

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: P699870 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200L-40-80-1S-S**

Issue Date: 8/10/2023

**Test Information**

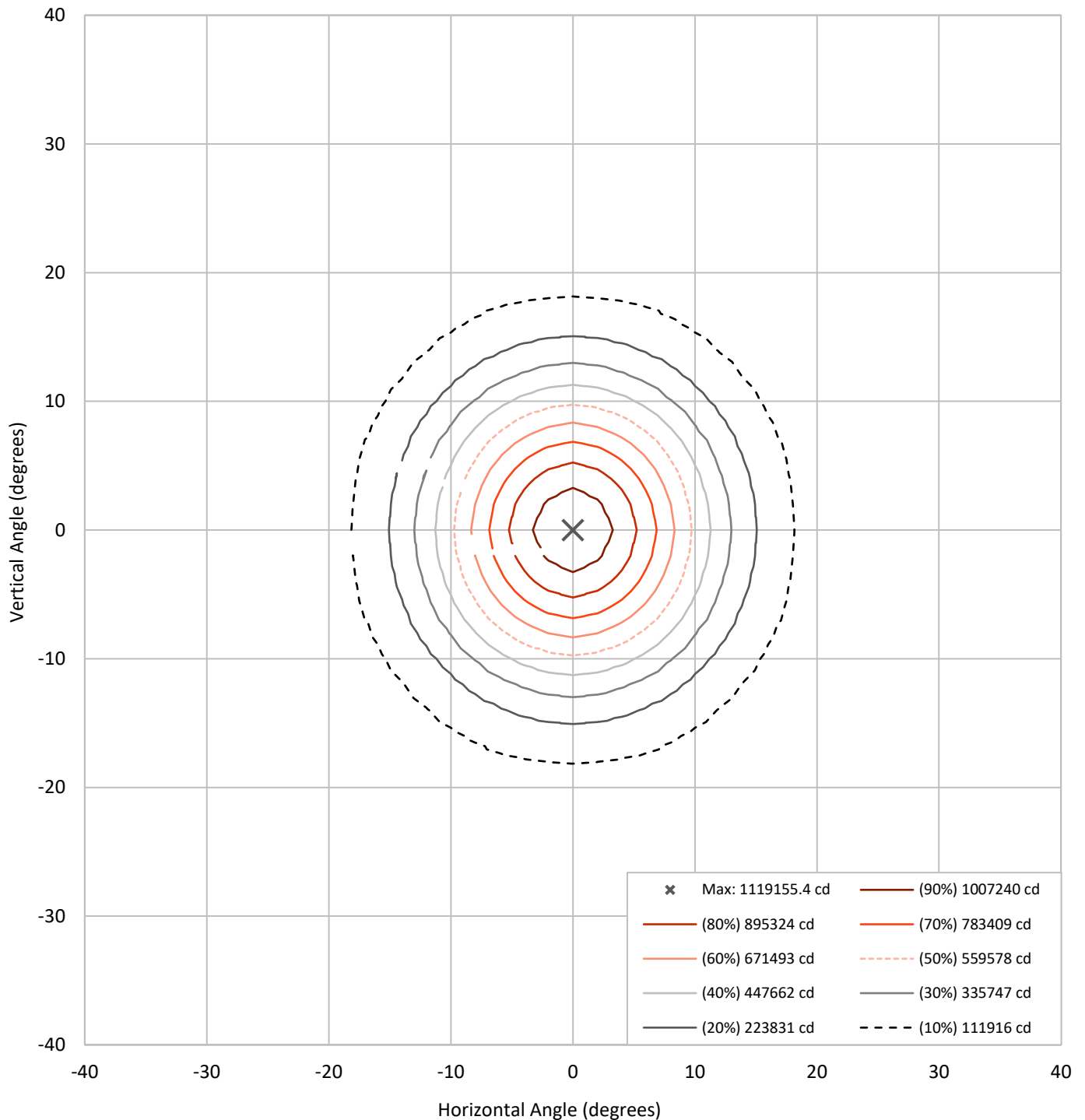
Test Method: LM-79-08  
Report Number: P699870 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-LS-16-1200L-40-80-1S-S  
Description: EPHEBUS LUMASPORT 16 LUMINAIRE  
(16) 4000K, 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:	170335.4 lumens	Max Intensity:	1119155.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	135.6 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:	75885.7 lumens	Field Lumens:	131888.4 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





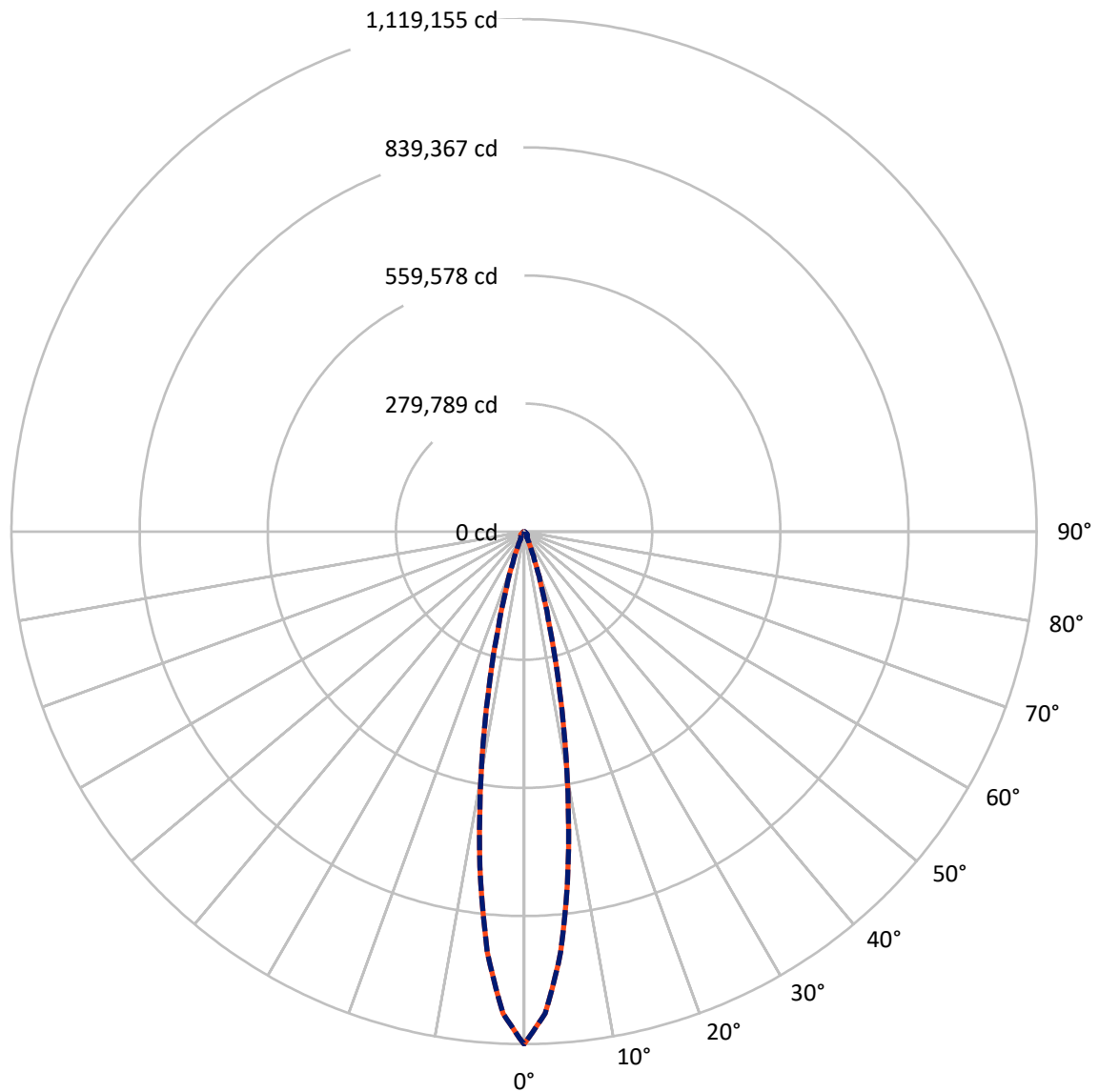
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### Lumen Table

90	0.3	2.0		7.3		17.7		23.0		17.7		7.3		2.0		0.3
80	0.3	2.0		7.3		17.7		23.0		17.7		7.3		2.0		0.3
70	0.9	1.1	4.4	12.2	23.4	35.6	45.8	51.5	51.5	45.8	35.6	23.4	12.2	4.4	1.1	0.9
60		3.3	13.9	32.8	56.8	79.4	95.8	104.7	104.7	95.8	79.4	56.8	32.8	13.9	3.3	
50	2.4	7.5	26.8	57.2	89.4	148.2	223.5	265.4	265.4	223.5	148.2	89.4	57.2	26.8	7.5	2.4
40		12.5	40.1	77.3	173.3	288.3	334.3	352.8	352.8	334.3	288.3	173.3	77.3	40.1	12.5	
30	5.1	17.1	50.7	116.8	260.9	323.4	433.1	747.8	747.8	433.1	323.4	260.9	116.8	50.7	17.1	5.1
20		20.7	57.4	165.7	283.7	407.4	1958.5	6223.5	6223.5	1958.5	407.4	283.7	165.7	57.4	20.7	
10	6.3	22.5	60.8	190.3	290.3	687.4	6069.1	21488.7	21488.7	6069.1	687.4	290.3	190.3	60.8	22.5	6.3
0		22.5	60.8	190.3	290.3	687.4	6069.1	21488.7	21488.7	6069.1	687.4	290.3	190.3	60.8	22.5	
-10	5.1	20.7	57.4	165.7	283.7	407.4	1958.5	6223.5	6223.5	1958.5	407.4	283.7	165.7	57.4	20.7	5.1
-20		17.1	50.7	116.8	260.9	323.4	433.1	747.8	747.8	433.1	323.4	260.9	116.8	50.7	17.1	
-30	2.4	12.5	40.1	77.3	173.3	288.3	334.3	352.8	352.8	334.3	288.3	173.3	77.3	40.1	12.5	2.4
-40		7.5	26.8	57.2	89.4	148.2	223.5	265.4	265.4	223.5	148.2	89.4	57.2	26.8	7.5	
-50	0.9	3.3	13.9	32.8	56.8	79.4	95.8	104.7	104.7	95.8	79.4	56.8	32.8	13.9	3.3	0.9
-60		1.1	4.4	12.2	23.4	35.6	45.8	51.5	51.5	45.8	35.6	23.4	12.2	4.4	1.1	
-70	0.3	2.0		7.3		17.7		23.0		17.7		7.3		2.0		0.3
-80		2.0		7.3		17.7		23.0		17.7		7.3		2.0		
-90	0.3	2.0		7.3		17.7		23.0		17.7		7.3		2.0		0.3

