

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: P699954 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200R-40-80-4R-S**

Issue Date: 8/10/2023

**Test Information**

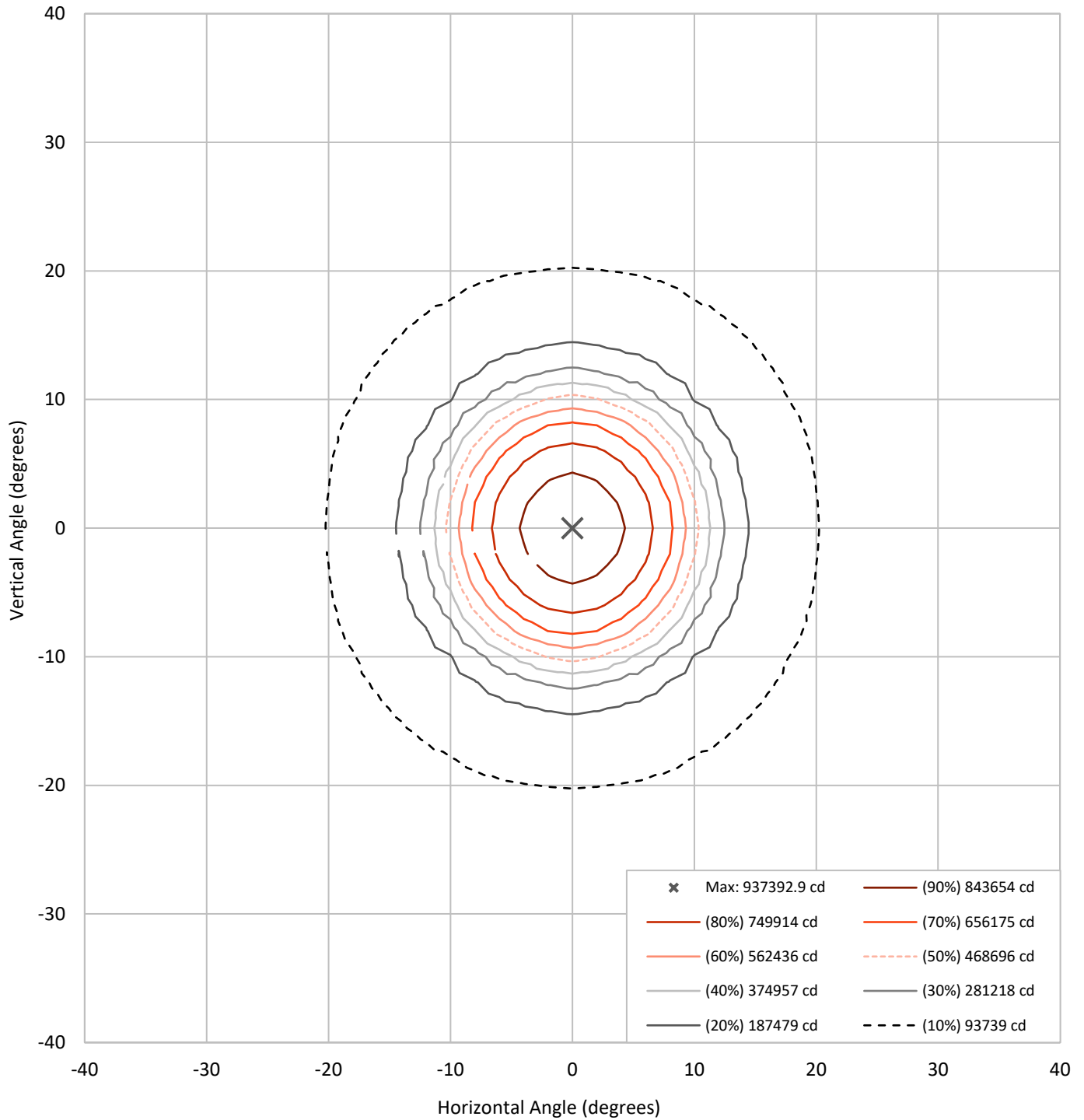
Test Method: LM-79-08  
Report Number: P699954 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-LS-16-1200R-40-80-4R-S  
Description: EPHEBUS LUMASPORT 16 LUMINAIRE  
(16) 4000K, 80 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:	182407.6 lumens	Max Intensity:	937392.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	146.6 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:	70026.2 lumens	Field Lumens:	123599 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





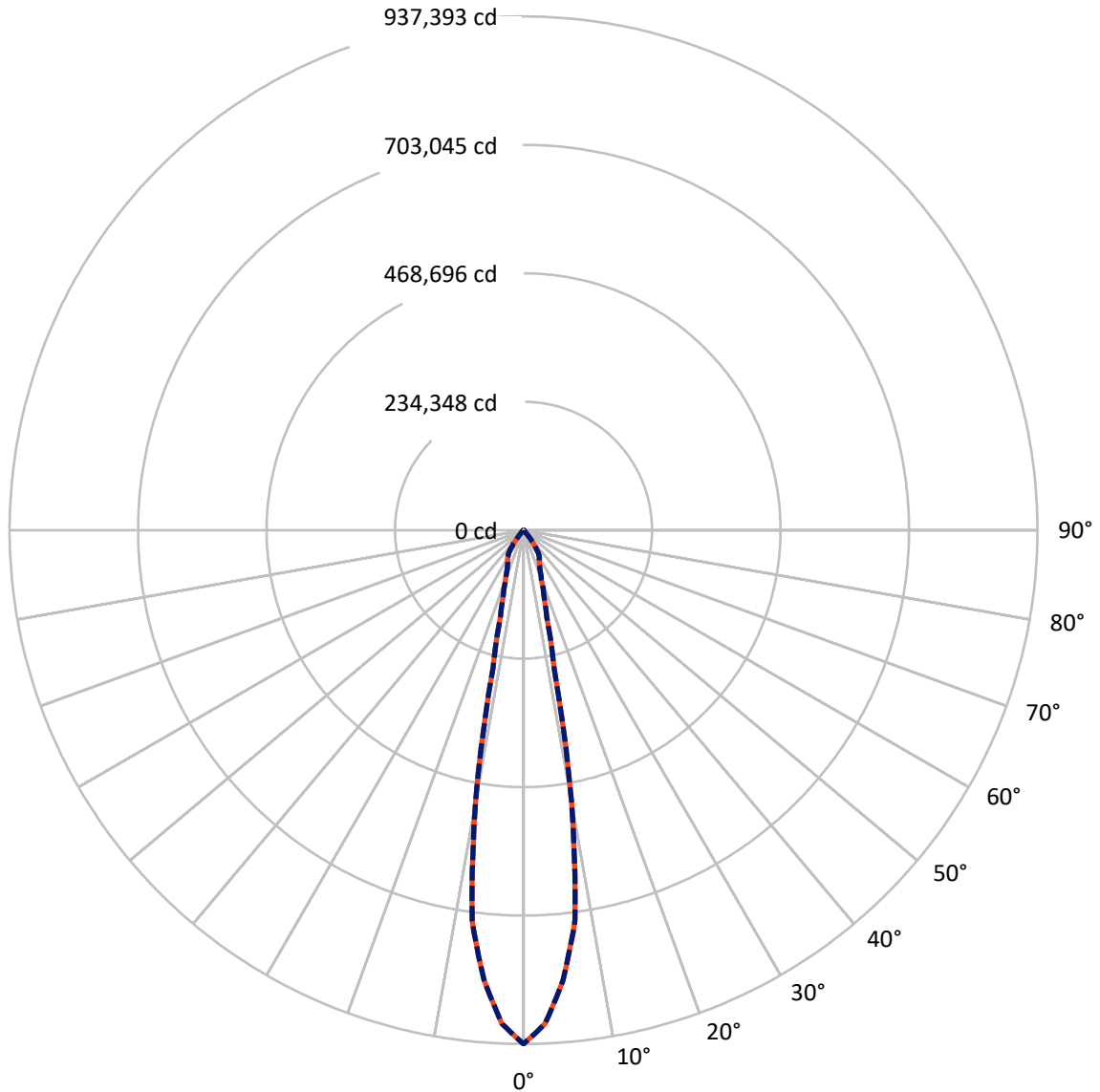
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### Lumen Table

