

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: P699934 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200R-40-70-1R-S**

Issue Date: 8/10/2023

**Test Information**

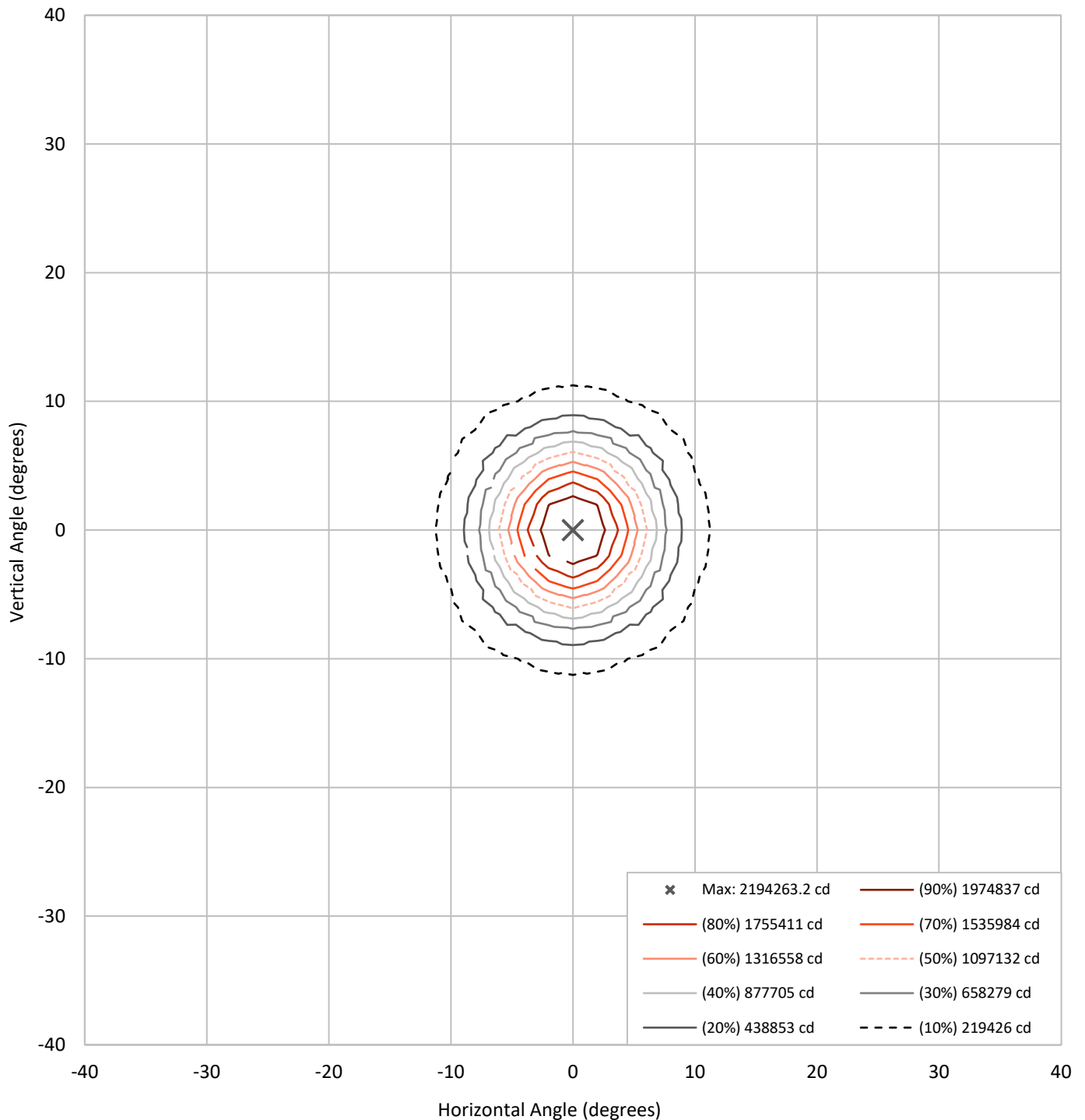
Test Method: LM-79-08  
Report Number: P699934 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-LS-16-1200R-40-70-1R-S  
Description: EPHEBUS LUMASPORT 16 LUMINAIRE  
(16) 4000K, 70 CRI LEDS AND 1R BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	176672.9 lumens	Max Intensity:	2194263.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	137.1 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	12.1°H x 12.1°V	Field Angle (10%):	22.5°H x 22.5°V
Beam Lumens:	50489.8 lumens	Field Lumens:	95160.9 lumens
Beam Efficiency:	28.6%	Field Efficiency:	53.9%
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





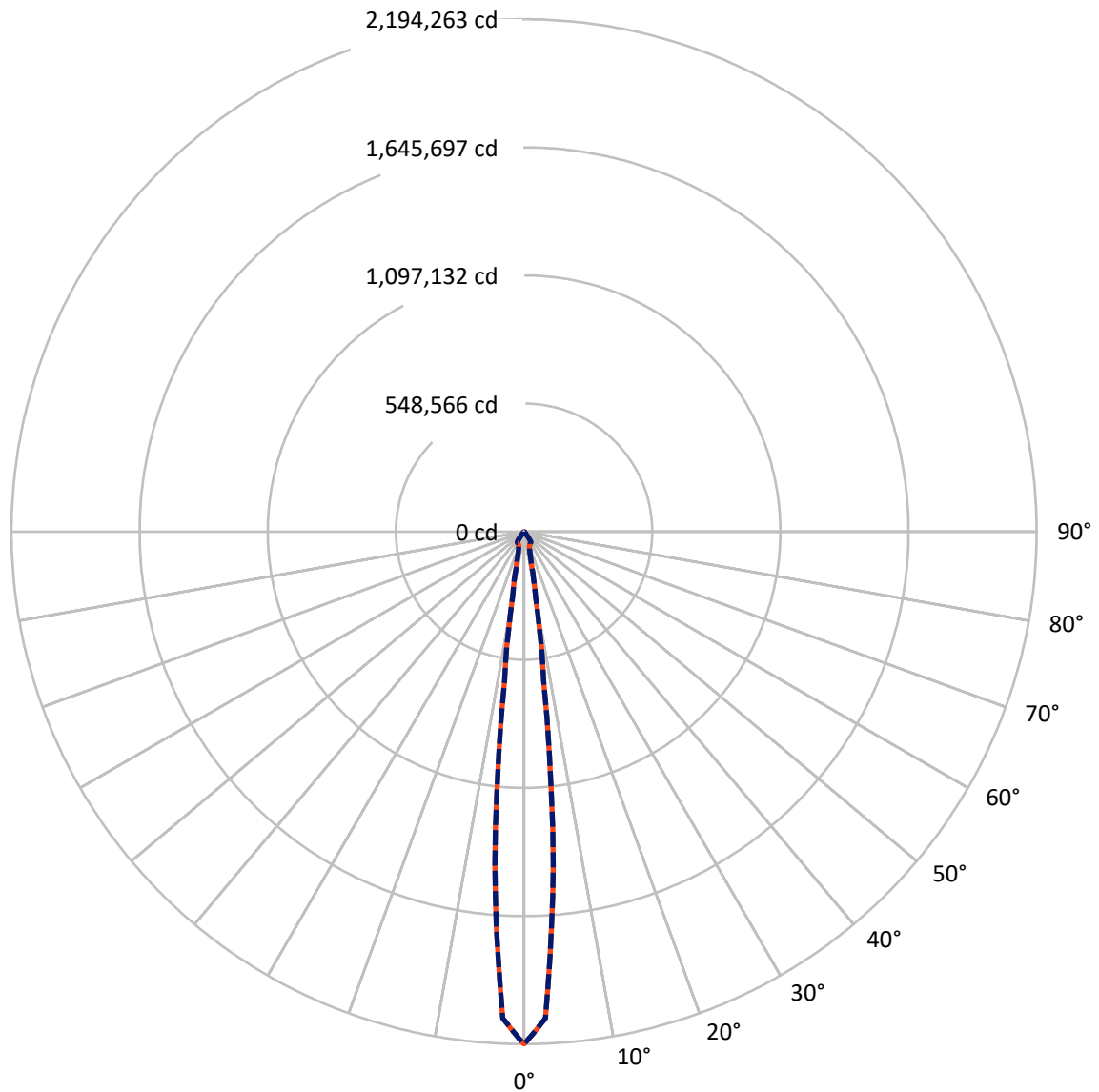
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### Lumen Table