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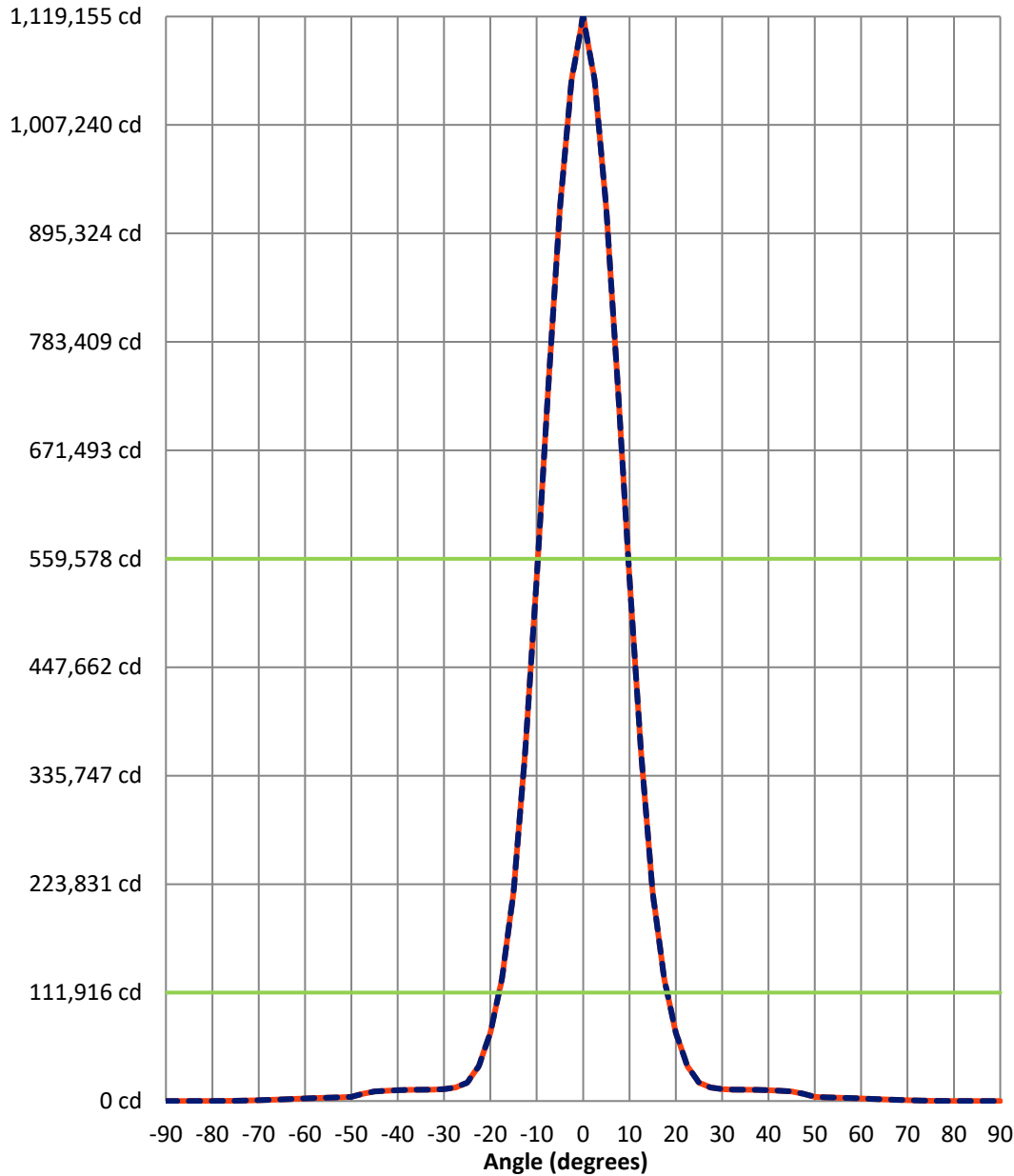
### Luminous Intensity Polar Plot



— 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: 75885.7  
 Efficiency: 44.6%

**Field:**  
 H Angle: 36.3°  
 V Angle: 36.3°  
 Lumens: 131888.4  
 Efficiency: 77.4%

**Spill:**  
 Lumens: 38447  
 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	2.4	3.2	4.0	4.8	5.6	6.4	7.2	7.9
85°	0.0	1.6	3.3	4.9	6.5	8.1	9.7	11.2	12.8	14.3	15.8
82.5°	0.0	2.4	4.9	7.3	9.7	12.1	14.5	16.8	18.9	20.1	21.2
80°	0.0	3.2	6.5	9.7	12.9	16.1	19.0	20.6	22.1	23.6	25.1
77.5°	0.0	4.0	8.1	12.1	16.1	19.4	21.4	23.3	25.3	27.2	30.0
75°	0.0	4.8	9.7	14.5	19.0	21.4	23.7	26.1	28.7	33.2	37.7
72.5°	0.0	5.6	11.2	16.8	20.6	23.3	26.1	29.5	34.9	40.1	45.3
70°	0.0	6.4	12.8	18.9	22.1	25.3	28.7	34.9	40.9	47.0	52.9
67.5°	0.0	7.2	14.3	20.1	23.6	27.2	33.2	40.1	47.0	53.7	60.4
65°	0.0	7.9	15.8	21.2	25.1	30.0	37.7	45.3	52.9	60.4	72.1
62.5°	0.0	8.6	17.3	22.3	26.6	33.6	42.0	50.4	58.7	69.6	93.8
60°	0.0	9.3	18.7	23.4	28.0	37.2	46.3	55.4	64.4	88.8	115.0
57.5°	0.0	10.0	19.4	24.4	30.7	40.7	50.5	60.3	78.8	107.5	161.6
55°	0.0	10.7	20.1	25.4	33.5	44.0	54.6	65.1	95.1	133.2	219.2
52.5°	0.0	11.4	20.7	26.4	36.1	47.3	58.6	77.9	111.0	183.7	275.3
50°	0.0	12.0	21.4	27.4	38.6	50.5	62.4	91.3	134.5	232.7	361.1
47.5°	0.0	12.6	22.0	28.5	41.1	53.6	67.2	104.3	176.6	280.0	447.9
45°	0.0	13.2	22.6	30.3	43.5	56.6	77.9	116.8	217.1	354.5	531.6
42.5°	0.0	13.8	23.2	32.0	45.7	59.5	88.1	141.5	256.0	426.7	629.3
40°	0.0	14.3	23.7	33.6	47.9	62.2	97.9	173.9	300.9	495.8	725.7
37.5°	0.0	14.8	24.2	35.2	49.9	64.8	107.2	204.8	359.2	566.2	817.6
35°	0.0	15.3	24.7	36.6	51.9	70.4	116.0	234.0	414.4	644.3	910.5
32.5°	0.0	15.8	25.1	38.0	53.7	77.2	128.7	261.4	466.3	717.8	1006.8
30°	0.0	16.2	25.6	39.2	55.4	83.7	150.6	291.1	515.0	786.7	1097.1
27.5°	0.0	16.6	26.0	40.4	57.0	89.6	171.0	330.4	564.5	850.8	1181.2
25°	0.0	16.9	26.3	41.5	58.5	95.1	189.7	366.6	616.6	916.5	1259.2
22.5°	0.0	17.3	26.7	42.5	59.8	100.1	206.8	399.6	664.1	979.7	1340.5
20°	0.0	17.6	27.0	43.4	61.0	104.6	222.2	429.4	707.0	1036.7	1413.9
17.5°	0.0	17.8	27.2	44.2	62.1	108.6	235.9	455.9	745.1	1087.4	1479.1
15°	0.0	18.1	27.5	44.9	63.0	112.1	247.8	478.9	778.4	1131.6	1536.1
12.5°	0.0	18.3	27.7	45.5	63.8	115.0	257.9	498.5	806.6	1169.2	1584.6
10°	0.0	18.4	27.8	45.9	64.4	117.5	266.2	514.6	829.9	1200.2	1624.5
7.5°	0.0	18.5	27.9	46.3	65.0	119.4	272.7	527.2	848.0	1224.3	1655.7
5°	0.0	18.6	28.0	46.6	65.3	120.7	277.4	536.2	861.0	1241.6	1678.0
2.5°	0.0	18.7	28.1	46.7	65.5	121.5	280.2	541.6	868.8	1252.0	1691.4
0°	0.0	18.7	28.1	46.8	65.6	121.8	281.1	543.4	871.4	1255.5	1695.9
-2.5°	0.0	18.7	28.1	46.7	65.5	121.5	280.2	541.6	868.8	1252.0	1691.4
-5°	0.0	18.6	28.0	46.6	65.3	120.7	277.4	536.2	861.0	1241.6	1678.0
-7.5°	0.0	18.5	27.9	46.3	65.0	119.4	272.7	527.2	848.0	1224.3	1655.7
-10°	0.0	18.4	27.8	45.9	64.4	117.5	266.2	514.6	829.9	1200.2	1624.5
-12.5°	0.0	18.3	27.7	45.5	63.8	115.0	257.9	498.5	806.6	1169.2	1584.6
-15°	0.0	18.1	27.5	44.9	63.0	112.1	247.8	478.9	778.4	1131.6	1536.1
-17.5°	0.0	17.8	27.2	44.2	62.1	108.6	235.9	455.9	745.1	1087.4	1479.1
-20°	0.0	17.6	27.0	43.4	61.0	104.6	222.2	429.4	707.0	1036.7	1413.9



