

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: P699920 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200L-57-80-1L-S**

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-08
Report Number: P699920 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-52)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200L-57-80-1L-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 5700K, 80 CRI LEDS AND 1L BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

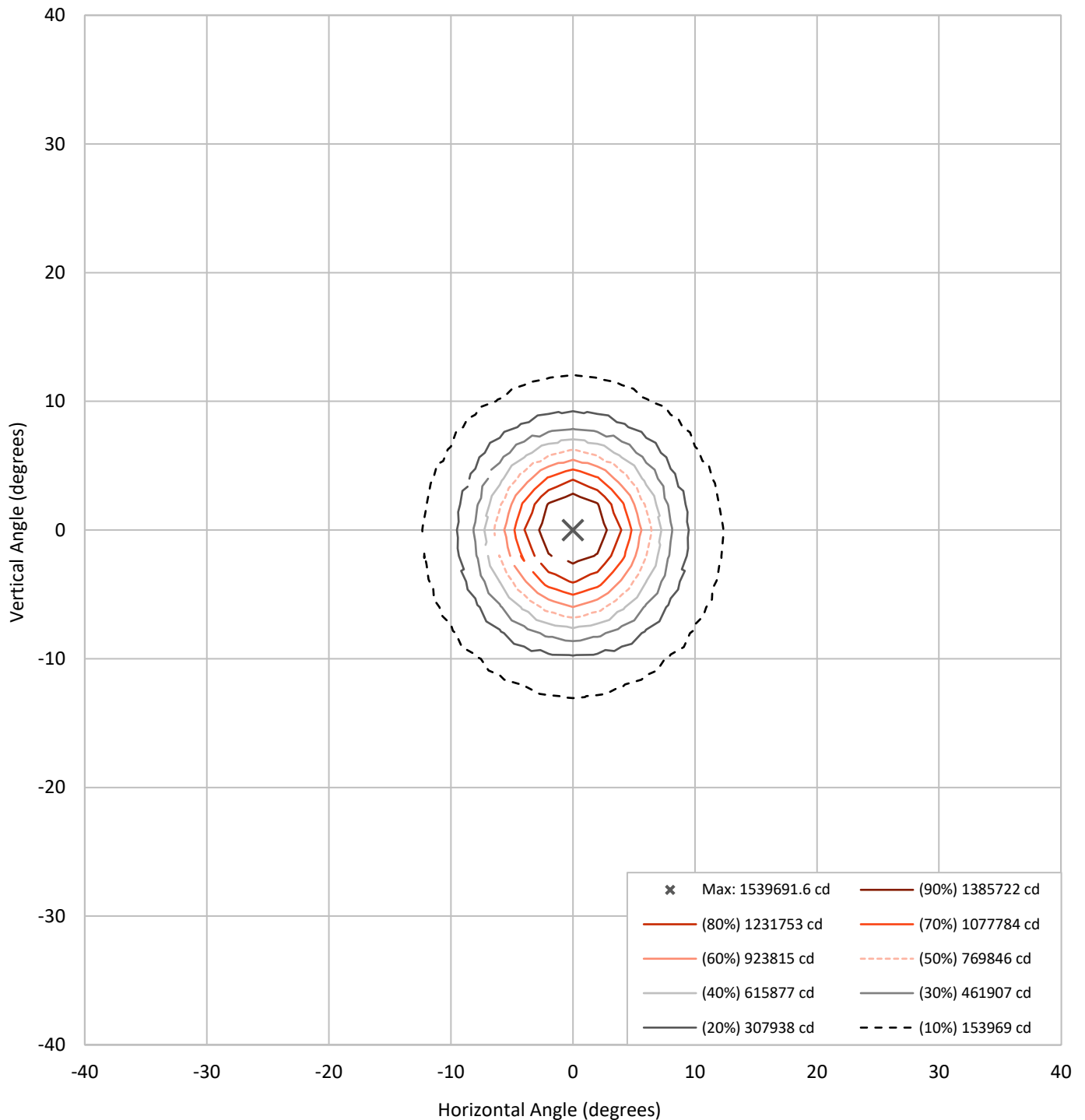
Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	159894.1 lumens	Max Intensity:	1539691.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	127.3 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		

Beam Angle (50%):	12.8°H x 13°V	Field Angle (10%):	24.4°H x 24.6°V
Beam Lumens:	39633.7 lumens	Field Lumens:	79617.5 lumens
Beam Efficiency:	24.8%	Field Efficiency:	49.8%

Input Watts (W): 1255.9
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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CATALOG NUMBER: EPH-LS-16-1200L-57-80-1L-S

Iso-Candela Plot





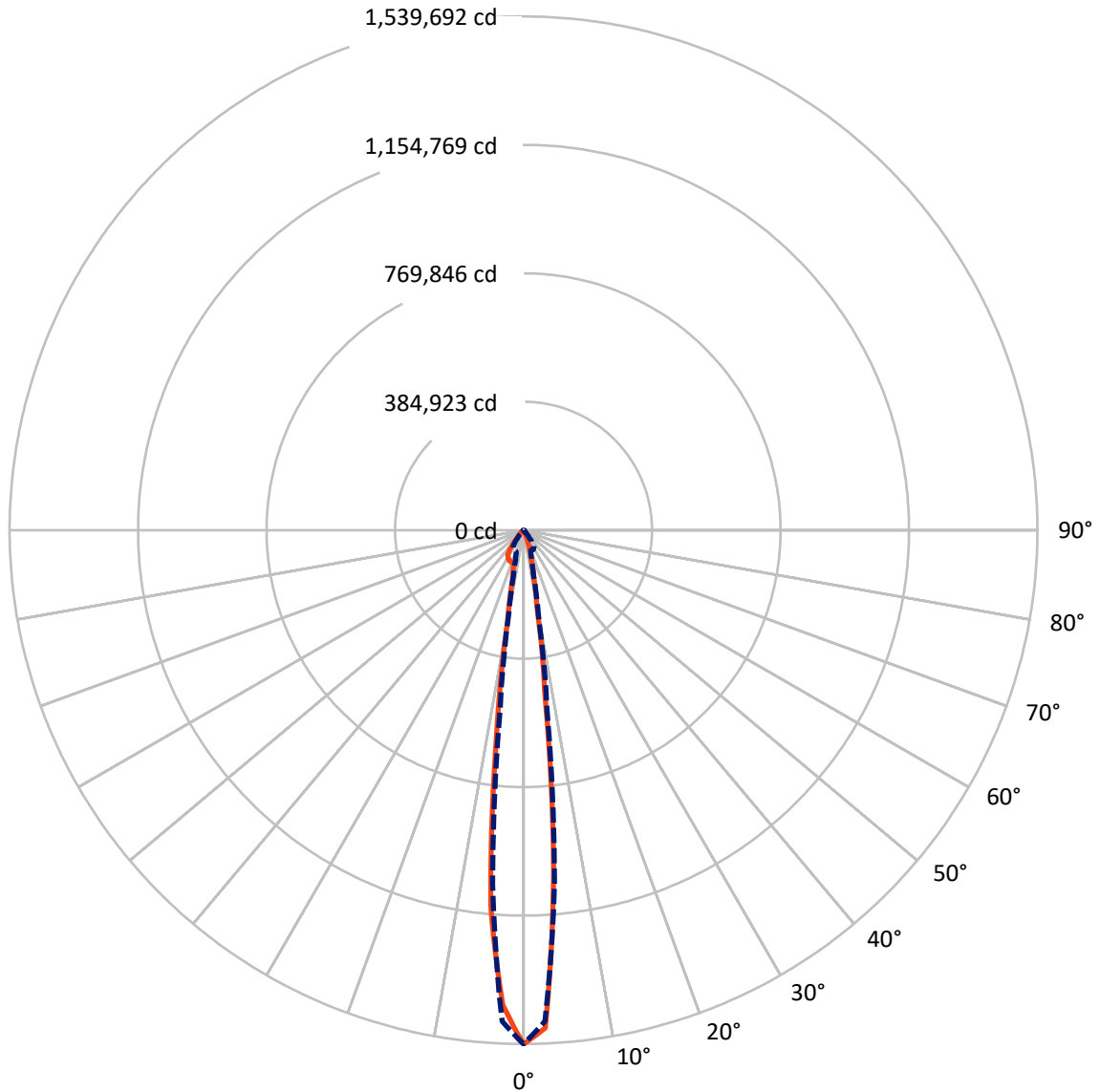
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Lumen Table

