

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: P699952 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200R-40-80-3R-S**

Issue Date: 8/10/2023

**Test Information**

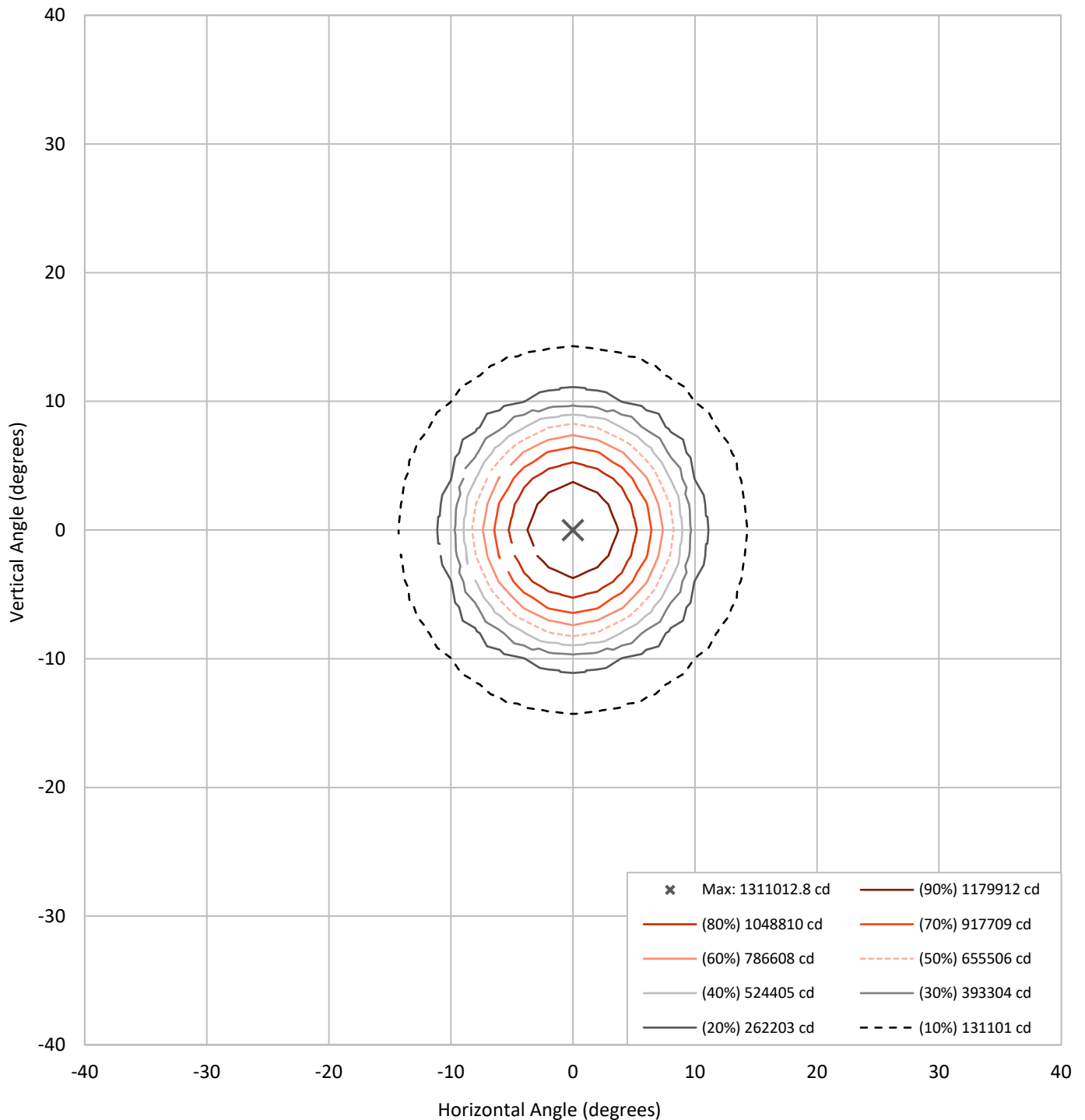
Test Method: LM-79-08  
Report Number: P699952 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-50)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-LS-16-1200R-40-80-3R-S  
Description: EPHEBUS LUMASPORT 16 LUMINAIRE  
(16) 4000K, 80 CRI LEDS AND 3R BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	166466.6 lumens	Max Intensity:	1311012.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	129.2 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	16.5°H x 16.5°V	Field Angle (10%):	28.4°H x 28.4°V
Beam Lumens:	60871.5 lumens	Field Lumens:	98953.4 lumens
Beam Efficiency:	36.6%	Field Efficiency:	59.4%
Input Watts (W):	1288.4		
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





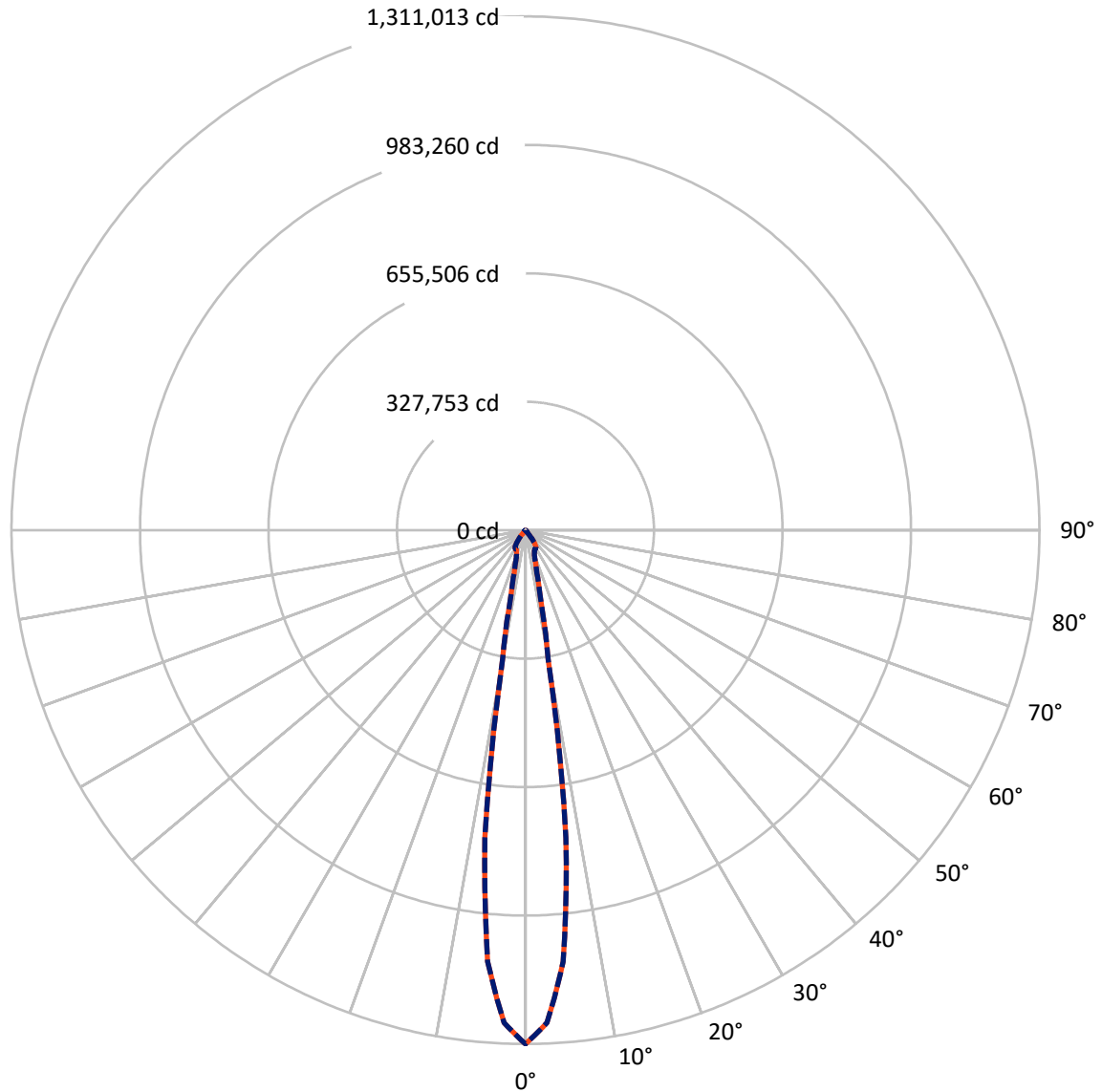
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### Lumen Table

