

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: P699939 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200R-40-70-3R-S**

Issue Date: 8/10/2023

**Test Information**

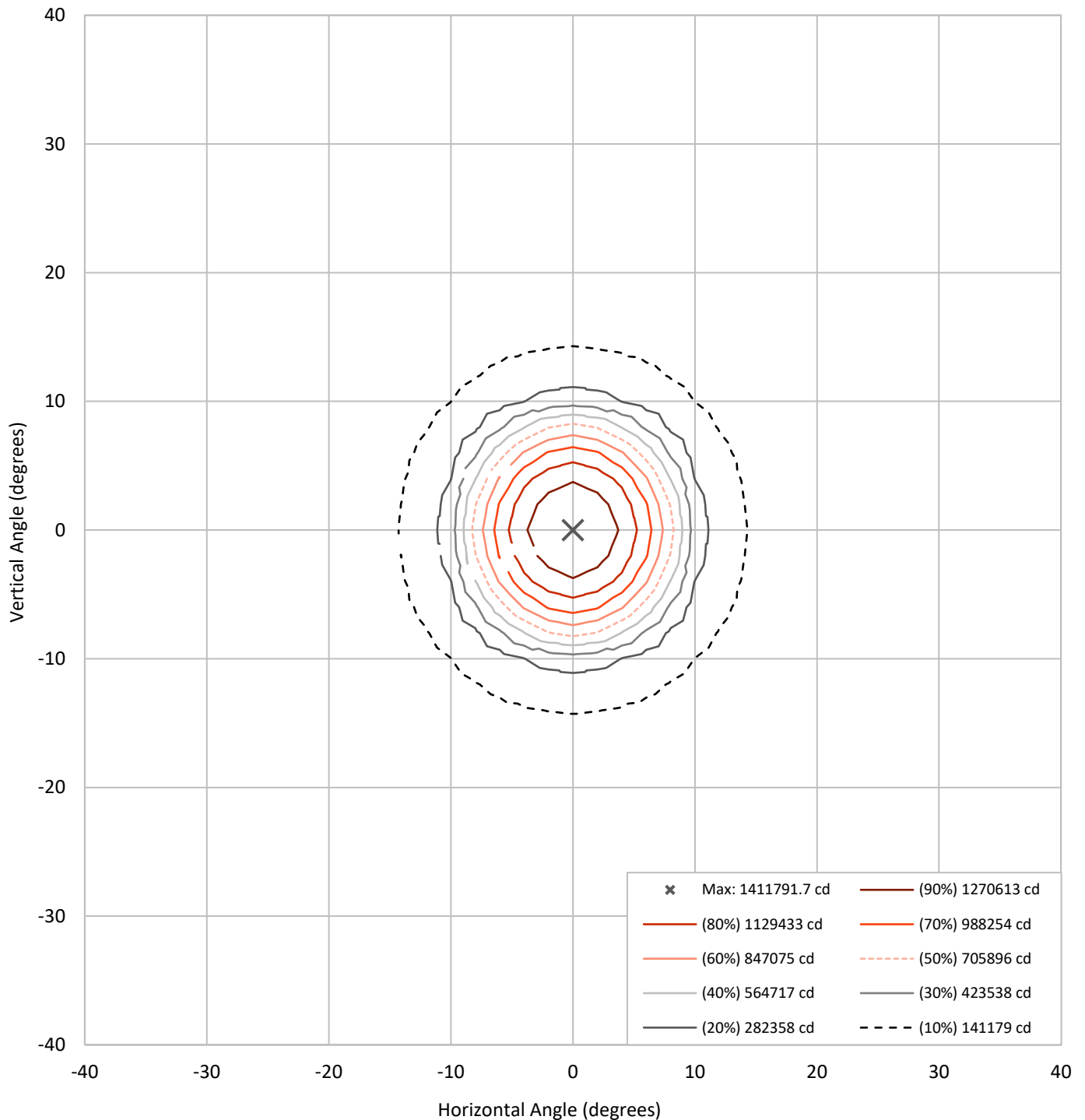
Test Method: LM-79-08  
Report Number: P699939 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-50)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-LS-16-1200R-40-70-3R-S  
Description: EPHEBUS LUMASPORT 16 LUMINAIRE  
(16) 4000K, 70 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:	179262.9 lumens	Max Intensity:	1411791.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	139.1 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:	65550.8 lumens	Field Lumens:	106560 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



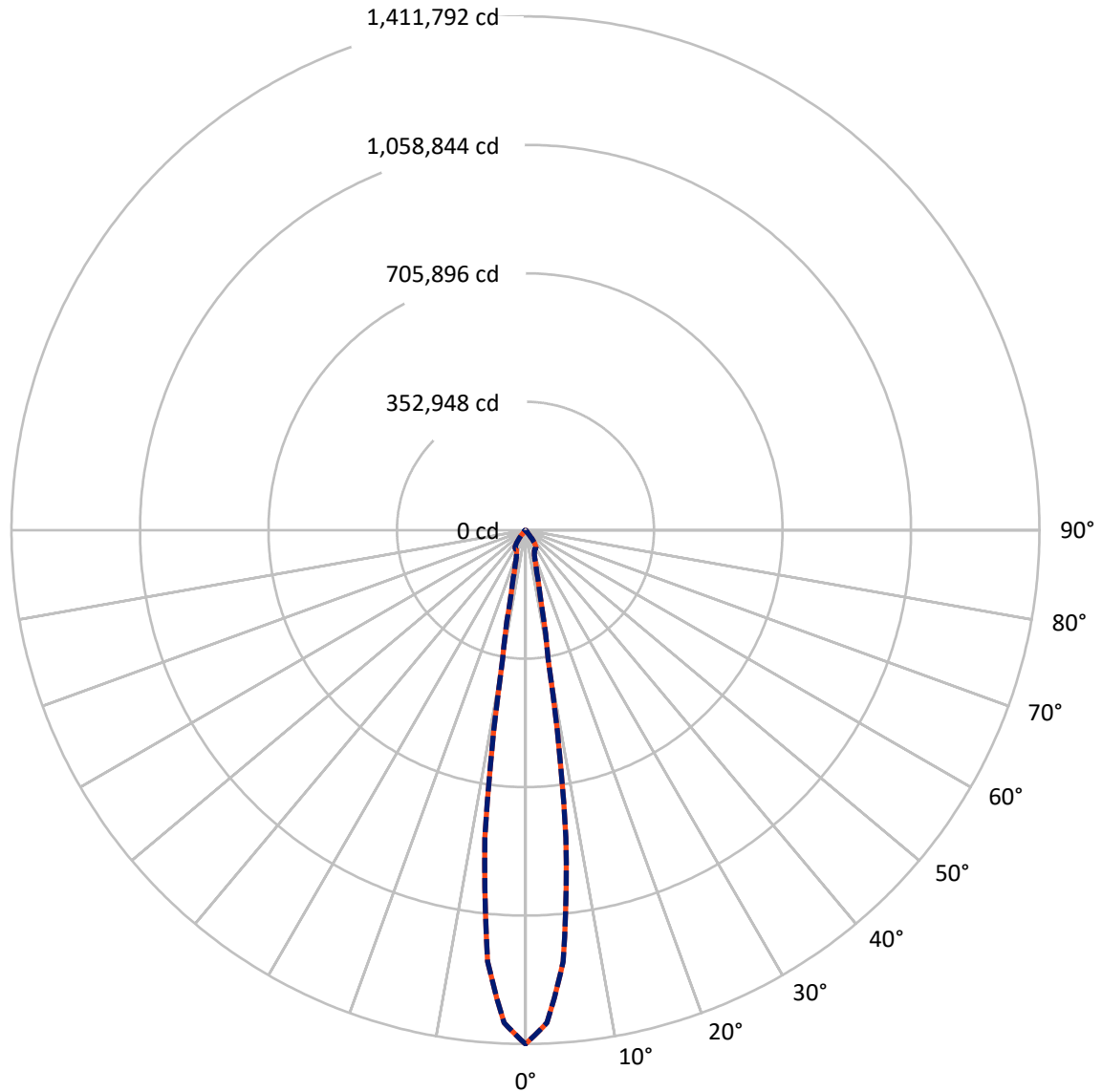
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### Lumen Table