90	0.4	1.6	2.6	3.4	3.7	3.4	2.6	1.6	0.4										
80	0.4	1.6	2.6	3.4	3.7	3.4	2.6	1.6	0.4										
70	0.7	0.5	0.8	1.2	1.8	2.5	3.0	3.3	3.3	3.0	2.5	1.8	1.2	0.8	0.5	0.7			
60		0.6	1.1	2.3	4.0	6.1	9.9	15.5	15.5	9.9	6.1	4.0	2.3	1.1	0.6				
50	0.9	0.8	2.2	5.9	10.3	18.9	28.7	41.0	41.0	28.7	18.9	10.3	5.9	2.2	0.8	0.9			
40		1.0	4.9	12.7	26.0	36.7	56.0	65.6	65.6	56.0	36.7	26.0	12.7	4.9	1.0				
30	1.0	1.5	7.4	28.3	100.3	274.9	460.3	542.1	542.1	460.3	274.9	100.3	28.3	7.4	1.5	1.0			
20		2.1	11.0	64.9	434.4	1069.7	1563.7	2664.7	2664.7	1563.7	1069.7	434.4	64.9	11.0	2.1				
10	1.1	2.5	14.7	124.8	899.5	1628.7	2830.8	18126.3	18126.3	2830.8	1628.7	899.5	124.8	14.7	2.5	1.1			
0		2.5	15.4	154.5	1145.3	1929.4	3088.5	19225.6	19225.6	3088.5	1929.4	1145.3	154.5	15.4	2.5				
-10	1.0	2.4	12.3	121.5	989.1	2204.6	2621.3	3693.1	3693.1	2621.3	2204.6	989.1	121.5	12.3	2.4	1.0			
-20		1.8	8.3	63.7	501.2	1846.2	2690.6	2966.2	2966.2	2690.6	1846.2	501.2	63.7	8.3	1.8				
-30	0.9	1.2	5.9	23.7	163.0	667.1	1477.7	1997.8	1997.8	1477.7	667.1	163.0	23.7	5.9	1.2	0.9			
-40		0.9	3.1	8.4	33.5	136.1	314.0	450.9	450.9	314.0	136.1	33.5	8.4	3.1	0.9				
-50	0.7	0.7	1.5	3.5	6.8	15.9	36.5	54.1	54.1	36.5	15.9	6.8	3.5	1.5	0.7	0.7			
-60		0.5	0.9	1.5	2.5	3.7	4.7	5.3	5.3	4.7	3.7	2.5	1.5	0.9	0.5				
-70	0.4	0.4	1.6	2.5	3.5	3.8	3.5	2.5	1.6	0.4	0.4	1.6	2.5	3.5	3.8	3.5	2.5	1.6	0.4
-80		0.4	1.6	2.5	3.5	3.8	3.5	2.5	1.6	0.4	0.4	1.6	2.5	3.5	3.8	3.5	2.5	1.6	0.4
-90	0.4	1.6	2.5	3.5	3.8	3.5	2.5	1.6	0.4	0.4	1.6	2.5	3.5	3.8	3.5	2.5	1.6	0.4	

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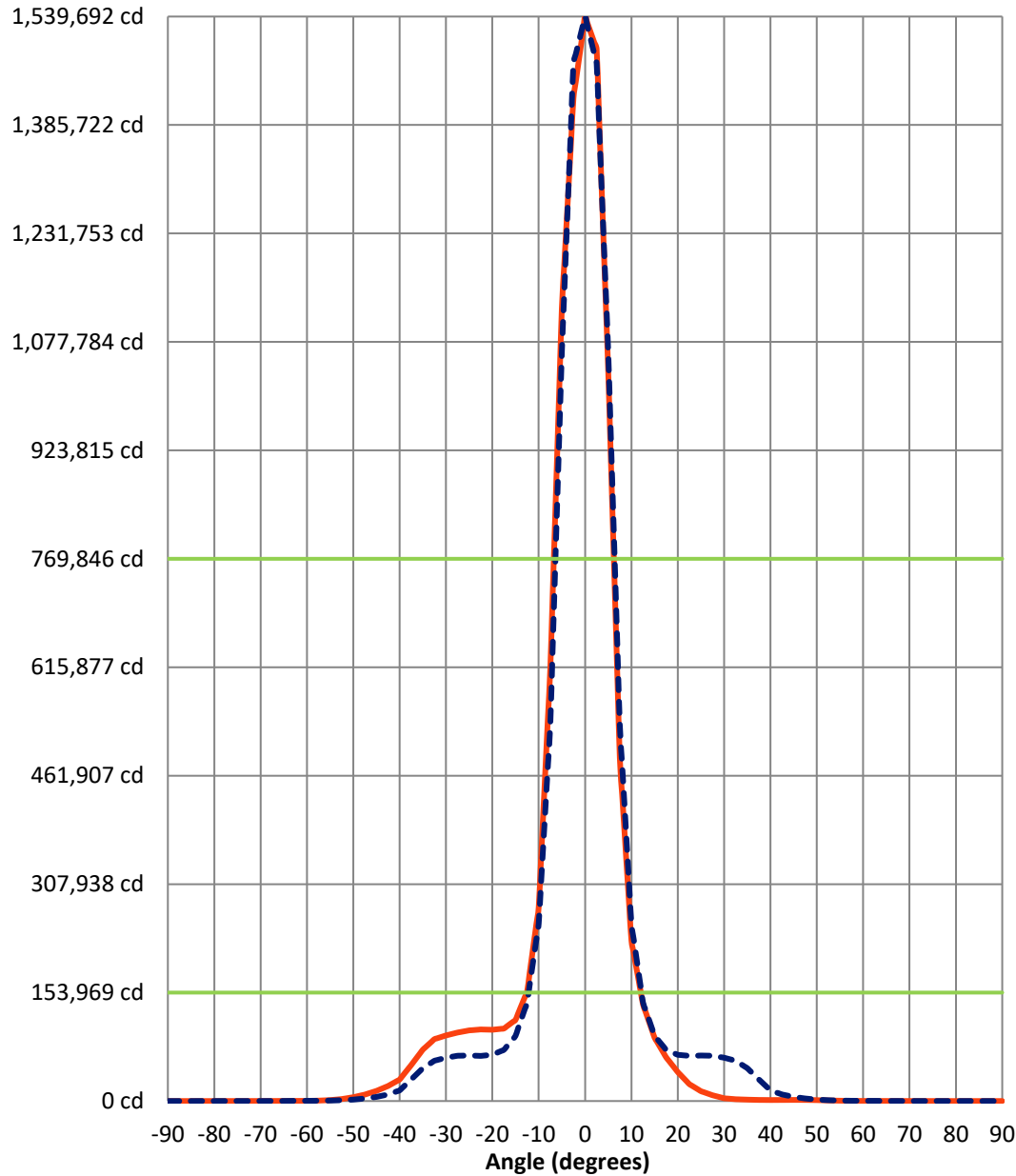
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 12.8°
 V Angle: 13°
 Lumens: 39633.7
 Efficiency: 24.8%

Field:
 H Angle: 24.4°
 V Angle: 24.6°
 Lumens: 79617.5
 Efficiency: 49.8%

Spill:
 Lumens: 80276.6
 Efficiency: 50.2%

— 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	1.2	2.5	3.7	4.9	6.1	7.3	8.5	9.7	10.9	11.6
85°	0.0	2.5	4.9	7.4	9.9	12.3	14.7	17.1	19.4	21.7	23.1
82.5°	0.0	3.7	7.4	11.1	14.8	18.4	22.0	25.6	28.4	28.4	27.7
80°	0.0	4.9	9.9	14.8	19.6	24.5	28.4	28.4	28.4	28.4	28.1
77.5°	0.0	6.1	12.3	18.4	24.5	28.4	28.4	28.4	28.4	28.4	29.3
75°	0.0	7.3	14.7	22.0	28.4	28.4	28.4	28.4	28.7	31.0	32.8
72.5°	0.0	8.5	17.1	25.6	28.4	28.4	28.4	29.1	31.8	34.4	36.5
70°	0.0	9.7	19.4	28.4	28.4	28.4	28.7	31.8	34.9	37.8	37.5
67.5°	0.0	10.9	21.7	28.4	28.4	28.4	31.0	34.4	37.8	38.0	37.7
65°	0.0	12.0	24.0	28.4	28.4	29.3	33.2	37.1	38.4	38.4	38.9
62.5°	0.0	13.1	26.2	28.4	28.4	31.2	35.4	38.4	39.0	39.4	42.6
60°	0.0	14.2	28.4	28.4	28.4	33.0	37.6	39.2	39.8	42.4	46.2
57.5°	0.0	15.3	28.4	28.4	29.7	34.7	38.6	40.1	41.8	45.2	47.4
55°	0.0	16.3	28.4	28.4	31.1	36.4	39.6	41.1	44.0	47.4	47.7
52.5°	0.0	17.3	28.4	28.4	32.4	38.0	40.6	42.7	46.0	48.0	48.2
50°	0.0	18.3	28.4	28.4	33.7	38.9	41.6	44.2	47.5	48.7	51.0
47.5°	0.0	19.2	28.4	28.6	34.9	39.8	42.7	45.6	48.4	49.6	53.9
45°	0.0	20.1	28.4	29.5	36.1	40.8	43.8	46.8	49.3	51.8	56.5
42.5°	0.0	20.9	28.4	30.4	37.3	41.8	44.7	47.8	50.4	53.9	59.8
40°	0.0	21.8	28.4	31.2	38.2	42.8	45.5	48.8	51.7	55.7	63.4
37.5°	0.0	22.5	28.4	31.9	39.0	43.8	46.3	49.9	53.1	57.7	67.0
35°	0.0	23.3	28.4	32.7	39.7	44.5	46.9	50.9	54.4	60.9	71.6
32.5°	0.0	24.0	28.4	33.4	40.5	45.0	47.6	52.1	55.4	64.0	77.7
30°	0.0	24.6	28.4	34.0	41.2	45.5	48.4	53.2	56.3	67.2	83.6
27.5°	0.0	25.2	28.4	34.6	41.9	45.9	49.3	54.0	57.8	70.2	89.3
25°	0.0	25.7	28.4	35.1	42.6	46.2	50.2	54.6	60.2	74.3	95.0
22.5°	0.0	26.2	28.4	35.6	43.3	46.5	51.1	55.2	62.5	78.8	102.0
20°	0.0	26.7	28.4	36.1	43.9	46.7	51.9	55.7	64.7	83.1	108.7
17.5°	0.0	27.1	28.4	36.5	44.5	46.9	52.7	56.0	66.8	87.0	114.9
15°	0.0	27.4	28.4	36.8	45.0	47.1	53.5	56.3	68.7	90.6	120.5
12.5°	0.0	27.7	28.4	37.1	45.6	47.2	54.2	56.5	70.4	93.9	125.7
10°	0.0	28.0	28.4	37.4	46.0	47.2	54.9	56.7	72.0	96.8	130.2
7.5°	0.0	28.2	28.4	37.6	46.4	47.3	55.5	56.7	73.3	99.3	134.2
5°	0.0	28.3	28.4	37.7	46.8	47.3	56.0	56.8	74.4	101.4	137.5
2.5°	0.0	28.4	28.4	37.8	47.1	47.3	56.5	56.8	75.2	103.0	140.0
0°	0.0	28.4	28.4	37.8	47.3	47.3	56.8	56.8	75.7	104.1	141.9
-2.5°	0.0	28.4	28.4	37.8	47.1	47.3	56.7	57.1	75.9	104.3	142.5
-5°	0.0	28.3	28.4	37.7	46.8	47.3	56.6	57.4	75.9	103.9	142.3
-7.5°	0.0	28.2	28.4	37.6	46.4	47.3	56.3	57.7	75.5	103.1	141.2
-10°	0.0	28.0	28.4	37.4	46.0	47.2	55.9	58.0	74.8	101.7	139.3
-12.5°	0.0	27.7	28.4	37.1	45.6	47.2	55.4	58.2	73.9	99.9	136.6
-15°	0.0	27.4	28.4	36.8	45.0	47.1	54.8	58.3	72.6	97.5	132.9
-17.5°	0.0	27.1	28.4	36.5	44.5	46.9	54.1	58.3	71.0	94.6	128.3
-20°	0.0	26.7	28.4	36.1	43.9	46.7	53.3	58.3	69.2	91.3	122.9