90	0.1	0.8		2.0		3.3		3.9		3.3		2.0		0.8		0.1			
80	0.1	0.8		2.0		3.3		3.9		3.3		2.0		0.8		0.1			
70	0.4	0.4	0.8	1.4	2.2	3.1	4.0	4.5	4.5	4.0	3.1	2.2	1.4	0.8	0.4	0.4			
60		0.6	1.3	2.8	5.5	10.2	15.2	18.0	18.0	15.2	10.2	5.5	2.8	1.3	0.6				
50	0.6	0.8	2.3	6.4	15.8	25.7	52.6	87.6	87.6	52.6	25.7	15.8	6.4	2.3	0.8	0.6			
40		1.1	3.9	13.7	33.9	217.0	692.7	1033.5	1033.5	692.7	217.0	33.9	13.7	3.9	1.1				
30	0.8	1.5	6.6	20.2	198.3	1010.5	1531.3	1698.8	1698.8	1531.3	1010.5	198.3	20.2	6.6	1.5	0.8			
20		1.8	9.2	39.5	596.4	1437.8	1960.8	3532.4	3532.4	1960.8	1437.8	596.4	39.5	9.2	1.8				
10	0.9	2.0	10.6	64.3	860.7	1547.3	3439.3	21379.6	21379.6	3439.3	1547.3	860.7	64.3	10.6	2.0	0.9			
0		2.0	10.6	64.3	860.7	1547.3	3439.3	21379.6	21379.6	3439.3	1547.3	860.7	64.3	10.6	2.0				
-10	0.8	1.8	9.2	39.5	596.4	1437.8	1960.8	3532.4	3532.4	1960.8	1437.8	596.4	39.5	9.2	1.8	0.8			
-20		1.5	6.6	20.2	198.3	1010.5	1531.3	1698.8	1698.8	1531.3	1010.5	198.3	20.2	6.6	1.5				
-30	0.6	1.1	3.9	13.7	33.9	217.0	692.7	1033.5	1033.5	692.7	217.0	33.9	13.7	3.9	1.1	0.6			
-40		0.8	2.3	6.4	15.8	25.7	52.6	87.6	87.6	52.6	25.7	15.8	6.4	2.3	0.8				
-50	0.4	0.6	1.3	2.8	5.5	10.2	15.2	18.0	18.0	15.2	10.2	5.5	2.8	1.3	0.6	0.4			
-60		0.4	0.8	1.4	2.2	3.1	4.0	4.5	4.5	4.0	3.1	2.2	1.4	0.8	0.4				
-70	0.1	0.8		2.0		3.3		3.9		3.3		2.0		0.8		0.1			
-80		0.8		2.0		3.3		3.9		3.3		2.0		0.8					
-90	0.1	0.8		2.0		3.3		3.9		3.3		2.0		0.8		0.1			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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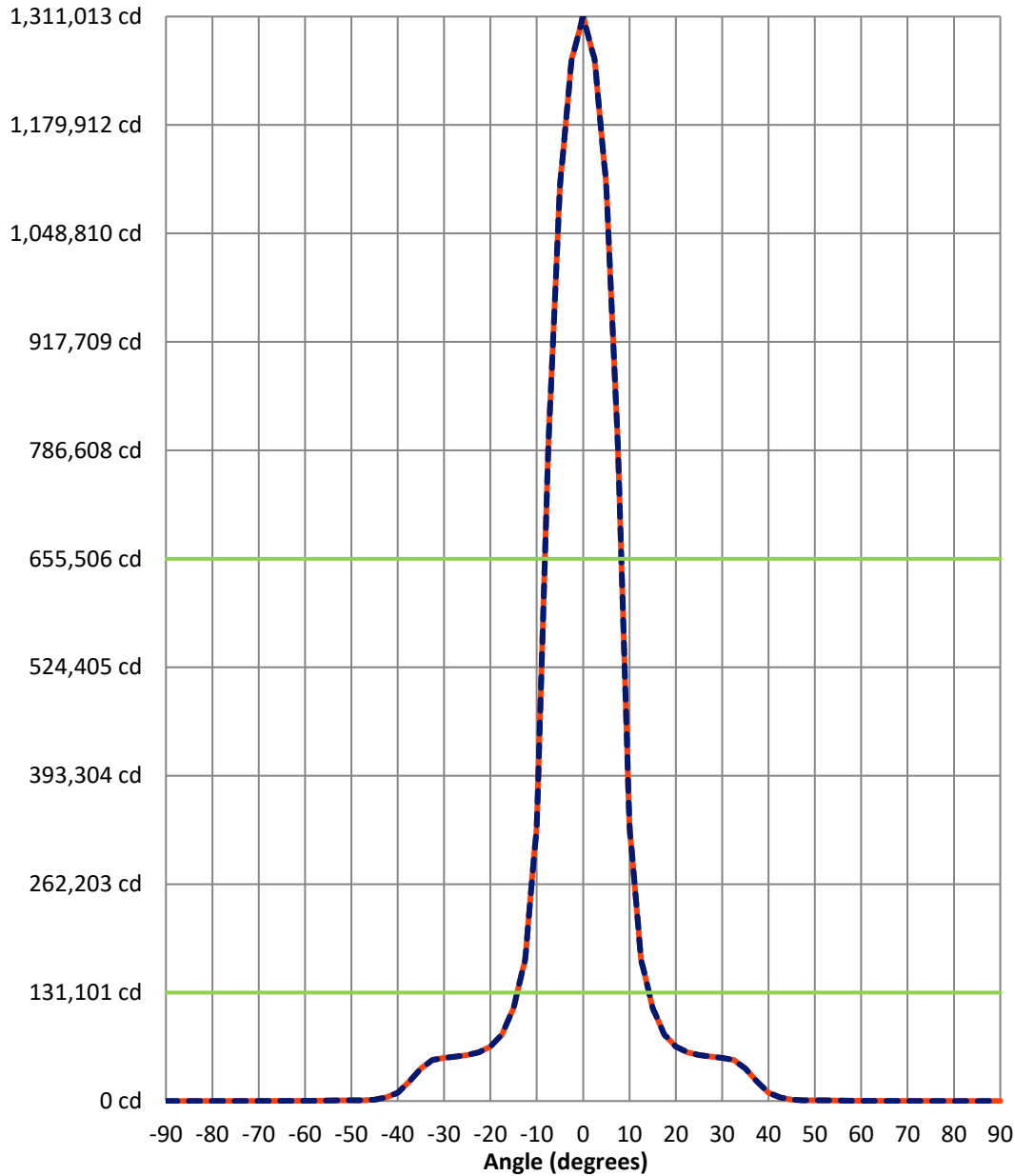
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 16.5°  
 V Angle: 16.5°  
 Lumens: 60871.5  
 Efficiency: 36.6%

**Field:**  
 H Angle: 28.4°  
 V Angle: 28.4°  
 Lumens: 98953.4  
 Efficiency: 59.4%

**Spill:**  
 Lumens: 67513.2  
 Efficiency: 40.6%

- 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	0.4	0.8	1.2	1.6	2.1	2.5	2.9	3.2	3.6	4.0
85°	0.0	0.8	1.7	2.5	3.3	4.1	4.9	5.7	6.5	7.3	8.0
82.5°	0.0	1.2	2.5	3.7	4.9	6.2	7.4	8.5	9.5	9.5	9.5
80°	0.0	1.6	3.3	4.9	6.6	8.2	9.5	9.5	9.5	9.5	9.5
77.5°	0.0	2.1	4.1	6.2	8.2	9.5	9.5	9.5	9.5	9.5	10.4
75°	0.0	2.5	4.9	7.4	9.5	9.5	9.5	9.5	9.8	12.1	14.4
72.5°	0.0	2.9	5.7	8.5	9.5	9.5	9.5	10.2	12.9	15.6	18.2
70°	0.0	3.2	6.5	9.5	9.5	9.5	9.8	12.9	16.0	19.1	22.1
67.5°	0.0	3.6	7.3	9.5	9.5	9.5	12.1	15.6	19.1	22.5	25.9
65°	0.0	4.0	8.0	9.5	9.5	10.4	14.4	18.2	22.1	25.9	29.6
62.5°	0.0	4.4	8.8	9.5	9.5	12.3	16.6	20.8	25.0	29.2	33.3
60°	0.0	4.7	9.5	9.5	9.5	14.1	18.8	23.4	27.9	32.4	36.9
57.5°	0.0	5.1	9.5	9.5	10.8	15.9	20.9	25.8	30.7	35.6	40.4
55°	0.0	5.4	9.5	9.5	12.2	17.6	22.9	28.2	33.5	38.7	43.8
52.5°	0.0	5.8	9.5	9.5	13.6	19.3	24.9	30.6	36.2	41.7	47.2
50°	0.0	6.1	9.5	9.5	14.9	20.9	26.9	32.9	38.8	44.6	53.3
47.5°	0.0	6.4	9.5	9.7	16.1	22.5	28.8	35.0	41.3	47.4	59.6
45°	0.0	6.7	9.5	10.6	17.3	24.0	30.6	37.2	43.7	52.8	65.6
42.5°	0.0	7.0	9.5	11.5	18.5	25.4	32.3	39.2	46.0	58.1	69.0
40°	0.0	7.3	9.5	12.3	19.5	26.8	34.0	41.1	48.9	63.1	71.8
37.5°	0.0	7.5	9.5	13.1	20.6	28.1	35.5	42.9	53.2	67.2	74.4
35°	0.0	7.8	9.5	13.8	21.6	29.3	37.0	44.7	57.2	69.4	78.9
32.5°	0.0	8.0	9.5	14.5	22.5	30.5	38.4	46.3	60.9	71.6	86.0
30°	0.0	8.2	9.5	15.2	23.4	31.6	39.7	48.2	64.4	73.5	92.7
27.5°	0.0	8.4	9.5	15.8	24.2	32.6	40.9	51.1	67.1	75.4	99.0
25°	0.0	8.6	9.5	16.3	24.9	33.5	42.1	53.7	68.6	79.3	104.9
22.5°	0.0	8.8	9.5	16.8	25.6	34.3	43.1	56.1	70.0	84.0	113.6
20°	0.0	8.9	9.5	17.3	26.2	35.1	44.0	58.2	71.2	88.3	121.5
17.5°	0.0	9.1	9.5	17.7	26.7	35.8	44.8	60.2	72.3	92.0	128.6
15°	0.0	9.2	9.5	18.0	27.2	36.4	45.5	61.8	73.3	95.3	134.7
12.5°	0.0	9.3	9.5	18.3	27.6	36.9	46.1	63.2	74.1	98.1	139.9
10°	0.0	9.4	9.5	18.6	27.9	37.3	46.6	64.4	74.8	100.4	144.2
7.5°	0.0	9.4	9.5	18.8	28.2	37.6	47.0	65.3	75.3	102.2	147.6
5°	0.0	9.5	9.5	18.9	28.4	37.8	47.3	66.0	75.7	103.5	150.0
2.5°	0.0	9.5	9.5	19.0	28.5	38.0	47.4	66.4	75.9	104.2	151.4
0°	0.0	9.5	9.5	19.0	28.5	38.0	47.5	66.5	76.0	104.5	151.9
-2.5°	0.0	9.5	9.5	19.0	28.5	38.0	47.4	66.4	75.9	104.2	151.4
-5°	0.0	9.5	9.5	18.9	28.4	37.8	47.3	66.0	75.7	103.5	150.0
-7.5°	0.0	9.4	9.5	18.8	28.2	37.6	47.0	65.3	75.3	102.2	147.6
-10°	0.0	9.4	9.5	18.6	27.9	37.3	46.6	64.4	74.8	100.4	144.2
-12.5°	0.0	9.3	9.5	18.3	27.6	36.9	46.1	63.2	74.1	98.1	139.9
-15°	0.0	9.2	9.5	18.0	27.2	36.4	45.5	61.8	73.3	95.3	134.7
-17.5°	0.0	9.1	9.5	17.7	26.7	35.8	44.8	60.2	72.3	92.0	128.6
-20°	0.0	8.9	9.5	17.3	26.2	35.1	44.0	58.2	71.2	88.3	121.5



