

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: P699941 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200R-40-70-4R-S**

Issue Date: 8/10/2023

**Test Information**

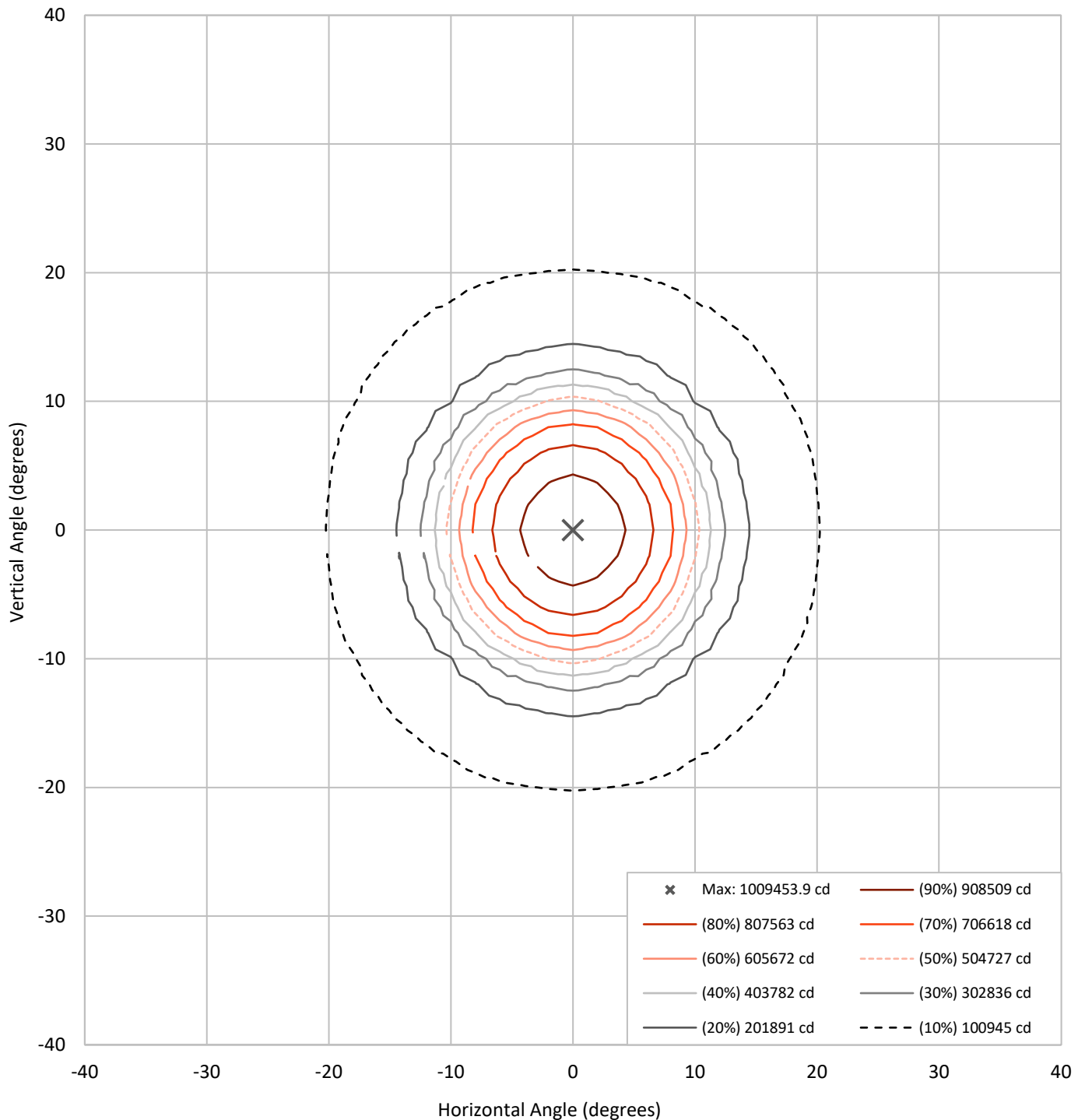
Test Method: LM-79-08  
Report Number: P699941 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-LS-16-1200R-40-70-4R-S  
Description: EPHEBUS LUMASPORT 16 LUMINAIRE  
(16) 4000K, 70 CRI LEDS AND 4R BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	196429.9 lumens	Max Intensity:	1009453.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	157.8 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	20.7°H x 20.7°V	Field Angle (10%):	40.5°H x 40.5°V
Beam Lumens:	75409.4 lumens	Field Lumens:	133100.5 lumens
Beam Efficiency:	38.4%	Field Efficiency:	67.8%
Input Watts (W):	1244.6		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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### Iso-Candela Plot





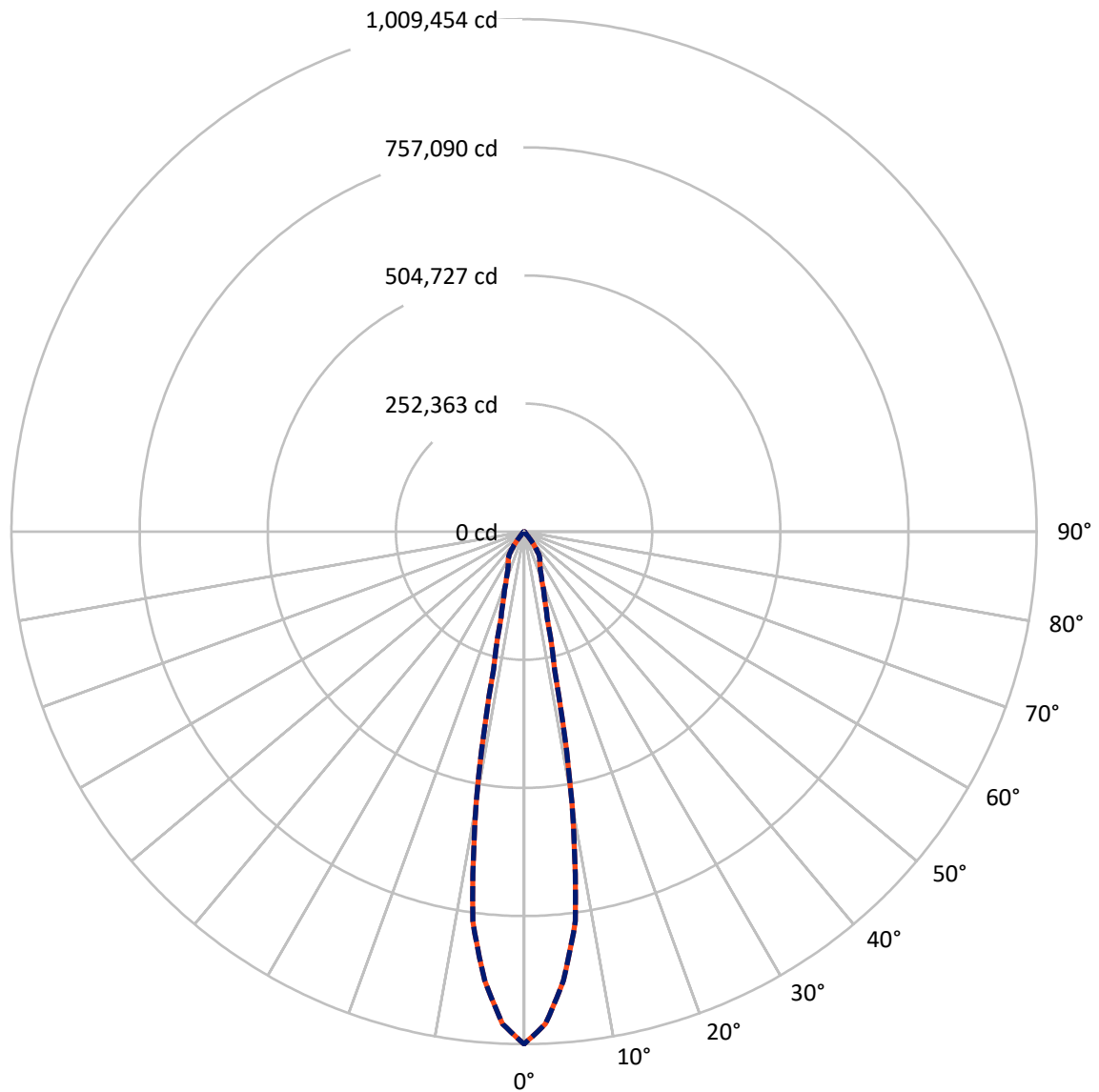
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### Lumen Table

