

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: P699855 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200L-40-70-1L-S**

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-08
Report Number: P699855 (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-40-70-1L-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 4000K, 70 CRI LEDS AND 1L BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

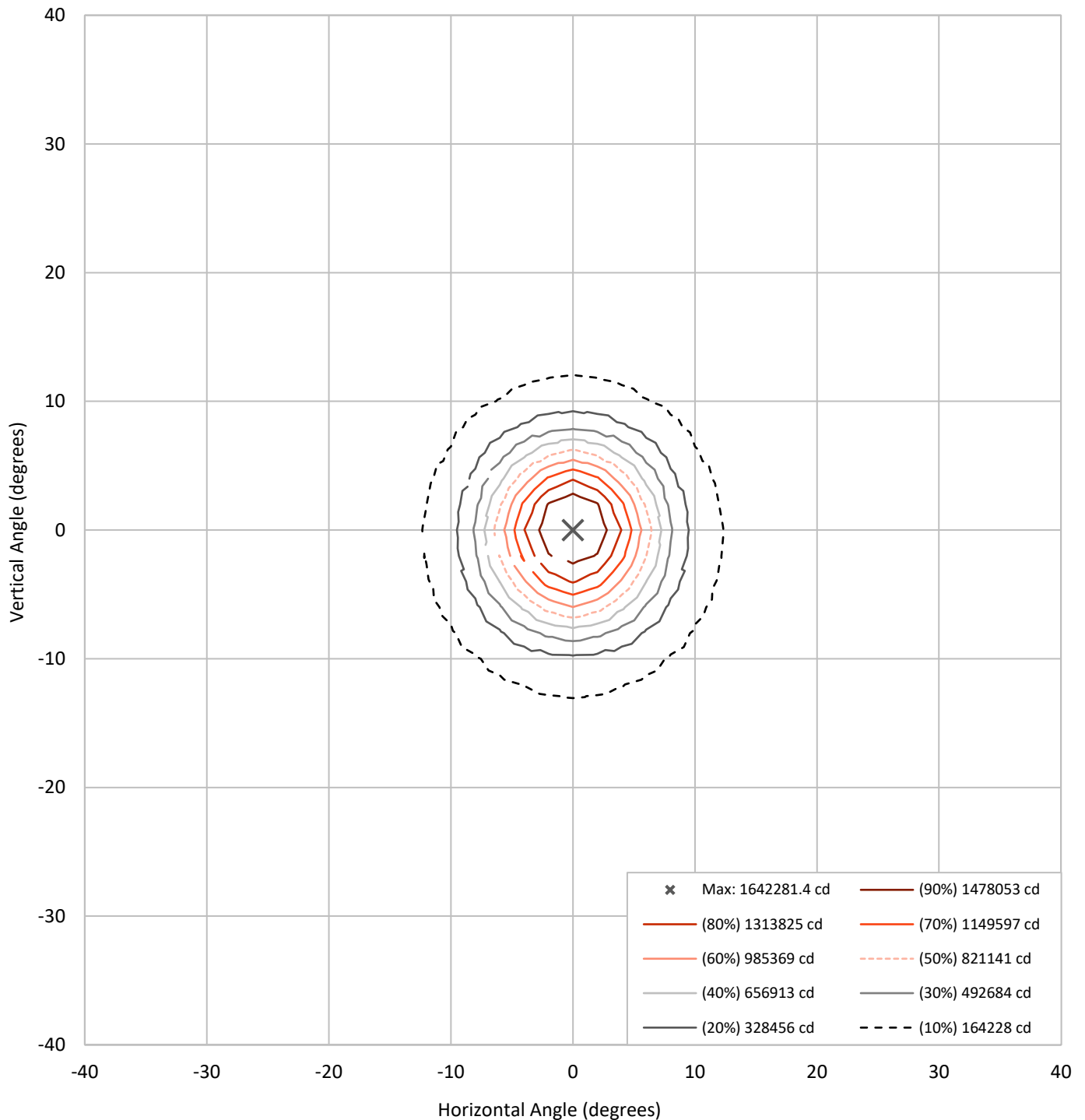
Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	170547.8 lumens	Max Intensity:	1642281.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	135.8 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		

Beam Angle (50%):	12.8°H x 13°V	Field Angle (10%):	24.4°H x 24.6°V
Beam Lumens:	42274.5 lumens	Field Lumens:	84922.4 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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Iso-Candela Plot





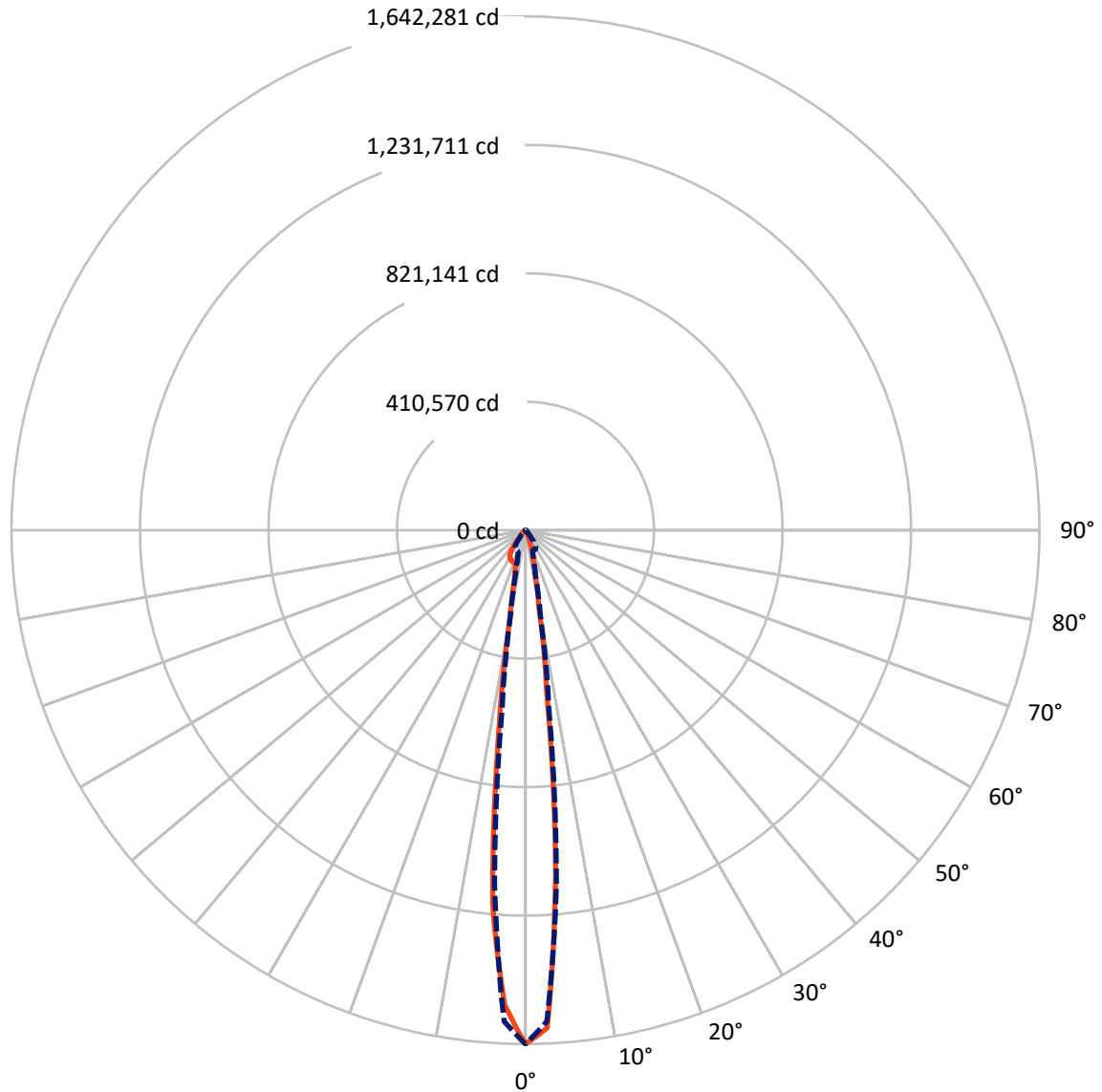
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Lumen Table

90	0.4	1.7	2.8	3.7	3.9	3.7	2.8	1.7	0.4							
80	0.4	1.7	2.8	3.7	3.9	3.7	2.8	1.7	0.4							
70	0.8	0.6	0.9	1.3	1.9	2.6	3.2	3.5	3.5	3.2	2.6	1.9	1.3	0.9	0.6	0.8
60		0.7	1.2	2.4	4.3	6.6	10.5	16.5	16.5	10.5	6.6	4.3	2.4	1.2	0.7	
50	0.9	0.8	2.4	6.3	11.0	20.1	30.6	43.7	43.7	30.6	20.1	11.0	6.3	2.4	0.8	0.9
40		1.1	5.2	13.6	27.7	39.2	59.7	70.0	70.0	59.7	39.2	27.7	13.6	5.2	1.1	
30	1.1	1.6	7.9	30.2	107.0	293.2	491.0	578.2	578.2	491.0	293.2	107.0	30.2	7.9	1.6	1.1
20		2.3	11.8	69.3	463.4	1140.9	1667.9	2842.2	2842.2	1667.9	1140.9	463.4	69.3	11.8	2.3	
10	1.1	2.6	15.7	133.1	959.5	1737.3	3019.4	19334.0	19334.0	3019.4	1737.3	959.5	133.1	15.7	2.6	1.1
0		2.7	16.4	164.7	1221.6	2058.0	3294.3	20506.6	20506.6	3294.3	2058.0	1221.6	164.7	16.4	2.7	
