

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: P699876 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 8/10/2023

Test Information

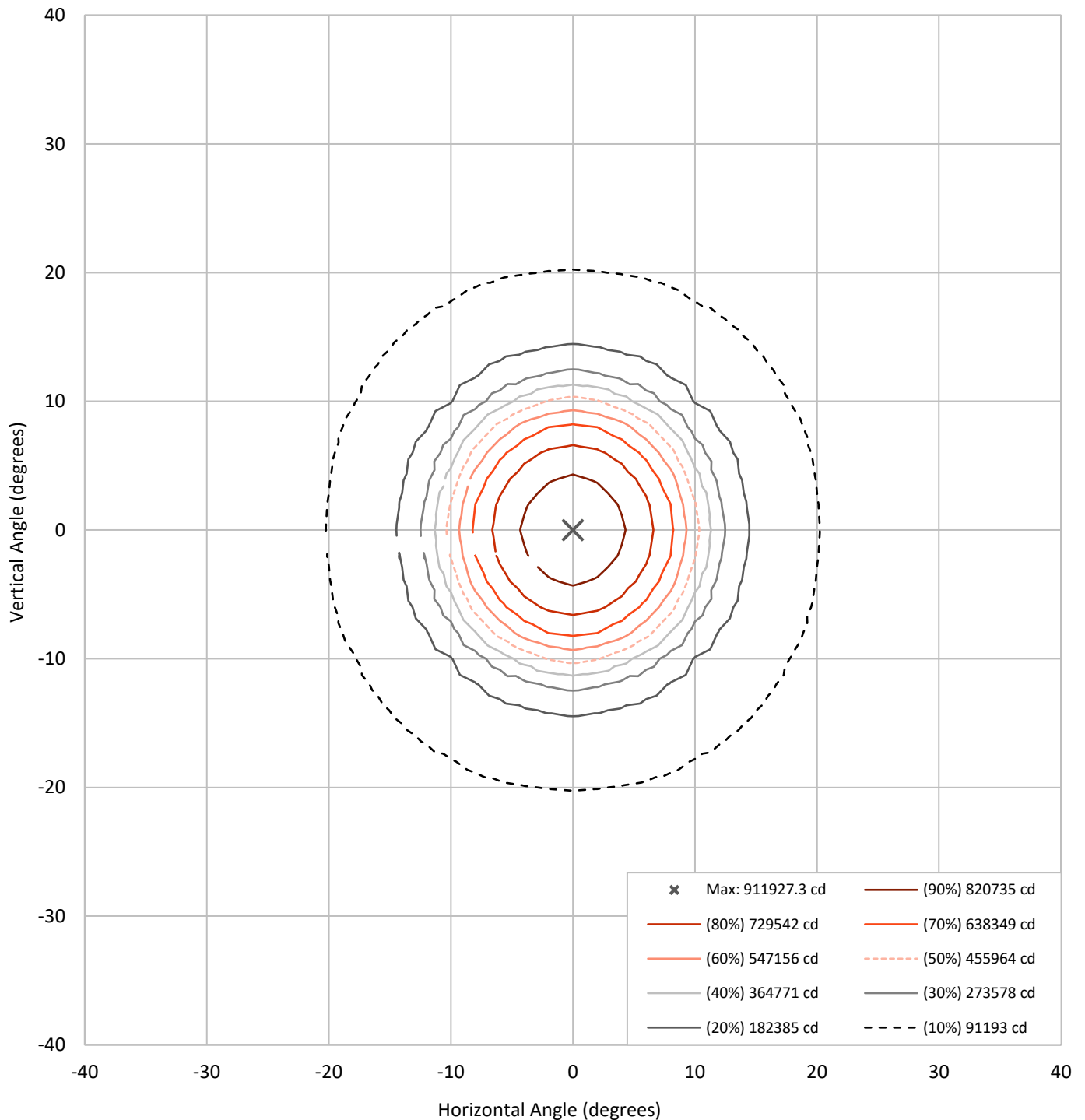
Test Method: LM-79-08
Report Number: P699876 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-17)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200L-40-80-4R-S
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:	177452.2 lumens	Max Intensity:	911927.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	146.2 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:	68123.8 lumens	Field Lumens:	120241.3 lumens
Beam Efficiency:	38.4%	Field Efficiency:	67.8%
Input Watts (W):	1214.1		
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





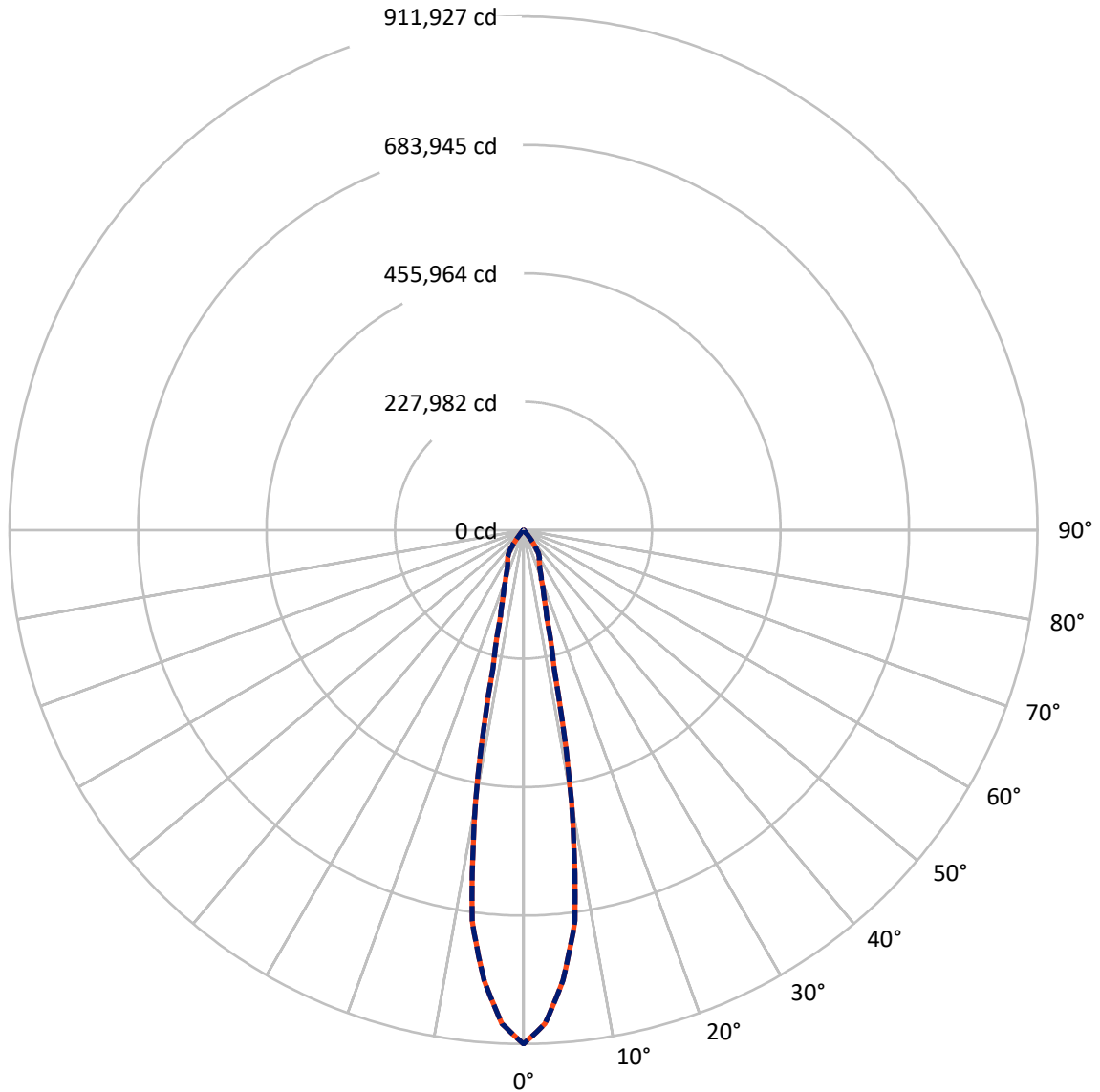
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Lumen Table

