

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: P699911 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200L-57-70-2S-S**

Issue Date: 8/10/2023

Test Information

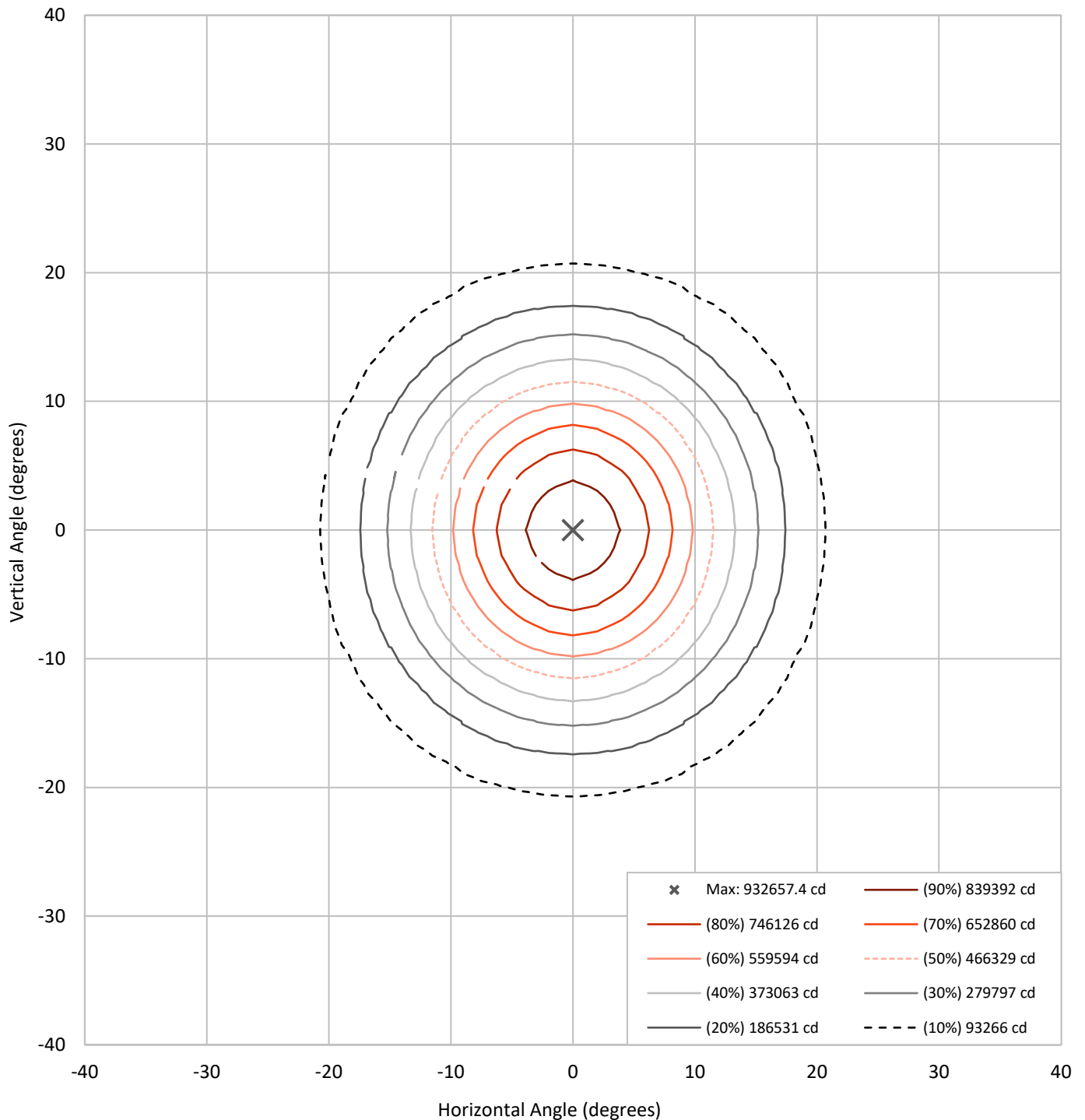
Test Method: LM-79-08
Report Number: P699911 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-10)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200L-57-70-2S-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 5700K, 70 CRI LEDS AND 2S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	187273 lumens	Max Intensity:	932657.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	153.2 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	23.1°H x 23.1°V	Field Angle (10%):	41.4°H x 41.4°V
Beam Lumens:	84367.6 lumens	Field Lumens:	148840.9 lumens
Beam Efficiency:	45.1%	Field Efficiency:	79.5%
Input Watts (W):	1222.5		
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





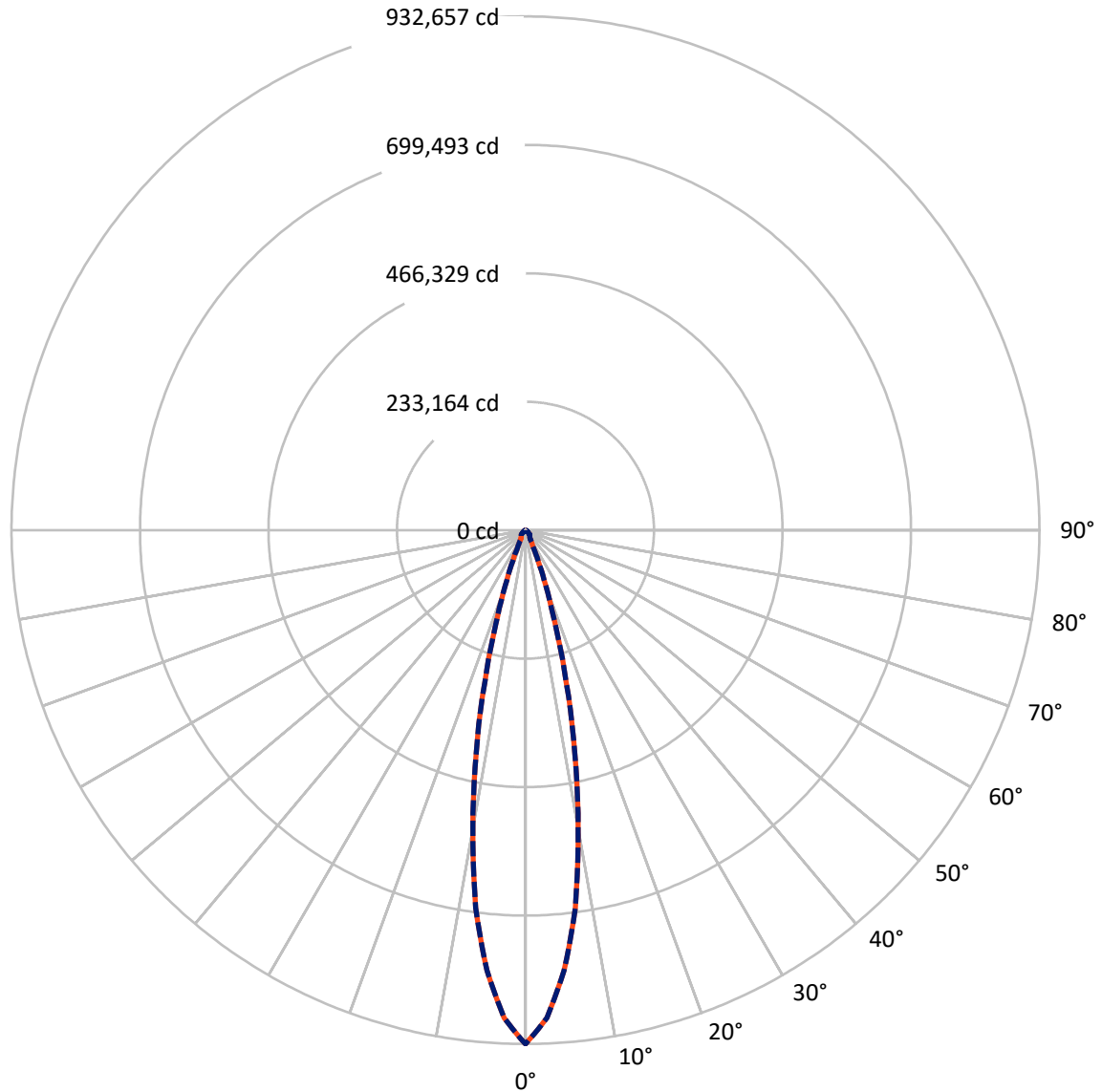
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Lumen Table

90	0.3	2.2		8.2		19.6		25.5		19.6		8.2		2.2		0.3
80	0.3	2.2		8.2		19.6		25.5		19.6		8.2		2.2		0.3
70	1.0	1.2	4.9	13.4	25.8	39.0	50.1	56.3	56.3	50.1	39.0	25.8	13.4	4.9	1.2	1.0
60		3.7	15.3	35.9	62.4	89.1	109.0	119.7	119.7	109.0	89.1	62.4	35.9	15.3	3.7	
50	2.7	8.3	29.3	63.5	102.4	164.4	242.1	286.4	286.4	242.1	164.4	102.4	63.5	29.3	8.3	2.7
40		13.7	44.1	88.6	188.4	314.0	382.1	419.3	419.3	382.1	314.0	188.4	88.6	44.1	13.7	
30	5.7	18.8	57.0	129.5	284.2	388.1	609.5	1148.7	1148.7	609.5	388.1	284.2	129.5	57.0	18.8	5.7
20		22.6	65.4	179.4	324.7	574.0	2868.7	7762.3	7762.3	2868.7	574.0	324.7	179.4	65.4	22.6	
10	7.0	24.6	69.6	205.4	345.6	1057.0	7562.8	20092.3	20092.3	7562.8	1057.0	345.6	205.4	69.6	24.6	7.0
0		24.6	69.6	205.4	345.6	1057.0	7562.8	20092.3	20092.3	7562.8	1057.0	345.6	205.4	69.6	24.6	
-10	5.7	22.6	65.4	179.4	324.7	574.0	2868.7	7762.3	7762.3	2868.7	574.0	324.7	179.4	65.4	22.6	5.7
-20		18.8	57.0	129.5	284.2	388.1	609.5	1148.7	1148.7	609.5	388.1	284.2	129.5	57.0	18.8	
-30	2.7	13.7	44.1	88.6	188.4	314.0	382.1	419.3	419.3	382.1	314.0	188.4	88.6	44.1	13.7	2.7
-40		8.3	29.3	63.5	102.4	164.4	242.1	286.4	286.4	242.1	164.4	102.4	63.5	29.3	8.3	
-50	1.0	3.7	15.3	35.9	62.4	89.1	109.0	119.7	119.7	109.0	89.1	62.4	35.9	15.3	3.7	1.0
-60		1.2	4.9	13.4	25.8	39.0	50.1	56.3	56.3	50.1	39.0	25.8	13.4	4.9	1.2	
-70	0.3	2.2		8.2		19.6		25.5		19.6		8.2		2.2		0.3
-80		2.2		8.2		19.6		25.5		19.6		8.2		2.2		
-90	0.3	2.2		8.2		19.6		25.5		19.6		8.2		2.2		0.3