90	0.1	0.9	2.2	3.6	4.2	3.6	2.2	0.9	0.1							
80	0.1	0.9	2.2	3.6	4.2	3.6	2.2	0.9	0.1							
70	0.4	0.4	0.9	1.5	2.3	3.4	4.3	4.8	4.8	4.3	3.4	2.3	1.5	0.9	0.4	0.4
60		0.6	1.4	3.1	6.0	11.0	16.3	19.4	19.4	16.3	11.0	6.0	3.1	1.4	0.6	
50	0.7	0.9	2.5	6.9	17.0	27.6	56.7	94.3	94.3	56.7	27.6	17.0	6.9	2.5	0.9	0.7
40		1.2	4.2	14.7	36.5	233.6	746.0	1112.9	1112.9	746.0	233.6	36.5	14.7	4.2	1.2	
30	0.9	1.6	7.1	21.7	213.6	1088.2	1649.0	1829.4	1829.4	1649.0	1088.2	213.6	21.7	7.1	1.6	0.9
20		1.9	9.9	42.5	642.3	1548.3	2111.6	3803.9	3803.9	2111.6	1548.3	642.3	42.5	9.9	1.9	
10	1.0	2.1	11.4	69.3	926.9	1666.3	3703.6	23023.1	23023.1	3703.6	1666.3	926.9	69.3	11.4	2.1	1.0
0		2.1	11.4	69.3	926.9	1666.3	3703.6	23023.1	23023.1	3703.6	1666.3	926.9	69.3	11.4	2.1	
-10	0.9	1.9	9.9	42.5	642.3	1548.3	2111.6	3803.9	3803.9	2111.6	1548.3	642.3	42.5	9.9	1.9	0.9
-20		1.6	7.1	21.7	213.6	1088.2	1649.0	1829.4	1829.4	1649.0	1088.2	213.6	21.7	7.1	1.6	
-30	0.7	1.2	4.2	14.7	36.5	233.6	746.0	1112.9	1112.9	746.0	233.6	36.5	14.7	4.2	1.2	0.7
-40		0.9	2.5	6.9	17.0	27.6	56.7	94.3	94.3	56.7	27.6	17.0	6.9	2.5	0.9	
-50	0.4	0.6	1.4	3.1	6.0	11.0	16.3	19.4	19.4	16.3	11.0	6.0	3.1	1.4	0.6	0.4
-60		0.4	0.9	1.5	2.3	3.4	4.3	4.8	4.8	4.3	3.4	2.3	1.5	0.9	0.4	
-70	0.1	0.9	2.2	3.6	4.2	3.6	2.2	0.9	0.1							
-80		0.1	0.9	2.2	3.6	4.2	3.6	2.2	0.9	0.1						
-90	0.1	0.9	2.2	3.6	4.2	3.6	2.2	0.9	0.1							

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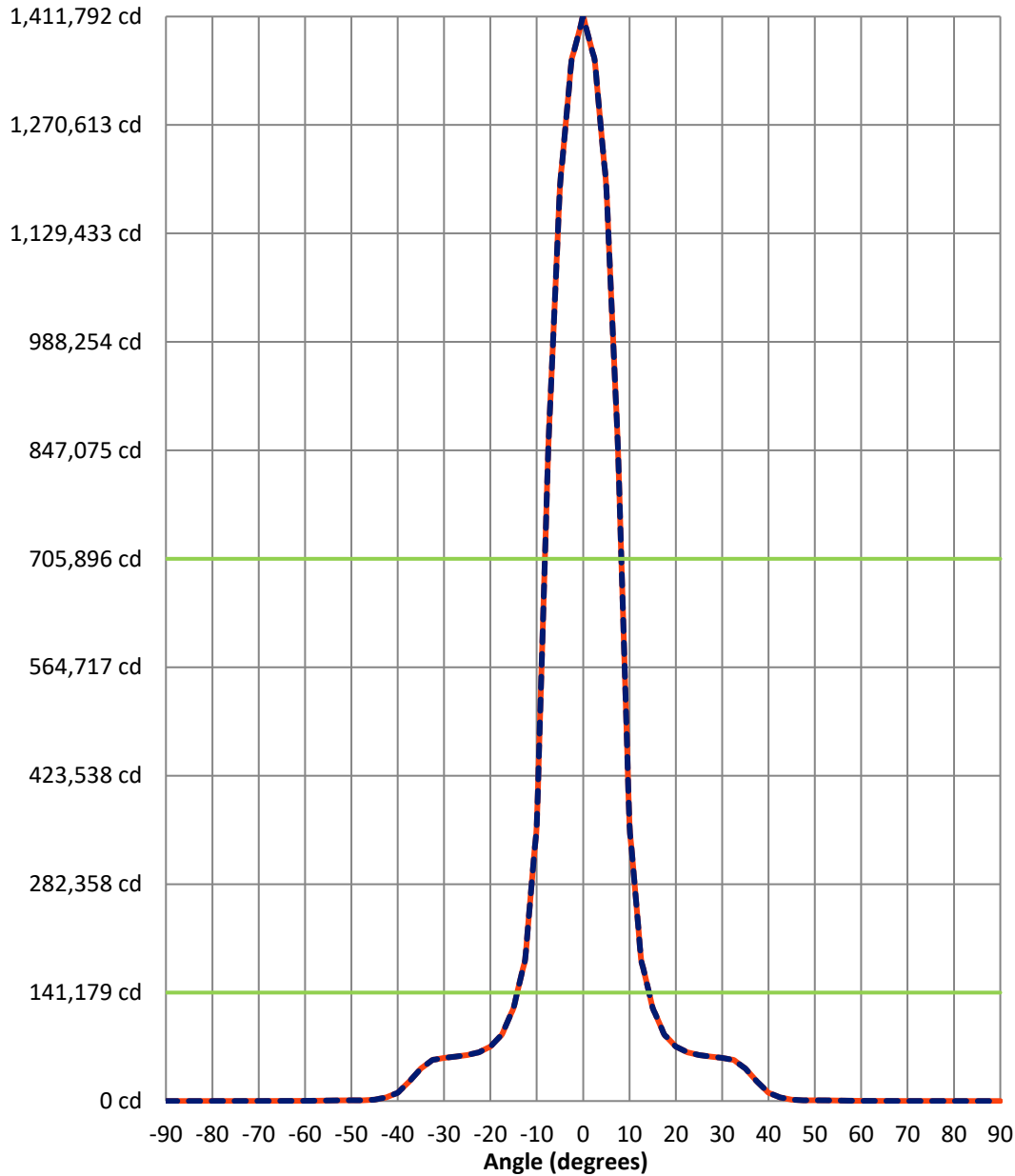
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 16.5°  
 V Angle: 16.5°  
 Lumens: 65550.8  
 Efficiency: 36.6%

**Field:**  
 H Angle: 28.4°  
 V Angle: 28.4°  
 Lumens: 106560  
 Efficiency: 59.4%

**Spill:**  
 Lumens: 72702.9  
 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	0.9	1.3	1.8	2.2	2.6	3.1	3.5	3.9	4.3
85°	0.0	0.9	1.8	2.7	3.5	4.4	5.3	6.1	7.0	7.8	8.6
82.5°	0.0	1.3	2.7	4.0	5.3	6.6	7.9	9.2	10.2	10.2	10.2
80°	0.0	1.8	3.5	5.3	7.0	8.8	10.2	10.2	10.2	10.2	10.2
77.5°	0.0	2.2	4.4	6.6	8.8	10.2	10.2	10.2	10.2	10.2	11.2
75°	0.0	2.6	5.3	7.9	10.2	10.2	10.2	10.2	10.5	13.0	15.5
72.5°	0.0	3.1	6.1	9.2	10.2	10.2	10.2	11.0	13.9	16.8	19.7
70°	0.0	3.5	7.0	10.2	10.2	10.2	10.5	13.9	17.3	20.6	23.8
67.5°	0.0	3.9	7.8	10.2	10.2	10.2	13.0	16.8	20.6	24.3	27.9
65°	0.0	4.3	8.6	10.2	10.2	11.2	15.5	19.7	23.8	27.9	31.9
62.5°	0.0	4.7	9.4	10.2	10.2	13.2	17.9	22.5	27.0	31.4	35.8
60°	0.0	5.1	10.2	10.2	10.2	15.2	20.2	25.2	30.1	34.9	39.7
57.5°	0.0	5.5	10.2	10.2	11.7	17.1	22.5	27.8	33.1	38.3	43.4
55°	0.0	5.8	10.2	10.2	13.2	19.0	24.7	30.4	36.1	41.6	47.1
52.5°	0.0	6.2	10.2	10.2	14.6	20.8	26.9	32.9	38.9	44.9	50.7
50°	0.0	6.6	10.2	10.2	16.0	22.5	29.0	35.4	41.7	48.0	57.4
47.5°	0.0	6.9	10.2	10.4	17.4	24.2	31.0	37.7	44.4	51.0	64.1
45°	0.0	7.2	10.2	11.4	18.7	25.8	32.9	40.0	47.0	56.8	70.7
42.5°	0.0	7.5	10.2	12.4	19.9	27.4	34.8	42.2	49.5	62.5	74.3
40°	0.0	7.8	10.2	13.2	21.1	28.8	36.6	44.2	52.6	67.9	77.3
37.5°	0.0	8.1	10.2	14.1	22.2	30.2	38.2	46.2	57.2	72.3	80.1
35°	0.0	8.4	10.2	14.9	23.3	31.6	39.8	48.1	61.5	74.7	84.9
32.5°	0.0	8.6	10.2	15.6	24.3	32.8	41.3	49.8	65.6	77.0	92.6
30°	0.0	8.8	10.2	16.3	25.2	34.0	42.7	51.9	69.4	79.2	99.8
27.5°	0.0	9.0	10.2	17.0	26.1	35.1	44.1	55.0	72.3	81.2	106.6
25°	0.0	9.2	10.2	17.6	26.8	36.1	45.3	57.8	73.9	85.4	112.9
22.5°	0.0	9.4	10.2	18.1	27.6	37.0	46.3	60.4	75.4	90.5	122.4
20°	0.0	9.6	10.2	18.6	28.2	37.8	47.3	62.7	76.7	95.0	130.9
17.5°	0.0	9.7	10.2	19.1	28.8	38.5	48.2	64.8	77.9	99.1	138.4
15°	0.0	9.9	10.2	19.4	29.3	39.1	49.0	66.6	78.9	102.6	145.1
12.5°	0.0	10.0	10.2	19.8	29.7	39.7	49.6	68.1	79.8	105.6	150.7
10°	0.0	10.0	10.2	20.0	30.1	40.1	50.1	69.4	80.5	108.1	155.3
7.5°	0.0	10.1	10.2	20.2	30.3	40.5	50.6	70.3	81.1	110.0	158.9
5°	0.0	10.2	10.2	20.4	30.5	40.7	50.9	71.0	81.5	111.4	161.5
2.5°	0.0	10.2	10.2	20.5	30.7	40.9	51.0	71.5	81.7	112.2	163.1
0°	0.0	10.2	10.2	20.5	30.7	40.9	51.1	71.6	81.8	112.5	163.6
-2.5°	0.0	10.2	10.2	20.5	30.7	40.9	51.0	71.5	81.7	112.2	163.1
-5°	0.0	10.2	10.2	20.4	30.5	40.7	50.9	71.0	81.5	111.4	161.5
-7.5°	0.0	10.1	10.2	20.2	30.3	40.5	50.6	70.3	81.1	110.0	158.9
-10°	0.0	10.0	10.2	20.0	30.1	40.1	50.1	69.4	80.5	108.1	155.3
-12.5°	0.0	10.0	10.2	19.8	29.7	39.7	49.6	68.1	79.8	105.6	150.7
-15°	0.0	9.9	10.2	19.4	29.3	39.1	49.0	66.6	78.9	102.6	145.1
-17.5°	0.0	9.7	10.2	19.1	28.8	38.5	48.2	64.8	77.9	99.1	138.4
-20°	0.0	9.6	10.2	18.6	28.2	37.8	47.3	62.7	76.7	95.0	130.9