90	0.2	1.3		2.9		4.5		5.2		4.5		2.9		1.3		0.2
80	0.2	1.3		2.9		4.5		5.2		4.5		2.9		1.3		0.2
70	0.6	0.5	1.0	1.7	2.5	4.0	5.9	6.9	6.9	5.9	4.0	2.5	1.7	1.0	0.5	0.6
60		0.8	1.6	3.8	8.5	12.1	14.9	16.6	16.6	14.9	12.1	8.5	3.8	1.6	0.8	
50	0.9	1.0	3.2	8.8	14.0	22.4	40.7	67.1	67.1	40.7	22.4	14.0	8.8	3.2	1.0	0.9
40		1.3	6.0	12.2	27.6	191.7	704.7	1082.9	1082.9	704.7	191.7	27.6	12.2	6.0	1.3	
30	1.1	2.0	7.7	17.6	175.4	1065.3	1632.7	1793.4	1793.4	1632.7	1065.3	175.4	17.6	7.7	2.0	1.1
20		2.7	8.9	30.4	607.7	1533.0	1968.3	3214.4	3214.4	1968.3	1533.0	607.7	30.4	8.9	2.7	
10	1.2	3.1	9.7	49.2	902.7	1633.0	3128.3	24103.4	24103.4	3128.3	1633.0	902.7	49.2	9.7	3.1	1.2
0		3.1	9.7	49.2	902.7	1633.0	3128.3	24103.4	24103.4	3128.3	1633.0	902.7	49.2	9.7	3.1	
-10	1.1	2.7	8.9	30.4	607.7	1533.0	1968.3	3214.4	3214.4	1968.3	1533.0	607.7	30.4	8.9	2.7	1.1
-20		2.0	7.7	17.6	175.4	1065.3	1632.7	1793.4	1793.4	1632.7	1065.3	175.4	17.6	7.7	2.0	
-30	0.9	1.3	6.0	12.2	27.6	191.7	704.7	1082.9	1082.9	704.7	191.7	27.6	12.2	6.0	1.3	0.9
-40		1.0	3.2	8.8	14.0	22.4	40.7	67.1	67.1	40.7	22.4	14.0	8.8	3.2	1.0	
-50	0.6	0.8	1.6	3.8	8.5	12.1	14.9	16.6	16.6	14.9	12.1	8.5	3.8	1.6	0.8	0.6
-60		0.5	1.0	1.7	2.5	4.0	5.9	6.9	6.9	5.9	4.0	2.5	1.7	1.0	0.5	
-70	0.2	1.3		2.9		4.5		5.2		4.5		2.9		1.3		0.2
-80		1.3		2.9		4.5		5.2		4.5		2.9		1.3		
-90	0.2	1.3		2.9		4.5		5.2		4.5		2.9		1.3		0.2

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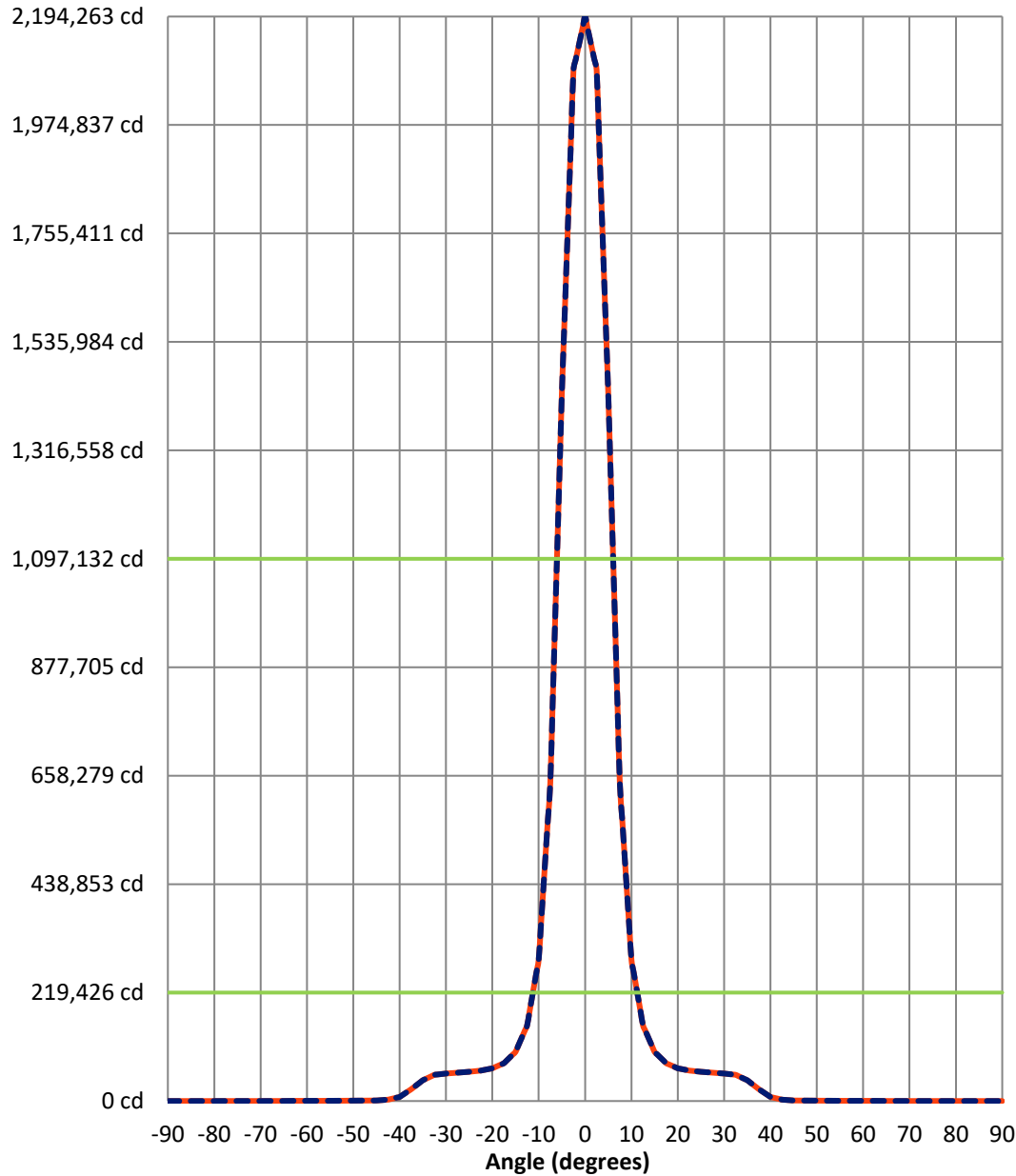
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 12.1°  
 V Angle: 12.1°  
 Lumens: 50489.8  
 Efficiency: 28.6%

**Field:**  
 H Angle: 22.5°  
 V Angle: 22.5°  
 Lumens: 95160.9  
 Efficiency: 53.9%

**Spill:**  
 Lumens: 81512  
 Efficiency: 46.1%

— 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	10.4	11.7	12.9
80°	0.0	1.8	3.5	5.3	7.0	8.8	10.5	12.2	13.9	15.6	17.2
77.5°	0.0	2.2	4.4	6.6	8.8	11.0	13.1	15.3	17.4	19.5	21.5
75°	0.0	2.6	5.3	7.9	10.5	13.1	15.7	18.3	20.8	23.3	25.7
72.5°	0.0	3.1	6.1	9.2	12.2	15.3	18.3	21.3	24.2	27.1	29.9
70°	0.0	3.5	7.0	10.4	13.9	17.4	20.8	24.2	27.5	30.8	34.0
67.5°	0.0	3.9	7.8	11.7	15.6	19.5	23.3	27.1	30.8	34.5	38.1
65°	0.0	4.3	8.6	12.9	17.2	21.5	25.7	29.9	34.0	38.1	42.1
62.5°	0.0	4.7	9.4	14.1	18.8	23.5	28.1	32.7	37.2	41.6	46.1
60°	0.0	5.1	10.2	15.3	20.4	25.4	30.4	35.4	40.3	45.1	50.0
57.5°	0.0	5.5	11.0	16.5	21.9	27.3	32.7	38.0	43.3	48.6	53.7
55°	0.0	5.8	11.7	17.6	23.4	29.2	34.9	40.6	46.3	51.9	57.4
52.5°	0.0	6.2	12.4	18.7	24.9	31.0	37.1	43.2	49.2	55.2	61.0
50°	0.0	6.6	13.1	19.7	26.2	32.7	39.2	45.6	52.0	58.3	67.7
47.5°	0.0	6.9	13.8	20.7	27.6	34.4	41.2	48.0	54.7	61.3	74.4
45°	0.0	7.2	14.5	21.7	28.9	36.0	43.1	50.3	57.3	67.1	81.0
42.5°	0.0	7.5	15.1	22.6	30.1	37.6	45.0	52.5	59.8	72.8	84.6
40°	0.0	7.8	15.7	23.5	31.3	39.0	46.8	54.5	62.9	78.2	87.6
37.5°	0.0	8.1	16.2	24.4	32.4	40.4	48.5	56.5	67.5	82.6	90.4
35°	0.0	8.4	16.8	25.1	33.5	41.8	50.1	58.4	71.8	85.0	94.2
32.5°	0.0	8.6	17.3	25.9	34.5	43.0	51.6	60.1	75.9	87.3	99.3
30°	0.0	8.8	17.7	26.6	35.4	44.2	53.0	62.2	79.7	89.5	104.1
27.5°	0.0	9.0	18.2	27.2	36.3	45.3	54.4	65.3	82.6	91.5	108.6
25°	0.0	9.2	18.6	27.8	37.0	46.3	55.6	68.1	84.2	94.5	112.8
22.5°	0.0	9.4	18.9	28.4	37.8	47.2	56.6	70.7	85.7	97.9	120.4
20°	0.0	9.6	19.3	28.8	38.4	48.0	57.6	73.0	87.0	100.9	127.2
17.5°	0.0	9.7	19.5	29.3	39.0	48.8	58.5	75.1	88.2	103.6	133.3
15°	0.0	9.9	19.8	29.7	39.5	49.4	59.3	76.9	89.2	105.9	138.6
12.5°	0.0	10.0	20.0	30.0	39.9	50.0	59.9	78.4	90.1	107.9	143.1
10°	0.0	10.0	20.2	30.2	40.3	50.4	60.4	79.7	90.8	109.6	146.9
7.5°	0.0	10.1	20.3	30.4	40.5	50.8	60.9	80.6	91.4	110.8	149.8
5°	0.0	10.2	20.4	30.6	40.7	51.0	61.2	81.3	91.8	111.8	151.8
2.5°	0.0	10.2	20.5	30.7	40.9	51.2	61.3	81.8	92.0	112.3	153.1
0°	0.0	10.2	20.5	30.7	40.9	51.2	61.4	81.9	92.1	112.5	153.5
-2.5°	0.0	10.2	20.5	30.7	40.9	51.2	61.3	81.8	92.0	112.3	153.1
-5°	0.0	10.2	20.4	30.6	40.7	51.0	61.2	81.3	91.8	111.8	151.8
-7.5°	0.0	10.1	20.3	30.4	40.5	50.8	60.9	80.6	91.4	110.8	149.8
-10°	0.0	10.0	20.2	30.2	40.3	50.4	60.4	79.7	90.8	109.6	146.9
-12.5°	0.0	10.0	20.0	30.0	39.9	50.0	59.9	78.4	90.1	107.9	143.1
-15°	0.0	9.9	19.8	29.7	39.5	49.4	59.3	76.9	89.2	105.9	138.6
-17.5°	0.0	9.7	19.5	29.3	39.0	48.8	58.5	75.1	88.2	103.6	133.3
-20°	0.0	9.6	19.3	28.8	38.4	48.0	57.6	73.0	87.0	100.9	127.2