90	0.2	1.3		3.0		4.7		5.4		4.7		3.0		1.3		0.2
80	0.2	1.3		3.0		4.7		5.4		4.7		3.0		1.3		0.2
70	0.6	0.5	1.1	1.8	2.8	4.0	5.1	5.8	5.8	5.1	4.0	2.8	1.8	1.1	0.5	0.6
60		0.8	1.7	3.6	7.0	11.7	16.1	18.5	18.5	16.1	11.7	7.0	3.6	1.7	0.8	
50	0.9	1.1	2.9	7.7	16.1	29.6	67.9	113.8	113.8	67.9	29.6	16.1	7.7	2.9	1.1	0.9
40		1.5	4.9	14.0	43.3	257.1	728.2	1065.0	1065.0	728.2	257.1	43.3	14.0	4.9	1.5	
30	1.2	1.9	7.6	23.4	234.9	1036.8	1684.5	2036.4	2036.4	1684.5	1036.8	234.9	23.4	7.6	1.9	1.2
20		2.3	9.7	51.1	625.9	1582.9	2643.5	5085.7	5085.7	2643.5	1582.9	625.9	51.1	9.7	2.3	
10	1.3	2.5	10.8	83.6	886.3	1857.8	4952.0	19094.4	19094.4	4952.0	1857.8	886.3	83.6	10.8	2.5	1.3
0		2.5	10.8	83.6	886.3	1857.8	4952.0	19094.4	19094.4	4952.0	1857.8	886.3	83.6	10.8	2.5	
-10	1.2	2.3	9.7	51.1	625.9	1582.9	2643.5	5085.7	5085.7	2643.5	1582.9	625.9	51.1	9.7	2.3	1.2
-20		1.9	7.6	23.4	234.9	1036.8	1684.5	2036.4	2036.4	1684.5	1036.8	234.9	23.4	7.6	1.9	
-30	0.9	1.5	4.9	14.0	43.3	257.1	728.2	1065.0	1065.0	728.2	257.1	43.3	14.0	4.9	1.5	0.9
-40		1.1	2.9	7.7	16.1	29.6	67.9	113.8	113.8	67.9	29.6	16.1	7.7	2.9	1.1	
-50	0.6	0.8	1.7	3.6	7.0	11.7	16.1	18.5	18.5	16.1	11.7	7.0	3.6	1.7	0.8	0.6
-60		0.5	1.1	1.8	2.8	4.0	5.1	5.8	5.8	5.1	4.0	2.8	1.8	1.1	0.5	
-70	0.2	1.3		3.0		4.7		5.4		4.7		3.0		1.3		0.2
-80		1.3		3.0		4.7		5.4		4.7		3.0		1.3		
-90	0.2	1.3		3.0		4.7		5.4		4.7		3.0		1.3		0.2

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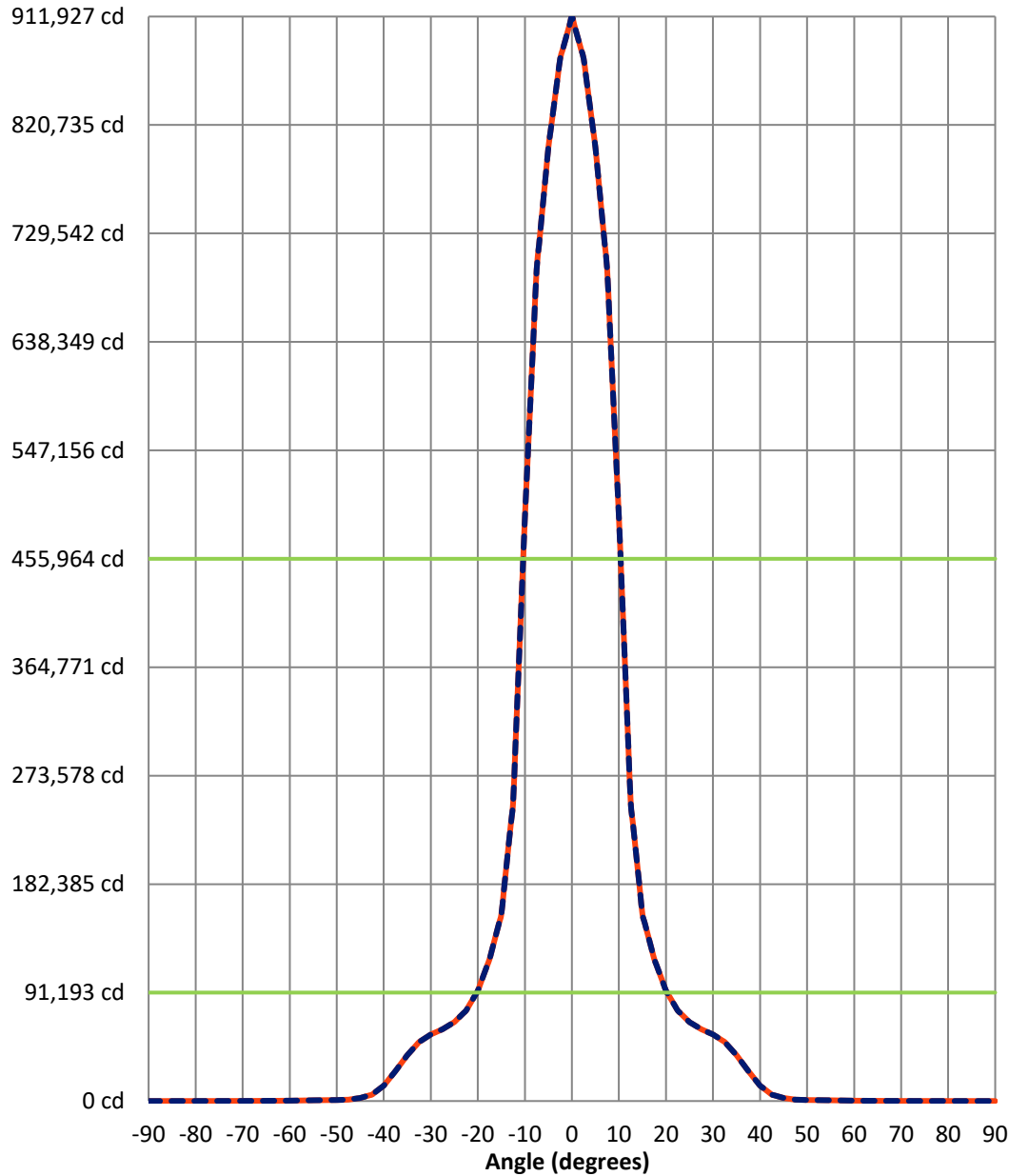
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 20.7°
 V Angle: 20.7°
 Lumens: 68123.8
 Efficiency: 38.4%

Field:
 H Angle: 40.5°
 V Angle: 40.5°
 Lumens: 120241.3
 Efficiency: 67.8%

Spill:
 Lumens: 57210.9
 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	2.6	3.2	3.9	4.5	5.1	5.7	6.3
85°	0.0	1.3	2.6	3.9	5.2	6.5	7.8	9.0	10.2	11.5	12.7
82.5°	0.0	2.0	3.9	5.9	7.8	9.7	11.6	13.5	15.2	16.0	16.7
80°	0.0	2.6	5.2	7.8	10.4	12.9	15.2	16.3	17.4	18.5	19.5
77.5°	0.0	3.2	6.5	9.7	12.9	15.5	16.9	18.3	19.6	20.9	22.4
75°	0.0	3.9	7.8	11.6	15.2	16.9	18.5	20.2	21.9	23.9	25.9
72.5°	0.0	4.5	9.0	13.5	16.3	18.3	20.2	22.2	24.6	27.0	29.3
70°	0.0	5.1	10.2	15.2	17.4	19.6	21.9	24.6	27.4	30.1	33.3
67.5°	0.0	5.7	11.5	16.0	18.5	20.9	23.9	27.0	30.1	33.8	37.4
65°	0.0	6.3	12.7	16.7	19.5	22.4	25.9	29.3	33.3	37.4	41.6
62.5°	0.0	6.9	13.8	17.5	20.5	24.1	27.9	32.0	36.5	41.1	45.9
60°	0.0	7.5	15.0	18.3	21.5	25.7	29.8	34.7	39.7	44.9	50.2
57.5°	0.0	8.1	15.5	19.0	22.8	27.2	32.0	37.4	42.9	48.7	55.0
55°	0.0	8.6	16.0	19.7	24.0	28.8	34.3	40.0	46.2	52.5	60.1
52.5°	0.0	9.1	16.4	20.4	25.2	30.3	36.4	42.8	49.3	57.0	65.1
50°	0.0	9.6	16.9	21.1	26.3	32.0	38.6	45.4	52.6	61.3	70.8
47.5°	0.0	10.1	17.3	21.8	27.4	33.7	40.6	48.0	56.3	65.5	76.3
45°	0.0	10.6	17.7	22.6	28.5	35.4	42.7	50.5	59.9	70.3	81.7
42.5°	0.0	11.1	18.1	23.4	29.5	36.9	44.8	53.2	63.4	75.0	87.9
40°	0.0	11.5	18.5	24.1	30.6	38.4	46.7	56.1	66.9	79.4	93.9
37.5°	0.0	11.9	18.9	24.8	31.7	39.8	48.6	58.8	70.6	83.9	99.7
35°	0.0	12.3	19.2	25.4	32.8	41.3	50.3	61.4	74.2	88.8	105.6
32.5°	0.0	12.6	19.5	26.0	33.8	42.6	52.1	63.9	77.5	93.5	111.7
30°	0.0	13.0	19.8	26.6	34.7	43.9	54.1	66.2	80.7	97.8	117.4
27.5°	0.0	13.3	20.1	27.1	35.6	45.1	55.9	68.8	83.8	101.8	122.7
25°	0.0	13.6	20.4	27.6	36.4	46.2	57.5	71.1	87.1	106.0	127.9
22.5°	0.0	13.9	20.6	28.1	37.1	47.2	59.0	73.2	90.1	110.0	139.3
20°	0.0	14.1	20.8	28.5	37.8	48.1	60.4	75.2	92.8	113.6	149.7
17.5°	0.0	14.3	21.0	28.8	38.4	48.9	61.6	76.9	95.2	116.8	158.8
15°	0.0	14.5	21.1	29.1	38.9	49.6	62.7	78.3	97.3	119.6	166.8
12.5°	0.0	14.6	21.3	29.4	39.3	50.2	63.5	79.6	99.0	121.9	173.7
10°	0.0	14.8	21.4	29.6	39.7	50.6	64.3	80.6	100.5	123.9	179.3
7.5°	0.0	14.9	21.5	29.8	39.9	51.0	64.9	81.5	101.6	125.4	183.6
5°	0.0	14.9	21.5	29.9	40.1	51.3	65.3	82.0	102.4	126.5	186.8
2.5°	0.0	15.0	21.6	30.0	40.3	51.4	65.5	82.4	102.9	127.2	188.7
0°	0.0	15.0	21.6	30.0	40.3	51.5	65.6	82.5	103.1	127.4	189.3
-2.5°	0.0	15.0	21.6	30.0	40.3	51.4	65.5	82.4	102.9	127.2	188.7
-5°	0.0	14.9	21.5	29.9	40.1	51.3	65.3	82.0	102.4	126.5	186.8
-7.5°	0.0	14.9	21.5	29.8	39.9	51.0	64.9	81.5	101.6	125.4	183.6
-10°	0.0	14.8	21.4	29.6	39.7	50.6	64.3	80.6	100.5	123.9	179.3
-12.5°	0.0	14.6	21.3	29.4	39.3	50.2	63.5	79.6	99.0	121.9	173.7
-15°	0.0	14.5	21.1	29.1	38.9	49.6	62.7	78.3	97.3	119.6	166.8
-17.5°	0.0	14.3	21.0	28.8	38.4	48.9	61.6	76.9	95.2	116.8	158.8
-20°	0.0	14.1	20.8	28.5	37.8	48.1	60.4	75.2	92.8	113.6	149.7



