

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: P699940 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 8/10/2023

Test Information

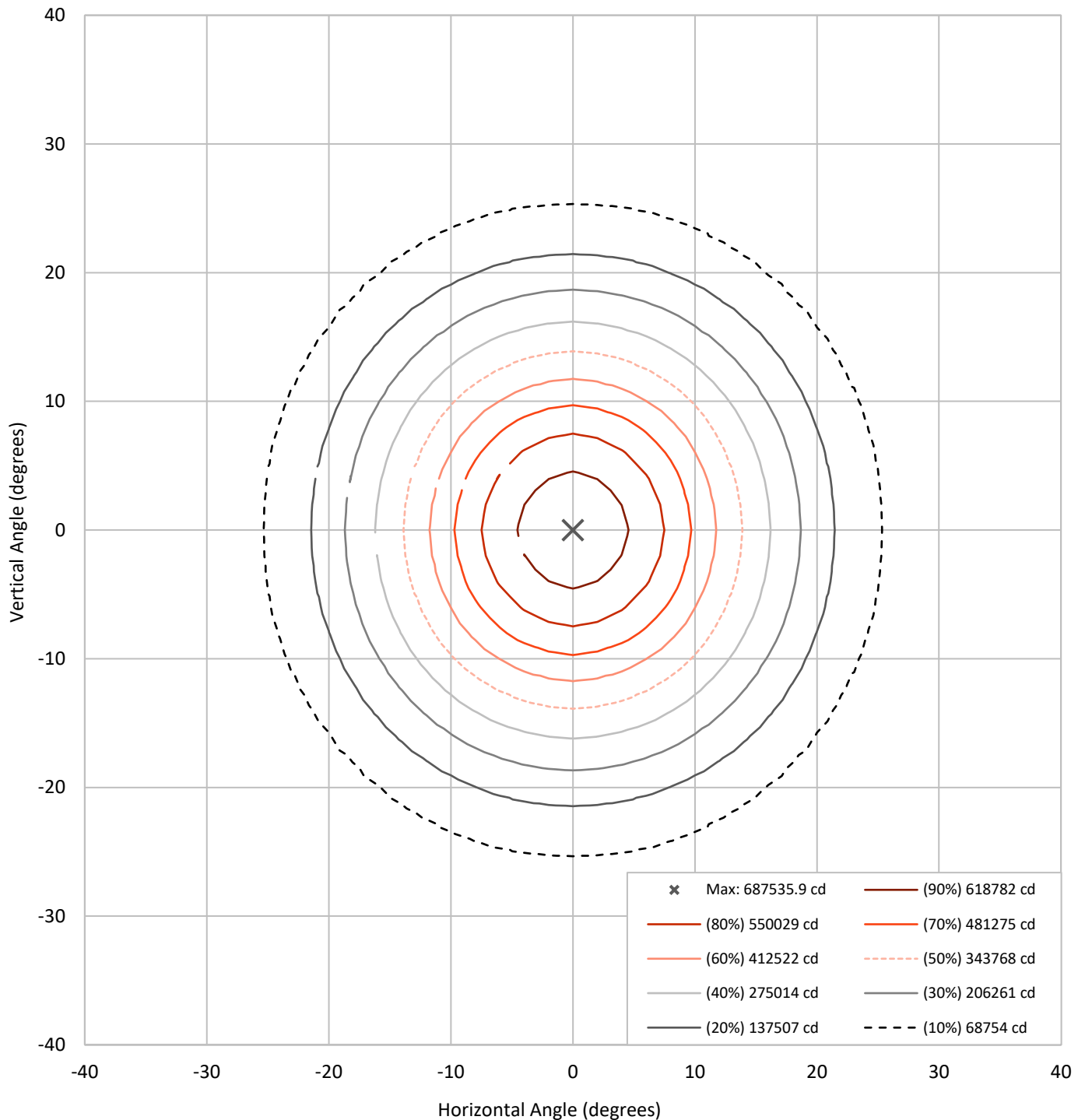
Test Method: LM-79-08
Report Number: P699940 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-11)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200R-40-70-3S-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 4000K, 70 CRI LEDS AND 3S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	200564.9 lumens	Max Intensity:	687535.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	161.1 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	27.8°H x 27.8°V	Field Angle (10%):	50.4°H x 50.4°V
Beam Lumens:	88168.9 lumens	Field Lumens:	164045.7 lumens
Beam Efficiency:	44.0%	Field Efficiency:	81.8%
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





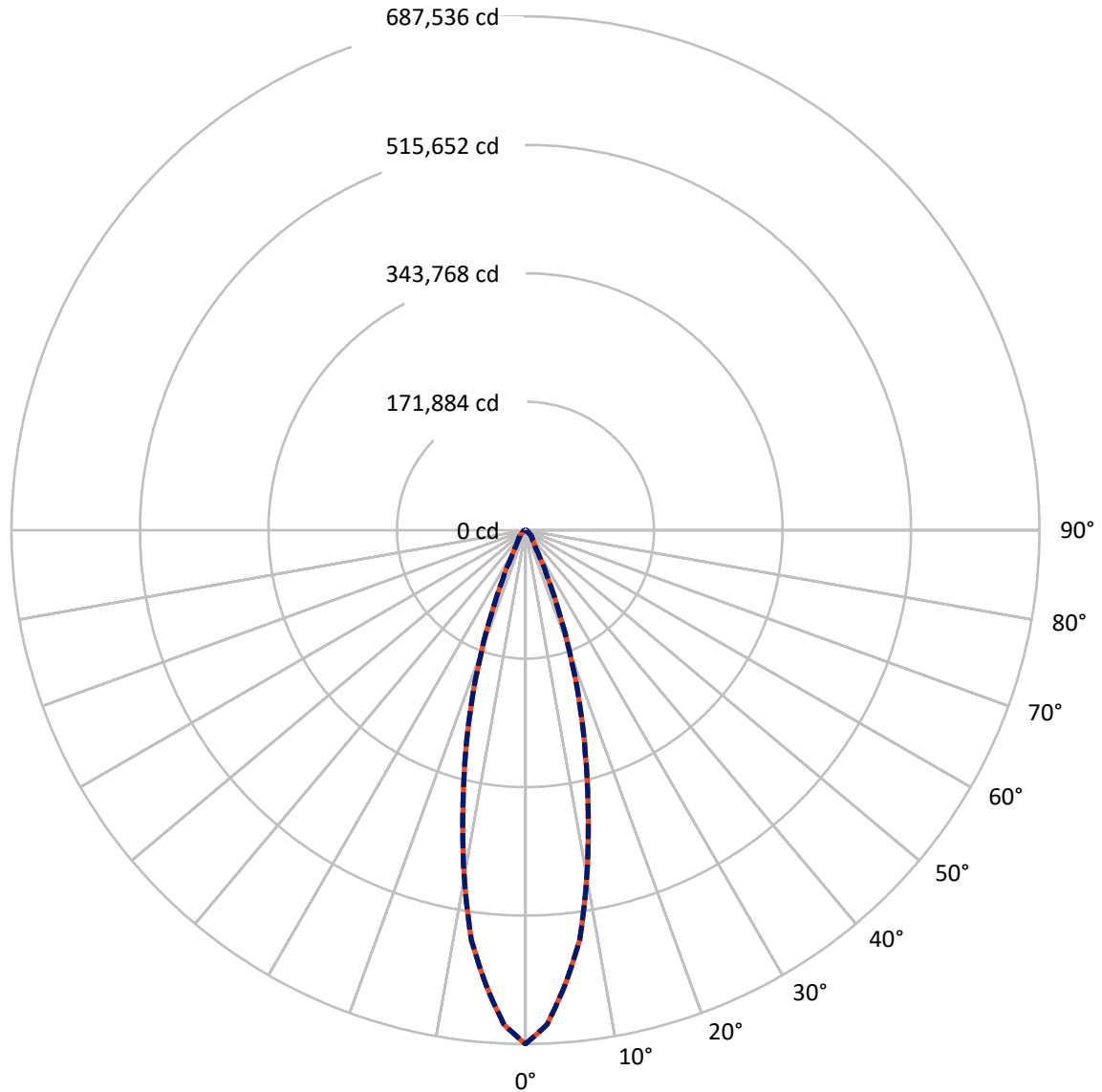
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Lumen Table

90	0.4	2.5		9.3		22.4		29.1		22.4		9.3		2.5		0.4
80	0.4	2.5		9.3		22.4		29.1		22.4		9.3		2.5		0.4
70	1.1	1.4	5.6	15.3	29.0	43.6	55.8	62.6	62.6	55.8	43.6	29.0	15.3	5.6	1.4	1.1
60		4.2	17.3	40.0	69.3	100.1	125.6	139.8	139.8	125.6	100.1	69.3	40.0	17.3	4.2	
50	3.1	9.4	32.7	70.7	119.8	188.7	265.1	309.6	309.6	265.1	188.7	119.8	70.7	32.7	9.4	3.1
40		15.4	49.0	103.7	208.8	342.5	464.3	563.6	563.6	464.3	342.5	208.8	103.7	49.0	15.4	
30	6.5	21.0	64.1	148.4	310.1	537.5	1189.9	2228.9	2228.9	1189.9	537.5	310.1	148.4	64.1	21.0	6.5
20		25.2	75.4	196.0	395.4	1122.5	4387.1	8553.3	8553.3	4387.1	1122.5	395.4	196.0	75.4	25.2	
10	8.0	27.4	81.5	221.8	466.5	2048.8	8319.0	16204.7	16204.7	8319.0	2048.8	466.5	221.8	81.5	27.4	8.0
0		27.4	81.5	221.8	466.5	2048.8	8319.0	16204.7	16204.7	8319.0	2048.8	466.5	221.8	81.5	27.4	
-10	6.5	25.2	75.4	196.0	395.4	1122.5	4387.1	8553.3	8553.3	4387.1	1122.5	395.4	196.0	75.4	25.2	6.5
-20		21.0	64.1	148.4	310.1	537.5	1189.9	2228.9	2228.9	1189.9	537.5	310.1	148.4	64.1	21.0	
-30	3.1	15.4	49.0	103.7	208.8	342.5	464.3	563.6	563.6	464.3	342.5	208.8	103.7	49.0	15.4	3.1
-40		9.4	32.7	70.7	119.8	188.7	265.1	309.6	309.6	265.1	188.7	119.8	70.7	32.7	9.4	
-50	1.1	4.2	17.3	40.0	69.3	100.1	125.6	139.8	139.8	125.6	100.1	69.3	40.0	17.3	4.2	1.1
-60		1.4	5.6	15.3	29.0	43.6	55.8	62.6	62.6	55.8	43.6	29.0	15.3	5.6	1.4	
-70	0.4	2.5		9.3		22.4		29.1		22.4		9.3		2.5		0.4
-80		2.5		9.3		22.4		29.1		22.4		9.3		2.5		
-90	0.4	2.5		9.3		22.4		29.1		22.4		9.3		2.5		0.4

