

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: P699922 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200L-57-80-1S-S**

Issue Date: 8/10/2023

**Test Information**

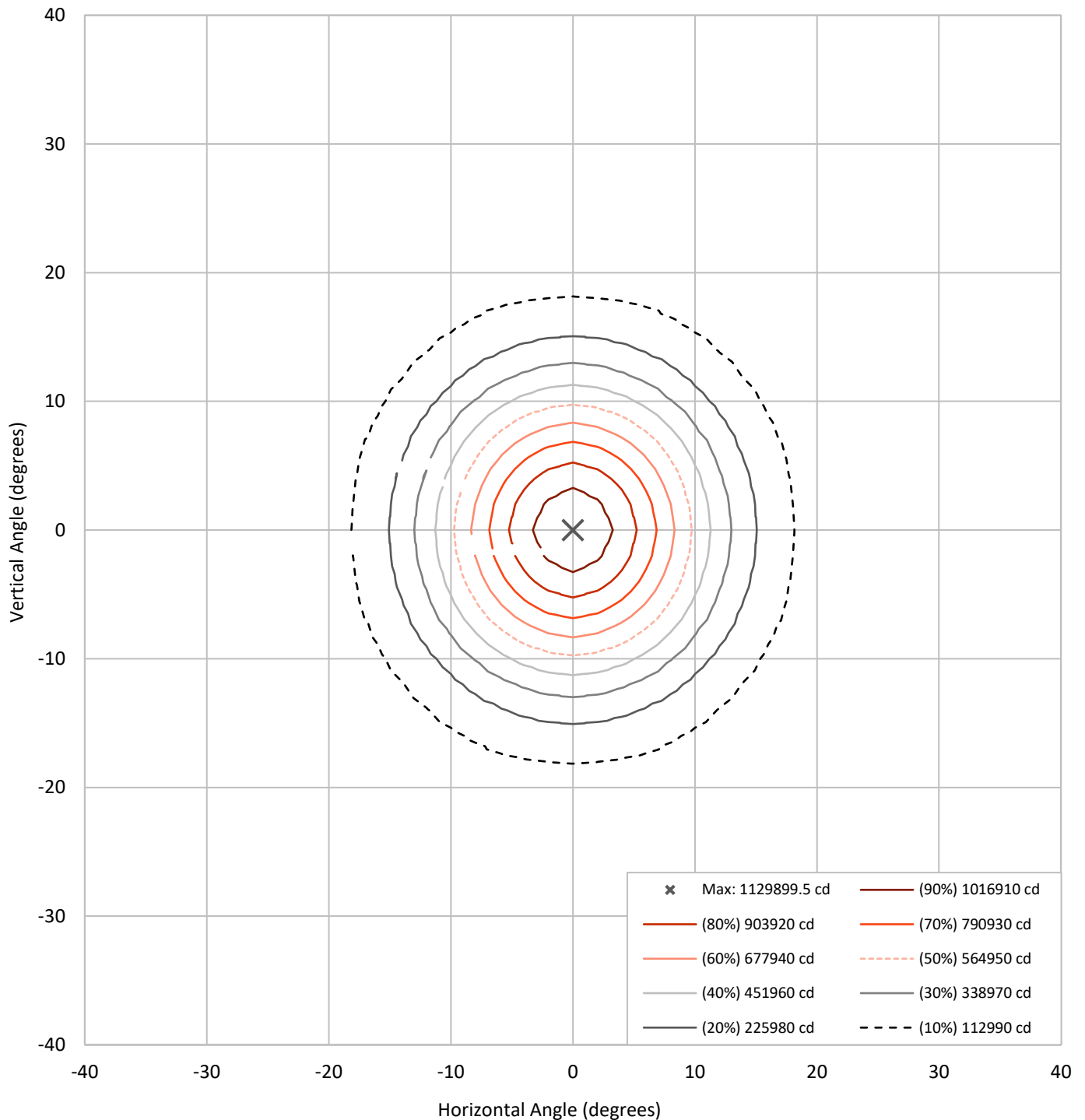
Test Method: LM-79-08  
Report Number: P699922 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-LS-16-1200L-57-80-1S-S  
Description: EPHEBUS LUMASPORT 16 LUMINAIRE  
(16) 5700K, 80 CRI LEDS AND 1S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	171970.7 lumens	Max Intensity:	1129899.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	136.9 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	19.5°H x 19.5°V	Field Angle (10%):	36.3°H x 36.3°V
Beam Lumens:	76614.3 lumens	Field Lumens:	133154.6 lumens
Beam Efficiency:	44.6%	Field Efficiency:	77.4%
Input Watts (W):	1255.9		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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### Iso-Candela Plot





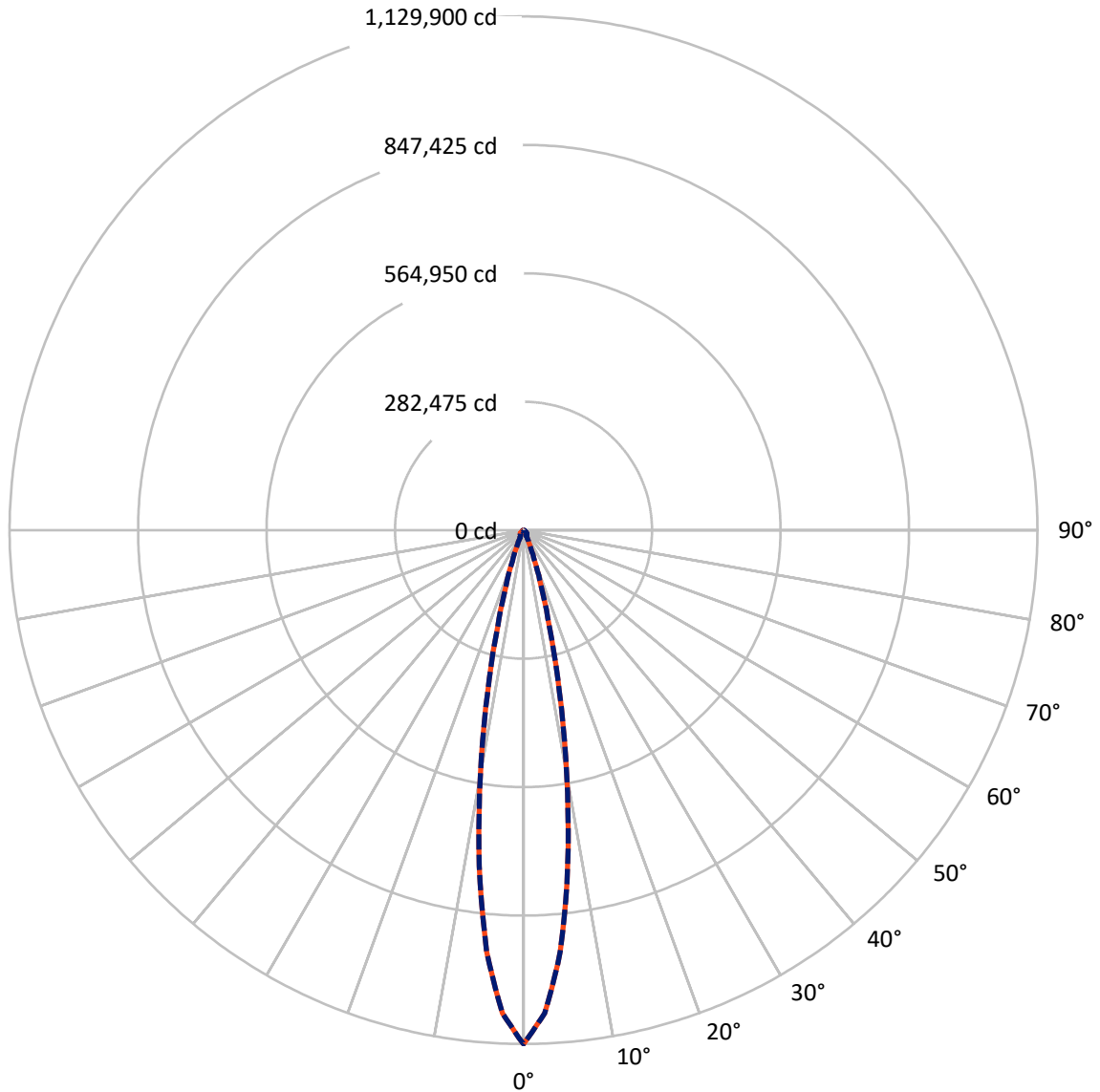
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### Lumen Table

90	0.3	2.0		7.4		17.9		23.2		17.9		7.4		2.0		0.3
80	0.3	2.0		7.4		17.9		23.2		17.9		7.4		2.0		0.3
70	0.9	1.1	4.4	12.3	23.7	35.9	46.3	52.0	52.0	46.3	35.9	23.7	12.3	4.4	1.1	0.9
60		3.3	14.0	33.2	57.3	80.1	96.7	105.7	105.7	96.7	80.1	57.3	33.2	14.0	3.3	
50	2.4	7.6	27.1	57.7	90.2	149.6	225.7	267.9	267.9	225.7	149.6	90.2	57.7	27.1	7.6	2.4
40		12.6	40.5	78.1	175.0	291.1	337.5	356.2	356.2	337.5	291.1	175.0	78.1	40.5	12.6	
30	5.2	17.3	51.2	118.0	263.4	326.6	437.3	755.0	755.0	437.3	326.6	263.4	118.0	51.2	17.3	5.2
20		20.9	57.9	167.3	286.4	411.3	1977.3	6283.3	6283.3	1977.3	411.3	286.4	167.3	57.9	20.9	
10	6.4	22.7	61.4	192.2	293.1	694.0	6127.3	21695.0	21695.0	6127.3	694.0	293.1	192.2	61.4	22.7	6.4
0		22.7	61.4	192.2	293.1	694.0	6127.3	21695.0	21695.0	6127.3	694.0	293.1	192.2	61.4	22.7	
-10	5.2	20.9	57.9	167.3	286.4	411.3	1977.3	6283.3	6283.3	1977.3	411.3	286.4	167.3	57.9	20.9	5.2
-20		17.3	51.2	118.0	263.4	326.6	437.3	755.0	755.0	437.3	326.6	263.4	118.0	51.2	17.3	
-30	2.4	12.6	40.5	78.1	175.0	291.1	337.5	356.2	356.2	337.5	291.1	175.0	78.1	40.5	12.6	2.4
-40		7.6	27.1	57.7	90.2	149.6	225.7	267.9	267.9	225.7	149.6	90.2	57.7	27.1	7.6	
-50	0.9	3.3	14.0	33.2	57.3	80.1	96.7	105.7	105.7	96.7	80.1	57.3	33.2	14.0	3.3	0.9
-60		1.1	4.4	12.3	23.7	35.9	46.3	52.0	52.0	46.3	35.9	23.7	12.3	4.4	1.1	
-70	0.3	2.0		7.4		17.9		23.2		17.9		7.4		2.0		0.3
-80		2.0		7.4		17.9		23.2		17.9		7.4		2.0		
-90	0.3	2.0		7.4		17.9		23.2		17.9		7.4		2.0		0.3