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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	18.9	28.4	37.8	47.2	56.6	70.7	85.7	97.9	120.4
-25°	0.0	9.2	18.6	27.8	37.0	46.3	55.6	68.1	84.2	94.5	112.8
-27.5°	0.0	9.0	18.2	27.2	36.3	45.3	54.4	65.3	82.6	91.5	108.6
-30°	0.0	8.8	17.7	26.6	35.4	44.2	53.0	62.2	79.7	89.5	104.1
-32.5°	0.0	8.6	17.3	25.9	34.5	43.0	51.6	60.1	75.9	87.3	99.3
-35°	0.0	8.4	16.8	25.1	33.5	41.8	50.1	58.4	71.8	85.0	94.2
-37.5°	0.0	8.1	16.2	24.4	32.4	40.4	48.5	56.5	67.5	82.6	90.4
-40°	0.0	7.8	15.7	23.5	31.3	39.0	46.8	54.5	62.9	78.2	87.6
-42.5°	0.0	7.5	15.1	22.6	30.1	37.6	45.0	52.5	59.8	72.8	84.6
-45°	0.0	7.2	14.5	21.7	28.9	36.0	43.1	50.3	57.3	67.1	81.0
-47.5°	0.0	6.9	13.8	20.7	27.6	34.4	41.2	48.0	54.7	61.3	74.4
-50°	0.0	6.6	13.1	19.7	26.2	32.7	39.2	45.6	52.0	58.3	67.7
-52.5°	0.0	6.2	12.4	18.7	24.9	31.0	37.1	43.2	49.2	55.2	61.0
-55°	0.0	5.8	11.7	17.6	23.4	29.2	34.9	40.6	46.3	51.9	57.4
-57.5°	0.0	5.5	11.0	16.5	21.9	27.3	32.7	38.0	43.3	48.6	53.7
-60°	0.0	5.1	10.2	15.3	20.4	25.4	30.4	35.4	40.3	45.1	50.0
-62.5°	0.0	4.7	9.4	14.1	18.8	23.5	28.1	32.7	37.2	41.6	46.1
-65°	0.0	4.3	8.6	12.9	17.2	21.5	25.7	29.9	34.0	38.1	42.1
-67.5°	0.0	3.9	7.8	11.7	15.6	19.5	23.3	27.1	30.8	34.5	38.1
-70°	0.0	3.5	7.0	10.4	13.9	17.4	20.8	24.2	27.5	30.8	34.0
-72.5°	0.0	3.1	6.1	9.2	12.2	15.3	18.3	21.3	24.2	27.1	29.9
-75°	0.0	2.6	5.3	7.9	10.5	13.1	15.7	18.3	20.8	23.3	25.7
-77.5°	0.0	2.2	4.4	6.6	8.8	11.0	13.1	15.3	17.4	19.5	21.5
-80°	0.0	1.8	3.5	5.3	7.0	8.8	10.5	12.2	13.9	15.6	17.2
-82.5°	0.0	1.3	2.7	4.0	5.3	6.6	7.9	9.2	10.4	11.7	12.9
-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	11.0	11.7	12.4	13.1	13.8	14.5	15.1	15.7	16.2
82.5°	14.1	15.3	16.5	17.6	18.7	19.7	20.7	21.7	22.6	23.5	24.4
80°	18.8	20.4	21.9	23.4	24.9	26.2	27.6	28.9	30.1	31.3	32.4
77.5°	23.5	25.4	27.3	29.2	31.0	32.7	34.4	36.0	37.6	39.0	40.4
75°	28.1	30.4	32.7	34.9	37.1	39.2	41.2	43.1	45.0	46.8	48.5
72.5°	32.7	35.4	38.0	40.6	43.2	45.6	48.0	50.3	52.5	54.5	56.5
70°	37.2	40.3	43.3	46.3	49.2	52.0	54.7	57.3	59.8	62.9	67.5
67.5°	41.6	45.1	48.6	51.9	55.2	58.3	61.3	67.1	72.8	78.2	82.6
65°	46.1	50.0	53.7	57.4	61.0	67.7	74.4	81.0	84.6	87.6	90.4
62.5°	50.4	54.7	58.8	64.3	72.3	80.0	84.7	88.3	91.7	97.9	104.3
60°	54.7	59.3	66.2	75.1	82.8	87.0	91.0	97.9	105.4	112.8	126.8
57.5°	58.8	66.2	76.0	83.7	88.4	93.8	102.6	111.1	126.2	142.1	177.1
55°	64.3	75.1	83.7	88.9	95.7	105.4	117.4	135.9	155.2	262.4	365.1
52.5°	72.3	82.8	88.4	95.7	106.4	121.3	141.8	204.3	324.2	410.5	414.9
50°	80.0	87.0	93.8	105.4	121.3	143.7	229.0	361.6	412.5	417.5	422.2
47.5°	84.7	91.0	102.6	117.4	141.8	229.0	374.2	413.5	419.0	424.3	429.3
45°	88.3	97.9	111.1	135.9	204.3	361.6	413.5	419.5	425.3	440.7	489.5
42.5°	91.7	105.4	126.2	155.2	324.2	412.5	419.0	425.3	445.5	499.2	561.0
40°	97.9	112.8	142.1	262.4	410.5	417.5	424.3	440.7	499.2	567.6	641.0
37.5°	104.3	126.8	177.1	365.1	414.9	422.2	429.3	489.5	561.0	641.0	749.4
35°	110.3	140.0	267.3	411.4	419.1	426.7	470.3	541.3	627.5	739.6	849.0
32.5°	119.4	152.5	352.6	415.1	423.1	441.8	512.1	600.9	710.6	832.6	933.0
30°	130.1	220.9	410.2	418.6	426.9	478.5	561.5	662.8	796.2	908.0	1024.3
27.5°	140.0	289.4	413.2	421.9	436.4	513.0	611.0	738.1	866.8	982.9	1116.6
25°	149.2	352.6	416.0	424.9	466.0	552.8	662.4	808.5	929.0	1064.0	1801.3
22.5°	179.3	409.4	418.5	427.7	493.2	592.1	722.6	863.8	992.0	1170.4	2595.2
20°	226.7	411.4	420.8	433.9	517.9	627.8	777.4	912.6	1055.9	1847.7	4386.0
17.5°	268.9	413.3	422.9	454.1	546.0	666.1	825.1	956.4	1113.5	2458.8	6504.3
15°	305.8	414.9	424.7	471.8	571.7	705.9	860.7	1002.1	1416.3	3341.2	8482.3
12.5°	337.2	416.3	426.2	487.0	593.8	739.9	891.2	1042.3	1845.2	4835.3	13103.3
10°	363.0	417.5	427.4	499.4	611.9	768.0	916.4	1075.6	2200.9	6076.8	16951.5
7.5°	383.2	418.3	428.4	509.2	626.2	790.0	936.1	1101.7	2480.6	7054.7	19988.4
5°	397.7	419.0	429.1	516.2	636.4	805.8	950.4	1120.6	2682.1	7760.0	22182.0
2.5°	406.4	419.4	429.6	520.4	642.5	815.3	958.9	1131.9	2803.7	8186.0	23508.2
0°	409.3	419.5	429.7	521.8	644.6	818.5	961.8	1135.7	2844.4	8328.5	23952.0
-2.5°	406.4	419.4	429.6	520.4	642.5	815.3	958.9	1131.9	2803.7	8186.0	23508.2
-5°	397.7	419.0	429.1	516.2	636.4	805.8	950.4	1120.6	2682.1	7760.0	22182.0
-7.5°	383.2	418.3	428.4	509.2	626.2	790.0	936.1	1101.7	2480.6	7054.7	19988.4
-10°	363.0	417.5	427.4	499.4	611.9	768.0	916.4	1075.6	2200.9	6076.8	16951.5
-12.5°	337.2	416.3	426.2	487.0	593.8	739.9	891.2	1042.3	1845.2	4835.3	13103.3
-15°	305.8	414.9	424.7	471.8	571.7	705.9	860.7	1002.1	1416.3	3341.2	8482.3
-17.5°	268.9	413.3	422.9	454.1	546.0	666.1	825.1	956.4	1113.5	2458.8	6504.3
-20°	226.7	411.4	420.8	433.9	517.9	627.8	777.4	912.6	1055.9	1847.7	4386.0