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 CATALOG NUMBER: EPH-LS-16-1200L-57-80-1L-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	26.2	28.4	35.6	43.3	46.5	52.4	58.1	67.1	87.5	116.4
-25°	0.0	25.7	28.4	35.1	42.6	46.2	51.4	57.8	64.7	83.2	109.1
-27.5°	0.0	25.2	28.4	34.6	41.9	45.9	50.2	57.5	62.0	79.0	103.7
-30°	0.0	24.6	28.4	34.0	41.2	45.5	49.0	56.9	60.6	75.7	97.9
-32.5°	0.0	24.0	28.4	33.4	40.5	45.0	47.7	55.6	60.1	72.1	91.6
-35°	0.0	23.3	28.4	32.7	39.7	44.5	46.9	54.0	59.3	68.2	84.8
-37.5°	0.0	22.5	28.4	31.9	39.0	43.8	46.3	52.2	58.4	64.0	79.2
-40°	0.0	21.8	28.4	31.2	38.2	42.8	45.5	50.4	57.2	61.9	74.3
-42.5°	0.0	20.9	28.4	30.4	37.3	41.8	44.7	48.5	55.3	60.4	69.1
-45°	0.0	20.1	28.4	29.5	36.1	40.8	43.8	46.8	53.0	58.7	64.1
-47.5°	0.0	19.2	28.4	28.6	34.9	39.8	42.7	45.6	50.6	56.7	61.8
-50°	0.0	18.3	28.4	28.4	33.7	38.9	41.6	44.2	48.1	53.9	59.3
-52.5°	0.0	17.3	28.4	28.4	32.4	38.0	40.6	42.7	46.0	51.0	56.5
-55°	0.0	16.3	28.4	28.4	31.1	36.4	39.6	41.1	44.0	48.0	53.1
-57.5°	0.0	15.3	28.4	28.4	29.7	34.7	38.6	40.1	41.8	45.2	49.7
-60°	0.0	14.2	28.4	28.4	28.4	33.0	37.6	39.2	39.8	42.4	46.2
-62.5°	0.0	13.1	26.2	28.4	28.4	31.2	35.4	38.4	39.0	39.4	42.6
-65°	0.0	12.0	24.0	28.4	28.4	29.3	33.2	37.1	38.4	38.4	38.9
-67.5°	0.0	10.9	21.7	28.4	28.4	28.4	31.0	34.4	37.8	38.0	37.7
-70°	0.0	9.7	19.4	28.4	28.4	28.4	28.7	31.8	34.9	37.8	37.5
-72.5°	0.0	8.5	17.1	25.6	28.4	28.4	28.4	29.1	31.8	34.4	36.4
-75°	0.0	7.3	14.7	22.0	28.4	28.4	28.4	28.4	28.7	31.0	32.5
-77.5°	0.0	6.1	12.3	18.4	24.5	28.4	28.4	28.4	28.4	28.4	28.5
-80°	0.0	4.9	9.9	14.8	19.6	24.5	28.4	28.4	28.4	28.4	27.5
-82.5°	0.0	3.7	7.4	11.1	14.8	18.4	22.0	25.6	28.4	28.4	27.4
-85°	0.0	2.5	4.9	7.4	9.9	12.3	14.7	17.1	19.4	21.7	23.1
-87.5°	0.0	1.2	2.5	3.7	4.9	6.1	7.3	8.5	9.7	10.9	11.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	-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°	12.1	12.6	13.0	13.3	13.4	13.5	13.5	13.4	13.9	14.5	15.0
85°	24.3	25.2	24.5	23.9	23.5	23.1	22.9	22.9	22.9	22.8	22.6
82.5°	27.1	26.9	26.8	26.9	27.3	27.9	28.4	28.4	27.4	26.4	25.3
80°	28.1	28.4	29.2	29.6	29.8	29.7	29.3	28.6	27.5	27.0	27.0
77.5°	30.6	31.6	32.1	32.2	32.0	32.2	32.7	33.4	34.0	34.3	34.5
75°	34.1	34.9	34.7	35.0	35.6	36.6	37.8	37.9	37.4	37.1	37.1
72.5°	36.5	36.4	36.8	37.7	38.6	39.0	38.9	38.3	39.0	40.9	42.7
70°	37.3	37.6	39.2	40.4	40.9	41.2	42.2	43.8	45.8	48.0	50.1
67.5°	38.4	40.7	42.4	43.2	44.0	45.3	47.2	50.0	52.6	55.1	57.6
65°	42.0	44.3	44.9	45.7	47.1	50.2	53.3	56.4	59.3	62.5	66.3
62.5°	45.7	46.0	46.6	48.7	52.3	55.9	59.3	62.7	65.8	72.1	78.2
60°	46.8	46.9	49.5	53.6	57.6	61.5	65.2	71.5	78.5	85.2	88.9
57.5°	47.2	49.5	54.1	58.5	62.8	67.7	75.9	83.8	88.9	92.0	100.7
55°	48.7	53.6	58.5	63.2	69.5	78.6	87.1	93.2	97.8	121.2	140.4
52.5°	52.3	57.6	62.8	69.5	79.4	89.2	97.3	119.6	153.3	169.6	181.2
50°	55.9	61.5	67.7	78.6	89.8	100.2	138.2	185.9	205.8	215.4	220.9
47.5°	59.5	65.2	75.9	88.0	101.2	147.2	212.4	236.4	249.4	254.4	260.5
45°	63.3	71.7	83.8	99.5	140.5	226.3	261.1	277.7	282.2	298.7	342.5
42.5°	67.1	79.4	94.4	112.4	221.4	279.7	299.9	305.4	329.4	387.8	446.2
40°	73.8	87.2	105.9	192.0	292.1	315.8	325.3	345.5	421.0	504.3	575.9
37.5°	80.8	98.1	133.2	274.3	325.3	342.8	347.7	437.0	541.0	645.5	747.2
35°	87.7	108.9	202.7	323.5	357.9	362.3	431.7	546.3	687.9	826.8	949.3
32.5°	96.1	119.4	266.8	342.2	375.6	401.4	522.6	692.9	865.9	1030.9	1197.5
30°	105.4	170.4	313.0	358.8	383.3	486.1	652.0	853.0	1061.8	1287.9	1479.3
27.5°	114.3	220.1	326.9	368.7	406.1	564.6	797.1	1041.0	1303.0	1571.7	1805.6
25°	122.8	264.9	339.1	378.1	474.1	676.5	949.4	1235.0	1570.1	1905.1	2294.7
22.5°	145.3	304.0	349.4	389.1	540.2	802.3	1134.6	1505.5	1868.4	2278.1	2891.3
20°	178.5	312.5	358.1	409.3	603.9	928.4	1335.6	1839.4	2350.5	2890.2	4104.2
17.5°	207.4	319.6	366.9	460.9	699.7	1074.7	1562.5	2219.7	2939.1	3868.4	5896.5
15°	231.9	325.2	375.9	508.6	798.4	1245.1	1873.2	2710.5	3722.8	5190.6	8133.0
12.5°	252.2	329.4	384.9	552.0	891.3	1414.9	2199.1	3254.4	4666.5	7030.7	12625.8
10°	268.2	332.2	393.5	590.3	976.4	1579.4	2529.5	3822.9	5661.7	8873.0	17019.5
7.5°	280.2	333.6	401.3	623.1	1051.9	1733.7	2852.3	4394.4	6671.3	10664.8	21178.3
5°	288.3	333.9	408.0	649.5	1115.9	1872.4	3154.5	4945.3	7653.5	12348.0	24950.5
2.5°	292.5	333.0	413.1	669.1	1166.4	1990.1	3422.4	5450.4	8563.8	13859.8	28172.9
0°	293.2	331.1	416.2	681.1	1201.4	2081.1	3642.0	5883.9	9355.6	15135.5	30677.7
-2.5°	299.1	334.9	415.7	675.6	1194.3	2082.3	3675.3	5989.6	9666.3	15822.9	31717.9
-5°	301.0	338.1	413.3	662.3	1169.4	2049.7	3640.6	5986.0	9777.7	16141.4	31771.4
-7.5°	298.7	340.9	409.1	641.3	1126.7	1981.6	3532.9	5862.6	9658.2	16028.4	30749.6
-10°	291.5	343.7	403.6	613.1	1066.0	1876.9	3347.7	5610.3	9280.0	15429.2	28582.2
-12.5°	279.3	346.8	397.0	577.8	987.4	1734.7	3081.6	5221.7	8619.6	14298.6	25219.6
-15°	261.5	350.3	389.8	535.8	890.9	1554.3	2731.8	4691.1	7658.8	12602.8	20633.8
-17.5°	237.9	354.7	382.1	487.5	776.8	1335.5	2296.6	4049.0	6656.5	11084.6	18325.2
-20°	208.3	360.0	374.3	433.3	658.2	1140.1	1988.2	3514.6	5818.0	9493.0	15615.2