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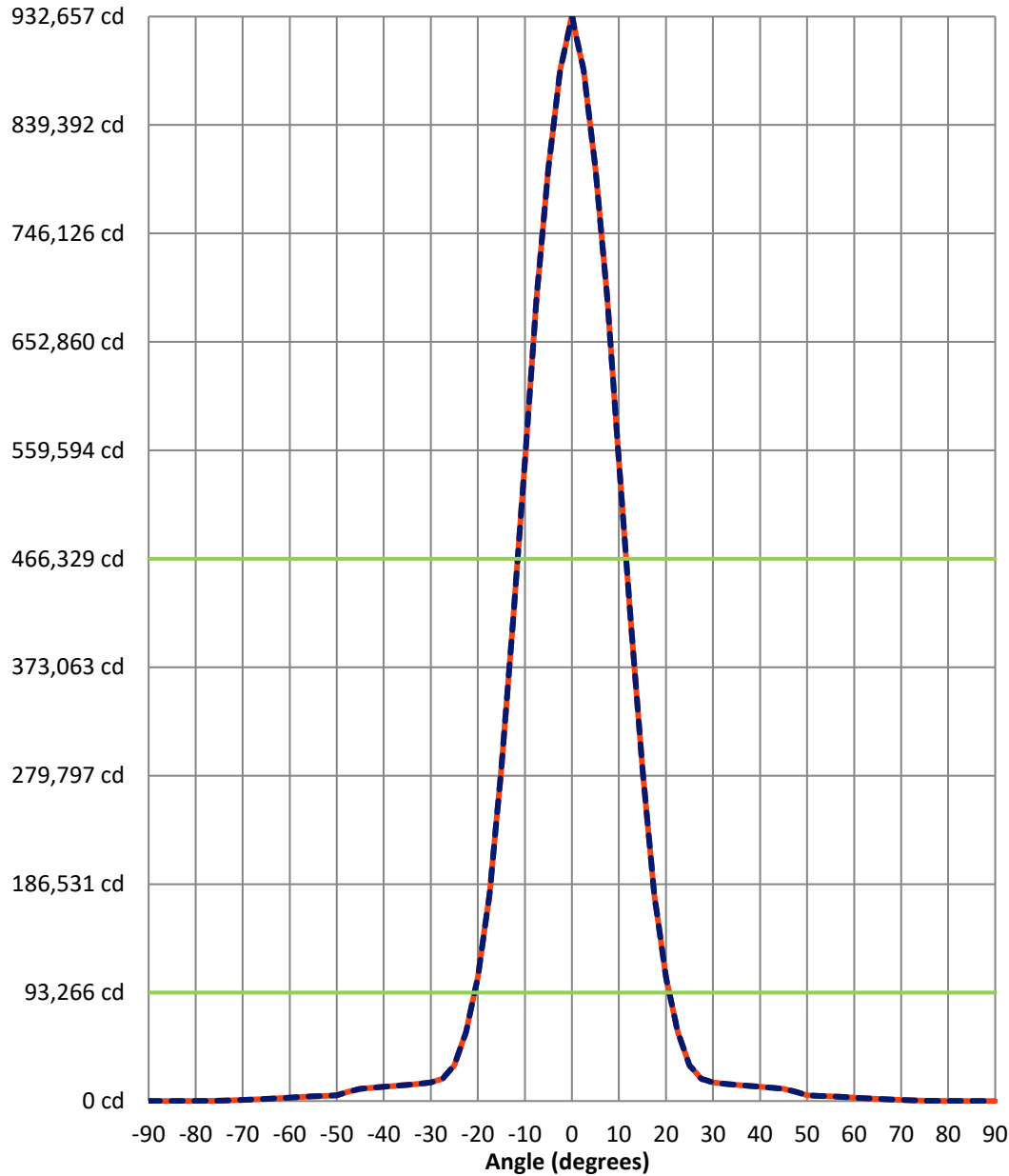
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 23.1°
 V Angle: 23.1°
 Lumens: 84367.6
 Efficiency: 45.1%

Field:
 H Angle: 41.4°
 V Angle: 41.4°
 Lumens: 148840.9
 Efficiency: 79.5%

Spill:
 Lumens: 38432.1
 Efficiency: 20.5%

— 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	0.8	1.7	2.5	3.3	4.1	4.9	5.7	6.5	7.3	8.0
85°	0.0	1.7	3.3	5.0	6.6	8.2	9.8	11.4	13.0	14.5	16.0
82.5°	0.0	2.5	5.0	7.4	9.9	12.3	14.7	17.1	19.3	21.0	22.7
80°	0.0	3.3	6.6	9.9	13.1	16.4	19.4	21.8	24.1	26.3	28.6
77.5°	0.0	4.1	8.2	12.3	16.4	20.0	23.0	25.9	28.8	31.6	34.8
75°	0.0	4.9	9.8	14.7	19.4	23.0	26.5	30.0	33.6	37.9	42.2
72.5°	0.0	5.7	11.4	17.1	21.8	25.9	30.0	34.4	39.5	44.6	49.6
70°	0.0	6.5	13.0	19.3	24.1	28.8	33.6	39.5	45.4	51.2	58.5
67.5°	0.0	7.3	14.5	21.0	26.3	31.6	37.9	44.6	51.2	59.5	67.6
65°	0.0	8.0	16.0	22.7	28.6	34.8	42.2	49.6	58.5	67.6	81.3
62.5°	0.0	8.8	17.5	24.3	30.8	38.3	46.4	55.4	65.6	78.5	105.6
60°	0.0	9.5	19.0	26.0	32.9	41.7	50.5	61.6	72.6	100.0	129.4
57.5°	0.0	10.2	20.0	27.5	35.5	45.1	55.5	67.5	88.8	121.0	180.7
55°	0.0	10.9	21.0	29.0	38.2	48.3	60.5	73.4	107.1	149.6	244.0
52.5°	0.0	11.6	22.0	30.5	40.7	51.7	65.4	87.8	124.8	205.0	305.6
50°	0.0	12.2	23.0	32.0	43.1	55.6	70.1	102.9	151.0	258.8	400.5
47.5°	0.0	12.8	23.9	33.4	45.5	59.4	75.8	117.4	197.2	310.8	496.4
45°	0.0	13.4	24.8	35.1	47.8	63.0	87.7	131.4	241.7	393.2	589.0
42.5°	0.0	14.0	25.6	36.8	50.0	66.5	99.2	158.6	284.4	473.0	696.3
40°	0.0	14.6	26.4	38.3	52.3	69.8	110.2	194.3	333.9	549.4	802.1
37.5°	0.0	15.1	27.2	39.8	54.9	73.0	120.6	228.1	398.3	627.1	902.9
35°	0.0	15.6	27.9	41.2	57.2	79.4	130.5	260.2	459.3	712.7	1004.2
32.5°	0.0	16.0	28.6	42.5	59.5	87.1	144.6	290.4	516.8	793.4	1108.3
30°	0.0	16.5	29.2	43.7	61.6	94.2	168.7	323.0	570.6	869.1	1205.9
27.5°	0.0	16.9	29.8	44.9	63.5	100.9	191.0	366.5	625.1	939.4	1296.7
25°	0.0	17.2	30.4	45.9	65.3	107.1	211.6	406.5	682.3	1010.7	1381.0
22.5°	0.0	17.6	30.9	46.9	66.9	112.7	230.4	443.1	734.5	1079.0	1468.8
20°	0.0	17.9	31.3	47.7	68.4	117.7	247.3	476.0	781.6	1140.6	1548.2
17.5°	0.0	18.1	31.7	48.5	69.7	122.2	262.3	505.2	823.4	1195.4	1618.7
15°	0.0	18.4	32.0	49.1	70.8	126.1	275.4	530.7	859.9	1243.1	1680.3
12.5°	0.0	18.5	32.3	49.7	71.8	129.4	286.5	552.4	890.9	1283.8	1732.7
10°	0.0	18.7	32.6	50.2	72.6	132.1	295.7	570.2	916.4	1317.2	1775.8
7.5°	0.0	18.8	32.8	50.5	73.2	134.3	302.8	584.1	936.3	1343.3	1809.5
5°	0.0	18.9	32.9	50.8	73.6	135.8	307.9	594.0	950.6	1362.0	1833.7
2.5°	0.0	19.0	33.0	50.9	73.9	136.7	311.0	600.0	959.1	1373.3	1848.2
0°	0.0	19.0	33.0	51.0	74.0	137.0	312.0	602.0	962.0	1377.0	1853.0
-2.5°	0.0	19.0	33.0	50.9	73.9	136.7	311.0	600.0	959.1	1373.3	1848.2
-5°	0.0	18.9	32.9	50.8	73.6	135.8	307.9	594.0	950.6	1362.0	1833.7
-7.5°	0.0	18.8	32.8	50.5	73.2	134.3	302.8	584.1	936.3	1343.3	1809.5
-10°	0.0	18.7	32.6	50.2	72.6	132.1	295.7	570.2	916.4	1317.2	1775.8
-12.5°	0.0	18.5	32.3	49.7	71.8	129.4	286.5	552.4	890.9	1283.8	1732.7
-15°	0.0	18.4	32.0	49.1	70.8	126.1	275.4	530.7	859.9	1243.1	1680.3
-17.5°	0.0	18.1	31.7	48.5	69.7	122.2	262.3	505.2	823.4	1195.4	1618.7
-20°	0.0	17.9	31.3	47.7	68.4	117.7	247.3	476.0	781.6	1140.6	1548.2