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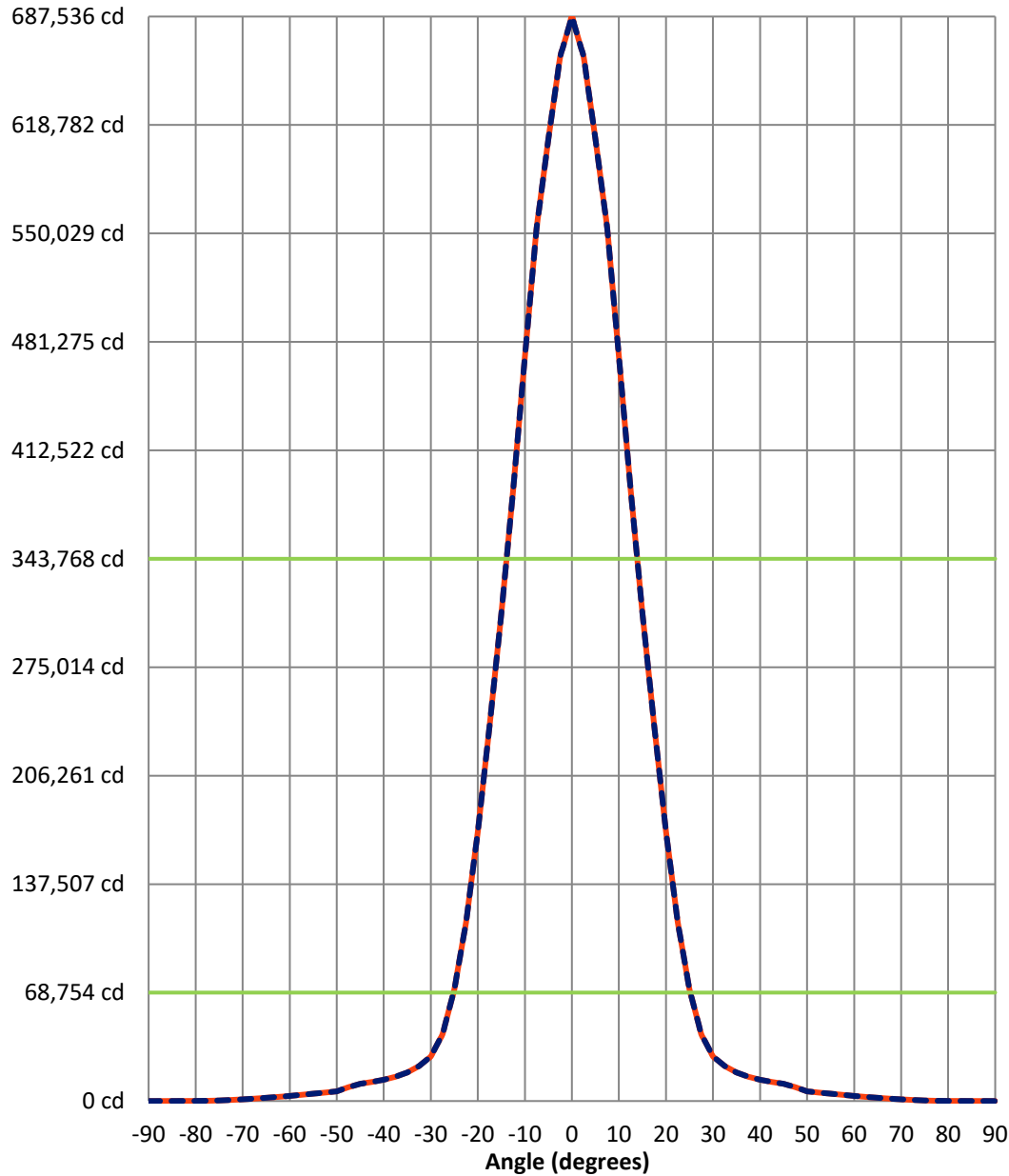
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 27.8°
 V Angle: 27.8°
 Lumens: 88168.9
 Efficiency: 44.0%

Field:
 H Angle: 50.4°
 V Angle: 50.4°
 Lumens: 164045.7
 Efficiency: 81.8%

Spill:
 Lumens: 36519.2
 Efficiency: 18.2%

— 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	0.9	1.9	2.8	3.7	4.7	5.6	6.5	7.4	8.3	9.1
85°	0.0	1.9	3.8	5.6	7.5	9.3	11.2	13.0	14.8	16.5	18.2
82.5°	0.0	2.8	5.6	8.4	11.2	14.0	16.7	19.4	22.0	23.8	25.7
80°	0.0	3.7	7.5	11.2	14.9	18.6	22.1	24.6	27.2	29.7	32.1
77.5°	0.0	4.7	9.3	14.0	18.6	22.7	26.0	29.2	32.4	35.5	39.0
75°	0.0	5.6	11.2	16.7	22.1	26.0	29.9	33.7	37.6	42.6	47.5
72.5°	0.0	6.5	13.0	19.4	24.6	29.2	33.7	38.5	44.4	50.2	55.9
70°	0.0	7.4	14.8	22.0	27.2	32.4	37.6	44.4	51.1	57.7	65.5
67.5°	0.0	8.3	16.5	23.8	29.7	35.5	42.6	50.2	57.7	66.6	75.4
65°	0.0	9.1	18.2	25.7	32.1	39.0	47.5	55.9	65.5	75.4	90.9
62.5°	0.0	10.0	19.9	27.5	34.5	43.0	52.3	62.3	73.2	87.5	119.8
60°	0.0	10.8	21.6	29.3	36.9	46.9	57.0	68.8	80.7	113.1	148.2
57.5°	0.0	11.6	22.7	31.0	39.9	50.8	62.4	75.3	99.9	138.2	208.6
55°	0.0	12.4	23.9	32.6	42.9	54.5	67.7	81.5	121.6	172.0	282.8
52.5°	0.0	13.1	24.9	34.3	45.8	58.2	73.0	98.6	142.7	237.1	355.2
50°	0.0	13.9	26.0	35.8	48.6	62.4	78.0	116.5	173.6	300.2	461.8
47.5°	0.0	14.6	27.0	37.5	51.2	66.5	84.3	133.8	227.9	361.3	569.2
45°	0.0	15.3	28.0	39.4	53.8	70.4	98.6	150.5	280.1	453.6	672.9
42.5°	0.0	15.9	28.9	41.3	56.3	74.1	112.2	182.6	330.3	543.1	791.7
40°	0.0	16.5	29.8	43.1	58.9	77.7	125.3	224.4	387.2	628.6	908.5
37.5°	0.0	17.1	30.6	44.7	61.6	81.1	137.7	264.2	459.4	715.2	1019.9
35°	0.0	17.7	31.4	46.3	64.2	88.6	149.4	301.9	527.7	809.8	1131.5
32.5°	0.0	18.2	32.2	47.8	66.6	97.7	166.1	337.3	592.1	898.9	1245.9
30°	0.0	18.7	32.9	49.2	68.9	106.3	194.4	375.0	652.3	982.5	1353.2
27.5°	0.0	19.2	33.5	50.5	70.9	114.3	220.7	423.7	713.0	1060.1	1453.1
25°	0.0	19.6	34.1	51.7	72.9	121.6	244.8	468.6	776.2	1138.7	1545.8
22.5°	0.0	20.0	34.7	52.8	74.6	128.2	266.9	509.5	833.9	1213.7	1642.5
20°	0.0	20.3	35.1	53.8	76.2	134.3	286.8	546.4	885.9	1281.5	1729.9
17.5°	0.0	20.6	35.6	54.6	77.6	139.6	304.4	579.1	932.1	1341.7	1807.5
15°	0.0	20.9	35.9	55.4	78.8	144.2	319.8	607.7	972.3	1394.2	1875.3
12.5°	0.0	21.1	36.3	56.0	79.8	148.2	332.8	631.9	1006.6	1438.9	1933.1
10°	0.0	21.3	36.5	56.6	80.7	151.4	343.5	651.9	1034.8	1475.7	1980.5
7.5°	0.0	21.4	36.7	57.0	81.3	153.9	351.9	667.4	1056.7	1504.4	2017.6
5°	0.0	21.5	36.9	57.3	81.8	155.8	357.9	678.6	1072.5	1524.9	2044.2
2.5°	0.0	21.6	37.0	57.4	82.1	156.8	361.5	685.3	1081.9	1537.3	2060.2
0°	0.0	21.6	37.0	57.4	82.1	156.8	361.5	685.3	1081.9	1537.3	2060.2
-2.5°	0.0	21.5	36.9	57.3	81.8	155.8	357.9	678.6	1072.5	1524.9	2044.2
-5°	0.0	21.4	36.7	57.0	81.3	153.9	351.9	667.4	1056.7	1504.4	2017.6
-7.5°	0.0	21.3	36.5	56.6	80.7	151.4	343.5	651.9	1034.8	1475.7	1980.5
-10°	0.0	21.1	36.3	56.0	79.8	148.2	332.8	631.9	1006.6	1438.9	1933.1
-12.5°	0.0	20.9	35.9	55.4	78.8	144.2	319.8	607.7	972.3	1394.2	1875.3
-15°	0.0	20.6	35.6	54.6	77.6	139.6	304.4	579.1	932.1	1341.7	1807.5
-17.5°	0.0	20.3	35.1	53.8	76.2	134.3	286.8	546.4	885.9	1281.5	1729.9
-20°	0.0	20.3	35.1	53.8	76.2	134.3	286.8	546.4	885.9	1281.5	1729.9