REPORT NUMBER: P699920 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-1L-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	172.3	366.6	371.6	413.1	591.5	981.1	1677.6	2883.5	4826.2	7732.2	12830.3
-25°	147.8	325.1	377.7	402.6	519.3	804.3	1325.4	2230.4	4030.2	6634.7	10633.5
-27.5°	139.0	274.8	385.7	393.1	441.9	640.6	1076.8	1876.7	3242.1	5345.0	8289.8
-30°	129.0	216.7	395.9	389.5	416.3	552.2	870.8	1447.1	2434.6	4221.5	6677.7
-32.5°	118.1	155.3	349.8	401.5	407.2	459.0	661.1	1132.8	1902.3	3047.5	5036.6
-35°	107.9	142.3	271.2	416.5	392.9	414.5	547.6	825.1	1366.5	2272.1	3597.1
-37.5°	100.0	128.2	183.6	376.3	395.5	391.2	426.4	621.6	986.5	1547.3	2518.4
-40°	91.6	113.0	147.5	268.4	395.4	374.5	394.2	466.3	673.3	1082.6	1649.1
-42.5°	83.1	103.1	129.7	163.6	313.5	370.9	358.2	395.3	487.9	694.1	1088.9
-45°	77.0	93.0	112.3	142.1	206.5	326.6	349.5	343.6	389.6	475.4	675.9
-47.5°	70.7	83.4	100.8	121.2	150.2	221.1	314.6	328.1	327.3	372.1	430.1
-50°	65.0	75.9	88.9	106.1	127.0	153.9	214.7	285.4	303.5	305.9	337.9
-52.5°	61.8	67.9	79.4	92.8	108.7	128.3	153.0	194.9	247.3	272.5	280.7
-55°	57.9	62.7	70.0	81.2	94.1	108.7	125.2	147.6	169.7	208.6	239.4
-57.5°	53.9	57.9	62.8	70.2	81.0	92.8	106.1	119.0	137.8	157.2	178.0
-60°	49.8	53.1	56.9	61.8	68.3	78.5	89.2	100.9	112.5	123.4	139.5
-62.5°	45.7	48.6	51.4	54.8	59.5	64.8	73.2	83.0	93.1	102.7	111.5
-65°	42.0	44.3	46.5	48.9	51.3	55.3	60.1	65.4	73.6	82.0	89.9
-67.5°	38.4	40.7	42.4	43.6	45.6	47.5	49.2	53.3	57.8	62.8	68.2
-70°	37.3	37.6	39.2	40.4	40.9	41.4	42.9	44.2	45.8	48.7	52.9
-72.5°	36.5	36.4	36.8	37.7	38.6	39.0	38.9	38.3	39.0	40.9	42.7
-75°	33.7	34.8	34.7	35.0	35.6	36.6	37.8	37.9	37.4	37.1	37.1
-77.5°	29.3	30.1	30.8	31.5	32.0	32.2	32.7	33.4	34.0	34.3	34.5
-80°	26.4	25.4	25.7	26.0	26.3	26.5	26.7	26.9	27.0	27.0	27.0
-82.5°	26.4	25.3	24.3	23.2	22.2	21.1	20.3	20.1	20.7	21.1	21.3
-85°	24.3	25.2	24.2	23.2	22.1	21.1	20.0	18.9	18.4	17.9	17.6
-87.5°	12.1	12.6	13.0	13.3	13.4	13.5	13.5	13.4	13.2	12.9	12.5
-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: P699920 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-1L-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°	15.5	15.9	16.4	16.8	17.1	17.5	15.8	14.0	12.2	10.3	8.3
85°	22.3	21.8	21.2	20.6	19.8	18.9	17.8	16.6	15.6	14.5	13.5
82.5°	24.3	23.2	22.2	21.1	20.0	19.0	18.7	18.6	18.6	18.6	18.7
80°	26.9	26.8	26.6	26.3	26.0	25.6	26.1	26.6	27.1	27.5	27.8
77.5°	34.2	33.9	33.7	33.7	33.9	34.3	34.9	35.6	36.2	36.7	37.1
75°	37.4	38.2	39.5	40.7	41.9	42.9	43.8	44.6	45.3	45.9	46.4
72.5°	44.5	46.1	47.7	49.1	50.4	51.6	52.7	53.6	54.5	55.2	55.8
70°	52.1	54.0	55.8	57.8	60.6	63.6	66.2	68.4	70.3	72.0	73.3
67.5°	60.7	64.1	67.8	71.8	75.2	77.9	79.7	81.0	82.1	83.0	83.7
65°	70.9	75.6	79.5	82.7	85.2	88.6	91.9	94.7	97.2	99.3	101.0
62.5°	83.3	87.4	91.3	95.6	100.1	106.2	112.2	116.9	120.9	124.4	127.3
60°	93.2	97.9	110.6	121.3	129.4	135.1	138.7	144.0	149.3	154.3	158.8
57.5°	119.1	134.3	146.4	155.5	161.8	165.3	168.7	178.4	190.9	203.6	216.1
55°	158.3	172.7	183.6	192.7	200.8	207.7	216.7	245.9	284.6	325.0	365.8
52.5°	198.8	211.9	223.6	239.0	270.7	300.6	328.6	375.7	447.6	521.2	594.6
50°	236.2	258.6	297.4	335.1	384.4	438.3	491.8	551.6	660.6	774.5	889.8
47.5°	298.7	342.8	399.2	461.3	529.1	608.7	687.6	762.3	873.4	998.3	1122.4
45°	380.2	445.9	518.8	608.1	699.2	782.6	857.5	924.5	1004.6	1114.4	1219.9
42.5°	490.5	560.5	657.6	758.0	852.3	923.6	968.3	1006.0	1057.1	1156.3	1242.8
40°	640.6	682.8	797.5	894.7	954.6	1006.0	1045.3	1081.5	1121.2	1216.7	1291.4
37.5°	823.5	870.0	909.2	978.6	1029.6	1074.6	1154.7	1229.2	1277.6	1367.3	1448.8
35°	1050.9	1072.4	1002.5	1043.0	1127.6	1256.8	1407.8	1583.8	1622.5	1646.9	1765.9
32.5°	1301.1	1326.3	1245.6	1187.2	1351.1	1752.2	2022.7	2380.5	2380.3	2093.5	2299.6
30°	1610.0	1705.4	1864.7	1774.7	2098.0	2813.7	3487.0	4029.6	4047.8	3423.6	3641.6
27.5°	2081.7	2561.1	3117.2	4010.4	3760.7	4726.4	6336.2	7178.0	7725.4	6967.8	7418.5
25°	2891.3	3913.2	6469.1	7907.1	8176.2	8656.9	11146.4	12827.4	14551.6	15035.5	14593.4
22.5°	4374.2	7670.0	11076.7	13162.9	14680.7	16058.0	18199.2	21811.6	23935.7	24855.2	24750.6
20°	6850.7	12514.0	16802.4	19905.4	22486.9	25062.9	28468.5	31771.5	34166.3	35233.9	36238.6
17.5°	11554.8	18192.9	23333.5	27273.6	30930.1	35045.7	38493.4	41515.1	43391.2	46190.8	49277.2
15°	16848.0	24414.2	30267.1	35152.6	39792.0	43911.7	46980.3	48812.9	52741.9	57418.2	63017.3
12.5°	22330.2	30777.4	37209.6	42950.0	48193.2	51222.0	52743.7	55326.9	60490.2	67972.8	80315.2
10°	27849.5	36811.5	43371.1	48987.5	54032.0	56826.8	57372.9	60199.0	67476.5	81393.6	101367.3
7.5°	33242.7	42579.4	48802.3	53973.3	57581.4	59151.3	60695.1	65150.5	75610.2	94727.4	135407.5
5°	38312.8	47973.6	53568.3	58059.1	60394.2	61011.6	62762.5	68771.8	83380.1	112941.4	180022.6
2.5°	42843.4	52878.1	57761.4	61427.8	62662.3	62615.2	64393.9	71282.4	89342.6	131068.7	230016.7
0°	46607.7	57174.2	61497.2	64306.7	64628.4	64108.1	65697.3	72716.4	92572.2	139988.7	251910.7
-2.5°	48513.8	59892.4	64485.1	67202.1	67590.1	67104.8	68380.0	74902.0	93542.3	136983.9	238259.2
-5°	49266.8	61772.5	67169.4	69938.9	70570.2	70202.5	71008.0	76255.8	91549.8	123941.3	192632.6
-7.5°	48726.9	62717.2	69577.2	72592.2	73612.7	73439.9	73703.0	76938.7	87194.3	107422.5	149586.2
-10°	46782.5	62653.3	71737.9	75229.7	76753.7	76866.4	76934.3	78163.8	83647.4	96877.1	117014.6
-12.5°	43354.5	61533.4	73681.3	77891.0	79752.9	80591.4	81019.4	81909.0	84293.9	88825.0	100948.9
-15°	38500.7	57939.3	71972.6	78765.4	81896.5	83858.2	85158.5	85892.0	87199.4	89343.9	93160.6
-17.5°	32592.1	51067.1	67869.0	79076.9	83438.1	86238.7	88364.5	90137.5	90760.3	91879.0	93632.0
-20°	25686.0	43041.8	61259.9	74785.5	83193.0	87650.0	90669.0	92417.7	93699.6	94763.9	96569.9