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 CATALOG NUMBER: EPH-LS-16-1200L-57-70-2S-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	17.6	30.9	46.9	66.9	112.7	230.4	443.1	734.5	1079.0	1468.8
-25°	0.0	17.2	30.4	45.9	65.3	107.1	211.6	406.5	682.3	1010.7	1381.0
-27.5°	0.0	16.9	29.8	44.9	63.5	100.9	191.0	366.5	625.1	939.4	1296.7
-30°	0.0	16.5	29.2	43.7	61.6	94.2	168.7	323.0	570.6	869.1	1205.9
-32.5°	0.0	16.0	28.6	42.5	59.5	87.1	144.6	290.4	516.8	793.4	1108.3
-35°	0.0	15.6	27.9	41.2	57.2	79.4	130.5	260.2	459.3	712.7	1004.2
-37.5°	0.0	15.1	27.2	39.8	54.9	73.0	120.6	228.1	398.3	627.1	902.9
-40°	0.0	14.6	26.4	38.3	52.3	69.8	110.2	194.3	333.9	549.4	802.1
-42.5°	0.0	14.0	25.6	36.8	50.0	66.5	99.2	158.6	284.4	473.0	696.3
-45°	0.0	13.4	24.8	35.1	47.8	63.0	87.7	131.4	241.7	393.2	589.0
-47.5°	0.0	12.8	23.9	33.4	45.5	59.4	75.8	117.4	197.2	310.8	496.4
-50°	0.0	12.2	23.0	32.0	43.1	55.6	70.1	102.9	151.0	258.8	400.5
-52.5°	0.0	11.6	22.0	30.5	40.7	51.7	65.4	87.8	124.8	205.0	305.6
-55°	0.0	10.9	21.0	29.0	38.2	48.3	60.5	73.4	107.1	149.6	244.0
-57.5°	0.0	10.2	20.0	27.5	35.5	45.1	55.5	67.5	88.8	121.0	180.7
-60°	0.0	9.5	19.0	26.0	32.9	41.7	50.5	61.6	72.6	100.0	129.4
-62.5°	0.0	8.8	17.5	24.3	30.8	38.3	46.4	55.4	65.6	78.5	105.6
-65°	0.0	8.0	16.0	22.7	28.6	34.8	42.2	49.6	58.5	67.6	81.3
-67.5°	0.0	7.3	14.5	21.0	26.3	31.6	37.9	44.6	51.2	59.5	67.6
-70°	0.0	6.5	13.0	19.3	24.1	28.8	33.6	39.5	45.4	51.2	58.5
-72.5°	0.0	5.7	11.4	17.1	21.8	25.9	30.0	34.4	39.5	44.6	49.6
-75°	0.0	4.9	9.8	14.7	19.4	23.0	26.5	30.0	33.6	37.9	42.2
-77.5°	0.0	4.1	8.2	12.3	16.4	20.0	23.0	25.9	28.8	31.6	34.8
-80°	0.0	3.3	6.6	9.9	13.1	16.4	19.4	21.8	24.1	26.3	28.6
-82.5°	0.0	2.5	5.0	7.4	9.9	12.3	14.7	17.1	19.3	21.0	22.7
-85°	0.0	1.7	3.3	5.0	6.6	8.2	9.8	11.4	13.0	14.5	16.0
-87.5°	0.0	0.8	1.7	2.5	3.3	4.1	4.9	5.7	6.5	7.3	8.0
-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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 CATALOG NUMBER: EPH-LS-16-1200L-57-70-2S-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°	8.8	9.5	10.2	10.9	11.6	12.2	12.8	13.4	14.0	14.6	15.1
85°	17.5	19.0	20.0	21.0	22.0	23.0	23.9	24.8	25.6	26.4	27.2
82.5°	24.3	26.0	27.5	29.0	30.5	32.0	33.4	35.1	36.8	38.3	39.8
80°	30.8	32.9	35.5	38.2	40.7	43.1	45.5	47.8	50.0	52.3	54.9
77.5°	38.3	41.7	45.1	48.3	51.7	55.6	59.4	63.0	66.5	69.8	73.0
75°	46.4	50.5	55.5	60.5	65.4	70.1	75.8	87.7	99.2	110.2	120.6
72.5°	55.4	61.6	67.5	73.4	87.8	102.9	117.4	131.4	158.6	194.3	228.1
70°	65.6	72.6	88.8	107.1	124.8	151.0	197.2	241.7	284.4	333.9	398.3
67.5°	78.5	100.0	121.0	149.6	205.0	258.8	310.8	393.2	473.0	549.4	627.1
65°	105.6	129.4	180.7	244.0	305.6	400.5	496.4	589.0	696.3	802.1	902.9
62.5°	132.2	196.4	267.5	353.5	465.8	574.8	699.5	826.2	948.1	1080.7	1209.2
60°	196.4	275.4	379.7	505.2	633.8	781.6	924.9	1079.0	1232.9	1381.0	1542.8
57.5°	267.5	379.7	518.4	666.8	831.3	995.9	1175.2	1348.7	1536.4	1720.7	1900.2
55°	353.5	505.2	666.8	847.9	1034.5	1233.4	1434.0	1648.8	1856.4	2070.6	2275.7
52.5°	465.8	633.8	831.3	1034.5	1252.8	1479.0	1716.8	1954.5	2194.0	2431.3	2676.8
50°	574.8	781.6	995.9	1233.4	1479.0	1739.6	2003.9	2268.8	2542.9	2817.3	3093.6
47.5°	699.5	924.9	1175.2	1434.0	1716.8	2003.9	2293.8	2599.0	2902.5	3218.0	3524.0
45°	826.2	1079.0	1348.7	1648.8	1954.5	2268.8	2599.0	2931.0	3280.8	3609.5	3892.2
42.5°	948.1	1232.9	1536.4	1856.4	2194.0	2542.9	2902.5	3280.8	3637.2	3948.4	4179.2
40°	1080.7	1381.0	1720.7	2070.6	2431.3	2817.3	3218.0	3609.5	3948.4	4196.1	4383.8
37.5°	1209.2	1542.8	1900.2	2275.7	2676.8	3093.6	3524.0	3892.2	4179.2	4383.8	4734.7
35°	1331.3	1696.5	2080.3	2482.9	2911.0	3366.9	3780.8	4128.8	4349.4	4702.9	5623.7
32.5°	1456.8	1841.9	2250.8	2688.5	3150.5	3616.0	4022.6	4281.2	4608.2	5267.1	7451.4
30°	1580.9	1987.7	2416.3	2882.0	3377.9	3828.7	4180.6	4452.3	4887.5	6906.0	8946.8
27.5°	1696.5	2124.4	2582.4	3074.1	3584.8	4028.1	4307.2	4698.0	6009.6	8371.2	10232.3
25°	1803.3	2250.8	2736.2	3256.0	3756.1	4158.3	4450.9	4927.3	7364.2	9499.8	10863.0
22.5°	1904.5	2366.8	2877.0	3422.9	3913.4	4258.8	4647.2	5944.3	8497.3	10517.0	11298.3
20°	1999.2	2482.9	3010.8	3570.4	4056.2	4350.1	4825.9	7006.2	9387.5	10888.5	11675.6
17.5°	2083.6	2586.4	3134.2	3687.5	4140.8	4463.2	5103.2	7959.8	10188.7	11223.6	12006.3
15°	2157.2	2676.8	3242.1	3789.9	4206.7	4592.8	5877.2	8638.2	10651.9	11512.5	12298.9
12.5°	2219.9	2753.9	3334.2	3877.4	4263.0	4703.6	6540.4	9197.9	10887.1	11745.8	12535.8
10°	2271.6	2817.3	3410.0	3949.5	4309.5	4795.2	7088.8	9661.3	11082.1	11939.5	12733.1
7.5°	2311.9	2866.9	3469.3	4006.0	4345.9	4867.0	7519.0	10025.3	11235.5	12092.2	12888.8
5°	2340.8	2902.5	3511.9	4046.5	4372.0	4918.6	7828.3	10287.3	11346.0	12202.3	13001.3
2.5°	2358.2	2923.9	3537.5	4070.9	4387.7	4949.6	8014.7	10445.2	11412.7	12268.8	13069.2
0°	2364.0	2931.0	3546.0	4079.0	4393.0	4960.0	8077.0	10498.0	11435.0	12291.0	13092.0
-2.5°	2358.2	2923.9	3537.5	4070.9	4387.7	4949.6	8014.7	10445.2	11412.7	12268.8	13069.2
-5°	2340.8	2902.5	3511.9	4046.5	4372.0	4918.6	7828.3	10287.3	11346.0	12202.3	13001.3
-7.5°	2311.9	2866.9	3469.3	4006.0	4345.9	4867.0	7519.0	10025.3	11235.5	12092.2	12888.8
-10°	2271.6	2817.3	3410.0	3949.5	4309.5	4795.2	7088.8	9661.3	11082.1	11939.5	12733.1
-12.5°	2219.9	2753.9	3334.2	3877.4	4263.0	4703.6	6540.4	9197.9	10887.1	11745.8	12535.8
-15°	2157.2	2676.8	3242.1	3789.9	4206.7	4592.8	5877.2	8638.2	10651.9	11512.5	12298.9
-17.5°	2083.6	2586.4	3134.2	3687.5	4140.8	4463.2	5103.2	7959.8	10188.7	11223.6	12006.3
-20°	1999.2	2482.9	3010.8	3570.4	4056.2	4350.1	4825.9	7006.2	9387.5	10888.5	11675.6