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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	8.8	9.5	16.8	25.6	34.3	43.1	56.1	70.0	84.0	113.6
-25°	0.0	8.6	9.5	16.3	24.9	33.5	42.1	53.7	68.6	79.3	104.9
-27.5°	0.0	8.4	9.5	15.8	24.2	32.6	40.9	51.1	67.1	75.4	99.0
-30°	0.0	8.2	9.5	15.2	23.4	31.6	39.7	48.2	64.4	73.5	92.7
-32.5°	0.0	8.0	9.5	14.5	22.5	30.5	38.4	46.3	60.9	71.6	86.0
-35°	0.0	7.8	9.5	13.8	21.6	29.3	37.0	44.7	57.2	69.4	78.9
-37.5°	0.0	7.5	9.5	13.1	20.6	28.1	35.5	42.9	53.2	67.2	74.4
-40°	0.0	7.3	9.5	12.3	19.5	26.8	34.0	41.1	48.9	63.1	71.8
-42.5°	0.0	7.0	9.5	11.5	18.5	25.4	32.3	39.2	46.0	58.1	69.0
-45°	0.0	6.7	9.5	10.6	17.3	24.0	30.6	37.2	43.7	52.8	65.6
-47.5°	0.0	6.4	9.5	9.7	16.1	22.5	28.8	35.0	41.3	47.4	59.6
-50°	0.0	6.1	9.5	9.5	14.9	20.9	26.9	32.9	38.8	44.6	53.3
-52.5°	0.0	5.8	9.5	9.5	13.6	19.3	24.9	30.6	36.2	41.7	47.2
-55°	0.0	5.4	9.5	9.5	12.2	17.6	22.9	28.2	33.5	38.7	43.8
-57.5°	0.0	5.1	9.5	9.5	10.8	15.9	20.9	25.8	30.7	35.6	40.4
-60°	0.0	4.7	9.5	9.5	9.5	14.1	18.8	23.4	27.9	32.4	36.9
-62.5°	0.0	4.4	8.8	9.5	9.5	12.3	16.6	20.8	25.0	29.2	33.3
-65°	0.0	4.0	8.0	9.5	9.5	10.4	14.4	18.2	22.1	25.9	29.6
-67.5°	0.0	3.6	7.3	9.5	9.5	9.5	12.1	15.6	19.1	22.5	25.9
-70°	0.0	3.2	6.5	9.5	9.5	9.5	9.8	12.9	16.0	19.1	22.1
-72.5°	0.0	2.9	5.7	8.5	9.5	9.5	9.5	10.2	12.9	15.6	18.2
-75°	0.0	2.5	4.9	7.4	9.5	9.5	9.5	9.5	9.8	12.1	14.4
-77.5°	0.0	2.1	4.1	6.2	8.2	9.5	9.5	9.5	9.5	9.5	10.4
-80°	0.0	1.6	3.3	4.9	6.6	8.2	9.5	9.5	9.5	9.5	9.5
-82.5°	0.0	1.2	2.5	3.7	4.9	6.2	7.4	8.5	9.5	9.5	9.5
-85°	0.0	0.8	1.7	2.5	3.3	4.1	4.9	5.7	6.5	7.3	8.0
-87.5°	0.0	0.4	0.8	1.2	1.6	2.1	2.5	2.9	3.2	3.6	4.0
-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°	4.4	4.7	5.1	5.4	5.8	6.1	6.4	6.7	7.0	7.3	7.5
85°	8.8	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
82.5°	9.5	9.5	9.5	9.5	9.5	9.5	9.7	10.6	11.5	12.3	13.1
80°	9.5	9.5	10.8	12.2	13.6	14.9	16.1	17.3	18.5	19.5	20.6
77.5°	12.3	14.1	15.9	17.6	19.3	20.9	22.5	24.0	25.4	26.8	28.1
75°	16.6	18.8	20.9	22.9	24.9	26.9	28.8	30.6	32.3	34.0	35.5
72.5°	20.8	23.4	25.8	28.2	30.6	32.9	35.0	37.2	39.2	41.1	42.9
70°	25.0	27.9	30.7	33.5	36.2	38.8	41.3	43.7	46.0	48.9	53.2
67.5°	29.2	32.4	35.6	38.7	41.7	44.6	47.4	52.8	58.1	63.1	67.2
65°	33.3	36.9	40.4	43.8	47.2	53.3	59.6	65.6	69.0	71.8	74.4
62.5°	37.3	41.2	45.1	50.2	57.6	64.7	69.1	72.4	75.6	84.2	93.0
60°	41.2	45.5	51.9	60.2	67.3	71.2	75.0	84.0	94.6	104.9	121.0
57.5°	45.1	51.9	61.0	68.2	72.5	78.3	90.6	102.6	120.4	138.7	154.5
55°	50.2	60.2	68.2	73.0	81.0	94.6	110.2	131.6	152.1	164.0	175.5
52.5°	57.6	67.3	72.5	81.0	96.0	114.7	138.3	157.6	170.9	189.4	222.3
50°	64.7	71.2	78.3	94.6	114.7	140.6	160.3	175.1	204.4	241.2	296.6
47.5°	69.1	75.0	90.6	110.2	138.3	160.3	176.5	211.9	252.6	327.3	402.9
45°	72.4	84.0	102.6	131.6	157.6	175.1	211.9	256.4	342.8	434.3	550.2
42.5°	75.6	94.6	120.4	152.1	170.9	204.4	252.6	342.8	445.6	573.2	687.3
40°	84.2	104.9	138.7	164.0	189.4	241.2	327.3	434.3	573.2	697.5	811.1
37.5°	93.0	121.0	154.5	175.5	222.3	296.6	402.9	550.2	687.3	811.1	862.4
35°	101.4	136.3	164.6	196.3	253.7	364.1	504.5	656.8	790.3	858.2	888.6
32.5°	112.5	150.8	174.1	223.9	310.6	437.0	603.6	749.1	845.5	890.7	877.4
30°	124.8	159.4	187.4	249.8	366.8	524.1	688.1	824.6	882.9	880.7	1160.2
27.5°	136.3	167.0	209.7	291.8	424.2	605.9	764.8	857.5	886.2	970.5	1583.8
25°	147.0	174.1	230.3	336.7	494.4	674.7	824.5	888.2	877.9	1342.4	2736.6
22.5°	154.8	180.8	249.2	377.9	558.9	735.5	850.7	886.6	1012.1	1726.8	4007.3
20°	160.1	196.3	276.1	418.3	617.4	790.8	874.6	880.1	1305.4	2811.0	5983.8
17.5°	164.8	210.2	306.6	466.3	664.1	826.1	891.7	874.3	1569.4	3789.0	8151.5
15°	168.9	222.3	333.2	508.2	704.0	843.4	887.0	1058.5	2120.4	4914.6	10152.7
12.5°	172.4	232.7	356.0	544.1	738.0	858.3	883.0	1242.9	2806.9	6443.6	14191.6
10°	175.2	241.2	374.7	573.7	766.2	870.5	879.6	1395.6	3376.2	7714.1	17555.0
7.5°	177.5	247.8	389.4	596.8	788.2	880.2	877.0	1515.6	3824.0	8714.8	20209.3
5°	179.1	252.6	399.9	613.4	804.0	887.1	875.1	1601.9	4146.5	9436.6	22126.6
2.5°	180.1	255.4	406.2	623.4	813.5	891.2	874.0	1653.9	4341.1	9872.5	23285.7
0°	180.4	256.4	408.3	626.7	816.7	892.6	873.6	1671.3	4406.2	10018.3	23673.6
-2.5°	180.1	255.4	406.2	623.4	813.5	891.2	874.0	1653.9	4341.1	9872.5	23285.7
-5°	179.1	252.6	399.9	613.4	804.0	887.1	875.1	1601.9	4146.5	9436.6	22126.6
-7.5°	177.5	247.8	389.4	596.8	788.2	880.2	877.0	1515.6	3824.0	8714.8	20209.3
-10°	175.2	241.2	374.7	573.7	766.2	870.5	879.6	1395.6	3376.2	7714.1	17555.0
-12.5°	172.4	232.7	356.0	544.1	738.0	858.3	883.0	1242.9	2806.9	6443.6	14191.6
-15°	168.9	222.3	333.2	508.2	704.0	843.4	887.0	1058.5	2120.4	4914.6	10152.7
-17.5°	164.8	210.2	306.6	466.3	664.1	826.1	891.7	874.3	1569.4	3789.0	8151.5
-20°	160.1	196.3	276.1	418.3	617.4	790.8	874.6	880.1	1305.4	2811.0	5983.8