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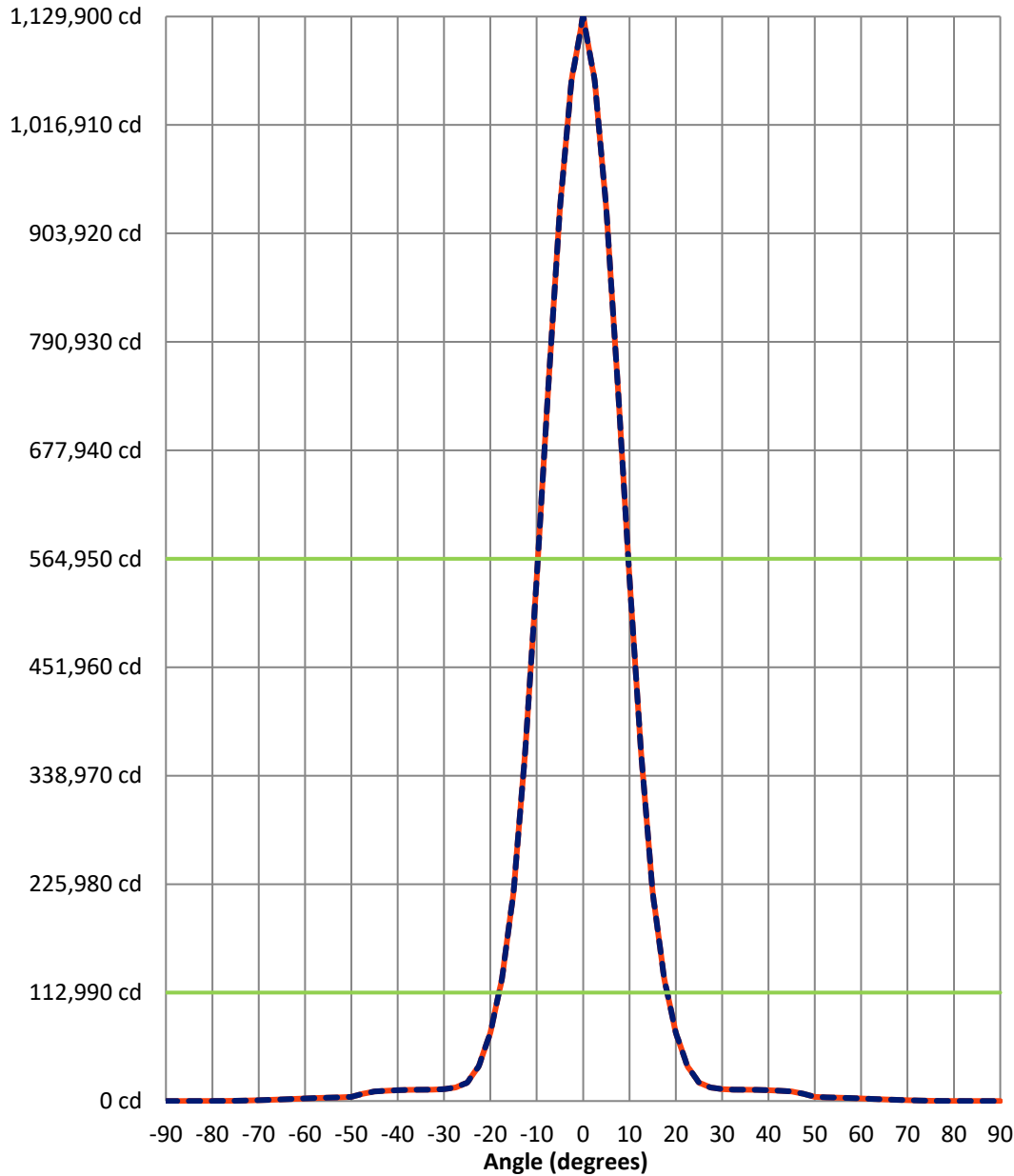
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 19.5°  
 V Angle: 19.5°  
 Lumens: 76614.3  
 Efficiency: 44.6%

**Field:**  
 H Angle: 36.3°  
 V Angle: 36.3°  
 Lumens: 133154.6  
 Efficiency: 77.4%

**Spill:**  
 Lumens: 38816.1  
 Efficiency: 22.6%

- 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	0.8	1.6	2.5	3.3	4.1	4.9	5.7	6.5	7.2	8.0
85°	0.0	1.6	3.3	4.9	6.6	8.2	9.8	11.4	12.9	14.4	16.0
82.5°	0.0	2.5	4.9	7.4	9.8	12.2	14.6	17.0	19.1	20.3	21.4
80°	0.0	3.3	6.6	9.8	13.1	16.3	19.2	20.8	22.3	23.9	25.4
77.5°	0.0	4.1	8.2	12.2	16.3	19.6	21.6	23.6	25.5	27.5	30.3
75°	0.0	4.9	9.8	14.6	19.2	21.6	24.0	26.4	29.0	33.6	38.1
72.5°	0.0	5.7	11.4	17.0	20.8	23.6	26.4	29.8	35.2	40.6	45.8
70°	0.0	6.5	12.9	19.1	22.3	25.5	29.0	35.2	41.4	47.5	53.4
67.5°	0.0	7.2	14.4	20.3	23.9	27.5	33.6	40.6	47.5	54.3	61.0
65°	0.0	8.0	16.0	21.4	25.4	30.3	38.1	45.8	53.4	61.0	72.8
62.5°	0.0	8.7	17.4	22.5	26.9	34.0	42.5	50.9	59.3	70.2	94.7
60°	0.0	9.4	18.9	23.6	28.3	37.6	46.8	56.0	65.0	89.6	116.2
57.5°	0.0	10.2	19.6	24.7	31.1	41.1	51.0	60.9	79.6	108.6	163.2
55°	0.0	10.8	20.3	25.7	33.8	44.5	55.1	65.7	96.0	134.5	221.3
52.5°	0.0	11.5	21.0	26.7	36.5	47.8	59.1	78.6	112.0	185.5	277.9
50°	0.0	12.1	21.6	27.7	39.0	51.1	63.0	92.2	135.9	234.9	364.6
47.5°	0.0	12.8	22.2	28.8	41.5	54.2	67.8	105.3	178.3	282.7	452.2
45°	0.0	13.4	22.8	30.6	43.9	57.2	78.6	117.9	219.2	358.0	536.8
42.5°	0.0	13.9	23.4	32.3	46.2	60.0	88.9	142.9	258.4	430.9	635.4
40°	0.0	14.5	23.9	34.0	48.4	62.8	98.8	175.6	303.8	500.7	732.7
37.5°	0.0	15.0	24.5	35.5	50.5	65.3	108.2	206.7	362.7	571.8	825.4
35°	0.0	15.5	25.0	37.0	52.4	71.0	117.1	236.2	418.4	650.5	919.2
32.5°	0.0	15.9	25.4	38.4	54.3	78.0	130.0	264.0	470.9	724.7	1016.4
30°	0.0	16.4	25.8	39.7	56.0	84.5	152.1	293.9	520.0	794.2	1107.6
27.5°	0.0	16.8	26.2	40.9	57.6	90.5	172.7	333.6	569.9	858.9	1192.5
25°	0.0	17.1	26.6	42.0	59.1	96.0	191.6	370.2	622.5	925.2	1271.3
22.5°	0.0	17.5	27.0	43.0	60.4	101.1	208.8	403.5	670.5	989.1	1353.4
20°	0.0	17.8	27.3	43.9	61.6	105.6	224.4	433.6	713.8	1046.6	1427.5
17.5°	0.0	18.0	27.5	44.7	62.7	109.7	238.2	460.3	752.3	1097.8	1493.4
15°	0.0	18.3	27.8	45.4	63.6	113.2	250.2	483.6	785.8	1142.5	1550.9
12.5°	0.0	18.5	27.9	45.9	64.4	116.2	260.4	503.4	814.4	1180.5	1599.9
10°	0.0	18.6	28.1	46.4	65.0	118.6	268.8	519.6	837.8	1211.7	1640.1
7.5°	0.0	18.7	28.2	46.8	65.5	120.5	275.4	532.3	856.1	1236.1	1671.6
5°	0.0	18.8	28.3	47.1	65.9	121.9	280.0	541.4	869.2	1253.6	1694.1
2.5°	0.0	18.9	28.4	47.2	66.1	122.7	282.9	546.9	877.1	1264.1	1707.7
0°	0.0	18.9	28.4	47.3	66.2	123.0	283.8	548.7	879.7	1267.6	1712.2
-2.5°	0.0	18.9	28.4	47.2	66.1	122.7	282.9	546.9	877.1	1264.1	1707.7
-5°	0.0	18.8	28.3	47.1	65.9	121.9	280.0	541.4	869.2	1253.6	1694.1
-7.5°	0.0	18.7	28.2	46.8	65.5	120.5	275.4	532.3	856.1	1236.1	1671.6
-10°	0.0	18.6	28.1	46.4	65.0	118.6	268.8	519.6	837.8	1211.7	1640.1
-12.5°	0.0	18.5	27.9	45.9	64.4	116.2	260.4	503.4	814.4	1180.5	1599.9
-15°	0.0	18.3	27.8	45.4	63.6	113.2	250.2	483.6	785.8	1142.5	1550.9
-17.5°	0.0	18.0	27.5	44.7	62.7	109.7	238.2	460.3	752.3	1097.8	1493.4
-20°	0.0	17.8	27.3	43.9	61.6	105.6	224.4	433.6	713.8	1046.6	1427.5