90	0.3	1.5		3.3		5.2		6.0		5.2		3.3		1.5		0.3
80	0.3	1.5		3.3		5.2		6.0		5.2		3.3		1.5		0.3
70	0.6	0.6	1.2	2.0	3.1	4.4	5.7	6.4	6.4	5.7	4.4	3.1	2.0	1.2	0.6	0.6
60		0.9	1.9	4.0	7.7	13.0	17.8	20.5	20.5	17.8	13.0	7.7	4.0	1.9	0.9	
50	1.0	1.2	3.3	8.6	17.9	32.8	75.2	125.9	125.9	75.2	32.8	17.9	8.6	3.3	1.2	1.0
40		1.6	5.5	15.5	47.9	284.6	806.1	1178.9	1178.9	806.1	284.6	47.9	15.5	5.5	1.6	
30	1.3	2.1	8.4	25.9	260.0	1147.7	1864.6	2254.2	2254.2	1864.6	1147.7	260.0	25.9	8.4	2.1	1.3
20		2.6	10.8	56.5	692.9	1752.2	2926.2	5629.6	5629.6	2926.2	1752.2	692.9	56.5	10.8	2.6	
10	1.4	2.8	12.0	92.5	981.1	2056.5	5481.6	21136.5	21136.5	5481.6	2056.5	981.1	92.5	12.0	2.8	1.4
0		2.8	12.0	92.5	981.1	2056.5	5481.6	21136.5	21136.5	5481.6	2056.5	981.1	92.5	12.0	2.8	
-10	1.3	2.6	10.8	56.5	692.9	1752.2	2926.2	5629.6	5629.6	2926.2	1752.2	692.9	56.5	10.8	2.6	1.3
-20		2.1	8.4	25.9	260.0	1147.7	1864.6	2254.2	2254.2	1864.6	1147.7	260.0	25.9	8.4	2.1	
-30	1.0	1.6	5.5	15.5	47.9	284.6	806.1	1178.9	1178.9	806.1	284.6	47.9	15.5	5.5	1.6	1.0
-40		1.2	3.3	8.6	17.9	32.8	75.2	125.9	125.9	75.2	32.8	17.9	8.6	3.3	1.2	
-50	0.6	0.9	1.9	4.0	7.7	13.0	17.8	20.5	20.5	17.8	13.0	7.7	4.0	1.9	0.9	0.6
-60		0.6	1.2	2.0	3.1	4.4	5.7	6.4	6.4	5.7	4.4	3.1	2.0	1.2	0.6	
-70	0.3	1.5		3.3		5.2		6.0		5.2		3.3		1.5		0.3
-80		1.5		3.3		5.2		6.0		5.2		3.3		1.5		
-90	0.3	1.5		3.3		5.2		6.0		5.2		3.3		1.5		0.3

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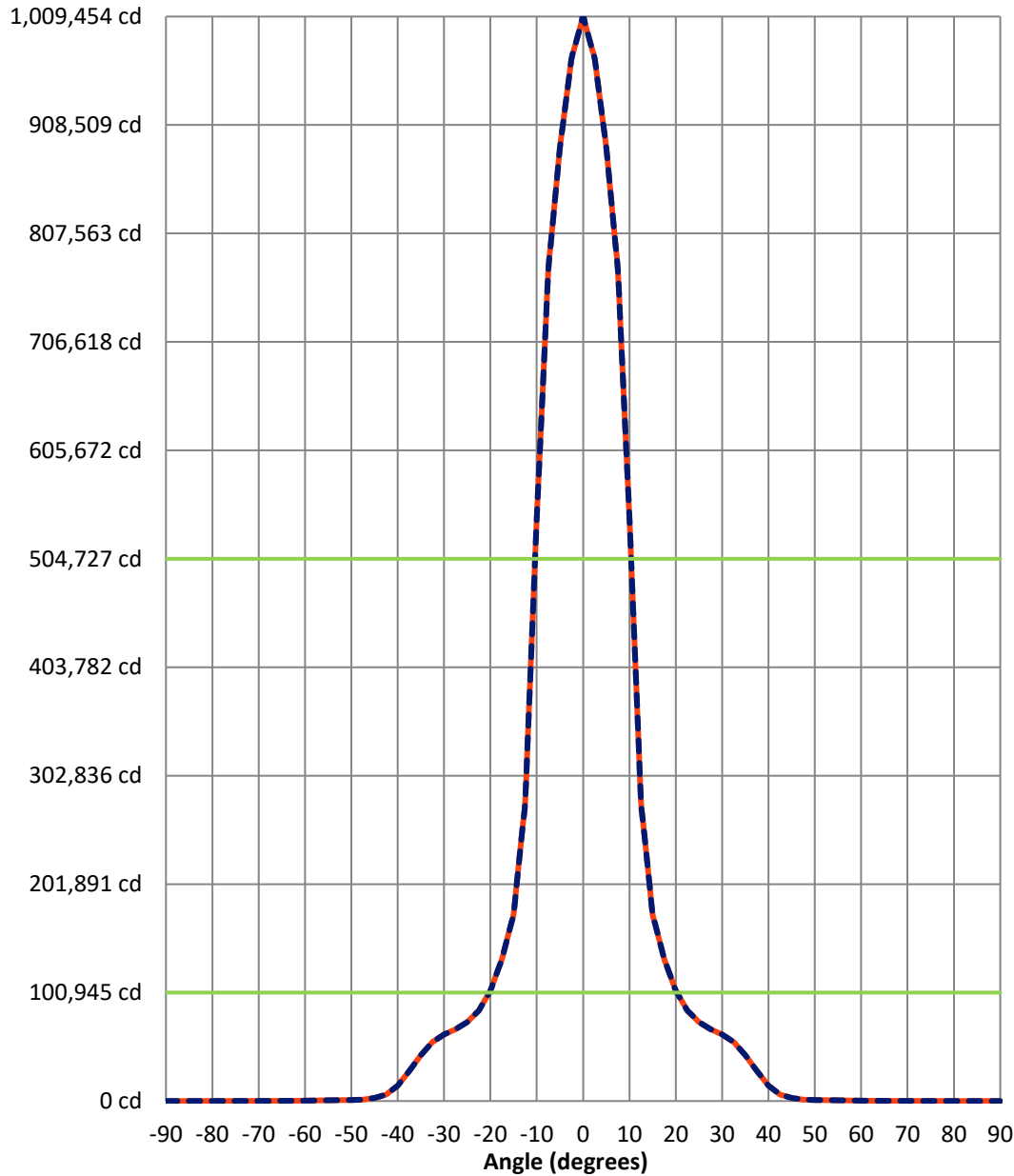
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
H Angle: 20.7°  
V Angle: 20.7°  
Lumens: 75409.4  
Efficiency: 38.4%

**Field:**  
H Angle: 40.5°  
V Angle: 40.5°  
Lumens: 133100.5  
Efficiency: 67.8%

**Spill:**  
Lumens: 63329.4  
Efficiency: 32.2%

— 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	0.7	1.4	2.2	2.9	3.6	4.3	5.0	5.7	6.4	7.0
85°	0.0	1.4	2.9	4.3	5.8	7.2	8.6	10.0	11.3	12.7	14.0
82.5°	0.0	2.2	4.3	6.5	8.6	10.7	12.9	14.9	16.8	17.7	18.5
80°	0.0	2.9	5.8	8.6	11.5	14.3	16.8	18.0	19.2	20.4	21.6
77.5°	0.0	3.6	7.2	10.7	14.3	17.1	18.7	20.2	21.7	23.2	24.8
75°	0.0	4.3	8.6	12.9	16.8	18.7	20.5	22.3	24.2	26.4	28.7
72.5°	0.0	5.0	10.0	14.9	18.0	20.2	22.3	24.6	27.3	29.9	32.5
70°	0.0	5.7	11.3	16.8	19.2	21.7	24.2	27.3	30.3	33.3	36.9
67.5°	0.0	6.4	12.7	17.7	20.4	23.2	26.4	29.9	33.3	37.4	41.4
65°	0.0	7.0	14.0	18.5	21.6	24.8	28.7	32.5	36.9	41.4	46.0
62.5°	0.0	7.7	15.3	19.4	22.7	26.6	30.8	35.4	40.4	45.5	50.8
60°	0.0	8.3	16.6	20.2	23.8	28.4	33.0	38.4	43.9	49.7	55.5
57.5°	0.0	8.9	17.1	21.0	25.2	30.1	35.5	41.4	47.5	53.9	60.9
55°	0.0	9.5	17.7	21.8	26.6	31.8	37.9	44.3	51.1	58.1	66.5
52.5°	0.0	10.1	18.2	22.6	27.9	33.5	40.3	47.3	54.6	63.1	72.0
50°	0.0	10.7	18.7	23.4	29.1	35.5	42.7	50.3	58.2	67.9	78.3
47.5°	0.0	11.2	19.2	24.1	30.4	37.3	44.9	53.1	62.4	72.5	84.5
45°	0.0	11.7	19.6	25.0	31.5	39.1	47.3	55.9	66.3	77.8	90.5
42.5°	0.0	12.2	20.1	25.8	32.7	40.9	49.6	58.9	70.1	83.0	97.3
40°	0.0	12.7	20.5	26.6	33.9	42.5	51.7	62.1	74.0	87.9	104.0
37.5°	0.0	13.2	20.9	27.4	35.1	44.1	53.8	65.1	78.2	92.9	110.4
35°	0.0	13.6	21.3	28.1	36.3	45.7	55.7	68.0	82.1	98.3	116.8
32.5°	0.0	14.0	21.6	28.8	37.4	47.2	57.7	70.7	85.8	103.4	123.6
30°	0.0	14.4	21.9	29.4	38.4	48.6	59.8	73.3	89.3	108.2	130.0
27.5°	0.0	14.7	22.2	30.0	39.4	49.9	61.8	76.1	92.8	112.7	135.9
25°	0.0	15.0	22.5	30.6	40.3	51.1	63.7	78.7	96.4	117.3	141.7
22.5°	0.0	15.3	22.8	31.1	41.1	52.2	65.3	81.1	99.7	121.7	154.3
20°	0.0	15.6	23.0	31.5	41.8	53.2	66.8	83.2	102.7	125.7	165.7
17.5°	0.0	15.8	23.2	31.9	42.5	54.1	68.2	85.1	105.3	129.3	175.8
15°	0.0	16.0	23.4	32.2	43.0	54.9	69.3	86.7	107.6	132.4	184.7
12.5°	0.0	16.2	23.6	32.5	43.5	55.5	70.3	88.1	109.6	135.0	192.2
10°	0.0	16.3	23.7	32.8	43.9	56.0	71.1	89.2	111.2	137.2	198.4
7.5°	0.0	16.5	23.8	33.0	44.2	56.5	71.8	90.1	112.5	138.9	203.3
5°	0.0	16.5	23.8	33.1	44.4	56.8	72.2	90.8	113.4	140.1	206.7
2.5°	0.0	16.6	23.9	33.2	44.6	56.9	72.5	91.2	113.9	140.9	208.8
0°	0.0	16.6	23.9	33.2	44.6	56.9	72.5	91.2	113.9	140.9	208.8
-2.5°	0.0	16.6	23.9	33.2	44.6	56.9	72.5	91.2	113.9	140.9	208.8
-5°	0.0	16.5	23.8	33.1	44.4	56.8	72.2	90.8	113.4	140.1	206.7
-7.5°	0.0	16.5	23.8	33.0	44.2	56.5	71.8	90.1	112.5	138.9	203.3
-10°	0.0	16.3	23.7	32.8	43.9	56.0	71.1	89.2	111.2	137.2	198.4
-12.5°	0.0	16.2	23.6	32.5	43.5	55.5	70.3	88.1	109.6	135.0	192.2
-15°	0.0	16.0	23.4	32.2	43.0	54.9	69.3	86.7	107.6	132.4	184.7
-17.5°	0.0	15.8	23.2	31.9	42.5	54.1	68.2	85.1	105.3	129.3	175.8
-20°	0.0	15.6	23.0	31.5	41.8	53.2	66.8	83.2	102.7	125.7	165.7