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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	9.4	10.2	18.1	27.6	37.0	46.3	60.4	75.4	90.5	122.4
-25°	0.0	9.2	10.2	17.6	26.8	36.1	45.3	57.8	73.9	85.4	112.9
-27.5°	0.0	9.0	10.2	17.0	26.1	35.1	44.1	55.0	72.3	81.2	106.6
-30°	0.0	8.8	10.2	16.3	25.2	34.0	42.7	51.9	69.4	79.2	99.8
-32.5°	0.0	8.6	10.2	15.6	24.3	32.8	41.3	49.8	65.6	77.0	92.6
-35°	0.0	8.4	10.2	14.9	23.3	31.6	39.8	48.1	61.5	74.7	84.9
-37.5°	0.0	8.1	10.2	14.1	22.2	30.2	38.2	46.2	57.2	72.3	80.1
-40°	0.0	7.8	10.2	13.2	21.1	28.8	36.6	44.2	52.6	67.9	77.3
-42.5°	0.0	7.5	10.2	12.4	19.9	27.4	34.8	42.2	49.5	62.5	74.3
-45°	0.0	7.2	10.2	11.4	18.7	25.8	32.9	40.0	47.0	56.8	70.7
-47.5°	0.0	6.9	10.2	10.4	17.4	24.2	31.0	37.7	44.4	51.0	64.1
-50°	0.0	6.6	10.2	10.2	16.0	22.5	29.0	35.4	41.7	48.0	57.4
-52.5°	0.0	6.2	10.2	10.2	14.6	20.8	26.9	32.9	38.9	44.9	50.7
-55°	0.0	5.8	10.2	10.2	13.2	19.0	24.7	30.4	36.1	41.6	47.1
-57.5°	0.0	5.5	10.2	10.2	11.7	17.1	22.5	27.8	33.1	38.3	43.4
-60°	0.0	5.1	10.2	10.2	10.2	15.2	20.2	25.2	30.1	34.9	39.7
-62.5°	0.0	4.7	9.4	10.2	10.2	13.2	17.9	22.5	27.0	31.4	35.8
-65°	0.0	4.3	8.6	10.2	10.2	11.2	15.5	19.7	23.8	27.9	31.9
-67.5°	0.0	3.9	7.8	10.2	10.2	10.2	13.0	16.8	20.6	24.3	27.9
-70°	0.0	3.5	7.0	10.2	10.2	10.2	10.5	13.9	17.3	20.6	23.8
-72.5°	0.0	3.1	6.1	9.2	10.2	10.2	10.2	11.0	13.9	16.8	19.7
-75°	0.0	2.6	5.3	7.9	10.2	10.2	10.2	10.2	10.5	13.0	15.5
-77.5°	0.0	2.2	4.4	6.6	8.8	10.2	10.2	10.2	10.2	10.2	11.2
-80°	0.0	1.8	3.5	5.3	7.0	8.8	10.2	10.2	10.2	10.2	10.2
-82.5°	0.0	1.3	2.7	4.0	5.3	6.6	7.9	9.2	10.2	10.2	10.2
-85°	0.0	0.9	1.8	2.7	3.5	4.4	5.3	6.1	7.0	7.8	8.6
-87.5°	0.0	0.4	0.9	1.3	1.8	2.2	2.6	3.1	3.5	3.9	4.3
-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°	4.7	5.1	5.5	5.8	6.2	6.6	6.9	7.2	7.5	7.8	8.1
85°	9.4	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
82.5°	10.2	10.2	10.2	10.2	10.2	10.2	10.4	11.4	12.4	13.2	14.1
80°	10.2	10.2	11.7	13.2	14.6	16.0	17.4	18.7	19.9	21.1	22.2
77.5°	13.2	15.2	17.1	19.0	20.8	22.5	24.2	25.8	27.4	28.8	30.2
75°	17.9	20.2	22.5	24.7	26.9	29.0	31.0	32.9	34.8	36.6	38.2
72.5°	22.5	25.2	27.8	30.4	32.9	35.4	37.7	40.0	42.2	44.2	46.2
70°	27.0	30.1	33.1	36.1	38.9	41.7	44.4	47.0	49.5	52.6	57.2
67.5°	31.4	34.9	38.3	41.6	44.9	48.0	51.0	56.8	62.5	67.9	72.3
65°	35.8	39.7	43.4	47.1	50.7	57.4	64.1	70.7	74.3	77.3	80.1
62.5°	40.1	44.4	48.5	54.0	62.0	69.7	74.4	78.0	81.4	90.6	100.1
60°	44.4	49.0	55.9	64.8	72.5	76.7	80.7	90.5	101.8	112.9	130.3
57.5°	48.5	55.9	65.7	73.4	78.1	84.3	97.6	110.4	129.6	149.4	166.4
55°	54.0	64.8	73.4	78.6	87.2	101.9	118.6	141.7	163.8	176.7	189.0
52.5°	62.0	72.5	78.1	87.2	103.3	123.4	149.0	169.7	184.1	204.0	239.4
50°	69.7	76.7	84.3	101.9	123.4	151.4	172.7	188.6	220.1	259.7	319.4
47.5°	74.4	80.7	97.6	118.6	149.0	172.7	190.1	228.2	272.0	352.5	433.8
45°	78.0	90.5	110.4	141.7	169.7	188.6	228.2	276.1	369.1	467.7	592.5
42.5°	81.4	101.8	129.6	163.8	184.1	220.1	272.0	369.1	479.9	617.3	740.1
40°	90.6	112.9	149.4	176.7	204.0	259.7	352.5	467.7	617.3	751.1	873.4
37.5°	100.1	130.3	166.4	189.0	239.4	319.4	433.8	592.5	740.1	873.4	928.7
35°	109.1	146.8	177.3	211.5	273.2	392.1	543.3	707.3	851.0	924.1	956.9
32.5°	121.1	162.4	187.5	241.1	334.5	470.6	650.0	806.6	910.4	959.2	944.9
30°	134.4	171.7	201.8	269.0	395.0	564.4	741.0	887.9	950.7	948.5	1249.4
27.5°	146.8	179.9	225.8	314.2	456.8	652.4	823.5	923.4	954.3	1045.2	1705.5
25°	158.3	187.5	248.0	362.6	532.4	726.5	887.8	956.5	945.5	1445.6	2947.0
22.5°	166.7	194.7	268.3	407.0	601.8	792.0	916.1	954.8	1089.9	1859.6	4315.3
20°	172.4	211.5	297.3	450.5	664.9	851.5	941.9	947.8	1405.8	3027.1	6443.8
17.5°	177.5	226.4	330.1	502.1	715.1	889.5	960.3	941.6	1690.1	4080.3	8778.1
15°	181.9	239.4	358.9	547.3	758.1	908.2	955.2	1139.9	2283.4	5292.4	10933.2
12.5°	185.6	250.5	383.3	585.9	794.7	924.2	950.9	1338.5	3022.7	6938.9	15282.5
10°	188.7	259.7	403.5	617.8	825.0	937.4	947.3	1502.9	3635.7	8307.0	18904.4
7.5°	191.2	266.9	419.3	642.7	848.7	947.8	944.5	1632.1	4117.9	9384.7	21762.8
5°	192.9	272.0	430.6	660.6	865.7	955.2	942.4	1725.0	4465.2	10162.0	23827.5
2.5°	194.0	275.1	437.4	671.3	876.0	959.7	941.2	1781.1	4674.8	10631.4	25075.7
0°	194.3	276.1	439.7	674.9	879.4	961.2	940.8	1799.8	4744.9	10788.4	25493.4
-2.5°	194.0	275.1	437.4	671.3	876.0	959.7	941.2	1781.1	4674.8	10631.4	25075.7
-5°	192.9	272.0	430.6	660.6	865.7	955.2	942.4	1725.0	4465.2	10162.0	23827.5
-7.5°	191.2	266.9	419.3	642.7	848.7	947.8	944.5	1632.1	4117.9	9384.7	21762.8
-10°	188.7	259.7	403.5	617.8	825.0	937.4	947.3	1502.9	3635.7	8307.0	18904.4
-12.5°	185.6	250.5	383.3	585.9	794.7	924.2	950.9	1338.5	3022.7	6938.9	15282.5
-15°	181.9	239.4	358.9	547.3	758.1	908.2	955.2	1139.9	2283.4	5292.4	10933.2
-17.5°	177.5	226.4	330.1	502.1	715.1	889.5	960.3	941.6	1690.1	4080.3	8778.1
-20°	172.4	211.5	297.3	450.5	664.9	851.5	941.9	947.8	1405.8	3027.1	6443.8