-10	1.1	2.5	13.2	129.6	1055.0	2351.5	2795.9	3939.1	3939.1	2795.9	2351.5	1055.0	129.6	13.2	2.5	1.1
-20		1.9	8.9	67.9	534.6	1969.2	2869.9	3163.8	3163.8	2869.9	1969.2	534.6	67.9	8.9	1.9	
-30	1.0	1.3	6.3	25.3	173.9	711.5	1576.1	2130.9	2130.9	1576.1	711.5	173.9	25.3	6.3	1.3	1.0
-40		1.0	3.3	8.9	35.8	145.2	334.9	481.0	481.0	334.9	145.2	35.8	8.9	3.3	1.0	
-50	0.8	0.7	1.6	3.8	7.3	16.9	38.9	57.7	57.7	38.9	16.9	7.3	3.8	1.6	0.7	0.8
-60		0.6	0.9	1.6	2.7	3.9	5.0	5.6	5.6	5.0	3.9	2.7	1.6	0.9	0.6	
-70	0.4	1.7	2.7	3.7	4.0	3.7	2.7	1.7	0.4							
-80		0.4	1.7	2.7	3.7	4.0	3.7	2.7	1.7	0.4						
-90	0.4	1.7	2.7	3.7	4.0	3.7	2.7	1.7	0.4							

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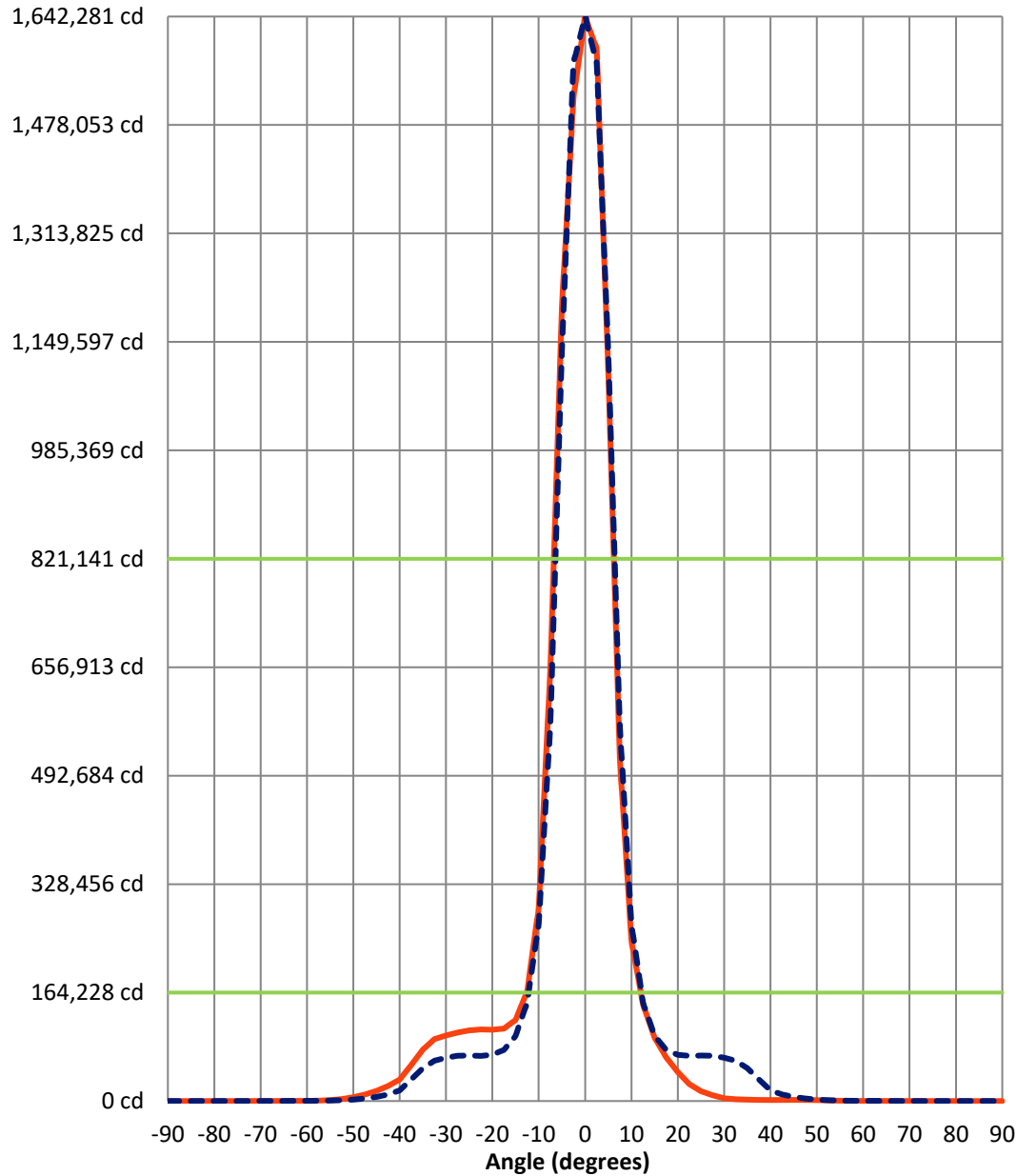
Luminous Intensity Polar Plot



— 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: 42274.5
 Efficiency: 24.8%

Field:
 H Angle: 24.4°
 V Angle: 24.6°
 Lumens: 84922.4
 Efficiency: 49.8%

Spill:
 Lumens: 85625.4
 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	1.3	2.6	4.0	5.3	6.6	7.8	9.1	10.4	11.6	12.3
85°	0.0	2.6	5.3	7.9	10.5	13.1	15.7	18.2	20.7	23.2	24.7
82.5°	0.0	4.0	7.9	11.8	15.7	19.6	23.5	27.3	30.3	30.3	29.5
80°	0.0	5.3	10.5	15.7	20.9	26.1	30.3	30.3	30.3	30.3	30.0
77.5°	0.0	6.6	13.1	19.6	26.1	30.3	30.3	30.3	30.3	30.3	31.2
75°	0.0	7.8	15.7	23.5	30.3	30.3	30.3	30.3	30.6	33.1	35.1
72.5°	0.0	9.1	18.2	27.3	30.3	30.3	30.3	31.1	33.9	36.8	39.0
70°	0.0	10.4	20.7	30.3	30.3	30.3	30.6	33.9	37.2	40.4	40.0
67.5°	0.0	11.6	23.2	30.3	30.3	30.3	33.1	36.8	40.4	40.7	40.3
65°	0.0	12.8	25.6	30.3	30.3	31.3	35.5	39.6	41.0	41.0	41.5
62.5°	0.0	14.0	28.0	30.3	30.3	33.3	37.8	41.0	41.7	42.1	45.4
60°	0.0	15.1	30.3	30.3	30.3	35.2	40.1	41.9	42.5	45.2	49.2
57.5°	0.0	16.3	30.3	30.3	31.7	37.1	41.3	42.8	44.6	48.2	50.5
55°	0.0	17.4	30.3	30.3	33.2	38.9	42.3	43.9	46.9	50.5	50.8