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**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	17.5	27.0	43.0	60.4	101.1	208.8	403.5	670.5	989.1	1353.4
-25°	0.0	17.1	26.6	42.0	59.1	96.0	191.6	370.2	622.5	925.2	1271.3
-27.5°	0.0	16.8	26.2	40.9	57.6	90.5	172.7	333.6	569.9	858.9	1192.5
-30°	0.0	16.4	25.8	39.7	56.0	84.5	152.1	293.9	520.0	794.2	1107.6
-32.5°	0.0	15.9	25.4	38.4	54.3	78.0	130.0	264.0	470.9	724.7	1016.4
-35°	0.0	15.5	25.0	37.0	52.4	71.0	117.1	236.2	418.4	650.5	919.2
-37.5°	0.0	15.0	24.5	35.5	50.5	65.3	108.2	206.7	362.7	571.8	825.4
-40°	0.0	14.5	23.9	34.0	48.4	62.8	98.8	175.6	303.8	500.7	732.7
-42.5°	0.0	13.9	23.4	32.3	46.2	60.0	88.9	142.9	258.4	430.9	635.4
-45°	0.0	13.4	22.8	30.6	43.9	57.2	78.6	117.9	219.2	358.0	536.8
-47.5°	0.0	12.8	22.2	28.8	41.5	54.2	67.8	105.3	178.3	282.7	452.2
-50°	0.0	12.1	21.6	27.7	39.0	51.1	63.0	92.2	135.9	234.9	364.6
-52.5°	0.0	11.5	21.0	26.7	36.5	47.8	59.1	78.6	112.0	185.5	277.9
-55°	0.0	10.8	20.3	25.7	33.8	44.5	55.1	65.7	96.0	134.5	221.3
-57.5°	0.0	10.2	19.6	24.7	31.1	41.1	51.0	60.9	79.6	108.6	163.2
-60°	0.0	9.4	18.9	23.6	28.3	37.6	46.8	56.0	65.0	89.6	116.2
-62.5°	0.0	8.7	17.4	22.5	26.9	34.0	42.5	50.9	59.3	70.2	94.7
-65°	0.0	8.0	16.0	21.4	25.4	30.3	38.1	45.8	53.4	61.0	72.8
-67.5°	0.0	7.2	14.4	20.3	23.9	27.5	33.6	40.6	47.5	54.3	61.0
-70°	0.0	6.5	12.9	19.1	22.3	25.5	29.0	35.2	41.4	47.5	53.4
-72.5°	0.0	5.7	11.4	17.0	20.8	23.6	26.4	29.8	35.2	40.6	45.8
-75°	0.0	4.9	9.8	14.6	19.2	21.6	24.0	26.4	29.0	33.6	38.1
-77.5°	0.0	4.1	8.2	12.2	16.3	19.6	21.6	23.6	25.5	27.5	30.3
-80°	0.0	3.3	6.6	9.8	13.1	16.3	19.2	20.8	22.3	23.9	25.4
-82.5°	0.0	2.5	4.9	7.4	9.8	12.2	14.6	17.0	19.1	20.3	21.4
-85°	0.0	1.6	3.3	4.9	6.6	8.2	9.8	11.4	12.9	14.4	16.0
-87.5°	0.0	0.8	1.6	2.5	3.3	4.1	4.9	5.7	6.5	7.2	8.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**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°	8.7	9.4	10.2	10.8	11.5	12.1	12.8	13.4	13.9	14.5	15.0
85°	17.4	18.9	19.6	20.3	21.0	21.6	22.2	22.8	23.4	23.9	24.5
82.5°	22.5	23.6	24.7	25.7	26.7	27.7	28.8	30.6	32.3	34.0	35.5
80°	26.9	28.3	31.1	33.8	36.5	39.0	41.5	43.9	46.2	48.4	50.5
77.5°	34.0	37.6	41.1	44.5	47.8	51.1	54.2	57.2	60.0	62.8	65.3
75°	42.5	46.8	51.0	55.1	59.1	63.0	67.8	78.6	88.9	98.8	108.2
72.5°	50.9	56.0	60.9	65.7	78.6	92.2	105.3	117.9	142.9	175.6	206.7
70°	59.3	65.0	79.6	96.0	112.0	135.9	178.3	219.2	258.4	303.8	362.7
67.5°	70.2	89.6	108.6	134.5	185.5	234.9	282.7	358.0	430.9	500.7	571.8
65°	94.7	116.2	163.2	221.3	277.9	364.6	452.2	536.8	635.4	732.7	825.4
62.5°	118.7	177.6	243.0	321.7	424.3	523.9	638.3	754.8	866.9	990.6	1110.8
60°	177.6	250.2	345.7	460.3	577.9	713.8	845.6	989.1	1132.9	1271.3	1422.4
57.5°	243.0	345.7	472.4	608.2	759.5	911.4	1079.0	1241.1	1416.5	1588.6	1756.8
55°	321.7	460.3	608.2	774.8	947.4	1133.3	1320.8	1521.5	1715.5	1917.6	2111.3
52.5°	424.3	577.9	759.5	947.4	1151.5	1362.9	1585.0	1808.0	2034.1	2254.1	2471.2
50°	523.9	713.8	911.4	1133.3	1362.9	1606.3	1854.7	2104.7	2352.8	2595.5	2826.1
47.5°	638.3	845.6	1079.0	1320.8	1585.0	1854.7	2128.3	2402.4	2670.8	2925.6	3170.3
45°	754.8	989.1	1241.1	1521.5	1808.0	2104.7	2402.4	2696.0	2975.7	3228.5	3409.2
42.5°	866.9	1132.9	1416.5	1715.5	2034.1	2352.8	2670.8	2975.7	3246.1	3445.1	3625.1
40°	990.6	1271.3	1588.6	1917.6	2254.1	2595.5	2925.6	3228.5	3445.1	3641.3	3822.3
37.5°	1110.8	1422.4	1756.8	2111.3	2471.2	2826.1	3170.3	3409.2	3625.1	3822.3	4173.2
35°	1224.9	1566.1	1926.8	2299.8	2678.3	3044.7	3337.9	3576.5	3789.2	4141.4	5079.5
32.5°	1342.2	1701.8	2087.7	2481.5	2871.5	3232.6	3492.4	3723.5	4046.6	4713.8	6954.3
30°	1458.1	1839.3	2240.9	2652.7	3053.4	3368.5	3626.4	3890.5	4326.1	6394.9	8459.3
27.5°	1566.1	1968.4	2387.7	2810.5	3212.7	3496.0	3748.5	4136.4	5475.4	7888.1	9735.2
25°	1665.8	2087.7	2523.7	2956.0	3322.2	3604.9	3889.2	4365.9	6864.9	9008.2	10275.2
22.5°	1760.8	2197.1	2648.3	3089.5	3422.7	3701.8	4085.6	5408.4	8013.2	10013.3	10604.8
20°	1850.2	2299.8	2759.8	3203.5	3514.0	3789.9	4264.5	6497.7	8896.8	10294.5	10875.8
17.5°	1929.9	2391.2	2858.5	3278.3	3588.0	3901.4	4545.6	7475.9	9691.9	10548.2	11106.0
15°	1999.4	2471.2	2944.8	3343.8	3651.6	4031.1	5339.6	8153.1	10115.4	10762.3	11307.9
12.5°	2058.6	2539.3	3018.5	3399.7	3705.9	4142.1	6019.8	8708.6	10293.5	10924.7	11417.0
10°	2107.3	2595.5	3079.1	3445.8	3750.7	4233.8	6582.4	9168.5	10441.1	11059.6	11507.9
7.5°	2145.4	2639.3	3126.6	3481.8	3785.8	4305.6	7023.7	9529.8	10557.3	11165.9	11579.6
5°	2172.7	2670.8	3160.6	3507.7	3811.0	4357.2	7341.0	9789.7	10640.9	11242.5	11631.4
2.5°	2189.1	2689.7	3181.1	3523.3	3826.1	4388.3	7532.2	9946.5	10691.4	11288.8	11662.7
0°	2194.6	2696.0	3187.9	3528.5	3831.2	4398.7	7596.1	9998.9	10708.3	11304.3	11673.2
-2.5°	2189.1	2689.7	3181.1	3523.3	3826.1	4388.3	7532.2	9946.5	10691.4	11288.8	11662.7
-5°	2172.7	2670.8	3160.6	3507.7	3811.0	4357.2	7341.0	9789.7	10640.9	11242.5	11631.4
-7.5°	2145.4	2639.3	3126.6	3481.8	3785.8	4305.6	7023.7	9529.8	10557.3	11165.9	11579.6
-10°	2107.3	2595.5	3079.1	3445.8	3750.7	4233.8	6582.4	9168.5	10441.1	11059.6	11507.9
-12.5°	2058.6	2539.3	3018.5	3399.7	3705.9	4142.1	6019.8	8708.6	10293.5	10924.7	11417.0
-15°	1999.4	2471.2	2944.8	3343.8	3651.6	4031.1	5339.6	8153.1	10115.4	10762.3	11307.9
-17.5°	1929.9	2391.2	2858.5	3278.3	3588.0	3901.4	4545.6	7475.9	9691.9	10548.2	11106.0
-20°	1850.2	2299.8	2759.8	3203.5	3514.0	3789.9	4264.5	6497.7	8896.8	10294.5	10875.8