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 CATALOG NUMBER: EPH-LS-16-1200L-40-80-4R-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	13.9	20.6	28.1	37.1	47.2	59.0	73.2	90.1	110.0	139.3
-25°	0.0	13.6	20.4	27.6	36.4	46.2	57.5	71.1	87.1	106.0	127.9
-27.5°	0.0	13.3	20.1	27.1	35.6	45.1	55.9	68.8	83.8	101.8	122.7
-30°	0.0	13.0	19.8	26.6	34.7	43.9	54.1	66.2	80.7	97.8	117.4
-32.5°	0.0	12.6	19.5	26.0	33.8	42.6	52.1	63.9	77.5	93.5	111.7
-35°	0.0	12.3	19.2	25.4	32.8	41.3	50.3	61.4	74.2	88.8	105.6
-37.5°	0.0	11.9	18.9	24.8	31.7	39.8	48.6	58.8	70.6	83.9	99.7
-40°	0.0	11.5	18.5	24.1	30.6	38.4	46.7	56.1	66.9	79.4	93.9
-42.5°	0.0	11.1	18.1	23.4	29.5	36.9	44.8	53.2	63.4	75.0	87.9
-45°	0.0	10.6	17.7	22.6	28.5	35.4	42.7	50.5	59.9	70.3	81.7
-47.5°	0.0	10.1	17.3	21.8	27.4	33.7	40.6	48.0	56.3	65.5	76.3
-50°	0.0	9.6	16.9	21.1	26.3	32.0	38.6	45.4	52.6	61.3	70.8
-52.5°	0.0	9.1	16.4	20.4	25.2	30.3	36.4	42.8	49.3	57.0	65.1
-55°	0.0	8.6	16.0	19.7	24.0	28.8	34.3	40.0	46.2	52.5	60.1
-57.5°	0.0	8.1	15.5	19.0	22.8	27.2	32.0	37.4	42.9	48.7	55.0
-60°	0.0	7.5	15.0	18.3	21.5	25.7	29.8	34.7	39.7	44.9	50.2
-62.5°	0.0	6.9	13.8	17.5	20.5	24.1	27.9	32.0	36.5	41.1	45.9
-65°	0.0	6.3	12.7	16.7	19.5	22.4	25.9	29.3	33.3	37.4	41.6
-67.5°	0.0	5.7	11.5	16.0	18.5	20.9	23.9	27.0	30.1	33.8	37.4
-70°	0.0	5.1	10.2	15.2	17.4	19.6	21.9	24.6	27.4	30.1	33.3
-72.5°	0.0	4.5	9.0	13.5	16.3	18.3	20.2	22.2	24.6	27.0	29.3
-75°	0.0	3.9	7.8	11.6	15.2	16.9	18.5	20.2	21.9	23.9	25.9
-77.5°	0.0	3.2	6.5	9.7	12.9	15.5	16.9	18.3	19.6	20.9	22.4
-80°	0.0	2.6	5.2	7.8	10.4	12.9	15.2	16.3	17.4	18.5	19.5
-82.5°	0.0	2.0	3.9	5.9	7.8	9.7	11.6	13.5	15.2	16.0	16.7
-85°	0.0	1.3	2.6	3.9	5.2	6.5	7.8	9.0	10.2	11.5	12.7
-87.5°	0.0	0.7	1.3	2.0	2.6	3.2	3.9	4.5	5.1	5.7	6.3
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699876 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-4R-S

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°	6.9	7.5	8.1	8.6	9.1	9.6	10.1	10.6	11.1	11.5	11.9
85°	13.8	15.0	15.5	16.0	16.4	16.9	17.3	17.7	18.1	18.5	18.9
82.5°	17.5	18.3	19.0	19.7	20.4	21.1	21.8	22.6	23.4	24.1	24.8
80°	20.5	21.5	22.8	24.0	25.2	26.3	27.4	28.5	29.5	30.6	31.7
77.5°	24.1	25.7	27.2	28.8	30.3	32.0	33.7	35.4	36.9	38.4	39.8
75°	27.9	29.8	32.0	34.3	36.4	38.6	40.6	42.7	44.8	46.7	48.6
72.5°	32.0	34.7	37.4	40.0	42.8	45.4	48.0	50.5	53.2	56.1	58.8
70°	36.5	39.7	42.9	46.2	49.3	52.6	56.3	59.9	63.4	66.9	70.6
67.5°	41.1	44.9	48.7	52.5	57.0	61.3	65.5	70.3	75.0	79.4	83.9
65°	45.9	50.2	55.0	60.1	65.1	70.8	76.3	81.7	87.9	93.9	99.7
62.5°	50.7	56.3	62.0	68.0	74.6	80.9	88.1	95.3	102.3	110.0	117.6
60°	56.3	62.7	69.5	76.9	84.3	92.8	101.0	110.0	119.0	127.9	149.0
57.5°	62.0	69.5	77.6	86.2	95.6	105.1	115.6	125.7	148.1	172.1	194.1
55°	68.0	76.9	86.2	96.6	107.3	119.0	134.8	162.7	189.6	211.2	231.9
52.5°	74.6	84.3	95.6	107.3	120.1	140.7	171.6	199.5	223.7	251.1	288.8
50°	80.9	92.8	105.1	119.0	140.7	174.6	204.5	231.2	268.3	310.4	368.8
47.5°	88.1	101.0	115.6	134.8	171.6	204.5	233.7	276.9	323.5	400.1	477.0
45°	95.3	110.0	125.7	162.7	199.5	231.2	276.9	327.9	415.8	501.9	588.4
42.5°	102.3	119.0	148.1	189.6	223.7	268.3	323.5	415.8	510.4	605.6	683.8
40°	110.0	127.9	172.1	211.2	251.1	310.4	400.1	501.9	605.6	690.3	762.0
37.5°	117.6	149.0	194.1	231.9	288.8	368.8	477.0	588.4	683.8	762.0	820.3
35°	124.7	169.0	212.2	259.1	324.8	437.5	554.4	664.6	748.8	815.2	926.8
32.5°	137.8	187.9	229.4	290.6	383.1	503.9	628.3	722.8	800.0	889.0	1120.7
30°	153.9	202.9	248.8	320.4	440.2	569.0	684.4	775.0	844.8	1062.9	1699.4
27.5°	169.0	216.7	274.3	363.9	494.4	630.0	732.7	814.4	967.8	1360.4	2456.7
25°	182.8	229.4	298.0	409.6	546.8	675.9	774.8	851.2	1111.5	2025.2	3700.4
22.5°	194.5	241.2	319.6	451.6	594.9	714.2	806.3	960.8	1434.7	2669.9	4997.3
20°	204.0	259.1	348.0	490.0	638.6	749.1	834.9	1073.5	1959.1	3776.3	7532.3
17.5°	212.5	275.0	379.0	525.8	669.2	776.8	871.6	1174.7	2431.0	4774.5	10456.2
15°	220.0	288.8	406.1	557.1	694.4	797.5	953.7	1517.7	3071.6	6090.2	13095.4
12.5°	226.3	300.7	429.2	583.9	715.9	815.3	1024.1	1847.4	3772.2	8152.5	16737.1
10°	231.5	310.4	448.3	606.0	733.6	830.0	1082.3	2120.4	4353.2	9866.2	19769.8
7.5°	235.5	318.1	463.2	623.3	747.5	841.5	1127.9	2334.8	4810.2	11216.0	22163.1
5°	238.5	323.5	473.9	635.6	757.5	849.8	1160.7	2489.1	5139.3	12189.6	23891.9
2.5°	240.2	326.8	480.4	643.1	763.5	854.7	1180.5	2582.1	5338.0	12777.5	24937.1
0°	240.8	327.9	482.5	645.6	765.5	856.4	1187.1	2613.2	5404.4	12974.2	25286.8
-2.5°	240.2	326.8	480.4	643.1	763.5	854.7	1180.5	2582.1	5338.0	12777.5	24937.1
-5°	238.5	323.5	473.9	635.6	757.5	849.8	1160.7	2489.1	5139.3	12189.6	23891.9
-7.5°	235.5	318.1	463.2	623.3	747.5	841.5	1127.9	2334.8	4810.2	11216.0	22163.1
-10°	231.5	310.4	448.3	606.0	733.6	830.0	1082.3	2120.4	4353.2	9866.2	19769.8
-12.5°	226.3	300.7	429.2	583.9	715.9	815.3	1024.1	1847.4	3772.2	8152.5	16737.1
-15°	220.0	288.8	406.1	557.1	694.4	797.5	953.7	1517.7	3071.6	6090.2	13095.4
-17.5°	212.5	275.0	379.0	525.8	669.2	776.8	871.6	1174.7	2431.0	4774.5	10456.2
-20°	204.0	259.1	348.0	490.0	638.6	749.1	834.9	1073.5	1959.1	3776.3	7532.3