REPORT NUMBER: P699920 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-1L-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	20960.8	34586.8	51444.9	68543.9	79887.0	86943.7	90994.2	92796.0	94558.1	96376.4	98336.4
-25°	16664.6	25729.8	41046.4	57052.9	72323.0	82699.7	88275.2	91493.0	93628.5	95881.8	97914.0
-27.5°	13132.0	20265.6	30110.9	44863.0	59651.0	72770.5	81022.0	87808.0	90692.1	93495.3	95146.6
-30°	9891.8	15039.2	22668.0	32387.3	44982.3	56772.1	68317.5	77059.0	83667.8	88805.6	90625.1
-32.5°	7692.8	11102.7	16159.2	23228.9	30507.2	40704.5	50648.9	60480.2	69493.3	76207.8	80402.3
-35°	5604.4	8282.0	11458.1	15985.3	21094.5	27231.4	33671.5	42079.4	49629.7	56664.8	62596.1
-37.5°	3862.8	5840.8	8299.5	10948.0	14643.1	18386.3	22924.0	27270.9	30910.1	36946.1	41997.3
-40°	2602.6	3771.5	5655.6	7663.6	10067.6	12453.2	15697.0	18644.1	21537.9	24345.0	26622.0
-42.5°	1646.1	2508.3	3519.0	5053.0	6734.3	8584.7	10627.1	12560.3	14676.0	16609.5	18222.1
-45°	984.8	1544.5	2203.2	3144.3	4112.4	5520.3	6944.0	8293.0	9753.3	11011.1	12093.7
-47.5°	623.0	852.1	1306.2	1840.0	2468.9	3325.1	4182.2	5086.6	6086.1	6938.2	7665.7
-50°	407.4	527.3	741.2	969.1	1379.4	1854.2	2325.2	2903.9	3485.8	4007.0	4461.0
-52.5°	298.0	360.6	437.9	547.4	747.3	953.9	1164.2	1506.0	1816.3	2089.6	2323.5
-55°	261.6	276.5	290.4	343.9	417.8	497.2	597.0	754.3	890.0	1009.9	1112.7
-57.5°	206.2	231.4	250.9	262.4	273.0	282.4	321.8	382.1	437.3	486.7	529.7
-60°	154.8	169.2	190.2	209.3	225.6	239.3	246.7	254.4	261.6	267.9	273.4
-62.5°	119.9	130.9	143.3	154.8	165.4	177.2	189.2	198.9	207.3	214.3	219.8
-65°	97.5	104.6	111.3	117.5	123.4	132.1	139.9	146.3	151.5	155.6	158.6
-67.5°	74.9	81.3	87.3	92.8	97.9	102.6	106.8	110.6	113.8	116.6	118.9
-70°	56.9	60.6	64.2	68.0	72.5	76.7	80.4	83.7	86.5	89.0	91.0
-72.5°	44.5	46.1	48.0	50.9	53.5	55.8	58.0	59.9	61.6	63.0	64.1
-75°	37.4	38.2	39.5	40.7	41.9	42.9	43.8	44.6	45.3	45.9	46.4
-77.5°	34.2	33.9	33.7	33.7	33.9	34.3	34.9	35.6	36.2	36.7	37.1
-80°	26.9	26.8	26.6	26.3	26.0	25.6	25.9	26.3	26.7	27.1	27.5
-82.5°	21.3	21.2	20.8	20.3	19.7	19.0	17.9	16.9	15.8	14.8	13.7
-85°	17.4	17.3	17.2	17.3	17.3	17.5	16.7	16.0	15.1	14.3	13.4
-87.5°	12.1	11.5	10.9	10.3	9.6	8.8	7.9	7.1	6.1	5.2	4.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699920 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-1L-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°	6.3	4.2	2.1	0.0	2.1	4.2	6.3	8.3	10.3	12.2	14.0
85°	12.5	11.5	10.5	9.5	10.5	11.5	12.5	13.5	14.5	15.6	16.6
82.5°	18.7	18.8	18.9	18.9	18.9	18.8	18.7	18.7	18.6	18.6	18.6
80°	28.1	28.3	28.4	28.4	28.4	28.3	28.1	27.8	27.5	27.1	26.6
77.5°	37.4	37.6	37.8	37.8	37.8	37.6	37.4	37.1	36.7	36.2	35.6
75°	46.8	47.1	47.2	47.3	47.2	47.1	46.8	46.4	45.9	45.3	44.6
72.5°	56.2	56.5	56.7	56.8	56.7	56.5	56.2	55.8	55.2	54.5	53.6
70°	74.4	75.1	75.5	75.7	75.5	75.1	74.4	73.3	72.0	70.3	68.4
67.5°	84.3	84.8	85.0	85.1	85.0	84.8	84.3	83.7	83.0	82.1	81.0
65°	102.4	103.3	103.9	104.1	103.9	103.3	102.4	101.0	99.3	97.2	94.7
62.5°	129.5	131.1	132.1	132.4	132.1	131.1	129.5	127.3	124.4	120.9	116.9
60°	162.8	166.1	168.6	170.3	168.6	166.1	162.8	158.8	154.3	149.3	144.0
57.5°	228.0	238.8	248.1	255.4	248.1	238.8	228.0	216.1	203.6	190.9	178.4
55°	405.4	442.3	474.8	501.4	474.8	442.3	405.4	365.8	325.0	284.6	245.9
52.5°	665.6	732.0	791.5	841.9	791.5	732.0	665.6	594.6	521.2	447.6	375.7
50°	1003.3	1111.3	1210.1	1296.0	1210.1	1111.3	1003.3	889.8	774.5	660.6	551.6
47.5°	1243.6	1360.1	1469.6	1570.3	1469.6	1360.1	1243.6	1122.4	998.3	873.4	762.3
45°	1321.5	1419.7	1515.0	1608.1	1515.0	1419.7	1321.5	1219.9	1114.4	1004.6	924.5
42.5°	1319.4	1389.3	1456.0	1523.0	1456.0	1389.3	1319.4	1242.8	1156.3	1057.1	1006.0
40°	1347.7	1390.4	1424.8	1456.8	1424.8	1390.4	1347.7	1291.4	1216.7	1121.2	1081.5
37.5°	1507.2	1545.9	1568.6	1579.8	1568.6	1545.9	1507.2	1448.8	1367.3	1277.6	1229.2
35°	1859.7	1927.8	1970.1	1986.5	1970.1	1927.8	1859.7	1765.9	1646.9	1622.5	1583.8
32.5°	2447.2	2539.1	2579.2	2573.0	2579.2	2539.1	2447.2	2299.6	2093.5	2380.3	2380.5
30°	4053.8	4212.0	4158.5	3944.7	4158.5	4212.0	4053.8	3641.6	3423.6	4047.8	4029.6
27.5°	8655.2	9127.3	8942.6	8239.4	8942.6	9127.3	8655.2	7418.5	6967.8	7725.4	7178.0
25°	15929.7	16205.2	15489.7	13990.8	15489.7	16205.2	15929.7	14593.4	15035.5	14551.6	12827.4
22.5°	25610.4	26283.8	25728.8	24008.6	25728.8	26283.8	25610.4	24750.6	24855.2	23935.7	21811.6
20°	38141.6	40599.6	41735.4	41168.4	41735.4	40599.6	38141.6	36238.6	35233.9	34166.3	31771.5
17.5°	53070.1	57582.7	60895.8	62017.5	60895.8	57582.7	53070.1	49277.2	46190.8	43391.2	41515.1
15°	70897.3	79254.7	86364.4	89999.2	86364.4	79254.7	70897.3	63017.3	57418.2	52741.9	48812.9
12.5°	93876.0	110737.1	128084.7	137174.5	128084.7	110737.1	93876.0	80315.2	67972.8	60490.2	55326.9
10°	134087.4	174746.5	215629.2	228214.2	215629.2	174746.5	134087.4	101367.3	81393.6	67476.5	60199.0
7.5°	205922.7	314371.8	439692.6	486794.0	439692.6	314371.8	205922.7	135407.5	94727.4	75610.2	65150.5
5°	323218.9	570954.7	885316.9	#####	885316.9	570954.7	323218.9	180022.6	112941.4	83380.1	68771.8
2.5°	459379.1	899700.6	#####	#####	#####	899700.6	459379.1	230016.7	131068.7	89342.6	71282.4
0°	534281.4	#####	#####	#####	#####	#####	534281.4	251910.7	139988.7	92572.2	72716.4
-2.5°	483039.1	937319.4	#####	#####	#####	937319.4	483039.1	238259.2	136983.9	93542.3	74902.0
-5°	354624.8	641331.2	982924.6	#####	982924.6	641331.2	354624.8	192632.6	123941.3	91549.8	76255.8
-7.5°	227205.8	372720.8	539111.8	613893.9	539111.8	372720.8	227205.8	149586.2	107422.5	87194.3	76938.7
-10°	152183.3	204748.5	260542.5	275257.1	260542.5	204748.5	152183.3	117014.6	96877.1	83647.4	78163.8
-12.5°	114259.1	132623.5	148650.8	155530.9	148650.8	132623.5	114259.1	100948.9	88825.0	84293.9	81909.0
-15°	100472.8	107536.0	112313.1	115209.2	112313.1	107536.0	100472.8	93160.6	89343.9	87199.4	85892.0
-17.5°	97095.3	99175.2	101083.8	102940.0	101083.8	99175.2	97095.3	93632.0	91879.0	90760.3	90137.5
-20°	98269.3	98942.3	99971.9	101218.3	99971.9	98942.3	98269.3	96569.9	94763.9	93699.6	92417.7