REPORT NUMBER: P699922 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-1S-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1760.8	2197.1	2648.3	3089.5	3422.7	3701.8	4085.6	5408.4	8013.2	10013.3	10604.8
-25°	1665.8	2087.7	2523.7	2956.0	3322.2	3604.9	3889.2	4365.9	6864.9	9008.2	10275.2
-27.5°	1566.1	1968.4	2387.7	2810.5	3212.7	3496.0	3748.5	4136.4	5475.4	7888.1	9735.2
-30°	1458.1	1839.3	2240.9	2652.7	3053.4	3368.5	3626.4	3890.5	4326.1	6394.9	8459.3
-32.5°	1342.2	1701.8	2087.7	2481.5	2871.5	3232.6	3492.4	3723.5	4046.6	4713.8	6954.3
-35°	1224.9	1566.1	1926.8	2299.8	2678.3	3044.7	3337.9	3576.5	3789.2	4141.4	5079.5
-37.5°	1110.8	1422.4	1756.8	2111.3	2471.2	2826.1	3170.3	3409.2	3625.1	3822.3	4173.2
-40°	990.6	1271.3	1588.6	1917.6	2254.1	2595.5	2925.6	3228.5	3445.1	3641.3	3822.3
-42.5°	866.9	1132.9	1416.5	1715.5	2034.1	2352.8	2670.8	2975.7	3246.1	3445.1	3625.1
-45°	754.8	989.1	1241.1	1521.5	1808.0	2104.7	2402.4	2696.0	2975.7	3228.5	3409.2
-47.5°	638.3	845.6	1079.0	1320.8	1585.0	1854.7	2128.3	2402.4	2670.8	2925.6	3170.3
-50°	523.9	713.8	911.4	1133.3	1362.9	1606.3	1854.7	2104.7	2352.8	2595.5	2826.1
-52.5°	424.3	577.9	759.5	947.4	1151.5	1362.9	1585.0	1808.0	2034.1	2254.1	2471.2
-55°	321.7	460.3	608.2	774.8	947.4	1133.3	1320.8	1521.5	1715.5	1917.6	2111.3
-57.5°	243.0	345.7	472.4	608.2	759.5	911.4	1079.0	1241.1	1416.5	1588.6	1756.8
-60°	177.6	250.2	345.7	460.3	577.9	713.8	845.6	989.1	1132.9	1271.3	1422.4
-62.5°	118.7	177.6	243.0	321.7	424.3	523.9	638.3	754.8	866.9	990.6	1110.8
-65°	94.7	116.2	163.2	221.3	277.9	364.6	452.2	536.8	635.4	732.7	825.4
-67.5°	70.2	89.6	108.6	134.5	185.5	234.9	282.7	358.0	430.9	500.7	571.8
-70°	59.3	65.0	79.6	96.0	112.0	135.9	178.3	219.2	258.4	303.8	362.7
-72.5°	50.9	56.0	60.9	65.7	78.6	92.2	105.3	117.9	142.9	175.6	206.7
-75°	42.5	46.8	51.0	55.1	59.1	63.0	67.8	78.6	88.9	98.8	108.2
-77.5°	34.0	37.6	41.1	44.5	47.8	51.1	54.2	57.2	60.0	62.8	65.3
-80°	26.9	28.3	31.1	33.8	36.5	39.0	41.5	43.9	46.2	48.4	50.5
-82.5°	22.5	23.6	24.7	25.7	26.7	27.7	28.8	30.6	32.3	34.0	35.5
-85°	17.4	18.9	19.6	20.3	21.0	21.6	22.2	22.8	23.4	23.9	24.5
-87.5°	8.7	9.4	10.2	10.8	11.5	12.1	12.8	13.4	13.9	14.5	15.0
-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: P699922 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**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°	15.5	15.9	16.4	16.8	17.1	17.5	17.8	18.0	18.3	18.5	18.6
85°	25.0	25.4	25.8	26.2	26.6	27.0	27.3	27.5	27.8	27.9	28.1
82.5°	37.0	38.4	39.7	40.9	42.0	43.0	43.9	44.7	45.4	45.9	46.4
80°	52.4	54.3	56.0	57.6	59.1	60.4	61.6	62.7	63.6	64.4	65.0
77.5°	71.0	78.0	84.5	90.5	96.0	101.1	105.6	109.7	113.2	116.2	118.6
75°	117.1	130.0	152.1	172.7	191.6	208.8	224.4	238.2	250.2	260.4	268.8
72.5°	236.2	264.0	293.9	333.6	370.2	403.5	433.6	460.3	483.6	503.4	519.6
70°	418.4	470.9	520.0	569.9	622.5	670.5	713.8	752.3	785.8	814.4	837.8
67.5°	650.5	724.7	794.2	858.9	925.2	989.1	1046.6	1097.8	1142.5	1180.5	1211.7
65°	919.2	1016.4	1107.6	1192.5	1271.3	1353.4	1427.5	1493.4	1550.9	1599.9	1640.1
62.5°	1224.9	1342.2	1458.1	1566.1	1665.8	1760.8	1850.2	1929.9	1999.4	2058.6	2107.3
60°	1566.1	1701.8	1839.3	1968.4	2087.7	2197.1	2299.8	2391.2	2471.2	2539.3	2595.5
57.5°	1926.8	2087.7	2240.9	2387.7	2523.7	2648.3	2759.8	2858.5	2944.8	3018.5	3079.1
55°	2299.8	2481.5	2652.7	2810.5	2956.0	3089.5	3203.5	3278.3	3343.8	3399.7	3445.8
52.5°	2678.3	2871.5	3053.4	3212.7	3322.2	3422.7	3514.0	3588.0	3651.6	3705.9	3750.7
50°	3044.7	3232.6	3368.5	3496.0	3604.9	3701.8	3789.9	3901.4	4031.1	4142.1	4233.8
47.5°	3337.9	3492.4	3626.4	3748.5	3889.2	4085.6	4264.5	4545.6	5339.6	6019.8	6582.4
45°	3576.5	3723.5	3890.5	4136.4	4365.9	5408.4	6497.7	7475.9	8153.1	8708.6	9168.5
42.5°	3789.2	4046.6	4326.1	5475.4	6864.9	8013.2	8896.8	9691.9	10115.4	10293.5	10441.1
40°	4141.4	4713.8	6394.9	7888.1	9008.2	10013.3	10294.5	10548.2	10762.3	10924.7	11059.6
37.5°	5079.5	6954.3	8459.3	9735.2	10275.2	10604.8	10875.8	11106.0	11307.9	11417.0	11507.9
35°	7142.2	8748.2	10051.9	10453.4	10812.4	11109.5	11353.2	11507.1	11643.9	11705.3	11740.8
32.5°	8748.2	10095.8	10543.7	10929.0	11268.8	11479.4	11661.8	11728.8	11782.0	11815.4	11832.0
30°	10051.9	10543.7	10968.2	11332.4	11556.6	11707.1	11777.5	11821.2	11845.9	11911.8	12087.4
27.5°	10453.4	10929.0	11332.4	11582.7	11726.4	11806.5	11838.9	11922.7	12182.3	12410.1	13018.3
25°	10812.4	11268.8	11556.6	11726.4	11810.8	11847.8	12058.1	12369.4	13173.8	13963.7	15561.9
22.5°	11109.5	11479.4	11707.1	11806.5	11847.8	12103.9	12582.3	13648.8	15525.9	18052.1	22568.5
20°	11353.2	11661.8	11777.5	11838.9	12058.1	12582.3	13809.9	16515.0	20513.0	29933.7	39700.0
17.5°	11507.1	11728.8	11821.2	11922.7	12369.4	13648.8	16515.0	22313.7	33752.2	51928.9	70242.5
15°	11643.9	11782.0	11845.9	12182.3	13173.8	15525.9	20513.0	33752.2	56123.4	84082.6	117159.7
12.5°	11705.3	11815.4	11911.8	12410.1	13963.7	18052.1	29933.7	51928.9	84082.6	125193.5	183430.8
10°	11740.8	11832.0	12087.4	13018.3	15561.9	22568.5	39700.0	70242.5	117159.7	183430.8	264453.1
7.5°	11768.9	11845.1	12227.1	13506.1	17135.9	28506.9	53121.0	93991.3	155408.5	241614.9	365273.7
5°	11789.3	11854.7	12328.7	13862.1	18289.6	32884.9	63092.0	112322.3	189393.5	303059.4	459365.9
2.5°	11801.6	11860.5	12390.4	14078.9	18994.4	35570.8	69244.7	123726.5	210791.4	347263.0	523069.3
0°	11805.7	11862.4	12411.1	14151.7	19231.5	36476.4	71325.8	127601.3	218111.4	363723.9	545472.3
-2.5°	11801.6	11860.5	12390.4	14078.9	18994.4	35570.8	69244.7	123726.5	210791.4	347263.0	523069.3
-5°	11789.3	11854.7	12328.7	13862.1	18289.6	32884.9	63092.0	112322.3	189393.5	303059.4	459365.9
-7.5°	11768.9	11845.1	12227.1	13506.1	17135.9	28506.9	53121.0	93991.3	155408.5	241614.9	365273.7
-10°	11740.8	11832.0	12087.4	13018.3	15561.9	22568.5	39700.0	70242.5	117159.7	183430.8	264453.1
-12.5°	11705.3	11815.4	11911.8	12410.1	13963.7	18052.1	29933.7	51928.9	84082.6	125193.5	183430.8
-15°	11643.9	11782.0	11845.9	12182.3	13173.8	15525.9	20513.0	33752.2	56123.4	84082.6	117159.7
-17.5°	11507.1	11728.8	11821.2	11922.7	12369.4	13648.8	16515.0	22313.7	33752.2	51928.9	70242.5
-20°	11353.2	11661.8	11777.5	11838.9	12058.1	12582.3	13809.9	16515.0	20513.0	29933.7	39700.0