REPORT NUMBER: P699876 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-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°	194.5	241.2	319.6	451.6	594.9	714.2	806.3	960.8	1434.7	2669.9	4997.3
-25°	182.8	229.4	298.0	409.6	546.8	675.9	774.8	851.2	1111.5	2025.2	3700.4
-27.5°	169.0	216.7	274.3	363.9	494.4	630.0	732.7	814.4	967.8	1360.4	2456.7
-30°	153.9	202.9	248.8	320.4	440.2	569.0	684.4	775.0	844.8	1062.9	1699.4
-32.5°	137.8	187.9	229.4	290.6	383.1	503.9	628.3	722.8	800.0	889.0	1120.7
-35°	124.7	169.0	212.2	259.1	324.8	437.5	554.4	664.6	748.8	815.2	926.8
-37.5°	117.6	149.0	194.1	231.9	288.8	368.8	477.0	588.4	683.8	762.0	820.3
-40°	110.0	127.9	172.1	211.2	251.1	310.4	400.1	501.9	605.6	690.3	762.0
-42.5°	102.3	119.0	148.1	189.6	223.7	268.3	323.5	415.8	510.4	605.6	683.8
-45°	95.3	110.0	125.7	162.7	199.5	231.2	276.9	327.9	415.8	501.9	588.4
-47.5°	88.1	101.0	115.6	134.8	171.6	204.5	233.7	276.9	323.5	400.1	477.0
-50°	80.9	92.8	105.1	119.0	140.7	174.6	204.5	231.2	268.3	310.4	368.8
-52.5°	74.6	84.3	95.6	107.3	120.1	140.7	171.6	199.5	223.7	251.1	288.8
-55°	68.0	76.9	86.2	96.6	107.3	119.0	134.8	162.7	189.6	211.2	231.9
-57.5°	62.0	69.5	77.6	86.2	95.6	105.1	115.6	125.7	148.1	172.1	194.1
-60°	56.3	62.7	69.5	76.9	84.3	92.8	101.0	110.0	119.0	127.9	149.0
-62.5°	50.7	56.3	62.0	68.0	74.6	80.9	88.1	95.3	102.3	110.0	117.6
-65°	45.9	50.2	55.0	60.1	65.1	70.8	76.3	81.7	87.9	93.9	99.7
-67.5°	41.1	44.9	48.7	52.5	57.0	61.3	65.5	70.3	75.0	79.4	83.9
-70°	36.5	39.7	42.9	46.2	49.3	52.6	56.3	59.9	63.4	66.9	70.6
-72.5°	32.0	34.7	37.4	40.0	42.8	45.4	48.0	50.5	53.2	56.1	58.8
-75°	27.9	29.8	32.0	34.3	36.4	38.6	40.6	42.7	44.8	46.7	48.6
-77.5°	24.1	25.7	27.2	28.8	30.3	32.0	33.7	35.4	36.9	38.4	39.8
-80°	20.5	21.5	22.8	24.0	25.2	26.3	27.4	28.5	29.5	30.6	31.7
-82.5°	17.5	18.3	19.0	19.7	20.4	21.1	21.8	22.6	23.4	24.1	24.8
-85°	13.8	15.0	15.5	16.0	16.4	16.9	17.3	17.7	18.1	18.5	18.9
-87.5°	6.9	7.5	8.1	8.6	9.1	9.6	10.1	10.6	11.1	11.5	11.9
-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: P699876 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-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°	12.3	12.6	13.0	13.3	13.6	13.9	14.1	14.3	14.5	14.6	14.8
85°	19.2	19.5	19.8	20.1	20.4	20.6	20.8	21.0	21.1	21.3	21.4
82.5°	25.4	26.0	26.6	27.1	27.6	28.1	28.5	28.8	29.1	29.4	29.6
80°	32.8	33.8	34.7	35.6	36.4	37.1	37.8	38.4	38.9	39.3	39.7
77.5°	41.3	42.6	43.9	45.1	46.2	47.2	48.1	48.9	49.6	50.2	50.6
75°	50.3	52.1	54.1	55.9	57.5	59.0	60.4	61.6	62.7	63.5	64.3
72.5°	61.4	63.9	66.2	68.8	71.1	73.2	75.2	76.9	78.3	79.6	80.6
70°	74.2	77.5	80.7	83.8	87.1	90.1	92.8	95.2	97.3	99.0	100.5
67.5°	88.8	93.5	97.8	101.8	106.0	110.0	113.6	116.8	119.6	121.9	123.9
65°	105.6	111.7	117.4	122.7	127.9	133.3	149.7	158.8	166.8	173.7	179.3
62.5°	124.7	137.8	153.9	169.0	182.8	194.5	204.0	212.5	220.0	226.3	231.5
60°	169.0	187.9	202.9	216.7	229.4	241.2	259.1	275.0	288.8	300.7	310.4
57.5°	212.2	229.4	248.8	274.3	298.0	319.6	348.0	379.0	406.1	429.2	448.3
55°	259.1	290.6	320.4	363.9	409.6	451.6	490.0	525.8	557.1	583.9	606.0
52.5°	324.8	383.1	440.2	494.4	546.8	594.9	638.6	669.2	694.4	715.9	733.6
50°	437.5	503.9	569.0	630.0	675.9	714.2	749.1	776.8	797.5	815.3	830.0
47.5°	554.4	628.3	684.4	732.7	774.8	806.3	834.9	871.6	953.7	1024.1	1082.3
45°	664.6	722.8	775.0	814.4	851.2	960.8	1073.5	1174.7	1517.7	1847.4	2120.4
42.5°	748.8	800.0	844.8	967.8	1111.5	1434.7	1959.1	2431.0	3071.6	3772.2	4353.2
40°	815.2	889.0	1062.9	1360.4	2025.2	2669.9	3776.3	4774.5	6090.2	8152.5	9866.2
37.5°	926.8	1120.7	1699.4	2456.7	3700.4	4997.3	7532.3	10456.2	13095.4	16737.1	19769.8
35°	1140.1	1870.9	2821.6	4401.6	6726.4	10499.5	14607.1	19742.1	24309.4	28500.3	32063.8
32.5°	1870.9	2994.5	4756.6	8207.7	12523.6	18818.6	24904.9	30856.1	36195.8	40451.9	43679.3
30°	2821.6	4756.6	8706.0	13910.9	21396.5	28687.1	35747.0	41588.5	46396.0	50172.8	52213.0
27.5°	4401.6	8207.7	13910.9	22264.6	30624.7	38719.7	45018.5	50298.9	53316.6	55963.5	57522.2
25°	6726.4	12523.6	21396.5	30624.7	39560.8	46766.8	51872.8	55490.2	57918.4	59930.9	62071.3
22.5°	10499.5	18818.6	28687.1	38719.7	46766.8	52404.9	56411.4	59128.7	62028.8	65004.8	68270.7
20°	14607.1	24904.9	35747.0	45018.5	51872.8	56411.4	59539.1	63194.0	67114.9	72412.1	77637.5
17.5°	19742.1	30856.1	41588.5	50298.9	55490.2	59128.7	63194.0	68127.4	74559.2	83504.0	92289.6
15°	24309.4	36195.8	46396.0	53316.6	57918.4	62028.8	67114.9	74559.2	85516.2	98856.2	114535.2
12.5°	28500.3	40451.9	50172.8	55963.5	59930.9	65004.8	72412.1	83504.0	98856.2	118343.3	142627.6
10°	32063.8	43679.3	52213.0	57522.2	62071.3	68270.7	77637.5	92289.6	114535.2	142627.6	178383.5
7.5°	34882.4	46239.2	53836.7	58765.1	63925.5	71609.8	84075.9	103553.1	131011.5	167847.0	252736.7
5°	36922.1	48095.6	55017.5	59672.1	65284.7	74071.5	88859.3	112242.2	145099.2	201334.1	361051.2
2.5°	38156.8	49221.1	55734.7	60224.4	66115.0	75581.8	91810.9	117648.0	153969.2	234982.8	455551.9
0°	38570.2	49598.3	55975.3	60409.9	66394.3	76091.0	92809.3	119484.7	157003.6	251209.0	490141.8
-2.5°	38156.8	49221.1	55734.7	60224.4	66115.0	75581.8	91810.9	117648.0	153969.2	234982.8	455551.9
-5°	36922.1	48095.6	55017.5	59672.1	65284.7	74071.5	88859.3	112242.2	145099.2	201334.1	361051.2
-7.5°	34882.4	46239.2	53836.7	58765.1	63925.5	71609.8	84075.9	103553.1	131011.5	167847.0	252736.7
-10°	32063.8	43679.3	52213.0	57522.2	62071.3	68270.7	77637.5	92289.6	114535.2	142627.6	178383.5
-12.5°	28500.3	40451.9	50172.8	55963.5	59930.9	65004.8	72412.1	83504.0	98856.2	118343.3	142627.6
-15°	24309.4	36195.8	46396.0	53316.6	57918.4	62028.8	67114.9	74559.2	85516.2	98856.2	114535.2
-17.5°	19742.1	30856.1	41588.5	50298.9	55490.2	59128.7	63194.0	68127.4	74559.2	83504.0	92289.6
-20°	14607.1	24904.9	35747.0	45018.5	51872.8	56411.4	59539.1	63194.0	67114.9	72412.1	77637.5