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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	20.0	34.7	52.8	74.6	128.2	266.9	509.5	833.9	1213.7	1642.5
-25°	0.0	19.6	34.1	51.7	72.9	121.6	244.8	468.6	776.2	1138.7	1545.8
-27.5°	0.0	19.2	33.5	50.5	70.9	114.3	220.7	423.7	713.0	1060.1	1453.1
-30°	0.0	18.7	32.9	49.2	68.9	106.3	194.4	375.0	652.3	982.5	1353.2
-32.5°	0.0	18.2	32.2	47.8	66.6	97.7	166.1	337.3	592.1	898.9	1245.9
-35°	0.0	17.7	31.4	46.3	64.2	88.6	149.4	301.9	527.7	809.8	1131.5
-37.5°	0.0	17.1	30.6	44.7	61.6	81.1	137.7	264.2	459.4	715.2	1019.9
-40°	0.0	16.5	29.8	43.1	58.9	77.7	125.3	224.4	387.2	628.6	908.5
-42.5°	0.0	15.9	28.9	41.3	56.3	74.1	112.2	182.6	330.3	543.1	791.7
-45°	0.0	15.3	28.0	39.4	53.8	70.4	98.6	150.5	280.1	453.6	672.9
-47.5°	0.0	14.6	27.0	37.5	51.2	66.5	84.3	133.8	227.9	361.3	569.2
-50°	0.0	13.9	26.0	35.8	48.6	62.4	78.0	116.5	173.6	300.2	461.8
-52.5°	0.0	13.1	24.9	34.3	45.8	58.2	73.0	98.6	142.7	237.1	355.2
-55°	0.0	12.4	23.9	32.6	42.9	54.5	67.7	81.5	121.6	172.0	282.8
-57.5°	0.0	11.6	22.7	31.0	39.9	50.8	62.4	75.3	99.9	138.2	208.6
-60°	0.0	10.8	21.6	29.3	36.9	46.9	57.0	68.8	80.7	113.1	148.2
-62.5°	0.0	10.0	19.9	27.5	34.5	43.0	52.3	62.3	73.2	87.5	119.8
-65°	0.0	9.1	18.2	25.7	32.1	39.0	47.5	55.9	65.5	75.4	90.9
-67.5°	0.0	8.3	16.5	23.8	29.7	35.5	42.6	50.2	57.7	66.6	75.4
-70°	0.0	7.4	14.8	22.0	27.2	32.4	37.6	44.4	51.1	57.7	65.5
-72.5°	0.0	6.5	13.0	19.4	24.6	29.2	33.7	38.5	44.4	50.2	55.9
-75°	0.0	5.6	11.2	16.7	22.1	26.0	29.9	33.7	37.6	42.6	47.5
-77.5°	0.0	4.7	9.3	14.0	18.6	22.7	26.0	29.2	32.4	35.5	39.0
-80°	0.0	3.7	7.5	11.2	14.9	18.6	22.1	24.6	27.2	29.7	32.1
-82.5°	0.0	2.8	5.6	8.4	11.2	14.0	16.7	19.4	22.0	23.8	25.7
-85°	0.0	1.9	3.8	5.6	7.5	9.3	11.2	13.0	14.8	16.5	18.2
-87.5°	0.0	0.9	1.9	2.8	3.7	4.7	5.6	6.5	7.4	8.3	9.1
-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):

	-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°	10.0	10.8	11.6	12.4	13.1	13.9	14.6	15.3	15.9	16.5	17.1
85°	19.9	21.6	22.7	23.9	24.9	26.0	27.0	28.0	28.9	29.8	30.6
82.5°	27.5	29.3	31.0	32.6	34.3	35.8	37.5	39.4	41.3	43.1	44.7
80°	34.5	36.9	39.9	42.9	45.8	48.6	51.2	53.8	56.3	58.9	61.6
77.5°	43.0	46.9	50.8	54.5	58.2	62.4	66.5	70.4	74.1	77.7	81.1
75°	52.3	57.0	62.4	67.7	73.0	78.0	84.3	98.6	112.2	125.3	137.7
72.5°	62.3	68.8	75.3	81.5	98.6	116.5	133.8	150.5	182.6	224.4	264.2
70°	73.2	80.7	99.9	121.6	142.7	173.6	227.9	280.1	330.3	387.2	459.4
67.5°	87.5	113.1	138.2	172.0	237.1	300.2	361.3	453.6	543.1	628.6	715.2
65°	119.8	148.2	208.6	282.8	355.2	461.8	569.2	672.9	791.7	908.5	1019.9
62.5°	151.5	227.0	310.5	409.2	534.9	657.1	795.2	935.1	1069.8	1215.6	1357.0
60°	227.0	319.8	438.6	579.1	722.6	885.9	1044.2	1213.7	1382.9	1545.8	1723.9
57.5°	310.5	438.6	593.9	759.0	940.7	1122.4	1319.5	1510.2	1716.9	1919.8	2116.2
55°	409.2	579.1	759.0	959.1	1164.8	1383.5	1604.1	1840.7	2069.2	2299.2	2519.4
52.5°	534.9	722.6	940.7	1164.8	1404.9	1653.7	1915.6	2174.5	2431.7	2688.1	2957.7
50°	657.1	885.9	1122.4	1383.5	1653.7	1940.7	2227.5	2511.9	2810.6	3112.0	3427.4
47.5°	795.2	1044.2	1319.5	1604.1	1915.6	2227.5	2538.8	2872.3	3205.6	3573.1	3931.5
45°	935.1	1213.7	1510.2	1840.7	2174.5	2511.9	2872.3	3236.9	3646.6	4042.8	4423.9
42.5°	1069.8	1382.9	1716.9	2069.2	2431.7	2810.6	3205.6	3646.6	4080.1	4499.6	4895.5
40°	1215.6	1545.8	1919.8	2299.2	2688.1	3112.0	3573.1	4042.8	4499.6	4932.6	5344.8
37.5°	1357.0	1723.9	2116.2	2519.4	2957.7	3427.4	3931.5	4423.9	4895.5	5344.8	5843.2
35°	1491.2	1893.2	2309.6	2744.8	3215.0	3747.5	4273.7	4784.9	5269.3	5798.7	6720.5
32.5°	1629.3	2053.3	2492.7	2970.5	3494.0	4051.6	4599.6	5119.7	5666.1	6418.5	8268.4
30°	1765.9	2210.1	2671.6	3183.1	3760.4	4338.2	4898.6	5448.0	6056.9	7806.5	9564.7
27.5°	1893.2	2356.9	2854.1	3404.6	4009.6	4607.0	5176.6	5791.8	7047.3	9057.5	10697.5
25°	2010.8	2492.7	3022.9	3617.6	4240.4	4849.6	5446.2	6112.6	8194.6	10052.0	11394.3
22.5°	2120.8	2617.3	3177.6	3813.1	4452.5	5070.3	5720.8	6992.0	9168.6	10955.7	11946.2
20°	2222.5	2744.8	3330.4	3990.2	4644.9	5270.9	5970.8	7891.4	9953.1	11426.6	12513.2
17.5°	2313.1	2858.4	3474.9	4147.9	4811.2	5463.3	6279.7	8699.0	10659.0	11851.4	13054.2
15°	2392.2	2957.7	3601.3	4286.0	4956.0	5644.6	6935.2	9292.8	11126.7	12246.4	13538.7
12.5°	2459.5	3042.4	3709.2	4403.9	5079.6	5799.7	7496.9	9786.0	11424.8	12628.0	14098.6
10°	2515.0	3112.0	3798.0	4501.1	5181.7	5927.9	7961.3	10194.4	11672.1	12945.0	14564.8
7.5°	2558.3	3166.5	3867.5	4577.2	5261.6	6028.3	8325.7	10515.1	11866.6	13194.8	14932.7
5°	2589.3	3205.6	3917.3	4631.8	5319.0	6100.4	8587.7	10745.9	12006.7	13374.9	15198.5
2.5°	2608.0	3229.1	3947.3	4664.6	5353.6	6143.9	8745.6	10885.1	12091.2	13483.7	15359.1
0°	2614.2	3236.9	3957.3	4675.6	5365.1	6158.4	8798.3	10931.6	12119.5	13520.1	15412.9
-2.5°	2608.0	3229.1	3947.3	4664.6	5353.6	6143.9	8745.6	10885.1	12091.2	13483.7	15359.1
-5°	2589.3	3205.6	3917.3	4631.8	5319.0	6100.4	8587.7	10745.9	12006.7	13374.9	15198.5
-7.5°	2558.3	3166.5	3867.5	4577.2	5261.6	6028.3	8325.7	10515.1	11866.6	13194.8	14932.7
-10°	2515.0	3112.0	3798.0	4501.1	5181.7	5927.9	7961.3	10194.4	11672.1	12945.0	14564.8
-12.5°	2459.5	3042.4	3709.2	4403.9	5079.6	5799.7	7496.9	9786.0	11424.8	12628.0	14098.6
-15°	2392.2	2957.7	3601.3	4286.0	4956.0	5644.6	6935.2	9292.8	11126.7	12246.4	13538.7
-17.5°	2313.1	2858.4	3474.9	4147.9	4811.2	5463.3	6279.7	8699.0	10659.0	11851.4	13054.2
-20°	2222.5	2744.8	3330.4	3990.2	4644.9	5270.9	5970.8	7891.4	9953.1	11426.6	12513.2