90	0.3	1.4	3.1	4.8	5.5	4.8	3.1	1.4	0.3							
80	0.3	1.4	3.1	4.8	5.5	4.8	3.1	1.4	0.3							
70	0.6	0.6	1.1	1.8	2.8	4.1	5.3	5.9	5.9	5.3	4.1	2.8	1.8	1.1	0.6	0.6
60		0.8	1.8	3.7	7.2	12.1	16.5	19.0	19.0	16.5	12.1	7.2	3.7	1.8	0.8	
50	0.9	1.1	3.0	7.9	16.6	30.5	69.8	116.9	116.9	69.8	30.5	16.6	7.9	3.0	1.1	0.9
40		1.5	5.1	14.4	44.5	264.3	748.6	1094.7	1094.7	748.6	264.3	44.5	14.4	5.1	1.5	
30	1.2	2.0	7.8	24.0	241.4	1065.8	1731.5	2093.3	2093.3	1731.5	1065.8	241.4	24.0	7.8	2.0	1.2
20		2.4	10.0	52.5	643.4	1627.1	2717.3	5227.7	5227.7	2717.3	1627.1	643.4	52.5	10.0	2.4	
10	1.3	2.6	11.1	85.9	911.0	1909.7	5090.3	19627.6	19627.6	5090.3	1909.7	911.0	85.9	11.1	2.6	1.3
0		2.6	11.1	85.9	911.0	1909.7	5090.3	19627.6	19627.6	5090.3	1909.7	911.0	85.9	11.1	2.6	
-10	1.2	2.4	10.0	52.5	643.4	1627.1	2717.3	5227.7	5227.7	2717.3	1627.1	643.4	52.5	10.0	2.4	1.2
-20		2.0	7.8	24.0	241.4	1065.8	1731.5	2093.3	2093.3	1731.5	1065.8	241.4	24.0	7.8	2.0	
-30	0.9	1.5	5.1	14.4	44.5	264.3	748.6	1094.7	1094.7	748.6	264.3	44.5	14.4	5.1	1.5	0.9
-40		1.1	3.0	7.9	16.6	30.5	69.8	116.9	116.9	69.8	30.5	16.6	7.9	3.0	1.1	
-50	0.6	0.8	1.8	3.7	7.2	12.1	16.5	19.0	19.0	16.5	12.1	7.2	3.7	1.8	0.8	0.6
-60		0.6	1.1	1.8	2.8	4.1	5.3	5.9	5.9	5.3	4.1	2.8	1.8	1.1	0.6	
-70	0.3	1.4	3.1	4.8	5.5	4.8	3.1	1.4	0.3							
-80		0.3	1.4	3.1	4.8	5.5	4.8	3.1	1.4	0.3						
-90	0.3	1.4	3.1	4.8	5.5	4.8	3.1	1.4	0.3							

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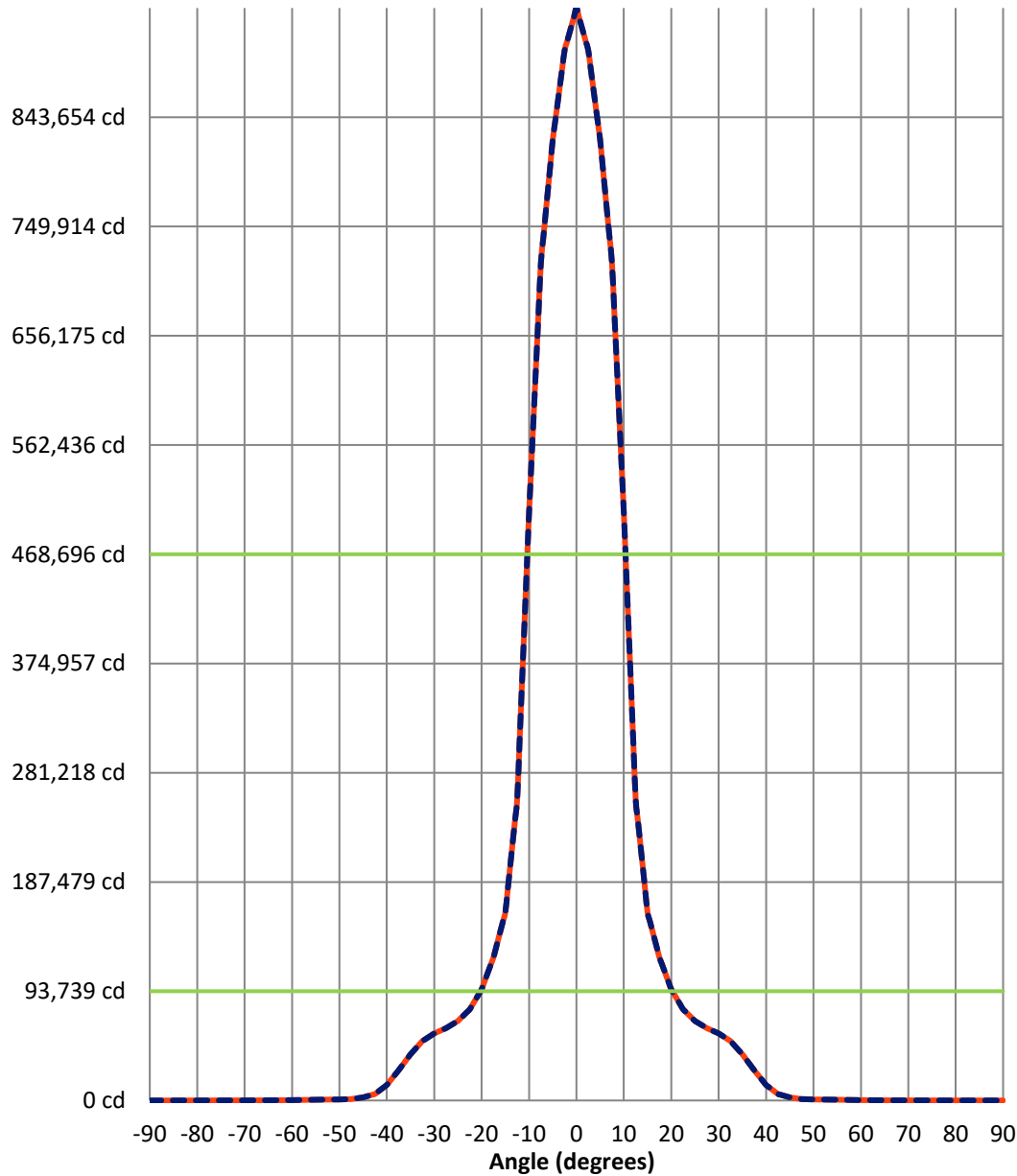
### Luminous Intensity Polar Plot



— 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: 70026.2  
 Efficiency: 38.4%

**Field:**  
 H Angle: 40.5°  
 V Angle: 40.5°  
 Lumens: 123599  
 Efficiency: 67.8%

**Spill:**  
 Lumens: 58808.6  
 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	1.3	2.0	2.7	3.3	4.0	4.6	5.3	5.9	6.5
85°	0.0	1.3	2.7	4.0	5.3	6.7	8.0	9.3	10.5	11.8	13.0
82.5°	0.0	2.0	4.0	6.0	8.0	10.0	11.9	13.9	15.6	16.4	17.2
80°	0.0	2.7	5.3	8.0	10.6	13.3	15.6	16.7	17.9	19.0	20.0
77.5°	0.0	3.3	6.7	10.0	13.3	15.9	17.3	18.8	20.1	21.5	23.1
75°	0.0	4.0	8.0	11.9	15.6	17.3	19.0	20.7	22.5	24.6	26.6
72.5°	0.0	4.6	9.3	13.9	16.7	18.8	20.7	22.8	25.3	27.7	30.1
70°	0.0	5.3	10.5	15.6	17.9	20.1	22.5	25.3	28.1	30.9	34.2
67.5°	0.0	5.9	11.8	16.4	19.0	21.5	24.6	27.7	30.9	34.7	38.5
65°	0.0	6.5	13.0	17.2	20.0	23.1	26.6	30.1	34.2	38.5	42.7
62.5°	0.0	7.1	14.2	18.0	21.1	24.7	28.6	32.8	37.5	42.2	47.2
60°	0.0	7.7	15.4	18.8	22.1	26.4	30.6	35.7	40.7	46.2	51.6
57.5°	0.0	8.3	15.9	19.5	23.4	28.0	32.9	38.4	44.1	50.1	56.6
55°	0.0	8.8	16.4	20.3	24.7	29.5	35.2	41.1	47.5	54.0	61.8
52.5°	0.0	9.4	16.9	21.0	25.9	31.1	37.4	43.9	50.8	58.6	66.9
50°	0.0	9.9	17.3	21.7	27.0	32.9	39.6	46.7	54.2	63.0	72.7
47.5°	0.0	10.4	17.8	22.4	28.2	34.7	41.7	49.4	58.0	67.3	78.5
45°	0.0	10.9	18.2	23.2	29.3	36.3	43.9	52.0	61.6	72.3	84.0
42.5°	0.0	11.4	18.6	24.0	30.3	37.9	46.0	54.8	65.1	77.1	90.3
40°	0.0	11.8	19.0	24.7	31.4	39.5	48.1	57.7	68.7	81.6	96.5
37.5°	0.0	12.2	19.4	25.4	32.6	40.9	50.0	60.5	72.6	86.3	102.4
35°	0.0	12.6	19.7	26.1	33.7	42.4	51.8	63.1	76.2	91.3	108.5
32.5°	0.0	13.0	20.1	26.7	34.7	43.8	53.6	65.6	79.7	96.0	114.7
30°	0.0	13.3	20.4	27.3	35.7	45.1	55.6	68.1	82.9	100.5	120.6
27.5°	0.0	13.7	20.7	27.9	36.6	46.4	57.4	70.7	86.2	104.6	126.1
25°	0.0	14.0	20.9	28.4	37.4	47.5	59.1	73.1	89.5	108.8	131.5
22.5°	0.0	14.2	21.2	28.8	38.1	48.5	60.7	75.3	92.6	113.0	143.3
20°	0.0	14.5	21.4	29.2	38.8	49.5	62.1	77.2	95.3	116.7	153.9
17.5°	0.0	14.7	21.6	29.6	39.4	50.3	63.3	79.0	97.8	120.0	163.3
15°	0.0	14.9	21.7	29.9	39.9	51.0	64.4	80.5	99.9	122.9	171.5
12.5°	0.0	15.0	21.9	30.2	40.4	51.6	65.3	81.8	101.7	125.4	178.5
10°	0.0	15.2	22.0	30.4	40.7	52.1	66.1	82.9	103.2	127.4	184.3
7.5°	0.0	15.3	22.1	30.6	41.0	52.5	66.6	83.7	104.4	129.0	188.8
5°	0.0	15.3	22.1	30.7	41.2	52.8	67.1	84.3	105.2	130.1	192.0
2.5°	0.0	15.4	22.2	30.8	41.4	52.9	67.3	84.7	105.7	130.8	194.0
0°	0.0	15.4	22.2	30.8	41.4	53.0	67.4	84.8	105.9	131.0	194.6
-2.5°	0.0	15.4	22.2	30.8	41.4	52.9	67.3	84.7	105.7	130.8	194.0
-5°	0.0	15.3	22.1	30.7	41.2	52.8	67.1	84.3	105.2	130.1	192.0
-7.5°	0.0	15.3	22.1	30.6	41.0	52.5	66.6	83.7	104.4	129.0	188.8
-10°	0.0	15.2	22.0	30.4	40.7	52.1	66.1	82.9	103.2	127.4	184.3
-12.5°	0.0	15.0	21.9	30.2	40.4	51.6	65.3	81.8	101.7	125.4	178.5
-15°	0.0	14.9	21.7	29.9	39.9	51.0	64.4	80.5	99.9	122.9	171.5
-17.5°	0.0	14.7	21.6	29.6	39.4	50.3	63.3	79.0	97.8	120.0	163.3
-20°	0.0	14.5	21.4	29.2	38.8	49.5	62.1	77.2	95.3	116.7	153.9