REPORT NUMBER: P699876 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-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°	10499.5	18818.6	28687.1	38719.7	46766.8	52404.9	56411.4	59128.7	62028.8	65004.8	68270.7
-25°	6726.4	12523.6	21396.5	30624.7	39560.8	46766.8	51872.8	55490.2	57918.4	59930.9	62071.3
-27.5°	4401.6	8207.7	13910.9	22264.6	30624.7	38719.7	45018.5	50298.9	53316.6	55963.5	57522.2
-30°	2821.6	4756.6	8706.0	13910.9	21396.5	28687.1	35747.0	41588.5	46396.0	50172.8	52213.0
-32.5°	1870.9	2994.5	4756.6	8207.7	12523.6	18818.6	24904.9	30856.1	36195.8	40451.9	43679.3
-35°	1140.1	1870.9	2821.6	4401.6	6726.4	10499.5	14607.1	19742.1	24309.4	28500.3	32063.8
-37.5°	926.8	1120.7	1699.4	2456.7	3700.4	4997.3	7532.3	10456.2	13095.4	16737.1	19769.8
-40°	815.2	889.0	1062.9	1360.4	2025.2	2669.9	3776.3	4774.5	6090.2	8152.5	9866.2
-42.5°	748.8	800.0	844.8	967.8	1111.5	1434.7	1959.1	2431.0	3071.6	3772.2	4353.2
-45°	664.6	722.8	775.0	814.4	851.2	960.8	1073.5	1174.7	1517.7	1847.4	2120.4
-47.5°	554.4	628.3	684.4	732.7	774.8	806.3	834.9	871.6	953.7	1024.1	1082.3
-50°	437.5	503.9	569.0	630.0	675.9	714.2	749.1	776.8	797.5	815.3	830.0
-52.5°	324.8	383.1	440.2	494.4	546.8	594.9	638.6	669.2	694.4	715.9	733.6
-55°	259.1	290.6	320.4	363.9	409.6	451.6	490.0	525.8	557.1	583.9	606.0
-57.5°	212.2	229.4	248.8	274.3	298.0	319.6	348.0	379.0	406.1	429.2	448.3
-60°	169.0	187.9	202.9	216.7	229.4	241.2	259.1	275.0	288.8	300.7	310.4
-62.5°	124.7	137.8	153.9	169.0	182.8	194.5	204.0	212.5	220.0	226.3	231.5
-65°	105.6	111.7	117.4	122.7	127.9	139.3	149.7	158.8	166.8	173.7	179.3
-67.5°	88.8	93.5	97.8	101.8	106.0	110.0	113.6	116.8	119.6	121.9	123.9
-70°	74.2	77.5	80.7	83.8	87.1	90.1	92.8	95.2	97.3	99.0	100.5
-72.5°	61.4	63.9	66.2	68.8	71.1	73.2	75.2	76.9	78.3	79.6	80.6
-75°	50.3	52.1	54.1	55.9	57.5	59.0	60.4	61.6	62.7	63.5	64.3
-77.5°	41.3	42.6	43.9	45.1	46.2	47.2	48.1	48.9	49.6	50.2	50.6
-80°	32.8	33.8	34.7	35.6	36.4	37.1	37.8	38.4	38.9	39.3	39.7
-82.5°	25.4	26.0	26.6	27.1	27.6	28.1	28.5	28.8	29.1	29.4	29.6
-85°	19.2	19.5	19.8	20.1	20.4	20.6	20.8	21.0	21.1	21.3	21.4
-87.5°	12.3	12.6	13.0	13.3	13.6	13.9	14.1	14.3	14.5	14.6	14.8
-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: P699876 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-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°	14.9	14.9	15.0	15.0	15.0	14.9	14.9	14.8	14.6	14.5	14.3
85°	21.5	21.5	21.6	21.6	21.6	21.5	21.5	21.4	21.3	21.1	21.0
82.5°	29.8	29.9	30.0	30.0	30.0	29.9	29.8	29.6	29.4	29.1	28.8
80°	39.9	40.1	40.3	40.3	40.3	40.1	39.9	39.7	39.3	38.9	38.4
77.5°	51.0	51.3	51.4	51.5	51.4	51.3	51.0	50.6	50.2	49.6	48.9
75°	64.9	65.3	65.5	65.6	65.5	65.3	64.9	64.3	63.5	62.7	61.6
72.5°	81.5	82.0	82.4	82.5	82.4	82.0	81.5	80.6	79.6	78.3	76.9
70°	101.6	102.4	102.9	103.1	102.9	102.4	101.6	100.5	99.0	97.3	95.2
67.5°	125.4	126.5	127.2	127.4	127.2	126.5	125.4	123.9	121.9	119.6	116.8
65°	183.6	186.8	188.7	189.3	188.7	186.8	183.6	179.3	173.7	166.8	158.8
62.5°	235.5	238.5	240.2	240.8	240.2	238.5	235.5	231.5	226.3	220.0	212.5
60°	318.1	323.5	326.8	327.9	326.8	323.5	318.1	310.4	300.7	288.8	275.0
57.5°	463.2	473.9	480.4	482.5	480.4	473.9	463.2	448.3	429.2	406.1	379.0
55°	623.3	635.6	643.1	645.6	643.1	635.6	623.3	606.0	583.9	557.1	525.8
52.5°	747.5	757.5	763.5	765.5	763.5	757.5	747.5	733.6	715.9	694.4	669.2
50°	841.5	849.8	854.7	856.4	854.7	849.8	841.5	830.0	815.3	797.5	776.8
47.5°	1127.9	1160.7	1180.5	1187.1	1180.5	1160.7	1127.9	1082.3	1024.1	953.7	871.6
45°	2334.8	2489.1	2582.1	2613.2	2582.1	2489.1	2334.8	2120.4	1847.4	1517.7	1174.7
42.5°	4810.2	5139.3	5338.0	5404.4	5338.0	5139.3	4810.2	4353.2	3772.2	3071.6	2431.0
40°	11216.0	12189.6	12777.5	12974.2	12777.5	12189.6	11216.0	9866.2	8152.5	6090.2	4774.5
37.5°	22163.1	23891.9	24937.1	25286.8	24937.1	23891.9	22163.1	19769.8	16737.1	13095.4	10456.2
35°	34882.4	36922.1	38156.8	38570.2	38156.8	36922.1	34882.4	32063.8	28500.3	24309.4	19742.1
32.5°	46239.2	48095.6	49221.1	49598.3	49221.1	48095.6	46239.2	43679.3	40451.9	36195.8	30856.1
30°	53836.7	55017.5	55734.7	55975.3	55734.7	55017.5	53836.7	52213.0	50172.8	46396.0	41588.5
27.5°	58765.1	59672.1	60224.4	60409.9	60224.4	59672.1	58765.1	57522.2	55963.5	53316.6	50298.9
25°	63925.5	65284.7	66115.0	66394.3	66115.0	65284.7	63925.5	62071.3	59930.9	57918.4	55490.2
22.5°	71609.8	74071.5	75581.8	76091.0	75581.8	74071.5	71609.8	68270.7	65004.8	62028.8	59128.7
20°	84075.9	88859.3	91810.9	92809.3	91810.9	88859.3	84075.9	77637.5	72412.1	67114.9	63194.0
17.5°	103553.1	112242.2	117648.0	119484.7	117648.0	112242.2	103553.1	92289.6	83504.0	74559.2	68127.4
15°	131011.5	145099.2	153969.2	157003.6	153969.2	145099.2	131011.5	114535.2	98856.2	85516.2	74559.2
12.5°	167847.0	201334.1	234982.8	251209.0	234982.8	201334.1	167847.0	142627.6	118343.3	98856.2	83504.0
10°	252736.7	361051.2	455551.9	490141.8	455551.9	361051.2	252736.7	178383.5	142627.6	114535.2	92289.6
7.5°	422999.3	598439.3	678411.7	699090.4	678411.7	598439.3	422999.3	252736.7	167847.0	131011.5	103553.1
5°	598439.3	721306.3	780665.2	801875.1	780665.2	721306.3	598439.3	361051.2	201334.1	145099.2	112242.2
2.5°	678411.7	780665.2	848346.9	876521.8	848346.9	780665.2	678411.7	455551.9	234982.8	153969.2	117648.0
0°	699090.4	801875.1	876521.8	911927.3	876521.8	801875.1	699090.4	490141.8	251209.0	157003.6	119484.7
-2.5°	678411.7	780665.2	848346.9	876521.8	848346.9	780665.2	678411.7	455551.9	234982.8	153969.2	117648.0
-5°	598439.3	721306.3	780665.2	801875.1	780665.2	721306.3	598439.3	361051.2	201334.1	145099.2	112242.2
-7.5°	422999.3	598439.3	678411.7	699090.4	678411.7	598439.3	422999.3	252736.7	167847.0	131011.5	103553.1
-10°	252736.7	361051.2	455551.9	490141.8	455551.9	361051.2	252736.7	178383.5	142627.6	114535.2	92289.6
-12.5°	167847.0	201334.1	234982.8	251209.0	234982.8	201334.1	167847.0	142627.6	118343.3	98856.2	83504.0
-15°	131011.5	145099.2	153969.2	157003.6	153969.2	145099.2	131011.5	114535.2	98856.2	85516.2	74559.2
-17.5°	103553.1	112242.2	117648.0	119484.7	117648.0	112242.2	103553.1	92289.6	83504.0	74559.2	68127.4
-20°	84075.9	88859.3	91810.9	92809.3	91810.9	88859.3	84075.9	77637.5	72412.1	67114.9	63194.0