REPORT NUMBER: P699911 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-70-2S-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1904.5	2366.8	2877.0	3422.9	3913.4	4258.8	4647.2	5944.3	8497.3	10517.0	11298.3
-25°	1803.3	2250.8	2736.2	3256.0	3756.1	4158.3	4450.9	4927.3	7364.2	9499.8	10863.0
-27.5°	1696.5	2124.4	2582.4	3074.1	3584.8	4028.1	4307.2	4698.0	6009.6	8371.2	10232.3
-30°	1580.9	1987.7	2416.3	2882.0	3377.9	3828.7	4180.6	4452.3	4887.5	6906.0	8946.8
-32.5°	1456.8	1841.9	2250.8	2688.5	3150.5	3616.0	4022.6	4281.2	4608.2	5267.1	7451.4
-35°	1331.3	1696.5	2080.3	2482.9	2911.0	3366.9	3780.8	4128.8	4349.4	4702.9	5623.7
-37.5°	1209.2	1542.8	1900.2	2275.7	2676.8	3093.6	3524.0	3892.2	4179.2	4383.8	4734.7
-40°	1080.7	1381.0	1720.7	2070.6	2431.3	2817.3	3218.0	3609.5	3948.4	4196.1	4383.8
-42.5°	948.1	1232.9	1536.4	1856.4	2194.0	2542.9	2902.5	3280.8	3637.2	3948.4	4179.2
-45°	826.2	1079.0	1348.7	1648.8	1954.5	2268.8	2599.0	2931.0	3280.8	3609.5	3892.2
-47.5°	699.5	924.9	1175.2	1434.0	1716.8	2003.9	2293.8	2599.0	2902.5	3218.0	3524.0
-50°	574.8	781.6	995.9	1233.4	1479.0	1739.6	2003.9	2268.8	2542.9	2817.3	3093.6
-52.5°	465.8	633.8	831.3	1034.5	1252.8	1479.0	1716.8	1954.5	2194.0	2431.3	2676.8
-55°	353.5	505.2	666.8	847.9	1034.5	1233.4	1434.0	1648.8	1856.4	2070.6	2275.7
-57.5°	267.5	379.7	518.4	666.8	831.3	995.9	1175.2	1348.7	1536.4	1720.7	1900.2
-60°	196.4	275.4	379.7	505.2	633.8	781.6	924.9	1079.0	1232.9	1381.0	1542.8
-62.5°	132.2	196.4	267.5	353.5	465.8	574.8	699.5	826.2	948.1	1080.7	1209.2
-65°	105.6	129.4	180.7	244.0	305.6	400.5	496.4	589.0	696.3	802.1	902.9
-67.5°	78.5	100.0	121.0	149.6	205.0	258.8	310.8	393.2	473.0	549.4	627.1
-70°	65.6	72.6	88.8	107.1	124.8	151.0	197.2	241.7	284.4	333.9	398.3
-72.5°	55.4	61.6	67.5	73.4	87.8	102.9	117.4	131.4	158.6	194.3	228.1
-75°	46.4	50.5	55.5	60.5	65.4	70.1	75.8	87.7	99.2	110.2	120.6
-77.5°	38.3	41.7	45.1	48.3	51.7	55.6	59.4	63.0	66.5	69.8	73.0
-80°	30.8	32.9	35.5	38.2	40.7	43.1	45.5	47.8	50.0	52.3	54.9
-82.5°	24.3	26.0	27.5	29.0	30.5	32.0	33.4	35.1	36.8	38.3	39.8
-85°	17.5	19.0	20.0	21.0	22.0	23.0	23.9	24.8	25.6	26.4	27.2
-87.5°	8.8	9.5	10.2	10.9	11.6	12.2	12.8	13.4	14.0	14.6	15.1
-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: P699911 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-70-2S-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°	15.6	16.0	16.5	16.9	17.2	17.6	17.9	18.1	18.4	18.5	18.7
85°	27.9	28.6	29.2	29.8	30.4	30.9	31.3	31.7	32.0	32.3	32.6
82.5°	41.2	42.5	43.7	44.9	45.9	46.9	47.7	48.5	49.1	49.7	50.2
80°	57.2	59.5	61.6	63.5	65.3	66.9	68.4	69.7	70.8	71.8	72.6
77.5°	79.4	87.1	94.2	100.9	107.1	112.7	117.7	122.2	126.1	129.4	132.1
75°	130.5	144.6	168.7	191.0	211.6	230.4	247.3	262.3	275.4	286.5	295.7
72.5°	260.2	290.4	323.0	366.5	406.5	443.1	476.0	505.2	530.7	552.4	570.2
70°	459.3	516.8	570.6	625.1	682.3	734.5	781.6	823.4	859.9	890.9	916.4
67.5°	712.7	793.4	869.1	939.4	1010.7	1079.0	1140.6	1195.4	1243.1	1283.8	1317.2
65°	1004.2	1108.3	1205.9	1296.7	1381.0	1468.8	1548.2	1618.7	1680.3	1732.7	1775.8
62.5°	1331.3	1456.8	1580.9	1696.5	1803.3	1904.5	1999.2	2083.6	2157.2	2219.9	2271.6
60°	1696.5	1841.9	1987.7	2124.4	2250.8	2366.8	2482.9	2586.4	2676.8	2753.9	2817.3
57.5°	2080.3	2250.8	2416.3	2582.4	2736.2	2877.0	3010.8	3134.2	3242.1	3334.2	3410.0
55°	2482.9	2688.5	2882.0	3074.1	3256.0	3422.9	3570.4	3687.5	3789.9	3877.4	3949.5
52.5°	2911.0	3150.5	3377.9	3584.8	3756.1	3913.4	4056.2	4140.8	4206.7	4263.0	4309.5
50°	3366.9	3616.0	3828.7	4028.1	4158.3	4258.8	4350.1	4463.2	4592.8	4703.6	4795.2
47.5°	3780.8	4022.6	4180.6	4307.2	4450.9	4647.2	4825.9	5103.2	5877.2	6540.4	7088.8
45°	4128.8	4281.2	4452.3	4698.0	4927.3	5944.3	7006.2	7959.8	8638.2	9197.9	9661.3
42.5°	4349.4	4608.2	4887.5	6009.6	7364.2	8497.3	9387.5	10188.7	10651.9	10887.1	11082.1
40°	4702.9	5267.1	6906.0	8371.2	9499.8	10517.0	10888.5	11223.6	11512.5	11745.8	11939.5
37.5°	5623.7	7451.4	8946.8	10232.3	10863.0	11298.3	11675.6	12006.3	12298.9	12535.8	12733.1
35°	7634.5	9237.8	10568.0	11098.4	11584.5	12011.2	12397.2	12731.3	13028.4	13285.0	13499.1
32.5°	9237.8	10626.0	11217.5	11752.0	12240.0	12671.2	13067.2	13426.6	13747.4	14049.4	14322.7
30°	10568.0	11217.5	11808.3	12351.9	12838.9	13296.3	13720.4	14145.6	14552.8	14930.5	15308.6
27.5°	11098.4	11752.0	12351.9	12895.4	13412.7	13902.7	14436.1	14953.9	15513.2	16003.8	17113.9
25°	11584.5	12240.0	12838.9	13412.7	13973.9	14584.2	15245.6	15916.1	17397.7	18838.9	22410.7
22.5°	12011.2	12671.2	13296.3	13902.7	14584.2	15344.2	16318.3	18264.4	22328.0	28111.7	36376.0
20°	12397.2	13067.2	13720.4	14436.1	15245.6	16318.3	18558.4	24592.6	32948.7	48656.7	63919.2
17.5°	12731.3	13426.6	14145.6	14953.9	15916.1	18264.4	24592.6	35951.1	55023.6	80433.5	105164.8
15°	13028.4	13747.4	14552.8	15513.2	17397.7	22328.0	32948.7	55023.6	86097.9	122858.5	164942.8
12.5°	13285.0	14049.4	14930.5	16003.8	18838.9	28111.7	48656.7	80433.5	122858.5	175164.2	244773.9
10°	13499.1	14322.7	15308.6	17113.9	22410.7	36376.0	63919.2	105164.8	164942.8	244773.9	328476.9
7.5°	13668.5	14539.5	15609.6	18004.0	26014.2	46277.6	82043.4	135465.3	211372.6	307598.3	414895.3
5°	13791.0	14696.7	15828.5	18653.6	28655.5	53577.5	95508.5	158788.0	251881.1	362588.7	486659.2
2.5°	13865.2	14792.1	15961.4	19049.1	30269.1	58055.8	103817.4	173297.7	277386.4	400270.1	533332.2
0°	13890.0	14824.0	16006.0	19182.0	30811.9	59565.9	106627.8	178227.7	286111.5	413636.8	549722.0
-2.5°	13865.2	14792.1	15961.4	19049.1	30269.1	58055.8	103817.4	173297.7	277386.4	400270.1	533332.2
-5°	13791.0	14696.7	15828.5	18653.6	28655.5	53577.5	95508.5	158788.0	251881.1	362588.7	486659.2
-7.5°	13668.5	14539.5	15609.6	18004.0	26014.2	46277.6	82043.4	135465.3	211372.6	307598.3	414895.3
-10°	13499.1	14322.7	15308.6	17113.9	22410.7	36376.0	63919.2	105164.8	164942.8	244773.9	328476.9
-12.5°	13285.0	14049.4	14930.5	16003.8	18838.9	28111.7	48656.7	80433.5	122858.5	175164.2	244773.9
-15°	13028.4	13747.4	14552.8	15513.2	17397.7	22328.0	32948.7	55023.6	86097.9	122858.5	164942.8
-17.5°	12731.3	13426.6	14145.6	14953.9	15916.1	18264.4	24592.6	35951.1	55023.6	80433.5	105164.8
-20°	12397.2	13067.2	13720.4	14436.1	15245.6	16318.3	18558.4	24592.6	32948.7	48656.7	63919.2