REPORT NUMBER: P699952 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-3R-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	154.8	180.8	249.2	377.9	558.9	735.5	850.7	886.6	1012.1	1726.8	4007.3
-25°	147.0	174.1	230.3	336.7	494.4	674.7	824.5	888.2	877.9	1342.4	2736.6
-27.5°	136.3	167.0	209.7	291.8	424.2	605.9	764.8	857.5	886.2	970.5	1583.8
-30°	124.8	159.4	187.4	249.8	366.8	524.1	688.1	824.6	882.9	880.7	1160.2
-32.5°	112.5	150.8	174.1	223.9	310.6	437.0	603.6	749.1	845.5	890.7	877.4
-35°	101.4	136.3	164.6	196.3	253.7	364.1	504.5	656.8	790.3	858.2	888.6
-37.5°	93.0	121.0	154.5	175.5	222.3	296.6	402.9	550.2	687.3	811.1	862.4
-40°	84.2	104.9	138.7	164.0	189.4	241.2	327.3	434.3	573.2	697.5	811.1
-42.5°	75.6	94.6	120.4	152.1	170.9	204.4	252.6	342.8	445.6	573.2	687.3
-45°	72.4	84.0	102.6	131.6	157.6	175.1	211.9	256.4	342.8	434.3	550.2
-47.5°	69.1	75.0	90.6	110.2	138.3	160.3	176.5	211.9	252.6	327.3	402.9
-50°	64.7	71.2	78.3	94.6	114.7	140.6	160.3	175.1	204.4	241.2	296.6
-52.5°	57.6	67.3	72.5	81.0	96.0	114.7	138.3	157.6	170.9	189.4	222.3
-55°	50.2	60.2	68.2	73.0	81.0	94.6	110.2	131.6	152.1	164.0	175.5
-57.5°	45.1	51.9	61.0	68.2	72.5	78.3	90.6	102.6	120.4	138.7	154.5
-60°	41.2	45.5	51.9	60.2	67.3	71.2	75.0	84.0	94.6	104.9	121.0
-62.5°	37.3	41.2	45.1	50.2	57.6	64.7	69.1	72.4	75.6	84.2	93.0
-65°	33.3	36.9	40.4	43.8	47.2	53.3	59.6	65.6	69.0	71.8	74.4
-67.5°	29.2	32.4	35.6	38.7	41.7	44.6	47.4	52.8	58.1	63.1	67.2
-70°	25.0	27.9	30.7	33.5	36.2	38.8	41.3	43.7	46.0	48.9	53.2
-72.5°	20.8	23.4	25.8	28.2	30.6	32.9	35.0	37.2	39.2	41.1	42.9
-75°	16.6	18.8	20.9	22.9	24.9	26.9	28.8	30.6	32.3	34.0	35.5
-77.5°	12.3	14.1	15.9	17.6	19.3	20.9	22.5	24.0	25.4	26.8	28.1
-80°	9.5	9.5	10.8	12.2	13.6	14.9	16.1	17.3	18.5	19.5	20.6
-82.5°	9.5	9.5	9.5	9.5	9.5	9.5	9.7	10.6	11.5	12.3	13.1
-85°	8.8	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
-87.5°	4.4	4.7	5.1	5.4	5.8	6.1	6.4	6.7	7.0	7.3	7.5
-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: P699952 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-3R-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°	7.8	8.0	8.2	8.4	8.6	8.8	8.9	9.1	9.2	9.3	9.4
85°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
82.5°	13.8	14.5	15.2	15.8	16.3	16.8	17.3	17.7	18.0	18.3	18.6
80°	21.6	22.5	23.4	24.2	24.9	25.6	26.2	26.7	27.2	27.6	27.9
77.5°	29.3	30.5	31.6	32.6	33.5	34.3	35.1	35.8	36.4	36.9	37.3
75°	37.0	38.4	39.7	40.9	42.1	43.1	44.0	44.8	45.5	46.1	46.6
72.5°	44.7	46.3	48.2	51.1	53.7	56.1	58.2	60.2	61.8	63.2	64.4
70°	57.2	60.9	64.4	67.1	68.6	70.0	71.2	72.3	73.3	74.1	74.8
67.5°	69.4	71.6	73.5	75.4	79.3	84.0	88.3	92.0	95.3	98.1	100.4
65°	78.9	86.0	92.7	99.0	104.9	113.6	121.5	128.6	134.7	139.9	144.2
62.5°	101.4	112.5	124.8	136.3	147.0	154.8	160.1	164.8	168.9	172.4	175.2
60°	136.3	150.8	159.4	167.0	174.1	180.8	196.3	210.2	222.3	232.7	241.2
57.5°	164.6	174.1	187.4	209.7	230.3	249.2	276.1	306.6	333.2	356.0	374.7
55°	196.3	223.9	249.8	291.8	336.7	377.9	418.3	466.3	508.2	544.1	573.7
52.5°	253.7	310.6	366.8	424.2	494.4	558.9	617.4	664.1	704.0	738.0	766.2
50°	364.1	437.0	524.1	605.9	674.7	735.5	790.8	826.1	843.4	858.3	870.5
47.5°	504.5	603.6	688.1	764.8	824.5	850.7	874.6	891.7	887.0	883.0	879.6
45°	656.8	749.1	824.6	857.5	888.2	886.6	880.1	874.3	1058.5	1242.9	1395.6
42.5°	790.3	845.5	882.9	886.2	877.9	1012.1	1305.4	1569.4	2120.4	2806.9	3376.2
40°	858.2	890.7	880.7	970.5	1342.4	1726.8	2811.0	3789.0	4914.6	6443.6	7714.1
37.5°	888.6	877.4	1160.2	1583.8	2736.6	4007.3	5983.8	8151.5	10152.7	14191.6	17555.0
35°	876.3	1256.1	1875.5	3423.6	5386.3	8183.6	11829.2	17524.2	22589.7	27454.9	31648.0
32.5°	1256.1	2044.9	3771.5	6484.5	9684.2	16500.0	23250.0	30227.0	36510.1	41068.6	44095.0
30°	1875.5	3771.5	6853.9	11057.1	19359.0	27674.7	35982.0	42134.4	46642.5	49872.0	50677.1
27.5°	3423.6	6484.5	11057.1	20321.9	29954.7	39444.3	45350.8	49921.7	51112.5	52157.1	52711.6
25°	5386.3	9684.2	19359.0	29954.7	40233.0	46990.1	50542.8	51970.3	52852.4	53567.8	54265.4
22.5°	8183.6	16500.0	27674.7	39444.3	46990.1	50752.8	52316.7	53282.7	54251.9	55196.3	56273.1
20°	11829.2	23250.0	35982.0	45350.8	50542.8	52316.7	53428.6	54621.7	55881.5	57676.4	59566.8
17.5°	17524.2	30227.0	42134.4	49921.7	51970.3	53282.7	54621.7	56224.5	58403.9	62009.3	65667.1
15°	22589.7	36510.1	46642.5	51112.5	52852.4	54251.9	55881.5	58403.9	62847.1	69205.0	77817.2
12.5°	27454.9	41068.6	49872.0	52157.1	53567.8	55196.3	57676.4	62009.3	69205.0	79909.0	100416.1
10°	31648.0	44095.0	50677.1	52711.6	54265.4	56273.1	59566.8	65667.1	77817.2	100416.1	130269.8
7.5°	34964.7	46495.4	51317.8	53153.4	54853.8	57404.5	62247.4	71784.9	90437.7	121643.2	172278.4
5°	37364.8	48236.2	51783.7	53475.8	55285.2	58238.6	64238.9	76557.7	102539.3	145526.5	229361.2
2.5°	38817.6	49291.6	52066.8	53672.2	55548.7	58750.4	65467.8	79527.0	110158.8	164096.5	305186.2
0°	<b>39304.1</b>	<b>49645.3</b>	<b>52161.7</b>	<b>53738.1</b>	<b>55637.3</b>	<b>58922.9</b>	<b>65883.5</b>	<b>80535.9</b>	<b>112765.4</b>	<b>171574.3</b>	<b>334630.7</b>
-2.5°	38817.6	49291.6	52066.8	53672.2	55548.7	58750.4	65467.8	79527.0	110158.8	164096.5	305186.2
-5°	37364.8	48236.2	51783.7	53475.8	55285.2	58238.6	64238.9	76557.7	102539.3	145526.5	229361.2
-7.5°	34964.7	46495.4	51317.8	53153.4	54853.8	57404.5	62247.4	71784.9	90437.7	121643.2	172278.4
-10°	31648.0	44095.0	50677.1	52711.6	54265.4	56273.1	59566.8	65667.1	77817.2	100416.1	130269.8
-12.5°	27454.9	41068.6	49872.0	52157.1	53567.8	55196.3	57676.4	62009.3	69205.0	79909.0	100416.1
-15°	22589.7	36510.1	46642.5	51112.5	52852.4	54251.9	55881.5	58403.9	62847.1	69205.0	77817.2
-17.5°	17524.2	30227.0	42134.4	49921.7	51970.3	53282.7	54621.7	56224.5	58403.9	62009.3	65667.1
-20°	11829.2	23250.0	35982.0	45350.8	50542.8	52316.7	53428.6	54621.7	55881.5	57676.4	59566.8



