	0.0
-80°	3.0	2.4	1.9	1.5	1.0	0.5	0.0
-82.5°	2.2	1.8	1.5	1.1	0.7	0.4	0.0
-85°	1.4	1.2	1.0	0.7	0.5	0.2	0.0
-87.5°	0.7	0.6	0.5	0.4	0.2	0.1	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)