REPORT NUMBER: P699876 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-4R-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	71609.8	74071.5	75581.8	76091.0	75581.8	74071.5	71609.8	68270.7	65004.8	62028.8	59128.7
-25°	63925.5	65284.7	66115.0	66394.3	66115.0	65284.7	63925.5	62071.3	59930.9	57918.4	55490.2
-27.5°	58765.1	59672.1	60224.4	60409.9	60224.4	59672.1	58765.1	57522.2	55963.5	53316.6	50298.9
-30°	53836.7	55017.5	55734.7	55975.3	55734.7	55017.5	53836.7	52213.0	50172.8	46396.0	41588.5
-32.5°	46239.2	48095.6	49221.1	49598.3	49221.1	48095.6	46239.2	43679.3	40451.9	36195.8	30856.1
-35°	34882.4	36922.1	38156.8	38570.2	38156.8	36922.1	34882.4	32063.8	28500.3	24309.4	19742.1
-37.5°	22163.1	23891.9	24937.1	25286.8	24937.1	23891.9	22163.1	19769.8	16737.1	13095.4	10456.2
-40°	11216.0	12189.6	12777.5	12974.2	12777.5	12189.6	11216.0	9866.2	8152.5	6090.2	4774.5
-42.5°	4810.2	5139.3	5338.0	5404.4	5338.0	5139.3	4810.2	4353.2	3772.2	3071.6	2431.0
-45°	2334.8	2489.1	2582.1	2613.2	2582.1	2489.1	2334.8	2120.4	1847.4	1517.7	1174.7
-47.5°	1127.9	1160.7	1180.5	1187.1	1180.5	1160.7	1127.9	1082.3	1024.1	953.7	871.6
-50°	841.5	849.8	854.7	856.4	854.7	849.8	841.5	830.0	815.3	797.5	776.8
-52.5°	747.5	757.5	763.5	765.5	763.5	757.5	747.5	733.6	715.9	694.4	669.2
-55°	623.3	635.6	643.1	645.6	643.1	635.6	623.3	606.0	583.9	557.1	525.8
-57.5°	463.2	473.9	480.4	482.5	480.4	473.9	463.2	448.3	429.2	406.1	379.0
-60°	318.1	323.5	326.8	327.9	326.8	323.5	318.1	310.4	300.7	288.8	275.0
-62.5°	235.5	238.5	240.2	240.8	240.2	238.5	235.5	231.5	226.3	220.0	212.5
-65°	183.6	186.8	188.7	189.3	188.7	186.8	183.6	179.3	173.7	166.8	158.8
-67.5°	125.4	126.5	127.2	127.4	127.2	126.5	125.4	123.9	121.9	119.6	116.8
-70°	101.6	102.4	102.9	103.1	102.9	102.4	101.6	100.5	99.0	97.3	95.2
-72.5°	81.5	82.0	82.4	82.5	82.4	82.0	81.5	80.6	79.6	78.3	76.9
-75°	64.9	65.3	65.5	65.6	65.5	65.3	64.9	64.3	63.5	62.7	61.6
-77.5°	51.0	51.3	51.4	51.5	51.4	51.3	51.0	50.6	50.2	49.6	48.9
-80°	39.9	40.1	40.3	40.3	40.3	40.1	39.9	39.7	39.3	38.9	38.4
-82.5°	29.8	29.9	30.0	30.0	30.0	29.9	29.8	29.6	29.4	29.1	28.8
-85°	21.5	21.5	21.6	21.6	21.6	21.5	21.5	21.4	21.3	21.1	21.0
-87.5°	14.9	14.9	15.0	15.0	15.0	14.9	14.9	14.8	14.6	14.5	14.3
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699876 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-4R-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.1	13.9	13.6	13.3	13.0	12.6	12.3	11.9	11.5	11.1	10.6
85°	20.8	20.6	20.4	20.1	19.8	19.5	19.2	18.9	18.5	18.1	17.7
82.5°	28.5	28.1	27.6	27.1	26.6	26.0	25.4	24.8	24.1	23.4	22.6
80°	37.8	37.1	36.4	35.6	34.7	33.8	32.8	31.7	30.6	29.5	28.5
77.5°	48.1	47.2	46.2	45.1	43.9	42.6	41.3	39.8	38.4	36.9	35.4
75°	60.4	59.0	57.5	55.9	54.1	52.1	50.3	48.6	46.7	44.8	42.7
72.5°	75.2	73.2	71.1	68.8	66.2	63.9	61.4	58.8	56.1	53.2	50.5
70°	92.8	90.1	87.1	83.8	80.7	77.5	74.2	70.6	66.9	63.4	59.9
67.5°	113.6	110.0	106.0	101.8	97.8	93.5	88.8	83.9	79.4	75.0	70.3
65°	149.7	139.3	127.9	122.7	117.4	111.7	105.6	99.7	93.9	87.9	81.7
62.5°	204.0	194.5	182.8	169.0	153.9	137.8	124.7	117.6	110.0	102.3	95.3
60°	259.1	241.2	229.4	216.7	202.9	187.9	169.0	149.0	127.9	119.0	110.0
57.5°	348.0	319.6	298.0	274.3	248.8	229.4	212.2	194.1	172.1	148.1	125.7
55°	490.0	451.6	409.6	363.9	320.4	290.6	259.1	231.9	211.2	189.6	162.7
52.5°	638.6	594.9	546.8	494.4	440.2	383.1	324.8	288.8	251.1	223.7	199.5
50°	749.1	714.2	675.9	630.0	569.0	503.9	437.5	368.8	310.4	268.3	231.2
47.5°	834.9	806.3	774.8	732.7	684.4	628.3	554.4	477.0	400.1	323.5	276.9
45°	1073.5	960.8	851.2	814.4	775.0	722.8	664.6	588.4	501.9	415.8	327.9
42.5°	1959.1	1434.7	1111.5	967.8	844.8	800.0	748.8	683.8	605.6	510.4	415.8
40°	3776.3	2669.9	2025.2	1360.4	1062.9	889.0	815.2	762.0	690.3	605.6	501.9
37.5°	7532.3	4997.3	3700.4	2456.7	1699.4	1120.7	926.8	820.3	762.0	683.8	588.4
35°	14607.1	10499.5	6726.4	4401.6	2821.6	1870.9	1140.1	926.8	815.2	748.8	664.6
32.5°	24904.9	18818.6	12523.6	8207.7	4756.6	2994.5	1870.9	1120.7	889.0	800.0	722.8
30°	35747.0	28687.1	21396.5	13910.9	8706.0	4756.6	2821.6	1699.4	1062.9	844.8	775.0
27.5°	45018.5	38719.7	30624.7	22264.6	13910.9	8207.7	4401.6	2456.7	1360.4	967.8	814.4
25°	51872.8	46766.8	39560.8	30624.7	21396.5	12523.6	6726.4	3700.4	2025.2	1111.5	851.2
22.5°	56411.4	52404.9	46766.8	38719.7	28687.1	18818.6	10499.5	4997.3	2669.9	1434.7	960.8
20°	59539.1	56411.4	51872.8	45018.5	35747.0	24904.9	14607.1	7532.3	3776.3	1959.1	1073.5
17.5°	63194.0	59128.7	55490.2	50298.9	41588.5	30856.1	19742.1	10456.2	4774.5	2431.0	1174.7
15°	67114.9	62028.8	57918.4	53316.6	46396.0	36195.8	24309.4	13095.4	6090.2	3071.6	1517.7
12.5°	72412.1	65004.8	59930.9	55963.5	50172.8	40451.9	28500.3	16737.1	8152.5	3772.2	1847.4
10°	77637.5	68270.7	62071.3	57522.2	52213.0	43679.3	32063.8	19769.8	9866.2	4353.2	2120.4
7.5°	84075.9	71609.8	63925.5	58765.1	53836.7	46239.2	34882.4	22163.1	11216.0	4810.2	2334.8
5°	88859.3	74071.5	65284.7	59672.1	55017.5	48095.6	36922.1	23891.9	12189.6	5139.3	2489.1
2.5°	91810.9	75581.8	66115.0	60224.4	55734.7	49221.1	38156.8	24937.1	12777.5	5338.0	2582.1
0°	92809.3	76091.0	66394.3	60409.9	55975.3	49598.3	38570.2	25286.8	12974.2	5404.4	2613.2
-2.5°	91810.9	75581.8	66115.0	60224.4	55734.7	49221.1	38156.8	24937.1	12777.5	5338.0	2582.1
-5°	88859.3	74071.5	65284.7	59672.1	55017.5	48095.6	36922.1	23891.9	12189.6	5139.3	2489.1
-7.5°	84075.9	71609.8	63925.5	58765.1	53836.7	46239.2	34882.4	22163.1	11216.0	4810.2	2334.8
-10°	77637.5	68270.7	62071.3	57522.2	52213.0	43679.3	32063.8	19769.8	9866.2	4353.2	2120.4
-12.5°	72412.1	65004.8	59930.9	55963.5	50172.8	40451.9	28500.3	16737.1	8152.5	3772.2	1847.4
-15°	67114.9	62028.8	57918.4	53316.6	46396.0	36195.8	24309.4	13095.4	6090.2	3071.6	1517.7
-17.5°	63194.0	59128.7	55490.2	50298.9	41588.5	30856.1	19742.1	10456.2	4774.5	2431.0	1174.7
-20°	59539.1	56411.4	51872.8	45018.5	35747.0	24904.9	14607.1	7532.3	3776.3	1959.1	1073.5