REPORT NUMBER: P699952 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-3R-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	8183.6	16500.0	27674.7	39444.3	46990.1	50752.8	52316.7	53282.7	54251.9	55196.3	56273.1
-25°	5386.3	9684.2	19359.0	29954.7	40233.0	46990.1	50542.8	51970.3	52852.4	53567.8	54265.4
-27.5°	3423.6	6484.5	11057.1	20321.9	29954.7	39444.3	45350.8	49921.7	51112.5	52157.1	52711.6
-30°	1875.5	3771.5	6853.9	11057.1	19359.0	27674.7	35982.0	42134.4	46642.5	49872.0	50677.1
-32.5°	1256.1	2044.9	3771.5	6484.5	9684.2	16500.0	23250.0	30227.0	36510.1	41068.6	44095.0
-35°	876.3	1256.1	1875.5	3423.6	5386.3	8183.6	11829.2	17524.2	22589.7	27454.9	31648.0
-37.5°	888.6	877.4	1160.2	1583.8	2736.6	4007.3	5983.8	8151.5	10152.7	14191.6	17555.0
-40°	858.2	890.7	880.7	970.5	1342.4	1726.8	2811.0	3789.0	4914.6	6443.6	7714.1
-42.5°	790.3	845.5	882.9	886.2	877.9	1012.1	1305.4	1569.4	2120.4	2806.9	3376.2
-45°	656.8	749.1	824.6	857.5	888.2	886.6	880.1	874.3	1058.5	1242.9	1395.6
-47.5°	504.5	603.6	688.1	764.8	824.5	850.7	874.6	891.7	887.0	883.0	879.6
-50°	364.1	437.0	524.1	605.9	674.7	735.5	790.8	826.1	843.4	858.3	870.5
-52.5°	253.7	310.6	366.8	424.2	494.4	558.9	617.4	664.1	704.0	738.0	766.2
-55°	196.3	223.9	249.8	291.8	336.7	377.9	418.3	466.3	508.2	544.1	573.7
-57.5°	164.6	174.1	187.4	209.7	230.3	249.2	276.1	306.6	333.2	356.0	374.7
-60°	136.3	150.8	159.4	167.0	174.1	180.8	196.3	210.2	222.3	232.7	241.2
-62.5°	101.4	112.5	124.8	136.3	147.0	154.8	160.1	164.8	168.9	172.4	175.2
-65°	78.9	86.0	92.7	99.0	104.9	113.6	121.5	128.6	134.7	139.9	144.2
-67.5°	69.4	71.6	73.5	75.4	79.3	84.0	88.3	92.0	95.3	98.1	100.4
-70°	57.2	60.9	64.4	67.1	68.6	70.0	71.2	72.3	73.3	74.1	74.8
-72.5°	44.7	46.3	48.2	51.1	53.7	56.1	58.2	60.2	61.8	63.2	64.4
-75°	37.0	38.4	39.7	40.9	42.1	43.1	44.0	44.8	45.5	46.1	46.6
-77.5°	29.3	30.5	31.6	32.6	33.5	34.3	35.1	35.8	36.4	36.9	37.3
-80°	21.6	22.5	23.4	24.2	24.9	25.6	26.2	26.7	27.2	27.6	27.9
-82.5°	13.8	14.5	15.2	15.8	16.3	16.8	17.3	17.7	18.0	18.3	18.6
-85°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
-87.5°	7.8	8.0	8.2	8.4	8.6	8.8	8.9	9.1	9.2	9.3	9.4
-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: P699952 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-3R-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°	9.4	9.5	9.5	9.5	9.5	9.5	9.4	9.4	9.3	9.2	9.1
85°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
82.5°	18.8	18.9	19.0	19.0	19.0	18.9	18.8	18.6	18.3	18.0	17.7
80°	28.2	28.4	28.5	28.5	28.5	28.4	28.2	27.9	27.6	27.2	26.7
77.5°	37.6	37.8	38.0	38.0	38.0	37.8	37.6	37.3	36.9	36.4	35.8
75°	47.0	47.3	47.4	47.5	47.4	47.3	47.0	46.6	46.1	45.5	44.8
72.5°	65.3	66.0	66.4	66.5	66.4	66.0	65.3	64.4	63.2	61.8	60.2
70°	75.3	75.7	75.9	76.0	75.9	75.7	75.3	74.8	74.1	73.3	72.3
67.5°	102.2	103.5	104.2	104.5	104.2	103.5	102.2	100.4	98.1	95.3	92.0
65°	147.6	150.0	151.4	151.9	151.4	150.0	147.6	144.2	139.9	134.7	128.6
62.5°	177.5	179.1	180.1	180.4	180.1	179.1	177.5	175.2	172.4	168.9	164.8
60°	247.8	252.6	255.4	256.4	255.4	252.6	247.8	241.2	232.7	222.3	210.2
57.5°	389.4	399.9	406.2	408.3	406.2	399.9	389.4	374.7	356.0	333.2	306.6
55°	596.8	613.4	623.4	626.7	623.4	613.4	596.8	573.7	544.1	508.2	466.3
52.5°	788.2	804.0	813.5	816.7	813.5	804.0	788.2	766.2	738.0	704.0	664.1
50°	880.2	887.1	891.2	892.6	891.2	887.1	880.2	870.5	858.3	843.4	826.1
47.5°	877.0	875.1	874.0	873.6	874.0	875.1	877.0	879.6	883.0	887.0	891.7
45°	1515.6	1601.9	1653.9	1671.3	1653.9	1601.9	1515.6	1395.6	1242.9	1058.5	874.3
42.5°	3824.0	4146.5	4341.1	4406.2	4341.1	4146.5	3824.0	3376.2	2806.9	2120.4	1569.4
40°	8714.8	9436.6	9872.5	10018.3	9872.5	9436.6	8714.8	7714.1	6443.6	4914.6	3789.0
37.5°	20209.3	22126.6	23285.7	23673.6	23285.7	22126.6	20209.3	17555.0	14191.6	10152.7	8151.5
35°	34964.7	37364.8	38817.6	39304.1	38817.6	37364.8	34964.7	31648.0	27454.9	22589.7	17524.2
32.5°	46495.4	48236.2	49291.6	49645.3	49291.6	48236.2	46495.4	44095.0	41068.6	36510.1	30227.0
30°	51317.8	51783.7	52066.8	52161.7	52066.8	51783.7	51317.8	50677.1	49872.0	46642.5	42134.4
27.5°	53153.4	53475.8	53672.2	53738.1	53672.2	53475.8	53153.4	52711.6	52157.1	51112.5	49921.7
25°	54853.8	55285.2	55548.7	55637.3	55548.7	55285.2	54853.8	54265.4	53567.8	52852.4	51970.3
22.5°	57404.5	58238.6	58750.4	58922.9	58750.4	58238.6	57404.5	56273.1	55196.3	54251.9	53282.7
20°	62247.4	64238.9	65467.8	65883.5	65467.8	64238.9	62247.4	59566.8	57676.4	55881.5	54621.7
17.5°	71784.9	76557.7	79527.0	80535.9	79527.0	76557.7	71784.9	65667.1	62009.3	58403.9	56224.5
15°	90437.7	102539.3	110158.8	112765.4	110158.8	102539.3	90437.7	77817.2	69205.0	62847.1	58403.9
12.5°	121643.2	145526.5	164096.5	171574.3	164096.5	145526.5	121643.2	100416.1	79909.0	69205.0	62009.3
10°	172278.4	229361.2	305186.2	334630.7	305186.2	229361.2	172278.4	130269.8	100416.1	77817.2	65667.1
7.5°	277476.1	495963.2	718115.4	791575.1	718115.4	495963.2	277476.1	172278.4	121643.2	90437.7	71784.9
5°	495963.2	870496.0	#####	#####	#####	870496.0	495963.2	229361.2	145526.5	102539.3	76557.7
2.5°	718115.4	#####	#####	#####	#####	#####	718115.4	305186.2	164096.5	110158.8	79527.0
0°	791575.1	#####	#####	#####	#####	#####	791575.1	334630.7	171574.3	112765.4	80535.9
-2.5°	718115.4	#####	#####	#####	#####	#####	718115.4	305186.2	164096.5	110158.8	79527.0
-5°	495963.2	870496.0	#####	#####	#####	870496.0	495963.2	229361.2	145526.5	102539.3	76557.7
-7.5°	277476.1	495963.2	718115.4	791575.1	718115.4	495963.2	277476.1	172278.4	121643.2	90437.7	71784.9
-10°	172278.4	229361.2	305186.2	334630.7	305186.2	229361.2	172278.4	130269.8	100416.1	77817.2	65667.1
-12.5°	121643.2	145526.5	164096.5	171574.3	164096.5	145526.5	121643.2	100416.1	79909.0	69205.0	62009.3
-15°	90437.7	102539.3	110158.8	112765.4	110158.8	102539.3	90437.7	77817.2	69205.0	62847.1	58403.9
-17.5°	71784.9	76557.7	79527.0	80535.9	79527.0	76557.7	71784.9	65667.1	62009.3	58403.9	56224.5
-20°	62247.4	64238.9	65467.8	65883.5	65467.8	64238.9	62247.4	59566.8	57676.4	55881.5	54621.7