REPORT NUMBER: P699911 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-70-2S-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	12011.2	12671.2	13296.3	13902.7	14584.2	15344.2	16318.3	18264.4	22328.0	28111.7	36376.0
-25°	11584.5	12240.0	12838.9	13412.7	13973.9	14584.2	15245.6	15916.1	17397.7	18838.9	22410.7
-27.5°	11098.4	11752.0	12351.9	12895.4	13412.7	13902.7	14436.1	14953.9	15513.2	16003.8	17113.9
-30°	10568.0	11217.5	11808.3	12351.9	12838.9	13296.3	13720.4	14145.6	14552.8	14930.5	15308.6
-32.5°	9237.8	10626.0	11217.5	11752.0	12240.0	12671.2	13067.2	13426.6	13747.4	14049.4	14322.7
-35°	7634.5	9237.8	10568.0	11098.4	11584.5	12011.2	12397.2	12731.3	13028.4	13285.0	13499.1
-37.5°	5623.7	7451.4	8946.8	10232.3	10863.0	11298.3	11675.6	12006.3	12298.9	12535.8	12733.1
-40°	4702.9	5267.1	6906.0	8371.2	9499.8	10517.0	10888.5	11223.6	11512.5	11745.8	11939.5
-42.5°	4349.4	4608.2	4887.5	6009.6	7364.2	8497.3	9387.5	10188.7	10651.9	10887.1	11082.1
-45°	4128.8	4281.2	4452.3	4698.0	4927.3	5944.3	7006.2	7959.8	8638.2	9197.9	9661.3
-47.5°	3780.8	4022.6	4180.6	4307.2	4450.9	4647.2	4825.9	5103.2	5877.2	6540.4	7088.8
-50°	3366.9	3616.0	3828.7	4028.1	4158.3	4258.8	4350.1	4463.2	4592.8	4703.6	4795.2
-52.5°	2911.0	3150.5	3377.9	3584.8	3756.1	3913.4	4056.2	4140.8	4206.7	4263.0	4309.5
-55°	2482.9	2688.5	2882.0	3074.1	3256.0	3422.9	3570.4	3687.5	3789.9	3877.4	3949.5
-57.5°	2080.3	2250.8	2416.3	2582.4	2736.2	2877.0	3010.8	3134.2	3242.1	3334.2	3410.0
-60°	1696.5	1841.9	1987.7	2124.4	2250.8	2366.8	2482.9	2586.4	2676.8	2753.9	2817.3
-62.5°	1331.3	1456.8	1580.9	1696.5	1803.3	1904.5	1999.2	2083.6	2157.2	2219.9	2271.6
-65°	1004.2	1108.3	1205.9	1296.7	1381.0	1468.8	1548.2	1618.7	1680.3	1732.7	1775.8
-67.5°	712.7	793.4	869.1	939.4	1010.7	1079.0	1140.6	1195.4	1243.1	1283.8	1317.2
-70°	459.3	516.8	570.6	625.1	682.3	734.5	781.6	823.4	859.9	890.9	916.4
-72.5°	260.2	290.4	323.0	366.5	406.5	443.1	476.0	505.2	530.7	552.4	570.2
-75°	130.5	144.6	168.7	191.0	211.6	230.4	247.3	262.3	275.4	286.5	295.7
-77.5°	79.4	87.1	94.2	100.9	107.1	112.7	117.7	122.2	126.1	129.4	132.1
-80°	57.2	59.5	61.6	63.5	65.3	66.9	68.4	69.7	70.8	71.8	72.6
-82.5°	41.2	42.5	43.7	44.9	45.9	46.9	47.7	48.5	49.1	49.7	50.2
-85°	27.9	28.6	29.2	29.8	30.4	30.9	31.3	31.7	32.0	32.3	32.6
-87.5°	15.6	16.0	16.5	16.9	17.2	17.6	17.9	18.1	18.4	18.5	18.7
-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: P699911 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-70-2S-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°	18.8	18.9	19.0	19.0	19.0	18.9	18.8	18.7	18.5	18.4	18.1
85°	32.8	32.9	33.0	33.0	33.0	32.9	32.8	32.6	32.3	32.0	31.7
82.5°	50.5	50.8	50.9	51.0	50.9	50.8	50.5	50.2	49.7	49.1	48.5
80°	73.2	73.6	73.9	74.0	73.9	73.6	73.2	72.6	71.8	70.8	69.7
77.5°	134.3	135.8	136.7	137.0	136.7	135.8	134.3	132.1	129.4	126.1	122.2
75°	302.8	307.9	311.0	312.0	311.0	307.9	302.8	295.7	286.5	275.4	262.3
72.5°	584.1	594.0	600.0	602.0	600.0	594.0	584.1	570.2	552.4	530.7	505.2
70°	936.3	950.6	959.1	962.0	959.1	950.6	936.3	916.4	890.9	859.9	823.4
67.5°	1343.3	1362.0	1373.3	1377.0	1373.3	1362.0	1343.3	1317.2	1283.8	1243.1	1195.4
65°	1809.5	1833.7	1848.2	1853.0	1848.2	1833.7	1809.5	1775.8	1732.7	1680.3	1618.7
62.5°	2311.9	2340.8	2358.2	2364.0	2358.2	2340.8	2311.9	2271.6	2219.9	2157.2	2083.6
60°	2866.9	2902.5	2923.9	2931.0	2923.9	2902.5	2866.9	2817.3	2753.9	2676.8	2586.4
57.5°	3469.3	3511.9	3537.5	3546.0	3537.5	3511.9	3469.3	3410.0	3334.2	3242.1	3134.2
55°	4006.0	4046.5	4070.9	4079.0	4070.9	4046.5	4006.0	3949.5	3877.4	3789.9	3687.5
52.5°	4345.9	4372.0	4387.7	4393.0	4387.7	4372.0	4345.9	4309.5	4263.0	4206.7	4140.8
50°	4867.0	4918.6	4949.6	4960.0	4949.6	4918.6	4867.0	4795.2	4703.6	4592.8	4463.2
47.5°	7519.0	7828.3	8014.7	8077.0	8014.7	7828.3	7519.0	7088.8	6540.4	5877.2	5103.2
45°	10025.3	10287.3	10445.2	10498.0	10445.2	10287.3	10025.3	9661.3	9197.9	8638.2	7959.8
42.5°	11235.5	11346.0	11412.7	11435.0	11412.7	11346.0	11235.5	11082.1	10887.1	10651.9	10188.7
40°	12092.2	12202.3	12268.8	12291.0	12268.8	12202.3	12092.2	11939.5	11745.8	11512.5	11223.6
37.5°	12888.8	13001.3	13069.2	13092.0	13069.2	13001.3	12888.8	12733.1	12535.8	12298.9	12006.3
35°	13668.5	13791.0	13865.2	13890.0	13865.2	13791.0	13668.5	13499.1	13285.0	13028.4	12731.3
32.5°	14539.5	14696.7	14792.1	14824.0	14792.1	14696.7	14539.5	14322.7	14049.4	13747.4	13426.6
30°	15609.6	15828.5	15961.4	16006.0	15961.4	15828.5	15609.6	15308.6	14930.5	14552.8	14145.6
27.5°	18004.0	18653.6	19049.1	19182.0	19049.1	18653.6	18004.0	17113.9	16003.8	15513.2	14953.9
25°	26014.2	28655.5	30269.1	30811.9	30269.1	28655.5	26014.2	22410.7	18838.9	17397.7	15916.1
22.5°	46277.6	53577.5	58055.8	59565.9	58055.8	53577.5	46277.6	36376.0	28111.7	22328.0	18264.4
20°	82043.4	95508.5	103817.4	106627.8	103817.4	95508.5	82043.4	63919.2	48656.7	32948.7	24592.6
17.5°	135465.3	158788.0	173297.7	178227.7	173297.7	158788.0	135465.3	105164.8	80433.5	55023.6	35951.1
15°	211372.6	251881.1	277386.4	286111.5	277386.4	251881.1	211372.6	164942.8	122858.5	86097.9	55023.6
12.5°	307598.3	362588.7	400270.1	413636.8	400270.1	362588.7	307598.3	244773.9	175164.2	122858.5	80433.5
10°	414895.3	486659.2	533332.2	549722.0	533332.2	486659.2	414895.3	328476.9	244773.9	164942.8	105164.8
7.5°	517907.7	606401.2	669758.4	691339.3	669758.4	606401.2	517907.7	414895.3	307598.3	211372.6	135465.3
5°	606401.2	714524.5	779355.9	802081.6	779355.9	714524.5	606401.2	486659.2	362588.7	251881.1	158788.0
2.5°	669758.4	779355.9	852749.7	886217.0	852749.7	779355.9	669758.4	533332.2	400270.1	277386.4	173297.7
0°	691339.3	802081.6	886217.0	932657.4	886217.0	802081.6	691339.3	549722.0	413636.8	286111.5	178227.7
-2.5°	669758.4	779355.9	852749.7	886217.0	852749.7	779355.9	669758.4	533332.2	400270.1	277386.4	173297.7
-5°	606401.2	714524.5	779355.9	802081.6	779355.9	714524.5	606401.2	486659.2	362588.7	251881.1	158788.0
-7.5°	517907.7	606401.2	669758.4	691339.3	669758.4	606401.2	517907.7	414895.3	307598.3	211372.6	135465.3
-10°	414895.3	486659.2	533332.2	549722.0	533332.2	486659.2	414895.3	328476.9	244773.9	164942.8	105164.8
-12.5°	307598.3	362588.7	400270.1	413636.8	400270.1	362588.7	307598.3	244773.9	175164.2	122858.5	80433.5
-15°	211372.6	251881.1	277386.4	286111.5	277386.4	251881.1	211372.6	164942.8	122858.5	86097.9	55023.6
-17.5°	135465.3	158788.0	173297.7	178227.7	173297.7	158788.0	135465.3	105164.8	80433.5	55023.6	35951.1
-20°	82043.4	95508.5	103817.4	106627.8	103817.4	95508.5	82043.4	63919.2	48656.7	32948.7	24592.6