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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	14.2	21.2	28.8	38.1	48.5	60.7	75.3	92.6	113.0	143.3
-25°	0.0	14.0	20.9	28.4	37.4	47.5	59.1	73.1	89.5	108.8	131.5
-27.5°	0.0	13.7	20.7	27.9	36.6	46.4	57.4	70.7	86.2	104.6	126.1
-30°	0.0	13.3	20.4	27.3	35.7	45.1	55.6	68.1	82.9	100.5	120.6
-32.5°	0.0	13.0	20.1	26.7	34.7	43.8	53.6	65.6	79.7	96.0	114.7
-35°	0.0	12.6	19.7	26.1	33.7	42.4	51.8	63.1	76.2	91.3	108.5
-37.5°	0.0	12.2	19.4	25.4	32.6	40.9	50.0	60.5	72.6	86.3	102.4
-40°	0.0	11.8	19.0	24.7	31.4	39.5	48.1	57.7	68.7	81.6	96.5
-42.5°	0.0	11.4	18.6	24.0	30.3	37.9	46.0	54.8	65.1	77.1	90.3
-45°	0.0	10.9	18.2	23.2	29.3	36.3	43.9	52.0	61.6	72.3	84.0
-47.5°	0.0	10.4	17.8	22.4	28.2	34.7	41.7	49.4	58.0	67.3	78.5
-50°	0.0	9.9	17.3	21.7	27.0	32.9	39.6	46.7	54.2	63.0	72.7
-52.5°	0.0	9.4	16.9	21.0	25.9	31.1	37.4	43.9	50.8	58.6	66.9
-55°	0.0	8.8	16.4	20.3	24.7	29.5	35.2	41.1	47.5	54.0	61.8
-57.5°	0.0	8.3	15.9	19.5	23.4	28.0	32.9	38.4	44.1	50.1	56.6
-60°	0.0	7.7	15.4	18.8	22.1	26.4	30.6	35.7	40.7	46.2	51.6
-62.5°	0.0	7.1	14.2	18.0	21.1	24.7	28.6	32.8	37.5	42.2	47.2
-65°	0.0	6.5	13.0	17.2	20.0	23.1	26.6	30.1	34.2	38.5	42.7
-67.5°	0.0	5.9	11.8	16.4	19.0	21.5	24.6	27.7	30.9	34.7	38.5
-70°	0.0	5.3	10.5	15.6	17.9	20.1	22.5	25.3	28.1	30.9	34.2
-72.5°	0.0	4.6	9.3	13.9	16.7	18.8	20.7	22.8	25.3	27.7	30.1
-75°	0.0	4.0	8.0	11.9	15.6	17.3	19.0	20.7	22.5	24.6	26.6
-77.5°	0.0	3.3	6.7	10.0	13.3	15.9	17.3	18.8	20.1	21.5	23.1
-80°	0.0	2.7	5.3	8.0	10.6	13.3	15.6	16.7	17.9	19.0	20.0
-82.5°	0.0	2.0	4.0	6.0	8.0	10.0	11.9	13.9	15.6	16.4	17.2
-85°	0.0	1.3	2.7	4.0	5.3	6.7	8.0	9.3	10.5	11.8	13.0
-87.5°	0.0	0.7	1.3	2.0	2.7	3.3	4.0	4.6	5.3	5.9	6.5
-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°	7.1	7.7	8.3	8.8	9.4	9.9	10.4	10.9	11.4	11.8	12.2
85°	14.2	15.4	15.9	16.4	16.9	17.3	17.8	18.2	18.6	19.0	19.4
82.5°	18.0	18.8	19.5	20.3	21.0	21.7	22.4	23.2	24.0	24.7	25.4
80°	21.1	22.1	23.4	24.7	25.9	27.0	28.2	29.3	30.3	31.4	32.6
77.5°	24.7	26.4	28.0	29.5	31.1	32.9	34.7	36.3	37.9	39.5	40.9
75°	28.6	30.6	32.9	35.2	37.4	39.6	41.7	43.9	46.0	48.1	50.0
72.5°	32.8	35.7	38.4	41.1	43.9	46.7	49.4	52.0	54.8	57.7	60.5
70°	37.5	40.7	44.1	47.5	50.8	54.2	58.0	61.6	65.1	68.7	72.6
67.5°	42.2	46.2	50.1	54.0	58.6	63.0	67.3	72.3	77.1	81.6	86.3
65°	47.2	51.6	56.6	61.8	66.9	72.7	78.5	84.0	90.3	96.5	102.4
62.5°	52.1	57.9	63.7	69.9	76.6	83.2	90.5	97.9	105.1	113.1	120.9
60°	57.9	64.4	71.5	79.0	86.7	95.3	103.7	113.0	122.3	131.5	153.1
57.5°	63.7	71.5	79.8	88.6	98.2	108.0	118.8	129.3	152.3	176.9	199.5
55°	69.9	79.0	88.6	99.2	110.3	122.3	138.6	167.3	195.0	217.1	238.4
52.5°	76.6	86.7	98.2	110.3	123.5	144.6	176.4	205.1	229.9	258.1	296.9
50°	83.2	95.3	108.0	122.3	144.6	179.5	210.2	237.6	275.8	319.1	379.1
47.5°	90.5	103.7	118.8	138.6	176.4	210.2	240.2	284.6	332.6	411.3	490.3
45°	97.9	113.0	129.3	167.3	205.1	237.6	284.6	337.1	427.5	516.0	604.9
42.5°	105.1	122.3	152.3	195.0	229.9	275.8	332.6	427.5	524.7	622.5	702.9
40°	113.1	131.5	176.9	217.1	258.1	319.1	411.3	516.0	622.5	709.6	783.3
37.5°	120.9	153.1	199.5	238.4	296.9	379.1	490.3	604.9	702.9	783.3	843.2
35°	128.2	173.7	218.1	266.3	333.9	449.7	569.8	683.1	769.8	837.9	952.7
32.5°	141.7	193.1	235.8	298.8	393.8	518.0	645.9	743.0	822.3	913.8	1152.1
30°	158.2	208.5	255.8	329.4	452.6	584.9	703.5	796.7	868.3	1092.6	1746.9
27.5°	173.7	222.7	282.0	374.1	508.2	647.6	753.2	837.1	994.8	1398.4	2525.3
25°	188.0	235.8	306.3	421.1	562.1	694.7	796.4	874.9	1142.5	2081.8	3803.8
22.5°	199.9	247.9	328.6	464.2	611.5	734.2	828.8	987.7	1474.8	2744.4	5136.8
20°	209.7	266.3	357.7	503.7	656.4	770.1	858.2	1103.5	2013.8	3881.8	7742.7
17.5°	218.5	282.6	389.6	540.5	687.9	798.5	895.9	1207.5	2498.9	4907.9	10748.2
15°	226.1	296.9	417.5	572.7	713.7	819.8	980.3	1560.1	3157.4	6260.2	13461.1
12.5°	232.6	309.1	441.3	600.2	735.9	838.1	1052.7	1899.0	3877.5	8380.2	17204.5
10°	237.9	319.1	460.9	622.9	754.1	853.2	1112.5	2179.6	4474.8	10141.7	20321.9
7.5°	242.1	327.0	476.2	640.6	768.4	865.0	1159.4	2400.0	4944.5	11529.2	22782.1
5°	245.1	332.6	487.2	653.4	778.7	873.5	1193.2	2558.6	5282.9	12529.9	24559.1
2.5°	246.9	336.0	493.8	661.0	784.8	878.6	1213.5	2654.2	5487.0	13134.4	25633.5
0°	247.5	337.1	496.0	663.6	786.9	880.3	1220.3	2686.2	5555.3	13336.5	25993.0
-2.5°	246.9	336.0	493.8	661.0	784.8	878.6	1213.5	2654.2	5487.0	13134.4	25633.5
-5°	245.1	332.6	487.2	653.4	778.7	873.5	1193.2	2558.6	5282.9	12529.9	24559.1
-7.5°	242.1	327.0	476.2	640.6	768.4	865.0	1159.4	2400.0	4944.5	11529.2	22782.1
-10°	237.9	319.1	460.9	622.9	754.1	853.2	1112.5	2179.6	4474.8	10141.7	20321.9
-12.5°	232.6	309.1	441.3	600.2	735.9	838.1	1052.7	1899.0	3877.5	8380.2	17204.5
-15°	226.1	296.9	417.5	572.7	713.7	819.8	980.3	1560.1	3157.4	6260.2	13461.1
-17.5°	218.5	282.6	389.6	540.5	687.9	798.5	895.9	1207.5	2498.9	4907.9	10748.2
-20°	209.7	266.3	357.7	503.7	656.4	770.1	858.2	1103.5	2013.8	3881.8	7742.7