REPORT NUMBER: P699934 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-1R-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	179.3	409.4	418.5	427.7	493.2	592.1	722.6	863.8	992.0	1170.4	2595.2
-25°	149.2	352.6	416.0	424.9	466.0	552.8	662.4	808.5	929.0	1064.0	1801.3
-27.5°	140.0	289.4	413.2	421.9	436.4	513.0	611.0	738.1	866.8	982.9	1116.6
-30°	130.1	220.9	410.2	418.6	426.9	478.5	561.5	662.8	796.2	908.0	1024.3
-32.5°	119.4	152.5	352.6	415.1	423.1	441.8	512.1	600.9	710.6	832.6	933.0
-35°	110.3	140.0	267.3	411.4	419.1	426.7	470.3	541.3	627.5	739.6	849.0
-37.5°	104.3	126.8	177.1	365.1	414.9	422.2	429.3	489.5	561.0	641.0	749.4
-40°	97.9	112.8	142.1	262.4	410.5	417.5	424.3	440.7	499.2	567.6	641.0
-42.5°	91.7	105.4	126.2	155.2	324.2	412.5	419.0	425.3	445.5	499.2	561.0
-45°	88.3	97.9	111.1	135.9	204.3	361.6	413.5	419.5	425.3	440.7	489.5
-47.5°	84.7	91.0	102.6	117.4	141.8	229.0	374.2	413.5	419.0	424.3	429.3
-50°	80.0	87.0	93.8	105.4	121.3	143.7	229.0	361.6	412.5	417.5	422.2
-52.5°	72.3	82.8	88.4	95.7	106.4	121.3	141.8	204.3	324.2	410.5	414.9
-55°	64.3	75.1	83.7	88.9	95.7	105.4	117.4	135.9	155.2	262.4	365.1
-57.5°	58.8	66.2	76.0	83.7	88.4	93.8	102.6	111.1	126.2	142.1	177.1
-60°	54.7	59.3	66.2	75.1	82.8	87.0	91.0	97.9	105.4	112.8	126.8
-62.5°	50.4	54.7	58.8	64.3	72.3	80.0	84.7	88.3	91.7	97.9	104.3
-65°	46.1	50.0	53.7	57.4	61.0	67.7	74.4	81.0	84.6	87.6	90.4
-67.5°	41.6	45.1	48.6	51.9	55.2	58.3	61.3	67.1	72.8	78.2	82.6
-70°	37.2	40.3	43.3	46.3	49.2	52.0	54.7	57.3	59.8	62.9	67.5
-72.5°	32.7	35.4	38.0	40.6	43.2	45.6	48.0	50.3	52.5	54.5	56.5
-75°	28.1	30.4	32.7	34.9	37.1	39.2	41.2	43.1	45.0	46.8	48.5
-77.5°	23.5	25.4	27.3	29.2	31.0	32.7	34.4	36.0	37.6	39.0	40.4
-80°	18.8	20.4	21.9	23.4	24.9	26.2	27.6	28.9	30.1	31.3	32.4
-82.5°	14.1	15.3	16.5	17.6	18.7	19.7	20.7	21.7	22.6	23.5	24.4
-85°	9.4	10.2	11.0	11.7	12.4	13.1	13.8	14.5	15.1	15.7	16.2
-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: P699934 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-1R-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°	16.8	17.3	17.7	18.2	18.6	18.9	19.3	19.5	19.8	20.0	20.2
82.5°	25.1	25.9	26.6	27.2	27.8	28.4	28.8	29.3	29.7	30.0	30.2
80°	33.5	34.5	35.4	36.3	37.0	37.8	38.4	39.0	39.5	39.9	40.3
77.5°	41.8	43.0	44.2	45.3	46.3	47.2	48.0	48.8	49.4	50.0	50.4
75°	50.1	51.6	53.0	54.4	55.6	56.6	57.6	58.5	59.3	59.9	60.4
72.5°	58.4	60.1	62.2	65.3	68.1	70.7	73.0	75.1	76.9	78.4	79.7
70°	71.8	75.9	79.7	82.6	84.2	85.7	87.0	88.2	89.2	90.1	90.8
67.5°	85.0	87.3	89.5	91.5	94.5	97.9	100.9	103.6	105.9	107.9	109.6
65°	94.2	99.3	104.1	108.6	112.8	120.4	127.2	133.3	138.6	143.1	146.9
62.5°	110.3	119.4	130.1	140.0	149.2	179.3	226.7	268.9	305.8	337.2	363.0
60°	140.0	152.5	220.9	289.4	352.6	409.4	411.4	413.3	414.9	416.3	417.5
57.5°	267.3	352.6	410.2	413.2	416.0	418.5	420.8	422.9	424.7	426.2	427.4
55°	411.4	415.1	418.6	421.9	424.9	427.7	433.9	454.1	471.8	487.0	499.4
52.5°	419.1	423.1	426.9	436.4	466.0	493.2	517.9	546.0	571.7	593.8	611.9
50°	426.7	441.8	478.5	513.0	552.8	592.1	627.8	666.1	705.9	739.9	768.0
47.5°	470.3	512.1	561.5	611.0	662.4	722.6	777.4	825.1	860.7	891.2	916.4
45°	541.3	600.9	662.8	738.1	808.5	863.8	912.6	956.4	1002.1	1042.3	1075.6
42.5°	627.5	710.6	796.2	866.8	929.0	992.0	1055.9	1113.5	1416.3	1845.2	2200.9
40°	739.6	832.6	908.0	982.9	1064.0	1170.4	1847.7	2458.8	3341.2	4835.3	6076.8
37.5°	849.0	933.0	1024.3	1116.6	1801.3	2595.2	4386.0	6504.3	8482.3	13103.3	16951.5
35°	941.5	1045.2	1263.3	2230.5	3802.1	6535.7	10400.5	16916.3	22711.8	28333.1	33191.3
32.5°	1045.2	1369.1	2447.8	4875.3	8002.0	15744.4	23467.4	31544.9	38824.7	43942.1	47166.9
30°	1263.3	2447.8	5236.3	9517.1	19015.6	28587.8	38212.8	45077.7	49881.4	53312.6	54134.2
27.5°	2230.5	4875.3	9517.1	20117.2	31229.4	42211.2	48505.0	53363.3	54578.6	55644.6	56266.7
25°	3802.1	8002.0	19015.6	31229.4	43051.6	50251.9	53997.2	55454.0	56424.9	57228.1	57919.2
22.5°	6535.7	15744.4	28587.8	42211.2	50251.9	54211.5	55823.4	56907.9	57906.4	58802.0	59685.4
20°	10400.5	23467.4	38212.8	48505.0	53997.2	55823.4	57071.7	58257.1	59398.8	60712.3	62051.3
17.5°	16916.3	31544.9	45077.7	53363.3	55454.0	56907.9	58257.1	59649.8	61244.7	63670.6	66095.5
15°	22711.8	38824.7	49881.4	54578.6	56424.9	57906.4	59398.8	61244.7	64225.9	68586.1	74672.0
12.5°	28333.1	43942.1	53312.6	55644.6	57228.1	58802.0	60712.3	63670.6	68586.1	76150.2	90673.3
10°	33191.3	47166.9	54134.2	56266.7	57919.2	59685.4	62051.3	66095.5	74672.0	90673.3	113633.4
7.5°	37034.1	49724.7	54788.1	56762.8	58477.2	60513.3	63828.4	70409.2	83606.1	106628.6	153818.8
5°	39814.9	51579.7	55263.6	57124.8	58886.2	61123.7	65148.7	73782.0	92177.1	127516.1	207518.4
2.5°	41498.2	52704.3	55552.4	57345.3	59136.0	61498.2	65963.3	75880.3	97573.6	145458.8	264866.2
0°	42061.8	53081.2	55649.3	57419.3	59220.1	61624.5	66238.9	76593.2	99419.7	153099.4	286544.1
-2.5°	41498.2	52704.3	55552.4	57345.3	59136.0	61498.2	65963.3	75880.3	97573.6	145458.8	264866.2
-5°	39814.9	51579.7	55263.6	57124.8	58886.2	61123.7	65148.7	73782.0	92177.1	127516.1	207518.4
-7.5°	37034.1	49724.7	54788.1	56762.8	58477.2	60513.3	63828.4	70409.2	83606.1	106628.6	153818.8
-10°	33191.3	47166.9	54134.2	56266.7	57919.2	59685.4	62051.3	66095.5	74672.0	90673.3	113633.4
-12.5°	28333.1	43942.1	53312.6	55644.6	57228.1	58802.0	60712.3	63670.6	68586.1	76150.2	90673.3
-15°	22711.8	38824.7	49881.4	54578.6	56424.9	57906.4	59398.8	61244.7	64225.9	68586.1	74672.0
-17.5°	16916.3	31544.9	45077.7	53363.3	55454.0	56907.9	58257.1	59649.8	61244.7	63670.6	66095.5
-20°	10400.5	23467.4	38212.8	48505.0	53997.2	55823.4	57071.7	58257.1	59398.8	60712.3	62051.3