REPORT NUMBER: P699911 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-70-2S-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	46277.6	53577.5	58055.8	59565.9	58055.8	53577.5	46277.6	36376.0	28111.7	22328.0	18264.4
-25°	26014.2	28655.5	30269.1	30811.9	30269.1	28655.5	26014.2	22410.7	18838.9	17397.7	15916.1
-27.5°	18004.0	18653.6	19049.1	19182.0	19049.1	18653.6	18004.0	17113.9	16003.8	15513.2	14953.9
-30°	15609.6	15828.5	15961.4	16006.0	15961.4	15828.5	15609.6	15308.6	14930.5	14552.8	14145.6
-32.5°	14539.5	14696.7	14792.1	14824.0	14792.1	14696.7	14539.5	14322.7	14049.4	13747.4	13426.6
-35°	13668.5	13791.0	13865.2	13890.0	13865.2	13791.0	13668.5	13499.1	13285.0	13028.4	12731.3
-37.5°	12888.8	13001.3	13069.2	13092.0	13069.2	13001.3	12888.8	12733.1	12535.8	12298.9	12006.3
-40°	12092.2	12202.3	12268.8	12291.0	12268.8	12202.3	12092.2	11939.5	11745.8	11512.5	11223.6
-42.5°	11235.5	11346.0	11412.7	11435.0	11412.7	11346.0	11235.5	11082.1	10887.1	10651.9	10188.7
-45°	10025.3	10287.3	10445.2	10498.0	10445.2	10287.3	10025.3	9661.3	9197.9	8638.2	7959.8
-47.5°	7519.0	7828.3	8014.7	8077.0	8014.7	7828.3	7519.0	7088.8	6540.4	5877.2	5103.2
-50°	4867.0	4918.6	4949.6	4960.0	4949.6	4918.6	4867.0	4795.2	4703.6	4592.8	4463.2
-52.5°	4345.9	4372.0	4387.7	4393.0	4387.7	4372.0	4345.9	4309.5	4263.0	4206.7	4140.8
-55°	4006.0	4046.5	4070.9	4079.0	4070.9	4046.5	4006.0	3949.5	3877.4	3789.9	3687.5
-57.5°	3469.3	3511.9	3537.5	3546.0	3537.5	3511.9	3469.3	3410.0	3334.2	3242.1	3134.2
-60°	2866.9	2902.5	2923.9	2931.0	2923.9	2902.5	2866.9	2817.3	2753.9	2676.8	2586.4
-62.5°	2311.9	2340.8	2358.2	2364.0	2358.2	2340.8	2311.9	2271.6	2219.9	2157.2	2083.6
-65°	1809.5	1833.7	1848.2	1853.0	1848.2	1833.7	1809.5	1775.8	1732.7	1680.3	1618.7
-67.5°	1343.3	1362.0	1373.3	1377.0	1373.3	1362.0	1343.3	1317.2	1283.8	1243.1	1195.4
-70°	936.3	950.6	959.1	962.0	959.1	950.6	936.3	916.4	890.9	859.9	823.4
-72.5°	584.1	594.0	600.0	602.0	600.0	594.0	584.1	570.2	552.4	530.7	505.2
-75°	302.8	307.9	311.0	312.0	311.0	307.9	302.8	295.7	286.5	275.4	262.3
-77.5°	134.3	135.8	136.7	137.0	136.7	135.8	134.3	132.1	129.4	126.1	122.2
-80°	73.2	73.6	73.9	74.0	73.9	73.6	73.2	72.6	71.8	70.8	69.7
-82.5°	50.5	50.8	50.9	51.0	50.9	50.8	50.5	50.2	49.7	49.1	48.5
-85°	32.8	32.9	33.0	33.0	33.0	32.9	32.8	32.6	32.3	32.0	31.7
-87.5°	18.8	18.9	19.0	19.0	19.0	18.9	18.8	18.7	18.5	18.4	18.1
-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: P699911 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-70-2S-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°	17.9	17.6	17.2	16.9	16.5	16.0	15.6	15.1	14.6	14.0	13.4
85°	31.3	30.9	30.4	29.8	29.2	28.6	27.9	27.2	26.4	25.6	24.8
82.5°	47.7	46.9	45.9	44.9	43.7	42.5	41.2	39.8	38.3	36.8	35.1
80°	68.4	66.9	65.3	63.5	61.6	59.5	57.2	54.9	52.3	50.0	47.8
77.5°	117.7	112.7	107.1	100.9	94.2	87.1	79.4	73.0	69.8	66.5	63.0
75°	247.3	230.4	211.6	191.0	168.7	144.6	130.5	120.6	110.2	99.2	87.7
72.5°	476.0	443.1	406.5	366.5	323.0	290.4	260.2	228.1	194.3	158.6	131.4
70°	781.6	734.5	682.3	625.1	570.6	516.8	459.3	398.3	333.9	284.4	241.7
67.5°	1140.6	1079.0	1010.7	939.4	869.1	793.4	712.7	627.1	549.4	473.0	393.2
65°	1548.2	1468.8	1381.0	1296.7	1205.9	1108.3	1004.2	902.9	802.1	696.3	589.0
62.5°	1999.2	1904.5	1803.3	1696.5	1580.9	1456.8	1331.3	1209.2	1080.7	948.1	826.2
60°	2482.9	2366.8	2250.8	2124.4	1987.7	1841.9	1696.5	1542.8	1381.0	1232.9	1079.0
57.5°	3010.8	2877.0	2736.2	2582.4	2416.3	2250.8	2080.3	1900.2	1720.7	1536.4	1348.7
55°	3570.4	3422.9	3256.0	3074.1	2882.0	2688.5	2482.9	2275.7	2070.6	1856.4	1648.8
52.5°	4056.2	3913.4	3756.1	3584.8	3377.9	3150.5	2911.0	2676.8	2431.3	2194.0	1954.5
50°	4350.1	4258.8	4158.3	4028.1	3828.7	3616.0	3366.9	3093.6	2817.3	2542.9	2268.8
47.5°	4825.9	4647.2	4450.9	4307.2	4180.6	4022.6	3780.8	3524.0	3218.0	2902.5	2599.0
45°	7006.2	5944.3	4927.3	4698.0	4452.3	4281.2	4128.8	3892.2	3609.5	3280.8	2931.0
42.5°	9387.5	8497.3	7364.2	6009.6	4887.5	4608.2	4349.4	4179.2	3948.4	3637.2	3280.8
40°	10888.5	10517.0	9499.8	8371.2	6906.0	5267.1	4702.9	4383.8	4196.1	3948.4	3609.5
37.5°	11675.6	11298.3	10863.0	10232.3	8946.8	7451.4	5623.7	4734.7	4383.8	4179.2	3892.2
35°	12397.2	12011.2	11584.5	11098.4	10568.0	9237.8	7634.5	5623.7	4702.9	4349.4	4128.8
32.5°	13067.2	12671.2	12240.0	11752.0	11217.5	10626.0	9237.8	7451.4	5267.1	4608.2	4281.2
30°	13720.4	13296.3	12838.9	12351.9	11808.3	11217.5	10568.0	8946.8	6906.0	4887.5	4452.3
27.5°	14436.1	13902.7	13412.7	12895.4	12351.9	11752.0	11098.4	10232.3	8371.2	6009.6	4698.0
25°	15245.6	14584.2	13973.9	13412.7	12838.9	12240.0	11584.5	10863.0	9499.8	7364.2	4927.3
22.5°	16318.3	15344.2	14584.2	13902.7	13296.3	12671.2	12011.2	11298.3	10517.0	8497.3	5944.3
20°	18558.4	16318.3	15245.6	14436.1	13720.4	13067.2	12397.2	11675.6	10888.5	9387.5	7006.2
17.5°	24592.6	18264.4	15916.1	14953.9	14145.6	13426.6	12731.3	12006.3	11223.6	10188.7	7959.8
15°	32948.7	22328.0	17397.7	15513.2	14552.8	13747.4	13028.4	12298.9	11512.5	10651.9	8638.2
12.5°	48656.7	28111.7	18838.9	16003.8	14930.5	14049.4	13285.0	12535.8	11745.8	10887.1	9197.9
10°	63919.2	36376.0	22410.7	17113.9	15308.6	14322.7	13499.1	12733.1	11939.5	11082.1	9661.3
7.5°	82043.4	46277.6	26014.2	18004.0	15609.6	14539.5	13668.5	12888.8	12092.2	11235.5	10025.3
5°	95508.5	53577.5	28655.5	18653.6	15828.5	14696.7	13791.0	13001.3	12202.3	11346.0	10287.3
2.5°	103817.4	58055.8	30269.1	19049.1	15961.4	14792.1	13865.2	13069.2	12268.8	11412.7	10445.2
0°	106627.8	59565.9	30811.9	19182.0	16006.0	14824.0	13890.0	13092.0	12291.0	11435.0	10498.0
-2.5°	103817.4	58055.8	30269.1	19049.1	15961.4	14792.1	13865.2	13069.2	12268.8	11412.7	10445.2
-5°	95508.5	53577.5	28655.5	18653.6	15828.5	14696.7	13791.0	13001.3	12202.3	11346.0	10287.3
-7.5°	82043.4	46277.6	26014.2	18004.0	15609.6	14539.5	13668.5	12888.8	12092.2	11235.5	10025.3
-10°	63919.2	36376.0	22410.7	17113.9	15308.6	14322.7	13499.1	12733.1	11939.5	11082.1	9661.3
-12.5°	48656.7	28111.7	18838.9	16003.8	14930.5	14049.4	13285.0	12535.8	11745.8	10887.1	9197.9
-15°	32948.7	22328.0	17397.7	15513.2	14552.8	13747.4	13028.4	12298.9	11512.5	10651.9	8638.2
-17.5°	24592.6	18264.4	15916.1	14953.9	14145.6	13426.6	12731.3	12006.3	11223.6	10188.7	7959.8
-20°	18558.4	16318.3	15245.6	14436.1	13720.4	13067.2	12397.2	11675.6	10888.5	9387.5	7006.2