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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	15.3	22.8	31.1	41.1	52.2	65.3	81.1	99.7	121.7	154.3
-25°	0.0	15.0	22.5	30.6	40.3	51.1	63.7	78.7	96.4	117.3	141.7
-27.5°	0.0	14.7	22.2	30.0	39.4	49.9	61.8	76.1	92.8	112.7	135.9
-30°	0.0	14.4	21.9	29.4	38.4	48.6	59.8	73.3	89.3	108.2	130.0
-32.5°	0.0	14.0	21.6	28.8	37.4	47.2	57.7	70.7	85.8	103.4	123.6
-35°	0.0	13.6	21.3	28.1	36.3	45.7	55.7	68.0	82.1	98.3	116.8
-37.5°	0.0	13.2	20.9	27.4	35.1	44.1	53.8	65.1	78.2	92.9	110.4
-40°	0.0	12.7	20.5	26.6	33.9	42.5	51.7	62.1	74.0	87.9	104.0
-42.5°	0.0	12.2	20.1	25.8	32.7	40.9	49.6	58.9	70.1	83.0	97.3
-45°	0.0	11.7	19.6	25.0	31.5	39.1	47.3	55.9	66.3	77.8	90.5
-47.5°	0.0	11.2	19.2	24.1	30.4	37.3	44.9	53.1	62.4	72.5	84.5
-50°	0.0	10.7	18.7	23.4	29.1	35.5	42.7	50.3	58.2	67.9	78.3
-52.5°	0.0	10.1	18.2	22.6	27.9	33.5	40.3	47.3	54.6	63.1	72.0
-55°	0.0	9.5	17.7	21.8	26.6	31.8	37.9	44.3	51.1	58.1	66.5
-57.5°	0.0	8.9	17.1	21.0	25.2	30.1	35.5	41.4	47.5	53.9	60.9
-60°	0.0	8.3	16.6	20.2	23.8	28.4	33.0	38.4	43.9	49.7	55.5
-62.5°	0.0	7.7	15.3	19.4	22.7	26.6	30.8	35.4	40.4	45.5	50.8
-65°	0.0	7.0	14.0	18.5	21.6	24.8	28.7	32.5	36.9	41.4	46.0
-67.5°	0.0	6.4	12.7	17.7	20.4	23.2	26.4	29.9	33.3	37.4	41.4
-70°	0.0	5.7	11.3	16.8	19.2	21.7	24.2	27.3	30.3	33.3	36.9
-72.5°	0.0	5.0	10.0	14.9	18.0	20.2	22.3	24.6	27.3	29.9	32.5
-75°	0.0	4.3	8.6	12.9	16.8	18.7	20.5	22.3	24.2	26.4	28.7
-77.5°	0.0	3.6	7.2	10.7	14.3	17.1	18.7	20.2	21.7	23.2	24.8
-80°	0.0	2.9	5.8	8.6	11.5	14.3	16.8	18.0	19.2	20.4	21.6
-82.5°	0.0	2.2	4.3	6.5	8.6	10.7	12.9	14.9	16.8	17.7	18.5
-85°	0.0	1.4	2.9	4.3	5.8	7.2	8.6	10.0	11.3	12.7	14.0
-87.5°	0.0	0.7	1.4	2.2	2.9	3.6	4.3	5.0	5.7	6.4	7.0
-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°	7.7	8.3	8.9	9.5	10.1	10.7	11.2	11.7	12.2	12.7	13.2
85°	15.3	16.6	17.1	17.7	18.2	18.7	19.2	19.6	20.1	20.5	20.9
82.5°	19.4	20.2	21.0	21.8	22.6	23.4	24.1	25.0	25.8	26.6	27.4
80°	22.7	23.8	25.2	26.6	27.9	29.1	30.4	31.5	32.7	33.9	35.1
77.5°	26.6	28.4	30.1	31.8	33.5	35.5	37.3	39.1	40.9	42.5	44.1
75°	30.8	33.0	35.5	37.9	40.3	42.7	44.9	47.3	49.6	51.7	53.8
72.5°	35.4	38.4	41.4	44.3	47.3	50.3	53.1	55.9	58.9	62.1	65.1
70°	40.4	43.9	47.5	51.1	54.6	58.2	62.4	66.3	70.1	74.0	78.2
67.5°	45.5	49.7	53.9	58.1	63.1	67.9	72.5	77.8	83.0	87.9	92.9
65°	50.8	55.5	60.9	66.5	72.0	78.3	84.5	90.5	97.3	104.0	110.4
62.5°	56.1	62.3	68.6	75.3	82.5	89.5	97.5	105.5	113.2	121.8	130.2
60°	62.3	69.3	77.0	85.1	93.3	102.7	111.8	121.7	131.7	141.7	164.9
57.5°	68.6	77.0	85.9	95.4	105.8	116.3	128.0	139.3	164.0	190.5	214.8
55°	75.3	85.1	95.4	106.9	118.8	131.8	149.3	180.2	209.9	233.8	256.7
52.5°	82.5	93.3	105.8	118.8	133.0	155.8	189.9	220.8	247.6	278.0	319.8
50°	89.5	102.7	116.3	131.8	155.8	193.2	226.4	256.0	297.0	343.7	408.2
47.5°	97.5	111.8	128.0	149.3	189.9	226.4	258.8	306.6	358.1	442.9	528.0
45°	105.5	121.7	139.3	180.2	220.8	256.0	306.6	363.0	460.3	555.6	651.4
42.5°	113.2	131.7	164.0	209.9	247.6	297.0	358.1	460.3	565.0	670.4	757.0
40°	121.8	141.7	190.5	233.8	278.0	343.7	442.9	555.6	670.4	764.1	843.5
37.5°	130.2	164.9	214.8	256.7	319.8	408.2	528.0	651.4	757.0	843.5	908.0
35°	138.1	187.0	234.9	286.8	359.6	484.3	613.6	735.6	829.0	902.4	1026.0
32.5°	152.6	207.9	254.0	321.8	424.1	557.8	695.5	800.1	885.6	984.1	1240.6
30°	170.4	224.5	275.5	354.7	487.3	629.8	757.5	857.9	935.1	1176.6	1881.2
27.5°	187.0	239.8	303.7	402.8	547.3	697.4	811.1	901.5	1071.3	1505.9	2719.5
25°	202.4	254.0	329.9	453.4	605.2	748.1	857.7	942.2	1230.4	2241.8	4096.2
22.5°	215.3	267.1	353.8	499.9	658.5	790.6	892.5	1063.6	1588.1	2955.4	5531.8
20°	225.8	286.8	385.2	542.4	706.9	829.3	924.2	1188.3	2168.6	4180.2	8337.9
17.5°	235.3	304.4	419.5	582.0	740.7	859.9	964.8	1300.3	2691.0	5285.2	11574.4
15°	243.5	319.8	449.6	616.7	768.6	882.8	1055.7	1680.0	3400.1	6741.5	14495.9
12.5°	250.5	332.9	475.2	646.3	792.4	902.5	1133.6	2045.0	4175.6	9024.4	18527.1
10°	256.3	343.7	496.3	670.8	812.1	918.8	1198.0	2347.2	4818.8	10921.3	21884.1
7.5°	260.8	352.1	512.8	689.9	827.5	931.5	1248.6	2584.5	5324.6	12415.5	24533.4
5°	264.0	358.1	524.6	703.6	838.5	940.6	1284.9	2755.3	5689.0	13493.1	26447.0
2.5°	266.0	361.8	531.7	711.8	845.2	946.2	1306.8	2858.3	5908.9	14144.0	27604.0
0°	266.6	363.0	534.1	714.6	847.4	948.0	1314.1	2892.7	5982.4	14361.7	27991.1
-2.5°	266.0	361.8	531.7	711.8	845.2	946.2	1306.8	2858.3	5908.9	14144.0	27604.0
-5°	264.0	358.1	524.6	703.6	838.5	940.6	1284.9	2755.3	5689.0	13493.1	26447.0
-7.5°	260.8	352.1	512.8	689.9	827.5	931.5	1248.6	2584.5	5324.6	12415.5	24533.4
-10°	256.3	343.7	496.3	670.8	812.1	918.8	1198.0	2347.2	4818.8	10921.3	21884.1
-12.5°	250.5	332.9	475.2	646.3	792.4	902.5	1133.6	2045.0	4175.6	9024.4	18527.1
-15°	243.5	319.8	449.6	616.7	768.6	882.8	1055.7	1680.0	3400.1	6741.5	14495.9
-17.5°	235.3	304.4	419.5	582.0	740.7	859.9	964.8	1300.3	2691.0	5285.2	11574.4
-20°	225.8	286.8	385.2	542.4	706.9	829.3	924.2	1188.3	2168.6	4180.2	8337.9