REPORT NUMBER: P699934 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-1R-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	6535.7	15744.4	28587.8	42211.2	50251.9	54211.5	55823.4	56907.9	57906.4	58802.0	59685.4
-25°	3802.1	8002.0	19015.6	31229.4	43051.6	50251.9	53997.2	55454.0	56424.9	57228.1	57919.2
-27.5°	2230.5	4875.3	9517.1	20117.2	31229.4	42211.2	48505.0	53363.3	54578.6	55644.6	56266.7
-30°	1263.3	2447.8	5236.3	9517.1	19015.6	28587.8	38212.8	45077.7	49881.4	53312.6	54134.2
-32.5°	1045.2	1369.1	2447.8	4875.3	8002.0	15744.4	23467.4	31544.9	38824.7	43942.1	47166.9
-35°	941.5	1045.2	1263.3	2230.5	3802.1	6535.7	10400.5	16916.3	22711.8	28333.1	33191.3
-37.5°	849.0	933.0	1024.3	1116.6	1801.3	2595.2	4386.0	6504.3	8482.3	13103.3	16951.5
-40°	739.6	832.6	908.0	982.9	1064.0	1170.4	1847.7	2458.8	3341.2	4835.3	6076.8
-42.5°	627.5	710.6	796.2	866.8	929.0	992.0	1055.9	1113.5	1416.3	1845.2	2200.9
-45°	541.3	600.9	662.8	738.1	808.5	863.8	912.6	956.4	1002.1	1042.3	1075.6
-47.5°	470.3	512.1	561.5	611.0	662.4	722.6	777.4	825.1	860.7	891.2	916.4
-50°	426.7	441.8	478.5	513.0	552.8	592.1	627.8	666.1	705.9	739.9	768.0
-52.5°	419.1	423.1	426.9	436.4	466.0	493.2	517.9	546.0	571.7	593.8	611.9
-55°	411.4	415.1	418.6	421.9	424.9	427.7	433.9	454.1	471.8	487.0	499.4
-57.5°	267.3	352.6	410.2	413.2	416.0	418.5	420.8	422.9	424.7	426.2	427.4
-60°	140.0	152.5	220.9	289.4	352.6	409.4	411.4	413.3	414.9	416.3	417.5
-62.5°	110.3	119.4	130.1	140.0	149.2	179.3	226.7	268.9	305.8	337.2	363.0
-65°	94.2	99.3	104.1	108.6	112.8	120.4	127.2	133.3	138.6	143.1	146.9
-67.5°	85.0	87.3	89.5	91.5	94.5	97.9	100.9	103.6	105.9	107.9	109.6
-70°	71.8	75.9	79.7	82.6	84.2	85.7	87.0	88.2	89.2	90.1	90.8
-72.5°	58.4	60.1	62.2	65.3	68.1	70.7	73.0	75.1	76.9	78.4	79.7
-75°	50.1	51.6	53.0	54.4	55.6	56.6	57.6	58.5	59.3	59.9	60.4
-77.5°	41.8	43.0	44.2	45.3	46.3	47.2	48.0	48.8	49.4	50.0	50.4
-80°	33.5	34.5	35.4	36.3	37.0	37.8	38.4	39.0	39.5	39.9	40.3
-82.5°	25.1	25.9	26.6	27.2	27.8	28.4	28.8	29.3	29.7	30.0	30.2
-85°	16.8	17.3	17.7	18.2	18.6	18.9	19.3	19.5	19.8	20.0	20.2
-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: P699934 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-1R-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°	20.3	20.4	20.5	20.5	20.5	20.4	20.3	20.2	20.0	19.8	19.5
82.5°	30.4	30.6	30.7	30.7	30.7	30.6	30.4	30.2	30.0	29.7	29.3
80°	40.5	40.7	40.9	40.9	40.9	40.7	40.5	40.3	39.9	39.5	39.0
77.5°	50.8	51.0	51.2	51.2	51.2	51.0	50.8	50.4	50.0	49.4	48.8
75°	60.9	61.2	61.3	61.4	61.3	61.2	60.9	60.4	59.9	59.3	58.5
72.5°	80.6	81.3	81.8	81.9	81.8	81.3	80.6	79.7	78.4	76.9	75.1
70°	91.4	91.8	92.0	92.1	92.0	91.8	91.4	90.8	90.1	89.2	88.2
67.5°	110.8	111.8	112.3	112.5	112.3	111.8	110.8	109.6	107.9	105.9	103.6
65°	149.8	151.8	153.1	153.5	153.1	151.8	149.8	146.9	143.1	138.6	133.3
62.5°	383.2	397.7	406.4	409.3	406.4	397.7	383.2	363.0	337.2	305.8	268.9
60°	418.3	419.0	419.4	419.5	419.4	419.0	418.3	417.5	416.3	414.9	413.3
57.5°	428.4	429.1	429.6	429.7	429.6	429.1	428.4	427.4	426.2	424.7	422.9
55°	509.2	516.2	520.4	521.8	520.4	516.2	509.2	499.4	487.0	471.8	454.1
52.5°	626.2	636.4	642.5	644.6	642.5	636.4	626.2	611.9	593.8	571.7	546.0
50°	790.0	805.8	815.3	818.5	815.3	805.8	790.0	768.0	739.9	705.9	666.1
47.5°	936.1	950.4	958.9	961.8	958.9	950.4	936.1	916.4	891.2	860.7	825.1
45°	1101.7	1120.6	1131.9	1135.7	1131.9	1120.6	1101.7	1075.6	1042.3	1002.1	956.4
42.5°	2480.6	2682.1	2803.7	2844.4	2803.7	2682.1	2480.6	2200.9	1845.2	1416.3	1113.5
40°	7054.7	7760.0	8186.0	8328.5	8186.0	7760.0	7054.7	6076.8	4835.3	3341.2	2458.8
37.5°	19988.4	22182.0	23508.2	23952.0	23508.2	22182.0	19988.4	16951.5	13103.3	8482.3	6504.3
35°	37034.1	39814.9	41498.2	42061.8	41498.2	39814.9	37034.1	33191.3	28333.1	22711.8	16916.3
32.5°	49724.7	51579.7	52704.3	53081.2	52704.3	51579.7	49724.7	47166.9	43942.1	38824.7	31544.9
30°	54788.1	55263.6	55552.4	55649.3	55552.4	55263.6	54788.1	54134.2	53312.6	49881.4	45077.7
27.5°	56762.8	57124.8	57345.3	57419.3	57345.3	57124.8	56762.8	56266.7	55644.6	54578.6	53363.3
25°	58477.2	58886.2	59136.0	59220.1	59136.0	58886.2	58477.2	57919.2	57228.1	56424.9	55454.0
22.5°	60513.3	61123.7	61498.2	61624.5	61498.2	61123.7	60513.3	59685.4	58802.0	57906.4	56907.9
20°	63828.4	65148.7	65963.3	66238.9	65963.3	65148.7	63828.4	62051.3	60712.3	59398.8	58257.1
17.5°	70409.2	73782.0	75880.3	76593.2	75880.3	73782.0	70409.2	66095.5	63670.6	61244.7	59649.8
15°	83606.1	92177.1	97573.6	99419.7	97573.6	92177.1	83606.1	74672.0	68586.1	64225.9	61244.7
12.5°	106628.6	127516.1	145458.8	153099.4	145458.8	127516.1	106628.6	90673.3	76150.2	68586.1	63670.6
10°	153818.8	207518.4	264866.2	286544.1	264866.2	207518.4	153818.8	113633.4	90673.3	74672.0	66095.5
7.5°	244465.2	391740.1	559339.7	643430.0	559339.7	391740.1	244465.2	153818.8	106628.6	83606.1	70409.2
5°	391740.1	733771.8	#####	#####	#####	733771.8	391740.1	207518.4	127516.1	92177.1	73782.0
2.5°	559339.7	#####	#####	#####	#####	#####	559339.7	264866.2	145458.8	97573.6	75880.3
0°	643430.0	#####	#####	#####	#####	#####	643430.0	286544.1	153099.4	99419.7	76593.2
-2.5°	559339.7	#####	#####	#####	#####	#####	559339.7	264866.2	145458.8	97573.6	75880.3
-5°	391740.1	733771.8	#####	#####	#####	733771.8	391740.1	207518.4	127516.1	92177.1	73782.0
-7.5°	244465.2	391740.1	559339.7	643430.0	559339.7	391740.1	244465.2	153818.8	106628.6	83606.1	70409.2
-10°	153818.8	207518.4	264866.2	286544.1	264866.2	207518.4	153818.8	113633.4	90673.3	74672.0	66095.5
-12.5°	106628.6	127516.1	145458.8	153099.4	145458.8	127516.1	106628.6	90673.3	76150.2	68586.1	63670.6
-15°	83606.1	92177.1	97573.6	99419.7	97573.6	92177.1	83606.1	74672.0	68586.1	64225.9	61244.7
-17.5°	70409.2	73782.0	75880.3	76593.2	75880.3	73782.0	70409.2	66095.5	63670.6	61244.7	59649.8
-20°	63828.4	65148.7	65963.3	66238.9	65963.3	65148.7	63828.4	62051.3	60712.3	59398.8	58257.1