REPORT NUMBER: P699922 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-1S-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	11109.5	11479.4	11707.1	11806.5	11847.8	12103.9	12582.3	13648.8	15525.9	18052.1	22568.5
-25°	10812.4	11268.8	11556.6	11726.4	11810.8	11847.8	12058.1	12369.4	13173.8	13963.7	15561.9
-27.5°	10453.4	10929.0	11332.4	11582.7	11726.4	11806.5	11838.9	11922.7	12182.3	12410.1	13018.3
-30°	10051.9	10543.7	10968.2	11332.4	11556.6	11707.1	11777.5	11821.2	11845.9	11911.8	12087.4
-32.5°	8748.2	10095.8	10543.7	10929.0	11268.8	11479.4	11661.8	11728.8	11782.0	11815.4	11832.0
-35°	7142.2	8748.2	10051.9	10453.4	10812.4	11109.5	11353.2	11507.1	11643.9	11705.3	11740.8
-37.5°	5079.5	6954.3	8459.3	9735.2	10275.2	10604.8	10875.8	11106.0	11307.9	11417.0	11507.9
-40°	4141.4	4713.8	6394.9	7888.1	9008.2	10013.3	10294.5	10548.2	10762.3	10924.7	11059.6
-42.5°	3789.2	4046.6	4326.1	5475.4	6864.9	8013.2	8896.8	9691.9	10115.4	10293.5	10441.1
-45°	3576.5	3723.5	3890.5	4136.4	4365.9	5408.4	6497.7	7475.9	8153.1	8708.6	9168.5
-47.5°	3337.9	3492.4	3626.4	3748.5	3889.2	4085.6	4264.5	4545.6	5339.6	6019.8	6582.4
-50°	3044.7	3232.6	3368.5	3496.0	3604.9	3701.8	3789.9	3901.4	4031.1	4142.1	4233.8
-52.5°	2678.3	2871.5	3053.4	3212.7	3322.2	3422.7	3514.0	3588.0	3651.6	3705.9	3750.7
-55°	2299.8	2481.5	2652.7	2810.5	2956.0	3089.5	3203.5	3278.3	3343.8	3399.7	3445.8
-57.5°	1926.8	2087.7	2240.9	2387.7	2523.7	2648.3	2759.8	2858.5	2944.8	3018.5	3079.1
-60°	1566.1	1701.8	1839.3	1968.4	2087.7	2197.1	2299.8	2391.2	2471.2	2539.3	2595.5
-62.5°	1224.9	1342.2	1458.1	1566.1	1665.8	1760.8	1850.2	1929.9	1999.4	2058.6	2107.3
-65°	919.2	1016.4	1107.6	1192.5	1271.3	1353.4	1427.5	1493.4	1550.9	1599.9	1640.1
-67.5°	650.5	724.7	794.2	858.9	925.2	989.1	1046.6	1097.8	1142.5	1180.5	1211.7
-70°	418.4	470.9	520.0	569.9	622.5	670.5	713.8	752.3	785.8	814.4	837.8
-72.5°	236.2	264.0	293.9	333.6	370.2	403.5	433.6	460.3	483.6	503.4	519.6
-75°	117.1	130.0	152.1	172.7	191.6	208.8	224.4	238.2	250.2	260.4	268.8
-77.5°	71.0	78.0	84.5	90.5	96.0	101.1	105.6	109.7	113.2	116.2	118.6
-80°	52.4	54.3	56.0	57.6	59.1	60.4	61.6	62.7	63.6	64.4	65.0
-82.5°	37.0	38.4	39.7	40.9	42.0	43.0	43.9	44.7	45.4	45.9	46.4
-85°	25.0	25.4	25.8	26.2	26.6	27.0	27.3	27.5	27.8	27.9	28.1
-87.5°	15.5	15.9	16.4	16.8	17.1	17.5	17.8	18.0	18.3	18.5	18.6
-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: P699922 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-1S-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°	18.7	18.8	18.9	18.9	18.9	18.8	18.7	18.6	18.5	18.3	18.0
85°	28.2	28.3	28.4	28.4	28.4	28.3	28.2	28.1	27.9	27.8	27.5
82.5°	46.8	47.1	47.2	47.3	47.2	47.1	46.8	46.4	45.9	45.4	44.7
80°	65.5	65.9	66.1	66.2	66.1	65.9	65.5	65.0	64.4	63.6	62.7
77.5°	120.5	121.9	122.7	123.0	122.7	121.9	120.5	118.6	116.2	113.2	109.7
75°	275.4	280.0	282.9	283.8	282.9	280.0	275.4	268.8	260.4	250.2	238.2
72.5°	532.3	541.4	546.9	548.7	546.9	541.4	532.3	519.6	503.4	483.6	460.3
70°	856.1	869.2	877.1	879.7	877.1	869.2	856.1	837.8	814.4	785.8	752.3
67.5°	1236.1	1253.6	1264.1	1267.6	1264.1	1253.6	1236.1	1211.7	1180.5	1142.5	1097.8
65°	1671.6	1694.1	1707.7	1712.2	1707.7	1694.1	1671.6	1640.1	1599.9	1550.9	1493.4
62.5°	2145.4	2172.7	2189.1	2194.6	2189.1	2172.7	2145.4	2107.3	2058.6	1999.4	1929.9
60°	2639.3	2670.8	2689.7	2696.0	2689.7	2670.8	2639.3	2595.5	2539.3	2471.2	2391.2
57.5°	3126.6	3160.6	3181.1	3187.9	3181.1	3160.6	3126.6	3079.1	3018.5	2944.8	2858.5
55°	3481.8	3507.7	3523.3	3528.5	3523.3	3507.7	3481.8	3445.8	3399.7	3343.8	3278.3
52.5°	3785.8	3811.0	3826.1	3831.2	3826.1	3811.0	3785.8	3750.7	3705.9	3651.6	3588.0
50°	4305.6	4357.2	4388.3	4398.7	4388.3	4357.2	4305.6	4233.8	4142.1	4031.1	3901.4
47.5°	7023.7	7341.0	7532.2	7596.1	7532.2	7341.0	7023.7	6582.4	6019.8	5339.6	4545.6
45°	9529.8	9789.7	9946.5	9998.9	9946.5	9789.7	9529.8	9168.5	8708.6	8153.1	7475.9
42.5°	10557.3	10640.9	10691.4	10708.3	10691.4	10640.9	10557.3	10441.1	10293.5	10115.4	9691.9
40°	11165.9	11242.5	11288.8	11304.3	11288.8	11242.5	11165.9	11059.6	10924.7	10762.3	10548.2
37.5°	11579.6	11631.4	11662.7	11673.2	11662.7	11631.4	11579.6	11507.9	11417.0	11307.9	11106.0
35°	11768.9	11789.3	11801.6	11805.7	11801.6	11789.3	11768.9	11740.8	11705.3	11643.9	11507.1
32.5°	11845.1	11854.7	11860.5	11862.4	11860.5	11854.7	11845.1	11832.0	11815.4	11782.0	11728.8
30°	12227.1	12328.7	12390.4	12411.1	12390.4	12328.7	12227.1	12087.4	11911.8	11845.9	11821.2
27.5°	13506.1	13862.1	14078.9	14151.7	14078.9	13862.1	13506.1	13018.3	12410.1	12182.3	11922.7
25°	17135.9	18289.6	18994.4	19231.5	18994.4	18289.6	17135.9	15561.9	13963.7	13173.8	12369.4
22.5°	28506.9	32884.9	35570.8	36476.4	35570.8	32884.9	28506.9	22568.5	18052.1	15525.9	13648.8
20°	53121.0	63092.0	69244.7	71325.8	69244.7	63092.0	53121.0	39700.0	29933.7	20513.0	16515.0
17.5°	93991.3	112322.3	123726.5	127601.3	123726.5	112322.3	93991.3	70242.5	51928.9	33752.2	22313.7
15°	155408.5	189393.5	210791.4	218111.4	210791.4	189393.5	155408.5	117159.7	84082.6	56123.4	33752.2
12.5°	241614.9	303059.4	347263.0	363723.9	347263.0	303059.4	241614.9	183430.8	125193.5	84082.6	51928.9
10°	365273.7	459365.9	523069.3	545472.3	523069.3	459365.9	365273.7	264453.1	183430.8	117159.7	70242.5
7.5°	501985.9	620709.4	710406.8	744456.3	710406.8	620709.4	501985.9	365273.7	241614.9	155408.5	93991.3
5°	620709.4	781037.0	890309.9	929657.5	890309.9	781037.0	620709.4	459365.9	303059.4	189393.5	112322.3
2.5°	710406.8	890309.9	#####	#####	#####	890309.9	710406.8	523069.3	347263.0	210791.4	123726.5
0°	744456.3	929657.5	#####	#####	#####	929657.5	744456.3	545472.3	363723.9	218111.4	127601.3
-2.5°	710406.8	890309.9	#####	#####	#####	890309.9	710406.8	523069.3	347263.0	210791.4	123726.5
-5°	620709.4	781037.0	890309.9	929657.5	890309.9	781037.0	620709.4	459365.9	303059.4	189393.5	112322.3
-7.5°	501985.9	620709.4	710406.8	744456.3	710406.8	620709.4	501985.9	365273.7	241614.9	155408.5	93991.3
-10°	365273.7	459365.9	523069.3	545472.3	523069.3	459365.9	365273.7	264453.1	183430.8	117159.7	70242.5
-12.5°	241614.9	303059.4	347263.0	363723.9	347263.0	303059.4	241614.9	183430.8	125193.5	84082.6	51928.9
-15°	155408.5	189393.5	210791.4	218111.4	210791.4	189393.5	155408.5	117159.7	84082.6	56123.4	33752.2
-17.5°	93991.3	112322.3	123726.5	127601.3	123726.5	112322.3	93991.3	70242.5	51928.9	33752.2	22313.7
-20°	53121.0	63092.0	69244.7	71325.8	69244.7	63092.0	53121.0	39700.0	29933.7	20513.0	16515.0