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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	17.3	26.7	42.5	59.8	100.1	206.8	399.6	664.1	979.7	1340.5
-25°	0.0	16.9	26.3	41.5	58.5	95.1	189.7	366.6	616.6	916.5	1259.2
-27.5°	0.0	16.6	26.0	40.4	57.0	89.6	171.0	330.4	564.5	850.8	1181.2
-30°	0.0	16.2	25.6	39.2	55.4	83.7	150.6	291.1	515.0	786.7	1097.1
-32.5°	0.0	15.8	25.1	38.0	53.7	77.2	128.7	261.4	466.3	717.8	1006.8
-35°	0.0	15.3	24.7	36.6	51.9	70.4	116.0	234.0	414.4	644.3	910.5
-37.5°	0.0	14.8	24.2	35.2	49.9	64.8	107.2	204.8	359.2	566.2	817.6
-40°	0.0	14.3	23.7	33.6	47.9	62.2	97.9	173.9	300.9	495.8	725.7
-42.5°	0.0	13.8	23.2	32.0	45.7	59.5	88.1	141.5	256.0	426.7	629.3
-45°	0.0	13.2	22.6	30.3	43.5	56.6	77.9	116.8	217.1	354.5	531.6
-47.5°	0.0	12.6	22.0	28.5	41.1	53.6	67.2	104.3	176.6	280.0	447.9
-50°	0.0	12.0	21.4	27.4	38.6	50.5	62.4	91.3	134.5	232.7	361.1
-52.5°	0.0	11.4	20.7	26.4	36.1	47.3	58.6	77.9	111.0	183.7	275.3
-55°	0.0	10.7	20.1	25.4	33.5	44.0	54.6	65.1	95.1	133.2	219.2
-57.5°	0.0	10.0	19.4	24.4	30.7	40.7	50.5	60.3	78.8	107.5	161.6
-60°	0.0	9.3	18.7	23.4	28.0	37.2	46.3	55.4	64.4	88.8	115.0
-62.5°	0.0	8.6	17.3	22.3	26.6	33.6	42.0	50.4	58.7	69.6	93.8
-65°	0.0	7.9	15.8	21.2	25.1	30.0	37.7	45.3	52.9	60.4	72.1
-67.5°	0.0	7.2	14.3	20.1	23.6	27.2	33.2	40.1	47.0	53.7	60.4
-70°	0.0	6.4	12.8	18.9	22.1	25.3	28.7	34.9	40.9	47.0	52.9
-72.5°	0.0	5.6	11.2	16.8	20.6	23.3	26.1	29.5	34.9	40.1	45.3
-75°	0.0	4.8	9.7	14.5	19.0	21.4	23.7	26.1	28.7	33.2	37.7
-77.5°	0.0	4.0	8.1	12.1	16.1	19.4	21.4	23.3	25.3	27.2	30.0
-80°	0.0	3.2	6.5	9.7	12.9	16.1	19.0	20.6	22.1	23.6	25.1
-82.5°	0.0	2.4	4.9	7.3	9.7	12.1	14.5	16.8	18.9	20.1	21.2
-85°	0.0	1.6	3.3	4.9	6.5	8.1	9.7	11.2	12.8	14.3	15.8
-87.5°	0.0	0.8	1.6	2.4	3.2	4.0	4.8	5.6	6.4	7.2	7.9
-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°	8.6	9.3	10.0	10.7	11.4	12.0	12.6	13.2	13.8	14.3	14.8
85°	17.3	18.7	19.4	20.1	20.7	21.4	22.0	22.6	23.2	23.7	24.2
82.5°	22.3	23.4	24.4	25.4	26.4	27.4	28.5	30.3	32.0	33.6	35.2
80°	26.6	28.0	30.7	33.5	36.1	38.6	41.1	43.5	45.7	47.9	49.9
77.5°	33.6	37.2	40.7	44.0	47.3	50.5	53.6	56.6	59.5	62.2	64.8
75°	42.0	46.3	50.5	54.6	58.6	62.4	67.2	77.9	88.1	97.9	107.2
72.5°	50.4	55.4	60.3	65.1	77.9	91.3	104.3	116.8	141.5	173.9	204.8
70°	58.7	64.4	78.8	95.1	111.0	134.5	176.6	217.1	256.0	300.9	359.2
67.5°	69.6	88.8	107.5	133.2	183.7	232.7	280.0	354.5	426.7	495.8	566.2
65°	93.8	115.0	161.6	219.2	275.3	361.1	447.9	531.6	629.3	725.7	817.6
62.5°	117.5	175.9	240.6	318.7	420.2	518.8	632.2	747.7	858.7	981.3	1100.2
60°	175.9	247.8	342.4	455.9	572.4	707.0	837.6	979.7	1122.1	1259.2	1408.9
57.5°	240.6	342.4	467.8	602.4	752.3	902.8	1068.7	1229.3	1402.9	1573.5	1740.1
55°	318.7	455.9	602.4	767.4	938.5	1122.6	1308.2	1507.0	1699.1	1899.4	2091.2
52.5°	420.2	572.4	752.3	938.5	1140.6	1349.9	1569.9	1790.9	2014.8	2232.8	2447.7
50°	518.8	707.0	902.8	1122.6	1349.9	1591.0	1837.0	2084.7	2330.4	2570.8	2799.2
47.5°	632.2	837.6	1068.7	1308.2	1569.9	1837.0	2108.1	2379.6	2645.4	2897.8	3140.2
45°	747.7	979.7	1229.3	1507.0	1790.9	2084.7	2379.6	2670.4	2947.5	3197.8	3376.7
42.5°	858.7	1122.1	1402.9	1699.1	2014.8	2330.4	2645.4	2947.5	3215.3	3412.3	3590.5
40°	981.3	1259.2	1573.5	1899.4	2232.8	2570.8	2897.8	3197.8	3412.3	3606.7	3785.9
37.5°	1100.2	1408.9	1740.1	2091.2	2447.7	2799.2	3140.2	3376.7	3590.5	3785.9	4133.5
35°	1213.2	1551.1	1908.5	2278.0	2652.9	3015.7	3306.2	3542.4	3753.1	4102.0	5031.3
32.5°	1329.4	1685.6	2067.9	2458.0	2844.3	3201.9	3459.2	3688.0	4008.0	4669.0	6888.2
30°	1444.2	1821.9	2219.6	2627.5	3024.4	3336.5	3591.9	3853.4	4285.0	6334.1	8378.9
27.5°	1551.1	1949.7	2365.1	2783.8	3182.2	3462.7	3712.7	4097.1	5423.3	7813.1	9642.6
25°	1649.9	2067.9	2499.7	2927.9	3290.6	3570.6	3852.1	4324.5	6799.7	8922.6	10177.5
22.5°	1744.1	2176.3	2623.1	3060.1	3390.1	3666.5	4046.8	5357.0	7937.1	9918.1	10504.0
20°	1832.7	2278.0	2733.6	3173.1	3480.5	3753.8	4223.9	6435.9	8812.2	10196.6	10772.4
17.5°	1911.5	2368.6	2831.4	3247.1	3553.9	3864.3	4502.4	7404.8	9599.7	10447.9	11000.4
15°	1980.4	2447.7	2916.9	3312.0	3616.8	3992.8	5288.8	8075.6	10019.2	10660.0	11200.4
12.5°	2039.1	2515.2	2989.8	3367.3	3670.6	4102.7	5962.6	8625.8	10195.6	10820.8	11308.5
10°	2087.4	2570.8	3049.9	3413.0	3715.0	4193.5	6519.8	9081.3	10341.9	10954.4	11398.5
7.5°	2125.1	2614.3	3096.8	3448.7	3749.7	4264.7	6956.9	9439.1	10456.9	11059.7	11469.5
5°	2152.1	2645.4	3130.6	3474.3	3774.7	4315.8	7271.2	9696.6	10539.8	11135.6	11520.8
2.5°	2168.4	2664.1	3150.8	3489.7	3789.7	4346.6	7460.6	9851.9	10589.8	11181.5	11551.8
0°	2173.8	2670.4	3157.6	3494.9	3794.7	4356.9	7523.9	9903.8	10606.5	11196.8	11562.2
-2.5°	2168.4	2664.1	3150.8	3489.7	3789.7	4346.6	7460.6	9851.9	10589.8	11181.5	11551.8
-5°	2152.1	2645.4	3130.6	3474.3	3774.7	4315.8	7271.2	9696.6	10539.8	11135.6	11520.8
-7.5°	2125.1	2614.3	3096.8	3448.7	3749.7	4264.7	6956.9	9439.1	10456.9	11059.7	11469.5
-10°	2087.4	2570.8	3049.9	3413.0	3715.0	4193.5	6519.8	9081.3	10341.9	10954.4	11398.5
-12.5°	2039.1	2515.2	2989.8	3367.3	3670.6	4102.7	5962.6	8625.8	10195.6	10820.8	11308.5
-15°	1980.4	2447.7	2916.9	3312.0	3616.8	3992.8	5288.8	8075.6	10019.2	10660.0	11200.4
-17.5°	1911.5	2368.6	2831.4	3247.1	3553.9	3864.3	4502.4	7404.8	9599.7	10447.9	11000.4
-20°	1832.7	2278.0	2733.6	3173.1	3480.5	3753.8	4223.9	6435.9	8812.2	10196.6	10772.4