REPORT NUMBER: P699934 (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°	60513.3	61123.7	61498.2	61624.5	61498.2	61123.7	60513.3	59685.4	58802.0	57906.4	56907.9
-25°	58477.2	58886.2	59136.0	59220.1	59136.0	58886.2	58477.2	57919.2	57228.1	56424.9	55454.0
-27.5°	56762.8	57124.8	57345.3	57419.3	57345.3	57124.8	56762.8	56266.7	55644.6	54578.6	53363.3
-30°	54788.1	55263.6	55552.4	55649.3	55552.4	55263.6	54788.1	54134.2	53312.6	49881.4	45077.7
-32.5°	49724.7	51579.7	52704.3	53081.2	52704.3	51579.7	49724.7	47166.9	43942.1	38824.7	31544.9
-35°	37034.1	39814.9	41498.2	42061.8	41498.2	39814.9	37034.1	33191.3	28333.1	22711.8	16916.3
-37.5°	19988.4	22182.0	23508.2	23952.0	23508.2	22182.0	19988.4	16951.5	13103.3	8482.3	6504.3
-40°	7054.7	7760.0	8186.0	8328.5	8186.0	7760.0	7054.7	6076.8	4835.3	3341.2	2458.8
-42.5°	2480.6	2682.1	2803.7	2844.4	2803.7	2682.1	2480.6	2200.9	1845.2	1416.3	1113.5
-45°	1101.7	1120.6	1131.9	1135.7	1131.9	1120.6	1101.7	1075.6	1042.3	1002.1	956.4
-47.5°	936.1	950.4	958.9	961.8	958.9	950.4	936.1	916.4	891.2	860.7	825.1
-50°	790.0	805.8	815.3	818.5	815.3	805.8	790.0	768.0	739.9	705.9	666.1
-52.5°	626.2	636.4	642.5	644.6	642.5	636.4	626.2	611.9	593.8	571.7	546.0
-55°	509.2	516.2	520.4	521.8	520.4	516.2	509.2	499.4	487.0	471.8	454.1
-57.5°	428.4	429.1	429.6	429.7	429.6	429.1	428.4	427.4	426.2	424.7	422.9
-60°	418.3	419.0	419.4	419.5	419.4	419.0	418.3	417.5	416.3	414.9	413.3
-62.5°	383.2	397.7	406.4	409.3	406.4	397.7	383.2	363.0	337.2	305.8	268.9
-65°	149.8	151.8	153.1	153.5	153.1	151.8	149.8	146.9	143.1	138.6	133.3
-67.5°	110.8	111.8	112.3	112.5	112.3	111.8	110.8	109.6	107.9	105.9	103.6
-70°	91.4	91.8	92.0	92.1	92.0	91.8	91.4	90.8	90.1	89.2	88.2
-72.5°	80.6	81.3	81.8	81.9	81.8	81.3	80.6	79.7	78.4	76.9	75.1
-75°	60.9	61.2	61.3	61.4	61.3	61.2	60.9	60.4	59.9	59.3	58.5
-77.5°	50.8	51.0	51.2	51.2	51.2	51.0	50.8	50.4	50.0	49.4	48.8
-80°	40.5	40.7	40.9	40.9	40.9	40.7	40.5	40.3	39.9	39.5	39.0
-82.5°	30.4	30.6	30.7	30.7	30.7	30.6	30.4	30.2	30.0	29.7	29.3
-85°	20.3	20.4	20.5	20.5	20.5	20.4	20.3	20.2	20.0	19.8	19.5
-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°	19.3	18.9	18.6	18.2	17.7	17.3	16.8	16.2	15.7	15.1	14.5
82.5°	28.8	28.4	27.8	27.2	26.6	25.9	25.1	24.4	23.5	22.6	21.7
80°	38.4	37.8	37.0	36.3	35.4	34.5	33.5	32.4	31.3	30.1	28.9
77.5°	48.0	47.2	46.3	45.3	44.2	43.0	41.8	40.4	39.0	37.6	36.0
75°	57.6	56.6	55.6	54.4	53.0	51.6	50.1	48.5	46.8	45.0	43.1
72.5°	73.0	70.7	68.1	65.3	62.2	60.1	58.4	56.5	54.5	52.5	50.3
70°	87.0	85.7	84.2	82.6	79.7	75.9	71.8	67.5	62.9	59.8	57.3
67.5°	100.9	97.9	94.5	91.5	89.5	87.3	85.0	82.6	78.2	72.8	67.1
65°	127.2	120.4	112.8	108.6	104.1	99.3	94.2	90.4	87.6	84.6	81.0
62.5°	226.7	179.3	149.2	140.0	130.1	119.4	110.3	104.3	97.9	91.7	88.3
60°	411.4	409.4	352.6	289.4	220.9	152.5	140.0	126.8	112.8	105.4	97.9
57.5°	420.8	418.5	416.0	413.2	410.2	352.6	267.3	177.1	142.1	126.2	111.1
55°	433.9	427.7	424.9	421.9	418.6	415.1	411.4	365.1	262.4	155.2	135.9
52.5°	517.9	493.2	466.0	436.4	426.9	423.1	419.1	414.9	410.5	324.2	204.3
50°	627.8	592.1	552.8	513.0	478.5	441.8	426.7	422.2	417.5	412.5	361.6
47.5°	777.4	722.6	662.4	611.0	561.5	512.1	470.3	429.3	424.3	419.0	413.5
45°	912.6	863.8	808.5	738.1	662.8	600.9	541.3	489.5	440.7	425.3	419.5
42.5°	1055.9	992.0	929.0	866.8	796.2	710.6	627.5	561.0	499.2	445.5	425.3
40°	1847.7	1170.4	1064.0	982.9	908.0	832.6	739.6	641.0	567.6	499.2	440.7
37.5°	4386.0	2595.2	1801.3	1116.6	1024.3	933.0	849.0	749.4	641.0	561.0	489.5
35°	10400.5	6535.7	3802.1	2230.5	1263.3	1045.2	941.5	849.0	739.6	627.5	541.3
32.5°	23467.4	15744.4	8002.0	4875.3	2447.8	1369.1	1045.2	933.0	832.6	710.6	600.9
30°	38212.8	28587.8	19015.6	9517.1	5236.3	2447.8	1263.3	1024.3	908.0	796.2	662.8
27.5°	48505.0	42211.2	31229.4	20117.2	9517.1	4875.3	2230.5	1116.6	982.9	866.8	738.1
25°	53997.2	50251.9	43051.6	31229.4	19015.6	8002.0	3802.1	1801.3	1064.0	929.0	808.5
22.5°	55823.4	54211.5	50251.9	42211.2	28587.8	15744.4	6535.7	2595.2	1170.4	992.0	863.8
20°	57071.7	55823.4	53997.2	48505.0	38212.8	23467.4	10400.5	4386.0	1847.7	1055.9	912.6
17.5°	58257.1	56907.9	55454.0	53363.3	45077.7	31544.9	16916.3	6504.3	2458.8	1113.5	956.4
15°	59398.8	57906.4	56424.9	54578.6	49881.4	38824.7	22711.8	8482.3	3341.2	1416.3	1002.1
12.5°	60712.3	58802.0	57228.1	55644.6	53312.6	43942.1	28333.1	13103.3	4835.3	1845.2	1042.3
10°	62051.3	59685.4	57919.2	56266.7	54134.2	47166.9	33191.3	16951.5	6076.8	2200.9	1075.6
7.5°	63828.4	60513.3	58477.2	56762.8	54788.1	49724.7	37034.1	19988.4	7054.7	2480.6	1101.7
5°	65148.7	61123.7	58886.2	57124.8	55263.6	51579.7	39814.9	22182.0	7760.0	2682.1	1120.6
2.5°	65963.3	61498.2	59136.0	57345.3	55552.4	52704.3	41498.2	23508.2	8186.0	2803.7	1131.9
0°	<b>66238.9</b>	<b>61624.5</b>	<b>59220.1</b>	<b>57419.3</b>	<b>55649.3</b>	<b>53081.2</b>	<b>42061.8</b>	<b>23952.0</b>	<b>8328.5</b>	<b>2844.4</b>	<b>1135.7</b>
-2.5°	65963.3	61498.2	59136.0	57345.3	55552.4	52704.3	41498.2	23508.2	8186.0	2803.7	1131.9
-5°	65148.7	61123.7	58886.2	57124.8	55263.6	51579.7	39814.9	22182.0	7760.0	2682.1	1120.6
-7.5°	63828.4	60513.3	58477.2	56762.8	54788.1	49724.7	37034.1	19988.4	7054.7	2480.6	1101.7
-10°	62051.3	59685.4	57919.2	56266.7	54134.2	47166.9	33191.3	16951.5	6076.8	2200.9	1075.6
-12.5°	60712.3	58802.0	57228.1	55644.6	53312.6	43942.1	28333.1	13103.3	4835.3	1845.2	1042.3
-15°	59398.8	57906.4	56424.9	54578.6	49881.4	38824.7	22711.8	8482.3	3341.2	1416.3	1002.1
-17.5°	58257.1	56907.9	55454.0	53363.3	45077.7	31544.9	16916.3	6504.3	2458.8	1113.5	956.4
-20°	57071.7	55823.4	53997.2	48505.0	38212.8	23467.4	10400.5	4386.0	1847.7	1055.9	912.6