REPORT NUMBER: P699920 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-1L-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	99320.6	99947.9	100768.9	101625.1	100768.9	99947.9	99320.6	98336.4	96376.4	94558.1	92796.0
-25°	98626.0	99299.7	99887.3	100291.3	99887.3	99299.7	98626.0	97914.0	95881.8	93628.5	91493.0
-27.5°	96040.5	96719.7	97139.1	97254.7	97139.1	96719.7	96040.5	95146.6	93495.3	90692.1	87808.0
-30°	91866.6	92703.7	93130.6	93149.2	93130.6	92703.7	91866.6	90625.1	88805.6	83667.8	77059.0
-32.5°	83712.8	86086.9	87482.5	87870.8	87482.5	86086.9	83712.8	80402.3	76207.8	69493.3	60480.2
-35°	67219.4	70496.5	72405.8	72943.4	72405.8	70496.5	67219.4	62596.1	56664.8	49629.7	42079.4
-37.5°	45980.4	48852.8	50582.2	51148.4	50582.2	48852.8	45980.4	41997.3	36946.1	30910.1	27270.9
-40°	28374.4	29605.4	30324.0	30545.2	30324.0	29605.4	28374.4	26622.0	24345.0	21537.9	18644.1
-42.5°	19506.7	20458.6	21076.0	21359.9	21076.0	20458.6	19506.7	18222.1	16609.5	14676.0	12560.3
-45°	12988.6	13684.2	14169.7	14435.4	14169.7	13684.2	12988.6	12093.7	11011.1	9753.3	8293.0
-47.5°	8262.5	8722.7	9041.2	9213.7	9041.2	8722.7	8262.5	7665.7	6938.2	6086.1	5086.6
-50°	4841.2	5141.3	5355.2	5477.1	5355.2	5141.3	4841.2	4461.0	4007.0	3485.8	2903.9
-52.5°	2515.5	2663.5	2765.3	2819.0	2765.3	2663.5	2515.5	2323.5	2089.6	1816.3	1506.0
-55°	1197.5	1263.3	1309.0	1333.8	1309.0	1263.3	1197.5	1112.7	1009.9	890.0	754.3
-57.5°	565.5	593.6	613.4	624.3	613.4	593.6	565.5	529.7	486.7	437.3	382.1
-60°	277.8	281.1	283.1	283.8	283.1	281.1	277.8	273.4	267.9	261.6	254.4
-62.5°	223.8	226.4	227.4	227.0	227.4	226.4	223.8	219.8	214.3	207.3	198.9
-65°	160.5	161.5	161.6	160.8	161.6	161.5	160.5	158.6	155.6	151.5	146.3
-67.5°	120.7	122.0	122.7	123.0	122.7	122.0	120.7	118.9	116.6	113.8	110.6
-70°	92.6	93.7	94.4	94.6	94.4	93.7	92.6	91.0	89.0	86.5	83.7
-72.5°	65.0	65.7	66.1	66.2	66.1	65.7	65.0	64.1	63.0	61.6	59.9
-75°	46.8	47.1	47.2	47.3	47.2	47.1	46.8	46.4	45.9	45.3	44.6
-77.5°	37.4	37.6	37.8	37.8	37.8	37.6	37.4	37.1	36.7	36.2	35.6
-80°	27.9	28.1	28.3	28.4	28.3	28.1	27.9	27.5	27.1	26.7	26.3
-82.5°	12.7	11.6	10.6	9.5	10.6	11.6	12.7	13.7	14.8	15.8	16.9
-85°	12.5	11.5	10.5	9.5	10.5	11.5	12.5	13.4	14.3	15.1	16.0
-87.5°	3.1	2.1	1.1	0.0	1.1	2.1	3.1	4.2	5.2	6.1	7.1
-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: P699920 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.8	17.5	17.1	16.8	16.4	15.9	15.5	15.0	14.5	13.9	13.4
85°	17.8	18.9	19.8	20.6	21.2	21.8	22.3	22.6	22.8	22.9	22.9
82.5°	18.7	19.0	20.0	21.1	22.2	23.2	24.3	25.3	26.4	27.4	28.4
80°	26.1	25.6	26.0	26.3	26.6	26.8	26.9	27.0	27.0	27.5	28.6
77.5°	34.9	34.3	33.9	33.7	33.7	33.9	34.2	34.5	34.3	34.0	33.4
75°	43.8	42.9	41.9	40.7	39.5	38.2	37.4	37.1	37.1	37.4	37.9
72.5°	52.7	51.6	50.4	49.1	47.7	46.1	44.5	42.7	40.9	39.0	38.3
70°	66.2	63.6	60.6	57.8	55.8	54.0	52.1	50.1	48.0	45.8	43.8
67.5°	79.7	77.9	75.2	71.8	67.8	64.1	60.7	57.6	55.1	52.6	50.0
65°	91.9	88.6	85.2	82.7	79.5	75.6	70.9	66.3	62.5	59.3	56.4
62.5°	112.2	106.2	100.1	95.6	91.3	87.4	83.3	78.2	72.1	65.8	62.7
60°	138.7	135.1	129.4	121.3	110.6	97.9	93.2	88.9	85.2	78.5	71.5
57.5°	168.7	165.3	161.8	155.5	146.4	134.3	119.1	100.7	92.0	88.9	83.8
55°	216.7	207.7	200.8	192.7	183.6	172.7	158.3	140.4	121.2	97.8	93.2
52.5°	328.6	300.6	270.7	239.0	223.6	211.9	198.8	181.2	169.6	153.3	119.6
50°	491.8	438.3	384.4	335.1	297.4	258.6	236.2	220.9	215.4	205.8	185.9
47.5°	687.6	608.7	529.1	461.3	399.2	342.8	298.7	260.5	254.4	249.4	236.4
45°	857.5	782.6	699.2	608.1	518.8	445.9	380.2	342.5	298.7	282.2	277.7
42.5°	968.3	923.6	852.3	758.0	657.6	560.5	490.5	446.2	387.8	329.4	305.4
40°	1045.3	1006.0	954.6	894.7	797.5	682.8	640.6	575.9	504.3	421.0	345.5
37.5°	1154.7	1074.6	1029.6	978.6	909.2	870.0	823.5	747.2	645.5	541.0	437.0
35°	1407.8	1256.8	1127.6	1043.0	1002.5	1072.4	1050.9	949.3	826.8	687.9	546.3
32.5°	2022.7	1752.2	1351.1	1187.2	1245.6	1326.3	1301.1	1197.5	1030.9	865.9	692.9
30°	3487.0	2813.7	2098.0	1774.7	1864.7	1705.4	1610.0	1479.3	1287.9	1061.8	853.0
27.5°	6336.2	4726.4	3760.7	4010.4	3117.2	2561.1	2081.7	1805.6	1571.7	1303.0	1041.0
25°	11146.4	8656.9	8176.2	7907.1	6469.1	3913.2	2891.3	2294.7	1905.1	1570.1	1235.0
22.5°	18199.2	16058.0	14680.7	13162.9	11076.7	7670.0	4374.2	2891.3	2278.1	1868.4	1505.5
20°	28468.5	25062.9	22486.9	19905.4	16802.4	12514.0	6850.7	4104.2	2890.2	2350.5	1839.4
17.5°	38493.4	35045.7	30930.1	27273.6	23333.5	18192.9	11554.8	5896.5	3868.4	2939.1	2219.7
15°	46980.3	43911.7	39792.0	35152.6	30267.1	24414.2	16848.0	8133.0	5190.6	3722.8	2710.5
12.5°	52743.7	51222.0	48193.2	42950.0	37209.6	30777.4	22330.2	12625.8	7030.7	4666.5	3254.4
10°	57372.9	56826.8	54032.0	48987.5	43371.1	36811.5	27849.5	17019.5	8873.0	5661.7	3822.9
7.5°	60695.1	59151.3	57581.4	53973.3	48802.3	42579.4	33242.7	21178.3	10664.8	6671.3	4394.4
5°	62762.5	61011.6	60394.2	58059.1	53568.3	47973.6	38312.8	24950.5	12348.0	7653.5	4945.3
2.5°	64393.9	62615.2	62662.3	61427.8	57761.4	52878.1	42843.4	28172.9	13859.8	8563.8	5450.4
0°	65697.3	64108.1	64628.4	64306.7	61497.2	57174.2	46607.7	30677.7	15135.5	9355.6	5883.9
-2.5°	68380.0	67104.8	67590.1	67202.1	64485.1	59892.4	48513.8	31717.9	15822.9	9666.3	5989.6
-5°	71008.0	70202.5	70570.2	69938.9	67169.4	61772.5	49266.8	31771.4	16141.4	9777.7	5986.0
-7.5°	73703.0	73439.9	73612.7	72592.2	69577.2	62717.2	48726.9	30749.6	16028.4	9658.2	5862.6
-10°	76934.3	76866.4	76753.7	75229.7	71737.9	62653.3	46782.5	28582.2	15429.2	9280.0	5610.3
-12.5°	81019.4	80591.4	79752.9	77891.0	73681.3	61533.4	43354.5	25219.6	14298.6	8619.6	5221.7
-15°	85158.5	83858.2	81896.5	78765.4	71972.6	57939.3	38500.7	20633.8	12602.8	7658.8	4691.1
-17.5°	88364.5	86238.7	83438.1	79076.9	67869.0	51067.1	32592.1	18325.2	11084.6	6656.5	4049.0
-20°	90669.0	87650.0	83193.0	74785.5	61259.9	43041.8	25686.0	15615.2	9493.0	5818.0	3514.6