REPORT NUMBER: P699940 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-3S-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	2120.8	2617.3	3177.6	3813.1	4452.5	5070.3	5720.8	6992.0	9168.6	10955.7	11946.2
-25°	2010.8	2492.7	3022.9	3617.6	4240.4	4849.6	5446.2	6112.6	8194.6	10052.0	11394.3
-27.5°	1893.2	2356.9	2854.1	3404.6	4009.6	4607.0	5176.6	5791.8	7047.3	9057.5	10697.5
-30°	1765.9	2210.1	2671.6	3183.1	3760.4	4338.2	4898.6	5448.0	6056.9	7806.5	9564.7
-32.5°	1629.3	2053.3	2492.7	2970.5	3494.0	4051.6	4599.6	5119.7	5666.1	6418.5	8268.4
-35°	1491.2	1893.2	2309.6	2744.8	3215.0	3747.5	4273.7	4784.9	5269.3	5798.7	6720.5
-37.5°	1357.0	1723.9	2116.2	2519.4	2957.7	3427.4	3931.5	4423.9	4895.5	5344.8	5843.2
-40°	1215.6	1545.8	1919.8	2299.2	2688.1	3112.0	3573.1	4042.8	4499.6	4932.6	5344.8
-42.5°	1069.8	1382.9	1716.9	2069.2	2431.7	2810.6	3205.6	3646.6	4080.1	4499.6	4895.5
-45°	935.1	1213.7	1510.2	1840.7	2174.5	2511.9	2872.3	3236.9	3646.6	4042.8	4423.9
-47.5°	795.2	1044.2	1319.5	1604.1	1915.6	2227.5	2538.8	2872.3	3205.6	3573.1	3931.5
-50°	657.1	885.9	1122.4	1383.5	1653.7	1940.7	2227.5	2511.9	2810.6	3112.0	3427.4
-52.5°	534.9	722.6	940.7	1164.8	1404.9	1653.7	1915.6	2174.5	2431.7	2688.1	2957.7
-55°	409.2	579.1	759.0	959.1	1164.8	1383.5	1604.1	1840.7	2069.2	2299.2	2519.4
-57.5°	310.5	438.6	593.9	759.0	940.7	1122.4	1319.5	1510.2	1716.9	1919.8	2116.2
-60°	227.0	319.8	438.6	579.1	722.6	885.9	1044.2	1213.7	1382.9	1545.8	1723.9
-62.5°	151.5	227.0	310.5	409.2	534.9	657.1	795.2	935.1	1069.8	1215.6	1357.0
-65°	119.8	148.2	208.6	282.8	355.2	461.8	569.2	672.9	791.7	908.5	1019.9
-67.5°	87.5	113.1	138.2	172.0	237.1	300.2	361.3	453.6	543.1	628.6	715.2
-70°	73.2	80.7	99.9	121.6	142.7	173.6	227.9	280.1	330.3	387.2	459.4
-72.5°	62.3	68.8	75.3	81.5	98.6	116.5	133.8	150.5	182.6	224.4	264.2
-75°	52.3	57.0	62.4	67.7	73.0	78.0	84.3	98.6	112.2	125.3	137.7
-77.5°	43.0	46.9	50.8	54.5	58.2	62.4	66.5	70.4	74.1	77.7	81.1
-80°	34.5	36.9	39.9	42.9	45.8	48.6	51.2	53.8	56.3	58.9	61.6
-82.5°	27.5	29.3	31.0	32.6	34.3	35.8	37.5	39.4	41.3	43.1	44.7
-85°	19.9	21.6	22.7	23.9	24.9	26.0	27.0	28.0	28.9	29.8	30.6
-87.5°	10.0	10.8	11.6	12.4	13.1	13.9	14.6	15.3	15.9	16.5	17.1
-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: P699940 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-3S-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°	17.7	18.2	18.7	19.2	19.6	20.0	20.3	20.6	20.9	21.1	21.3
85°	31.4	32.2	32.9	33.5	34.1	34.7	35.1	35.6	35.9	36.3	36.5
82.5°	46.3	47.8	49.2	50.5	51.7	52.8	53.8	54.6	55.4	56.0	56.6
80°	64.2	66.6	68.9	70.9	72.9	74.6	76.2	77.6	78.8	79.8	80.7
77.5°	88.6	97.7	106.3	114.3	121.6	128.2	134.3	139.6	144.2	148.2	151.4
75°	149.4	166.1	194.4	220.7	244.8	266.9	286.8	304.4	319.8	332.8	343.5
72.5°	301.9	337.3	375.0	423.7	468.6	509.5	546.4	579.1	607.7	631.9	651.9
70°	527.7	592.1	652.3	713.0	776.2	833.9	885.9	932.1	972.3	1006.6	1034.8
67.5°	809.8	898.9	982.5	1060.1	1138.7	1213.7	1281.5	1341.7	1394.2	1438.9	1475.7
65°	1131.5	1245.9	1353.2	1453.1	1545.8	1642.5	1729.9	1807.5	1875.3	1933.1	1980.5
62.5°	1491.2	1629.3	1765.9	1893.2	2010.8	2120.8	2222.5	2313.1	2392.2	2459.5	2515.0
60°	1893.2	2053.3	2210.1	2356.9	2492.7	2617.3	2744.8	2858.4	2957.7	3042.4	3112.0
57.5°	2309.6	2492.7	2671.6	2854.1	3022.9	3177.6	3330.4	3474.9	3601.3	3709.2	3798.0
55°	2744.8	2970.5	3183.1	3404.6	3617.6	3813.1	3990.2	4147.9	4286.0	4403.9	4501.1
52.5°	3215.0	3494.0	3760.4	4009.6	4240.4	4452.5	4644.9	4811.2	4956.0	5079.6	5181.7
50°	3747.5	4051.6	4338.2	4607.0	4849.6	5070.3	5270.9	5463.3	5644.6	5799.7	5927.9
47.5°	4273.7	4599.6	4898.6	5176.6	5446.2	5720.8	5970.8	6279.7	6935.2	7496.9	7961.3
45°	4784.9	5119.7	5448.0	5791.8	6112.6	6992.0	7891.4	8699.0	9292.8	9786.0	10194.4
42.5°	5269.3	5666.1	6056.9	7047.3	8194.6	9168.6	9953.1	10659.0	11126.7	11424.8	11672.1
40°	5798.7	6418.5	7806.5	9057.5	10052.0	10955.7	11426.6	11851.4	12246.4	12628.0	12945.0
37.5°	6720.5	8268.4	9564.7	10697.5	11394.3	11946.2	12513.2	13054.2	13538.7	14098.6	14564.8
35°	8423.5	9821.2	11020.3	11692.7	12364.1	13062.2	13771.1	14560.5	15262.7	16068.2	16794.8
32.5°	9821.2	11093.9	11843.8	12638.2	13436.7	14418.5	15354.2	16548.6	17637.4	18813.7	20000.6
30°	11020.3	11843.8	12730.4	13664.1	14814.8	16106.3	17545.9	19231.7	20999.8	22724.5	24666.8
27.5°	11692.7	12638.2	13664.1	14948.3	16501.4	18176.6	20493.1	22844.5	25717.4	28237.4	33185.6
25°	12364.1	13436.7	14814.8	16501.4	18485.9	21136.1	24342.9	27786.8	34450.1	40872.8	50269.9
22.5°	13062.2	14418.5	16106.3	18176.6	21136.1	24849.5	29640.3	38312.6	50068.5	64163.2	79005.7
20°	13771.1	15354.2	17545.9	20493.1	24342.9	29640.3	39622.6	55587.3	73916.6	97241.3	118757.1
17.5°	14560.5	16548.6	19231.7	22844.5	27786.8	38312.6	55587.3	78374.9	106695.4	138926.2	169131.1
15°	15262.7	17637.4	20999.8	25717.4	34450.1	50068.5	73916.6	106695.4	145844.2	186124.4	225553.5
12.5°	16068.2	18813.7	22724.5	28237.4	40872.8	64163.2	97241.3	138926.2	186124.4	235130.0	281854.0
10°	16794.8	20000.6	24666.8	33185.6	50269.9	79005.7	118757.1	169131.1	225553.5	281854.0	337257.6
7.5°	17369.6	20942.1	26212.6	37152.3	59051.7	93708.7	140892.4	197935.9	259842.6	323378.7	387915.4
5°	17785.5	21624.8	27336.7	40046.9	65488.6	104548.1	157337.7	219787.1	286537.6	357681.9	430012.9
2.5°	18037.3	22038.8	28019.6	41809.6	69420.8	111198.0	167485.4	233381.3	303345.5	379574.5	460721.8
0°	18121.6	22177.5	28248.6	42401.6	70743.7	113440.3	170917.8	238000.2	309095.4	387197.7	471757.4
-2.5°	18037.3	22038.8	28019.6	41809.6	69420.8	111198.0	167485.4	233381.3	303345.5	379574.5	460721.8
-5°	17785.5	21624.8	27336.7	40046.9	65488.6	104548.1	157337.7	219787.1	286537.6	357681.9	430012.9
-7.5°	17369.6	20942.1	26212.6	37152.3	59051.7	93708.7	140892.4	197935.9	259842.6	323378.7	387915.4
-10°	16794.8	20000.6	24666.8	33185.6	50269.9	79005.7	118757.1	169131.1	225553.5	281854.0	337257.6
-12.5°	16068.2	18813.7	22724.5	28237.4	40872.8	64163.2	97241.3	138926.2	186124.4	235130.0	281854.0
-15°	15262.7	17637.4	20999.8	25717.4	34450.1	50068.5	73916.6	106695.4	145844.2	186124.4	225553.5
-17.5°	14560.5	16548.6	19231.7	22844.5	27786.8	38312.6	55587.3	78374.9	106695.4	138926.2	169131.1
-20°	13771.1	15354.2	17545.9	20493.1	24342.9	29640.3	39622.6	55587.3	73916.6	97241.3	118757.1