52.5°	0.0	18.4	30.3	30.3	34.6	40.6	43.3	45.5	49.0	51.2	51.4
50°	0.0	19.5	30.3	30.3	36.0	41.5	44.4	47.1	50.6	51.9	54.4
47.5°	0.0	20.5	30.3	30.5	37.3	42.5	45.6	48.6	51.6	52.9	57.4
45°	0.0	21.4	30.3	31.5	38.6	43.5	46.7	49.9	52.6	55.2	60.1
42.5°	0.0	22.3	30.3	32.4	39.8	44.6	47.7	51.0	53.7	57.4	63.7
40°	0.0	23.2	30.3	33.3	40.8	45.6	48.6	52.0	55.0	59.3	67.6
37.5°	0.0	24.0	30.3	34.1	41.6	46.7	49.3	53.1	56.6	61.5	71.4
35°	0.0	24.8	30.3	34.9	42.4	47.5	50.0	54.3	57.9	64.9	76.4
32.5°	0.0	25.6	30.3	35.6	43.2	48.0	50.7	55.5	59.0	68.2	82.8
30°	0.0	26.2	30.3	36.3	44.0	48.5	51.6	56.6	60.0	71.6	89.2
27.5°	0.0	26.9	30.3	37.0	44.7	48.9	52.5	57.5	61.5	74.9	95.3
25°	0.0	27.5	30.3	37.5	45.4	49.3	53.5	58.2	64.1	79.3	101.3
22.5°	0.0	28.0	30.3	38.1	46.1	49.6	54.4	58.8	66.6	84.1	108.8
20°	0.0	28.5	30.3	38.6	46.8	49.8	55.3	59.3	69.0	88.6	115.9
17.5°	0.0	28.9	30.3	39.0	47.4	50.0	56.2	59.7	71.2	92.8	122.5
15°	0.0	29.3	30.3	39.4	48.0	50.1	57.0	60.0	73.2	96.6	128.6
12.5°	0.0	29.6	30.3	39.7	48.6	50.3	57.8	60.2	75.1	100.1	134.0
10°	0.0	29.8	30.3	39.9	49.1	50.3	58.5	60.3	76.7	103.2	138.9
7.5°	0.0	30.0	30.3	40.1	49.5	50.4	59.1	60.4	78.1	105.9	143.1
5°	0.0	30.2	30.3	40.3	49.9	50.4	59.7	60.5	79.3	108.1	146.6
2.5°	0.0	30.3	30.3	40.4	50.2	50.4	60.1	60.5	80.1	109.8	149.3
0°	0.0	30.3	30.3	40.4	50.4	50.4	60.5	60.5	80.7	111.0	151.3
-2.5°	0.0	30.3	30.3	40.4	50.2	50.4	60.4	60.9	80.9	111.2	151.9
-5°	0.0	30.2	30.3	40.3	49.9	50.4	60.3	61.2	80.9	110.8	151.7
-7.5°	0.0	30.0	30.3	40.1	49.5	50.4	60.0	61.5	80.5	109.9	150.6
-10°	0.0	29.8	30.3	39.9	49.1	50.3	59.6	61.8	79.8	108.5	148.6
-12.5°	0.0	29.6	30.3	39.7	48.6	50.3	59.0	62.0	78.7	106.5	145.6
-15°	0.0	29.3	30.3	39.4	48.0	50.1	58.4	62.1	77.4	104.0	141.7
-17.5°	0.0	28.9	30.3	39.0	47.4	50.0	57.6	62.1	75.7	100.9	136.9
-20°	0.0	28.5	30.3	38.6	46.8	49.8	56.8	62.1	73.8	97.4	131.0