REPORT NUMBER: P699920 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-1L-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	90994.2	86943.7	79887.0	68543.9	51444.9	34586.8	20960.8	12830.3	7732.2	4826.2	2883.5
-25°	88275.2	82699.7	72323.0	57052.9	41046.4	25729.8	16664.6	10633.5	6634.7	4030.2	2230.4
-27.5°	81022.0	72770.5	59651.0	44863.0	30110.9	20265.6	13132.0	8289.8	5345.0	3242.1	1876.7
-30°	68317.5	56772.1	44982.3	32387.3	22668.0	15039.2	9891.8	6677.7	4221.5	2434.6	1447.1
-32.5°	50648.9	40704.5	30507.2	23228.9	16159.2	11102.7	7692.8	5036.6	3047.5	1902.3	1132.8
-35°	33671.5	27231.4	21094.5	15985.3	11458.1	8282.0	5604.4	3597.1	2272.1	1366.5	825.1
-37.5°	22924.0	18386.3	14643.1	10948.0	8299.5	5840.8	3862.8	2518.4	1547.3	986.5	621.6
-40°	15697.0	12453.2	10067.6	7663.6	5655.6	3771.5	2602.6	1649.1	1082.6	673.3	466.3
-42.5°	10627.1	8584.7	6734.3	5053.0	3519.0	2508.3	1646.1	1088.9	694.1	487.9	395.3
-45°	6944.0	5520.3	4112.4	3144.3	2203.2	1544.5	984.8	675.9	475.4	389.6	343.6
-47.5°	4182.2	3325.1	2468.9	1840.0	1306.2	852.1	623.0	430.1	372.1	327.3	328.1
-50°	2325.2	1854.2	1379.4	969.1	741.2	527.3	407.4	337.9	305.9	303.5	285.4
-52.5°	1164.2	953.9	747.3	547.4	437.9	360.6	298.0	280.7	272.5	247.3	194.9
-55°	597.0	497.2	417.8	343.9	290.4	276.5	261.6	239.4	208.6	169.7	147.6
-57.5°	321.8	282.4	273.0	262.4	250.9	231.4	206.2	178.0	157.2	137.8	119.0
-60°	246.7	239.3	225.6	209.3	190.2	169.2	154.8	139.5	123.4	112.5	100.9
-62.5°	189.2	177.2	165.4	154.8	143.3	130.9	119.9	111.5	102.7	93.1	83.0
-65°	139.9	132.1	123.4	117.5	111.3	104.6	97.5	89.9	82.0	73.6	65.4
-67.5°	106.8	102.6	97.9	92.8	87.3	81.3	74.9	68.2	62.8	57.8	53.3
-70°	80.4	76.7	72.5	68.0	64.2	60.6	56.9	52.9	48.7	45.8	44.2
-72.5°	58.0	55.8	53.5	50.9	48.0	46.1	44.5	42.7	40.9	39.0	38.3
-75°	43.8	42.9	41.9	40.7	39.5	38.2	37.4	37.1	37.1	37.4	37.9
-77.5°	34.9	34.3	33.9	33.7	33.7	33.9	34.2	34.5	34.3	34.0	33.4
-80°	25.9	25.6	26.0	26.3	26.6	26.8	26.9	27.0	27.0	27.0	26.9
-82.5°	17.9	19.0	19.7	20.3	20.8	21.2	21.3	21.3	21.1	20.7	20.1
-85°	16.7	17.5	17.3	17.3	17.2	17.3	17.4	17.6	17.9	18.4	18.9
-87.5°	7.9	8.8	9.6	10.3	10.9	11.5	12.1	12.5	12.9	13.2	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: P699920 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-1L-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°	13.5	13.5	13.4	13.3	13.0	12.6	12.1	11.6	10.9	9.7	8.5
85°	22.9	23.1	23.5	23.9	24.5	25.2	24.3	23.1	21.7	19.4	17.1
82.5°	28.4	27.9	27.3	26.9	26.8	26.9	27.1	27.7	28.4	28.4	25.6
80°	29.3	29.7	29.8	29.6	29.2	28.4	28.1	28.1	28.4	28.4	28.4
77.5°	32.7	32.2	32.0	32.2	32.1	31.6	30.6	29.3	28.4	28.4	28.4
75°	37.8	36.6	35.6	35.0	34.7	34.9	34.1	32.8	31.0	28.7	28.4
72.5°	38.9	39.0	38.6	37.7	36.8	36.4	36.5	36.5	34.4	31.8	29.1
70°	42.2	41.2	40.9	40.4	39.2	37.6	37.3	37.5	37.8	34.9	31.8
67.5°	47.2	45.3	44.0	43.2	42.4	40.7	38.4	37.7	38.0	37.8	34.4
65°	53.3	50.2	47.1	45.7	44.9	44.3	42.0	38.9	38.4	38.4	37.1
62.5°	59.3	55.9	52.3	48.7	46.6	46.0	45.7	42.6	39.4	39.0	38.4
60°	65.2	61.5	57.6	53.6	49.5	46.9	46.8	46.2	42.4	39.8	39.2
57.5°	75.9	67.7	62.8	58.5	54.1	49.5	47.2	47.4	45.2	41.8	40.1
55°	87.1	78.6	69.5	63.2	58.5	53.6	48.7	47.7	47.4	44.0	41.1
52.5°	97.3	89.2	79.4	69.5	62.8	57.6	52.3	48.2	48.0	46.0	42.7
50°	138.2	100.2	89.8	78.6	67.7	61.5	55.9	51.0	48.7	47.5	44.2
47.5°	212.4	147.2	101.2	88.0	75.9	65.2	59.5	53.9	49.6	48.4	45.6
45°	261.1	226.3	140.5	99.5	83.8	71.7	63.3	56.5	51.8	49.3	46.8
42.5°	299.9	279.7	221.4	112.4	94.4	79.4	67.1	59.8	53.9	50.4	47.8
40°	325.3	315.8	292.1	192.0	105.9	87.2	73.8	63.4	55.7	51.7	48.8
37.5°	347.7	342.8	325.3	274.3	133.2	98.1	80.8	67.0	57.7	53.1	49.9
35°	431.7	362.3	357.9	323.5	202.7	108.9	87.7	71.6	60.9	54.4	50.9
32.5°	522.6	401.4	375.6	342.2	266.8	119.4	96.1	77.7	64.0	55.4	52.1
30°	652.0	486.1	383.3	358.8	313.0	170.4	105.4	83.6	67.2	56.3	53.2
27.5°	797.1	564.6	406.1	368.7	326.9	220.1	114.3	89.3	70.2	57.8	54.0
25°	949.4	676.5	474.1	378.1	339.1	264.9	122.8	95.0	74.3	60.2	54.6
22.5°	1134.6	802.3	540.2	389.1	349.4	304.0	145.3	102.0	78.8	62.5	55.2
20°	1335.6	928.4	603.9	409.3	358.1	312.5	178.5	108.7	83.1	64.7	55.7
17.5°	1562.5	1074.7	699.7	460.9	366.9	319.6	207.4	114.9	87.0	66.8	56.0
15°	1873.2	1245.1	798.4	508.6	375.9	325.2	231.9	120.5	90.6	68.7	56.3
12.5°	2199.1	1414.9	891.3	552.0	384.9	329.4	252.2	125.7	93.9	70.4	56.5
10°	2529.5	1579.4	976.4	590.3	393.5	332.2	268.2	130.2	96.8	72.0	56.7
7.5°	2852.3	1733.7	1051.9	623.1	401.3	333.6	280.2	134.2	99.3	73.3	56.7
5°	3154.5	1872.4	1115.9	649.5	408.0	333.9	288.3	137.5	101.4	74.4	56.8
2.5°	3422.4	1990.1	1166.4	669.1	413.1	333.0	292.5	140.0	103.0	75.2	56.8
0°	3642.0	2081.1	1201.4	681.1	416.2	331.1	293.2	141.9	104.1	75.7	56.8
-2.5°	3675.3	2082.3	1194.3	675.6	415.7	334.9	299.1	142.5	104.3	75.9	57.1
-5°	3640.6	2049.7	1169.4	662.3	413.3	338.1	301.0	142.3	103.9	75.9	57.4
-7.5°	3532.9	1981.6	1126.7	641.3	409.1	340.9	298.7	141.2	103.1	75.5	57.7
-10°	3347.7	1876.9	1066.0	613.1	403.6	343.7	291.5	139.3	101.7	74.8	58.0
-12.5°	3081.6	1734.7	987.4	577.8	397.0	346.8	279.3	136.6	99.9	73.9	58.2
-15°	2731.8	1554.3	890.9	535.8	389.8	350.3	261.5	132.9	97.5	72.6	58.3
-17.5°	2296.6	1335.5	776.8	487.5	382.1	354.7	237.9	128.3	94.6	71.0	58.3
-20°	1988.2	1140.1	658.2	433.3	374.3	360.0	208.3	122.9	91.3	69.2	58.3