REPORT NUMBER: P699954 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-4R-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	199.9	247.9	328.6	464.2	611.5	734.2	828.8	987.7	1474.8	2744.4	5136.8
-25°	188.0	235.8	306.3	421.1	562.1	694.7	796.4	874.9	1142.5	2081.8	3803.8
-27.5°	173.7	222.7	282.0	374.1	508.2	647.6	753.2	837.1	994.8	1398.4	2525.3
-30°	158.2	208.5	255.8	329.4	452.6	584.9	703.5	796.7	868.3	1092.6	1746.9
-32.5°	141.7	193.1	235.8	298.8	393.8	518.0	645.9	743.0	822.3	913.8	1152.1
-35°	128.2	173.7	218.1	266.3	333.9	449.7	569.8	683.1	769.8	837.9	952.7
-37.5°	120.9	153.1	199.5	238.4	296.9	379.1	490.3	604.9	702.9	783.3	843.2
-40°	113.1	131.5	176.9	217.1	258.1	319.1	411.3	516.0	622.5	709.6	783.3
-42.5°	105.1	122.3	152.3	195.0	229.9	275.8	332.6	427.5	524.7	622.5	702.9
-45°	97.9	113.0	129.3	167.3	205.1	237.6	284.6	337.1	427.5	516.0	604.9
-47.5°	90.5	103.7	118.8	138.6	176.4	210.2	240.2	284.6	332.6	411.3	490.3
-50°	83.2	95.3	108.0	122.3	144.6	179.5	210.2	237.6	275.8	319.1	379.1
-52.5°	76.6	86.7	98.2	110.3	123.5	144.6	176.4	205.1	229.9	258.1	296.9
-55°	69.9	79.0	88.6	99.2	110.3	122.3	138.6	167.3	195.0	217.1	238.4
-57.5°	63.7	71.5	79.8	88.6	98.2	108.0	118.8	129.3	152.3	176.9	199.5
-60°	57.9	64.4	71.5	79.0	86.7	95.3	103.7	113.0	122.3	131.5	153.1
-62.5°	52.1	57.9	63.7	69.9	76.6	83.2	90.5	97.9	105.1	113.1	120.9
-65°	47.2	51.6	56.6	61.8	66.9	72.7	78.5	84.0	90.3	96.5	102.4
-67.5°	42.2	46.2	50.1	54.0	58.6	63.0	67.3	72.3	77.1	81.6	86.3
-70°	37.5	40.7	44.1	47.5	50.8	54.2	58.0	61.6	65.1	68.7	72.6
-72.5°	32.8	35.7	38.4	41.1	43.9	46.7	49.4	52.0	54.8	57.7	60.5
-75°	28.6	30.6	32.9	35.2	37.4	39.6	41.7	43.9	46.0	48.1	50.0
-77.5°	24.7	26.4	28.0	29.5	31.1	32.9	34.7	36.3	37.9	39.5	40.9
-80°	21.1	22.1	23.4	24.7	25.9	27.0	28.2	29.3	30.3	31.4	32.6
-82.5°	18.0	18.8	19.5	20.3	21.0	21.7	22.4	23.2	24.0	24.7	25.4
-85°	14.2	15.4	15.9	16.4	16.9	17.3	17.8	18.2	18.6	19.0	19.4
-87.5°	7.1	7.7	8.3	8.8	9.4	9.9	10.4	10.9	11.4	11.8	12.2
-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: P699954 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-4R-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°	12.6	13.0	13.3	13.7	14.0	14.2	14.5	14.7	14.9	15.0	15.2
85°	19.7	20.1	20.4	20.7	20.9	21.2	21.4	21.6	21.7	21.9	22.0
82.5°	26.1	26.7	27.3	27.9	28.4	28.8	29.2	29.6	29.9	30.2	30.4
80°	33.7	34.7	35.7	36.6	37.4	38.1	38.8	39.4	39.9	40.4	40.7
77.5°	42.4	43.8	45.1	46.4	47.5	48.5	49.5	50.3	51.0	51.6	52.1
75°	51.8	53.6	55.6	57.4	59.1	60.7	62.1	63.3	64.4	65.3	66.1
72.5°	63.1	65.6	68.1	70.7	73.1	75.3	77.2	79.0	80.5	81.8	82.9
70°	76.2	79.7	82.9	86.2	89.5	92.6	95.3	97.8	99.9	101.7	103.2
67.5°	91.3	96.0	100.5	104.6	108.8	113.0	116.7	120.0	122.9	125.4	127.4
65°	108.5	114.7	120.6	126.1	131.5	143.3	153.9	163.3	171.5	178.5	184.3
62.5°	128.2	141.7	158.2	173.7	188.0	199.9	209.7	218.5	226.1	232.6	237.9
60°	173.7	193.1	208.5	222.7	235.8	247.9	266.3	282.6	296.9	309.1	319.1
57.5°	218.1	235.8	255.8	282.0	306.3	328.6	357.7	389.6	417.5	441.3	460.9
55°	266.3	298.8	329.4	374.1	421.1	464.2	503.7	540.5	572.7	600.2	622.9
52.5°	333.9	393.8	452.6	508.2	562.1	611.5	656.4	687.9	713.7	735.9	754.1
50°	449.7	518.0	584.9	647.6	694.7	734.2	770.1	798.5	819.8	838.1	853.2
47.5°	569.8	645.9	703.5	753.2	796.4	828.8	858.2	895.9	980.3	1052.7	1112.5
45°	683.1	743.0	796.7	837.1	874.9	987.7	1103.5	1207.5	1560.1	1899.0	2179.6
42.5°	769.8	822.3	868.3	994.8	1142.5	1474.8	2013.8	2498.9	3157.4	3877.5	4474.8
40°	837.9	913.8	1092.6	1398.4	2081.8	2744.4	3881.8	4907.9	6260.2	8380.2	10141.7
37.5°	952.7	1152.1	1746.9	2525.3	3803.8	5136.8	7742.7	10748.2	13461.1	17204.5	20321.9
35°	1172.0	1923.2	2900.4	4524.5	6914.2	10792.7	15015.0	20293.4	24988.3	29296.2	32959.2
32.5°	1923.2	3078.2	4889.4	8436.9	12873.3	19344.1	25600.4	31717.8	37206.6	41581.6	44899.1
30°	2900.4	4889.4	8949.1	14299.4	21994.0	29488.2	36745.2	42749.8	47691.6	51573.9	53671.0
27.5°	4524.5	8436.9	14299.4	22886.4	31480.0	39801.0	46275.6	51703.4	54805.4	57526.3	59128.6
25°	6914.2	12873.3	21994.0	31480.0	40665.6	48072.7	53321.3	57039.8	59535.8	61604.5	63804.7
22.5°	10792.7	19344.1	29488.2	39801.0	48072.7	53868.3	57986.7	60779.9	63761.0	66820.1	70177.2
20°	15015.0	25600.4	36745.2	46275.6	53321.3	57986.7	61201.8	64958.8	68989.1	74434.2	79805.5
17.5°	20293.4	31717.8	42749.8	51703.4	57039.8	60779.9	64958.8	70029.9	76641.2	85835.8	94866.8
15°	24988.3	37206.6	47691.6	54805.4	59535.8	63761.0	68989.1	76641.2	87904.3	101616.8	117733.6
12.5°	29296.2	41581.6	51573.9	57526.3	61604.5	66820.1	74434.2	85835.8	101616.8	121648.1	146610.5
10°	32959.2	44899.1	53671.0	59128.6	63804.7	70177.2	79805.5	94866.8	117733.6	146610.5	183364.9
7.5°	35856.6	47530.4	55340.1	60406.2	65710.7	73609.5	86423.7	106444.8	134670.0	172534.2	259794.4
5°	37953.2	49438.7	56553.8	61338.5	67107.8	76139.9	91340.7	115376.6	149151.2	206956.3	371133.5
2.5°	39222.3	50595.6	57291.1	61906.2	67961.3	77692.3	94374.7	120933.3	158268.9	241544.6	468273.2
0°	39647.3	50983.3	57538.4	62096.9	68248.4	78215.8	95401.0	122821.3	161388.0	258224.0	503829.1
-2.5°	39222.3	50595.6	57291.1	61906.2	67961.3	77692.3	94374.7	120933.3	158268.9	241544.6	468273.2
-5°	37953.2	49438.7	56553.8	61338.5	67107.8	76139.9	91340.7	115376.6	149151.2	206956.3	371133.5
-7.5°	35856.6	47530.4	55340.1	60406.2	65710.7	73609.5	86423.7	106444.8	134670.0	172534.2	259794.4
-10°	32959.2	44899.1	53671.0	59128.6	63804.7	70177.2	79805.5	94866.8	117733.6	146610.5	183364.9
-12.5°	29296.2	41581.6	51573.9	57526.3	61604.5	66820.1	74434.2	85835.8	101616.8	121648.1	146610.5
-15°	24988.3	37206.6	47691.6	54805.4	59535.8	63761.0	68989.1	76641.2	87904.3	101616.8	117733.6
-17.5°	20293.4	31717.8	42749.8	51703.4	57039.8	60779.9	64958.8	70029.9	76641.2	85835.8	94866.8
-20°	15015.0	25600.4	36745.2	46275.6	53321.3	57986.7	61201.8	64958.8	68989.1	74434.2	79805.5