REPORT NUMBER: P699940 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-3S-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	13062.2	14418.5	16106.3	18176.6	21136.1	24849.5	29640.3	38312.6	50068.5	64163.2	79005.7
-25°	12364.1	13436.7	14814.8	16501.4	18485.9	21136.1	24342.9	27786.8	34450.1	40872.8	50269.9
-27.5°	11692.7	12638.2	13664.1	14948.3	16501.4	18176.6	20493.1	22844.5	25717.4	28237.4	33185.6
-30°	11020.3	11843.8	12730.4	13664.1	14814.8	16106.3	17545.9	19231.7	20999.8	22724.5	24666.8
-32.5°	9821.2	11093.9	11843.8	12638.2	13436.7	14418.5	15354.2	16548.6	17637.4	18813.7	20000.6
-35°	8423.5	9821.2	11020.3	11692.7	12364.1	13062.2	13771.1	14560.5	15262.7	16068.2	16794.8
-37.5°	6720.5	8268.4	9564.7	10697.5	11394.3	11946.2	12513.2	13054.2	13538.7	14098.6	14564.8
-40°	5798.7	6418.5	7806.5	9057.5	10052.0	10955.7	11426.6	11851.4	12246.4	12628.0	12945.0
-42.5°	5269.3	5666.1	6056.9	7047.3	8194.6	9168.6	9953.1	10659.0	11126.7	11424.8	11672.1
-45°	4784.9	5119.7	5448.0	5791.8	6112.6	6992.0	7891.4	8699.0	9292.8	9786.0	10194.4
-47.5°	4273.7	4599.6	4898.6	5176.6	5446.2	5720.8	5970.8	6279.7	6935.2	7496.9	7961.3
-50°	3747.5	4051.6	4338.2	4607.0	4849.6	5070.3	5270.9	5463.3	5644.6	5799.7	5927.9
-52.5°	3215.0	3494.0	3760.4	4009.6	4240.4	4452.5	4644.9	4811.2	4956.0	5079.6	5181.7
-55°	2744.8	2970.5	3183.1	3404.6	3617.6	3813.1	3990.2	4147.9	4286.0	4403.9	4501.1
-57.5°	2309.6	2492.7	2671.6	2854.1	3022.9	3177.6	3330.4	3474.9	3601.3	3709.2	3798.0
-60°	1893.2	2053.3	2210.1	2356.9	2492.7	2617.3	2744.8	2858.4	2957.7	3042.4	3112.0
-62.5°	1491.2	1629.3	1765.9	1893.2	2010.8	2120.8	2222.5	2313.1	2392.2	2459.5	2515.0
-65°	1131.5	1245.9	1353.2	1453.1	1545.8	1642.5	1729.9	1807.5	1875.3	1933.1	1980.5
-67.5°	809.8	898.9	982.5	1060.1	1138.7	1213.7	1281.5	1341.7	1394.2	1438.9	1475.7
-70°	527.7	592.1	652.3	713.0	776.2	833.9	885.9	932.1	972.3	1006.6	1034.8
-72.5°	301.9	337.3	375.0	423.7	468.6	509.5	546.4	579.1	607.7	631.9	651.9
-75°	149.4	166.1	194.4	220.7	244.8	266.9	286.8	304.4	319.8	332.8	343.5
-77.5°	88.6	97.7	106.3	114.3	121.6	128.2	134.3	139.6	144.2	148.2	151.4
-80°	64.2	66.6	68.9	70.9	72.9	74.6	76.2	77.6	78.8	79.8	80.7
-82.5°	46.3	47.8	49.2	50.5	51.7	52.8	53.8	54.6	55.4	56.0	56.6
-85°	31.4	32.2	32.9	33.5	34.1	34.7	35.1	35.6	35.9	36.3	36.5
-87.5°	17.7	18.2	18.7	19.2	19.6	20.0	20.3	20.6	20.9	21.1	21.3
-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: P699940 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-3S-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°	21.4	21.5	21.6	21.6	21.6	21.5	21.4	21.3	21.1	20.9	20.6
85°	36.7	36.9	37.0	37.0	37.0	36.9	36.7	36.5	36.3	35.9	35.6
82.5°	57.0	57.3	57.4	57.5	57.4	57.3	57.0	56.6	56.0	55.4	54.6
80°	81.3	81.8	82.1	82.2	82.1	81.8	81.3	80.7	79.8	78.8	77.6
77.5°	153.9	155.8	156.8	157.2	156.8	155.8	153.9	151.4	148.2	144.2	139.6
75°	351.9	357.9	361.5	362.7	361.5	357.9	351.9	343.5	332.8	319.8	304.4
72.5°	667.4	678.6	685.3	687.5	685.3	678.6	667.4	651.9	631.9	607.7	579.1
70°	1056.7	1072.5	1081.9	1085.1	1081.9	1072.5	1056.7	1034.8	1006.6	972.3	932.1
67.5°	1504.4	1524.9	1537.3	1541.4	1537.3	1524.9	1504.4	1475.7	1438.9	1394.2	1341.7
65°	2017.6	2044.2	2060.2	2065.5	2060.2	2044.2	2017.6	1980.5	1933.1	1875.3	1807.5
62.5°	2558.3	2589.3	2608.0	2614.2	2608.0	2589.3	2558.3	2515.0	2459.5	2392.2	2313.1
60°	3166.5	3205.6	3229.1	3236.9	3229.1	3205.6	3166.5	3112.0	3042.4	2957.7	2858.4
57.5°	3867.5	3917.3	3947.3	3957.3	3947.3	3917.3	3867.5	3798.0	3709.2	3601.3	3474.9
55°	4577.2	4631.8	4664.6	4675.6	4664.6	4631.8	4577.2	4501.1	4403.9	4286.0	4147.9
52.5°	5261.6	5319.0	5353.6	5365.1	5353.6	5319.0	5261.6	5181.7	5079.6	4956.0	4811.2
50°	6028.3	6100.4	6143.9	6158.4	6143.9	6100.4	6028.3	5927.9	5799.7	5644.6	5463.3
47.5°	8325.7	8587.7	8745.6	8798.3	8745.6	8587.7	8325.7	7961.3	7496.9	6935.2	6279.7
45°	10515.1	10745.9	10885.1	10931.6	10885.1	10745.9	10515.1	10194.4	9786.0	9292.8	8699.0
42.5°	11866.6	12006.7	12091.2	12119.5	12091.2	12006.7	11866.6	11672.1	11424.8	11126.7	10659.0
40°	13194.8	13374.9	13483.7	13520.1	13483.7	13374.9	13194.8	12945.0	12628.0	12246.4	11851.4
37.5°	14932.7	15198.5	15359.1	15412.9	15359.1	15198.5	14932.7	14564.8	14098.6	13538.7	13054.2
35°	17369.6	17785.5	18037.3	18121.6	18037.3	17785.5	17369.6	16794.8	16068.2	15262.7	14560.5
32.5°	20942.1	21624.8	22038.8	22177.5	22038.8	21624.8	20942.1	20000.6	18813.7	17637.4	16548.6
30°	26212.6	27336.7	28019.6	28248.6	28019.6	27336.7	26212.6	24666.8	22724.5	20999.8	19231.7
27.5°	37152.3	40046.9	41809.6	42401.6	41809.6	40046.9	37152.3	33185.6	28237.4	25717.4	22844.5
25°	59051.7	65488.6	69420.8	70743.7	69420.8	65488.6	59051.7	50269.9	40872.8	34450.1	27786.8
22.5°	93708.7	104548.1	111198.0	113440.3	111198.0	104548.1	93708.7	79005.7	64163.2	50068.5	38312.6
20°	140892.4	157337.7	167485.4	170917.8	167485.4	157337.7	140892.4	118757.1	97241.3	73916.6	55587.3
17.5°	197935.9	219787.1	233381.3	238000.2	233381.3	219787.1	197935.9	169131.1	138926.2	106695.4	78374.9
15°	259842.6	286537.6	303345.5	309095.4	303345.5	286537.6	259842.6	225553.5	186124.4	145844.2	106695.4
12.5°	323378.7	357681.9	379574.5	387197.7	379574.5	357681.9	323378.7	281854.0	235130.0	186124.4	138926.2
10°	387915.4	430012.9	460721.8	471757.4	460721.8	430012.9	387915.4	337257.6	281854.0	225553.5	169131.1
7.5°	450336.1	508710.8	543524.1	553541.7	543524.1	508710.8	450336.1	387915.4	323378.7	259842.6	197935.9
5°	508710.8	564304.0	597277.7	609946.3	597277.7	564304.0	508710.8	430012.9	357681.9	286537.6	219787.1
2.5°	543524.1	597277.7	641409.7	661978.6	641409.7	597277.7	543524.1	460721.8	379574.5	303345.5	233381.3
0°	553541.7	609946.3	661978.6	687535.9	661978.6	609946.3	553541.7	471757.4	387197.7	309095.4	238000.2
-2.5°	543524.1	597277.7	641409.7	661978.6	641409.7	597277.7	543524.1	460721.8	379574.5	303345.5	233381.3
-5°	508710.8	564304.0	597277.7	609946.3	597277.7	564304.0	508710.8	430012.9	357681.9	286537.6	219787.1
-7.5°	450336.1	508710.8	543524.1	553541.7	543524.1	508710.8	450336.1	387915.4	323378.7	259842.6	197935.9
-10°	387915.4	430012.9	460721.8	471757.4	460721.8	430012.9	387915.4	337257.6	281854.0	225553.5	169131.1
-12.5°	323378.7	357681.9	379574.5	387197.7	379574.5	357681.9	323378.7	281854.0	235130.0	186124.4	138926.2
-15°	259842.6	286537.6	303345.5	309095.4	303345.5	286537.6	259842.6	225553.5	186124.4	145844.2	106695.4
-17.5°	197935.9	219787.1	233381.3	238000.2	233381.3	219787.1	197935.9	169131.1	138926.2	106695.4	78374.9
-20°	140892.4	157337.7	167485.4	170917.8	167485.4	157337.7	140892.4	118757.1	97241.3	73916.6	55587.3