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 CATALOG NUMBER: EPH-LS-16-1200L-40-70-1L-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	28.0	30.3	38.1	46.1	49.6	55.8	61.9	71.5	93.3	124.2
-25°	0.0	27.5	30.3	37.5	45.4	49.3	54.7	61.6	68.9	88.7	116.4
-27.5°	0.0	26.9	30.3	37.0	44.7	48.9	53.5	61.2	66.1	84.3	110.6
-30°	0.0	26.2	30.3	36.3	44.0	48.5	52.2	60.7	64.6	80.7	104.4
-32.5°	0.0	25.6	30.3	35.6	43.2	48.0	50.8	59.3	64.0	76.9	97.7
-35°	0.0	24.8	30.3	34.9	42.4	47.5	50.0	57.5	63.2	72.7	90.5
-37.5°	0.0	24.0	30.3	34.1	41.6	46.7	49.3	55.7	62.2	68.3	84.5
-40°	0.0	23.2	30.3	33.3	40.8	45.6	48.6	53.7	60.9	66.0	79.2
-42.5°	0.0	22.3	30.3	32.4	39.8	44.6	47.7	51.6	58.9	64.4	73.6
-45°	0.0	21.4	30.3	31.5	38.6	43.5	46.7	49.9	56.4	62.6	68.3
-47.5°	0.0	20.5	30.3	30.5	37.3	42.5	45.6	48.6	53.9	60.4	65.9
-50°	0.0	19.5	30.3	30.3	36.0	41.5	44.4	47.1	51.2	57.4	63.2
-52.5°	0.0	18.4	30.3	30.3	34.6	40.6	43.3	45.5	49.0	54.3	60.1
-55°	0.0	17.4	30.3	30.3	33.2	38.9	42.3	43.9	46.9	51.1	56.6
-57.5°	0.0	16.3	30.3	30.3	31.7	37.1	41.3	42.8	44.6	48.2	52.9
-60°	0.0	15.1	30.3	30.3	30.3	35.2	40.1	41.9	42.5	45.2	49.2
-62.5°	0.0	14.0	28.0	30.3	30.3	33.3	37.8	41.0	41.7	42.1	45.4
-65°	0.0	12.8	25.6	30.3	30.3	31.3	35.5	39.6	41.0	41.0	41.5
-67.5°	0.0	11.6	23.2	30.3	30.3	30.3	33.1	36.8	40.4	40.7	40.3
-70°	0.0	10.4	20.7	30.3	30.3	30.3	30.6	33.9	37.2	40.4	40.0
-72.5°	0.0	9.1	18.2	27.3	30.3	30.3	30.3	31.1	33.9	36.8	38.9
-75°	0.0	7.8	15.7	23.5	30.3	30.3	30.3	30.3	30.6	33.1	34.7
-77.5°	0.0	6.6	13.1	19.6	26.1	30.3	30.3	30.3	30.3	30.3	30.4
-80°	0.0	5.3	10.5	15.7	20.9	26.1	30.3	30.3	30.3	30.3	29.3
-82.5°	0.0	4.0	7.9	11.8	15.7	19.6	23.5	27.3	30.3	30.3	29.3
-85°	0.0	2.6	5.3	7.9	10.5	13.1	15.7	18.2	20.7	23.2	24.7
-87.5°	0.0	1.3	2.6	4.0	5.3	6.6	7.8	9.1	10.4	11.6	12.3