REPORT NUMBER: P699952 (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°	57404.5	58238.6	58750.4	58922.9	58750.4	58238.6	57404.5	56273.1	55196.3	54251.9	53282.7
-25°	54853.8	55285.2	55548.7	55637.3	55548.7	55285.2	54853.8	54265.4	53567.8	52852.4	51970.3
-27.5°	53153.4	53475.8	53672.2	53738.1	53672.2	53475.8	53153.4	52711.6	52157.1	51112.5	49921.7
-30°	51317.8	51783.7	52066.8	52161.7	52066.8	51783.7	51317.8	50677.1	49872.0	46642.5	42134.4
-32.5°	46495.4	48236.2	49291.6	49645.3	49291.6	48236.2	46495.4	44095.0	41068.6	36510.1	30227.0
-35°	34964.7	37364.8	38817.6	39304.1	38817.6	37364.8	34964.7	31648.0	27454.9	22589.7	17524.2
-37.5°	20209.3	22126.6	23285.7	23673.6	23285.7	22126.6	20209.3	17555.0	14191.6	10152.7	8151.5
-40°	8714.8	9436.6	9872.5	10018.3	9872.5	9436.6	8714.8	7714.1	6443.6	4914.6	3789.0
-42.5°	3824.0	4146.5	4341.1	4406.2	4341.1	4146.5	3824.0	3376.2	2806.9	2120.4	1569.4
-45°	1515.6	1601.9	1653.9	1671.3	1653.9	1601.9	1515.6	1395.6	1242.9	1058.5	874.3
-47.5°	877.0	875.1	874.0	873.6	874.0	875.1	877.0	879.6	883.0	887.0	891.7
-50°	880.2	887.1	891.2	892.6	891.2	887.1	880.2	870.5	858.3	843.4	826.1
-52.5°	788.2	804.0	813.5	816.7	813.5	804.0	788.2	766.2	738.0	704.0	664.1
-55°	596.8	613.4	623.4	626.7	623.4	613.4	596.8	573.7	544.1	508.2	466.3
-57.5°	389.4	399.9	406.2	408.3	406.2	399.9	389.4	374.7	356.0	333.2	306.6
-60°	247.8	252.6	255.4	256.4	255.4	252.6	247.8	241.2	232.7	222.3	210.2
-62.5°	177.5	179.1	180.1	180.4	180.1	179.1	177.5	175.2	172.4	168.9	164.8
-65°	147.6	150.0	151.4	151.9	151.4	150.0	147.6	144.2	139.9	134.7	128.6
-67.5°	102.2	103.5	104.2	104.5	104.2	103.5	102.2	100.4	98.1	95.3	92.0
-70°	75.3	75.7	75.9	76.0	75.9	75.7	75.3	74.8	74.1	73.3	72.3
-72.5°	65.3	66.0	66.4	66.5	66.4	66.0	65.3	64.4	63.2	61.8	60.2
-75°	47.0	47.3	47.4	47.5	47.4	47.3	47.0	46.6	46.1	45.5	44.8
-77.5°	37.6	37.8	38.0	38.0	38.0	37.8	37.6	37.3	36.9	36.4	35.8
-80°	28.2	28.4	28.5	28.5	28.5	28.4	28.2	27.9	27.6	27.2	26.7
-82.5°	18.8	18.9	19.0	19.0	19.0	18.9	18.8	18.6	18.3	18.0	17.7
-85°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
-87.5°	9.4	9.5	9.5	9.5	9.5	9.5	9.4	9.4	9.3	9.2	9.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: EPH-LS-16-1200R-40-80-3R-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°	8.9	8.8	8.6	8.4	8.2	8.0	7.8	7.5	7.3	7.0	6.7
85°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
82.5°	17.3	16.8	16.3	15.8	15.2	14.5	13.8	13.1	12.3	11.5	10.6
80°	26.2	25.6	24.9	24.2	23.4	22.5	21.6	20.6	19.5	18.5	17.3
77.5°	35.1	34.3	33.5	32.6	31.6	30.5	29.3	28.1	26.8	25.4	24.0
75°	44.0	43.1	42.1	40.9	39.7	38.4	37.0	35.5	34.0	32.3	30.6
72.5°	58.2	56.1	53.7	51.1	48.2	46.3	44.7	42.9	41.1	39.2	37.2
70°	71.2	70.0	68.6	67.1	64.4	60.9	57.2	53.2	48.9	46.0	43.7
67.5°	88.3	84.0	79.3	75.4	73.5	71.6	69.4	67.2	63.1	58.1	52.8
65°	121.5	113.6	104.9	99.0	92.7	86.0	78.9	74.4	71.8	69.0	65.6
62.5°	160.1	154.8	147.0	136.3	124.8	112.5	101.4	93.0	84.2	75.6	72.4
60°	196.3	180.8	174.1	167.0	159.4	150.8	136.3	121.0	104.9	94.6	84.0
57.5°	276.1	249.2	230.3	209.7	187.4	174.1	164.6	154.5	138.7	120.4	102.6
55°	418.3	377.9	336.7	291.8	249.8	223.9	196.3	175.5	164.0	152.1	131.6
52.5°	617.4	558.9	494.4	424.2	366.8	310.6	253.7	222.3	189.4	170.9	157.6
50°	790.8	735.5	674.7	605.9	524.1	437.0	364.1	296.6	241.2	204.4	175.1
47.5°	874.6	850.7	824.5	764.8	688.1	603.6	504.5	402.9	327.3	252.6	211.9
45°	880.1	886.6	888.2	857.5	824.6	749.1	656.8	550.2	434.3	342.8	256.4
42.5°	1305.4	1012.1	877.9	886.2	882.9	845.5	790.3	687.3	573.2	445.6	342.8
40°	2811.0	1726.8	1342.4	970.5	880.7	890.7	858.2	811.1	697.5	573.2	434.3
37.5°	5983.8	4007.3	2736.6	1583.8	1160.2	877.4	888.6	862.4	811.1	687.3	550.2
35°	11829.2	8183.6	5386.3	3423.6	1875.5	1256.1	876.3	888.6	858.2	790.3	656.8
32.5°	23250.0	16500.0	9684.2	6484.5	3771.5	2044.9	1256.1	877.4	890.7	845.5	749.1
30°	35982.0	27674.7	19359.0	11057.1	6853.9	3771.5	1875.5	1160.2	880.7	882.9	824.6
27.5°	45350.8	39444.3	29954.7	20321.9	11057.1	6484.5	3423.6	1583.8	970.5	886.2	857.5
25°	50542.8	46990.1	40233.0	29954.7	19359.0	9684.2	5386.3	2736.6	1342.4	877.9	888.2
22.5°	52316.7	50752.8	46990.1	39444.3	27674.7	16500.0	8183.6	4007.3	1726.8	1012.1	886.6
20°	53428.6	52316.7	50542.8	45350.8	35982.0	23250.0	11829.2	5983.8	2811.0	1305.4	880.1
17.5°	54621.7	53282.7	51970.3	49921.7	42134.4	30227.0	17524.2	8151.5	3789.0	1569.4	874.3
15°	55881.5	54251.9	52852.4	51112.5	46642.5	36510.1	22589.7	10152.7	4914.6	2120.4	1058.5
12.5°	57676.4	55196.3	53567.8	52157.1	49872.0	41068.6	27454.9	14191.6	6443.6	2806.9	1242.9
10°	59566.8	56273.1	54265.4	52711.6	50677.1	44095.0	31648.0	17555.0	7714.1	3376.2	1395.6
7.5°	62247.4	57404.5	54853.8	53153.4	51317.8	46495.4	34964.7	20209.3	8714.8	3824.0	1515.6
5°	64238.9	58238.6	55285.2	53475.8	51783.7	48236.2	37364.8	22126.6	9436.6	4146.5	1601.9
2.5°	65467.8	58750.4	55548.7	53672.2	52066.8	49291.6	38817.6	23285.7	9872.5	4341.1	1653.9
0°	<b>65883.5</b>	<b>58922.9</b>	<b>55637.3</b>	<b>53738.1</b>	<b>52161.7</b>	<b>49645.3</b>	<b>39304.1</b>	<b>23673.6</b>	<b>10018.3</b>	<b>4406.2</b>	<b>1671.3</b>
-2.5°	65467.8	58750.4	55548.7	53672.2	52066.8	49291.6	38817.6	23285.7	9872.5	4341.1	1653.9
-5°	64238.9	58238.6	55285.2	53475.8	51783.7	48236.2	37364.8	22126.6	9436.6	4146.5	1601.9
-7.5°	62247.4	57404.5	54853.8	53153.4	51317.8	46495.4	34964.7	20209.3	8714.8	3824.0	1515.6
-10°	59566.8	56273.1	54265.4	52711.6	50677.1	44095.0	31648.0	17555.0	7714.1	3376.2	1395.6
-12.5°	57676.4	55196.3	53567.8	52157.1	49872.0	41068.6	27454.9	14191.6	6443.6	2806.9	1242.9
-15°	55881.5	54251.9	52852.4	51112.5	46642.5	36510.1	22589.7	10152.7	4914.6	2120.4	1058.5
-17.5°	54621.7	53282.7	51970.3	49921.7	42134.4	30227.0	17524.2	8151.5	3789.0	1569.4	874.3
-20°	53428.6	52316.7	50542.8	45350.8	35982.0	23250.0	11829.2	5983.8	2811.0	1305.4	880.1