REPORT NUMBER: P699940 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-3S-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	93708.7	104548.1	111198.0	113440.3	111198.0	104548.1	93708.7	79005.7	64163.2	50068.5	38312.6
-25°	59051.7	65488.6	69420.8	70743.7	69420.8	65488.6	59051.7	50269.9	40872.8	34450.1	27786.8
-27.5°	37152.3	40046.9	41809.6	42401.6	41809.6	40046.9	37152.3	33185.6	28237.4	25717.4	22844.5
-30°	26212.6	27336.7	28019.6	28248.6	28019.6	27336.7	26212.6	24666.8	22724.5	20999.8	19231.7
-32.5°	20942.1	21624.8	22038.8	22177.5	22038.8	21624.8	20942.1	20000.6	18813.7	17637.4	16548.6
-35°	17369.6	17785.5	18037.3	18121.6	18037.3	17785.5	17369.6	16794.8	16068.2	15262.7	14560.5
-37.5°	14932.7	15198.5	15359.1	15412.9	15359.1	15198.5	14932.7	14564.8	14098.6	13538.7	13054.2
-40°	13194.8	13374.9	13483.7	13520.1	13483.7	13374.9	13194.8	12945.0	12628.0	12246.4	11851.4
-42.5°	11866.6	12006.7	12091.2	12119.5	12091.2	12006.7	11866.6	11672.1	11424.8	11126.7	10659.0
-45°	10515.1	10745.9	10885.1	10931.6	10885.1	10745.9	10515.1	10194.4	9786.0	9292.8	8699.0
-47.5°	8325.7	8587.7	8745.6	8798.3	8745.6	8587.7	8325.7	7961.3	7496.9	6935.2	6279.7
-50°	6028.3	6100.4	6143.9	6158.4	6143.9	6100.4	6028.3	5927.9	5799.7	5644.6	5463.3
-52.5°	5261.6	5319.0	5353.6	5365.1	5353.6	5319.0	5261.6	5181.7	5079.6	4956.0	4811.2
-55°	4577.2	4631.8	4664.6	4675.6	4664.6	4631.8	4577.2	4501.1	4403.9	4286.0	4147.9
-57.5°	3867.5	3917.3	3947.3	3957.3	3947.3	3917.3	3867.5	3798.0	3709.2	3601.3	3474.9
-60°	3166.5	3205.6	3229.1	3236.9	3229.1	3205.6	3166.5	3112.0	3042.4	2957.7	2858.4
-62.5°	2558.3	2589.3	2608.0	2614.2	2608.0	2589.3	2558.3	2515.0	2459.5	2392.2	2313.1
-65°	2017.6	2044.2	2060.2	2065.5	2060.2	2044.2	2017.6	1980.5	1933.1	1875.3	1807.5
-67.5°	1504.4	1524.9	1537.3	1541.4	1537.3	1524.9	1504.4	1475.7	1438.9	1394.2	1341.7
-70°	1056.7	1072.5	1081.9	1085.1	1081.9	1072.5	1056.7	1034.8	1006.6	972.3	932.1
-72.5°	667.4	678.6	685.3	687.5	685.3	678.6	667.4	651.9	631.9	607.7	579.1
-75°	351.9	357.9	361.5	362.7	361.5	357.9	351.9	343.5	332.8	319.8	304.4
-77.5°	153.9	155.8	156.8	157.2	156.8	155.8	153.9	151.4	148.2	144.2	139.6
-80°	81.3	81.8	82.1	82.2	82.1	81.8	81.3	80.7	79.8	78.8	77.6
-82.5°	57.0	57.3	57.4	57.5	57.4	57.3	57.0	56.6	56.0	55.4	54.6
-85°	36.7	36.9	37.0	37.0	37.0	36.9	36.7	36.5	36.3	35.9	35.6
-87.5°	21.4	21.5	21.6	21.6	21.6	21.5	21.4	21.3	21.1	20.9	20.6
-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: P699940 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-3S-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°	20.3	20.0	19.6	19.2	18.7	18.2	17.7	17.1	16.5	15.9	15.3
85°	35.1	34.7	34.1	33.5	32.9	32.2	31.4	30.6	29.8	28.9	28.0
82.5°	53.8	52.8	51.7	50.5	49.2	47.8	46.3	44.7	43.1	41.3	39.4
80°	76.2	74.6	72.9	70.9	68.9	66.6	64.2	61.6	58.9	56.3	53.8
77.5°	134.3	128.2	121.6	114.3	106.3	97.7	88.6	81.1	77.7	74.1	70.4
75°	286.8	266.9	244.8	220.7	194.4	166.1	149.4	137.7	125.3	112.2	98.6
72.5°	546.4	509.5	468.6	423.7	375.0	337.3	301.9	264.2	224.4	182.6	150.5
70°	885.9	833.9	776.2	713.0	652.3	592.1	527.7	459.4	387.2	330.3	280.1
67.5°	1281.5	1213.7	1138.7	1060.1	982.5	898.9	809.8	715.2	628.6	543.1	453.6
65°	1729.9	1642.5	1545.8	1453.1	1353.2	1245.9	1131.5	1019.9	908.5	791.7	672.9
62.5°	2222.5	2120.8	2010.8	1893.2	1765.9	1629.3	1491.2	1357.0	1215.6	1069.8	935.1
60°	2744.8	2617.3	2492.7	2356.9	2210.1	2053.3	1893.2	1723.9	1545.8	1382.9	1213.7
57.5°	3330.4	3177.6	3022.9	2854.1	2671.6	2492.7	2309.6	2116.2	1919.8	1716.9	1510.2
55°	3990.2	3813.1	3617.6	3404.6	3183.1	2970.5	2744.8	2519.4	2299.2	2069.2	1840.7
52.5°	4644.9	4452.5	4240.4	4009.6	3760.4	3494.0	3215.0	2957.7	2688.1	2431.7	2174.5
50°	5270.9	5070.3	4849.6	4607.0	4338.2	4051.6	3747.5	3427.4	3112.0	2810.6	2511.9
47.5°	5970.8	5720.8	5446.2	5176.6	4898.6	4599.6	4273.7	3931.5	3573.1	3205.6	2872.3
45°	7891.4	6992.0	6112.6	5791.8	5448.0	5119.7	4784.9	4423.9	4042.8	3646.6	3236.9
42.5°	9953.1	9168.6	8194.6	7047.3	6056.9	5666.1	5269.3	4895.5	4499.6	4080.1	3646.6
40°	11426.6	10955.7	10052.0	9057.5	7806.5	6418.5	5798.7	5344.8	4932.6	4499.6	4042.8
37.5°	12513.2	11946.2	11394.3	10697.5	9564.7	8268.4	6720.5	5843.2	5344.8	4895.5	4423.9
35°	13771.1	13062.2	12364.1	11692.7	11020.3	9821.2	8423.5	6720.5	5798.7	5269.3	4784.9
32.5°	15354.2	14418.5	13436.7	12638.2	11843.8	11093.9	9821.2	8268.4	6418.5	5666.1	5119.7
30°	17545.9	16106.3	14814.8	13664.1	12730.4	11843.8	11020.3	9564.7	7806.5	6056.9	5448.0
27.5°	20493.1	18176.6	16501.4	14948.3	13664.1	12638.2	11692.7	10697.5	9057.5	7047.3	5791.8
25°	24342.9	21136.1	18485.9	16501.4	14814.8	13436.7	12364.1	11394.3	10052.0	8194.6	6112.6
22.5°	29640.3	24849.5	21136.1	18176.6	16106.3	14418.5	13062.2	11946.2	10955.7	9168.6	6992.0
20°	39622.6	29640.3	24342.9	20493.1	17545.9	15354.2	13771.1	12513.2	11426.6	9953.1	7891.4
17.5°	55587.3	38312.6	27786.8	22844.5	19231.7	16548.6	14560.5	13054.2	11851.4	10659.0	8699.0
15°	73916.6	50068.5	34450.1	25717.4	20999.8	17637.4	15262.7	13538.7	12246.4	11126.7	9292.8
12.5°	97241.3	64163.2	40872.8	28237.4	22724.5	18813.7	16068.2	14098.6	12628.0	11424.8	9786.0
10°	118757.1	79005.7	50269.9	33185.6	24666.8	20000.6	16794.8	14564.8	12945.0	11672.1	10194.4
7.5°	140892.4	93708.7	59051.7	37152.3	26212.6	20942.1	17369.6	14932.7	13194.8	11866.6	10515.1
5°	157337.7	104548.1	65488.6	40046.9	27336.7	21624.8	17785.5	15198.5	13374.9	12006.7	10745.9
2.5°	167485.4	111198.0	69420.8	41809.6	28019.6	22038.8	18037.3	15359.1	13483.7	12091.2	10885.1
0°	170917.8	113440.3	70743.7	42401.6	28248.6	22177.5	18121.6	15412.9	13520.1	12119.5	10931.6
-2.5°	167485.4	111198.0	69420.8	41809.6	28019.6	22038.8	18037.3	15359.1	13483.7	12091.2	10885.1
-5°	157337.7	104548.1	65488.6	40046.9	27336.7	21624.8	17785.5	15198.5	13374.9	12006.7	10745.9
-7.5°	140892.4	93708.7	59051.7	37152.3	26212.6	20942.1	17369.6	14932.7	13194.8	11866.6	10515.1
-10°	118757.1	79005.7	50269.9	33185.6	24666.8	20000.6	16794.8	14564.8	12945.0	11672.1	10194.4
-12.5°	97241.3	64163.2	40872.8	28237.4	22724.5	18813.7	16068.2	14098.6	12628.0	11424.8	9786.0
-15°	73916.6	50068.5	34450.1	25717.4	20999.8	17637.4	15262.7	13538.7	12246.4	11126.7	9292.8
-17.5°	55587.3	38312.6	27786.8	22844.5	19231.7	16548.6	14560.5	13054.2	11851.4	10659.0	8699.0
-20°	39622.6	29640.3	24342.9	20493.1	17545.9	15354.2	13771.1	12513.2	11426.6	9953.1	7891.4