-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-40-70-1L-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°	13.0	13.5	13.9	14.2	14.4	14.4	14.4	14.3	14.9	15.5	16.0
85°	25.9	27.0	26.2	25.5	25.1	24.7	24.5	24.4	24.5	24.4	24.2
82.5°	29.0	28.7	28.6	28.7	29.1	29.7	30.3	30.3	29.3	28.2	27.0
80°	30.0	30.3	31.1	31.6	31.8	31.7	31.2	30.5	29.4	28.8	28.8
77.5°	32.7	33.7	34.3	34.4	34.1	34.3	34.9	35.7	36.3	36.6	36.9
75°	36.4	37.2	37.1	37.4	38.0	39.1	40.4	40.5	40.0	39.6	39.6
72.5°	39.0	38.9	39.3	40.3	41.3	41.7	41.6	40.9	41.6	43.7	45.6
70°	39.8	40.2	41.9	43.1	43.7	44.0	45.1	46.7	48.8	51.2	53.4
67.5°	41.0	43.5	45.2	46.1	46.9	48.3	50.3	53.2	56.0	58.7	61.4
65°	44.8	47.2	47.9	48.7	50.2	53.5	56.8	60.0	63.1	66.7	70.7
62.5°	48.7	49.0	49.6	51.8	55.8	59.6	63.2	66.8	70.2	76.9	83.4
60°	49.9	50.0	52.8	57.1	61.4	65.5	69.6	76.3	83.8	90.9	94.9
57.5°	50.3	52.8	57.6	62.3	66.9	72.3	81.0	89.4	94.9	98.1	107.4
55°	51.8	57.1	62.3	67.4	74.1	83.8	92.9	99.5	104.3	129.3	149.7
52.5°	55.8	61.4	66.9	74.1	84.8	95.1	103.8	127.6	163.4	180.8	193.3
50°	59.6	65.5	72.3	83.8	95.8	106.9	147.4	198.2	219.4	229.7	235.7
47.5°	63.4	69.6	81.0	93.9	107.9	157.0	226.5	252.1	266.1	271.4	277.8
45°	67.4	76.5	89.4	106.1	149.8	241.4	278.5	296.2	301.0	318.6	365.3
42.5°	71.6	84.7	100.7	119.9	236.1	298.3	319.9	325.8	351.3	413.7	475.9
40°	78.7	93.0	113.0	204.8	311.6	336.8	347.0	368.6	449.0	537.9	614.4
37.5°	86.2	104.7	142.2	292.6	347.0	365.7	370.9	466.2	577.1	688.5	797.0
35°	93.6	116.1	216.2	345.0	381.8	386.5	460.5	582.7	733.8	881.9	1012.5
32.5°	102.6	127.4	284.6	365.0	400.6	428.2	557.4	739.1	923.6	1099.6	1277.3
30°	112.4	181.8	333.8	382.8	408.9	518.5	695.5	909.9	1132.5	1373.7	1577.9
27.5°	121.9	234.8	348.7	393.3	433.2	602.3	850.3	1110.4	1389.8	1676.4	1925.9
25°	131.0	282.5	361.7	403.4	505.8	721.6	1012.7	1317.3	1674.7	2032.1	2447.6