REPORT NUMBER: P699911 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-70-2S-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	16318.3	15344.2	14584.2	13902.7	13296.3	12671.2	12011.2	11298.3	10517.0	8497.3	5944.3
-25°	15245.6	14584.2	13973.9	13412.7	12838.9	12240.0	11584.5	10863.0	9499.8	7364.2	4927.3
-27.5°	14436.1	13902.7	13412.7	12895.4	12351.9	11752.0	11098.4	10232.3	8371.2	6009.6	4698.0
-30°	13720.4	13296.3	12838.9	12351.9	11808.3	11217.5	10568.0	8946.8	6906.0	4887.5	4452.3
-32.5°	13067.2	12671.2	12240.0	11752.0	11217.5	10626.0	9237.8	7451.4	5267.1	4608.2	4281.2
-35°	12397.2	12011.2	11584.5	11098.4	10568.0	9237.8	7634.5	5623.7	4702.9	4349.4	4128.8
-37.5°	11675.6	11298.3	10863.0	10232.3	8946.8	7451.4	5623.7	4734.7	4383.8	4179.2	3892.2
-40°	10888.5	10517.0	9499.8	8371.2	6906.0	5267.1	4702.9	4383.8	4196.1	3948.4	3609.5
-42.5°	9387.5	8497.3	7364.2	6009.6	4887.5	4608.2	4349.4	4179.2	3948.4	3637.2	3280.8
-45°	7006.2	5944.3	4927.3	4698.0	4452.3	4281.2	4128.8	3892.2	3609.5	3280.8	2931.0
-47.5°	4825.9	4647.2	4450.9	4307.2	4180.6	4022.6	3780.8	3524.0	3218.0	2902.5	2599.0
-50°	4350.1	4258.8	4158.3	4028.1	3828.7	3616.0	3366.9	3093.6	2817.3	2542.9	2268.8
-52.5°	4056.2	3913.4	3756.1	3584.8	3377.9	3150.5	2911.0	2676.8	2431.3	2194.0	1954.5
-55°	3570.4	3422.9	3256.0	3074.1	2882.0	2688.5	2482.9	2275.7	2070.6	1856.4	1648.8
-57.5°	3010.8	2877.0	2736.2	2582.4	2416.3	2250.8	2080.3	1900.2	1720.7	1536.4	1348.7
-60°	2482.9	2366.8	2250.8	2124.4	1987.7	1841.9	1696.5	1542.8	1381.0	1232.9	1079.0
-62.5°	1999.2	1904.5	1803.3	1696.5	1580.9	1456.8	1331.3	1209.2	1080.7	948.1	826.2
-65°	1548.2	1468.8	1381.0	1296.7	1205.9	1108.3	1004.2	902.9	802.1	696.3	589.0
-67.5°	1140.6	1079.0	1010.7	939.4	869.1	793.4	712.7	627.1	549.4	473.0	393.2
-70°	781.6	734.5	682.3	625.1	570.6	516.8	459.3	398.3	333.9	284.4	241.7
-72.5°	476.0	443.1	406.5	366.5	323.0	290.4	260.2	228.1	194.3	158.6	131.4
-75°	247.3	230.4	211.6	191.0	168.7	144.6	130.5	120.6	110.2	99.2	87.7
-77.5°	117.7	112.7	107.1	100.9	94.2	87.1	79.4	73.0	69.8	66.5	63.0
-80°	68.4	66.9	65.3	63.5	61.6	59.5	57.2	54.9	52.3	50.0	47.8
-82.5°	47.7	46.9	45.9	44.9	43.7	42.5	41.2	39.8	38.3	36.8	35.1
-85°	31.3	30.9	30.4	29.8	29.2	28.6	27.9	27.2	26.4	25.6	24.8
-87.5°	17.9	17.6	17.2	16.9	16.5	16.0	15.6	15.1	14.6	14.0	13.4
-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: P699911 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-70-2S-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°	12.8	12.2	11.6	10.9	10.2	9.5	8.8	8.0	7.3	6.5	5.7
85°	23.9	23.0	22.0	21.0	20.0	19.0	17.5	16.0	14.5	13.0	11.4
82.5°	33.4	32.0	30.5	29.0	27.5	26.0	24.3	22.7	21.0	19.3	17.1
80°	45.5	43.1	40.7	38.2	35.5	32.9	30.8	28.6	26.3	24.1	21.8
77.5°	59.4	55.6	51.7	48.3	45.1	41.7	38.3	34.8	31.6	28.8	25.9
75°	75.8	70.1	65.4	60.5	55.5	50.5	46.4	42.2	37.9	33.6	30.0
72.5°	117.4	102.9	87.8	73.4	67.5	61.6	55.4	49.6	44.6	39.5	34.4
70°	197.2	151.0	124.8	107.1	88.8	72.6	65.6	58.5	51.2	45.4	39.5
67.5°	310.8	258.8	205.0	149.6	121.0	100.0	78.5	67.6	59.5	51.2	44.6
65°	496.4	400.5	305.6	244.0	180.7	129.4	105.6	81.3	67.6	58.5	49.6
62.5°	699.5	574.8	465.8	353.5	267.5	196.4	132.2	105.6	78.5	65.6	55.4
60°	924.9	781.6	633.8	505.2	379.7	275.4	196.4	129.4	100.0	72.6	61.6
57.5°	1175.2	995.9	831.3	666.8	518.4	379.7	267.5	180.7	121.0	88.8	67.5
55°	1434.0	1233.4	1034.5	847.9	666.8	505.2	353.5	244.0	149.6	107.1	73.4
52.5°	1716.8	1479.0	1252.8	1034.5	831.3	633.8	465.8	305.6	205.0	124.8	87.8
50°	2003.9	1739.6	1479.0	1233.4	995.9	781.6	574.8	400.5	258.8	151.0	102.9
47.5°	2293.8	2003.9	1716.8	1434.0	1175.2	924.9	699.5	496.4	310.8	197.2	117.4
45°	2599.0	2268.8	1954.5	1648.8	1348.7	1079.0	826.2	589.0	393.2	241.7	131.4
42.5°	2902.5	2542.9	2194.0	1856.4	1536.4	1232.9	948.1	696.3	473.0	284.4	158.6
40°	3218.0	2817.3	2431.3	2070.6	1720.7	1381.0	1080.7	802.1	549.4	333.9	194.3
37.5°	3524.0	3093.6	2676.8	2275.7	1900.2	1542.8	1209.2	902.9	627.1	398.3	228.1
35°	3780.8	3366.9	2911.0	2482.9	2080.3	1696.5	1331.3	1004.2	712.7	459.3	260.2
32.5°	4022.6	3616.0	3150.5	2688.5	2250.8	1841.9	1456.8	1108.3	793.4	516.8	290.4
30°	4180.6	3828.7	3377.9	2882.0	2416.3	1987.7	1580.9	1205.9	869.1	570.6	323.0
27.5°	4307.2	4028.1	3584.8	3074.1	2582.4	2124.4	1696.5	1296.7	939.4	625.1	366.5
25°	4450.9	4158.3	3756.1	3256.0	2736.2	2250.8	1803.3	1381.0	1010.7	682.3	406.5
22.5°	4647.2	4258.8	3913.4	3422.9	2877.0	2366.8	1904.5	1468.8	1079.0	734.5	443.1
20°	4825.9	4350.1	4056.2	3570.4	3010.8	2482.9	1999.2	1548.2	1140.6	781.6	476.0
17.5°	5103.2	4463.2	4140.8	3687.5	3134.2	2586.4	2083.6	1618.7	1195.4	823.4	505.2
15°	5877.2	4592.8	4206.7	3789.9	3242.1	2676.8	2157.2	1680.3	1243.1	859.9	530.7
12.5°	6540.4	4703.6	4263.0	3877.4	3334.2	2753.9	2219.9	1732.7	1283.8	890.9	552.4
10°	7088.8	4795.2	4309.5	3949.5	3410.0	2817.3	2271.6	1775.8	1317.2	916.4	570.2
7.5°	7519.0	4867.0	4345.9	4006.0	3469.3	2866.9	2311.9	1809.5	1343.3	936.3	584.1
5°	7828.3	4918.6	4372.0	4046.5	3511.9	2902.5	2340.8	1833.7	1362.0	950.6	594.0
2.5°	8014.7	4949.6	4387.7	4070.9	3537.5	2923.9	2358.2	1848.2	1373.3	959.1	600.0
0°	8077.0	4960.0	4393.0	4079.0	3546.0	2931.0	2364.0	1853.0	1377.0	962.0	602.0
-2.5°	8014.7	4949.6	4387.7	4070.9	3537.5	2923.9	2358.2	1848.2	1373.3	959.1	600.0
-5°	7828.3	4918.6	4372.0	4046.5	3511.9	2902.5	2340.8	1833.7	1362.0	950.6	594.0
-7.5°	7519.0	4867.0	4345.9	4006.0	3469.3	2866.9	2311.9	1809.5	1343.3	936.3	584.1
-10°	7088.8	4795.2	4309.5	3949.5	3410.0	2817.3	2271.6	1775.8	1317.2	916.4	570.2
-12.5°	6540.4	4703.6	4263.0	3877.4	3334.2	2753.9	2219.9	1732.7	1283.8	890.9	552.4
-15°	5877.2	4592.8	4206.7	3789.9	3242.1	2676.8	2157.2	1680.3	1243.1	859.9	530.7
-17.5°	5103.2	4463.2	4140.8	3687.5	3134.2	2586.4	2083.6	1618.7	1195.4	823.4	505.2
-20°	4825.9	4350.1	4056.2	3570.4	3010.8	2482.9	1999.2	1548.2	1140.6	781.6	476.0