REPORT NUMBER: P699870 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-1S-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1744.1	2176.3	2623.1	3060.1	3390.1	3666.5	4046.8	5357.0	7937.1	9918.1	10504.0
-25°	1649.9	2067.9	2499.7	2927.9	3290.6	3570.6	3852.1	4324.5	6799.7	8922.6	10177.5
-27.5°	1551.1	1949.7	2365.1	2783.8	3182.2	3462.7	3712.7	4097.1	5423.3	7813.1	9642.6
-30°	1444.2	1821.9	2219.6	2627.5	3024.4	3336.5	3591.9	3853.4	4285.0	6334.1	8378.9
-32.5°	1329.4	1685.6	2067.9	2458.0	2844.3	3201.9	3459.2	3688.0	4008.0	4669.0	6888.2
-35°	1213.2	1551.1	1908.5	2278.0	2652.9	3015.7	3306.2	3542.4	3753.1	4102.0	5031.3
-37.5°	1100.2	1408.9	1740.1	2091.2	2447.7	2799.2	3140.2	3376.7	3590.5	3785.9	4133.5
-40°	981.3	1259.2	1573.5	1899.4	2232.8	2570.8	2897.8	3197.8	3412.3	3606.7	3785.9
-42.5°	858.7	1122.1	1402.9	1699.1	2014.8	2330.4	2645.4	2947.5	3215.3	3412.3	3590.5
-45°	747.7	979.7	1229.3	1507.0	1790.9	2084.7	2379.6	2670.4	2947.5	3197.8	3376.7
-47.5°	632.2	837.6	1068.7	1308.2	1569.9	1837.0	2108.1	2379.6	2645.4	2897.8	3140.2
-50°	518.8	707.0	902.8	1122.6	1349.9	1591.0	1837.0	2084.7	2330.4	2570.8	2799.2
-52.5°	420.2	572.4	752.3	938.5	1140.6	1349.9	1569.9	1790.9	2014.8	2232.8	2447.7
-55°	318.7	455.9	602.4	767.4	938.5	1122.6	1308.2	1507.0	1699.1	1899.4	2091.2
-57.5°	240.6	342.4	467.8	602.4	752.3	902.8	1068.7	1229.3	1402.9	1573.5	1740.1
-60°	175.9	247.8	342.4	455.9	572.4	707.0	837.6	979.7	1122.1	1259.2	1408.9
-62.5°	117.5	175.9	240.6	318.7	420.2	518.8	632.2	747.7	858.7	981.3	1100.2
-65°	93.8	115.0	161.6	219.2	275.3	361.1	447.9	531.6	629.3	725.7	817.6
-67.5°	69.6	88.8	107.5	133.2	183.7	232.7	280.0	354.5	426.7	495.8	566.2
-70°	58.7	64.4	78.8	95.1	111.0	134.5	176.6	217.1	256.0	300.9	359.2
-72.5°	50.4	55.4	60.3	65.1	77.9	91.3	104.3	116.8	141.5	173.9	204.8
-75°	42.0	46.3	50.5	54.6	58.6	62.4	67.2	77.9	88.1	97.9	107.2
-77.5°	33.6	37.2	40.7	44.0	47.3	50.5	53.6	56.6	59.5	62.2	64.8
-80°	26.6	28.0	30.7	33.5	36.1	38.6	41.1	43.5	45.7	47.9	49.9
-82.5°	22.3	23.4	24.4	25.4	26.4	27.4	28.5	30.3	32.0	33.6	35.2
-85°	17.3	18.7	19.4	20.1	20.7	21.4	22.0	22.6	23.2	23.7	24.2
-87.5°	8.6	9.3	10.0	10.7	11.4	12.0	12.6	13.2	13.8	14.3	14.8
-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: P699870 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-1S-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°	15.3	15.8	16.2	16.6	16.9	17.3	17.6	17.8	18.1	18.3	18.4
85°	24.7	25.1	25.6	26.0	26.3	26.7	27.0	27.2	27.5	27.7	27.8
82.5°	36.6	38.0	39.2	40.4	41.5	42.5	43.4	44.2	44.9	45.5	45.9
80°	51.9	53.7	55.4	57.0	58.5	59.8	61.0	62.1	63.0	63.8	64.4
77.5°	70.4	77.2	83.7	89.6	95.1	100.1	104.6	108.6	112.1	115.0	117.5
75°	116.0	128.7	150.6	171.0	189.7	206.8	222.2	235.9	247.8	257.9	266.2
72.5°	234.0	261.4	291.1	330.4	366.6	399.6	429.4	455.9	478.9	498.5	514.6
70°	414.4	466.3	515.0	564.5	616.6	664.1	707.0	745.1	778.4	806.6	829.9
67.5°	644.3	717.8	786.7	850.8	916.5	979.7	1036.7	1087.4	1131.6	1169.2	1200.2
65°	910.5	1006.8	1097.1	1181.2	1259.2	1340.5	1413.9	1479.1	1536.1	1584.6	1624.5
62.5°	1213.2	1329.4	1444.2	1551.1	1649.9	1744.1	1832.7	1911.5	1980.4	2039.1	2087.4
60°	1551.1	1685.6	1821.9	1949.7	2067.9	2176.3	2278.0	2368.6	2447.7	2515.2	2570.8
57.5°	1908.5	2067.9	2219.6	2365.1	2499.7	2623.1	2733.6	2831.4	2916.9	2989.8	3049.9
55°	2278.0	2458.0	2627.5	2783.8	2927.9	3060.1	3173.1	3247.1	3312.0	3367.3	3413.0
52.5°	2652.9	2844.3	3024.4	3182.2	3290.6	3390.1	3480.5	3553.9	3616.8	3670.6	3715.0
50°	3015.7	3201.9	3336.5	3462.7	3570.6	3666.5	3753.8	3864.3	3992.8	4102.7	4193.5
47.5°	3306.2	3459.2	3591.9	3712.7	3852.1	4046.8	4223.9	4502.4	5288.8	5962.6	6519.8
45°	3542.4	3688.0	3853.4	4097.1	4324.5	5357.0	6435.9	7404.8	8075.6	8625.8	9081.3
42.5°	3753.1	4008.0	4285.0	5423.3	6799.7	7937.1	8812.2	9599.7	10019.2	10195.6	10341.9
40°	4102.0	4669.0	6334.1	7813.1	8922.6	9918.1	10196.6	10447.9	10660.0	10820.8	10954.4
37.5°	5031.3	6888.2	8378.9	9642.6	10177.5	10504.0	10772.4	11000.4	11200.4	11308.5	11398.5
35°	7074.3	8665.0	9956.3	10354.0	10709.6	11003.8	11245.3	11397.6	11533.2	11593.9	11629.1
32.5°	8665.0	9999.8	10443.4	10825.1	11161.7	11370.2	11550.9	11617.2	11669.9	11703.0	11719.4
30°	9956.3	10443.4	10864.0	11224.6	11446.7	11595.8	11665.5	11708.8	11733.3	11798.6	11972.4
27.5°	10354.0	10825.1	11224.6	11472.5	11614.9	11694.2	11726.3	11809.3	12066.5	12292.1	12894.5
25°	10709.6	11161.7	11446.7	11614.9	11698.4	11735.2	11943.4	12251.8	13048.5	13830.9	15413.9
22.5°	11003.8	11370.2	11595.8	11694.2	11735.2	11988.8	12462.6	13519.0	15378.2	17880.4	22353.9
20°	11245.3	11550.9	11665.5	11726.3	11943.4	12462.6	13678.6	16357.9	20317.9	29649.1	39322.6
17.5°	11397.6	11617.2	11708.8	11809.3	12251.8	13519.0	16357.9	22101.5	33431.3	51435.1	69574.6
15°	11533.2	11669.9	11733.3	12066.5	13048.5	15378.2	20317.9	33431.3	55589.7	83283.1	116045.7
12.5°	11593.9	11703.0	11798.6	12292.1	13830.9	17880.4	29649.1	51435.1	83283.1	124003.0	181686.6
10°	11629.1	11719.4	11972.4	12894.5	15413.9	22353.9	39322.6	69574.6	116045.7	181686.6	261938.5
7.5°	11657.0	11732.5	12110.8	13377.7	16972.9	28235.9	52615.9	93097.6	153930.7	239317.4	361800.4
5°	11677.1	11741.9	12211.5	13730.3	18115.7	32572.2	62492.1	111254.3	187592.6	300177.6	454997.8
2.5°	11689.3	11747.7	12272.6	13945.0	18813.7	35232.6	68586.3	122550.0	208787.0	343960.8	518095.5
0°	11693.4	11749.6	12293.1	14017.1	19048.6	36129.6	70647.6	126388.0	216037.4	360265.3	540285.5
-2.5°	11689.3	11747.7	12272.6	13945.0	18813.7	35232.6	68586.3	122550.0	208787.0	343960.8	518095.5
-5°	11677.1	11741.9	12211.5	13730.3	18115.7	32572.2	62492.1	111254.3	187592.6	300177.6	454997.8
-7.5°	11657.0	11732.5	12110.8	13377.7	16972.9	28235.9	52615.9	93097.6	153930.7	239317.4	361800.4
-10°	11629.1	11719.4	11972.4	12894.5	15413.9	22353.9	39322.6	69574.6	116045.7	181686.6	261938.5
-12.5°	11593.9	11703.0	11798.6	12292.1	13830.9	17880.4	29649.1	51435.1	83283.1	124003.0	181686.6
-15°	11533.2	11669.9	11733.3	12066.5	13048.5	15378.2	20317.9	33431.3	55589.7	83283.1	116045.7
-17.5°	11397.6	11617.2	11708.8	11809.3	12251.8	13519.0	16357.9	22101.5	33431.3	51435.1	69574.6
-20°	11245.3	11550.9	11665.5	11726.3	11943.4	12462.6	13678.6	16357.9	20317.9	29649.1	39322.6