REPORT NUMBER: P699952 (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°
-22.5°	52316.7	50752.8	46990.1	39444.3	27674.7	16500.0	8183.6	4007.3	1726.8	1012.1	886.6
-25°	50542.8	46990.1	40233.0	29954.7	19359.0	9684.2	5386.3	2736.6	1342.4	877.9	888.2
-27.5°	45350.8	39444.3	29954.7	20321.9	11057.1	6484.5	3423.6	1583.8	970.5	886.2	857.5
-30°	35982.0	27674.7	19359.0	11057.1	6853.9	3771.5	1875.5	1160.2	880.7	882.9	824.6
-32.5°	23250.0	16500.0	9684.2	6484.5	3771.5	2044.9	1256.1	877.4	890.7	845.5	749.1
-35°	11829.2	8183.6	5386.3	3423.6	1875.5	1256.1	876.3	888.6	858.2	790.3	656.8
-37.5°	5983.8	4007.3	2736.6	1583.8	1160.2	877.4	888.6	862.4	811.1	687.3	550.2
-40°	2811.0	1726.8	1342.4	970.5	880.7	890.7	858.2	811.1	697.5	573.2	434.3
-42.5°	1305.4	1012.1	877.9	886.2	882.9	845.5	790.3	687.3	573.2	445.6	342.8
-45°	880.1	886.6	888.2	857.5	824.6	749.1	656.8	550.2	434.3	342.8	256.4
-47.5°	874.6	850.7	824.5	764.8	688.1	603.6	504.5	402.9	327.3	252.6	211.9
-50°	790.8	735.5	674.7	605.9	524.1	437.0	364.1	296.6	241.2	204.4	175.1
-52.5°	617.4	558.9	494.4	424.2	366.8	310.6	253.7	222.3	189.4	170.9	157.6
-55°	418.3	377.9	336.7	291.8	249.8	223.9	196.3	175.5	164.0	152.1	131.6
-57.5°	276.1	249.2	230.3	209.7	187.4	174.1	164.6	154.5	138.7	120.4	102.6
-60°	196.3	180.8	174.1	167.0	159.4	150.8	136.3	121.0	104.9	94.6	84.0
-62.5°	160.1	154.8	147.0	136.3	124.8	112.5	101.4	93.0	84.2	75.6	72.4
-65°	121.5	113.6	104.9	99.0	92.7	86.0	78.9	74.4	71.8	69.0	65.6
-67.5°	88.3	84.0	79.3	75.4	73.5	71.6	69.4	67.2	63.1	58.1	52.8
-70°	71.2	70.0	68.6	67.1	64.4	60.9	57.2	53.2	48.9	46.0	43.7
-72.5°	58.2	56.1	53.7	51.1	48.2	46.3	44.7	42.9	41.1	39.2	37.2
-75°	44.0	43.1	42.1	40.9	39.7	38.4	37.0	35.5	34.0	32.3	30.6
-77.5°	35.1	34.3	33.5	32.6	31.6	30.5	29.3	28.1	26.8	25.4	24.0
-80°	26.2	25.6	24.9	24.2	23.4	22.5	21.6	20.6	19.5	18.5	17.3
-82.5°	17.3	16.8	16.3	15.8	15.2	14.5	13.8	13.1	12.3	11.5	10.6
-85°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
-87.5°	8.9	8.8	8.6	8.4	8.2	8.0	7.8	7.5	7.3	7.0	6.7
-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: P699952 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-3R-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°	6.4	6.1	5.8	5.4	5.1	4.7	4.4	4.0	3.6	3.2	2.9
85°	9.5	9.5	9.5	9.5	9.5	9.5	8.8	8.0	7.3	6.5	5.7
82.5°	9.7	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	8.5
80°	16.1	14.9	13.6	12.2	10.8	9.5	9.5	9.5	9.5	9.5	9.5
77.5°	22.5	20.9	19.3	17.6	15.9	14.1	12.3	10.4	9.5	9.5	9.5
75°	28.8	26.9	24.9	22.9	20.9	18.8	16.6	14.4	12.1	9.8	9.5
72.5°	35.0	32.9	30.6	28.2	25.8	23.4	20.8	18.2	15.6	12.9	10.2
70°	41.3	38.8	36.2	33.5	30.7	27.9	25.0	22.1	19.1	16.0	12.9
67.5°	47.4	44.6	41.7	38.7	35.6	32.4	29.2	25.9	22.5	19.1	15.6
65°	59.6	53.3	47.2	43.8	40.4	36.9	33.3	29.6	25.9	22.1	18.2
62.5°	69.1	64.7	57.6	50.2	45.1	41.2	37.3	33.3	29.2	25.0	20.8
60°	75.0	71.2	67.3	60.2	51.9	45.5	41.2	36.9	32.4	27.9	23.4
57.5°	90.6	78.3	72.5	68.2	61.0	51.9	45.1	40.4	35.6	30.7	25.8
55°	110.2	94.6	81.0	73.0	68.2	60.2	50.2	43.8	38.7	33.5	28.2
52.5°	138.3	114.7	96.0	81.0	72.5	67.3	57.6	47.2	41.7	36.2	30.6
50°	160.3	140.6	114.7	94.6	78.3	71.2	64.7	53.3	44.6	38.8	32.9
47.5°	176.5	160.3	138.3	110.2	90.6	75.0	69.1	59.6	47.4	41.3	35.0
45°	211.9	175.1	157.6	131.6	102.6	84.0	72.4	65.6	52.8	43.7	37.2
42.5°	252.6	204.4	170.9	152.1	120.4	94.6	75.6	69.0	58.1	46.0	39.2
40°	327.3	241.2	189.4	164.0	138.7	104.9	84.2	71.8	63.1	48.9	41.1
37.5°	402.9	296.6	222.3	175.5	154.5	121.0	93.0	74.4	67.2	53.2	42.9
35°	504.5	364.1	253.7	196.3	164.6	136.3	101.4	78.9	69.4	57.2	44.7
32.5°	603.6	437.0	310.6	223.9	174.1	150.8	112.5	86.0	71.6	60.9	46.3
30°	688.1	524.1	366.8	249.8	187.4	159.4	124.8	92.7	73.5	64.4	48.2
27.5°	764.8	605.9	424.2	291.8	209.7	167.0	136.3	99.0	75.4	67.1	51.1
25°	824.5	674.7	494.4	336.7	230.3	174.1	147.0	104.9	79.3	68.6	53.7
22.5°	850.7	735.5	558.9	377.9	249.2	180.8	154.8	113.6	84.0	70.0	56.1
20°	874.6	790.8	617.4	418.3	276.1	196.3	160.1	121.5	88.3	71.2	58.2
17.5°	891.7	826.1	664.1	466.3	306.6	210.2	164.8	128.6	92.0	72.3	60.2
15°	887.0	843.4	704.0	508.2	333.2	222.3	168.9	134.7	95.3	73.3	61.8
12.5°	883.0	858.3	738.0	544.1	356.0	232.7	172.4	139.9	98.1	74.1	63.2
10°	879.6	870.5	766.2	573.7	374.7	241.2	175.2	144.2	100.4	74.8	64.4
7.5°	877.0	880.2	788.2	596.8	389.4	247.8	177.5	147.6	102.2	75.3	65.3
5°	875.1	887.1	804.0	613.4	399.9	252.6	179.1	150.0	103.5	75.7	66.0
2.5°	874.0	891.2	813.5	623.4	406.2	255.4	180.1	151.4	104.2	75.9	66.4
0°	873.6	892.6	816.7	626.7	408.3	256.4	180.4	151.9	104.5	76.0	66.5
-2.5°	874.0	891.2	813.5	623.4	406.2	255.4	180.1	151.4	104.2	75.9	66.4
-5°	875.1	887.1	804.0	613.4	399.9	252.6	179.1	150.0	103.5	75.7	66.0
-7.5°	877.0	880.2	788.2	596.8	389.4	247.8	177.5	147.6	102.2	75.3	65.3
-10°	879.6	870.5	766.2	573.7	374.7	241.2	175.2	144.2	100.4	74.8	64.4
-12.5°	883.0	858.3	738.0	544.1	356.0	232.7	172.4	139.9	98.1	74.1	63.2
-15°	887.0	843.4	704.0	508.2	333.2	222.3	168.9	134.7	95.3	73.3	61.8
-17.5°	891.7	826.1	664.1	466.3	306.6	210.2	164.8	128.6	92.0	72.3	60.2
-20°	874.6	790.8	617.4	418.3	276.1	196.3	160.1	121.5	88.3	71.2	58.2