REPORT NUMBER: P699939 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-3R-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	166.7	194.7	268.3	407.0	601.8	792.0	916.1	954.8	1089.9	1859.6	4315.3
-25°	158.3	187.5	248.0	362.6	532.4	726.5	887.8	956.5	945.5	1445.6	2947.0
-27.5°	146.8	179.9	225.8	314.2	456.8	652.4	823.5	923.4	954.3	1045.2	1705.5
-30°	134.4	171.7	201.8	269.0	395.0	564.4	741.0	887.9	950.7	948.5	1249.4
-32.5°	121.1	162.4	187.5	241.1	334.5	470.6	650.0	806.6	910.4	959.2	944.9
-35°	109.1	146.8	177.3	211.5	273.2	392.1	543.3	707.3	851.0	924.1	956.9
-37.5°	100.1	130.3	166.4	189.0	239.4	319.4	433.8	592.5	740.1	873.4	928.7
-40°	90.6	112.9	149.4	176.7	204.0	259.7	352.5	467.7	617.3	751.1	873.4
-42.5°	81.4	101.8	129.6	163.8	184.1	220.1	272.0	369.1	479.9	617.3	740.1
-45°	78.0	90.5	110.4	141.7	169.7	188.6	228.2	276.1	369.1	467.7	592.5
-47.5°	74.4	80.7	97.6	118.6	149.0	172.7	190.1	228.2	272.0	352.5	433.8
-50°	69.7	76.7	84.3	101.9	123.4	151.4	172.7	188.6	220.1	259.7	319.4
-52.5°	62.0	72.5	78.1	87.2	103.3	123.4	149.0	169.7	184.1	204.0	239.4
-55°	54.0	64.8	73.4	78.6	87.2	101.9	118.6	141.7	163.8	176.7	189.0
-57.5°	48.5	55.9	65.7	73.4	78.1	84.3	97.6	110.4	129.6	149.4	166.4
-60°	44.4	49.0	55.9	64.8	72.5	76.7	80.7	90.5	101.8	112.9	130.3
-62.5°	40.1	44.4	48.5	54.0	62.0	69.7	74.4	78.0	81.4	90.6	100.1
-65°	35.8	39.7	43.4	47.1	50.7	57.4	64.1	70.7	74.3	77.3	80.1
-67.5°	31.4	34.9	38.3	41.6	44.9	48.0	51.0	56.8	62.5	67.9	72.3
-70°	27.0	30.1	33.1	36.1	38.9	41.7	44.4	47.0	49.5	52.6	57.2
-72.5°	22.5	25.2	27.8	30.4	32.9	35.4	37.7	40.0	42.2	44.2	46.2
-75°	17.9	20.2	22.5	24.7	26.9	29.0	31.0	32.9	34.8	36.6	38.2
-77.5°	13.2	15.2	17.1	19.0	20.8	22.5	24.2	25.8	27.4	28.8	30.2
-80°	10.2	10.2	11.7	13.2	14.6	16.0	17.4	18.7	19.9	21.1	22.2
-82.5°	10.2	10.2	10.2	10.2	10.2	10.2	10.4	11.4	12.4	13.2	14.1
-85°	9.4	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
-87.5°	4.7	5.1	5.5	5.8	6.2	6.6	6.9	7.2	7.5	7.8	8.1
-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: P699939 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-3R-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°	8.4	8.6	8.8	9.0	9.2	9.4	9.6	9.7	9.9	10.0	10.0
85°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
82.5°	14.9	15.6	16.3	17.0	17.6	18.1	18.6	19.1	19.4	19.8	20.0
80°	23.3	24.3	25.2	26.1	26.8	27.6	28.2	28.8	29.3	29.7	30.1
77.5°	31.6	32.8	34.0	35.1	36.1	37.0	37.8	38.5	39.1	39.7	40.1
75°	39.8	41.3	42.7	44.1	45.3	46.3	47.3	48.2	49.0	49.6	50.1
72.5°	48.1	49.8	51.9	55.0	57.8	60.4	62.7	64.8	66.6	68.1	69.4
70°	61.5	65.6	69.4	72.3	73.9	75.4	76.7	77.9	78.9	79.8	80.5
67.5°	74.7	77.0	79.2	81.2	85.4	90.5	95.0	99.1	102.6	105.6	108.1
65°	84.9	92.6	99.8	106.6	112.9	122.4	130.9	138.4	145.1	150.7	155.3
62.5°	109.1	121.1	134.4	146.8	158.3	166.7	172.4	177.5	181.9	185.6	188.7
60°	146.8	162.4	171.7	179.9	187.5	194.7	211.5	226.4	239.4	250.5	259.7
57.5°	177.3	187.5	201.8	225.8	248.0	268.3	297.3	330.1	358.9	383.3	403.5
55°	211.5	241.1	269.0	314.2	362.6	407.0	450.5	502.1	547.3	585.9	617.8
52.5°	273.2	334.5	395.0	456.8	532.4	601.8	664.9	715.1	758.1	794.7	825.0
50°	392.1	470.6	564.4	652.4	726.5	792.0	851.5	889.5	908.2	924.2	937.4
47.5°	543.3	650.0	741.0	823.5	887.8	916.1	941.9	960.3	955.2	950.9	947.3
45°	707.3	806.6	887.9	923.4	956.5	954.8	947.8	941.6	1139.9	1338.5	1502.9
42.5°	851.0	910.4	950.7	954.3	945.5	1089.9	1405.8	1690.1	2283.4	3022.7	3635.7
40°	924.1	959.2	948.5	1045.2	1445.6	1859.6	3027.1	4080.3	5292.4	6938.9	8307.0
37.5°	956.9	944.9	1249.4	1705.5	2947.0	4315.3	6443.8	8778.1	10933.2	15282.5	18904.4
35°	943.7	1352.7	2019.7	3686.8	5800.3	8812.7	12738.6	18871.3	24326.1	29565.3	34080.8
32.5°	1352.7	2202.1	4061.4	6983.0	10428.6	17768.4	25037.3	32550.6	39316.7	44225.6	47484.5
30°	2019.7	4061.4	7380.8	11907.1	20847.2	29802.1	38747.9	45373.2	50227.8	53705.7	54572.6
27.5°	3686.8	6983.0	11907.1	21884.0	32257.3	42476.4	48836.8	53759.2	55041.6	56166.4	56763.5
25°	5800.3	10428.6	20847.2	32257.3	43325.7	50602.2	54428.0	55965.3	56915.2	57685.5	58436.7
22.5°	8812.7	17768.4	29802.1	42476.4	50602.2	54654.2	56338.3	57378.5	58422.2	59439.3	60598.8
20°	12738.6	25037.3	38747.9	48836.8	54428.0	56338.3	57535.6	58820.4	60177.1	62110.0	64145.7
17.5°	18871.3	32550.6	45373.2	53759.2	55965.3	57378.5	58820.4	60546.6	62893.4	66775.9	70715.0
15°	24326.1	39316.7	50227.8	55041.6	56915.2	58422.2	60177.1	62893.4	67678.1	74524.8	83799.1
12.5°	29565.3	44225.6	53705.7	56166.4	57685.5	59439.3	62110.0	66775.9	74524.8	86051.6	108135.2
10°	34080.8	47484.5	54572.6	56763.5	58436.7	60598.8	64145.7	70715.0	83799.1	108135.2	140283.8
7.5°	37652.5	50069.5	55262.6	57239.3	59070.4	61817.2	67032.4	77303.0	97389.7	130994.1	185521.6
5°	40237.0	51944.1	55764.4	57586.5	59535.0	62715.4	69177.0	82442.7	110421.6	156713.3	246992.5
2.5°	41801.6	53080.6	56069.2	57797.9	59818.7	63266.5	70500.4	85640.3	118626.8	176710.8	328646.2
0°	42325.4	53461.5	56171.4	57868.9	59914.2	63452.3	70948.0	86726.7	121433.8	184763.4	360354.1
-2.5°	41801.6	53080.6	56069.2	57797.9	59818.7	63266.5	70500.4	85640.3	118626.8	176710.8	328646.2
-5°	40237.0	51944.1	55764.4	57586.5	59535.0	62715.4	69177.0	82442.7	110421.6	156713.3	246992.5
-7.5°	37652.5	50069.5	55262.6	57239.3	59070.4	61817.2	67032.4	77303.0	97389.7	130994.1	185521.6
-10°	34080.8	47484.5	54572.6	56763.5	58436.7	60598.8	64145.7	70715.0	83799.1	108135.2	140283.8
-12.5°	29565.3	44225.6	53705.7	56166.4	57685.5	59439.3	62110.0	66775.9	74524.8	86051.6	108135.2
-15°	24326.1	39316.7	50227.8	55041.6	56915.2	58422.2	60177.1	62893.4	67678.1	74524.8	83799.1
-17.5°	18871.3	32550.6	45373.2	53759.2	55965.3	57378.5	58820.4	60546.6	62893.4	66775.9	70715.0
-20°	12738.6	25037.3	38747.9	48836.8	54428.0	56338.3	57535.6	58820.4	60177.1	62110.0	64145.7