REPORT NUMBER: P699870 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-1S-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	11003.8	11370.2	11595.8	11694.2	11735.2	11988.8	12462.6	13519.0	15378.2	17880.4	22353.9
-25°	10709.6	11161.7	11446.7	11614.9	11698.4	11735.2	11943.4	12251.8	13048.5	13830.9	15413.9
-27.5°	10354.0	10825.1	11224.6	11472.5	11614.9	11694.2	11726.3	11809.3	12066.5	12292.1	12894.5
-30°	9956.3	10443.4	10864.0	11224.6	11446.7	11595.8	11665.5	11708.8	11733.3	11798.6	11972.4
-32.5°	8665.0	9999.8	10443.4	10825.1	11161.7	11370.2	11550.9	11617.2	11669.9	11703.0	11719.4
-35°	7074.3	8665.0	9956.3	10354.0	10709.6	11003.8	11245.3	11397.6	11533.2	11593.9	11629.1
-37.5°	5031.3	6888.2	8378.9	9642.6	10177.5	10504.0	10772.4	11000.4	11200.4	11308.5	11398.5
-40°	4102.0	4669.0	6334.1	7813.1	8922.6	9918.1	10196.6	10447.9	10660.0	10820.8	10954.4
-42.5°	3753.1	4008.0	4285.0	5423.3	6799.7	7937.1	8812.2	9599.7	10019.2	10195.6	10341.9
-45°	3542.4	3688.0	3853.4	4097.1	4324.5	5357.0	6435.9	7404.8	8075.6	8625.8	9081.3
-47.5°	3306.2	3459.2	3591.9	3712.7	3852.1	4046.8	4223.9	4502.4	5288.8	5962.6	6519.8
-50°	3015.7	3201.9	3336.5	3462.7	3570.6	3666.5	3753.8	3864.3	3992.8	4102.7	4193.5
-52.5°	2652.9	2844.3	3024.4	3182.2	3290.6	3390.1	3480.5	3553.9	3616.8	3670.6	3715.0
-55°	2278.0	2458.0	2627.5	2783.8	2927.9	3060.1	3173.1	3247.1	3312.0	3367.3	3413.0
-57.5°	1908.5	2067.9	2219.6	2365.1	2499.7	2623.1	2733.6	2831.4	2916.9	2989.8	3049.9
-60°	1551.1	1685.6	1821.9	1949.7	2067.9	2176.3	2278.0	2368.6	2447.7	2515.2	2570.8
-62.5°	1213.2	1329.4	1444.2	1551.1	1649.9	1744.1	1832.7	1911.5	1980.4	2039.1	2087.4
-65°	910.5	1006.8	1097.1	1181.2	1259.2	1340.5	1413.9	1479.1	1536.1	1584.6	1624.5
-67.5°	644.3	717.8	786.7	850.8	916.5	979.7	1036.7	1087.4	1131.6	1169.2	1200.2
-70°	414.4	466.3	515.0	564.5	616.6	664.1	707.0	745.1	778.4	806.6	829.9
-72.5°	234.0	261.4	291.1	330.4	366.6	399.6	429.4	455.9	478.9	498.5	514.6
-75°	116.0	128.7	150.6	171.0	189.7	206.8	222.2	235.9	247.8	257.9	266.2
-77.5°	70.4	77.2	83.7	89.6	95.1	100.1	104.6	108.6	112.1	115.0	117.5
-80°	51.9	53.7	55.4	57.0	58.5	59.8	61.0	62.1	63.0	63.8	64.4
-82.5°	36.6	38.0	39.2	40.4	41.5	42.5	43.4	44.2	44.9	45.5	45.9
-85°	24.7	25.1	25.6	26.0	26.3	26.7	27.0	27.2	27.5	27.7	27.8
-87.5°	15.3	15.8	16.2	16.6	16.9	17.3	17.6	17.8	18.1	18.3	18.4
-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: P699870 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-1S-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°	18.5	18.6	18.7	18.7	18.7	18.6	18.5	18.4	18.3	18.1	17.8
85°	27.9	28.0	28.1	28.1	28.1	28.0	27.9	27.8	27.7	27.5	27.2
82.5°	46.3	46.6	46.7	46.8	46.7	46.6	46.3	45.9	45.5	44.9	44.2
80°	65.0	65.3	65.5	65.6	65.5	65.3	65.0	64.4	63.8	63.0	62.1
77.5°	119.4	120.7	121.5	121.8	121.5	120.7	119.4	117.5	115.0	112.1	108.6
75°	272.7	277.4	280.2	281.1	280.2	277.4	272.7	266.2	257.9	247.8	235.9
72.5°	527.2	536.2	541.6	543.4	541.6	536.2	527.2	514.6	498.5	478.9	455.9
70°	848.0	861.0	868.8	871.4	868.8	861.0	848.0	829.9	806.6	778.4	745.1
67.5°	1224.3	1241.6	1252.0	1255.5	1252.0	1241.6	1224.3	1200.2	1169.2	1131.6	1087.4
65°	1655.7	1678.0	1691.4	1695.9	1691.4	1678.0	1655.7	1624.5	1584.6	1536.1	1479.1
62.5°	2125.1	2152.1	2168.4	2173.8	2168.4	2152.1	2125.1	2087.4	2039.1	1980.4	1911.5
60°	2614.3	2645.4	2664.1	2670.4	2664.1	2645.4	2614.3	2570.8	2515.2	2447.7	2368.6
57.5°	3096.8	3130.6	3150.8	3157.6	3150.8	3130.6	3096.8	3049.9	2989.8	2916.9	2831.4
55°	3448.7	3474.3	3489.7	3494.9	3489.7	3474.3	3448.7	3413.0	3367.3	3312.0	3247.1
52.5°	3749.7	3774.7	3789.7	3794.7	3789.7	3774.7	3749.7	3715.0	3670.6	3616.8	3553.9
50°	4264.7	4315.8	4346.6	4356.9	4346.6	4315.8	4264.7	4193.5	4102.7	3992.8	3864.3
47.5°	6956.9	7271.2	7460.6	7523.9	7460.6	7271.2	6956.9	6519.8	5962.6	5288.8	4502.4
45°	9439.1	9696.6	9851.9	9903.8	9851.9	9696.6	9439.1	9081.3	8625.8	8075.6	7404.8
42.5°	10456.9	10539.8	10589.8	10606.5	10589.8	10539.8	10456.9	10341.9	10195.6	10019.2	9599.7
40°	11059.7	11135.6	11181.5	11196.8	11181.5	11135.6	11059.7	10954.4	10820.8	10660.0	10447.9
37.5°	11469.5	11520.8	11551.8	11562.2	11551.8	11520.8	11469.5	11398.5	11308.5	11200.4	11000.4
35°	11657.0	11677.1	11689.3	11693.4	11689.3	11677.1	11657.0	11629.1	11593.9	11533.2	11397.6
32.5°	11732.5	11741.9	11747.7	11749.6	11747.7	11741.9	11732.5	11719.4	11703.0	11669.9	11617.2
30°	12110.8	12211.5	12272.6	12293.1	12272.6	12211.5	12110.8	11972.4	11798.6	11733.3	11708.8
27.5°	13377.7	13730.3	13945.0	14017.1	13945.0	13730.3	13377.7	12894.5	12292.1	12066.5	11809.3
25°	16972.9	18115.7	18813.7	19048.6	18813.7	18115.7	16972.9	15413.9	13830.9	13048.5	12251.8
22.5°	28235.9	32572.2	35232.6	36129.6	35232.6	32572.2	28235.9	22353.9	17880.4	15378.2	13519.0
20°	52615.9	62492.1	68586.3	70647.6	68586.3	62492.1	52615.9	39322.6	29649.1	20317.9	16357.9
17.5°	93097.6	111254.3	122550.0	126388.0	122550.0	111254.3	93097.6	69574.6	51435.1	33431.3	22101.5
15°	153930.7	187592.6	208787.0	216037.4	208787.0	187592.6	153930.7	116045.7	83283.1	55589.7	33431.3
12.5°	239317.4	300177.6	343960.8	360265.3	343960.8	300177.6	239317.4	181686.6	124003.0	83283.1	51435.1
10°	361800.4	454997.8	518095.5	540285.5	518095.5	454997.8	361800.4	261938.5	181686.6	116045.7	69574.6
7.5°	497212.6	614807.1	703651.6	737377.3	703651.6	614807.1	497212.6	361800.4	239317.4	153930.7	93097.6
5°	614807.1	773610.1	881843.9	920817.4	881843.9	773610.1	614807.1	454997.8	300177.6	187592.6	111254.3
2.5°	703651.6	881843.9	#####	#####	#####	881843.9	703651.6	518095.5	343960.8	208787.0	122550.0
0°	737377.3	920817.4	#####	#####	#####	920817.4	737377.3	540285.5	360265.3	216037.4	126388.0
-2.5°	703651.6	881843.9	#####	#####	#####	881843.9	703651.6	518095.5	343960.8	208787.0	122550.0
-5°	614807.1	773610.1	881843.9	920817.4	881843.9	773610.1	614807.1	454997.8	300177.6	187592.6	111254.3
-7.5°	497212.6	614807.1	703651.6	737377.3	703651.6	614807.1	497212.6	361800.4	239317.4	153930.7	93097.6
-10°	361800.4	454997.8	518095.5	540285.5	518095.5	454997.8	361800.4	261938.5	181686.6	116045.7	69574.6
-12.5°	239317.4	300177.6	343960.8	360265.3	343960.8	300177.6	239317.4	181686.6	124003.0	83283.1	51435.1
-15°	153930.7	187592.6	208787.0	216037.4	208787.0	187592.6	153930.7	116045.7	83283.1	55589.7	33431.3
-17.5°	93097.6	111254.3	122550.0	126388.0	122550.0	111254.3	93097.6	69574.6	51435.1	33431.3	22101.5
-20°	52615.9	62492.1	68586.3	70647.6	68586.3	62492.1	52615.9	39322.6	29649.1	20317.9	16357.9