REPORT NUMBER: P699940 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-3S-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	29640.3	24849.5	21136.1	18176.6	16106.3	14418.5	13062.2	11946.2	10955.7	9168.6	6992.0
-25°	24342.9	21136.1	18485.9	16501.4	14814.8	13436.7	12364.1	11394.3	10052.0	8194.6	6112.6
-27.5°	20493.1	18176.6	16501.4	14948.3	13664.1	12638.2	11692.7	10697.5	9057.5	7047.3	5791.8
-30°	17545.9	16106.3	14814.8	13664.1	12730.4	11843.8	11020.3	9564.7	7806.5	6056.9	5448.0
-32.5°	15354.2	14418.5	13436.7	12638.2	11843.8	11093.9	9821.2	8268.4	6418.5	5666.1	5119.7
-35°	13771.1	13062.2	12364.1	11692.7	11020.3	9821.2	8423.5	6720.5	5798.7	5269.3	4784.9
-37.5°	12513.2	11946.2	11394.3	10697.5	9564.7	8268.4	6720.5	5843.2	5344.8	4895.5	4423.9
-40°	11426.6	10955.7	10052.0	9057.5	7806.5	6418.5	5798.7	5344.8	4932.6	4499.6	4042.8
-42.5°	9953.1	9168.6	8194.6	7047.3	6056.9	5666.1	5269.3	4895.5	4499.6	4080.1	3646.6
-45°	7891.4	6992.0	6112.6	5791.8	5448.0	5119.7	4784.9	4423.9	4042.8	3646.6	3236.9
-47.5°	5970.8	5720.8	5446.2	5176.6	4898.6	4599.6	4273.7	3931.5	3573.1	3205.6	2872.3
-50°	5270.9	5070.3	4849.6	4607.0	4338.2	4051.6	3747.5	3427.4	3112.0	2810.6	2511.9
-52.5°	4644.9	4452.5	4240.4	4009.6	3760.4	3494.0	3215.0	2957.7	2688.1	2431.7	2174.5
-55°	3990.2	3813.1	3617.6	3404.6	3183.1	2970.5	2744.8	2519.4	2299.2	2069.2	1840.7
-57.5°	3330.4	3177.6	3022.9	2854.1	2671.6	2492.7	2309.6	2116.2	1919.8	1716.9	1510.2
-60°	2744.8	2617.3	2492.7	2356.9	2210.1	2053.3	1893.2	1723.9	1545.8	1382.9	1213.7
-62.5°	2222.5	2120.8	2010.8	1893.2	1765.9	1629.3	1491.2	1357.0	1215.6	1069.8	935.1
-65°	1729.9	1642.5	1545.8	1453.1	1353.2	1245.9	1131.5	1019.9	908.5	791.7	672.9
-67.5°	1281.5	1213.7	1138.7	1060.1	982.5	898.9	809.8	715.2	628.6	543.1	453.6
-70°	885.9	833.9	776.2	713.0	652.3	592.1	527.7	459.4	387.2	330.3	280.1
-72.5°	546.4	509.5	468.6	423.7	375.0	337.3	301.9	264.2	224.4	182.6	150.5
-75°	286.8	266.9	244.8	220.7	194.4	166.1	149.4	137.7	125.3	112.2	98.6
-77.5°	134.3	128.2	121.6	114.3	106.3	97.7	88.6	81.1	77.7	74.1	70.4
-80°	76.2	74.6	72.9	70.9	68.9	66.6	64.2	61.6	58.9	56.3	53.8
-82.5°	53.8	52.8	51.7	50.5	49.2	47.8	46.3	44.7	43.1	41.3	39.4
-85°	35.1	34.7	34.1	33.5	32.9	32.2	31.4	30.6	29.8	28.9	28.0
-87.5°	20.3	20.0	19.6	19.2	18.7	18.2	17.7	17.1	16.5	15.9	15.3
-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: P699940 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-3S-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°	14.6	13.9	13.1	12.4	11.6	10.8	10.0	9.1	8.3	7.4	6.5
85°	27.0	26.0	24.9	23.9	22.7	21.6	19.9	18.2	16.5	14.8	13.0
82.5°	37.5	35.8	34.3	32.6	31.0	29.3	27.5	25.7	23.8	22.0	19.4
80°	51.2	48.6	45.8	42.9	39.9	36.9	34.5	32.1	29.7	27.2	24.6
77.5°	66.5	62.4	58.2	54.5	50.8	46.9	43.0	39.0	35.5	32.4	29.2
75°	84.3	78.0	73.0	67.7	62.4	57.0	52.3	47.5	42.6	37.6	33.7
72.5°	133.8	116.5	98.6	81.5	75.3	68.8	62.3	55.9	50.2	44.4	38.5
70°	227.9	173.6	142.7	121.6	99.9	80.7	73.2	65.5	57.7	51.1	44.4
67.5°	361.3	300.2	237.1	172.0	138.2	113.1	87.5	75.4	66.6	57.7	50.2
65°	569.2	461.8	355.2	282.8	208.6	148.2	119.8	90.9	75.4	65.5	55.9
62.5°	795.2	657.1	534.9	409.2	310.5	227.0	151.5	119.8	87.5	73.2	62.3
60°	1044.2	885.9	722.6	579.1	438.6	319.8	227.0	148.2	113.1	80.7	68.8
57.5°	1319.5	1122.4	940.7	759.0	593.9	438.6	310.5	208.6	138.2	99.9	75.3
55°	1604.1	1383.5	1164.8	959.1	759.0	579.1	409.2	282.8	172.0	121.6	81.5
52.5°	1915.6	1653.7	1404.9	1164.8	940.7	722.6	534.9	355.2	237.1	142.7	98.6
50°	2227.5	1940.7	1653.7	1383.5	1122.4	885.9	657.1	461.8	300.2	173.6	116.5
47.5°	2538.8	2227.5	1915.6	1604.1	1319.5	1044.2	795.2	569.2	361.3	227.9	133.8
45°	2872.3	2511.9	2174.5	1840.7	1510.2	1213.7	935.1	672.9	453.6	280.1	150.5
42.5°	3205.6	2810.6	2431.7	2069.2	1716.9	1382.9	1069.8	791.7	543.1	330.3	182.6
40°	3573.1	3112.0	2688.1	2299.2	1919.8	1545.8	1215.6	908.5	628.6	387.2	224.4
37.5°	3931.5	3427.4	2957.7	2519.4	2116.2	1723.9	1357.0	1019.9	715.2	459.4	264.2
35°	4273.7	3747.5	3215.0	2744.8	2309.6	1893.2	1491.2	1131.5	809.8	527.7	301.9
32.5°	4599.6	4051.6	3494.0	2970.5	2492.7	2053.3	1629.3	1245.9	898.9	592.1	337.3
30°	4898.6	4338.2	3760.4	3183.1	2671.6	2210.1	1765.9	1353.2	982.5	652.3	375.0
27.5°	5176.6	4607.0	4009.6	3404.6	2854.1	2356.9	1893.2	1453.1	1060.1	713.0	423.7
25°	5446.2	4849.6	4240.4	3617.6	3022.9	2492.7	2010.8	1545.8	1138.7	776.2	468.6
22.5°	5720.8	5070.3	4452.5	3813.1	3177.6	2617.3	2120.8	1642.5	1213.7	833.9	509.5
20°	5970.8	5270.9	4644.9	3990.2	3330.4	2744.8	2222.5	1729.9	1281.5	885.9	546.4
17.5°	6279.7	5463.3	4811.2	4147.9	3474.9	2858.4	2313.1	1807.5	1341.7	932.1	579.1
15°	6935.2	5644.6	4956.0	4286.0	3601.3	2957.7	2392.2	1875.3	1394.2	972.3	607.7
12.5°	7496.9	5799.7	5079.6	4403.9	3709.2	3042.4	2459.5	1933.1	1438.9	1006.6	631.9
10°	7961.3	5927.9	5181.7	4501.1	3798.0	3112.0	2515.0	1980.5	1475.7	1034.8	651.9
7.5°	8325.7	6028.3	5261.6	4577.2	3867.5	3166.5	2558.3	2017.6	1504.4	1056.7	667.4
5°	8587.7	6100.4	5319.0	4631.8	3917.3	3205.6	2589.3	2044.2	1524.9	1072.5	678.6
2.5°	8745.6	6143.9	5353.6	4664.6	3947.3	3229.1	2608.0	2060.2	1537.3	1081.9	685.3
0°	8798.3	6158.4	5365.1	4675.6	3957.3	3236.9	2614.2	2065.5	1541.4	1085.1	687.5
-2.5°	8745.6	6143.9	5353.6	4664.6	3947.3	3229.1	2608.0	2060.2	1537.3	1081.9	685.3
-5°	8587.7	6100.4	5319.0	4631.8	3917.3	3205.6	2589.3	2044.2	1524.9	1072.5	678.6
-7.5°	8325.7	6028.3	5261.6	4577.2	3867.5	3166.5	2558.3	2017.6	1504.4	1056.7	667.4
-10°	7961.3	5927.9	5181.7	4501.1	3798.0	3112.0	2515.0	1980.5	1475.7	1034.8	651.9
-12.5°	7496.9	5799.7	5079.6	4403.9	3709.2	3042.4	2459.5	1933.1	1438.9	1006.6	631.9
-15°	6935.2	5644.6	4956.0	4286.0	3601.3	2957.7	2392.2	1875.3	1394.2	972.3	607.7
-17.5°	6279.7	5463.3	4811.2	4147.9	3474.9	2858.4	2313.1	1807.5	1341.7	932.1	579.1
-20°	5970.8	5270.9	4644.9	3990.2	3330.4	2744.8	2222.5	1729.9	1281.5	885.9	546.4