REPORT NUMBER: P699922 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-1S-S

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	28506.9	32884.9	35570.8	36476.4	35570.8	32884.9	28506.9	22568.5	18052.1	15525.9	13648.8
-25°	17135.9	18289.6	18994.4	19231.5	18994.4	18289.6	17135.9	15561.9	13963.7	13173.8	12369.4
-27.5°	13506.1	13862.1	14078.9	14151.7	14078.9	13862.1	13506.1	13018.3	12410.1	12182.3	11922.7
-30°	12227.1	12328.7	12390.4	12411.1	12390.4	12328.7	12227.1	12087.4	11911.8	11845.9	11821.2
-32.5°	11845.1	11854.7	11860.5	11862.4	11860.5	11854.7	11845.1	11832.0	11815.4	11782.0	11728.8
-35°	11768.9	11789.3	11801.6	11805.7	11801.6	11789.3	11768.9	11740.8	11705.3	11643.9	11507.1
-37.5°	11579.6	11631.4	11662.7	11673.2	11662.7	11631.4	11579.6	11507.9	11417.0	11307.9	11106.0
-40°	11165.9	11242.5	11288.8	11304.3	11288.8	11242.5	11165.9	11059.6	10924.7	10762.3	10548.2
-42.5°	10557.3	10640.9	10691.4	10708.3	10691.4	10640.9	10557.3	10441.1	10293.5	10115.4	9691.9
-45°	9529.8	9789.7	9946.5	9998.9	9946.5	9789.7	9529.8	9168.5	8708.6	8153.1	7475.9
-47.5°	7023.7	7341.0	7532.2	7596.1	7532.2	7341.0	7023.7	6582.4	6019.8	5339.6	4545.6
-50°	4305.6	4357.2	4388.3	4398.7	4388.3	4357.2	4305.6	4233.8	4142.1	4031.1	3901.4
-52.5°	3785.8	3811.0	3826.1	3831.2	3826.1	3811.0	3785.8	3750.7	3705.9	3651.6	3588.0
-55°	3481.8	3507.7	3523.3	3528.5	3523.3	3507.7	3481.8	3445.8	3399.7	3343.8	3278.3
-57.5°	3126.6	3160.6	3181.1	3187.9	3181.1	3160.6	3126.6	3079.1	3018.5	2944.8	2858.5
-60°	2639.3	2670.8	2689.7	2696.0	2689.7	2670.8	2639.3	2595.5	2539.3	2471.2	2391.2
-62.5°	2145.4	2172.7	2189.1	2194.6	2189.1	2172.7	2145.4	2107.3	2058.6	1999.4	1929.9
-65°	1671.6	1694.1	1707.7	1712.2	1707.7	1694.1	1671.6	1640.1	1599.9	1550.9	1493.4
-67.5°	1236.1	1253.6	1264.1	1267.6	1264.1	1253.6	1236.1	1211.7	1180.5	1142.5	1097.8
-70°	856.1	869.2	877.1	879.7	877.1	869.2	856.1	837.8	814.4	785.8	752.3
-72.5°	532.3	541.4	546.9	548.7	546.9	541.4	532.3	519.6	503.4	483.6	460.3
-75°	275.4	280.0	282.9	283.8	282.9	280.0	275.4	268.8	260.4	250.2	238.2
-77.5°	120.5	121.9	122.7	123.0	122.7	121.9	120.5	118.6	116.2	113.2	109.7
-80°	65.5	65.9	66.1	66.2	66.1	65.9	65.5	65.0	64.4	63.6	62.7
-82.5°	46.8	47.1	47.2	47.3	47.2	47.1	46.8	46.4	45.9	45.4	44.7
-85°	28.2	28.3	28.4	28.4	28.4	28.3	28.2	28.1	27.9	27.8	27.5
-87.5°	18.7	18.8	18.9	18.9	18.9	18.8	18.7	18.6	18.5	18.3	18.0
-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: P699922 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**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°	17.8	17.5	17.1	16.8	16.4	15.9	15.5	15.0	14.5	13.9	13.4
85°	27.3	27.0	26.6	26.2	25.8	25.4	25.0	24.5	23.9	23.4	22.8
82.5°	43.9	43.0	42.0	40.9	39.7	38.4	37.0	35.5	34.0	32.3	30.6
80°	61.6	60.4	59.1	57.6	56.0	54.3	52.4	50.5	48.4	46.2	43.9
77.5°	105.6	101.1	96.0	90.5	84.5	78.0	71.0	65.3	62.8	60.0	57.2
75°	224.4	208.8	191.6	172.7	152.1	130.0	117.1	108.2	98.8	88.9	78.6
72.5°	433.6	403.5	370.2	333.6	293.9	264.0	236.2	206.7	175.6	142.9	117.9
70°	713.8	670.5	622.5	569.9	520.0	470.9	418.4	362.7	303.8	258.4	219.2
67.5°	1046.6	989.1	925.2	858.9	794.2	724.7	650.5	571.8	500.7	430.9	358.0
65°	1427.5	1353.4	1271.3	1192.5	1107.6	1016.4	919.2	825.4	732.7	635.4	536.8
62.5°	1850.2	1760.8	1665.8	1566.1	1458.1	1342.2	1224.9	1110.8	990.6	866.9	754.8
60°	2299.8	2197.1	2087.7	1968.4	1839.3	1701.8	1566.1	1422.4	1271.3	1132.9	989.1
57.5°	2759.8	2648.3	2523.7	2387.7	2240.9	2087.7	1926.8	1756.8	1588.6	1416.5	1241.1
55°	3203.5	3089.5	2956.0	2810.5	2652.7	2481.5	2299.8	2111.3	1917.6	1715.5	1521.5
52.5°	3514.0	3422.7	3322.2	3212.7	3053.4	2871.5	2678.3	2471.2	2254.1	2034.1	1808.0
50°	3789.9	3701.8	3604.9	3496.0	3368.5	3232.6	3044.7	2826.1	2595.5	2352.8	2104.7
47.5°	4264.5	4085.6	3889.2	3748.5	3626.4	3492.4	3337.9	3170.3	2925.6	2670.8	2402.4
45°	6497.7	5408.4	4365.9	4136.4	3890.5	3723.5	3576.5	3409.2	3228.5	2975.7	2696.0
42.5°	8896.8	8013.2	6864.9	5475.4	4326.1	4046.6	3789.2	3625.1	3445.1	3246.1	2975.7
40°	10294.5	10013.3	9008.2	7888.1	6394.9	4713.8	4141.4	3822.3	3641.3	3445.1	3228.5
37.5°	10875.8	10604.8	10275.2	9735.2	8459.3	6954.3	5079.5	4173.2	3822.3	3625.1	3409.2
35°	11353.2	11109.5	10812.4	10453.4	10051.9	8748.2	7142.2	5079.5	4141.4	3789.2	3576.5
32.5°	11661.8	11479.4	11268.8	10929.0	10543.7	10095.8	8748.2	6954.3	4713.8	4046.6	3723.5
30°	11777.5	11707.1	11556.6	11332.4	10968.2	10543.7	10051.9	8459.3	6394.9	4326.1	3890.5
27.5°	11838.9	11806.5	11726.4	11582.7	11332.4	10929.0	10453.4	9735.2	7888.1	5475.4	4136.4
25°	12058.1	11847.8	11810.8	11726.4	11556.6	11268.8	10812.4	10275.2	9008.2	6864.9	4365.9
22.5°	12582.3	12103.9	11847.8	11806.5	11707.1	11479.4	11109.5	10604.8	10013.3	8013.2	5408.4
20°	13809.9	12582.3	12058.1	11838.9	11777.5	11661.8	11353.2	10875.8	10294.5	8896.8	6497.7
17.5°	16515.0	13648.8	12369.4	11922.7	11821.2	11728.8	11507.1	11106.0	10548.2	9691.9	7475.9
15°	20513.0	15525.9	13173.8	12182.3	11845.9	11782.0	11643.9	11307.9	10762.3	10115.4	8153.1
12.5°	29933.7	18052.1	13963.7	12410.1	11911.8	11815.4	11705.3	11417.0	10924.7	10293.5	8708.6
10°	39700.0	22568.5	15561.9	13018.3	12087.4	11832.0	11740.8	11507.9	11059.6	10441.1	9168.5
7.5°	53121.0	28506.9	17135.9	13506.1	12227.1	11845.1	11768.9	11579.6	11165.9	10557.3	9529.8
5°	63092.0	32884.9	18289.6	13862.1	12328.7	11854.7	11789.3	11631.4	11242.5	10640.9	9789.7
2.5°	69244.7	35570.8	18994.4	14078.9	12390.4	11860.5	11801.6	11662.7	11288.8	10691.4	9946.5
0°	<b>71325.8</b>	<b>36476.4</b>	<b>19231.5</b>	<b>14151.7</b>	<b>12411.1</b>	<b>11862.4</b>	<b>11805.7</b>	<b>11673.2</b>	<b>11304.3</b>	<b>10708.3</b>	<b>9998.9</b>
-2.5°	69244.7	35570.8	18994.4	14078.9	12390.4	11860.5	11801.6	11662.7	11288.8	10691.4	9946.5
-5°	63092.0	32884.9	18289.6	13862.1	12328.7	11854.7	11789.3	11631.4	11242.5	10640.9	9789.7
-7.5°	53121.0	28506.9	17135.9	13506.1	12227.1	11845.1	11768.9	11579.6	11165.9	10557.3	9529.8
-10°	39700.0	22568.5	15561.9	13018.3	12087.4	11832.0	11740.8	11507.9	11059.6	10441.1	9168.5
-12.5°	29933.7	18052.1	13963.7	12410.1	11911.8	11815.4	11705.3	11417.0	10924.7	10293.5	8708.6
-15°	20513.0	15525.9	13173.8	12182.3	11845.9	11782.0	11643.9	11307.9	10762.3	10115.4	8153.1
-17.5°	16515.0	13648.8	12369.4	11922.7	11821.2	11728.8	11507.1	11106.0	10548.2	9691.9	7475.9
-20°	13809.9	12582.3	12058.1	11838.9	11777.5	11661.8	11353.2	10875.8	10294.5	8896.8	6497.7