REPORT NUMBER: P699939 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-3R-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	8812.7	17768.4	29802.1	42476.4	50602.2	54654.2	56338.3	57378.5	58422.2	59439.3	60598.8
-25°	5800.3	10428.6	20847.2	32257.3	43325.7	50602.2	54428.0	55965.3	56915.2	57685.5	58436.7
-27.5°	3686.8	6983.0	11907.1	21884.0	32257.3	42476.4	48836.8	53759.2	55041.6	56166.4	56763.5
-30°	2019.7	4061.4	7380.8	11907.1	20847.2	29802.1	38747.9	45373.2	50227.8	53705.7	54572.6
-32.5°	1352.7	2202.1	4061.4	6983.0	10428.6	17768.4	25037.3	32550.6	39316.7	44225.6	47484.5
-35°	943.7	1352.7	2019.7	3686.8	5800.3	8812.7	12738.6	18871.3	24326.1	29565.3	34080.8
-37.5°	956.9	944.9	1249.4	1705.5	2947.0	4315.3	6443.8	8778.1	10933.2	15282.5	18904.4
-40°	924.1	959.2	948.5	1045.2	1445.6	1859.6	3027.1	4080.3	5292.4	6938.9	8307.0
-42.5°	851.0	910.4	950.7	954.3	945.5	1089.9	1405.8	1690.1	2283.4	3022.7	3635.7
-45°	707.3	806.6	887.9	923.4	956.5	954.8	947.8	941.6	1139.9	1338.5	1502.9
-47.5°	543.3	650.0	741.0	823.5	887.8	916.1	941.9	960.3	955.2	950.9	947.3
-50°	392.1	470.6	564.4	652.4	726.5	792.0	851.5	889.5	908.2	924.2	937.4
-52.5°	273.2	334.5	395.0	456.8	532.4	601.8	664.9	715.1	758.1	794.7	825.0
-55°	211.5	241.1	269.0	314.2	362.6	407.0	450.5	502.1	547.3	585.9	617.8
-57.5°	177.3	187.5	201.8	225.8	248.0	268.3	297.3	330.1	358.9	383.3	403.5
-60°	146.8	162.4	171.7	179.9	187.5	194.7	211.5	226.4	239.4	250.5	259.7
-62.5°	109.1	121.1	134.4	146.8	158.3	166.7	172.4	177.5	181.9	185.6	188.7
-65°	84.9	92.6	99.8	106.6	112.9	122.4	130.9	138.4	145.1	150.7	155.3
-67.5°	74.7	77.0	79.2	81.2	85.4	90.5	95.0	99.1	102.6	105.6	108.1
-70°	61.5	65.6	69.4	72.3	73.9	75.4	76.7	77.9	78.9	79.8	80.5
-72.5°	48.1	49.8	51.9	55.0	57.8	60.4	62.7	64.8	66.6	68.1	69.4
-75°	39.8	41.3	42.7	44.1	45.3	46.3	47.3	48.2	49.0	49.6	50.1
-77.5°	31.6	32.8	34.0	35.1	36.1	37.0	37.8	38.5	39.1	39.7	40.1
-80°	23.3	24.3	25.2	26.1	26.8	27.6	28.2	28.8	29.3	29.7	30.1
-82.5°	14.9	15.6	16.3	17.0	17.6	18.1	18.6	19.1	19.4	19.8	20.0
-85°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
-87.5°	8.4	8.6	8.8	9.0	9.2	9.4	9.6	9.7	9.9	10.0	10.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699939 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-3R-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°	10.1	10.2	10.2	10.2	10.2	10.2	10.1	10.0	10.0	9.9	9.7
85°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
82.5°	20.2	20.4	20.5	20.5	20.5	20.4	20.2	20.0	19.8	19.4	19.1
80°	30.3	30.5	30.7	30.7	30.7	30.5	30.3	30.1	29.7	29.3	28.8
77.5°	40.5	40.7	40.9	40.9	40.9	40.7	40.5	40.1	39.7	39.1	38.5
75°	50.6	50.9	51.0	51.1	51.0	50.9	50.6	50.1	49.6	49.0	48.2
72.5°	70.3	71.0	71.5	71.6	71.5	71.0	70.3	69.4	68.1	66.6	64.8
70°	81.1	81.5	81.7	81.8	81.7	81.5	81.1	80.5	79.8	78.9	77.9
67.5°	110.0	111.4	112.2	112.5	112.2	111.4	110.0	108.1	105.6	102.6	99.1
65°	158.9	161.5	163.1	163.6	163.1	161.5	158.9	155.3	150.7	145.1	138.4
62.5°	191.2	192.9	194.0	194.3	194.0	192.9	191.2	188.7	185.6	181.9	177.5
60°	266.9	272.0	275.1	276.1	275.1	272.0	266.9	259.7	250.5	239.4	226.4
57.5°	419.3	430.6	437.4	439.7	437.4	430.6	419.3	403.5	383.3	358.9	330.1
55°	642.7	660.6	671.3	674.9	671.3	660.6	642.7	617.8	585.9	547.3	502.1
52.5°	848.7	865.7	876.0	879.4	876.0	865.7	848.7	825.0	794.7	758.1	715.1
50°	947.8	955.2	959.7	961.2	959.7	955.2	947.8	937.4	924.2	908.2	889.5
47.5°	944.5	942.4	941.2	940.8	941.2	942.4	944.5	947.3	950.9	955.2	960.3
45°	1632.1	1725.0	1781.1	1799.8	1781.1	1725.0	1632.1	1502.9	1338.5	1139.9	941.6
42.5°	4117.9	4465.2	4674.8	4744.9	4674.8	4465.2	4117.9	3635.7	3022.7	2283.4	1690.1
40°	9384.7	10162.0	10631.4	10788.4	10631.4	10162.0	9384.7	8307.0	6938.9	5292.4	4080.3
37.5°	21762.8	23827.5	25075.7	25493.4	25075.7	23827.5	21762.8	18904.4	15282.5	10933.2	8778.1
35°	37652.5	40237.0	41801.6	42325.4	41801.6	40237.0	37652.5	34080.8	29565.3	24326.1	18871.3
32.5°	50069.5	51944.1	53080.6	53461.5	53080.6	51944.1	50069.5	47484.5	44225.6	39316.7	32550.6
30°	55262.6	55764.4	56069.2	56171.4	56069.2	55764.4	55262.6	54572.6	53705.7	50227.8	45373.2
27.5°	57239.3	57586.5	57797.9	57868.9	57797.9	57586.5	57239.3	56763.5	56166.4	55041.6	53759.2
25°	59070.4	59535.0	59818.7	59914.2	59818.7	59535.0	59070.4	58436.7	57685.5	56915.2	55965.3
22.5°	61817.2	62715.4	63266.5	63452.3	63266.5	62715.4	61817.2	60598.8	59439.3	58422.2	57378.5
20°	67032.4	69177.0	70500.4	70948.0	70500.4	69177.0	67032.4	64145.7	62110.0	60177.1	58820.4
17.5°	77303.0	82442.7	85640.3	86726.7	85640.3	82442.7	77303.0	70715.0	66775.9	62893.4	60546.6
15°	97389.7	110421.6	118626.8	121433.8	118626.8	110421.6	97389.7	83799.1	74524.8	67678.1	62893.4
12.5°	130994.1	156713.3	176710.8	184763.4	176710.8	156713.3	130994.1	108135.2	86051.6	74524.8	66775.9
10°	185521.6	246992.5	328646.2	360354.1	328646.2	246992.5	185521.6	140283.8	108135.2	83799.1	70715.0
7.5°	298805.9	534088.4	773317.6	852424.3	773317.6	534088.4	298805.9	185521.6	130994.1	97389.7	77303.0
5°	534088.4	937411.9	#####	#####	#####	937411.9	534088.4	246992.5	156713.3	110421.6	82442.7
2.5°	773317.6	#####	#####	#####	#####	#####	773317.6	328646.2	176710.8	118626.8	85640.3
0°	852424.3	#####	#####	#####	#####	#####	852424.3	360354.1	184763.4	121433.8	86726.7
-2.5°	773317.6	#####	#####	#####	#####	#####	773317.6	328646.2	176710.8	118626.8	85640.3
-5°	534088.4	937411.9	#####	#####	#####	937411.9	534088.4	246992.5	156713.3	110421.6	82442.7
-7.5°	298805.9	534088.4	773317.6	852424.3	773317.6	534088.4	298805.9	185521.6	130994.1	97389.7	77303.0
-10°	185521.6	246992.5	328646.2	360354.1	328646.2	246992.5	185521.6	140283.8	108135.2	83799.1	70715.0
-12.5°	130994.1	156713.3	176710.8	184763.4	176710.8	156713.3	130994.1	108135.2	86051.6	74524.8	66775.9
-15°	97389.7	110421.6	118626.8	121433.8	118626.8	110421.6	97389.7	83799.1	74524.8	67678.1	62893.4
-17.5°	77303.0	82442.7	85640.3	86726.7	85640.3	82442.7	77303.0	70715.0	66775.9	62893.4	60546.6
-20°	67032.4	69177.0	70500.4	70948.0	70500.4	69177.0	67032.4	64145.7	62110.0	60177.1	58820.4