22.5°	155.0	324.2	372.7	415.0	576.3	855.8	1210.3	1605.8	1992.8	2429.9	3083.9
20°	190.4	333.4	382.0	436.6	644.1	990.3	1424.6	1961.9	2507.1	3082.8	4377.7
17.5°	221.2	340.9	391.3	491.6	746.3	1146.4	1666.6	2367.6	3135.0	4126.2	6289.4
15°	247.4	346.9	401.0	542.6	851.7	1328.1	1998.0	2891.1	3970.9	5536.5	8674.9
12.5°	269.0	351.3	410.6	588.8	950.7	1509.2	2345.6	3471.3	4977.4	7499.2	13467.1
10°	286.1	354.3	419.8	629.7	1041.4	1684.6	2698.0	4077.6	6039.0	9464.1	18153.5
7.5°	298.9	355.8	428.1	664.6	1122.0	1849.2	3042.3	4687.2	7115.8	11375.4	22589.4
5°	307.5	356.1	435.2	692.8	1190.2	1997.2	3364.6	5274.8	8163.5	13170.7	26612.9
2.5°	312.1	355.2	440.7	713.7	1244.1	2122.7	3650.4	5813.6	9134.5	14783.2	30050.0
0°	312.8	353.1	444.0	726.5	1281.4	2219.8	3884.6	6276.0	9979.0	16143.9	32721.7
-2.5°	319.1	357.2	443.5	720.7	1273.8	2221.1	3920.1	6388.8	10310.4	16877.1	33831.2
-5°	321.1	360.6	440.8	706.4	1247.3	2186.3	3883.2	6384.9	10429.2	17216.9	33888.3
-7.5°	318.6	363.6	436.4	684.1	1201.7	2113.7	3768.3	6253.3	10301.8	17096.4	32798.4
-10°	311.0	366.6	430.5	653.9	1137.0	2002.0	3570.8	5984.1	9898.3	16457.2	30486.6
-12.5°	297.9	369.9	423.5	616.3	1053.1	1850.3	3286.9	5569.6	9194.0	15251.3	26900.0
-15°	278.9	373.7	415.7	571.5	950.2	1657.9	2913.9	5003.6	8169.1	13442.5	22008.6
-17.5°	253.7	378.3	407.5	520.0	828.6	1424.4	2449.7	4318.8	7100.1	11823.2	19546.2
-20°	222.1	384.0	399.2	462.1	702.1	1216.1	2120.7	3748.8	6205.7	10125.5	16655.7



REPORT NUMBER: P699855 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-1L-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	183.8	391.0	396.4	440.6	630.9	1046.5	1789.4	3075.7	5147.8	8247.4	13685.1
-25°	157.7	346.7	402.8	429.4	553.8	857.9	1413.8	2379.1	4298.7	7076.8	11342.0
-27.5°	148.2	293.1	411.4	419.3	471.3	683.2	1148.5	2001.7	3458.2	5701.1	8842.1