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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°	850.7	735.5	558.9	377.9	249.2	180.8	154.8	113.6	84.0	70.0	56.1
-25°	824.5	674.7	494.4	336.7	230.3	174.1	147.0	104.9	79.3	68.6	53.7
-27.5°	764.8	605.9	424.2	291.8	209.7	167.0	136.3	99.0	75.4	67.1	51.1
-30°	688.1	524.1	366.8	249.8	187.4	159.4	124.8	92.7	73.5	64.4	48.2
-32.5°	603.6	437.0	310.6	223.9	174.1	150.8	112.5	86.0	71.6	60.9	46.3
-35°	504.5	364.1	253.7	196.3	164.6	136.3	101.4	78.9	69.4	57.2	44.7
-37.5°	402.9	296.6	222.3	175.5	154.5	121.0	93.0	74.4	67.2	53.2	42.9
-40°	327.3	241.2	189.4	164.0	138.7	104.9	84.2	71.8	63.1	48.9	41.1
-42.5°	252.6	204.4	170.9	152.1	120.4	94.6	75.6	69.0	58.1	46.0	39.2
-45°	211.9	175.1	157.6	131.6	102.6	84.0	72.4	65.6	52.8	43.7	37.2
-47.5°	176.5	160.3	138.3	110.2	90.6	75.0	69.1	59.6	47.4	41.3	35.0
-50°	160.3	140.6	114.7	94.6	78.3	71.2	64.7	53.3	44.6	38.8	32.9
-52.5°	138.3	114.7	96.0	81.0	72.5	67.3	57.6	47.2	41.7	36.2	30.6
-55°	110.2	94.6	81.0	73.0	68.2	60.2	50.2	43.8	38.7	33.5	28.2
-57.5°	90.6	78.3	72.5	68.2	61.0	51.9	45.1	40.4	35.6	30.7	25.8
-60°	75.0	71.2	67.3	60.2	51.9	45.5	41.2	36.9	32.4	27.9	23.4
-62.5°	69.1	64.7	57.6	50.2	45.1	41.2	37.3	33.3	29.2	25.0	20.8
-65°	59.6	53.3	47.2	43.8	40.4	36.9	33.3	29.6	25.9	22.1	18.2
-67.5°	47.4	44.6	41.7	38.7	35.6	32.4	29.2	25.9	22.5	19.1	15.6
-70°	41.3	38.8	36.2	33.5	30.7	27.9	25.0	22.1	19.1	16.0	12.9
-72.5°	35.0	32.9	30.6	28.2	25.8	23.4	20.8	18.2	15.6	12.9	10.2
-75°	28.8	26.9	24.9	22.9	20.9	18.8	16.6	14.4	12.1	9.8	9.5
-77.5°	22.5	20.9	19.3	17.6	15.9	14.1	12.3	10.4	9.5	9.5	9.5
-80°	16.1	14.9	13.6	12.2	10.8	9.5	9.5	9.5	9.5	9.5	9.5
-82.5°	9.7	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	8.5
-85°	9.5	9.5	9.5	9.5	9.5	9.5	8.8	8.0	7.3	6.5	5.7
-87.5°	6.4	6.1	5.8	5.4	5.1	4.7	4.4	4.0	3.6	3.2	2.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	2.5	2.1	1.6	1.2	0.8	0.4	0.0
85°	4.9	4.1	3.3	2.5	1.7	0.8	0.0
82.5°	7.4	6.2	4.9	3.7	2.5	1.2	0.0
80°	9.5	8.2	6.6	4.9	3.3	1.6	0.0
77.5°	9.5	9.5	8.2	6.2	4.1	2.1	0.0
75°	9.5	9.5	9.5	7.4	4.9	2.5	0.0
72.5°	9.5	9.5	9.5	8.5	5.7	2.9	0.0
70°	9.8	9.5	9.5	9.5	6.5	3.2	0.0
67.5°	12.1	9.5	9.5	9.5	7.3	3.6	0.0
65°	14.4	10.4	9.5	9.5	8.0	4.0	0.0
62.5°	16.6	12.3	9.5	9.5	8.8	4.4	0.0
60°	18.8	14.1	9.5	9.5	9.5	4.7	0.0
57.5°	20.9	15.9	10.8	9.5	9.5	5.1	0.0
55°	22.9	17.6	12.2	9.5	9.5	5.4	0.0
52.5°	24.9	19.3	13.6	9.5	9.5	5.8	0.0
50°	26.9	20.9	14.9	9.5	9.5	6.1	0.0
47.5°	28.8	22.5	16.1	9.7	9.5	6.4	0.0
45°	30.6	24.0	17.3	10.6	9.5	6.7	0.0
42.5°	32.3	25.4	18.5	11.5	9.5	7.0	0.0
40°	34.0	26.8	19.5	12.3	9.5	7.3	0.0
37.5°	35.5	28.1	20.6	13.1	9.5	7.5	0.0
35°	37.0	29.3	21.6	13.8	9.5	7.8	0.0
32.5°	38.4	30.5	22.5	14.5	9.5	8.0	0.0
30°	39.7	31.6	23.4	15.2	9.5	8.2	0.0
27.5°	40.9	32.6	24.2	15.8	9.5	8.4	0.0
25°	42.1	33.5	24.9	16.3	9.5	8.6	0.0
22.5°	43.1	34.3	25.6	16.8	9.5	8.8	0.0
20°	44.0	35.1	26.2	17.3	9.5	8.9	0.0
17.5°	44.8	35.8	26.7	17.7	9.5	9.1	0.0
15°	45.5	36.4	27.2	18.0	9.5	9.2	0.0
12.5°	46.1	36.9	27.6	18.3	9.5	9.3	0.0
10°	46.6	37.3	27.9	18.6	9.5	9.4	0.0
7.5°	47.0	37.6	28.2	18.8	9.5	9.4	0.0
5°	47.3	37.8	28.4	18.9	9.5	9.5	0.0
2.5°	47.4	38.0	28.5	19.0	9.5	9.5	0.0
0°	47.5	38.0	28.5	19.0	9.5	9.5	0.0
-2.5°	47.4	38.0	28.5	19.0	9.5	9.5	0.0
-5°	47.3	37.8	28.4	18.9	9.5	9.5	0.0
-7.5°	47.0	37.6	28.2	18.8	9.5	9.4	0.0
-10°	46.6	37.3	27.9	18.6	9.5	9.4	0.0
-12.5°	46.1	36.9	27.6	18.3	9.5	9.3	0.0
-15°	45.5	36.4	27.2	18.0	9.5	9.2	0.0
-17.5°	44.8	35.8	26.7	17.7	9.5	9.1	0.0
-20°	44.0	35.1	26.2	17.3	9.5	8.9	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	43.1	34.3	25.6	16.8	9.5	8.8	0.0
-25°	42.1	33.5	24.9	16.3	9.5	8.6	0.0
-27.5°	40.9	32.6	24.2	15.8	9.5	8.4	0.0
-30°	39.7	31.6	23.4	15.2	9.5	8.2	0.0
-32.5°	38.4	30.5	22.5	14.5	9.5	8.0	0.0
-35°	37.0	29.3	21.6	13.8	9.5	7.8	0.0
-37.5°	35.5	28.1	20.6	13.1	9.5	7.5	0.0
-40°	34.0	26.8	19.5	12.3	9.5	7.3	0.0
-42.5°	32.3	25.4	18.5	11.5	9.5	7.0	0.0
-45°	30.6	24.0	17.3	10.6	9.5	6.7	0.0
-47.5°	28.8	22.5	16.1	9.7	9.5	6.4	0.0
-50°	26.9	20.9	14.9	9.5	9.5	6.1	0.0
-52.5°	24.9	19.3	13.6	9.5	9.5	5.8	0.0
-55°	22.9	17.6	12.2	9.5	9.5	5.4	0.0
-57.5°	20.9	15.9	10.8	9.5	9.5	5.1	0.0
-60°	18.8	14.1	9.5	9.5	9.5	4.7	0.0
-62.5°	16.6	12.3	9.5	9.5	8.8	4.4	0.0
-65°	14.4	10.4	9.5	9.5	8.0	4.0	0.0
-67.5°	12.1	9.5	9.5	9.5	7.3	3.6	0.0
-70°	9.8	9.5	9.5	9.5	6.5	3.2	0.0
-72.5°	9.5	9.5	9.5	8.5	5.7	2.9	0.0
-75°	9.5	9.5	9.5	7.4	4.9	2.5	0.0
-77.5°	9.5	9.5	8.2	6.2	4.1	2.1	0.0
-80°	9.5	8.2	6.6	4.9	3.3	1.6	0.0
-82.5°	7.4	6.2	4.9	3.7	2.5	1.2	0.0
-85°	4.9	4.1	3.3	2.5	1.7	0.8	0.0
-87.5°	2.5	2.1	1.6	1.2	0.8	0.4	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)