REPORT NUMBER: P699954 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-4R-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	10792.7	19344.1	29488.2	39801.0	48072.7	53868.3	57986.7	60779.9	63761.0	66820.1	70177.2
-25°	6914.2	12873.3	21994.0	31480.0	40665.6	48072.7	53321.3	57039.8	59535.8	61604.5	63804.7
-27.5°	4524.5	8436.9	14299.4	22886.4	31480.0	39801.0	46275.6	51703.4	54805.4	57526.3	59128.6
-30°	2900.4	4889.4	8949.1	14299.4	21994.0	29488.2	36745.2	42749.8	47691.6	51573.9	53671.0
-32.5°	1923.2	3078.2	4889.4	8436.9	12873.3	19344.1	25600.4	31717.8	37206.6	41581.6	44899.1
-35°	1172.0	1923.2	2900.4	4524.5	6914.2	10792.7	15015.0	20293.4	24988.3	29296.2	32959.2
-37.5°	952.7	1152.1	1746.9	2525.3	3803.8	5136.8	7742.7	10748.2	13461.1	17204.5	20321.9
-40°	837.9	913.8	1092.6	1398.4	2081.8	2744.4	3881.8	4907.9	6260.2	8380.2	10141.7
-42.5°	769.8	822.3	868.3	994.8	1142.5	1474.8	2013.8	2498.9	3157.4	3877.5	4474.8
-45°	683.1	743.0	796.7	837.1	874.9	987.7	1103.5	1207.5	1560.1	1899.0	2179.6
-47.5°	569.8	645.9	703.5	753.2	796.4	828.8	858.2	895.9	980.3	1052.7	1112.5
-50°	449.7	518.0	584.9	647.6	694.7	734.2	770.1	798.5	819.8	838.1	853.2
-52.5°	333.9	393.8	452.6	508.2	562.1	611.5	656.4	687.9	713.7	735.9	754.1
-55°	266.3	298.8	329.4	374.1	421.1	464.2	503.7	540.5	572.7	600.2	622.9
-57.5°	218.1	235.8	255.8	282.0	306.3	328.6	357.7	389.6	417.5	441.3	460.9
-60°	173.7	193.1	208.5	222.7	235.8	247.9	266.3	282.6	296.9	309.1	319.1
-62.5°	128.2	141.7	158.2	173.7	188.0	199.9	209.7	218.5	226.1	232.6	237.9
-65°	108.5	114.7	120.6	126.1	131.5	143.3	153.9	163.3	171.5	178.5	184.3
-67.5°	91.3	96.0	100.5	104.6	108.8	113.0	116.7	120.0	122.9	125.4	127.4
-70°	76.2	79.7	82.9	86.2	89.5	92.6	95.3	97.8	99.9	101.7	103.2
-72.5°	63.1	65.6	68.1	70.7	73.1	75.3	77.2	79.0	80.5	81.8	82.9
-75°	51.8	53.6	55.6	57.4	59.1	60.7	62.1	63.3	64.4	65.3	66.1
-77.5°	42.4	43.8	45.1	46.4	47.5	48.5	49.5	50.3	51.0	51.6	52.1
-80°	33.7	34.7	35.7	36.6	37.4	38.1	38.8	39.4	39.9	40.4	40.7
-82.5°	26.1	26.7	27.3	27.9	28.4	28.8	29.2	29.6	29.9	30.2	30.4
-85°	19.7	20.1	20.4	20.7	20.9	21.2	21.4	21.6	21.7	21.9	22.0
-87.5°	12.6	13.0	13.3	13.7	14.0	14.2	14.5	14.7	14.9	15.0	15.2
-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: P699954 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-4R-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°	15.3	15.3	15.4	15.4	15.4	15.3	15.3	15.2	15.0	14.9	14.7
85°	22.1	22.1	22.2	22.2	22.2	22.1	22.1	22.0	21.9	21.7	21.6
82.5°	30.6	30.7	30.8	30.8	30.8	30.7	30.6	30.4	30.2	29.9	29.6
80°	41.0	41.2	41.4	41.4	41.4	41.2	41.0	40.7	40.4	39.9	39.4
77.5°	52.5	52.8	52.9	53.0	52.9	52.8	52.5	52.1	51.6	51.0	50.3
75°	66.6	67.1	67.3	67.4	67.3	67.1	66.6	66.1	65.3	64.4	63.3
72.5°	83.7	84.3	84.7	84.8	84.7	84.3	83.7	82.9	81.8	80.5	79.0
70°	104.4	105.2	105.7	105.9	105.7	105.2	104.4	103.2	101.7	99.9	97.8
67.5°	129.0	130.1	130.8	131.0	130.8	130.1	129.0	127.4	125.4	122.9	120.0
65°	188.8	192.0	194.0	194.6	194.0	192.0	188.8	184.3	178.5	171.5	163.3
62.5°	242.1	245.1	246.9	247.5	246.9	245.1	242.1	237.9	232.6	226.1	218.5
60°	327.0	332.6	336.0	337.1	336.0	332.6	327.0	319.1	309.1	296.9	282.6
57.5°	476.2	487.2	493.8	496.0	493.8	487.2	476.2	460.9	441.3	417.5	389.6
55°	640.6	653.4	661.0	663.6	661.0	653.4	640.6	622.9	600.2	572.7	540.5
52.5°	768.4	778.7	784.8	786.9	784.8	778.7	768.4	754.1	735.9	713.7	687.9
50°	865.0	873.5	878.6	880.3	878.6	873.5	865.0	853.2	838.1	819.8	798.5
47.5°	1159.4	1193.2	1213.5	1220.3	1213.5	1193.2	1159.4	1112.5	1052.7	980.3	895.9
45°	2400.0	2558.6	2654.2	2686.2	2654.2	2558.6	2400.0	2179.6	1899.0	1560.1	1207.5
42.5°	4944.5	5282.9	5487.0	5555.3	5487.0	5282.9	4944.5	4474.8	3877.5	3157.4	2498.9
40°	11529.2	12529.9	13134.4	13336.5	13134.4	12529.9	11529.2	10141.7	8380.2	6260.2	4907.9
37.5°	22782.1	24559.1	25633.5	25993.0	25633.5	24559.1	22782.1	20321.9	17204.5	13461.1	10748.2
35°	35856.6	37953.2	39222.3	39647.3	39222.3	37953.2	35856.6	32959.2	29296.2	24988.3	20293.4
32.5°	47530.4	49438.7	50595.6	50983.3	50595.6	49438.7	47530.4	44899.1	41581.6	37206.6	31717.8
30°	55340.1	56553.8	57291.1	57538.4	57291.1	56553.8	55340.1	53671.0	51573.9	47691.6	42749.8
27.5°	60406.2	61338.5	61906.2	62096.9	61906.2	61338.5	60406.2	59128.6	57526.3	54805.4	51703.4
25°	65710.7	67107.8	67961.3	68248.4	67961.3	67107.8	65710.7	63804.7	61604.5	59535.8	57039.8
22.5°	73609.5	76139.9	77692.3	78215.8	77692.3	76139.9	73609.5	70177.2	66820.1	63761.0	60779.9
20°	86423.7	91340.7	94374.7	95401.0	94374.7	91340.7	86423.7	79805.5	74434.2	68989.1	64958.8
17.5°	106444.8	115376.6	120933.3	122821.3	120933.3	115376.6	106444.8	94866.8	85835.8	76641.2	70029.9
15°	134670.0	149151.2	158268.9	161388.0	158268.9	149151.2	134670.0	117733.6	101616.8	87904.3	76641.2
12.5°	172534.2	206956.3	241544.6	258224.0	241544.6	206956.3	172534.2	146610.5	121648.1	101616.8	85835.8
10°	259794.4	371133.5	468273.2	503829.1	468273.2	371133.5	259794.4	183364.9	146610.5	117733.6	94866.8
7.5°	434811.6	615150.8	697356.4	718612.5	697356.4	615150.8	434811.6	259794.4	172534.2	134670.0	106444.8
5°	615150.8	741448.8	802465.2	824267.4	802465.2	741448.8	615150.8	371133.5	206956.3	149151.2	115376.6
2.5°	697356.4	802465.2	872036.9	900998.6	872036.9	802465.2	697356.4	468273.2	241544.6	158268.9	120933.3
0°	718612.5	824267.4	900998.6	937392.9	900998.6	824267.4	718612.5	503829.1	258224.0	161388.0	122821.3
-2.5°	697356.4	802465.2	872036.9	900998.6	872036.9	802465.2	697356.4	468273.2	241544.6	158268.9	120933.3
-5°	615150.8	741448.8	802465.2	824267.4	802465.2	741448.8	615150.8	371133.5	206956.3	149151.2	115376.6
-7.5°	434811.6	615150.8	697356.4	718612.5	697356.4	615150.8	434811.6	259794.4	172534.2	134670.0	106444.8
-10°	259794.4	371133.5	468273.2	503829.1	468273.2	371133.5	259794.4	183364.9	146610.5	117733.6	94866.8
-12.5°	172534.2	206956.3	241544.6	258224.0	241544.6	206956.3	172534.2	146610.5	121648.1	101616.8	85835.8
-15°	134670.0	149151.2	158268.9	161388.0	158268.9	149151.2	134670.0	117733.6	101616.8	87904.3	76641.2
-17.5°	106444.8	115376.6	120933.3	122821.3	120933.3	115376.6	106444.8	94866.8	85835.8	76641.2	70029.9
-20°	86423.7	91340.7	94374.7	95401.0	94374.7	91340.7	86423.7	79805.5	74434.2	68989.1	64958.8