REPORT NUMBER: P699870 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	28235.9	32572.2	35232.6	36129.6	35232.6	32572.2	28235.9	22353.9	17880.4	15378.2	13519.0
-25°	16972.9	18115.7	18813.7	19048.6	18813.7	18115.7	16972.9	15413.9	13830.9	13048.5	12251.8
-27.5°	13377.7	13730.3	13945.0	14017.1	13945.0	13730.3	13377.7	12894.5	12292.1	12066.5	11809.3
-30°	12110.8	12211.5	12272.6	12293.1	12272.6	12211.5	12110.8	11972.4	11798.6	11733.3	11708.8
-32.5°	11732.5	11741.9	11747.7	11749.6	11747.7	11741.9	11732.5	11719.4	11703.0	11669.9	11617.2
-35°	11657.0	11677.1	11689.3	11693.4	11689.3	11677.1	11657.0	11629.1	11593.9	11533.2	11397.6
-37.5°	11469.5	11520.8	11551.8	11562.2	11551.8	11520.8	11469.5	11398.5	11308.5	11200.4	11000.4
-40°	11059.7	11135.6	11181.5	11196.8	11181.5	11135.6	11059.7	10954.4	10820.8	10660.0	10447.9
-42.5°	10456.9	10539.8	10589.8	10606.5	10589.8	10539.8	10456.9	10341.9	10195.6	10019.2	9599.7
-45°	9439.1	9696.6	9851.9	9903.8	9851.9	9696.6	9439.1	9081.3	8625.8	8075.6	7404.8
-47.5°	6956.9	7271.2	7460.6	7523.9	7460.6	7271.2	6956.9	6519.8	5962.6	5288.8	4502.4
-50°	4264.7	4315.8	4346.6	4356.9	4346.6	4315.8	4264.7	4193.5	4102.7	3992.8	3864.3
-52.5°	3749.7	3774.7	3789.7	3794.7	3789.7	3774.7	3749.7	3715.0	3670.6	3616.8	3553.9
-55°	3448.7	3474.3	3489.7	3494.9	3489.7	3474.3	3448.7	3413.0	3367.3	3312.0	3247.1
-57.5°	3096.8	3130.6	3150.8	3157.6	3150.8	3130.6	3096.8	3049.9	2989.8	2916.9	2831.4
-60°	2614.3	2645.4	2664.1	2670.4	2664.1	2645.4	2614.3	2570.8	2515.2	2447.7	2368.6
-62.5°	2125.1	2152.1	2168.4	2173.8	2168.4	2152.1	2125.1	2087.4	2039.1	1980.4	1911.5
-65°	1655.7	1678.0	1691.4	1695.9	1691.4	1678.0	1655.7	1624.5	1584.6	1536.1	1479.1
-67.5°	1224.3	1241.6	1252.0	1255.5	1252.0	1241.6	1224.3	1200.2	1169.2	1131.6	1087.4
-70°	848.0	861.0	868.8	871.4	868.8	861.0	848.0	829.9	806.6	778.4	745.1
-72.5°	527.2	536.2	541.6	543.4	541.6	536.2	527.2	514.6	498.5	478.9	455.9
-75°	272.7	277.4	280.2	281.1	280.2	277.4	272.7	266.2	257.9	247.8	235.9
-77.5°	119.4	120.7	121.5	121.8	121.5	120.7	119.4	117.5	115.0	112.1	108.6
-80°	65.0	65.3	65.5	65.6	65.5	65.3	65.0	64.4	63.8	63.0	62.1
-82.5°	46.3	46.6	46.7	46.8	46.7	46.6	46.3	45.9	45.5	44.9	44.2
-85°	27.9	28.0	28.1	28.1	28.1	28.0	27.9	27.8	27.7	27.5	27.2
-87.5°	18.5	18.6	18.7	18.7	18.7	18.6	18.5	18.4	18.3	18.1	17.8
-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):**

	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°	17.6	17.3	16.9	16.6	16.2	15.8	15.3	14.8	14.3	13.8	13.2
85°	27.0	26.7	26.3	26.0	25.6	25.1	24.7	24.2	23.7	23.2	22.6
82.5°	43.4	42.5	41.5	40.4	39.2	38.0	36.6	35.2	33.6	32.0	30.3
80°	61.0	59.8	58.5	57.0	55.4	53.7	51.9	49.9	47.9	45.7	43.5
77.5°	104.6	100.1	95.1	89.6	83.7	77.2	70.4	64.8	62.2	59.5	56.6
75°	222.2	206.8	189.7	171.0	150.6	128.7	116.0	107.2	97.9	88.1	77.9
72.5°	429.4	399.6	366.6	330.4	291.1	261.4	234.0	204.8	173.9	141.5	116.8
70°	707.0	664.1	616.6	564.5	515.0	466.3	414.4	359.2	300.9	256.0	217.1
67.5°	1036.7	979.7	916.5	850.8	786.7	717.8	644.3	566.2	495.8	426.7	354.5
65°	1413.9	1340.5	1259.2	1181.2	1097.1	1006.8	910.5	817.6	725.7	629.3	531.6
62.5°	1832.7	1744.1	1649.9	1551.1	1444.2	1329.4	1213.2	1100.2	981.3	858.7	747.7
60°	2278.0	2176.3	2067.9	1949.7	1821.9	1685.6	1551.1	1408.9	1259.2	1122.1	979.7
57.5°	2733.6	2623.1	2499.7	2365.1	2219.6	2067.9	1908.5	1740.1	1573.5	1402.9	1229.3
55°	3173.1	3060.1	2927.9	2783.8	2627.5	2458.0	2278.0	2091.2	1899.4	1699.1	1507.0
52.5°	3480.5	3390.1	3290.6	3182.2	3024.4	2844.3	2652.9	2447.7	2232.8	2014.8	1790.9
50°	3753.8	3666.5	3570.6	3462.7	3336.5	3201.9	3015.7	2799.2	2570.8	2330.4	2084.7
47.5°	4223.9	4046.8	3852.1	3712.7	3591.9	3459.2	3306.2	3140.2	2897.8	2645.4	2379.6
45°	6435.9	5357.0	4324.5	4097.1	3853.4	3688.0	3542.4	3376.7	3197.8	2947.5	2670.4
42.5°	8812.2	7937.1	6799.7	5423.3	4285.0	4008.0	3753.1	3590.5	3412.3	3215.3	2947.5
40°	10196.6	9918.1	8922.6	7813.1	6334.1	4669.0	4102.0	3785.9	3606.7	3412.3	3197.8
37.5°	10772.4	10504.0	10177.5	9642.6	8378.9	6888.2	5031.3	4133.5	3785.9	3590.5	3376.7
35°	11245.3	11003.8	10709.6	10354.0	9956.3	8665.0	7074.3	5031.3	4102.0	3753.1	3542.4
32.5°	11550.9	11370.2	11161.7	10825.1	10443.4	9999.8	8665.0	6888.2	4669.0	4008.0	3688.0
30°	11665.5	11595.8	11446.7	11224.6	10864.0	10443.4	9956.3	8378.9	6334.1	4285.0	3853.4
27.5°	11726.3	11694.2	11614.9	11472.5	11224.6	10825.1	10354.0	9642.6	7813.1	5423.3	4097.1
25°	11943.4	11735.2	11698.4	11614.9	11446.7	11161.7	10709.6	10177.5	8922.6	6799.7	4324.5
22.5°	12462.6	11988.8	11735.2	11694.2	11595.8	11370.2	11003.8	10504.0	9918.1	7937.1	5357.0
20°	13678.6	12462.6	11943.4	11726.3	11665.5	11550.9	11245.3	10772.4	10196.6	8812.2	6435.9
17.5°	16357.9	13519.0	12251.8	11809.3	11708.8	11617.2	11397.6	11000.4	10447.9	9599.7	7404.8
15°	20317.9	15378.2	13048.5	12066.5	11733.3	11669.9	11533.2	11200.4	10660.0	10019.2	8075.6
12.5°	29649.1	17880.4	13830.9	12292.1	11798.6	11703.0	11593.9	11308.5	10820.8	10195.6	8625.8
10°	39322.6	22353.9	15413.9	12894.5	11972.4	11719.4	11629.1	11398.5	10954.4	10341.9	9081.3
7.5°	52615.9	28235.9	16972.9	13377.7	12110.8	11732.5	11657.0	11469.5	11059.7	10456.9	9439.1
5°	62492.1	32572.2	18115.7	13730.3	12211.5	11741.9	11677.1	11520.8	11135.6	10539.8	9696.6
2.5°	68586.3	35232.6	18813.7	13945.0	12272.6	11747.7	11689.3	11551.8	11181.5	10589.8	9851.9
0°	<b>70647.6</b>	<b>36129.6</b>	<b>19048.6</b>	<b>14017.1</b>	<b>12293.1</b>	<b>11749.6</b>	<b>11693.4</b>	<b>11562.2</b>	<b>11196.8</b>	<b>10606.5</b>	<b>9903.8</b>
-2.5°	68586.3	35232.6	18813.7	13945.0	12272.6	11747.7	11689.3	11551.8	11181.5	10589.8	9851.9
-5°	62492.1	32572.2	18115.7	13730.3	12211.5	11741.9	11677.1	11520.8	11135.6	10539.8	9696.6
-7.5°	52615.9	28235.9	16972.9	13377.7	12110.8	11732.5	11657.0	11469.5	11059.7	10456.9	9439.1
-10°	39322.6	22353.9	15413.9	12894.5	11972.4	11719.4	11629.1	11398.5	10954.4	10341.9	9081.3
-12.5°	29649.1	17880.4	13830.9	12292.1	11798.6	11703.0	11593.9	11308.5	10820.8	10195.6	8625.8
-15°	20317.9	15378.2	13048.5	12066.5	11733.3	11669.9	11533.2	11200.4	10660.0	10019.2	8075.6
-17.5°	16357.9	13519.0	12251.8	11809.3	11708.8	11617.2	11397.6	11000.4	10447.9	9599.7	7404.8
-20°	13678.6	12462.6	11943.4	11726.3	11665.5	11550.9	11245.3	10772.4	10196.6	8812.2	6435.9