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	4647.2	4258.8	3913.4	3422.9	2877.0	2366.8	1904.5	1468.8	1079.0	734.5	443.1
-25°	4450.9	4158.3	3756.1	3256.0	2736.2	2250.8	1803.3	1381.0	1010.7	682.3	406.5
-27.5°	4307.2	4028.1	3584.8	3074.1	2582.4	2124.4	1696.5	1296.7	939.4	625.1	366.5
-30°	4180.6	3828.7	3377.9	2882.0	2416.3	1987.7	1580.9	1205.9	869.1	570.6	323.0
-32.5°	4022.6	3616.0	3150.5	2688.5	2250.8	1841.9	1456.8	1108.3	793.4	516.8	290.4
-35°	3780.8	3366.9	2911.0	2482.9	2080.3	1696.5	1331.3	1004.2	712.7	459.3	260.2
-37.5°	3524.0	3093.6	2676.8	2275.7	1900.2	1542.8	1209.2	902.9	627.1	398.3	228.1
-40°	3218.0	2817.3	2431.3	2070.6	1720.7	1381.0	1080.7	802.1	549.4	333.9	194.3
-42.5°	2902.5	2542.9	2194.0	1856.4	1536.4	1232.9	948.1	696.3	473.0	284.4	158.6
-45°	2599.0	2268.8	1954.5	1648.8	1348.7	1079.0	826.2	589.0	393.2	241.7	131.4
-47.5°	2293.8	2003.9	1716.8	1434.0	1175.2	924.9	699.5	496.4	310.8	197.2	117.4
-50°	2003.9	1739.6	1479.0	1233.4	995.9	781.6	574.8	400.5	258.8	151.0	102.9
-52.5°	1716.8	1479.0	1252.8	1034.5	831.3	633.8	465.8	305.6	205.0	124.8	87.8
-55°	1434.0	1233.4	1034.5	847.9	666.8	505.2	353.5	244.0	149.6	107.1	73.4
-57.5°	1175.2	995.9	831.3	666.8	518.4	379.7	267.5	180.7	121.0	88.8	67.5
-60°	924.9	781.6	633.8	505.2	379.7	275.4	196.4	129.4	100.0	72.6	61.6
-62.5°	699.5	574.8	465.8	353.5	267.5	196.4	132.2	105.6	78.5	65.6	55.4
-65°	496.4	400.5	305.6	244.0	180.7	129.4	105.6	81.3	67.6	58.5	49.6
-67.5°	310.8	258.8	205.0	149.6	121.0	100.0	78.5	67.6	59.5	51.2	44.6
-70°	197.2	151.0	124.8	107.1	88.8	72.6	65.6	58.5	51.2	45.4	39.5
-72.5°	117.4	102.9	87.8	73.4	67.5	61.6	55.4	49.6	44.6	39.5	34.4
-75°	75.8	70.1	65.4	60.5	55.5	50.5	46.4	42.2	37.9	33.6	30.0
-77.5°	59.4	55.6	51.7	48.3	45.1	41.7	38.3	34.8	31.6	28.8	25.9
-80°	45.5	43.1	40.7	38.2	35.5	32.9	30.8	28.6	26.3	24.1	21.8
-82.5°	33.4	32.0	30.5	29.0	27.5	26.0	24.3	22.7	21.0	19.3	17.1
-85°	23.9	23.0	22.0	21.0	20.0	19.0	17.5	16.0	14.5	13.0	11.4
-87.5°	12.8	12.2	11.6	10.9	10.2	9.5	8.8	8.0	7.3	6.5	5.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	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°	4.9	4.1	3.3	2.5	1.7	0.8	0.0
85°	9.8	8.2	6.6	5.0	3.3	1.7	0.0
82.5°	14.7	12.3	9.9	7.4	5.0	2.5	0.0
80°	19.4	16.4	13.1	9.9	6.6	3.3	0.0
77.5°	23.0	20.0	16.4	12.3	8.2	4.1	0.0
75°	26.5	23.0	19.4	14.7	9.8	4.9	0.0
72.5°	30.0	25.9	21.8	17.1	11.4	5.7	0.0
70°	33.6	28.8	24.1	19.3	13.0	6.5	0.0
67.5°	37.9	31.6	26.3	21.0	14.5	7.3	0.0
65°	42.2	34.8	28.6	22.7	16.0	8.0	0.0
62.5°	46.4	38.3	30.8	24.3	17.5	8.8	0.0
60°	50.5	41.7	32.9	26.0	19.0	9.5	0.0
57.5°	55.5	45.1	35.5	27.5	20.0	10.2	0.0
55°	60.5	48.3	38.2	29.0	21.0	10.9	0.0
52.5°	65.4	51.7	40.7	30.5	22.0	11.6	0.0
50°	70.1	55.6	43.1	32.0	23.0	12.2	0.0
47.5°	75.8	59.4	45.5	33.4	23.9	12.8	0.0
45°	87.7	63.0	47.8	35.1	24.8	13.4	0.0
42.5°	99.2	66.5	50.0	36.8	25.6	14.0	0.0
40°	110.2	69.8	52.3	38.3	26.4	14.6	0.0
37.5°	120.6	73.0	54.9	39.8	27.2	15.1	0.0
35°	130.5	79.4	57.2	41.2	27.9	15.6	0.0
32.5°	144.6	87.1	59.5	42.5	28.6	16.0	0.0
30°	168.7	94.2	61.6	43.7	29.2	16.5	0.0
27.5°	191.0	100.9	63.5	44.9	29.8	16.9	0.0
25°	211.6	107.1	65.3	45.9	30.4	17.2	0.0
22.5°	230.4	112.7	66.9	46.9	30.9	17.6	0.0
20°	247.3	117.7	68.4	47.7	31.3	17.9	0.0
17.5°	262.3	122.2	69.7	48.5	31.7	18.1	0.0
15°	275.4	126.1	70.8	49.1	32.0	18.4	0.0
12.5°	286.5	129.4	71.8	49.7	32.3	18.5	0.0
10°	295.7	132.1	72.6	50.2	32.6	18.7	0.0
7.5°	302.8	134.3	73.2	50.5	32.8	18.8	0.0
5°	307.9	135.8	73.6	50.8	32.9	18.9	0.0
2.5°	311.0	136.7	73.9	50.9	33.0	19.0	0.0
0°	312.0	137.0	74.0	51.0	33.0	19.0	0.0
-2.5°	311.0	136.7	73.9	50.9	33.0	19.0	0.0
-5°	307.9	135.8	73.6	50.8	32.9	18.9	0.0
-7.5°	302.8	134.3	73.2	50.5	32.8	18.8	0.0
-10°	295.7	132.1	72.6	50.2	32.6	18.7	0.0
-12.5°	286.5	129.4	71.8	49.7	32.3	18.5	0.0
-15°	275.4	126.1	70.8	49.1	32.0	18.4	0.0
-17.5°	262.3	122.2	69.7	48.5	31.7	18.1	0.0
-20°	247.3	117.7	68.4	47.7	31.3	17.9	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	230.4	112.7	66.9	46.9	30.9	17.6	0.0
-25°	211.6	107.1	65.3	45.9	30.4	17.2	0.0
-27.5°	191.0	100.9	63.5	44.9	29.8	16.9	0.0
-30°	168.7	94.2	61.6	43.7	29.2	16.5	0.0
-32.5°	144.6	87.1	59.5	42.5	28.6	16.0	0.0
-35°	130.5	79.4	57.2	41.2	27.9	15.6	0.0
-37.5°	120.6	73.0	54.9	39.8	27.2	15.1	0.0
-40°	110.2	69.8	52.3	38.3	26.4	14.6	0.0
-42.5°	99.2	66.5	50.0	36.8	25.6	14.0	0.0
-45°	87.7	63.0	47.8	35.1	24.8	13.4	0.0
-47.5°	75.8	59.4	45.5	33.4	23.9	12.8	0.0
-50°	70.1	55.6	43.1	32.0	23.0	12.2	0.0
-52.5°	65.4	51.7	40.7	30.5	22.0	11.6	0.0
-55°	60.5	48.3	38.2	29.0	21.0	10.9	0.0
-57.5°	55.5	45.1	35.5	27.5	20.0	10.2	0.0
-60°	50.5	41.7	32.9	26.0	19.0	9.5	0.0
-62.5°	46.4	38.3	30.8	24.3	17.5	8.8	0.0
-65°	42.2	34.8	28.6	22.7	16.0	8.0	0.0
-67.5°	37.9	31.6	26.3	21.0	14.5	7.3	0.0
-70°	33.6	28.8	24.1	19.3	13.0	6.5	0.0
-72.5°	30.0	25.9	21.8	17.1	11.4	5.7	0.0
-75°	26.5	23.0	19.4	14.7	9.8	4.9	0.0
-77.5°	23.0	20.0	16.4	12.3	8.2	4.1	0.0
-80°	19.4	16.4	13.1	9.9	6.6	3.3	0.0
-82.5°	14.7	12.3	9.9	7.4	5.0	2.5	0.0
-85°	9.8	8.2	6.6	5.0	3.3	1.7	0.0
-87.5°	4.9	4.1	3.3	2.5	1.7	0.8	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)