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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°	1677.6	981.1	591.5	413.1	371.6	366.6	172.3	116.4	87.5	67.1	58.1
-25°	1325.4	804.3	519.3	402.6	377.7	325.1	147.8	109.1	83.2	64.7	57.8
-27.5°	1076.8	640.6	441.9	393.1	385.7	274.8	139.0	103.7	79.0	62.0	57.5
-30°	870.8	552.2	416.3	389.5	395.9	216.7	129.0	97.9	75.7	60.6	56.9
-32.5°	661.1	459.0	407.2	401.5	349.8	155.3	118.1	91.6	72.1	60.1	55.6
-35°	547.6	414.5	392.9	416.5	271.2	142.3	107.9	84.8	68.2	59.3	54.0
-37.5°	426.4	391.2	395.5	376.3	183.6	128.2	100.0	79.2	64.0	58.4	52.2
-40°	394.2	374.5	395.4	268.4	147.5	113.0	91.6	74.3	61.9	57.2	50.4
-42.5°	358.2	370.9	313.5	163.6	129.7	103.1	83.1	69.1	60.4	55.3	48.5
-45°	349.5	326.6	206.5	142.1	112.3	93.0	77.0	64.1	58.7	53.0	46.8
-47.5°	314.6	221.1	150.2	121.2	100.8	83.4	70.7	61.8	56.7	50.6	45.6
-50°	214.7	153.9	127.0	106.1	88.9	75.9	65.0	59.3	53.9	48.1	44.2
-52.5°	153.0	128.3	108.7	92.8	79.4	67.9	61.8	56.5	51.0	46.0	42.7
-55°	125.2	108.7	94.1	81.2	70.0	62.7	57.9	53.1	48.0	44.0	41.1
-57.5°	106.1	92.8	81.0	70.2	62.8	57.9	53.9	49.7	45.2	41.8	40.1
-60°	89.2	78.5	68.3	61.8	56.9	53.1	49.8	46.2	42.4	39.8	39.2
-62.5°	73.2	64.8	59.5	54.8	51.4	48.6	45.7	42.6	39.4	39.0	38.4
-65°	60.1	55.3	51.3	48.9	46.5	44.3	42.0	38.9	38.4	38.4	37.1
-67.5°	49.2	47.5	45.6	43.6	42.4	40.7	38.4	37.7	38.0	37.8	34.4
-70°	42.9	41.4	40.9	40.4	39.2	37.6	37.3	37.5	37.8	34.9	31.8
-72.5°	38.9	39.0	38.6	37.7	36.8	36.4	36.5	36.4	34.4	31.8	29.1
-75°	37.8	36.6	35.6	35.0	34.7	34.8	33.7	32.5	31.0	28.7	28.4
-77.5°	32.7	32.2	32.0	31.5	30.8	30.1	29.3	28.5	28.4	28.4	28.4
-80°	26.7	26.5	26.3	26.0	25.7	25.4	26.4	27.5	28.4	28.4	28.4
-82.5°	20.3	21.1	22.2	23.2	24.3	25.3	26.4	27.4	28.4	28.4	25.6
-85°	20.0	21.1	22.1	23.2	24.2	25.2	24.3	23.1	21.7	19.4	17.1
-87.5°	13.5	13.5	13.4	13.3	13.0	12.6	12.1	11.6	10.9	9.7	8.5
-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°	7.3	6.1	4.9	3.7	2.5	1.2	0.0
85°	14.7	12.3	9.9	7.4	4.9	2.5	0.0
82.5°	22.0	18.4	14.8	11.1	7.4	3.7	0.0
80°	28.4	24.5	19.6	14.8	9.9	4.9	0.0
77.5°	28.4	28.4	24.5	18.4	12.3	6.1	0.0
75°	28.4	28.4	28.4	22.0	14.7	7.3	0.0
72.5°	28.4	28.4	28.4	25.6	17.1	8.5	0.0
70°	28.7	28.4	28.4	28.4	19.4	9.7	0.0
67.5°	31.0	28.4	28.4	28.4	21.7	10.9	0.0
65°	33.2	29.3	28.4	28.4	24.0	12.0	0.0
62.5°	35.4	31.2	28.4	28.4	26.2	13.1	0.0
60°	37.6	33.0	28.4	28.4	28.4	14.2	0.0
57.5°	38.6	34.7	29.7	28.4	28.4	15.3	0.0
55°	39.6	36.4	31.1	28.4	28.4	16.3	0.0
52.5°	40.6	38.0	32.4	28.4	28.4	17.3	0.0
50°	41.6	38.9	33.7	28.4	28.4	18.3	0.0
47.5°	42.7	39.8	34.9	28.6	28.4	19.2	0.0
45°	43.8	40.8	36.1	29.5	28.4	20.1	0.0
42.5°	44.7	41.8	37.3	30.4	28.4	20.9	0.0
40°	45.5	42.8	38.2	31.2	28.4	21.8	0.0
37.5°	46.3	43.8	39.0	31.9	28.4	22.5	0.0
35°	46.9	44.5	39.7	32.7	28.4	23.3	0.0
32.5°	47.6	45.0	40.5	33.4	28.4	24.0	0.0
30°	48.4	45.5	41.2	34.0	28.4	24.6	0.0
27.5°	49.3	45.9	41.9	34.6	28.4	25.2	0.0
25°	50.2	46.2	42.6	35.1	28.4	25.7	0.0
22.5°	51.1	46.5	43.3	35.6	28.4	26.2	0.0
20°	51.9	46.7	43.9	36.1	28.4	26.7	0.0
17.5°	52.7	46.9	44.5	36.5	28.4	27.1	0.0
15°	53.5	47.1	45.0	36.8	28.4	27.4	0.0
12.5°	54.2	47.2	45.6	37.1	28.4	27.7	0.0
10°	54.9	47.2	46.0	37.4	28.4	28.0	0.0
7.5°	55.5	47.3	46.4	37.6	28.4	28.2	0.0
5°	56.0	47.3	46.8	37.7	28.4	28.3	0.0
2.5°	56.5	47.3	47.1	37.8	28.4	28.4	0.0
0°	56.8	47.3	47.3	37.8	28.4	28.4	0.0
-2.5°	56.7	47.3	47.1	37.8	28.4	28.4	0.0
-5°	56.6	47.3	46.8	37.7	28.4	28.3	0.0
-7.5°	56.3	47.3	46.4	37.6	28.4	28.2	0.0
-10°	55.9	47.2	46.0	37.4	28.4	28.0	0.0
-12.5°	55.4	47.2	45.6	37.1	28.4	27.7	0.0
-15°	54.8	47.1	45.0	36.8	28.4	27.4	0.0
-17.5°	54.1	46.9	44.5	36.5	28.4	27.1	0.0
-20°	53.3	46.7	43.9	36.1	28.4	26.7	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	52.4	46.5	43.3	35.6	28.4	26.2	0.0
-25°	51.4	46.2	42.6	35.1	28.4	25.7	0.0
-27.5°	50.2	45.9	41.9	34.6	28.4	25.2	0.0
-30°	49.0	45.5	41.2	34.0	28.4	24.6	0.0
-32.5°	47.7	45.0	40.5	33.4	28.4	24.0	0.0
-35°	46.9	44.5	39.7	32.7	28.4	23.3	0.0
-37.5°	46.3	43.8	39.0	31.9	28.4	22.5	0.0
-40°	45.5	42.8	38.2	31.2	28.4	21.8	0.0
-42.5°	44.7	41.8	37.3	30.4	28.4	20.9	0.0
-45°	43.8	40.8	36.1	29.5	28.4	20.1	0.0
-47.5°	42.7	39.8	34.9	28.6	28.4	19.2	0.0
-50°	41.6	38.9	33.7	28.4	28.4	18.3	0.0
-52.5°	40.6	38.0	32.4	28.4	28.4	17.3	0.0
-55°	39.6	36.4	31.1	28.4	28.4	16.3	0.0
-57.5°	38.6	34.7	29.7	28.4	28.4	15.3	0.0
-60°	37.6	33.0	28.4	28.4	28.4	14.2	0.0
-62.5°	35.4	31.2	28.4	28.4	26.2	13.1	0.0
-65°	33.2	29.3	28.4	28.4	24.0	12.0	0.0
-67.5°	31.0	28.4	28.4	28.4	21.7	10.9	0.0
-70°	28.7	28.4	28.4	28.4	19.4	9.7	0.0
-72.5°	28.4	28.4	28.4	25.6	17.1	8.5	0.0
-75°	28.4	28.4	28.4	22.0	14.7	7.3	0.0
-77.5°	28.4	28.4	24.5	18.4	12.3	6.1	0.0
-80°	28.4	24.5	19.6	14.8	9.9	4.9	0.0
-82.5°	22.0	18.4	14.8	11.1	7.4	3.7	0.0
-85°	14.7	12.3	9.9	7.4	4.9	2.5	0.0
-87.5°	7.3	6.1	4.9	3.7	2.5	1.2	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)