REPORT NUMBER: P699941 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-4R-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	215.3	267.1	353.8	499.9	658.5	790.6	892.5	1063.6	1588.1	2955.4	5531.8
-25°	202.4	254.0	329.9	453.4	605.2	748.1	857.7	942.2	1230.4	2241.8	4096.2
-27.5°	187.0	239.8	303.7	402.8	547.3	697.4	811.1	901.5	1071.3	1505.9	2719.5
-30°	170.4	224.5	275.5	354.7	487.3	629.8	757.5	857.9	935.1	1176.6	1881.2
-32.5°	152.6	207.9	254.0	321.8	424.1	557.8	695.5	800.1	885.6	984.1	1240.6
-35°	138.1	187.0	234.9	286.8	359.6	484.3	613.6	735.6	829.0	902.4	1026.0
-37.5°	130.2	164.9	214.8	256.7	319.8	408.2	528.0	651.4	757.0	843.5	908.0
-40°	121.8	141.7	190.5	233.8	278.0	343.7	442.9	555.6	670.4	764.1	843.5
-42.5°	113.2	131.7	164.0	209.9	247.6	297.0	358.1	460.3	565.0	670.4	757.0
-45°	105.5	121.7	139.3	180.2	220.8	256.0	306.6	363.0	460.3	555.6	651.4
-47.5°	97.5	111.8	128.0	149.3	189.9	226.4	258.8	306.6	358.1	442.9	528.0
-50°	89.5	102.7	116.3	131.8	155.8	193.2	226.4	256.0	297.0	343.7	408.2
-52.5°	82.5	93.3	105.8	118.8	133.0	155.8	189.9	220.8	247.6	278.0	319.8
-55°	75.3	85.1	95.4	106.9	118.8	131.8	149.3	180.2	209.9	233.8	256.7
-57.5°	68.6	77.0	85.9	95.4	105.8	116.3	128.0	139.3	164.0	190.5	214.8
-60°	62.3	69.3	77.0	85.1	93.3	102.7	111.8	121.7	131.7	141.7	164.9
-62.5°	56.1	62.3	68.6	75.3	82.5	89.5	97.5	105.5	113.2	121.8	130.2
-65°	50.8	55.5	60.9	66.5	72.0	78.3	84.5	90.5	97.3	104.0	110.4
-67.5°	45.5	49.7	53.9	58.1	63.1	67.9	72.5	77.8	83.0	87.9	92.9
-70°	40.4	43.9	47.5	51.1	54.6	58.2	62.4	66.3	70.1	74.0	78.2
-72.5°	35.4	38.4	41.4	44.3	47.3	50.3	53.1	55.9	58.9	62.1	65.1
-75°	30.8	33.0	35.5	37.9	40.3	42.7	44.9	47.3	49.6	51.7	53.8
-77.5°	26.6	28.4	30.1	31.8	33.5	35.5	37.3	39.1	40.9	42.5	44.1
-80°	22.7	23.8	25.2	26.6	27.9	29.1	30.4	31.5	32.7	33.9	35.1
-82.5°	19.4	20.2	21.0	21.8	22.6	23.4	24.1	25.0	25.8	26.6	27.4
-85°	15.3	16.6	17.1	17.7	18.2	18.7	19.2	19.6	20.1	20.5	20.9
-87.5°	7.7	8.3	8.9	9.5	10.1	10.7	11.2	11.7	12.2	12.7	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: P699941 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-4R-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°	13.6	14.0	14.4	14.7	15.0	15.3	15.6	15.8	16.0	16.2	16.3
85°	21.3	21.6	21.9	22.2	22.5	22.8	23.0	23.2	23.4	23.6	23.7
82.5°	28.1	28.8	29.4	30.0	30.6	31.1	31.5	31.9	32.2	32.5	32.8
80°	36.3	37.4	38.4	39.4	40.3	41.1	41.8	42.5	43.0	43.5	43.9
77.5°	45.7	47.2	48.6	49.9	51.1	52.2	53.2	54.1	54.9	55.5	56.0
75°	55.7	57.7	59.8	61.8	63.7	65.3	66.8	68.2	69.3	70.3	71.1
72.5°	68.0	70.7	73.3	76.1	78.7	81.1	83.2	85.1	86.7	88.1	89.2
70°	82.1	85.8	89.3	92.8	96.4	99.7	102.7	105.3	107.6	109.6	111.2
67.5°	98.3	103.4	108.2	112.7	117.3	121.7	125.7	129.3	132.4	135.0	137.2
65°	116.8	123.6	130.0	135.9	141.7	154.3	165.7	175.8	184.7	192.2	198.4
62.5°	138.1	152.6	170.4	187.0	202.4	215.3	225.8	235.3	243.5	250.5	256.3
60°	187.0	207.9	224.5	239.8	254.0	267.1	286.8	304.4	319.8	332.9	343.7
57.5°	234.9	254.0	275.5	303.7	329.9	353.8	385.2	419.5	449.6	475.2	496.3
55°	286.8	321.8	354.7	402.8	453.4	499.9	542.4	582.0	616.7	646.3	670.8
52.5°	359.6	424.1	487.3	547.3	605.2	658.5	706.9	740.7	768.6	792.4	812.1
50°	484.3	557.8	629.8	697.4	748.1	790.6	829.3	859.9	882.8	902.5	918.8
47.5°	613.6	695.5	757.5	811.1	857.7	892.5	924.2	964.8	1055.7	1133.6	1198.0
45°	735.6	800.1	857.9	901.5	942.2	1063.6	1188.3	1300.3	1680.0	2045.0	2347.2
42.5°	829.0	885.6	935.1	1071.3	1230.4	1588.1	2168.6	2691.0	3400.1	4175.6	4818.8
40°	902.4	984.1	1176.6	1505.9	2241.8	2955.4	4180.2	5285.2	6741.5	9024.4	10921.3
37.5°	1026.0	1240.6	1881.2	2719.5	4096.2	5531.8	8337.9	11574.4	14495.9	18527.1	21884.1
35°	1262.1	2071.0	3123.4	4872.4	7445.7	11622.4	16169.2	21853.4	26909.2	31548.2	35492.8
32.5°	2071.0	3314.8	5265.3	9085.5	13862.9	20831.1	27568.3	34156.1	40066.7	44778.1	48350.6
30°	3123.4	5265.3	9637.0	15398.6	23684.7	31755.0	39569.9	46036.2	51357.8	55538.6	57796.9
27.5°	4872.4	9085.5	15398.6	24645.7	33899.9	42860.6	49833.0	55678.1	59018.5	61948.6	63674.0
25°	7445.7	13862.9	23684.7	33899.9	43791.6	51768.2	57420.3	61424.6	64112.6	66340.2	68709.5
22.5°	11622.4	20831.1	31755.0	42860.6	51768.2	58009.4	62444.3	65452.2	68662.5	71956.8	75571.9
20°	16169.2	27568.3	39569.9	49833.0	57420.3	62444.3	65906.6	69952.4	74292.6	80156.3	85940.5
17.5°	21853.4	34156.1	46036.2	55678.1	61424.6	65452.2	69952.4	75413.3	82533.0	92434.4	102159.5
15°	26909.2	40066.7	51357.8	59018.5	64112.6	68662.5	74292.6	82533.0	94661.8	109428.4	126784.3
12.5°	31548.2	44778.1	55538.6	61948.6	66340.2	71956.8	80156.3	92434.4	109428.4	130999.7	157881.0
10°	35492.8	48350.6	57796.9	63674.0	68709.5	75571.9	85940.5	102159.5	126784.3	157881.0	197460.8
7.5°	38613.0	51184.2	59594.3	65049.8	70762.1	79268.2	93067.4	114627.6	145022.7	185797.5	279765.8
5°	40870.8	53239.2	60901.3	66053.8	72266.6	81993.2	98362.4	124246.0	160617.0	222865.8	399663.9
2.5°	42237.5	54485.1	61695.3	66665.2	73185.7	83664.9	101629.7	130229.9	170435.6	260113.1	504271.1
0°	42695.1	54902.6	61961.6	66870.5	73494.9	84228.6	102734.8	132263.1	173794.5	278074.7	542560.3
-2.5°	42237.5	54485.1	61695.3	66665.2	73185.7	83664.9	101629.7	130229.9	170435.6	260113.1	504271.1
-5°	40870.8	53239.2	60901.3	66053.8	72266.6	81993.2	98362.4	124246.0	160617.0	222865.8	399663.9
-7.5°	38613.0	51184.2	59594.3	65049.8	70762.1	79268.2	93067.4	114627.6	145022.7	185797.5	279765.8
-10°	35492.8	48350.6	57796.9	63674.0	68709.5	75571.9	85940.5	102159.5	126784.3	157881.0	197460.8
-12.5°	31548.2	44778.1	55538.6	61948.6	66340.2	71956.8	80156.3	92434.4	109428.4	130999.7	157881.0
-15°	26909.2	40066.7	51357.8	59018.5	64112.6	68662.5	74292.6	82533.0	94661.8	109428.4	126784.3
-17.5°	21853.4	34156.1	46036.2	55678.1	61424.6	65452.2	69952.4	75413.3	82533.0	92434.4	102159.5
-20°	16169.2	27568.3	39569.9	49833.0	57420.3	62444.3	65906.6	69952.4	74292.6	80156.3	85940.5