REPORT NUMBER: P699954 (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°	73609.5	76139.9	77692.3	78215.8	77692.3	76139.9	73609.5	70177.2	66820.1	63761.0	60779.9
-25°	65710.7	67107.8	67961.3	68248.4	67961.3	67107.8	65710.7	63804.7	61604.5	59535.8	57039.8
-27.5°	60406.2	61338.5	61906.2	62096.9	61906.2	61338.5	60406.2	59128.6	57526.3	54805.4	51703.4
-30°	55340.1	56553.8	57291.1	57538.4	57291.1	56553.8	55340.1	53671.0	51573.9	47691.6	42749.8
-32.5°	47530.4	49438.7	50595.6	50983.3	50595.6	49438.7	47530.4	44899.1	41581.6	37206.6	31717.8
-35°	35856.6	37953.2	39222.3	39647.3	39222.3	37953.2	35856.6	32959.2	29296.2	24988.3	20293.4
-37.5°	22782.1	24559.1	25633.5	25993.0	25633.5	24559.1	22782.1	20321.9	17204.5	13461.1	10748.2
-40°	11529.2	12529.9	13134.4	13336.5	13134.4	12529.9	11529.2	10141.7	8380.2	6260.2	4907.9
-42.5°	4944.5	5282.9	5487.0	5555.3	5487.0	5282.9	4944.5	4474.8	3877.5	3157.4	2498.9
-45°	2400.0	2558.6	2654.2	2686.2	2654.2	2558.6	2400.0	2179.6	1899.0	1560.1	1207.5
-47.5°	1159.4	1193.2	1213.5	1220.3	1213.5	1193.2	1159.4	1112.5	1052.7	980.3	895.9
-50°	865.0	873.5	878.6	880.3	878.6	873.5	865.0	853.2	838.1	819.8	798.5
-52.5°	768.4	778.7	784.8	786.9	784.8	778.7	768.4	754.1	735.9	713.7	687.9
-55°	640.6	653.4	661.0	663.6	661.0	653.4	640.6	622.9	600.2	572.7	540.5
-57.5°	476.2	487.2	493.8	496.0	493.8	487.2	476.2	460.9	441.3	417.5	389.6
-60°	327.0	332.6	336.0	337.1	336.0	332.6	327.0	319.1	309.1	296.9	282.6
-62.5°	242.1	245.1	246.9	247.5	246.9	245.1	242.1	237.9	232.6	226.1	218.5
-65°	188.8	192.0	194.0	194.6	194.0	192.0	188.8	184.3	178.5	171.5	163.3
-67.5°	129.0	130.1	130.8	131.0	130.8	130.1	129.0	127.4	125.4	122.9	120.0
-70°	104.4	105.2	105.7	105.9	105.7	105.2	104.4	103.2	101.7	99.9	97.8
-72.5°	83.7	84.3	84.7	84.8	84.7	84.3	83.7	82.9	81.8	80.5	79.0
-75°	66.6	67.1	67.3	67.4	67.3	67.1	66.6	66.1	65.3	64.4	63.3
-77.5°	52.5	52.8	52.9	53.0	52.9	52.8	52.5	52.1	51.6	51.0	50.3
-80°	41.0	41.2	41.4	41.4	41.4	41.2	41.0	40.7	40.4	39.9	39.4
-82.5°	30.6	30.7	30.8	30.8	30.8	30.7	30.6	30.4	30.2	29.9	29.6
-85°	22.1	22.1	22.2	22.2	22.2	22.1	22.1	22.0	21.9	21.7	21.6
-87.5°	15.3	15.3	15.4	15.4	15.4	15.3	15.3	15.2	15.0	14.9	14.7
-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: P699954 (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°
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°	14.5	14.2	14.0	13.7	13.3	13.0	12.6	12.2	11.8	11.4	10.9
85°	21.4	21.2	20.9	20.7	20.4	20.1	19.7	19.4	19.0	18.6	18.2
82.5°	29.2	28.8	28.4	27.9	27.3	26.7	26.1	25.4	24.7	24.0	23.2
80°	38.8	38.1	37.4	36.6	35.7	34.7	33.7	32.6	31.4	30.3	29.3
77.5°	49.5	48.5	47.5	46.4	45.1	43.8	42.4	40.9	39.5	37.9	36.3
75°	62.1	60.7	59.1	57.4	55.6	53.6	51.8	50.0	48.1	46.0	43.9
72.5°	77.2	75.3	73.1	70.7	68.1	65.6	63.1	60.5	57.7	54.8	52.0
70°	95.3	92.6	89.5	86.2	82.9	79.7	76.2	72.6	68.7	65.1	61.6
67.5°	116.7	113.0	108.8	104.6	100.5	96.0	91.3	86.3	81.6	77.1	72.3
65°	153.9	143.3	131.5	126.1	120.6	114.7	108.5	102.4	96.5	90.3	84.0
62.5°	209.7	199.9	188.0	173.7	158.2	141.7	128.2	120.9	113.1	105.1	97.9
60°	266.3	247.9	235.8	222.7	208.5	193.1	173.7	153.1	131.5	122.3	113.0
57.5°	357.7	328.6	306.3	282.0	255.8	235.8	218.1	199.5	176.9	152.3	129.3
55°	503.7	464.2	421.1	374.1	329.4	298.8	266.3	238.4	217.1	195.0	167.3
52.5°	656.4	611.5	562.1	508.2	452.6	393.8	333.9	296.9	258.1	229.9	205.1
50°	770.1	734.2	694.7	647.6	584.9	518.0	449.7	379.1	319.1	275.8	237.6
47.5°	858.2	828.8	796.4	753.2	703.5	645.9	569.8	490.3	411.3	332.6	284.6
45°	1103.5	987.7	874.9	837.1	796.7	743.0	683.1	604.9	516.0	427.5	337.1
42.5°	2013.8	1474.8	1142.5	994.8	868.3	822.3	769.8	702.9	622.5	524.7	427.5
40°	3881.8	2744.4	2081.8	1398.4	1092.6	913.8	837.9	783.3	709.6	622.5	516.0
37.5°	7742.7	5136.8	3803.8	2525.3	1746.9	1152.1	952.7	843.2	783.3	702.9	604.9
35°	15015.0	10792.7	6914.2	4524.5	2900.4	1923.2	1172.0	952.7	837.9	769.8	683.1
32.5°	25600.4	19344.1	12873.3	8436.9	4889.4	3078.2	1923.2	1152.1	913.8	822.3	743.0
30°	36745.2	29488.2	21994.0	14299.4	8949.1	4889.4	2900.4	1746.9	1092.6	868.3	796.7
27.5°	46275.6	39801.0	31480.0	22886.4	14299.4	8436.9	4524.5	2525.3	1398.4	994.8	837.1
25°	53321.3	48072.7	40665.6	31480.0	21994.0	12873.3	6914.2	3803.8	2081.8	1142.5	874.9
22.5°	57986.7	53868.3	48072.7	39801.0	29488.2	19344.1	10792.7	5136.8	2744.4	1474.8	987.7
20°	61201.8	57986.7	53321.3	46275.6	36745.2	25600.4	15015.0	7742.7	3881.8	2013.8	1103.5
17.5°	64958.8	60779.9	57039.8	51703.4	42749.8	31717.8	20293.4	10748.2	4907.9	2498.9	1207.5
15°	68989.1	63761.0	59535.8	54805.4	47691.6	37206.6	24988.3	13461.1	6260.2	3157.4	1560.1
12.5°	74434.2	66820.1	61604.5	57526.3	51573.9	41581.6	29296.2	17204.5	8380.2	3877.5	1899.0
10°	79805.5	70177.2	63804.7	59128.6	53671.0	44899.1	32959.2	20321.9	10141.7	4474.8	2179.6
7.5°	86423.7	73609.5	65710.7	60406.2	55340.1	47530.4	35856.6	22782.1	11529.2	4944.5	2400.0
5°	91340.7	76139.9	67107.8	61338.5	56553.8	49438.7	37953.2	24559.1	12529.9	5282.9	2558.6
2.5°	94374.7	77692.3	67961.3	61906.2	57291.1	50595.6	39222.3	25633.5	13134.4	5487.0	2654.2
0°	95401.0	78215.8	68248.4	62096.9	57538.4	50983.3	39647.3	25993.0	13336.5	5555.3	2686.2
-2.5°	94374.7	77692.3	67961.3	61906.2	57291.1	50595.6	39222.3	25633.5	13134.4	5487.0	2654.2
-5°	91340.7	76139.9	67107.8	61338.5	56553.8	49438.7	37953.2	24559.1	12529.9	5282.9	2558.6
-7.5°	86423.7	73609.5	65710.7	60406.2	55340.1	47530.4	35856.6	22782.1	11529.2	4944.5	2400.0
-10°	79805.5	70177.2	63804.7	59128.6	53671.0	44899.1	32959.2	20321.9	10141.7	4474.8	2179.6
-12.5°	74434.2	66820.1	61604.5	57526.3	51573.9	41581.6	29296.2	17204.5	8380.2	3877.5	1899.0
-15°	68989.1	63761.0	59535.8	54805.4	47691.6	37206.6	24988.3	13461.1	6260.2	3157.4	1560.1
-17.5°	64958.8	60779.9	57039.8	51703.4	42749.8	31717.8	20293.4	10748.2	4907.9	2498.9	1207.5
-20°	61201.8	57986.7	53321.3	46275.6	36745.2	25600.4	15015.0	7742.7	3881.8	2013.8	1103.5