REPORT NUMBER: P699870 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-1S-S

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	12462.6	11988.8	11735.2	11694.2	11595.8	11370.2	11003.8	10504.0	9918.1	7937.1	5357.0
-25°	11943.4	11735.2	11698.4	11614.9	11446.7	11161.7	10709.6	10177.5	8922.6	6799.7	4324.5
-27.5°	11726.3	11694.2	11614.9	11472.5	11224.6	10825.1	10354.0	9642.6	7813.1	5423.3	4097.1
-30°	11665.5	11595.8	11446.7	11224.6	10864.0	10443.4	9956.3	8378.9	6334.1	4285.0	3853.4
-32.5°	11550.9	11370.2	11161.7	10825.1	10443.4	9999.8	8665.0	6888.2	4669.0	4008.0	3688.0
-35°	11245.3	11003.8	10709.6	10354.0	9956.3	8665.0	7074.3	5031.3	4102.0	3753.1	3542.4
-37.5°	10772.4	10504.0	10177.5	9642.6	8378.9	6888.2	5031.3	4133.5	3785.9	3590.5	3376.7
-40°	10196.6	9918.1	8922.6	7813.1	6334.1	4669.0	4102.0	3785.9	3606.7	3412.3	3197.8
-42.5°	8812.2	7937.1	6799.7	5423.3	4285.0	4008.0	3753.1	3590.5	3412.3	3215.3	2947.5
-45°	6435.9	5357.0	4324.5	4097.1	3853.4	3688.0	3542.4	3376.7	3197.8	2947.5	2670.4
-47.5°	4223.9	4046.8	3852.1	3712.7	3591.9	3459.2	3306.2	3140.2	2897.8	2645.4	2379.6
-50°	3753.8	3666.5	3570.6	3462.7	3336.5	3201.9	3015.7	2799.2	2570.8	2330.4	2084.7
-52.5°	3480.5	3390.1	3290.6	3182.2	3024.4	2844.3	2652.9	2447.7	2232.8	2014.8	1790.9
-55°	3173.1	3060.1	2927.9	2783.8	2627.5	2458.0	2278.0	2091.2	1899.4	1699.1	1507.0
-57.5°	2733.6	2623.1	2499.7	2365.1	2219.6	2067.9	1908.5	1740.1	1573.5	1402.9	1229.3
-60°	2278.0	2176.3	2067.9	1949.7	1821.9	1685.6	1551.1	1408.9	1259.2	1122.1	979.7
-62.5°	1832.7	1744.1	1649.9	1551.1	1444.2	1329.4	1213.2	1100.2	981.3	858.7	747.7
-65°	1413.9	1340.5	1259.2	1181.2	1097.1	1006.8	910.5	817.6	725.7	629.3	531.6
-67.5°	1036.7	979.7	916.5	850.8	786.7	717.8	644.3	566.2	495.8	426.7	354.5
-70°	707.0	664.1	616.6	564.5	515.0	466.3	414.4	359.2	300.9	256.0	217.1
-72.5°	429.4	399.6	366.6	330.4	291.1	261.4	234.0	204.8	173.9	141.5	116.8
-75°	222.2	206.8	189.7	171.0	150.6	128.7	116.0	107.2	97.9	88.1	77.9
-77.5°	104.6	100.1	95.1	89.6	83.7	77.2	70.4	64.8	62.2	59.5	56.6
-80°	61.0	59.8	58.5	57.0	55.4	53.7	51.9	49.9	47.9	45.7	43.5
-82.5°	43.4	42.5	41.5	40.4	39.2	38.0	36.6	35.2	33.6	32.0	30.3
-85°	27.0	26.7	26.3	26.0	25.6	25.1	24.7	24.2	23.7	23.2	22.6
-87.5°	17.6	17.3	16.9	16.6	16.2	15.8	15.3	14.8	14.3	13.8	13.2
-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: P699870 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-1S-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°	12.6	12.0	11.4	10.7	10.0	9.3	8.6	7.9	7.2	6.4	5.6
85°	22.0	21.4	20.7	20.1	19.4	18.7	17.3	15.8	14.3	12.8	11.2
82.5°	28.5	27.4	26.4	25.4	24.4	23.4	22.3	21.2	20.1	18.9	16.8
80°	41.1	38.6	36.1	33.5	30.7	28.0	26.6	25.1	23.6	22.1	20.6
77.5°	53.6	50.5	47.3	44.0	40.7	37.2	33.6	30.0	27.2	25.3	23.3
75°	67.2	62.4	58.6	54.6	50.5	46.3	42.0	37.7	33.2	28.7	26.1
72.5°	104.3	91.3	77.9	65.1	60.3	55.4	50.4	45.3	40.1	34.9	29.5
70°	176.6	134.5	111.0	95.1	78.8	64.4	58.7	52.9	47.0	40.9	34.9
67.5°	280.0	232.7	183.7	133.2	107.5	88.8	69.6	60.4	53.7	47.0	40.1
65°	447.9	361.1	275.3	219.2	161.6	115.0	93.8	72.1	60.4	52.9	45.3
62.5°	632.2	518.8	420.2	318.7	240.6	175.9	117.5	93.8	69.6	58.7	50.4
60°	837.6	707.0	572.4	455.9	342.4	247.8	175.9	115.0	88.8	64.4	55.4
57.5°	1068.7	902.8	752.3	602.4	467.8	342.4	240.6	161.6	107.5	78.8	60.3
55°	1308.2	1122.6	938.5	767.4	602.4	455.9	318.7	219.2	133.2	95.1	65.1
52.5°	1569.9	1349.9	1140.6	938.5	752.3	572.4	420.2	275.3	183.7	111.0	77.9
50°	1837.0	1591.0	1349.9	1122.6	902.8	707.0	518.8	361.1	232.7	134.5	91.3
47.5°	2108.1	1837.0	1569.9	1308.2	1068.7	837.6	632.2	447.9	280.0	176.6	104.3
45°	2379.6	2084.7	1790.9	1507.0	1229.3	979.7	747.7	531.6	354.5	217.1	116.8
42.5°	2645.4	2330.4	2014.8	1699.1	1402.9	1122.1	858.7	629.3	426.7	256.0	141.5
40°	2897.8	2570.8	2232.8	1899.4	1573.5	1259.2	981.3	725.7	495.8	300.9	173.9
37.5°	3140.2	2799.2	2447.7	2091.2	1740.1	1408.9	1100.2	817.6	566.2	359.2	204.8
35°	3306.2	3015.7	2652.9	2278.0	1908.5	1551.1	1213.2	910.5	644.3	414.4	234.0
32.5°	3459.2	3201.9	2844.3	2458.0	2067.9	1685.6	1329.4	1006.8	717.8	466.3	261.4
30°	3591.9	3336.5	3024.4	2627.5	2219.6	1821.9	1444.2	1097.1	786.7	515.0	291.1
27.5°	3712.7	3462.7	3182.2	2783.8	2365.1	1949.7	1551.1	1181.2	850.8	564.5	330.4
25°	3852.1	3570.6	3290.6	2927.9	2499.7	2067.9	1649.9	1259.2	916.5	616.6	366.6
22.5°	4046.8	3666.5	3390.1	3060.1	2623.1	2176.3	1744.1	1340.5	979.7	664.1	399.6
20°	4223.9	3753.8	3480.5	3173.1	2733.6	2278.0	1832.7	1413.9	1036.7	707.0	429.4
17.5°	4502.4	3864.3	3553.9	3247.1	2831.4	2368.6	1911.5	1479.1	1087.4	745.1	455.9
15°	5288.8	3992.8	3616.8	3312.0	2916.9	2447.7	1980.4	1536.1	1131.6	778.4	478.9
12.5°	5962.6	4102.7	3670.6	3367.3	2989.8	2515.2	2039.1	1584.6	1169.2	806.6	498.5
10°	6519.8	4193.5	3715.0	3413.0	3049.9	2570.8	2087.4	1624.5	1200.2	829.9	514.6
7.5°	6956.9	4264.7	3749.7	3448.7	3096.8	2614.3	2125.1	1655.7	1224.3	848.0	527.2
5°	7271.2	4315.8	3774.7	3474.3	3130.6	2645.4	2152.1	1678.0	1241.6	861.0	536.2
2.5°	7460.6	4346.6	3789.7	3489.7	3150.8	2664.1	2168.4	1691.4	1252.0	868.8	541.6
0°	7523.9	4356.9	3794.7	3494.9	3157.6	2670.4	2173.8	1695.9	1255.5	871.4	543.4
-2.5°	7460.6	4346.6	3789.7	3489.7	3150.8	2664.1	2168.4	1691.4	1252.0	868.8	541.6
-5°	7271.2	4315.8	3774.7	3474.3	3130.6	2645.4	2152.1	1678.0	1241.6	861.0	536.2
-7.5°	6956.9	4264.7	3749.7	3448.7	3096.8	2614.3	2125.1	1655.7	1224.3	848.0	527.2
-10°	6519.8	4193.5	3715.0	3413.0	3049.9	2570.8	2087.4	1624.5	1200.2	829.9	514.6
-12.5°	5962.6	4102.7	3670.6	3367.3	2989.8	2515.2	2039.1	1584.6	1169.2	806.6	498.5
-15°	5288.8	3992.8	3616.8	3312.0	2916.9	2447.7	1980.4	1536.1	1131.6	778.4	478.9
-17.5°	4502.4	3864.3	3553.9	3247.1	2831.4	2368.6	1911.5	1479.1	1087.4	745.1	455.9
-20°	4223.9	3753.8	3480.5	3173.1	2733.6	2278.0	1832.7	1413.9	1036.7	707.0	429.4