REPORT NUMBER: P699939 (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°	61817.2	62715.4	63266.5	63452.3	63266.5	62715.4	61817.2	60598.8	59439.3	58422.2	57378.5
-25°	59070.4	59535.0	59818.7	59914.2	59818.7	59535.0	59070.4	58436.7	57685.5	56915.2	55965.3
-27.5°	57239.3	57586.5	57797.9	57868.9	57797.9	57586.5	57239.3	56763.5	56166.4	55041.6	53759.2
-30°	55262.6	55764.4	56069.2	56171.4	56069.2	55764.4	55262.6	54572.6	53705.7	50227.8	45373.2
-32.5°	50069.5	51944.1	53080.6	53461.5	53080.6	51944.1	50069.5	47484.5	44225.6	39316.7	32550.6
-35°	37652.5	40237.0	41801.6	42325.4	41801.6	40237.0	37652.5	34080.8	29565.3	24326.1	18871.3
-37.5°	21762.8	23827.5	25075.7	25493.4	25075.7	23827.5	21762.8	18904.4	15282.5	10933.2	8778.1
-40°	9384.7	10162.0	10631.4	10788.4	10631.4	10162.0	9384.7	8307.0	6938.9	5292.4	4080.3
-42.5°	4117.9	4465.2	4674.8	4744.9	4674.8	4465.2	4117.9	3635.7	3022.7	2283.4	1690.1
-45°	1632.1	1725.0	1781.1	1799.8	1781.1	1725.0	1632.1	1502.9	1338.5	1139.9	941.6
-47.5°	944.5	942.4	941.2	940.8	941.2	942.4	944.5	947.3	950.9	955.2	960.3
-50°	947.8	955.2	959.7	961.2	959.7	955.2	947.8	937.4	924.2	908.2	889.5
-52.5°	848.7	865.7	876.0	879.4	876.0	865.7	848.7	825.0	794.7	758.1	715.1
-55°	642.7	660.6	671.3	674.9	671.3	660.6	642.7	617.8	585.9	547.3	502.1
-57.5°	419.3	430.6	437.4	439.7	437.4	430.6	419.3	403.5	383.3	358.9	330.1
-60°	266.9	272.0	275.1	276.1	275.1	272.0	266.9	259.7	250.5	239.4	226.4
-62.5°	191.2	192.9	194.0	194.3	194.0	192.9	191.2	188.7	185.6	181.9	177.5
-65°	158.9	161.5	163.1	163.6	163.1	161.5	158.9	155.3	150.7	145.1	138.4
-67.5°	110.0	111.4	112.2	112.5	112.2	111.4	110.0	108.1	105.6	102.6	99.1
-70°	81.1	81.5	81.7	81.8	81.7	81.5	81.1	80.5	79.8	78.9	77.9
-72.5°	70.3	71.0	71.5	71.6	71.5	71.0	70.3	69.4	68.1	66.6	64.8
-75°	50.6	50.9	51.0	51.1	51.0	50.9	50.6	50.1	49.6	49.0	48.2
-77.5°	40.5	40.7	40.9	40.9	40.9	40.7	40.5	40.1	39.7	39.1	38.5
-80°	30.3	30.5	30.7	30.7	30.7	30.5	30.3	30.1	29.7	29.3	28.8
-82.5°	20.2	20.4	20.5	20.5	20.5	20.4	20.2	20.0	19.8	19.4	19.1
-85°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
-87.5°	10.1	10.2	10.2	10.2	10.2	10.2	10.1	10.0	10.0	9.9	9.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	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°	9.6	9.4	9.2	9.0	8.8	8.6	8.4	8.1	7.8	7.5	7.2
85°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
82.5°	18.6	18.1	17.6	17.0	16.3	15.6	14.9	14.1	13.2	12.4	11.4
80°	28.2	27.6	26.8	26.1	25.2	24.3	23.3	22.2	21.1	19.9	18.7
77.5°	37.8	37.0	36.1	35.1	34.0	32.8	31.6	30.2	28.8	27.4	25.8
75°	47.3	46.3	45.3	44.1	42.7	41.3	39.8	38.2	36.6	34.8	32.9
72.5°	62.7	60.4	57.8	55.0	51.9	49.8	48.1	46.2	44.2	42.2	40.0
70°	76.7	75.4	73.9	72.3	69.4	65.6	61.5	57.2	52.6	49.5	47.0
67.5°	95.0	90.5	85.4	81.2	79.2	77.0	74.7	72.3	67.9	62.5	56.8
65°	130.9	122.4	112.9	106.6	99.8	92.6	84.9	80.1	77.3	74.3	70.7
62.5°	172.4	166.7	158.3	146.8	134.4	121.1	109.1	100.1	90.6	81.4	78.0
60°	211.5	194.7	187.5	179.9	171.7	162.4	146.8	130.3	112.9	101.8	90.5
57.5°	297.3	268.3	248.0	225.8	201.8	187.5	177.3	166.4	149.4	129.6	110.4
55°	450.5	407.0	362.6	314.2	269.0	241.1	211.5	189.0	176.7	163.8	141.7
52.5°	664.9	601.8	532.4	456.8	395.0	334.5	273.2	239.4	204.0	184.1	169.7
50°	851.5	792.0	726.5	652.4	564.4	470.6	392.1	319.4	259.7	220.1	188.6
47.5°	941.9	916.1	887.8	823.5	741.0	650.0	543.3	433.8	352.5	272.0	228.2
45°	947.8	954.8	956.5	923.4	887.9	806.6	707.3	592.5	467.7	369.1	276.1
42.5°	1405.8	1089.9	945.5	954.3	950.7	910.4	851.0	740.1	617.3	479.9	369.1
40°	3027.1	1859.6	1445.6	1045.2	948.5	959.2	924.1	873.4	751.1	617.3	467.7
37.5°	6443.8	4315.3	2947.0	1705.5	1249.4	944.9	956.9	928.7	873.4	740.1	592.5
35°	12738.6	8812.7	5800.3	3686.8	2019.7	1352.7	943.7	956.9	924.1	851.0	707.3
32.5°	25037.3	17768.4	10428.6	6983.0	4061.4	2202.1	1352.7	944.9	959.2	910.4	806.6
30°	38747.9	29802.1	20847.2	11907.1	7380.8	4061.4	2019.7	1249.4	948.5	950.7	887.9
27.5°	48836.8	42476.4	32257.3	21884.0	11907.1	6983.0	3686.8	1705.5	1045.2	954.3	923.4
25°	54428.0	50602.2	43325.7	32257.3	20847.2	10428.6	5800.3	2947.0	1445.6	945.5	956.5
22.5°	56338.3	54654.2	50602.2	42476.4	29802.1	17768.4	8812.7	4315.3	1859.6	1089.9	954.8
20°	57535.6	56338.3	54428.0	48836.8	38747.9	25037.3	12738.6	6443.8	3027.1	1405.8	947.8
17.5°	58820.4	57378.5	55965.3	53759.2	45373.2	32550.6	18871.3	8778.1	4080.3	1690.1	941.6
15°	60177.1	58422.2	56915.2	55041.6	50227.8	39316.7	24326.1	10933.2	5292.4	2283.4	1139.9
12.5°	62110.0	59439.3	57685.5	56166.4	53705.7	44225.6	29565.3	15282.5	6938.9	3022.7	1338.5
10°	64145.7	60598.8	58436.7	56763.5	54572.6	47484.5	34080.8	18904.4	8307.0	3635.7	1502.9
7.5°	67032.4	61817.2	59070.4	57239.3	55262.6	50069.5	37652.5	21762.8	9384.7	4117.9	1632.1
5°	69177.0	62715.4	59535.0	57586.5	55764.4	51944.1	40237.0	23827.5	10162.0	4465.2	1725.0
2.5°	70500.4	63266.5	59818.7	57797.9	56069.2	53080.6	41801.6	25075.7	10631.4	4674.8	1781.1
0°	70948.0	63452.3	59914.2	57868.9	56171.4	53461.5	42325.4	25493.4	10788.4	4744.9	1799.8
-2.5°	70500.4	63266.5	59818.7	57797.9	56069.2	53080.6	41801.6	25075.7	10631.4	4674.8	1781.1
-5°	69177.0	62715.4	59535.0	57586.5	55764.4	51944.1	40237.0	23827.5	10162.0	4465.2	1725.0
-7.5°	67032.4	61817.2	59070.4	57239.3	55262.6	50069.5	37652.5	21762.8	9384.7	4117.9	1632.1
-10°	64145.7	60598.8	58436.7	56763.5	54572.6	47484.5	34080.8	18904.4	8307.0	3635.7	1502.9
-12.5°	62110.0	59439.3	57685.5	56166.4	53705.7	44225.6	29565.3	15282.5	6938.9	3022.7	1338.5
-15°	60177.1	58422.2	56915.2	55041.6	50227.8	39316.7	24326.1	10933.2	5292.4	2283.4	1139.9
-17.5°	58820.4	57378.5	55965.3	53759.2	45373.2	32550.6	18871.3	8778.1	4080.3	1690.1	941.6
-20°	57535.6	56338.3	54428.0	48836.8	38747.9	25037.3	12738.6	6443.8	3027.1	1405.8	947.8