-30°	137.6	231.1	422.3	415.5	444.0	588.9	928.8	1543.5	2596.8	4502.8	7122.6
-32.5°	126.0	165.7	373.1	428.3	434.4	489.6	705.1	1208.3	2029.1	3250.5	5372.2
-35°	115.1	151.8	289.2	444.2	419.1	442.0	584.0	880.1	1457.5	2423.5	3836.8
-37.5°	106.6	136.8	195.8	401.3	421.9	417.3	454.7	663.0	1052.2	1650.4	2686.2
-40°	97.7	120.6	157.3	286.3	421.7	399.5	420.4	497.4	718.1	1154.7	1759.0
-42.5°	88.6	110.0	138.3	174.5	334.4	395.6	382.1	421.6	520.4	740.3	1161.4
-45°	82.2	99.2	119.8	151.6	220.2	348.3	372.7	366.6	415.5	507.0	720.9
-47.5°	75.4	88.9	107.6	129.3	160.2	235.8	335.5	350.0	349.2	396.9	458.7
-50°	69.3	81.0	94.9	113.2	135.5	164.1	228.9	304.4	323.8	326.3	360.4
-52.5°	65.8	72.5	84.7	99.0	116.0	136.9	163.1	207.8	263.7	290.7	299.4
-55°	61.7	66.8	74.6	86.6	100.4	116.0	133.6	157.4	181.0	222.5	255.3
-57.5°	57.4	61.7	66.9	74.9	86.4	99.0	113.2	127.0	147.0	167.6	189.8
-60°	53.0	56.6	60.7	65.9	72.8	83.7	95.1	107.6	120.0	131.6	148.8
-62.5°	48.7	51.8	54.8	58.4	63.4	69.1	78.1	88.5	99.3	109.6	119.0
-65°	44.8	47.2	49.6	52.1	54.6	59.0	64.1	69.7	78.5	87.4	95.9
-67.5°	41.0	43.5	45.2	46.5	48.6	50.6	52.5	56.8	61.6	66.9	72.7
-70°	39.8	40.2	41.9	43.1	43.7	44.2	45.7	47.2	48.8	51.9	56.4
-72.5°	39.0	38.9	39.3	40.3	41.3	41.7	41.6	40.9	41.6	43.7	45.6
-75°	35.9	37.2	37.1	37.4	38.0	39.1	40.4	40.5	40.0	39.6	39.6
-77.5°	31.3	32.1	32.9	33.6	34.1	34.3	34.9	35.7	36.3	36.6	36.9
-80°	28.2	27.1	27.4	27.8	28.1	28.3	28.5	28.7	28.8	28.8	28.8
-82.5°	28.1	27.0	25.9	24.8	23.7	22.6	21.7	21.5	22.1	22.6	22.8
-85°	25.9	27.0	25.9	24.7	23.6	22.5	21.4	20.2	19.6	19.2	18.8
-87.5°	13.0	13.5	13.9	14.2	14.4	14.4	14.4	14.3	14.1	13.8	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: P699855 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-1L-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°	16.5	17.0	17.5	17.9	18.3	18.7	16.9	15.0	13.0	11.0	8.8