REPORT NUMBER: P699876 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-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°	56411.4	52404.9	46766.8	38719.7	28687.1	18818.6	10499.5	4997.3	2669.9	1434.7	960.8
-25°	51872.8	46766.8	39560.8	30624.7	21396.5	12523.6	6726.4	3700.4	2025.2	1111.5	851.2
-27.5°	45018.5	38719.7	30624.7	22264.6	13910.9	8207.7	4401.6	2456.7	1360.4	967.8	814.4
-30°	35747.0	28687.1	21396.5	13910.9	8706.0	4756.6	2821.6	1699.4	1062.9	844.8	775.0
-32.5°	24904.9	18818.6	12523.6	8207.7	4756.6	2994.5	1870.9	1120.7	889.0	800.0	722.8
-35°	14607.1	10499.5	6726.4	4401.6	2821.6	1870.9	1140.1	926.8	815.2	748.8	664.6
-37.5°	7532.3	4997.3	3700.4	2456.7	1699.4	1120.7	926.8	820.3	762.0	683.8	588.4
-40°	3776.3	2669.9	2025.2	1360.4	1062.9	889.0	815.2	762.0	690.3	605.6	501.9
-42.5°	1959.1	1434.7	1111.5	967.8	844.8	800.0	748.8	683.8	605.6	510.4	415.8
-45°	1073.5	960.8	851.2	814.4	775.0	722.8	664.6	588.4	501.9	415.8	327.9
-47.5°	834.9	806.3	774.8	732.7	684.4	628.3	554.4	477.0	400.1	323.5	276.9
-50°	749.1	714.2	675.9	630.0	569.0	503.9	437.5	368.8	310.4	268.3	231.2
-52.5°	638.6	594.9	546.8	494.4	440.2	383.1	324.8	288.8	251.1	223.7	199.5
-55°	490.0	451.6	409.6	363.9	320.4	290.6	259.1	231.9	211.2	189.6	162.7
-57.5°	348.0	319.6	298.0	274.3	248.8	229.4	212.2	194.1	172.1	148.1	125.7
-60°	259.1	241.2	229.4	216.7	202.9	187.9	169.0	149.0	127.9	119.0	110.0
-62.5°	204.0	194.5	182.8	169.0	153.9	137.8	124.7	117.6	110.0	102.3	95.3
-65°	149.7	139.3	127.9	122.7	117.4	111.7	105.6	99.7	93.9	87.9	81.7
-67.5°	113.6	110.0	106.0	101.8	97.8	93.5	88.8	83.9	79.4	75.0	70.3
-70°	92.8	90.1	87.1	83.8	80.7	77.5	74.2	70.6	66.9	63.4	59.9
-72.5°	75.2	73.2	71.1	68.8	66.2	63.9	61.4	58.8	56.1	53.2	50.5
-75°	60.4	59.0	57.5	55.9	54.1	52.1	50.3	48.6	46.7	44.8	42.7
-77.5°	48.1	47.2	46.2	45.1	43.9	42.6	41.3	39.8	38.4	36.9	35.4
-80°	37.8	37.1	36.4	35.6	34.7	33.8	32.8	31.7	30.6	29.5	28.5
-82.5°	28.5	28.1	27.6	27.1	26.6	26.0	25.4	24.8	24.1	23.4	22.6
-85°	20.8	20.6	20.4	20.1	19.8	19.5	19.2	18.9	18.5	18.1	17.7
-87.5°	14.1	13.9	13.6	13.3	13.0	12.6	12.3	11.9	11.5	11.1	10.6
-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: P699876 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-4R-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.1	9.6	9.1	8.6	8.1	7.5	6.9	6.3	5.7	5.1	4.5
85°	17.3	16.9	16.4	16.0	15.5	15.0	13.8	12.7	11.5	10.2	9.0
82.5°	21.8	21.1	20.4	19.7	19.0	18.3	17.5	16.7	16.0	15.2	13.5
80°	27.4	26.3	25.2	24.0	22.8	21.5	20.5	19.5	18.5	17.4	16.3
77.5°	33.7	32.0	30.3	28.8	27.2	25.7	24.1	22.4	20.9	19.6	18.3
75°	40.6	38.6	36.4	34.3	32.0	29.8	27.9	25.9	23.9	21.9	20.2
72.5°	48.0	45.4	42.8	40.0	37.4	34.7	32.0	29.3	27.0	24.6	22.2
70°	56.3	52.6	49.3	46.2	42.9	39.7	36.5	33.3	30.1	27.4	24.6
67.5°	65.5	61.3	57.0	52.5	48.7	44.9	41.1	37.4	33.8	30.1	27.0
65°	76.3	70.8	65.1	60.1	55.0	50.2	45.9	41.6	37.4	33.3	29.3
62.5°	88.1	80.9	74.6	68.0	62.0	56.3	50.7	45.9	41.1	36.5	32.0
60°	101.0	92.8	84.3	76.9	69.5	62.7	56.3	50.2	44.9	39.7	34.7
57.5°	115.6	105.1	95.6	86.2	77.6	69.5	62.0	55.0	48.7	42.9	37.4
55°	134.8	119.0	107.3	96.6	86.2	76.9	68.0	60.1	52.5	46.2	40.0
52.5°	171.6	140.7	120.1	107.3	95.6	84.3	74.6	65.1	57.0	49.3	42.8
50°	204.5	174.6	140.7	119.0	105.1	92.8	80.9	70.8	61.3	52.6	45.4
47.5°	233.7	204.5	171.6	134.8	115.6	101.0	88.1	76.3	65.5	56.3	48.0
45°	276.9	231.2	199.5	162.7	125.7	110.0	95.3	81.7	70.3	59.9	50.5
42.5°	323.5	268.3	223.7	189.6	148.1	119.0	102.3	87.9	75.0	63.4	53.2
40°	400.1	310.4	251.1	211.2	172.1	127.9	110.0	93.9	79.4	66.9	56.1
37.5°	477.0	368.8	288.8	231.9	194.1	149.0	117.6	99.7	83.9	70.6	58.8
35°	554.4	437.5	324.8	259.1	212.2	169.0	124.7	105.6	88.8	74.2	61.4
32.5°	628.3	503.9	383.1	290.6	229.4	187.9	137.8	111.7	93.5	77.5	63.9
30°	684.4	569.0	440.2	320.4	248.8	202.9	153.9	117.4	97.8	80.7	66.2
27.5°	732.7	630.0	494.4	363.9	274.3	216.7	169.0	122.7	101.8	83.8	68.8
25°	774.8	675.9	546.8	409.6	298.0	229.4	182.8	127.9	106.0	87.1	71.1
22.5°	806.3	714.2	594.9	451.6	319.6	241.2	194.5	139.3	110.0	90.1	73.2
20°	834.9	749.1	638.6	490.0	348.0	259.1	204.0	149.7	113.6	92.8	75.2
17.5°	871.6	776.8	669.2	525.8	379.0	275.0	212.5	158.8	116.8	95.2	76.9
15°	953.7	797.5	694.4	557.1	406.1	288.8	220.0	166.8	119.6	97.3	78.3
12.5°	1024.1	815.3	715.9	583.9	429.2	300.7	226.3	173.7	121.9	99.0	79.6
10°	1082.3	830.0	733.6	606.0	448.3	310.4	231.5	179.3	123.9	100.5	80.6
7.5°	1127.9	841.5	747.5	623.3	463.2	318.1	235.5	183.6	125.4	101.6	81.5
5°	1160.7	849.8	757.5	635.6	473.9	323.5	238.5	186.8	126.5	102.4	82.0
2.5°	1180.5	854.7	763.5	643.1	480.4	326.8	240.2	188.7	127.2	102.9	82.4
0°	1187.1	856.4	765.5	645.6	482.5	327.9	240.8	189.3	127.4	103.1	82.5
-2.5°	1180.5	854.7	763.5	643.1	480.4	326.8	240.2	188.7	127.2	102.9	82.4
-5°	1160.7	849.8	757.5	635.6	473.9	323.5	238.5	186.8	126.5	102.4	82.0
-7.5°	1127.9	841.5	747.5	623.3	463.2	318.1	235.5	183.6	125.4	101.6	81.5
-10°	1082.3	830.0	733.6	606.0	448.3	310.4	231.5	179.3	123.9	100.5	80.6
-12.5°	1024.1	815.3	715.9	583.9	429.2	300.7	226.3	173.7	121.9	99.0	79.6
-15°	953.7	797.5	694.4	557.1	406.1	288.8	220.0	166.8	119.6	97.3	78.3
-17.5°	871.6	776.8	669.2	525.8	379.0	275.0	212.5	158.8	116.8	95.2	76.9
-20°	834.9	749.1	638.6	490.0	348.0	259.1	204.0	149.7	113.6	92.8	75.2