REPORT NUMBER: P699922 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-1S-S

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	12582.3	12103.9	11847.8	11806.5	11707.1	11479.4	11109.5	10604.8	10013.3	8013.2	5408.4
-25°	12058.1	11847.8	11810.8	11726.4	11556.6	11268.8	10812.4	10275.2	9008.2	6864.9	4365.9
-27.5°	11838.9	11806.5	11726.4	11582.7	11332.4	10929.0	10453.4	9735.2	7888.1	5475.4	4136.4
-30°	11777.5	11707.1	11556.6	11332.4	10968.2	10543.7	10051.9	8459.3	6394.9	4326.1	3890.5
-32.5°	11661.8	11479.4	11268.8	10929.0	10543.7	10095.8	8748.2	6954.3	4713.8	4046.6	3723.5
-35°	11353.2	11109.5	10812.4	10453.4	10051.9	8748.2	7142.2	5079.5	4141.4	3789.2	3576.5
-37.5°	10875.8	10604.8	10275.2	9735.2	8459.3	6954.3	5079.5	4173.2	3822.3	3625.1	3409.2
-40°	10294.5	10013.3	9008.2	7888.1	6394.9	4713.8	4141.4	3822.3	3641.3	3445.1	3228.5
-42.5°	8896.8	8013.2	6864.9	5475.4	4326.1	4046.6	3789.2	3625.1	3445.1	3246.1	2975.7
-45°	6497.7	5408.4	4365.9	4136.4	3890.5	3723.5	3576.5	3409.2	3228.5	2975.7	2696.0
-47.5°	4264.5	4085.6	3889.2	3748.5	3626.4	3492.4	3337.9	3170.3	2925.6	2670.8	2402.4
-50°	3789.9	3701.8	3604.9	3496.0	3368.5	3232.6	3044.7	2826.1	2595.5	2352.8	2104.7
-52.5°	3514.0	3422.7	3322.2	3212.7	3053.4	2871.5	2678.3	2471.2	2254.1	2034.1	1808.0
-55°	3203.5	3089.5	2956.0	2810.5	2652.7	2481.5	2299.8	2111.3	1917.6	1715.5	1521.5
-57.5°	2759.8	2648.3	2523.7	2387.7	2240.9	2087.7	1926.8	1756.8	1588.6	1416.5	1241.1
-60°	2299.8	2197.1	2087.7	1968.4	1839.3	1701.8	1566.1	1422.4	1271.3	1132.9	989.1
-62.5°	1850.2	1760.8	1665.8	1566.1	1458.1	1342.2	1224.9	1110.8	990.6	866.9	754.8
-65°	1427.5	1353.4	1271.3	1192.5	1107.6	1016.4	919.2	825.4	732.7	635.4	536.8
-67.5°	1046.6	989.1	925.2	858.9	794.2	724.7	650.5	571.8	500.7	430.9	358.0
-70°	713.8	670.5	622.5	569.9	520.0	470.9	418.4	362.7	303.8	258.4	219.2
-72.5°	433.6	403.5	370.2	333.6	293.9	264.0	236.2	206.7	175.6	142.9	117.9
-75°	224.4	208.8	191.6	172.7	152.1	130.0	117.1	108.2	98.8	88.9	78.6
-77.5°	105.6	101.1	96.0	90.5	84.5	78.0	71.0	65.3	62.8	60.0	57.2
-80°	61.6	60.4	59.1	57.6	56.0	54.3	52.4	50.5	48.4	46.2	43.9
-82.5°	43.9	43.0	42.0	40.9	39.7	38.4	37.0	35.5	34.0	32.3	30.6
-85°	27.3	27.0	26.6	26.2	25.8	25.4	25.0	24.5	23.9	23.4	22.8
-87.5°	17.8	17.5	17.1	16.8	16.4	15.9	15.5	15.0	14.5	13.9	13.4
-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: P699922 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-1S-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°	12.8	12.1	11.5	10.8	10.2	9.4	8.7	8.0	7.2	6.5	5.7
85°	22.2	21.6	21.0	20.3	19.6	18.9	17.4	16.0	14.4	12.9	11.4
82.5°	28.8	27.7	26.7	25.7	24.7	23.6	22.5	21.4	20.3	19.1	17.0
80°	41.5	39.0	36.5	33.8	31.1	28.3	26.9	25.4	23.9	22.3	20.8
77.5°	54.2	51.1	47.8	44.5	41.1	37.6	34.0	30.3	27.5	25.5	23.6
75°	67.8	63.0	59.1	55.1	51.0	46.8	42.5	38.1	33.6	29.0	26.4
72.5°	105.3	92.2	78.6	65.7	60.9	56.0	50.9	45.8	40.6	35.2	29.8
70°	178.3	135.9	112.0	96.0	79.6	65.0	59.3	53.4	47.5	41.4	35.2
67.5°	282.7	234.9	185.5	134.5	108.6	89.6	70.2	61.0	54.3	47.5	40.6
65°	452.2	364.6	277.9	221.3	163.2	116.2	94.7	72.8	61.0	53.4	45.8
62.5°	638.3	523.9	424.3	321.7	243.0	177.6	118.7	94.7	70.2	59.3	50.9
60°	845.6	713.8	577.9	460.3	345.7	250.2	177.6	116.2	89.6	65.0	56.0
57.5°	1079.0	911.4	759.5	608.2	472.4	345.7	243.0	163.2	108.6	79.6	60.9
55°	1320.8	1133.3	947.4	774.8	608.2	460.3	321.7	221.3	134.5	96.0	65.7
52.5°	1585.0	1362.9	1151.5	947.4	759.5	577.9	424.3	277.9	185.5	112.0	78.6
50°	1854.7	1606.3	1362.9	1133.3	911.4	713.8	523.9	364.6	234.9	135.9	92.2
47.5°	2128.3	1854.7	1585.0	1320.8	1079.0	845.6	638.3	452.2	282.7	178.3	105.3
45°	2402.4	2104.7	1808.0	1521.5	1241.1	989.1	754.8	536.8	358.0	219.2	117.9
42.5°	2670.8	2352.8	2034.1	1715.5	1416.5	1132.9	866.9	635.4	430.9	258.4	142.9
40°	2925.6	2595.5	2254.1	1917.6	1588.6	1271.3	990.6	732.7	500.7	303.8	175.6
37.5°	3170.3	2826.1	2471.2	2111.3	1756.8	1422.4	1110.8	825.4	571.8	362.7	206.7
35°	3337.9	3044.7	2678.3	2299.8	1926.8	1566.1	1224.9	919.2	650.5	418.4	236.2
32.5°	3492.4	3232.6	2871.5	2481.5	2087.7	1701.8	1342.2	1016.4	724.7	470.9	264.0
30°	3626.4	3368.5	3053.4	2652.7	2240.9	1839.3	1458.1	1107.6	794.2	520.0	293.9
27.5°	3748.5	3496.0	3212.7	2810.5	2387.7	1968.4	1566.1	1192.5	858.9	569.9	333.6
25°	3889.2	3604.9	3322.2	2956.0	2523.7	2087.7	1665.8	1271.3	925.2	622.5	370.2
22.5°	4085.6	3701.8	3422.7	3089.5	2648.3	2197.1	1760.8	1353.4	989.1	670.5	403.5
20°	4264.5	3789.9	3514.0	3203.5	2759.8	2299.8	1850.2	1427.5	1046.6	713.8	433.6
17.5°	4545.6	3901.4	3588.0	3278.3	2858.5	2391.2	1929.9	1493.4	1097.8	752.3	460.3
15°	5339.6	4031.1	3651.6	3343.8	2944.8	2471.2	1999.4	1550.9	1142.5	785.8	483.6
12.5°	6019.8	4142.1	3705.9	3399.7	3018.5	2539.3	2058.6	1599.9	1180.5	814.4	503.4
10°	6582.4	4233.8	3750.7	3445.8	3079.1	2595.5	2107.3	1640.1	1211.7	837.8	519.6
7.5°	7023.7	4305.6	3785.8	3481.8	3126.6	2639.3	2145.4	1671.6	1236.1	856.1	532.3
5°	7341.0	4357.2	3811.0	3507.7	3160.6	2670.8	2172.7	1694.1	1253.6	869.2	541.4
2.5°	7532.2	4388.3	3826.1	3523.3	3181.1	2689.7	2189.1	1707.7	1264.1	877.1	546.9
0°	7596.1	4398.7	3831.2	3528.5	3187.9	2696.0	2194.6	1712.2	1267.6	879.7	548.7
-2.5°	7532.2	4388.3	3826.1	3523.3	3181.1	2689.7	2189.1	1707.7	1264.1	877.1	546.9
-5°	7341.0	4357.2	3811.0	3507.7	3160.6	2670.8	2172.7	1694.1	1253.6	869.2	541.4
-7.5°	7023.7	4305.6	3785.8	3481.8	3126.6	2639.3	2145.4	1671.6	1236.1	856.1	532.3
-10°	6582.4	4233.8	3750.7	3445.8	3079.1	2595.5	2107.3	1640.1	1211.7	837.8	519.6
-12.5°	6019.8	4142.1	3705.9	3399.7	3018.5	2539.3	2058.6	1599.9	1180.5	814.4	503.4
-15°	5339.6	4031.1	3651.6	3343.8	2944.8	2471.2	1999.4	1550.9	1142.5	785.8	483.6
-17.5°	4545.6	3901.4	3588.0	3278.3	2858.5	2391.2	1929.9	1493.4	1097.8	752.3	460.3
-20°	4264.5	3789.9	3514.0	3203.5	2759.8	2299.8	1850.2	1427.5	1046.6	713.8	433.6