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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°	5720.8	5070.3	4452.5	3813.1	3177.6	2617.3	2120.8	1642.5	1213.7	833.9	509.5
-25°	5446.2	4849.6	4240.4	3617.6	3022.9	2492.7	2010.8	1545.8	1138.7	776.2	468.6
-27.5°	5176.6	4607.0	4009.6	3404.6	2854.1	2356.9	1893.2	1453.1	1060.1	713.0	423.7
-30°	4898.6	4338.2	3760.4	3183.1	2671.6	2210.1	1765.9	1353.2	982.5	652.3	375.0
-32.5°	4599.6	4051.6	3494.0	2970.5	2492.7	2053.3	1629.3	1245.9	898.9	592.1	337.3
-35°	4273.7	3747.5	3215.0	2744.8	2309.6	1893.2	1491.2	1131.5	809.8	527.7	301.9
-37.5°	3931.5	3427.4	2957.7	2519.4	2116.2	1723.9	1357.0	1019.9	715.2	459.4	264.2
-40°	3573.1	3112.0	2688.1	2299.2	1919.8	1545.8	1215.6	908.5	628.6	387.2	224.4
-42.5°	3205.6	2810.6	2431.7	2069.2	1716.9	1382.9	1069.8	791.7	543.1	330.3	182.6
-45°	2872.3	2511.9	2174.5	1840.7	1510.2	1213.7	935.1	672.9	453.6	280.1	150.5
-47.5°	2538.8	2227.5	1915.6	1604.1	1319.5	1044.2	795.2	569.2	361.3	227.9	133.8
-50°	2227.5	1940.7	1653.7	1383.5	1122.4	885.9	657.1	461.8	300.2	173.6	116.5
-52.5°	1915.6	1653.7	1404.9	1164.8	940.7	722.6	534.9	355.2	237.1	142.7	98.6
-55°	1604.1	1383.5	1164.8	959.1	759.0	579.1	409.2	282.8	172.0	121.6	81.5
-57.5°	1319.5	1122.4	940.7	759.0	593.9	438.6	310.5	208.6	138.2	99.9	75.3
-60°	1044.2	885.9	722.6	579.1	438.6	319.8	227.0	148.2	113.1	80.7	68.8
-62.5°	795.2	657.1	534.9	409.2	310.5	227.0	151.5	119.8	87.5	73.2	62.3
-65°	569.2	461.8	355.2	282.8	208.6	148.2	119.8	90.9	75.4	65.5	55.9
-67.5°	361.3	300.2	237.1	172.0	138.2	113.1	87.5	75.4	66.6	57.7	50.2
-70°	227.9	173.6	142.7	121.6	99.9	80.7	73.2	65.5	57.7	51.1	44.4
-72.5°	133.8	116.5	98.6	81.5	75.3	68.8	62.3	55.9	50.2	44.4	38.5
-75°	84.3	78.0	73.0	67.7	62.4	57.0	52.3	47.5	42.6	37.6	33.7
-77.5°	66.5	62.4	58.2	54.5	50.8	46.9	43.0	39.0	35.5	32.4	29.2
-80°	51.2	48.6	45.8	42.9	39.9	36.9	34.5	32.1	29.7	27.2	24.6
-82.5°	37.5	35.8	34.3	32.6	31.0	29.3	27.5	25.7	23.8	22.0	19.4
-85°	27.0	26.0	24.9	23.9	22.7	21.6	19.9	18.2	16.5	14.8	13.0
-87.5°	14.6	13.9	13.1	12.4	11.6	10.8	10.0	9.1	8.3	7.4	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):

	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°	5.6	4.7	3.7	2.8	1.9	0.9	0.0
85°	11.2	9.3	7.5	5.6	3.8	1.9	0.0
82.5°	16.7	14.0	11.2	8.4	5.6	2.8	0.0
80°	22.1	18.6	14.9	11.2	7.5	3.7	0.0
77.5°	26.0	22.7	18.6	14.0	9.3	4.7	0.0
75°	29.9	26.0	22.1	16.7	11.2	5.6	0.0
72.5°	33.7	29.2	24.6	19.4	13.0	6.5	0.0
70°	37.6	32.4	27.2	22.0	14.8	7.4	0.0
67.5°	42.6	35.5	29.7	23.8	16.5	8.3	0.0
65°	47.5	39.0	32.1	25.7	18.2	9.1	0.0
62.5°	52.3	43.0	34.5	27.5	19.9	10.0	0.0
60°	57.0	46.9	36.9	29.3	21.6	10.8	0.0
57.5°	62.4	50.8	39.9	31.0	22.7	11.6	0.0
55°	67.7	54.5	42.9	32.6	23.9	12.4	0.0
52.5°	73.0	58.2	45.8	34.3	24.9	13.1	0.0
50°	78.0	62.4	48.6	35.8	26.0	13.9	0.0
47.5°	84.3	66.5	51.2	37.5	27.0	14.6	0.0
45°	98.6	70.4	53.8	39.4	28.0	15.3	0.0
42.5°	112.2	74.1	56.3	41.3	28.9	15.9	0.0
40°	125.3	77.7	58.9	43.1	29.8	16.5	0.0
37.5°	137.7	81.1	61.6	44.7	30.6	17.1	0.0
35°	149.4	88.6	64.2	46.3	31.4	17.7	0.0
32.5°	166.1	97.7	66.6	47.8	32.2	18.2	0.0
30°	194.4	106.3	68.9	49.2	32.9	18.7	0.0
27.5°	220.7	114.3	70.9	50.5	33.5	19.2	0.0
25°	244.8	121.6	72.9	51.7	34.1	19.6	0.0
22.5°	266.9	128.2	74.6	52.8	34.7	20.0	0.0
20°	286.8	134.3	76.2	53.8	35.1	20.3	0.0
17.5°	304.4	139.6	77.6	54.6	35.6	20.6	0.0
15°	319.8	144.2	78.8	55.4	35.9	20.9	0.0
12.5°	332.8	148.2	79.8	56.0	36.3	21.1	0.0
10°	343.5	151.4	80.7	56.6	36.5	21.3	0.0
7.5°	351.9	153.9	81.3	57.0	36.7	21.4	0.0
5°	357.9	155.8	81.8	57.3	36.9	21.5	0.0
2.5°	361.5	156.8	82.1	57.4	37.0	21.6	0.0
0°	362.7	157.2	82.2	57.5	37.0	21.6	0.0
-2.5°	361.5	156.8	82.1	57.4	37.0	21.6	0.0
-5°	357.9	155.8	81.8	57.3	36.9	21.5	0.0
-7.5°	351.9	153.9	81.3	57.0	36.7	21.4	0.0
-10°	343.5	151.4	80.7	56.6	36.5	21.3	0.0
-12.5°	332.8	148.2	79.8	56.0	36.3	21.1	0.0
-15°	319.8	144.2	78.8	55.4	35.9	20.9	0.0
-17.5°	304.4	139.6	77.6	54.6	35.6	20.6	0.0
-20°	286.8	134.3	76.2	53.8	35.1	20.3	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	266.9	128.2	74.6	52.8	34.7	20.0	0.0
-25°	244.8	121.6	72.9	51.7	34.1	19.6	0.0
-27.5°	220.7	114.3	70.9	50.5	33.5	19.2	0.0
-30°	194.4	106.3	68.9	49.2	32.9	18.7	0.0
-32.5°	166.1	97.7	66.6	47.8	32.2	18.2	0.0
-35°	149.4	88.6	64.2	46.3	31.4	17.7	0.0
-37.5°	137.7	81.1	61.6	44.7	30.6	17.1	0.0
-40°	125.3	77.7	58.9	43.1	29.8	16.5	0.0
-42.5°	112.2	74.1	56.3	41.3	28.9	15.9	0.0
-45°	98.6	70.4	53.8	39.4	28.0	15.3	0.0
-47.5°	84.3	66.5	51.2	37.5	27.0	14.6	0.0
-50°	78.0	62.4	48.6	35.8	26.0	13.9	0.0
-52.5°	73.0	58.2	45.8	34.3	24.9	13.1	0.0
-55°	67.7	54.5	42.9	32.6	23.9	12.4	0.0
-57.5°	62.4	50.8	39.9	31.0	22.7	11.6	0.0
-60°	57.0	46.9	36.9	29.3	21.6	10.8	0.0
-62.5°	52.3	43.0	34.5	27.5	19.9	10.0	0.0
-65°	47.5	39.0	32.1	25.7	18.2	9.1	0.0
-67.5°	42.6	35.5	29.7	23.8	16.5	8.3	0.0
-70°	37.6	32.4	27.2	22.0	14.8	7.4	0.0
-72.5°	33.7	29.2	24.6	19.4	13.0	6.5	0.0
-75°	29.9	26.0	22.1	16.7	11.2	5.6	0.0
-77.5°	26.0	22.7	18.6	14.0	9.3	4.7	0.0
-80°	22.1	18.6	14.9	11.2	7.5	3.7	0.0
-82.5°	16.7	14.0	11.2	8.4	5.6	2.8	0.0
-85°	11.2	9.3	7.5	5.6	3.8	1.9	0.0
-87.5°	5.6	4.7	3.7	2.8	1.9	0.9	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)