REPORT NUMBER: P699941 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-4R-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	11622.4	20831.1	31755.0	42860.6	51768.2	58009.4	62444.3	65452.2	68662.5	71956.8	75571.9
-25°	7445.7	13862.9	23684.7	33899.9	43791.6	51768.2	57420.3	61424.6	64112.6	66340.2	68709.5
-27.5°	4872.4	9085.5	15398.6	24645.7	33899.9	42860.6	49833.0	55678.1	59018.5	61948.6	63674.0
-30°	3123.4	5265.3	9637.0	15398.6	23684.7	31755.0	39569.9	46036.2	51357.8	55538.6	57796.9
-32.5°	2071.0	3314.8	5265.3	9085.5	13862.9	20831.1	27568.3	34156.1	40066.7	44778.1	48350.6
-35°	1262.1	2071.0	3123.4	4872.4	7445.7	11622.4	16169.2	21853.4	26909.2	31548.2	35492.8
-37.5°	1026.0	1240.6	1881.2	2719.5	4096.2	5531.8	8337.9	11574.4	14495.9	18527.1	21884.1
-40°	902.4	984.1	1176.6	1505.9	2241.8	2955.4	4180.2	5285.2	6741.5	9024.4	10921.3
-42.5°	829.0	885.6	935.1	1071.3	1230.4	1588.1	2168.6	2691.0	3400.1	4175.6	4818.8
-45°	735.6	800.1	857.9	901.5	942.2	1063.6	1188.3	1300.3	1680.0	2045.0	2347.2
-47.5°	613.6	695.5	757.5	811.1	857.7	892.5	924.2	964.8	1055.7	1133.6	1198.0
-50°	484.3	557.8	629.8	697.4	748.1	790.6	829.3	859.9	882.8	902.5	918.8
-52.5°	359.6	424.1	487.3	547.3	605.2	658.5	706.9	740.7	768.6	792.4	812.1
-55°	286.8	321.8	354.7	402.8	453.4	499.9	542.4	582.0	616.7	646.3	670.8
-57.5°	234.9	254.0	275.5	303.7	329.9	353.8	385.2	419.5	449.6	475.2	496.3
-60°	187.0	207.9	224.5	239.8	254.0	267.1	286.8	304.4	319.8	332.9	343.7
-62.5°	138.1	152.6	170.4	187.0	202.4	215.3	225.8	235.3	243.5	250.5	256.3
-65°	116.8	123.6	130.0	135.9	141.7	154.3	165.7	175.8	184.7	192.2	198.4
-67.5°	98.3	103.4	108.2	112.7	117.3	121.7	125.7	129.3	132.4	135.0	137.2
-70°	82.1	85.8	89.3	92.8	96.4	99.7	102.7	105.3	107.6	109.6	111.2
-72.5°	68.0	70.7	73.3	76.1	78.7	81.1	83.2	85.1	86.7	88.1	89.2
-75°	55.7	57.7	59.8	61.8	63.7	65.3	66.8	68.2	69.3	70.3	71.1
-77.5°	45.7	47.2	48.6	49.9	51.1	52.2	53.2	54.1	54.9	55.5	56.0
-80°	36.3	37.4	38.4	39.4	40.3	41.1	41.8	42.5	43.0	43.5	43.9
-82.5°	28.1	28.8	29.4	30.0	30.6	31.1	31.5	31.9	32.2	32.5	32.8
-85°	21.3	21.6	21.9	22.2	22.5	22.8	23.0	23.2	23.4	23.6	23.7
-87.5°	13.6	14.0	14.4	14.7	15.0	15.3	15.6	15.8	16.0	16.2	16.3
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699941 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-4R-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°	16.5	16.5	16.6	16.6	16.6	16.5	16.5	16.3	16.2	16.0	15.8
85°	23.8	23.8	23.9	23.9	23.9	23.8	23.8	23.7	23.6	23.4	23.2
82.5°	33.0	33.1	33.2	33.2	33.2	33.1	33.0	32.8	32.5	32.2	31.9
80°	44.2	44.4	44.6	44.6	44.6	44.4	44.2	43.9	43.5	43.0	42.5
77.5°	56.5	56.8	56.9	57.0	56.9	56.8	56.5	56.0	55.5	54.9	54.1
75°	71.8	72.2	72.5	72.6	72.5	72.2	71.8	71.1	70.3	69.3	68.2
72.5°	90.1	90.8	91.2	91.3	91.2	90.8	90.1	89.2	88.1	86.7	85.1
70°	112.5	113.4	113.9	114.1	113.9	113.4	112.5	111.2	109.6	107.6	105.3
67.5°	138.9	140.1	140.9	141.1	140.9	140.1	138.9	137.2	135.0	132.4	129.3
65°	203.3	206.7	208.8	209.5	208.8	206.7	203.3	198.4	192.2	184.7	175.8
62.5°	260.8	264.0	266.0	266.6	266.0	264.0	260.8	256.3	250.5	243.5	235.3
60°	352.1	358.1	361.8	363.0	361.8	358.1	352.1	343.7	332.9	319.8	304.4
57.5°	512.8	524.6	531.7	534.1	531.7	524.6	512.8	496.3	475.2	449.6	419.5
55°	689.9	703.6	711.8	714.6	711.8	703.6	689.9	670.8	646.3	616.7	582.0
52.5°	827.5	838.5	845.2	847.4	845.2	838.5	827.5	812.1	792.4	768.6	740.7
50°	931.5	940.6	946.2	948.0	946.2	940.6	931.5	918.8	902.5	882.8	859.9
47.5°	1248.6	1284.9	1306.8	1314.1	1306.8	1284.9	1248.6	1198.0	1133.6	1055.7	964.8
45°	2584.5	2755.3	2858.3	2892.7	2858.3	2755.3	2584.5	2347.2	2045.0	1680.0	1300.3
42.5°	5324.6	5689.0	5908.9	5982.4	5908.9	5689.0	5324.6	4818.8	4175.6	3400.1	2691.0
40°	12415.5	13493.1	14144.0	14361.7	14144.0	13493.1	12415.5	10921.3	9024.4	6741.5	5285.2
37.5°	24533.4	26447.0	27604.0	27991.1	27604.0	26447.0	24533.4	21884.1	18527.1	14495.9	11574.4
35°	38613.0	40870.8	42237.5	42695.1	42237.5	40870.8	38613.0	35492.8	31548.2	26909.2	21853.4
32.5°	51184.2	53239.2	54485.1	54902.6	54485.1	53239.2	51184.2	48350.6	44778.1	40066.7	34156.1
30°	59594.3	60901.3	61695.3	61961.6	61695.3	60901.3	59594.3	57796.9	55538.6	51357.8	46036.2
27.5°	65049.8	66053.8	66665.2	66870.5	66665.2	66053.8	65049.8	63674.0	61948.6	59018.5	55678.1
25°	70762.1	72266.6	73185.7	73494.9	73185.7	72266.6	70762.1	68709.5	66340.2	64112.6	61424.6
22.5°	79268.2	81993.2	83664.9	84228.6	83664.9	81993.2	79268.2	75571.9	71956.8	68662.5	65452.2
20°	93067.4	98362.4	101629.7	102734.8	101629.7	98362.4	93067.4	85940.5	80156.3	74292.6	69952.4
17.5°	114627.6	124246.0	130229.9	132263.1	130229.9	124246.0	114627.6	102159.5	92434.4	82533.0	75413.3
15°	145022.7	160617.0	170435.6	173794.5	170435.6	160617.0	145022.7	126784.3	109428.4	94661.8	82533.0
12.5°	185797.5	222865.8	260113.1	278074.7	260113.1	222865.8	185797.5	157881.0	130999.7	109428.4	92434.4
10°	279765.8	399663.9	504271.1	542560.3	504271.1	399663.9	279765.8	197460.8	157881.0	126784.3	102159.5
7.5°	468237.2	662439.7	750964.8	773855.0	750964.8	662439.7	468237.2	279765.8	185797.5	145022.7	114627.6
5°	662439.7	798446.9	864153.8	887632.0	864153.8	798446.9	662439.7	399663.9	222865.8	160617.0	124246.0
2.5°	750964.8	864153.8	939073.7	970261.8	939073.7	864153.8	750964.8	504271.1	260113.1	170435.6	130229.9
0°	773855.0	887632.0	970261.8	#####	970261.8	887632.0	773855.0	542560.3	278074.7	173794.5	132263.1
-2.5°	750964.8	864153.8	939073.7	970261.8	939073.7	864153.8	750964.8	504271.1	260113.1	170435.6	130229.9
-5°	662439.7	798446.9	864153.8	887632.0	864153.8	798446.9	662439.7	399663.9	222865.8	160617.0	124246.0
-7.5°	468237.2	662439.7	750964.8	773855.0	750964.8	662439.7	468237.2	279765.8	185797.5	145022.7	114627.6
-10°	279765.8	399663.9	504271.1	542560.3	504271.1	399663.9	279765.8	197460.8	157881.0	126784.3	102159.5
-12.5°	185797.5	222865.8	260113.1	278074.7	260113.1	222865.8	185797.5	157881.0	130999.7	109428.4	92434.4
-15°	145022.7	160617.0	170435.6	173794.5	170435.6	160617.0	145022.7	126784.3	109428.4	94661.8	82533.0
-17.5°	114627.6	124246.0	130229.9	132263.1	130229.9	124246.0	114627.6	102159.5	92434.4	82533.0	75413.3
-20°	93067.4	98362.4	101629.7	102734.8	101629.7	98362.4	93067.4	85940.5	80156.3	74292.6	69952.4