REPORT NUMBER: P699934 (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°	55823.4	54211.5	50251.9	42211.2	28587.8	15744.4	6535.7	2595.2	1170.4	992.0	863.8
-25°	53997.2	50251.9	43051.6	31229.4	19015.6	8002.0	3802.1	1801.3	1064.0	929.0	808.5
-27.5°	48505.0	42211.2	31229.4	20117.2	9517.1	4875.3	2230.5	1116.6	982.9	866.8	738.1
-30°	38212.8	28587.8	19015.6	9517.1	5236.3	2447.8	1263.3	1024.3	908.0	796.2	662.8
-32.5°	23467.4	15744.4	8002.0	4875.3	2447.8	1369.1	1045.2	933.0	832.6	710.6	600.9
-35°	10400.5	6535.7	3802.1	2230.5	1263.3	1045.2	941.5	849.0	739.6	627.5	541.3
-37.5°	4386.0	2595.2	1801.3	1116.6	1024.3	933.0	849.0	749.4	641.0	561.0	489.5
-40°	1847.7	1170.4	1064.0	982.9	908.0	832.6	739.6	641.0	567.6	499.2	440.7
-42.5°	1055.9	992.0	929.0	866.8	796.2	710.6	627.5	561.0	499.2	445.5	425.3
-45°	912.6	863.8	808.5	738.1	662.8	600.9	541.3	489.5	440.7	425.3	419.5
-47.5°	777.4	722.6	662.4	611.0	561.5	512.1	470.3	429.3	424.3	419.0	413.5
-50°	627.8	592.1	552.8	513.0	478.5	441.8	426.7	422.2	417.5	412.5	361.6
-52.5°	517.9	493.2	466.0	436.4	426.9	423.1	419.1	414.9	410.5	324.2	204.3
-55°	433.9	427.7	424.9	421.9	418.6	415.1	411.4	365.1	262.4	155.2	135.9
-57.5°	420.8	418.5	416.0	413.2	410.2	352.6	267.3	177.1	142.1	126.2	111.1
-60°	411.4	409.4	352.6	289.4	220.9	152.5	140.0	126.8	112.8	105.4	97.9
-62.5°	226.7	179.3	149.2	140.0	130.1	119.4	110.3	104.3	97.9	91.7	88.3
-65°	127.2	120.4	112.8	108.6	104.1	99.3	94.2	90.4	87.6	84.6	81.0
-67.5°	100.9	97.9	94.5	91.5	89.5	87.3	85.0	82.6	78.2	72.8	67.1
-70°	87.0	85.7	84.2	82.6	79.7	75.9	71.8	67.5	62.9	59.8	57.3
-72.5°	73.0	70.7	68.1	65.3	62.2	60.1	58.4	56.5	54.5	52.5	50.3
-75°	57.6	56.6	55.6	54.4	53.0	51.6	50.1	48.5	46.8	45.0	43.1
-77.5°	48.0	47.2	46.3	45.3	44.2	43.0	41.8	40.4	39.0	37.6	36.0
-80°	38.4	37.8	37.0	36.3	35.4	34.5	33.5	32.4	31.3	30.1	28.9
-82.5°	28.8	28.4	27.8	27.2	26.6	25.9	25.1	24.4	23.5	22.6	21.7
-85°	19.3	18.9	18.6	18.2	17.7	17.3	16.8	16.2	15.7	15.1	14.5
-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: P699934 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-1R-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°	13.8	13.1	12.4	11.7	11.0	10.2	9.4	8.6	7.8	7.0	6.1
82.5°	20.7	19.7	18.7	17.6	16.5	15.3	14.1	12.9	11.7	10.4	9.2
80°	27.6	26.2	24.9	23.4	21.9	20.4	18.8	17.2	15.6	13.9	12.2
77.5°	34.4	32.7	31.0	29.2	27.3	25.4	23.5	21.5	19.5	17.4	15.3
75°	41.2	39.2	37.1	34.9	32.7	30.4	28.1	25.7	23.3	20.8	18.3
72.5°	48.0	45.6	43.2	40.6	38.0	35.4	32.7	29.9	27.1	24.2	21.3
70°	54.7	52.0	49.2	46.3	43.3	40.3	37.2	34.0	30.8	27.5	24.2
67.5°	61.3	58.3	55.2	51.9	48.6	45.1	41.6	38.1	34.5	30.8	27.1
65°	74.4	67.7	61.0	57.4	53.7	50.0	46.1	42.1	38.1	34.0	29.9
62.5°	84.7	80.0	72.3	64.3	58.8	54.7	50.4	46.1	41.6	37.2	32.7
60°	91.0	87.0	82.8	75.1	66.2	59.3	54.7	50.0	45.1	40.3	35.4
57.5°	102.6	93.8	88.4	83.7	76.0	66.2	58.8	53.7	48.6	43.3	38.0
55°	117.4	105.4	95.7	88.9	83.7	75.1	64.3	57.4	51.9	46.3	40.6
52.5°	141.8	121.3	106.4	95.7	88.4	82.8	72.3	61.0	55.2	49.2	43.2
50°	229.0	143.7	121.3	105.4	93.8	87.0	80.0	67.7	58.3	52.0	45.6
47.5°	374.2	229.0	141.8	117.4	102.6	91.0	84.7	74.4	61.3	54.7	48.0
45°	413.5	361.6	204.3	135.9	111.1	97.9	88.3	81.0	67.1	57.3	50.3
42.5°	419.0	412.5	324.2	155.2	126.2	105.4	91.7	84.6	72.8	59.8	52.5
40°	424.3	417.5	410.5	262.4	142.1	112.8	97.9	87.6	78.2	62.9	54.5
37.5°	429.3	422.2	414.9	365.1	177.1	126.8	104.3	90.4	82.6	67.5	56.5
35°	470.3	426.7	419.1	411.4	267.3	140.0	110.3	94.2	85.0	71.8	58.4
32.5°	512.1	441.8	423.1	415.1	352.6	152.5	119.4	99.3	87.3	75.9	60.1
30°	561.5	478.5	426.9	418.6	410.2	220.9	130.1	104.1	89.5	79.7	62.2
27.5°	611.0	513.0	436.4	421.9	413.2	289.4	140.0	108.6	91.5	82.6	65.3
25°	662.4	552.8	466.0	424.9	416.0	352.6	149.2	112.8	94.5	84.2	68.1
22.5°	722.6	592.1	493.2	427.7	418.5	409.4	179.3	120.4	97.9	85.7	70.7
20°	777.4	627.8	517.9	433.9	420.8	411.4	226.7	127.2	100.9	87.0	73.0
17.5°	825.1	666.1	546.0	454.1	422.9	413.3	268.9	133.3	103.6	88.2	75.1
15°	860.7	705.9	571.7	471.8	424.7	414.9	305.8	138.6	105.9	89.2	76.9
12.5°	891.2	739.9	593.8	487.0	426.2	416.3	337.2	143.1	107.9	90.1	78.4
10°	916.4	768.0	611.9	499.4	427.4	417.5	363.0	146.9	109.6	90.8	79.7
7.5°	936.1	790.0	626.2	509.2	428.4	418.3	383.2	149.8	110.8	91.4	80.6
5°	950.4	805.8	636.4	516.2	429.1	419.0	397.7	151.8	111.8	91.8	81.3
2.5°	958.9	815.3	642.5	520.4	429.6	419.4	406.4	153.1	112.3	92.0	81.8
0°	961.8	818.5	644.6	521.8	429.7	419.5	409.3	153.5	112.5	92.1	81.9
-2.5°	958.9	815.3	642.5	520.4	429.6	419.4	406.4	153.1	112.3	92.0	81.8
-5°	950.4	805.8	636.4	516.2	429.1	419.0	397.7	151.8	111.8	91.8	81.3
-7.5°	936.1	790.0	626.2	509.2	428.4	418.3	383.2	149.8	110.8	91.4	80.6
-10°	916.4	768.0	611.9	499.4	427.4	417.5	363.0	146.9	109.6	90.8	79.7
-12.5°	891.2	739.9	593.8	487.0	426.2	416.3	337.2	143.1	107.9	90.1	78.4
-15°	860.7	705.9	571.7	471.8	424.7	414.9	305.8	138.6	105.9	89.2	76.9
-17.5°	825.1	666.1	546.0	454.1	422.9	413.3	268.9	133.3	103.6	88.2	75.1
-20°	777.4	627.8	517.9	433.9	420.8	411.4	226.7	127.2	100.9	87.0	73.0