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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°	4046.8	3666.5	3390.1	3060.1	2623.1	2176.3	1744.1	1340.5	979.7	664.1	399.6
-25°	3852.1	3570.6	3290.6	2927.9	2499.7	2067.9	1649.9	1259.2	916.5	616.6	366.6
-27.5°	3712.7	3462.7	3182.2	2783.8	2365.1	1949.7	1551.1	1181.2	850.8	564.5	330.4
-30°	3591.9	3336.5	3024.4	2627.5	2219.6	1821.9	1444.2	1097.1	786.7	515.0	291.1
-32.5°	3459.2	3201.9	2844.3	2458.0	2067.9	1685.6	1329.4	1006.8	717.8	466.3	261.4
-35°	3306.2	3015.7	2652.9	2278.0	1908.5	1551.1	1213.2	910.5	644.3	414.4	234.0
-37.5°	3140.2	2799.2	2447.7	2091.2	1740.1	1408.9	1100.2	817.6	566.2	359.2	204.8
-40°	2897.8	2570.8	2232.8	1899.4	1573.5	1259.2	981.3	725.7	495.8	300.9	173.9
-42.5°	2645.4	2330.4	2014.8	1699.1	1402.9	1122.1	858.7	629.3	426.7	256.0	141.5
-45°	2379.6	2084.7	1790.9	1507.0	1229.3	979.7	747.7	531.6	354.5	217.1	116.8
-47.5°	2108.1	1837.0	1569.9	1308.2	1068.7	837.6	632.2	447.9	280.0	176.6	104.3
-50°	1837.0	1591.0	1349.9	1122.6	902.8	707.0	518.8	361.1	232.7	134.5	91.3
-52.5°	1569.9	1349.9	1140.6	938.5	752.3	572.4	420.2	275.3	183.7	111.0	77.9
-55°	1308.2	1122.6	938.5	767.4	602.4	455.9	318.7	219.2	133.2	95.1	65.1
-57.5°	1068.7	902.8	752.3	602.4	467.8	342.4	240.6	161.6	107.5	78.8	60.3
-60°	837.6	707.0	572.4	455.9	342.4	247.8	175.9	115.0	88.8	64.4	55.4
-62.5°	632.2	518.8	420.2	318.7	240.6	175.9	117.5	93.8	69.6	58.7	50.4
-65°	447.9	361.1	275.3	219.2	161.6	115.0	93.8	72.1	60.4	52.9	45.3
-67.5°	280.0	232.7	183.7	133.2	107.5	88.8	69.6	60.4	53.7	47.0	40.1
-70°	176.6	134.5	111.0	95.1	78.8	64.4	58.7	52.9	47.0	40.9	34.9
-72.5°	104.3	91.3	77.9	65.1	60.3	55.4	50.4	45.3	40.1	34.9	29.5
-75°	67.2	62.4	58.6	54.6	50.5	46.3	42.0	37.7	33.2	28.7	26.1
-77.5°	53.6	50.5	47.3	44.0	40.7	37.2	33.6	30.0	27.2	25.3	23.3
-80°	41.1	38.6	36.1	33.5	30.7	28.0	26.6	25.1	23.6	22.1	20.6
-82.5°	28.5	27.4	26.4	25.4	24.4	23.4	22.3	21.2	20.1	18.9	16.8
-85°	22.0	21.4	20.7	20.1	19.4	18.7	17.3	15.8	14.3	12.8	11.2
-87.5°	12.6	12.0	11.4	10.7	10.0	9.3	8.6	7.9	7.2	6.4	5.6
-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°	4.8	4.0	3.2	2.4	1.6	0.8	0.0
85°	9.7	8.1	6.5	4.9	3.3	1.6	0.0
82.5°	14.5	12.1	9.7	7.3	4.9	2.4	0.0
80°	19.0	16.1	12.9	9.7	6.5	3.2	0.0
77.5°	21.4	19.4	16.1	12.1	8.1	4.0	0.0
75°	23.7	21.4	19.0	14.5	9.7	4.8	0.0
72.5°	26.1	23.3	20.6	16.8	11.2	5.6	0.0
70°	28.7	25.3	22.1	18.9	12.8	6.4	0.0
67.5°	33.2	27.2	23.6	20.1	14.3	7.2	0.0
65°	37.7	30.0	25.1	21.2	15.8	7.9	0.0
62.5°	42.0	33.6	26.6	22.3	17.3	8.6	0.0
60°	46.3	37.2	28.0	23.4	18.7	9.3	0.0
57.5°	50.5	40.7	30.7	24.4	19.4	10.0	0.0
55°	54.6	44.0	33.5	25.4	20.1	10.7	0.0
52.5°	58.6	47.3	36.1	26.4	20.7	11.4	0.0
50°	62.4	50.5	38.6	27.4	21.4	12.0	0.0
47.5°	67.2	53.6	41.1	28.5	22.0	12.6	0.0
45°	77.9	56.6	43.5	30.3	22.6	13.2	0.0
42.5°	88.1	59.5	45.7	32.0	23.2	13.8	0.0
40°	97.9	62.2	47.9	33.6	23.7	14.3	0.0
37.5°	107.2	64.8	49.9	35.2	24.2	14.8	0.0
35°	116.0	70.4	51.9	36.6	24.7	15.3	0.0
32.5°	128.7	77.2	53.7	38.0	25.1	15.8	0.0
30°	150.6	83.7	55.4	39.2	25.6	16.2	0.0
27.5°	171.0	89.6	57.0	40.4	26.0	16.6	0.0
25°	189.7	95.1	58.5	41.5	26.3	16.9	0.0
22.5°	206.8	100.1	59.8	42.5	26.7	17.3	0.0
20°	222.2	104.6	61.0	43.4	27.0	17.6	0.0
17.5°	235.9	108.6	62.1	44.2	27.2	17.8	0.0
15°	247.8	112.1	63.0	44.9	27.5	18.1	0.0
12.5°	257.9	115.0	63.8	45.5	27.7	18.3	0.0
10°	266.2	117.5	64.4	45.9	27.8	18.4	0.0
7.5°	272.7	119.4	65.0	46.3	27.9	18.5	0.0
5°	277.4	120.7	65.3	46.6	28.0	18.6	0.0
2.5°	280.2	121.5	65.5	46.7	28.1	18.7	0.0
0°	281.1	121.8	65.6	46.8	28.1	18.7	0.0
-2.5°	280.2	121.5	65.5	46.7	28.1	18.7	0.0
-5°	277.4	120.7	65.3	46.6	28.0	18.6	0.0
-7.5°	272.7	119.4	65.0	46.3	27.9	18.5	0.0
-10°	266.2	117.5	64.4	45.9	27.8	18.4	0.0
-12.5°	257.9	115.0	63.8	45.5	27.7	18.3	0.0
-15°	247.8	112.1	63.0	44.9	27.5	18.1	0.0
-17.5°	235.9	108.6	62.1	44.2	27.2	17.8	0.0
-20°	222.2	104.6	61.0	43.4	27.0	17.6	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	206.8	100.1	59.8	42.5	26.7	17.3	0.0
-25°	189.7	95.1	58.5	41.5	26.3	16.9	0.0
-27.5°	171.0	89.6	57.0	40.4	26.0	16.6	0.0
-30°	150.6	83.7	55.4	39.2	25.6	16.2	0.0
-32.5°	128.7	77.2	53.7	38.0	25.1	15.8	0.0
-35°	116.0	70.4	51.9	36.6	24.7	15.3	0.0
-37.5°	107.2	64.8	49.9	35.2	24.2	14.8	0.0
-40°	97.9	62.2	47.9	33.6	23.7	14.3	0.0
-42.5°	88.1	59.5	45.7	32.0	23.2	13.8	0.0
-45°	77.9	56.6	43.5	30.3	22.6	13.2	0.0
-47.5°	67.2	53.6	41.1	28.5	22.0	12.6	0.0
-50°	62.4	50.5	38.6	27.4	21.4	12.0	0.0
-52.5°	58.6	47.3	36.1	26.4	20.7	11.4	0.0
-55°	54.6	44.0	33.5	25.4	20.1	10.7	0.0
-57.5°	50.5	40.7	30.7	24.4	19.4	10.0	0.0
-60°	46.3	37.2	28.0	23.4	18.7	9.3	0.0
-62.5°	42.0	33.6	26.6	22.3	17.3	8.6	0.0
-65°	37.7	30.0	25.1	21.2	15.8	7.9	0.0
-67.5°	33.2	27.2	23.6	20.1	14.3	7.2	0.0
-70°	28.7	25.3	22.1	18.9	12.8	6.4	0.0
-72.5°	26.1	23.3	20.6	16.8	11.2	5.6	0.0
-75°	23.7	21.4	19.0	14.5	9.7	4.8	0.0
-77.5°	21.4	19.4	16.1	12.1	8.1	4.0	0.0
-80°	19.0	16.1	12.9	9.7	6.5	3.2	0.0
-82.5°	14.5	12.1	9.7	7.3	4.9	2.4	0.0
-85°	9.7	8.1	6.5	4.9	3.3	1.6	0.0
-87.5°	4.8	4.0	3.2	2.4	1.6	0.8	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)