REPORT NUMBER: P699939 (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°	56338.3	54654.2	50602.2	42476.4	29802.1	17768.4	8812.7	4315.3	1859.6	1089.9	954.8
-25°	54428.0	50602.2	43325.7	32257.3	20847.2	10428.6	5800.3	2947.0	1445.6	945.5	956.5
-27.5°	48836.8	42476.4	32257.3	21884.0	11907.1	6983.0	3686.8	1705.5	1045.2	954.3	923.4
-30°	38747.9	29802.1	20847.2	11907.1	7380.8	4061.4	2019.7	1249.4	948.5	950.7	887.9
-32.5°	25037.3	17768.4	10428.6	6983.0	4061.4	2202.1	1352.7	944.9	959.2	910.4	806.6
-35°	12738.6	8812.7	5800.3	3686.8	2019.7	1352.7	943.7	956.9	924.1	851.0	707.3
-37.5°	6443.8	4315.3	2947.0	1705.5	1249.4	944.9	956.9	928.7	873.4	740.1	592.5
-40°	3027.1	1859.6	1445.6	1045.2	948.5	959.2	924.1	873.4	751.1	617.3	467.7
-42.5°	1405.8	1089.9	945.5	954.3	950.7	910.4	851.0	740.1	617.3	479.9	369.1
-45°	947.8	954.8	956.5	923.4	887.9	806.6	707.3	592.5	467.7	369.1	276.1
-47.5°	941.9	916.1	887.8	823.5	741.0	650.0	543.3	433.8	352.5	272.0	228.2
-50°	851.5	792.0	726.5	652.4	564.4	470.6	392.1	319.4	259.7	220.1	188.6
-52.5°	664.9	601.8	532.4	456.8	395.0	334.5	273.2	239.4	204.0	184.1	169.7
-55°	450.5	407.0	362.6	314.2	269.0	241.1	211.5	189.0	176.7	163.8	141.7
-57.5°	297.3	268.3	248.0	225.8	201.8	187.5	177.3	166.4	149.4	129.6	110.4
-60°	211.5	194.7	187.5	179.9	171.7	162.4	146.8	130.3	112.9	101.8	90.5
-62.5°	172.4	166.7	158.3	146.8	134.4	121.1	109.1	100.1	90.6	81.4	78.0
-65°	130.9	122.4	112.9	106.6	99.8	92.6	84.9	80.1	77.3	74.3	70.7
-67.5°	95.0	90.5	85.4	81.2	79.2	77.0	74.7	72.3	67.9	62.5	56.8
-70°	76.7	75.4	73.9	72.3	69.4	65.6	61.5	57.2	52.6	49.5	47.0
-72.5°	62.7	60.4	57.8	55.0	51.9	49.8	48.1	46.2	44.2	42.2	40.0
-75°	47.3	46.3	45.3	44.1	42.7	41.3	39.8	38.2	36.6	34.8	32.9
-77.5°	37.8	37.0	36.1	35.1	34.0	32.8	31.6	30.2	28.8	27.4	25.8
-80°	28.2	27.6	26.8	26.1	25.2	24.3	23.3	22.2	21.1	19.9	18.7
-82.5°	18.6	18.1	17.6	17.0	16.3	15.6	14.9	14.1	13.2	12.4	11.4
-85°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
-87.5°	9.6	9.4	9.2	9.0	8.8	8.6	8.4	8.1	7.8	7.5	7.2
-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: P699939 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-3R-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°	6.9	6.6	6.2	5.8	5.5	5.1	4.7	4.3	3.9	3.5	3.1
85°	10.2	10.2	10.2	10.2	10.2	10.2	9.4	8.6	7.8	7.0	6.1
82.5°	10.4	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	9.2
80°	17.4	16.0	14.6	13.2	11.7	10.2	10.2	10.2	10.2	10.2	10.2
77.5°	24.2	22.5	20.8	19.0	17.1	15.2	13.2	11.2	10.2	10.2	10.2
75°	31.0	29.0	26.9	24.7	22.5	20.2	17.9	15.5	13.0	10.5	10.2
72.5°	37.7	35.4	32.9	30.4	27.8	25.2	22.5	19.7	16.8	13.9	11.0
70°	44.4	41.7	38.9	36.1	33.1	30.1	27.0	23.8	20.6	17.3	13.9
67.5°	51.0	48.0	44.9	41.6	38.3	34.9	31.4	27.9	24.3	20.6	16.8
65°	64.1	57.4	50.7	47.1	43.4	39.7	35.8	31.9	27.9	23.8	19.7
62.5°	74.4	69.7	62.0	54.0	48.5	44.4	40.1	35.8	31.4	27.0	22.5
60°	80.7	76.7	72.5	64.8	55.9	49.0	44.4	39.7	34.9	30.1	25.2
57.5°	97.6	84.3	78.1	73.4	65.7	55.9	48.5	43.4	38.3	33.1	27.8
55°	118.6	101.9	87.2	78.6	73.4	64.8	54.0	47.1	41.6	36.1	30.4
52.5°	149.0	123.4	103.3	87.2	78.1	72.5	62.0	50.7	44.9	38.9	32.9
50°	172.7	151.4	123.4	101.9	84.3	76.7	69.7	57.4	48.0	41.7	35.4
47.5°	190.1	172.7	149.0	118.6	97.6	80.7	74.4	64.1	51.0	44.4	37.7
45°	228.2	188.6	169.7	141.7	110.4	90.5	78.0	70.7	56.8	47.0	40.0
42.5°	272.0	220.1	184.1	163.8	129.6	101.8	81.4	74.3	62.5	49.5	42.2
40°	352.5	259.7	204.0	176.7	149.4	112.9	90.6	77.3	67.9	52.6	44.2
37.5°	433.8	319.4	239.4	189.0	166.4	130.3	100.1	80.1	72.3	57.2	46.2
35°	543.3	392.1	273.2	211.5	177.3	146.8	109.1	84.9	74.7	61.5	48.1
32.5°	650.0	470.6	334.5	241.1	187.5	162.4	121.1	92.6	77.0	65.6	49.8
30°	741.0	564.4	395.0	269.0	201.8	171.7	134.4	99.8	79.2	69.4	51.9
27.5°	823.5	652.4	456.8	314.2	225.8	179.9	146.8	106.6	81.2	72.3	55.0
25°	887.8	726.5	532.4	362.6	248.0	187.5	158.3	112.9	85.4	73.9	57.8
22.5°	916.1	792.0	601.8	407.0	268.3	194.7	166.7	122.4	90.5	75.4	60.4
20°	941.9	851.5	664.9	450.5	297.3	211.5	172.4	130.9	95.0	76.7	62.7
17.5°	960.3	889.5	715.1	502.1	330.1	226.4	177.5	138.4	99.1	77.9	64.8
15°	955.2	908.2	758.1	547.3	358.9	239.4	181.9	145.1	102.6	78.9	66.6
12.5°	950.9	924.2	794.7	585.9	383.3	250.5	185.6	150.7	105.6	79.8	68.1
10°	947.3	937.4	825.0	617.8	403.5	259.7	188.7	155.3	108.1	80.5	69.4
7.5°	944.5	947.8	848.7	642.7	419.3	266.9	191.2	158.9	110.0	81.1	70.3
5°	942.4	955.2	865.7	660.6	430.6	272.0	192.9	161.5	111.4	81.5	71.0
2.5°	941.2	959.7	876.0	671.3	437.4	275.1	194.0	163.1	112.2	81.7	71.5
0°	940.8	961.2	879.4	674.9	439.7	276.1	194.3	163.6	112.5	81.8	71.6
-2.5°	941.2	959.7	876.0	671.3	437.4	275.1	194.0	163.1	112.2	81.7	71.5
-5°	942.4	955.2	865.7	660.6	430.6	272.0	192.9	161.5	111.4	81.5	71.0
-7.5°	944.5	947.8	848.7	642.7	419.3	266.9	191.2	158.9	110.0	81.1	70.3
-10°	947.3	937.4	825.0	617.8	403.5	259.7	188.7	155.3	108.1	80.5	69.4
-12.5°	950.9	924.2	794.7	585.9	383.3	250.5	185.6	150.7	105.6	79.8	68.1
-15°	955.2	908.2	758.1	547.3	358.9	239.4	181.9	145.1	102.6	78.9	66.6
-17.5°	960.3	889.5	715.1	502.1	330.1	226.4	177.5	138.4	99.1	77.9	64.8
-20°	941.9	851.5	664.9	450.5	297.3	211.5	172.4	130.9	95.0	76.7	62.7