REPORT NUMBER: P699954 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-4R-S

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	57986.7	53868.3	48072.7	39801.0	29488.2	19344.1	10792.7	5136.8	2744.4	1474.8	987.7
-25°	53321.3	48072.7	40665.6	31480.0	21994.0	12873.3	6914.2	3803.8	2081.8	1142.5	874.9
-27.5°	46275.6	39801.0	31480.0	22886.4	14299.4	8436.9	4524.5	2525.3	1398.4	994.8	837.1
-30°	36745.2	29488.2	21994.0	14299.4	8949.1	4889.4	2900.4	1746.9	1092.6	868.3	796.7
-32.5°	25600.4	19344.1	12873.3	8436.9	4889.4	3078.2	1923.2	1152.1	913.8	822.3	743.0
-35°	15015.0	10792.7	6914.2	4524.5	2900.4	1923.2	1172.0	952.7	837.9	769.8	683.1
-37.5°	7742.7	5136.8	3803.8	2525.3	1746.9	1152.1	952.7	843.2	783.3	702.9	604.9
-40°	3881.8	2744.4	2081.8	1398.4	1092.6	913.8	837.9	783.3	709.6	622.5	516.0
-42.5°	2013.8	1474.8	1142.5	994.8	868.3	822.3	769.8	702.9	622.5	524.7	427.5
-45°	1103.5	987.7	874.9	837.1	796.7	743.0	683.1	604.9	516.0	427.5	337.1
-47.5°	858.2	828.8	796.4	753.2	703.5	645.9	569.8	490.3	411.3	332.6	284.6
-50°	770.1	734.2	694.7	647.6	584.9	518.0	449.7	379.1	319.1	275.8	237.6
-52.5°	656.4	611.5	562.1	508.2	452.6	393.8	333.9	296.9	258.1	229.9	205.1
-55°	503.7	464.2	421.1	374.1	329.4	298.8	266.3	238.4	217.1	195.0	167.3
-57.5°	357.7	328.6	306.3	282.0	255.8	235.8	218.1	199.5	176.9	152.3	129.3
-60°	266.3	247.9	235.8	222.7	208.5	193.1	173.7	153.1	131.5	122.3	113.0
-62.5°	209.7	199.9	188.0	173.7	158.2	141.7	128.2	120.9	113.1	105.1	97.9
-65°	153.9	143.3	131.5	126.1	120.6	114.7	108.5	102.4	96.5	90.3	84.0
-67.5°	116.7	113.0	108.8	104.6	100.5	96.0	91.3	86.3	81.6	77.1	72.3
-70°	95.3	92.6	89.5	86.2	82.9	79.7	76.2	72.6	68.7	65.1	61.6
-72.5°	77.2	75.3	73.1	70.7	68.1	65.6	63.1	60.5	57.7	54.8	52.0
-75°	62.1	60.7	59.1	57.4	55.6	53.6	51.8	50.0	48.1	46.0	43.9
-77.5°	49.5	48.5	47.5	46.4	45.1	43.8	42.4	40.9	39.5	37.9	36.3
-80°	38.8	38.1	37.4	36.6	35.7	34.7	33.7	32.6	31.4	30.3	29.3
-82.5°	29.2	28.8	28.4	27.9	27.3	26.7	26.1	25.4	24.7	24.0	23.2
-85°	21.4	21.2	20.9	20.7	20.4	20.1	19.7	19.4	19.0	18.6	18.2
-87.5°	14.5	14.2	14.0	13.7	13.3	13.0	12.6	12.2	11.8	11.4	10.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	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°	10.4	9.9	9.4	8.8	8.3	7.7	7.1	6.5	5.9	5.3	4.6
85°	17.8	17.3	16.9	16.4	15.9	15.4	14.2	13.0	11.8	10.5	9.3
82.5°	22.4	21.7	21.0	20.3	19.5	18.8	18.0	17.2	16.4	15.6	13.9
80°	28.2	27.0	25.9	24.7	23.4	22.1	21.1	20.0	19.0	17.9	16.7
77.5°	34.7	32.9	31.1	29.5	28.0	26.4	24.7	23.1	21.5	20.1	18.8
75°	41.7	39.6	37.4	35.2	32.9	30.6	28.6	26.6	24.6	22.5	20.7
72.5°	49.4	46.7	43.9	41.1	38.4	35.7	32.8	30.1	27.7	25.3	22.8
70°	58.0	54.2	50.8	47.5	44.1	40.7	37.5	34.2	30.9	28.1	25.3
67.5°	67.3	63.0	58.6	54.0	50.1	46.2	42.2	38.5	34.7	30.9	27.7
65°	78.5	72.7	66.9	61.8	56.6	51.6	47.2	42.7	38.5	34.2	30.1
62.5°	90.5	83.2	76.6	69.9	63.7	57.9	52.1	47.2	42.2	37.5	32.8
60°	103.7	95.3	86.7	79.0	71.5	64.4	57.9	51.6	46.2	40.7	35.7
57.5°	118.8	108.0	98.2	88.6	79.8	71.5	63.7	56.6	50.1	44.1	38.4
55°	138.6	122.3	110.3	99.2	88.6	79.0	69.9	61.8	54.0	47.5	41.1
52.5°	176.4	144.6	123.5	110.3	98.2	86.7	76.6	66.9	58.6	50.8	43.9
50°	210.2	179.5	144.6	122.3	108.0	95.3	83.2	72.7	63.0	54.2	46.7
47.5°	240.2	210.2	176.4	138.6	118.8	103.7	90.5	78.5	67.3	58.0	49.4
45°	284.6	237.6	205.1	167.3	129.3	113.0	97.9	84.0	72.3	61.6	52.0
42.5°	332.6	275.8	229.9	195.0	152.3	122.3	105.1	90.3	77.1	65.1	54.8
40°	411.3	319.1	258.1	217.1	176.9	131.5	113.1	96.5	81.6	68.7	57.7
37.5°	490.3	379.1	296.9	238.4	199.5	153.1	120.9	102.4	86.3	72.6	60.5
35°	569.8	449.7	333.9	266.3	218.1	173.7	128.2	108.5	91.3	76.2	63.1
32.5°	645.9	518.0	393.8	298.8	235.8	193.1	141.7	114.7	96.0	79.7	65.6
30°	703.5	584.9	452.6	329.4	255.8	208.5	158.2	120.6	100.5	82.9	68.1
27.5°	753.2	647.6	508.2	374.1	282.0	222.7	173.7	126.1	104.6	86.2	70.7
25°	796.4	694.7	562.1	421.1	306.3	235.8	188.0	131.5	108.8	89.5	73.1
22.5°	828.8	734.2	611.5	464.2	328.6	247.9	199.9	143.3	113.0	92.6	75.3
20°	858.2	770.1	656.4	503.7	357.7	266.3	209.7	153.9	116.7	95.3	77.2
17.5°	895.9	798.5	687.9	540.5	389.6	282.6	218.5	163.3	120.0	97.8	79.0
15°	980.3	819.8	713.7	572.7	417.5	296.9	226.1	171.5	122.9	99.9	80.5
12.5°	1052.7	838.1	735.9	600.2	441.3	309.1	232.6	178.5	125.4	101.7	81.8
10°	1112.5	853.2	754.1	622.9	460.9	319.1	237.9	184.3	127.4	103.2	82.9
7.5°	1159.4	865.0	768.4	640.6	476.2	327.0	242.1	188.8	129.0	104.4	83.7
5°	1193.2	873.5	778.7	653.4	487.2	332.6	245.1	192.0	130.1	105.2	84.3
2.5°	1213.5	878.6	784.8	661.0	493.8	336.0	246.9	194.0	130.8	105.7	84.7
0°	1220.3	880.3	786.9	663.6	496.0	337.1	247.5	194.6	131.0	105.9	84.8
-2.5°	1213.5	878.6	784.8	661.0	493.8	336.0	246.9	194.0	130.8	105.7	84.7
-5°	1193.2	873.5	778.7	653.4	487.2	332.6	245.1	192.0	130.1	105.2	84.3
-7.5°	1159.4	865.0	768.4	640.6	476.2	327.0	242.1	188.8	129.0	104.4	83.7
-10°	1112.5	853.2	754.1	622.9	460.9	319.1	237.9	184.3	127.4	103.2	82.9
-12.5°	1052.7	838.1	735.9	600.2	441.3	309.1	232.6	178.5	125.4	101.7	81.8
-15°	980.3	819.8	713.7	572.7	417.5	296.9	226.1	171.5	122.9	99.9	80.5
-17.5°	895.9	798.5	687.9	540.5	389.6	282.6	218.5	163.3	120.0	97.8	79.0
-20°	858.2	770.1	656.4	503.7	357.7	266.3	209.7	153.9	116.7	95.3	77.2