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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°	722.6	592.1	493.2	427.7	418.5	409.4	179.3	120.4	97.9	85.7	70.7
-25°	662.4	552.8	466.0	424.9	416.0	352.6	149.2	112.8	94.5	84.2	68.1
-27.5°	611.0	513.0	436.4	421.9	413.2	289.4	140.0	108.6	91.5	82.6	65.3
-30°	561.5	478.5	426.9	418.6	410.2	220.9	130.1	104.1	89.5	79.7	62.2
-32.5°	512.1	441.8	423.1	415.1	352.6	152.5	119.4	99.3	87.3	75.9	60.1
-35°	470.3	426.7	419.1	411.4	267.3	140.0	110.3	94.2	85.0	71.8	58.4
-37.5°	429.3	422.2	414.9	365.1	177.1	126.8	104.3	90.4	82.6	67.5	56.5
-40°	424.3	417.5	410.5	262.4	142.1	112.8	97.9	87.6	78.2	62.9	54.5
-42.5°	419.0	412.5	324.2	155.2	126.2	105.4	91.7	84.6	72.8	59.8	52.5
-45°	413.5	361.6	204.3	135.9	111.1	97.9	88.3	81.0	67.1	57.3	50.3
-47.5°	374.2	229.0	141.8	117.4	102.6	91.0	84.7	74.4	61.3	54.7	48.0
-50°	229.0	143.7	121.3	105.4	93.8	87.0	80.0	67.7	58.3	52.0	45.6
-52.5°	141.8	121.3	106.4	95.7	88.4	82.8	72.3	61.0	55.2	49.2	43.2
-55°	117.4	105.4	95.7	88.9	83.7	75.1	64.3	57.4	51.9	46.3	40.6
-57.5°	102.6	93.8	88.4	83.7	76.0	66.2	58.8	53.7	48.6	43.3	38.0
-60°	91.0	87.0	82.8	75.1	66.2	59.3	54.7	50.0	45.1	40.3	35.4
-62.5°	84.7	80.0	72.3	64.3	58.8	54.7	50.4	46.1	41.6	37.2	32.7
-65°	74.4	67.7	61.0	57.4	53.7	50.0	46.1	42.1	38.1	34.0	29.9
-67.5°	61.3	58.3	55.2	51.9	48.6	45.1	41.6	38.1	34.5	30.8	27.1
-70°	54.7	52.0	49.2	46.3	43.3	40.3	37.2	34.0	30.8	27.5	24.2
-72.5°	48.0	45.6	43.2	40.6	38.0	35.4	32.7	29.9	27.1	24.2	21.3
-75°	41.2	39.2	37.1	34.9	32.7	30.4	28.1	25.7	23.3	20.8	18.3
-77.5°	34.4	32.7	31.0	29.2	27.3	25.4	23.5	21.5	19.5	17.4	15.3
-80°	27.6	26.2	24.9	23.4	21.9	20.4	18.8	17.2	15.6	13.9	12.2
-82.5°	20.7	19.7	18.7	17.6	16.5	15.3	14.1	12.9	11.7	10.4	9.2
-85°	13.8	13.1	12.4	11.7	11.0	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°	10.5	8.8	7.0	5.3	3.5	1.8	0.0
77.5°	13.1	11.0	8.8	6.6	4.4	2.2	0.0
75°	15.7	13.1	10.5	7.9	5.3	2.6	0.0
72.5°	18.3	15.3	12.2	9.2	6.1	3.1	0.0
70°	20.8	17.4	13.9	10.4	7.0	3.5	0.0
67.5°	23.3	19.5	15.6	11.7	7.8	3.9	0.0
65°	25.7	21.5	17.2	12.9	8.6	4.3	0.0
62.5°	28.1	23.5	18.8	14.1	9.4	4.7	0.0
60°	30.4	25.4	20.4	15.3	10.2	5.1	0.0
57.5°	32.7	27.3	21.9	16.5	11.0	5.5	0.0
55°	34.9	29.2	23.4	17.6	11.7	5.8	0.0
52.5°	37.1	31.0	24.9	18.7	12.4	6.2	0.0
50°	39.2	32.7	26.2	19.7	13.1	6.6	0.0
47.5°	41.2	34.4	27.6	20.7	13.8	6.9	0.0
45°	43.1	36.0	28.9	21.7	14.5	7.2	0.0
42.5°	45.0	37.6	30.1	22.6	15.1	7.5	0.0
40°	46.8	39.0	31.3	23.5	15.7	7.8	0.0
37.5°	48.5	40.4	32.4	24.4	16.2	8.1	0.0
35°	50.1	41.8	33.5	25.1	16.8	8.4	0.0
32.5°	51.6	43.0	34.5	25.9	17.3	8.6	0.0
30°	53.0	44.2	35.4	26.6	17.7	8.8	0.0
27.5°	54.4	45.3	36.3	27.2	18.2	9.0	0.0
25°	55.6	46.3	37.0	27.8	18.6	9.2	0.0
22.5°	56.6	47.2	37.8	28.4	18.9	9.4	0.0
20°	57.6	48.0	38.4	28.8	19.3	9.6	0.0
17.5°	58.5	48.8	39.0	29.3	19.5	9.7	0.0
15°	59.3	49.4	39.5	29.7	19.8	9.9	0.0
12.5°	59.9	50.0	39.9	30.0	20.0	10.0	0.0
10°	60.4	50.4	40.3	30.2	20.2	10.0	0.0
7.5°	60.9	50.8	40.5	30.4	20.3	10.1	0.0
5°	61.2	51.0	40.7	30.6	20.4	10.2	0.0
2.5°	61.3	51.2	40.9	30.7	20.5	10.2	0.0
0°	61.4	51.2	40.9	30.7	20.5	10.2	0.0
-2.5°	61.3	51.2	40.9	30.7	20.5	10.2	0.0
-5°	61.2	51.0	40.7	30.6	20.4	10.2	0.0
-7.5°	60.9	50.8	40.5	30.4	20.3	10.1	0.0
-10°	60.4	50.4	40.3	30.2	20.2	10.0	0.0
-12.5°	59.9	50.0	39.9	30.0	20.0	10.0	0.0
-15°	59.3	49.4	39.5	29.7	19.8	9.9	0.0
-17.5°	58.5	48.8	39.0	29.3	19.5	9.7	0.0
-20°	57.6	48.0	38.4	28.8	19.3	9.6	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	56.6	47.2	37.8	28.4	18.9	9.4	0.0
-25°	55.6	46.3	37.0	27.8	18.6	9.2	0.0
-27.5°	54.4	45.3	36.3	27.2	18.2	9.0	0.0
-30°	53.0	44.2	35.4	26.6	17.7	8.8	0.0
-32.5°	51.6	43.0	34.5	25.9	17.3	8.6	0.0
-35°	50.1	41.8	33.5	25.1	16.8	8.4	0.0
-37.5°	48.5	40.4	32.4	24.4	16.2	8.1	0.0
-40°	46.8	39.0	31.3	23.5	15.7	7.8	0.0
-42.5°	45.0	37.6	30.1	22.6	15.1	7.5	0.0
-45°	43.1	36.0	28.9	21.7	14.5	7.2	0.0
-47.5°	41.2	34.4	27.6	20.7	13.8	6.9	0.0
-50°	39.2	32.7	26.2	19.7	13.1	6.6	0.0
-52.5°	37.1	31.0	24.9	18.7	12.4	6.2	0.0
-55°	34.9	29.2	23.4	17.6	11.7	5.8	0.0
-57.5°	32.7	27.3	21.9	16.5	11.0	5.5	0.0
-60°	30.4	25.4	20.4	15.3	10.2	5.1	0.0
-62.5°	28.1	23.5	18.8	14.1	9.4	4.7	0.0
-65°	25.7	21.5	17.2	12.9	8.6	4.3	0.0
-67.5°	23.3	19.5	15.6	11.7	7.8	3.9	0.0
-70°	20.8	17.4	13.9	10.4	7.0	3.5	0.0
-72.5°	18.3	15.3	12.2	9.2	6.1	3.1	0.0
-75°	15.7	13.1	10.5	7.9	5.3	2.6	0.0
-77.5°	13.1	11.0	8.8	6.6	4.4	2.2	0.0
-80°	10.5	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)