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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°	806.3	714.2	594.9	451.6	319.6	241.2	194.5	139.3	110.0	90.1	73.2
-25°	774.8	675.9	546.8	409.6	298.0	229.4	182.8	127.9	106.0	87.1	71.1
-27.5°	732.7	630.0	494.4	363.9	274.3	216.7	169.0	122.7	101.8	83.8	68.8
-30°	684.4	569.0	440.2	320.4	248.8	202.9	153.9	117.4	97.8	80.7	66.2
-32.5°	628.3	503.9	383.1	290.6	229.4	187.9	137.8	111.7	93.5	77.5	63.9
-35°	554.4	437.5	324.8	259.1	212.2	169.0	124.7	105.6	88.8	74.2	61.4
-37.5°	477.0	368.8	288.8	231.9	194.1	149.0	117.6	99.7	83.9	70.6	58.8
-40°	400.1	310.4	251.1	211.2	172.1	127.9	110.0	93.9	79.4	66.9	56.1
-42.5°	323.5	268.3	223.7	189.6	148.1	119.0	102.3	87.9	75.0	63.4	53.2
-45°	276.9	231.2	199.5	162.7	125.7	110.0	95.3	81.7	70.3	59.9	50.5
-47.5°	233.7	204.5	171.6	134.8	115.6	101.0	88.1	76.3	65.5	56.3	48.0
-50°	204.5	174.6	140.7	119.0	105.1	92.8	80.9	70.8	61.3	52.6	45.4
-52.5°	171.6	140.7	120.1	107.3	95.6	84.3	74.6	65.1	57.0	49.3	42.8
-55°	134.8	119.0	107.3	96.6	86.2	76.9	68.0	60.1	52.5	46.2	40.0
-57.5°	115.6	105.1	95.6	86.2	77.6	69.5	62.0	55.0	48.7	42.9	37.4
-60°	101.0	92.8	84.3	76.9	69.5	62.7	56.3	50.2	44.9	39.7	34.7
-62.5°	88.1	80.9	74.6	68.0	62.0	56.3	50.7	45.9	41.1	36.5	32.0
-65°	76.3	70.8	65.1	60.1	55.0	50.2	45.9	41.6	37.4	33.3	29.3
-67.5°	65.5	61.3	57.0	52.5	48.7	44.9	41.1	37.4	33.8	30.1	27.0
-70°	56.3	52.6	49.3	46.2	42.9	39.7	36.5	33.3	30.1	27.4	24.6
-72.5°	48.0	45.4	42.8	40.0	37.4	34.7	32.0	29.3	27.0	24.6	22.2
-75°	40.6	38.6	36.4	34.3	32.0	29.8	27.9	25.9	23.9	21.9	20.2
-77.5°	33.7	32.0	30.3	28.8	27.2	25.7	24.1	22.4	20.9	19.6	18.3
-80°	27.4	26.3	25.2	24.0	22.8	21.5	20.5	19.5	18.5	17.4	16.3
-82.5°	21.8	21.1	20.4	19.7	19.0	18.3	17.5	16.7	16.0	15.2	13.5
-85°	17.3	16.9	16.4	16.0	15.5	15.0	13.8	12.7	11.5	10.2	9.0
-87.5°	10.1	9.6	9.1	8.6	8.1	7.5	6.9	6.3	5.7	5.1	4.5
-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):

	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°	3.9	3.2	2.6	2.0	1.3	0.7	0.0
85°	7.8	6.5	5.2	3.9	2.6	1.3	0.0
82.5°	11.6	9.7	7.8	5.9	3.9	2.0	0.0
80°	15.2	12.9	10.4	7.8	5.2	2.6	0.0
77.5°	16.9	15.5	12.9	9.7	6.5	3.2	0.0
75°	18.5	16.9	15.2	11.6	7.8	3.9	0.0
72.5°	20.2	18.3	16.3	13.5	9.0	4.5	0.0
70°	21.9	19.6	17.4	15.2	10.2	5.1	0.0
67.5°	23.9	20.9	18.5	16.0	11.5	5.7	0.0
65°	25.9	22.4	19.5	16.7	12.7	6.3	0.0
62.5°	27.9	24.1	20.5	17.5	13.8	6.9	0.0
60°	29.8	25.7	21.5	18.3	15.0	7.5	0.0
57.5°	32.0	27.2	22.8	19.0	15.5	8.1	0.0
55°	34.3	28.8	24.0	19.7	16.0	8.6	0.0
52.5°	36.4	30.3	25.2	20.4	16.4	9.1	0.0
50°	38.6	32.0	26.3	21.1	16.9	9.6	0.0
47.5°	40.6	33.7	27.4	21.8	17.3	10.1	0.0
45°	42.7	35.4	28.5	22.6	17.7	10.6	0.0
42.5°	44.8	36.9	29.5	23.4	18.1	11.1	0.0
40°	46.7	38.4	30.6	24.1	18.5	11.5	0.0
37.5°	48.6	39.8	31.7	24.8	18.9	11.9	0.0
35°	50.3	41.3	32.8	25.4	19.2	12.3	0.0
32.5°	52.1	42.6	33.8	26.0	19.5	12.6	0.0
30°	54.1	43.9	34.7	26.6	19.8	13.0	0.0
27.5°	55.9	45.1	35.6	27.1	20.1	13.3	0.0
25°	57.5	46.2	36.4	27.6	20.4	13.6	0.0
22.5°	59.0	47.2	37.1	28.1	20.6	13.9	0.0
20°	60.4	48.1	37.8	28.5	20.8	14.1	0.0
17.5°	61.6	48.9	38.4	28.8	21.0	14.3	0.0
15°	62.7	49.6	38.9	29.1	21.1	14.5	0.0
12.5°	63.5	50.2	39.3	29.4	21.3	14.6	0.0
10°	64.3	50.6	39.7	29.6	21.4	14.8	0.0
7.5°	64.9	51.0	39.9	29.8	21.5	14.9	0.0
5°	65.3	51.3	40.1	29.9	21.5	14.9	0.0
2.5°	65.5	51.4	40.3	30.0	21.6	15.0	0.0
0°	65.6	51.5	40.3	30.0	21.6	15.0	0.0
-2.5°	65.5	51.4	40.3	30.0	21.6	15.0	0.0
-5°	65.3	51.3	40.1	29.9	21.5	14.9	0.0
-7.5°	64.9	51.0	39.9	29.8	21.5	14.9	0.0
-10°	64.3	50.6	39.7	29.6	21.4	14.8	0.0
-12.5°	63.5	50.2	39.3	29.4	21.3	14.6	0.0
-15°	62.7	49.6	38.9	29.1	21.1	14.5	0.0
-17.5°	61.6	48.9	38.4	28.8	21.0	14.3	0.0
-20°	60.4	48.1	37.8	28.5	20.8	14.1	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	59.0	47.2	37.1	28.1	20.6	13.9	0.0
-25°	57.5	46.2	36.4	27.6	20.4	13.6	0.0
-27.5°	55.9	45.1	35.6	27.1	20.1	13.3	0.0
-30°	54.1	43.9	34.7	26.6	19.8	13.0	0.0
-32.5°	52.1	42.6	33.8	26.0	19.5	12.6	0.0
-35°	50.3	41.3	32.8	25.4	19.2	12.3	0.0
-37.5°	48.6	39.8	31.7	24.8	18.9	11.9	0.0
-40°	46.7	38.4	30.6	24.1	18.5	11.5	0.0
-42.5°	44.8	36.9	29.5	23.4	18.1	11.1	0.0
-45°	42.7	35.4	28.5	22.6	17.7	10.6	0.0
-47.5°	40.6	33.7	27.4	21.8	17.3	10.1	0.0
-50°	38.6	32.0	26.3	21.1	16.9	9.6	0.0
-52.5°	36.4	30.3	25.2	20.4	16.4	9.1	0.0
-55°	34.3	28.8	24.0	19.7	16.0	8.6	0.0
-57.5°	32.0	27.2	22.8	19.0	15.5	8.1	0.0
-60°	29.8	25.7	21.5	18.3	15.0	7.5	0.0
-62.5°	27.9	24.1	20.5	17.5	13.8	6.9	0.0
-65°	25.9	22.4	19.5	16.7	12.7	6.3	0.0
-67.5°	23.9	20.9	18.5	16.0	11.5	5.7	0.0
-70°	21.9	19.6	17.4	15.2	10.2	5.1	0.0
-72.5°	20.2	18.3	16.3	13.5	9.0	4.5	0.0
-75°	18.5	16.9	15.2	11.6	7.8	3.9	0.0
-77.5°	16.9	15.5	12.9	9.7	6.5	3.2	0.0
-80°	15.2	12.9	10.4	7.8	5.2	2.6	0.0
-82.5°	11.6	9.7	7.8	5.9	3.9	2.0	0.0
-85°	7.8	6.5	5.2	3.9	2.6	1.3	0.0
-87.5°	3.9	3.2	2.6	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)