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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°	828.8	734.2	611.5	464.2	328.6	247.9	199.9	143.3	113.0	92.6	75.3
-25°	796.4	694.7	562.1	421.1	306.3	235.8	188.0	131.5	108.8	89.5	73.1
-27.5°	753.2	647.6	508.2	374.1	282.0	222.7	173.7	126.1	104.6	86.2	70.7
-30°	703.5	584.9	452.6	329.4	255.8	208.5	158.2	120.6	100.5	82.9	68.1
-32.5°	645.9	518.0	393.8	298.8	235.8	193.1	141.7	114.7	96.0	79.7	65.6
-35°	569.8	449.7	333.9	266.3	218.1	173.7	128.2	108.5	91.3	76.2	63.1
-37.5°	490.3	379.1	296.9	238.4	199.5	153.1	120.9	102.4	86.3	72.6	60.5
-40°	411.3	319.1	258.1	217.1	176.9	131.5	113.1	96.5	81.6	68.7	57.7
-42.5°	332.6	275.8	229.9	195.0	152.3	122.3	105.1	90.3	77.1	65.1	54.8
-45°	284.6	237.6	205.1	167.3	129.3	113.0	97.9	84.0	72.3	61.6	52.0
-47.5°	240.2	210.2	176.4	138.6	118.8	103.7	90.5	78.5	67.3	58.0	49.4
-50°	210.2	179.5	144.6	122.3	108.0	95.3	83.2	72.7	63.0	54.2	46.7
-52.5°	176.4	144.6	123.5	110.3	98.2	86.7	76.6	66.9	58.6	50.8	43.9
-55°	138.6	122.3	110.3	99.2	88.6	79.0	69.9	61.8	54.0	47.5	41.1
-57.5°	118.8	108.0	98.2	88.6	79.8	71.5	63.7	56.6	50.1	44.1	38.4
-60°	103.7	95.3	86.7	79.0	71.5	64.4	57.9	51.6	46.2	40.7	35.7
-62.5°	90.5	83.2	76.6	69.9	63.7	57.9	52.1	47.2	42.2	37.5	32.8
-65°	78.5	72.7	66.9	61.8	56.6	51.6	47.2	42.7	38.5	34.2	30.1
-67.5°	67.3	63.0	58.6	54.0	50.1	46.2	42.2	38.5	34.7	30.9	27.7
-70°	58.0	54.2	50.8	47.5	44.1	40.7	37.5	34.2	30.9	28.1	25.3
-72.5°	49.4	46.7	43.9	41.1	38.4	35.7	32.8	30.1	27.7	25.3	22.8
-75°	41.7	39.6	37.4	35.2	32.9	30.6	28.6	26.6	24.6	22.5	20.7
-77.5°	34.7	32.9	31.1	29.5	28.0	26.4	24.7	23.1	21.5	20.1	18.8
-80°	28.2	27.0	25.9	24.7	23.4	22.1	21.1	20.0	19.0	17.9	16.7
-82.5°	22.4	21.7	21.0	20.3	19.5	18.8	18.0	17.2	16.4	15.6	13.9
-85°	17.8	17.3	16.9	16.4	15.9	15.4	14.2	13.0	11.8	10.5	9.3
-87.5°	10.4	9.9	9.4	8.8	8.3	7.7	7.1	6.5	5.9	5.3	4.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	3.3	2.7	2.0	1.3	0.7	0.0
85°	8.0	6.7	5.3	4.0	2.7	1.3	0.0
82.5°	11.9	10.0	8.0	6.0	4.0	2.0	0.0
80°	15.6	13.3	10.6	8.0	5.3	2.7	0.0
77.5°	17.3	15.9	13.3	10.0	6.7	3.3	0.0
75°	19.0	17.3	15.6	11.9	8.0	4.0	0.0
72.5°	20.7	18.8	16.7	13.9	9.3	4.6	0.0
70°	22.5	20.1	17.9	15.6	10.5	5.3	0.0
67.5°	24.6	21.5	19.0	16.4	11.8	5.9	0.0
65°	26.6	23.1	20.0	17.2	13.0	6.5	0.0
62.5°	28.6	24.7	21.1	18.0	14.2	7.1	0.0
60°	30.6	26.4	22.1	18.8	15.4	7.7	0.0
57.5°	32.9	28.0	23.4	19.5	15.9	8.3	0.0
55°	35.2	29.5	24.7	20.3	16.4	8.8	0.0
52.5°	37.4	31.1	25.9	21.0	16.9	9.4	0.0
50°	39.6	32.9	27.0	21.7	17.3	9.9	0.0
47.5°	41.7	34.7	28.2	22.4	17.8	10.4	0.0
45°	43.9	36.3	29.3	23.2	18.2	10.9	0.0
42.5°	46.0	37.9	30.3	24.0	18.6	11.4	0.0
40°	48.1	39.5	31.4	24.7	19.0	11.8	0.0
37.5°	50.0	40.9	32.6	25.4	19.4	12.2	0.0
35°	51.8	42.4	33.7	26.1	19.7	12.6	0.0
32.5°	53.6	43.8	34.7	26.7	20.1	13.0	0.0
30°	55.6	45.1	35.7	27.3	20.4	13.3	0.0
27.5°	57.4	46.4	36.6	27.9	20.7	13.7	0.0
25°	59.1	47.5	37.4	28.4	20.9	14.0	0.0
22.5°	60.7	48.5	38.1	28.8	21.2	14.2	0.0
20°	62.1	49.5	38.8	29.2	21.4	14.5	0.0
17.5°	63.3	50.3	39.4	29.6	21.6	14.7	0.0
15°	64.4	51.0	39.9	29.9	21.7	14.9	0.0
12.5°	65.3	51.6	40.4	30.2	21.9	15.0	0.0
10°	66.1	52.1	40.7	30.4	22.0	15.2	0.0
7.5°	66.6	52.5	41.0	30.6	22.1	15.3	0.0
5°	67.1	52.8	41.2	30.7	22.1	15.3	0.0
2.5°	67.3	52.9	41.4	30.8	22.2	15.4	0.0
0°	67.4	53.0	41.4	30.8	22.2	15.4	0.0
-2.5°	67.3	52.9	41.4	30.8	22.2	15.4	0.0
-5°	67.1	52.8	41.2	30.7	22.1	15.3	0.0
-7.5°	66.6	52.5	41.0	30.6	22.1	15.3	0.0
-10°	66.1	52.1	40.7	30.4	22.0	15.2	0.0
-12.5°	65.3	51.6	40.4	30.2	21.9	15.0	0.0
-15°	64.4	51.0	39.9	29.9	21.7	14.9	0.0
-17.5°	63.3	50.3	39.4	29.6	21.6	14.7	0.0
-20°	62.1	49.5	38.8	29.2	21.4	14.5	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	60.7	48.5	38.1	28.8	21.2	14.2	0.0
-25°	59.1	47.5	37.4	28.4	20.9	14.0	0.0
-27.5°	57.4	46.4	36.6	27.9	20.7	13.7	0.0
-30°	55.6	45.1	35.7	27.3	20.4	13.3	0.0
-32.5°	53.6	43.8	34.7	26.7	20.1	13.0	0.0
-35°	51.8	42.4	33.7	26.1	19.7	12.6	0.0
-37.5°	50.0	40.9	32.6	25.4	19.4	12.2	0.0
-40°	48.1	39.5	31.4	24.7	19.0	11.8	0.0
-42.5°	46.0	37.9	30.3	24.0	18.6	11.4	0.0
-45°	43.9	36.3	29.3	23.2	18.2	10.9	0.0
-47.5°	41.7	34.7	28.2	22.4	17.8	10.4	0.0
-50°	39.6	32.9	27.0	21.7	17.3	9.9	0.0
-52.5°	37.4	31.1	25.9	21.0	16.9	9.4	0.0
-55°	35.2	29.5	24.7	20.3	16.4	8.8	0.0
-57.5°	32.9	28.0	23.4	19.5	15.9	8.3	0.0
-60°	30.6	26.4	22.1	18.8	15.4	7.7	0.0
-62.5°	28.6	24.7	21.1	18.0	14.2	7.1	0.0
-65°	26.6	23.1	20.0	17.2	13.0	6.5	0.0
-67.5°	24.6	21.5	19.0	16.4	11.8	5.9	0.0
-70°	22.5	20.1	17.9	15.6	10.5	5.3	0.0
-72.5°	20.7	18.8	16.7	13.9	9.3	4.6	0.0
-75°	19.0	17.3	15.6	11.9	8.0	4.0	0.0
-77.5°	17.3	15.9	13.3	10.0	6.7	3.3	0.0
-80°	15.6	13.3	10.6	8.0	5.3	2.7	0.0
-82.5°	11.9	10.0	8.0	6.0	4.0	2.0	0.0
-85°	8.0	6.7	5.3	4.0	2.7	1.3	0.0
-87.5°	4.0	3.3	2.7	2.0	1.3	0.7	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)