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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	4085.6	3701.8	3422.7	3089.5	2648.3	2197.1	1760.8	1353.4	989.1	670.5	403.5
-25°	3889.2	3604.9	3322.2	2956.0	2523.7	2087.7	1665.8	1271.3	925.2	622.5	370.2
-27.5°	3748.5	3496.0	3212.7	2810.5	2387.7	1968.4	1566.1	1192.5	858.9	569.9	333.6
-30°	3626.4	3368.5	3053.4	2652.7	2240.9	1839.3	1458.1	1107.6	794.2	520.0	293.9
-32.5°	3492.4	3232.6	2871.5	2481.5	2087.7	1701.8	1342.2	1016.4	724.7	470.9	264.0
-35°	3337.9	3044.7	2678.3	2299.8	1926.8	1566.1	1224.9	919.2	650.5	418.4	236.2
-37.5°	3170.3	2826.1	2471.2	2111.3	1756.8	1422.4	1110.8	825.4	571.8	362.7	206.7
-40°	2925.6	2595.5	2254.1	1917.6	1588.6	1271.3	990.6	732.7	500.7	303.8	175.6
-42.5°	2670.8	2352.8	2034.1	1715.5	1416.5	1132.9	866.9	635.4	430.9	258.4	142.9
-45°	2402.4	2104.7	1808.0	1521.5	1241.1	989.1	754.8	536.8	358.0	219.2	117.9
-47.5°	2128.3	1854.7	1585.0	1320.8	1079.0	845.6	638.3	452.2	282.7	178.3	105.3
-50°	1854.7	1606.3	1362.9	1133.3	911.4	713.8	523.9	364.6	234.9	135.9	92.2
-52.5°	1585.0	1362.9	1151.5	947.4	759.5	577.9	424.3	277.9	185.5	112.0	78.6
-55°	1320.8	1133.3	947.4	774.8	608.2	460.3	321.7	221.3	134.5	96.0	65.7
-57.5°	1079.0	911.4	759.5	608.2	472.4	345.7	243.0	163.2	108.6	79.6	60.9
-60°	845.6	713.8	577.9	460.3	345.7	250.2	177.6	116.2	89.6	65.0	56.0
-62.5°	638.3	523.9	424.3	321.7	243.0	177.6	118.7	94.7	70.2	59.3	50.9
-65°	452.2	364.6	277.9	221.3	163.2	116.2	94.7	72.8	61.0	53.4	45.8
-67.5°	282.7	234.9	185.5	134.5	108.6	89.6	70.2	61.0	54.3	47.5	40.6
-70°	178.3	135.9	112.0	96.0	79.6	65.0	59.3	53.4	47.5	41.4	35.2
-72.5°	105.3	92.2	78.6	65.7	60.9	56.0	50.9	45.8	40.6	35.2	29.8
-75°	67.8	63.0	59.1	55.1	51.0	46.8	42.5	38.1	33.6	29.0	26.4
-77.5°	54.2	51.1	47.8	44.5	41.1	37.6	34.0	30.3	27.5	25.5	23.6
-80°	41.5	39.0	36.5	33.8	31.1	28.3	26.9	25.4	23.9	22.3	20.8
-82.5°	28.8	27.7	26.7	25.7	24.7	23.6	22.5	21.4	20.3	19.1	17.0
-85°	22.2	21.6	21.0	20.3	19.6	18.9	17.4	16.0	14.4	12.9	11.4
-87.5°	12.8	12.1	11.5	10.8	10.2	9.4	8.7	8.0	7.2	6.5	5.7
-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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**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°	4.9	4.1	3.3	2.5	1.6	0.8	0.0
85°	9.8	8.2	6.6	4.9	3.3	1.6	0.0
82.5°	14.6	12.2	9.8	7.4	4.9	2.5	0.0
80°	19.2	16.3	13.1	9.8	6.6	3.3	0.0
77.5°	21.6	19.6	16.3	12.2	8.2	4.1	0.0
75°	24.0	21.6	19.2	14.6	9.8	4.9	0.0
72.5°	26.4	23.6	20.8	17.0	11.4	5.7	0.0
70°	29.0	25.5	22.3	19.1	12.9	6.5	0.0
67.5°	33.6	27.5	23.9	20.3	14.4	7.2	0.0
65°	38.1	30.3	25.4	21.4	16.0	8.0	0.0
62.5°	42.5	34.0	26.9	22.5	17.4	8.7	0.0
60°	46.8	37.6	28.3	23.6	18.9	9.4	0.0
57.5°	51.0	41.1	31.1	24.7	19.6	10.2	0.0
55°	55.1	44.5	33.8	25.7	20.3	10.8	0.0
52.5°	59.1	47.8	36.5	26.7	21.0	11.5	0.0
50°	63.0	51.1	39.0	27.7	21.6	12.1	0.0
47.5°	67.8	54.2	41.5	28.8	22.2	12.8	0.0
45°	78.6	57.2	43.9	30.6	22.8	13.4	0.0
42.5°	88.9	60.0	46.2	32.3	23.4	13.9	0.0
40°	98.8	62.8	48.4	34.0	23.9	14.5	0.0
37.5°	108.2	65.3	50.5	35.5	24.5	15.0	0.0
35°	117.1	71.0	52.4	37.0	25.0	15.5	0.0
32.5°	130.0	78.0	54.3	38.4	25.4	15.9	0.0
30°	152.1	84.5	56.0	39.7	25.8	16.4	0.0
27.5°	172.7	90.5	57.6	40.9	26.2	16.8	0.0
25°	191.6	96.0	59.1	42.0	26.6	17.1	0.0
22.5°	208.8	101.1	60.4	43.0	27.0	17.5	0.0
20°	224.4	105.6	61.6	43.9	27.3	17.8	0.0
17.5°	238.2	109.7	62.7	44.7	27.5	18.0	0.0
15°	250.2	113.2	63.6	45.4	27.8	18.3	0.0
12.5°	260.4	116.2	64.4	45.9	27.9	18.5	0.0
10°	268.8	118.6	65.0	46.4	28.1	18.6	0.0
7.5°	275.4	120.5	65.5	46.8	28.2	18.7	0.0
5°	280.0	121.9	65.9	47.1	28.3	18.8	0.0
2.5°	282.9	122.7	66.1	47.2	28.4	18.9	0.0
0°	283.8	123.0	66.2	47.3	28.4	18.9	0.0
-2.5°	282.9	122.7	66.1	47.2	28.4	18.9	0.0
-5°	280.0	121.9	65.9	47.1	28.3	18.8	0.0
-7.5°	275.4	120.5	65.5	46.8	28.2	18.7	0.0
-10°	268.8	118.6	65.0	46.4	28.1	18.6	0.0
-12.5°	260.4	116.2	64.4	45.9	27.9	18.5	0.0
-15°	250.2	113.2	63.6	45.4	27.8	18.3	0.0
-17.5°	238.2	109.7	62.7	44.7	27.5	18.0	0.0
-20°	224.4	105.6	61.6	43.9	27.3	17.8	0.0



REPORT NUMBER: P699922 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	208.8	101.1	60.4	43.0	27.0	17.5	0.0
-25°	191.6	96.0	59.1	42.0	26.6	17.1	0.0
-27.5°	172.7	90.5	57.6	40.9	26.2	16.8	0.0
-30°	152.1	84.5	56.0	39.7	25.8	16.4	0.0
-32.5°	130.0	78.0	54.3	38.4	25.4	15.9	0.0
-35°	117.1	71.0	52.4	37.0	25.0	15.5	0.0
-37.5°	108.2	65.3	50.5	35.5	24.5	15.0	0.0
-40°	98.8	62.8	48.4	34.0	23.9	14.5	0.0
-42.5°	88.9	60.0	46.2	32.3	23.4	13.9	0.0
-45°	78.6	57.2	43.9	30.6	22.8	13.4	0.0
-47.5°	67.8	54.2	41.5	28.8	22.2	12.8	0.0
-50°	63.0	51.1	39.0	27.7	21.6	12.1	0.0
-52.5°	59.1	47.8	36.5	26.7	21.0	11.5	0.0
-55°	55.1	44.5	33.8	25.7	20.3	10.8	0.0
-57.5°	51.0	41.1	31.1	24.7	19.6	10.2	0.0
-60°	46.8	37.6	28.3	23.6	18.9	9.4	0.0
-62.5°	42.5	34.0	26.9	22.5	17.4	8.7	0.0
-65°	38.1	30.3	25.4	21.4	16.0	8.0	0.0
-67.5°	33.6	27.5	23.9	20.3	14.4	7.2	0.0
-70°	29.0	25.5	22.3	19.1	12.9	6.5	0.0
-72.5°	26.4	23.6	20.8	17.0	11.4	5.7	0.0
-75°	24.0	21.6	19.2	14.6	9.8	4.9	0.0
-77.5°	21.6	19.6	16.3	12.2	8.2	4.1	0.0
-80°	19.2	16.3	13.1	9.8	6.6	3.3	0.0
-82.5°	14.6	12.2	9.8	7.4	4.9	2.5	0.0
-85°	9.8	8.2	6.6	4.9	3.3	1.6	0.0
-87.5°	4.9	4.1	3.3	2.5	1.6	0.8	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)