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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°	79268.2	81993.2	83664.9	84228.6	83664.9	81993.2	79268.2	75571.9	71956.8	68662.5	65452.2
-25°	70762.1	72266.6	73185.7	73494.9	73185.7	72266.6	70762.1	68709.5	66340.2	64112.6	61424.6
-27.5°	65049.8	66053.8	66665.2	66870.5	66665.2	66053.8	65049.8	63674.0	61948.6	59018.5	55678.1
-30°	59594.3	60901.3	61695.3	61961.6	61695.3	60901.3	59594.3	57796.9	55538.6	51357.8	46036.2
-32.5°	51184.2	53239.2	54485.1	54902.6	54485.1	53239.2	51184.2	48350.6	44778.1	40066.7	34156.1
-35°	38613.0	40870.8	42237.5	42695.1	42237.5	40870.8	38613.0	35492.8	31548.2	26909.2	21853.4
-37.5°	24533.4	26447.0	27604.0	27991.1	27604.0	26447.0	24533.4	21884.1	18527.1	14495.9	11574.4
-40°	12415.5	13493.1	14144.0	14361.7	14144.0	13493.1	12415.5	10921.3	9024.4	6741.5	5285.2
-42.5°	5324.6	5689.0	5908.9	5982.4	5908.9	5689.0	5324.6	4818.8	4175.6	3400.1	2691.0
-45°	2584.5	2755.3	2858.3	2892.7	2858.3	2755.3	2584.5	2347.2	2045.0	1680.0	1300.3
-47.5°	1248.6	1284.9	1306.8	1314.1	1306.8	1284.9	1248.6	1198.0	1133.6	1055.7	964.8
-50°	931.5	940.6	946.2	948.0	946.2	940.6	931.5	918.8	902.5	882.8	859.9
-52.5°	827.5	838.5	845.2	847.4	845.2	838.5	827.5	812.1	792.4	768.6	740.7
-55°	689.9	703.6	711.8	714.6	711.8	703.6	689.9	670.8	646.3	616.7	582.0
-57.5°	512.8	524.6	531.7	534.1	531.7	524.6	512.8	496.3	475.2	449.6	419.5
-60°	352.1	358.1	361.8	363.0	361.8	358.1	352.1	343.7	332.9	319.8	304.4
-62.5°	260.8	264.0	266.0	266.6	266.0	264.0	260.8	256.3	250.5	243.5	235.3
-65°	203.3	206.7	208.8	209.5	208.8	206.7	203.3	198.4	192.2	184.7	175.8
-67.5°	138.9	140.1	140.9	141.1	140.9	140.1	138.9	137.2	135.0	132.4	129.3
-70°	112.5	113.4	113.9	114.1	113.9	113.4	112.5	111.2	109.6	107.6	105.3
-72.5°	90.1	90.8	91.2	91.3	91.2	90.8	90.1	89.2	88.1	86.7	85.1
-75°	71.8	72.2	72.5	72.6	72.5	72.2	71.8	71.1	70.3	69.3	68.2
-77.5°	56.5	56.8	56.9	57.0	56.9	56.8	56.5	56.0	55.5	54.9	54.1
-80°	44.2	44.4	44.6	44.6	44.6	44.4	44.2	43.9	43.5	43.0	42.5
-82.5°	33.0	33.1	33.2	33.2	33.2	33.1	33.0	32.8	32.5	32.2	31.9
-85°	23.8	23.8	23.9	23.9	23.9	23.8	23.8	23.7	23.6	23.4	23.2
-87.5°	16.5	16.5	16.6	16.6	16.6	16.5	16.5	16.3	16.2	16.0	15.8
-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°	15.6	15.3	15.0	14.7	14.4	14.0	13.6	13.2	12.7	12.2	11.7
85°	23.0	22.8	22.5	22.2	21.9	21.6	21.3	20.9	20.5	20.1	19.6
82.5°	31.5	31.1	30.6	30.0	29.4	28.8	28.1	27.4	26.6	25.8	25.0
80°	41.8	41.1	40.3	39.4	38.4	37.4	36.3	35.1	33.9	32.7	31.5
77.5°	53.2	52.2	51.1	49.9	48.6	47.2	45.7	44.1	42.5	40.9	39.1
75°	66.8	65.3	63.7	61.8	59.8	57.7	55.7	53.8	51.7	49.6	47.3
72.5°	83.2	81.1	78.7	76.1	73.3	70.7	68.0	65.1	62.1	58.9	55.9
70°	102.7	99.7	96.4	92.8	89.3	85.8	82.1	78.2	74.0	70.1	66.3
67.5°	125.7	121.7	117.3	112.7	108.2	103.4	98.3	92.9	87.9	83.0	77.8
65°	165.7	154.3	141.7	135.9	130.0	123.6	116.8	110.4	104.0	97.3	90.5
62.5°	225.8	215.3	202.4	187.0	170.4	152.6	138.1	130.2	121.8	113.2	105.5
60°	286.8	267.1	254.0	239.8	224.5	207.9	187.0	164.9	141.7	131.7	121.7
57.5°	385.2	353.8	329.9	303.7	275.5	254.0	234.9	214.8	190.5	164.0	139.3
55°	542.4	499.9	453.4	402.8	354.7	321.8	286.8	256.7	233.8	209.9	180.2
52.5°	706.9	658.5	605.2	547.3	487.3	424.1	359.6	319.8	278.0	247.6	220.8
50°	829.3	790.6	748.1	697.4	629.8	557.8	484.3	408.2	343.7	297.0	256.0
47.5°	924.2	892.5	857.7	811.1	757.5	695.5	613.6	528.0	442.9	358.1	306.6
45°	1188.3	1063.6	942.2	901.5	857.9	800.1	735.6	651.4	555.6	460.3	363.0
42.5°	2168.6	1588.1	1230.4	1071.3	935.1	885.6	829.0	757.0	670.4	565.0	460.3
40°	4180.2	2955.4	2241.8	1505.9	1176.6	984.1	902.4	843.5	764.1	670.4	555.6
37.5°	8337.9	5531.8	4096.2	2719.5	1881.2	1240.6	1026.0	908.0	843.5	757.0	651.4
35°	16169.2	11622.4	7445.7	4872.4	3123.4	2071.0	1262.1	1026.0	902.4	829.0	735.6
32.5°	27568.3	20831.1	13862.9	9085.5	5265.3	3314.8	2071.0	1240.6	984.1	885.6	800.1
30°	39569.9	31755.0	23684.7	15398.6	9637.0	5265.3	3123.4	1881.2	1176.6	935.1	857.9
27.5°	49833.0	42860.6	33899.9	24645.7	15398.6	9085.5	4872.4	2719.5	1505.9	1071.3	901.5
25°	57420.3	51768.2	43791.6	33899.9	23684.7	13862.9	7445.7	4096.2	2241.8	1230.4	942.2
22.5°	62444.3	58009.4	51768.2	42860.6	31755.0	20831.1	11622.4	5531.8	2955.4	1588.1	1063.6
20°	65906.6	62444.3	57420.3	49833.0	39569.9	27568.3	16169.2	8337.9	4180.2	2168.6	1188.3
17.5°	69952.4	65452.2	61424.6	55678.1	46036.2	34156.1	21853.4	11574.4	5285.2	2691.0	1300.3
15°	74292.6	68662.5	64112.6	59018.5	51357.8	40066.7	26909.2	14495.9	6741.5	3400.1	1680.0
12.5°	80156.3	71956.8	66340.2	61948.6	55538.6	44778.1	31548.2	18527.1	9024.4	4175.6	2045.0
10°	85940.5	75571.9	68709.5	63674.0	57796.9	48350.6	35492.8	21884.1	10921.3	4818.8	2347.2
7.5°	93067.4	79268.2	70762.1	65049.8	59594.3	51184.2	38613.0	24533.4	12415.5	5324.6	2584.5
5°	98362.4	81993.2	72266.6	66053.8	60901.3	53239.2	40870.8	26447.0	13493.1	5689.0	2755.3
2.5°	101629.7	83664.9	73185.7	66665.2	61695.3	54485.1	42237.5	27604.0	14144.0	5908.9	2858.3
0°	102734.8	84228.6	73494.9	66870.5	61961.6	54902.6	42695.1	27991.1	14361.7	5982.4	2892.7
-2.5°	101629.7	83664.9	73185.7	66665.2	61695.3	54485.1	42237.5	27604.0	14144.0	5908.9	2858.3
-5°	98362.4	81993.2	72266.6	66053.8	60901.3	53239.2	40870.8	26447.0	13493.1	5689.0	2755.3
-7.5°	93067.4	79268.2	70762.1	65049.8	59594.3	51184.2	38613.0	24533.4	12415.5	5324.6	2584.5
-10°	85940.5	75571.9	68709.5	63674.0	57796.9	48350.6	35492.8	21884.1	10921.3	4818.8	2347.2
-12.5°	80156.3	71956.8	66340.2	61948.6	55538.6	44778.1	31548.2	18527.1	9024.4	4175.6	2045.0
-15°	74292.6	68662.5	64112.6	59018.5	51357.8	40066.7	26909.2	14495.9	6741.5	3400.1	1680.0
-17.5°	69952.4	65452.2	61424.6	55678.1	46036.2	34156.1	21853.4	11574.4	5285.2	2691.0	1300.3
-20°	65906.6	62444.3	57420.3	49833.0	39569.9	27568.3	16169.2	8337.9	4180.2	2168.6	1188.3