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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°	916.1	792.0	601.8	407.0	268.3	194.7	166.7	122.4	90.5	75.4	60.4
-25°	887.8	726.5	532.4	362.6	248.0	187.5	158.3	112.9	85.4	73.9	57.8
-27.5°	823.5	652.4	456.8	314.2	225.8	179.9	146.8	106.6	81.2	72.3	55.0
-30°	741.0	564.4	395.0	269.0	201.8	171.7	134.4	99.8	79.2	69.4	51.9
-32.5°	650.0	470.6	334.5	241.1	187.5	162.4	121.1	92.6	77.0	65.6	49.8
-35°	543.3	392.1	273.2	211.5	177.3	146.8	109.1	84.9	74.7	61.5	48.1
-37.5°	433.8	319.4	239.4	189.0	166.4	130.3	100.1	80.1	72.3	57.2	46.2
-40°	352.5	259.7	204.0	176.7	149.4	112.9	90.6	77.3	67.9	52.6	44.2
-42.5°	272.0	220.1	184.1	163.8	129.6	101.8	81.4	74.3	62.5	49.5	42.2
-45°	228.2	188.6	169.7	141.7	110.4	90.5	78.0	70.7	56.8	47.0	40.0
-47.5°	190.1	172.7	149.0	118.6	97.6	80.7	74.4	64.1	51.0	44.4	37.7
-50°	172.7	151.4	123.4	101.9	84.3	76.7	69.7	57.4	48.0	41.7	35.4
-52.5°	149.0	123.4	103.3	87.2	78.1	72.5	62.0	50.7	44.9	38.9	32.9
-55°	118.6	101.9	87.2	78.6	73.4	64.8	54.0	47.1	41.6	36.1	30.4
-57.5°	97.6	84.3	78.1	73.4	65.7	55.9	48.5	43.4	38.3	33.1	27.8
-60°	80.7	76.7	72.5	64.8	55.9	49.0	44.4	39.7	34.9	30.1	25.2
-62.5°	74.4	69.7	62.0	54.0	48.5	44.4	40.1	35.8	31.4	27.0	22.5
-65°	64.1	57.4	50.7	47.1	43.4	39.7	35.8	31.9	27.9	23.8	19.7
-67.5°	51.0	48.0	44.9	41.6	38.3	34.9	31.4	27.9	24.3	20.6	16.8
-70°	44.4	41.7	38.9	36.1	33.1	30.1	27.0	23.8	20.6	17.3	13.9
-72.5°	37.7	35.4	32.9	30.4	27.8	25.2	22.5	19.7	16.8	13.9	11.0
-75°	31.0	29.0	26.9	24.7	22.5	20.2	17.9	15.5	13.0	10.5	10.2
-77.5°	24.2	22.5	20.8	19.0	17.1	15.2	13.2	11.2	10.2	10.2	10.2
-80°	17.4	16.0	14.6	13.2	11.7	10.2	10.2	10.2	10.2	10.2	10.2
-82.5°	10.4	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	9.2
-85°	10.2	10.2	10.2	10.2	10.2	10.2	9.4	8.6	7.8	7.0	6.1
-87.5°	6.9	6.6	6.2	5.8	5.5	5.1	4.7	4.3	3.9	3.5	3.1
-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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**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°	2.6	2.2	1.8	1.3	0.9	0.4	0.0
85°	5.3	4.4	3.5	2.7	1.8	0.9	0.0
82.5°	7.9	6.6	5.3	4.0	2.7	1.3	0.0
80°	10.2	8.8	7.0	5.3	3.5	1.8	0.0
77.5°	10.2	10.2	8.8	6.6	4.4	2.2	0.0
75°	10.2	10.2	10.2	7.9	5.3	2.6	0.0
72.5°	10.2	10.2	10.2	9.2	6.1	3.1	0.0
70°	10.5	10.2	10.2	10.2	7.0	3.5	0.0
67.5°	13.0	10.2	10.2	10.2	7.8	3.9	0.0
65°	15.5	11.2	10.2	10.2	8.6	4.3	0.0
62.5°	17.9	13.2	10.2	10.2	9.4	4.7	0.0
60°	20.2	15.2	10.2	10.2	10.2	5.1	0.0
57.5°	22.5	17.1	11.7	10.2	10.2	5.5	0.0
55°	24.7	19.0	13.2	10.2	10.2	5.8	0.0
52.5°	26.9	20.8	14.6	10.2	10.2	6.2	0.0
50°	29.0	22.5	16.0	10.2	10.2	6.6	0.0
47.5°	31.0	24.2	17.4	10.4	10.2	6.9	0.0
45°	32.9	25.8	18.7	11.4	10.2	7.2	0.0
42.5°	34.8	27.4	19.9	12.4	10.2	7.5	0.0
40°	36.6	28.8	21.1	13.2	10.2	7.8	0.0
37.5°	38.2	30.2	22.2	14.1	10.2	8.1	0.0
35°	39.8	31.6	23.3	14.9	10.2	8.4	0.0
32.5°	41.3	32.8	24.3	15.6	10.2	8.6	0.0
30°	42.7	34.0	25.2	16.3	10.2	8.8	0.0
27.5°	44.1	35.1	26.1	17.0	10.2	9.0	0.0
25°	45.3	36.1	26.8	17.6	10.2	9.2	0.0
22.5°	46.3	37.0	27.6	18.1	10.2	9.4	0.0
20°	47.3	37.8	28.2	18.6	10.2	9.6	0.0
17.5°	48.2	38.5	28.8	19.1	10.2	9.7	0.0
15°	49.0	39.1	29.3	19.4	10.2	9.9	0.0
12.5°	49.6	39.7	29.7	19.8	10.2	10.0	0.0
10°	50.1	40.1	30.1	20.0	10.2	10.0	0.0
7.5°	50.6	40.5	30.3	20.2	10.2	10.1	0.0
5°	50.9	40.7	30.5	20.4	10.2	10.2	0.0
2.5°	51.0	40.9	30.7	20.5	10.2	10.2	0.0
0°	51.1	40.9	30.7	20.5	10.2	10.2	0.0
-2.5°	51.0	40.9	30.7	20.5	10.2	10.2	0.0
-5°	50.9	40.7	30.5	20.4	10.2	10.2	0.0
-7.5°	50.6	40.5	30.3	20.2	10.2	10.1	0.0
-10°	50.1	40.1	30.1	20.0	10.2	10.0	0.0
-12.5°	49.6	39.7	29.7	19.8	10.2	10.0	0.0
-15°	49.0	39.1	29.3	19.4	10.2	9.9	0.0
-17.5°	48.2	38.5	28.8	19.1	10.2	9.7	0.0
-20°	47.3	37.8	28.2	18.6	10.2	9.6	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	46.3	37.0	27.6	18.1	10.2	9.4	0.0
-25°	45.3	36.1	26.8	17.6	10.2	9.2	0.0
-27.5°	44.1	35.1	26.1	17.0	10.2	9.0	0.0
-30°	42.7	34.0	25.2	16.3	10.2	8.8	0.0
-32.5°	41.3	32.8	24.3	15.6	10.2	8.6	0.0
-35°	39.8	31.6	23.3	14.9	10.2	8.4	0.0
-37.5°	38.2	30.2	22.2	14.1	10.2	8.1	0.0
-40°	36.6	28.8	21.1	13.2	10.2	7.8	0.0
-42.5°	34.8	27.4	19.9	12.4	10.2	7.5	0.0
-45°	32.9	25.8	18.7	11.4	10.2	7.2	0.0
-47.5°	31.0	24.2	17.4	10.4	10.2	6.9	0.0
-50°	29.0	22.5	16.0	10.2	10.2	6.6	0.0
-52.5°	26.9	20.8	14.6	10.2	10.2	6.2	0.0
-55°	24.7	19.0	13.2	10.2	10.2	5.8	0.0
-57.5°	22.5	17.1	11.7	10.2	10.2	5.5	0.0
-60°	20.2	15.2	10.2	10.2	10.2	5.1	0.0
-62.5°	17.9	13.2	10.2	10.2	9.4	4.7	0.0
-65°	15.5	11.2	10.2	10.2	8.6	4.3	0.0
-67.5°	13.0	10.2	10.2	10.2	7.8	3.9	0.0
-70°	10.5	10.2	10.2	10.2	7.0	3.5	0.0
-72.5°	10.2	10.2	10.2	9.2	6.1	3.1	0.0
-75°	10.2	10.2	10.2	7.9	5.3	2.6	0.0
-77.5°	10.2	10.2	8.8	6.6	4.4	2.2	0.0
-80°	10.2	8.8	7.0	5.3	3.5	1.8	0.0
-82.5°	7.9	6.6	5.3	4.0	2.7	1.3	0.0
-85°	5.3	4.4	3.5	2.7	1.8	0.9	0.0
-87.5°	2.6	2.2	1.8	1.3	0.9	0.4	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)