REPORT NUMBER: P699941 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-4R-S

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	62444.3	58009.4	51768.2	42860.6	31755.0	20831.1	11622.4	5531.8	2955.4	1588.1	1063.6
-25°	57420.3	51768.2	43791.6	33899.9	23684.7	13862.9	7445.7	4096.2	2241.8	1230.4	942.2
-27.5°	49833.0	42860.6	33899.9	24645.7	15398.6	9085.5	4872.4	2719.5	1505.9	1071.3	901.5
-30°	39569.9	31755.0	23684.7	15398.6	9637.0	5265.3	3123.4	1881.2	1176.6	935.1	857.9
-32.5°	27568.3	20831.1	13862.9	9085.5	5265.3	3314.8	2071.0	1240.6	984.1	885.6	800.1
-35°	16169.2	11622.4	7445.7	4872.4	3123.4	2071.0	1262.1	1026.0	902.4	829.0	735.6
-37.5°	8337.9	5531.8	4096.2	2719.5	1881.2	1240.6	1026.0	908.0	843.5	757.0	651.4
-40°	4180.2	2955.4	2241.8	1505.9	1176.6	984.1	902.4	843.5	764.1	670.4	555.6
-42.5°	2168.6	1588.1	1230.4	1071.3	935.1	885.6	829.0	757.0	670.4	565.0	460.3
-45°	1188.3	1063.6	942.2	901.5	857.9	800.1	735.6	651.4	555.6	460.3	363.0
-47.5°	924.2	892.5	857.7	811.1	757.5	695.5	613.6	528.0	442.9	358.1	306.6
-50°	829.3	790.6	748.1	697.4	629.8	557.8	484.3	408.2	343.7	297.0	256.0
-52.5°	706.9	658.5	605.2	547.3	487.3	424.1	359.6	319.8	278.0	247.6	220.8
-55°	542.4	499.9	453.4	402.8	354.7	321.8	286.8	256.7	233.8	209.9	180.2
-57.5°	385.2	353.8	329.9	303.7	275.5	254.0	234.9	214.8	190.5	164.0	139.3
-60°	286.8	267.1	254.0	239.8	224.5	207.9	187.0	164.9	141.7	131.7	121.7
-62.5°	225.8	215.3	202.4	187.0	170.4	152.6	138.1	130.2	121.8	113.2	105.5
-65°	165.7	154.3	141.7	135.9	130.0	123.6	116.8	110.4	104.0	97.3	90.5
-67.5°	125.7	121.7	117.3	112.7	108.2	103.4	98.3	92.9	87.9	83.0	77.8
-70°	102.7	99.7	96.4	92.8	89.3	85.8	82.1	78.2	74.0	70.1	66.3
-72.5°	83.2	81.1	78.7	76.1	73.3	70.7	68.0	65.1	62.1	58.9	55.9
-75°	66.8	65.3	63.7	61.8	59.8	57.7	55.7	53.8	51.7	49.6	47.3
-77.5°	53.2	52.2	51.1	49.9	48.6	47.2	45.7	44.1	42.5	40.9	39.1
-80°	41.8	41.1	40.3	39.4	38.4	37.4	36.3	35.1	33.9	32.7	31.5
-82.5°	31.5	31.1	30.6	30.0	29.4	28.8	28.1	27.4	26.6	25.8	25.0
-85°	23.0	22.8	22.5	22.2	21.9	21.6	21.3	20.9	20.5	20.1	19.6
-87.5°	15.6	15.3	15.0	14.7	14.4	14.0	13.6	13.2	12.7	12.2	11.7
-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: P699941 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-4R-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°	11.2	10.7	10.1	9.5	8.9	8.3	7.7	7.0	6.4	5.7	5.0
85°	19.2	18.7	18.2	17.7	17.1	16.6	15.3	14.0	12.7	11.3	10.0
82.5°	24.1	23.4	22.6	21.8	21.0	20.2	19.4	18.5	17.7	16.8	14.9
80°	30.4	29.1	27.9	26.6	25.2	23.8	22.7	21.6	20.4	19.2	18.0
77.5°	37.3	35.5	33.5	31.8	30.1	28.4	26.6	24.8	23.2	21.7	20.2
75°	44.9	42.7	40.3	37.9	35.5	33.0	30.8	28.7	26.4	24.2	22.3
72.5°	53.1	50.3	47.3	44.3	41.4	38.4	35.4	32.5	29.9	27.3	24.6
70°	62.4	58.2	54.6	51.1	47.5	43.9	40.4	36.9	33.3	30.3	27.3
67.5°	72.5	67.9	63.1	58.1	53.9	49.7	45.5	41.4	37.4	33.3	29.9
65°	84.5	78.3	72.0	66.5	60.9	55.5	50.8	46.0	41.4	36.9	32.5
62.5°	97.5	89.5	82.5	75.3	68.6	62.3	56.1	50.8	45.5	40.4	35.4
60°	111.8	102.7	93.3	85.1	77.0	69.3	62.3	55.5	49.7	43.9	38.4
57.5°	128.0	116.3	105.8	95.4	85.9	77.0	68.6	60.9	53.9	47.5	41.4
55°	149.3	131.8	118.8	106.9	95.4	85.1	75.3	66.5	58.1	51.1	44.3
52.5°	189.9	155.8	133.0	118.8	105.8	93.3	82.5	72.0	63.1	54.6	47.3
50°	226.4	193.2	155.8	131.8	116.3	102.7	89.5	78.3	67.9	58.2	50.3
47.5°	258.8	226.4	189.9	149.3	128.0	111.8	97.5	84.5	72.5	62.4	53.1
45°	306.6	256.0	220.8	180.2	139.3	121.7	105.5	90.5	77.8	66.3	55.9
42.5°	358.1	297.0	247.6	209.9	164.0	131.7	113.2	97.3	83.0	70.1	58.9
40°	442.9	343.7	278.0	233.8	190.5	141.7	121.8	104.0	87.9	74.0	62.1
37.5°	528.0	408.2	319.8	256.7	214.8	164.9	130.2	110.4	92.9	78.2	65.1
35°	613.6	484.3	359.6	286.8	234.9	187.0	138.1	116.8	98.3	82.1	68.0
32.5°	695.5	557.8	424.1	321.8	254.0	207.9	152.6	123.6	103.4	85.8	70.7
30°	757.5	629.8	487.3	354.7	275.5	224.5	170.4	130.0	108.2	89.3	73.3
27.5°	811.1	697.4	547.3	402.8	303.7	239.8	187.0	135.9	112.7	92.8	76.1
25°	857.7	748.1	605.2	453.4	329.9	254.0	202.4	141.7	117.3	96.4	78.7
22.5°	892.5	790.6	658.5	499.9	353.8	267.1	215.3	154.3	121.7	99.7	81.1
20°	924.2	829.3	706.9	542.4	385.2	286.8	225.8	165.7	125.7	102.7	83.2
17.5°	964.8	859.9	740.7	582.0	419.5	304.4	235.3	175.8	129.3	105.3	85.1
15°	1055.7	882.8	768.6	616.7	449.6	319.8	243.5	184.7	132.4	107.6	86.7
12.5°	1133.6	902.5	792.4	646.3	475.2	332.9	250.5	192.2	135.0	109.6	88.1
10°	1198.0	918.8	812.1	670.8	496.3	343.7	256.3	198.4	137.2	111.2	89.2
7.5°	1248.6	931.5	827.5	689.9	512.8	352.1	260.8	203.3	138.9	112.5	90.1
5°	1284.9	940.6	838.5	703.6	524.6	358.1	264.0	206.7	140.1	113.4	90.8
2.5°	1306.8	946.2	845.2	711.8	531.7	361.8	266.0	208.8	140.9	113.9	91.2
0°	1314.1	948.0	847.4	714.6	534.1	363.0	266.6	209.5	141.1	114.1	91.3
-2.5°	1306.8	946.2	845.2	711.8	531.7	361.8	266.0	208.8	140.9	113.9	91.2
-5°	1284.9	940.6	838.5	703.6	524.6	358.1	264.0	206.7	140.1	113.4	90.8
-7.5°	1248.6	931.5	827.5	689.9	512.8	352.1	260.8	203.3	138.9	112.5	90.1
-10°	1198.0	918.8	812.1	670.8	496.3	343.7	256.3	198.4	137.2	111.2	89.2
-12.5°	1133.6	902.5	792.4	646.3	475.2	332.9	250.5	192.2	135.0	109.6	88.1
-15°	1055.7	882.8	768.6	616.7	449.6	319.8	243.5	184.7	132.4	107.6	86.7
-17.5°	964.8	859.9	740.7	582.0	419.5	304.4	235.3	175.8	129.3	105.3	85.1
-20°	924.2	829.3	706.9	542.4	385.2	286.8	225.8	165.7	125.7	102.7	83.2



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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°	892.5	790.6	658.5	499.9	353.8	267.1	215.3	154.3	121.7	99.7	81.1
-25°	857.7	748.1	605.2	453.4	329.9	254.0	202.4	141.7	117.3	96.4	78.7
-27.5°	811.1	697.4	547.3	402.8	303.7	239.8	187.0	135.9	112.7	92.8	76.1
-30°	757.5	629.8	487.3	354.7	275.5	224.5	170.4	130.0	108.2	89.3	73.3
-32.5°	695.5	557.8	424.1	321.8	254.0	207.9	152.6	123.6	103.4	85.8	70.7
-35°	613.6	484.3	359.6	286.8	234.9	187.0	138.1	116.8	98.3	82.1	68.0
-37.5°	528.0	408.2	319.8	256.7	214.8	164.9	130.2	110.4	92.9	78.2	65.1
-40°	442.9	343.7	278.0	233.8	190.5	141.7	121.8	104.0	87.9	74.0	62.1
-42.5°	358.1	297.0	247.6	209.9	164.0	131.7	113.2	97.3	83.0	70.1	58.9
-45°	306.6	256.0	220.8	180.2	139.3	121.7	105.5	90.5	77.8	66.3	55.9
-47.5°	258.8	226.4	189.9	149.3	128.0	111.8	97.5	84.5	72.5	62.4	53.1
-50°	226.4	193.2	155.8	131.8	116.3	102.7	89.5	78.3	67.9	58.2	50.3
-52.5°	189.9	155.8	133.0	118.8	105.8	93.3	82.5	72.0	63.1	54.6	47.3
-55°	149.3	131.8	118.8	106.9	95.4	85.1	75.3	66.5	58.1	51.1	44.3
-57.5°	128.0	116.3	105.8	95.4	85.9	77.0	68.6	60.9	53.9	47.5	41.4
-60°	111.8	102.7	93.3	85.1	77.0	69.3	62.3	55.5	49.7	43.9	38.4
-62.5°	97.5	89.5	82.5	75.3	68.6	62.3	56.1	50.8	45.5	40.4	35.4
-65°	84.5	78.3	72.0	66.5	60.9	55.5	50.8	46.0	41.4	36.9	32.5
-67.5°	72.5	67.9	63.1	58.1	53.9	49.7	45.5	41.4	37.4	33.3	29.9
-70°	62.4	58.2	54.6	51.1	47.5	43.9	40.4	36.9	33.3	30.3	27.3
-72.5°	53.1	50.3	47.3	44.3	41.4	38.4	35.4	32.5	29.9	27.3	24.6
-75°	44.9	42.7	40.3	37.9	35.5	33.0	30.8	28.7	26.4	24.2	22.3
-77.5°	37.3	35.5	33.5	31.8	30.1	28.4	26.6	24.8	23.2	21.7	20.2
-80°	30.4	29.1	27.9	26.6	25.2	23.8	22.7	21.6	20.4	19.2	18.0
-82.5°	24.1	23.4	22.6	21.8	21.0	20.2	19.4	18.5	17.7	16.8	14.9
-85°	19.2	18.7	18.2	17.7	17.1	16.6	15.3	14.0	12.7	11.3	10.0
-87.5°	11.2	10.7	10.1	9.5	8.9	8.3	7.7	7.0	6.4	5.7	5.0
-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):**

	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°	4.3	3.6	2.9	2.2	1.4	0.7	0.0
85°	8.6	7.2	5.8	4.3	2.9	1.4	0.0
82.5°	12.9	10.7	8.6	6.5	4.3	2.2	0.0
80°	16.8	14.3	11.5	8.6	5.8	2.9	0.0
77.5°	18.7	17.1	14.3	10.7	7.2	3.6	0.0
75°	20.5	18.7	16.8	12.9	8.6	4.3	0.0
72.5°	22.3	20.2	18.0	14.9	10.0	5.0	0.0
70°	24.2	21.7	19.2	16.8	11.3	5.7	0.0
67.5°	26.4	23.2	20.4	17.7	12.7	6.4	0.0
65°	28.7	24.8	21.6	18.5	14.0	7.0	0.0
62.5°	30.8	26.6	22.7	19.4	15.3	7.7	0.0
60°	33.0	28.4	23.8	20.2	16.6	8.3	0.0
57.5°	35.5	30.1	25.2	21.0	17.1	8.9	0.0
55°	37.9	31.8	26.6	21.8	17.7	9.5	0.0
52.5°	40.3	33.5	27.9	22.6	18.2	10.1	0.0
50°	42.7	35.5	29.1	23.4	18.7	10.7	0.0
47.5°	44.9	37.3	30.4	24.1	19.2	11.2	0.0
45°	47.3	39.1	31.5	25.0	19.6	11.7	0.0
42.5°	49.6	40.9	32.7	25.8	20.1	12.2	0.0
40°	51.7	42.5	33.9	26.6	20.5	12.7	0.0
37.5°	53.8	44.1	35.1	27.4	20.9	13.2	0.0
35°	55.7	45.7	36.3	28.1	21.3	13.6	0.0
32.5°	57.7	47.2	37.4	28.8	21.6	14.0	0.0
30°	59.8	48.6	38.4	29.4	21.9	14.4	0.0
27.5°	61.8	49.9	39.4	30.0	22.2	14.7	0.0
25°	63.7	51.1	40.3	30.6	22.5	15.0	0.0
22.5°	65.3	52.2	41.1	31.1	22.8	15.3	0.0
20°	66.8	53.2	41.8	31.5	23.0	15.6	0.0
17.5°	68.2	54.1	42.5	31.9	23.2	15.8	0.0
15°	69.3	54.9	43.0	32.2	23.4	16.0	0.0
12.5°	70.3	55.5	43.5	32.5	23.6	16.2	0.0
10°	71.1	56.0	43.9	32.8	23.7	16.3	0.0
7.5°	71.8	56.5	44.2	33.0	23.8	16.5	0.0
5°	72.2	56.8	44.4	33.1	23.8	16.5	0.0
2.5°	72.5	56.9	44.6	33.2	23.9	16.6	0.0
0°	72.6	57.0	44.6	33.2	23.9	16.6	0.0
-2.5°	72.5	56.9	44.6	33.2	23.9	16.6	0.0
-5°	72.2	56.8	44.4	33.1	23.8	16.5	0.0
-7.5°	71.8	56.5	44.2	33.0	23.8	16.5	0.0
-10°	71.1	56.0	43.9	32.8	23.7	16.3	0.0
-12.5°	70.3	55.5	43.5	32.5	23.6	16.2	0.0
-15°	69.3	54.9	43.0	32.2	23.4	16.0	0.0
-17.5°	68.2	54.1	42.5	31.9	23.2	15.8	0.0
-20°	66.8	53.2	41.8	31.5	23.0	15.6	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	65.3	52.2	41.1	31.1	22.8	15.3	0.0
-25°	63.7	51.1	40.3	30.6	22.5	15.0	0.0
-27.5°	61.8	49.9	39.4	30.0	22.2	14.7	0.0
-30°	59.8	48.6	38.4	29.4	21.9	14.4	0.0
-32.5°	57.7	47.2	37.4	28.8	21.6	14.0	0.0
-35°	55.7	45.7	36.3	28.1	21.3	13.6	0.0
-37.5°	53.8	44.1	35.1	27.4	20.9	13.2	0.0
-40°	51.7	42.5	33.9	26.6	20.5	12.7	0.0
-42.5°	49.6	40.9	32.7	25.8	20.1	12.2	0.0
-45°	47.3	39.1	31.5	25.0	19.6	11.7	0.0
-47.5°	44.9	37.3	30.4	24.1	19.2	11.2	0.0
-50°	42.7	35.5	29.1	23.4	18.7	10.7	0.0
-52.5°	40.3	33.5	27.9	22.6	18.2	10.1	0.0
-55°	37.9	31.8	26.6	21.8	17.7	9.5	0.0
-57.5°	35.5	30.1	25.2	21.0	17.1	8.9	0.0
-60°	33.0	28.4	23.8	20.2	16.6	8.3	0.0
-62.5°	30.8	26.6	22.7	19.4	15.3	7.7	0.0
-65°	28.7	24.8	21.6	18.5	14.0	7.0	0.0
-67.5°	26.4	23.2	20.4	17.7	12.7	6.4	0.0
-70°	24.2	21.7	19.2	16.8	11.3	5.7	0.0
-72.5°	22.3	20.2	18.0	14.9	10.0	5.0	0.0
-75°	20.5	18.7	16.8	12.9	8.6	4.3	0.0
-77.5°	18.7	17.1	14.3	10.7	7.2	3.6	0.0
-80°	16.8	14.3	11.5	8.6	5.8	2.9	0.0
-82.5°	12.9	10.7	8.6	6.5	4.3	2.2	0.0
-85°	8.6	7.2	5.8	4.3	2.9	1.4	0.0
-87.5°	4.3	3.6	2.9	2.2	1.4	0.7	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)