85°	23.8	23.3	22.7	22.0	21.1	20.2	19.0	17.8	16.6	15.5	14.4
82.5°	25.9	24.8	23.7	22.5	21.4	20.3	20.0	19.9	19.9	19.9	19.9
80°	28.7	28.6	28.4	28.1	27.8	27.3	27.8	28.4	28.9	29.3	29.7
77.5°	36.6	36.2	36.0	36.0	36.2	36.6	37.3	38.0	38.7	39.2	39.6
75°	40.0	40.8	42.2	43.5	44.7	45.7	46.7	47.6	48.3	48.9	49.5
72.5°	47.4	49.2	50.8	52.3	53.7	55.0	56.1	57.1	58.0	58.8	59.4
70°	55.5	57.5	59.4	61.6	64.6	67.7	70.6	72.9	75.0	76.7	78.1
67.5°	64.7	68.4	72.3	76.5	80.2	83.0	85.0	86.4	87.5	88.5	89.3
65°	75.6	80.6	84.8	88.2	91.0	94.5	98.1	101.1	103.7	105.9	107.7
62.5°	88.9	93.2	97.4	102.0	106.8	113.3	119.7	124.7	129.0	132.8	135.8
60°	99.4	104.5	117.9	129.3	138.0	144.2	148.0	153.6	159.3	164.6	169.4
57.5°	127.0	143.3	156.2	165.9	172.6	176.4	179.9	190.3	203.7	217.2	230.5
55°	168.8	184.2	195.9	205.5	214.2	221.6	231.2	262.3	303.5	346.7	390.2
52.5°	212.0	226.0	238.6	255.0	288.7	320.6	350.5	400.6	477.3	555.9	634.2
50°	252.0	275.8	317.1	357.3	409.9	467.5	524.5	588.2	704.6	826.0	949.1
47.5°	318.6	365.6	425.8	492.0	564.4	649.2	733.4	813.1	931.5	1064.8	1197.2
45°	405.5	475.6	553.3	648.6	745.7	834.7	914.6	986.1	1071.5	1188.7	1301.2
42.5°	523.2	597.9	701.4	808.5	909.1	985.1	1032.9	1073.0	1127.5	1233.4	1325.6
40°	683.3	728.3	850.6	954.3	1018.2	1073.1	1115.0	1153.5	1195.9	1297.7	1377.5
37.5°	878.3	928.0	969.8	1043.9	1098.3	1146.2	1231.7	1311.1	1362.8	1458.4	1545.4
35°	1121.0	1143.9	1069.3	1112.5	1202.8	1340.5	1501.6	1689.3	1730.6	1756.7	1883.6
32.5°	1387.8	1414.7	1328.7	1266.3	1441.0	1869.0	2157.5	2539.1	2538.9	2233.0	2452.8
30°	1717.4	1819.1	1989.0	1892.9	2237.8	3001.1	3719.3	4298.1	4317.5	3651.6	3884.2
27.5°	2220.5	2731.7	3324.9	4277.5	4011.3	5041.3	6758.4	7656.2	8240.1	7432.1	7912.7
25°	3083.9	4173.9	6900.1	8434.0	8720.9	9233.7	11889.1	13682.1	15521.1	16037.3	15565.7
22.5°	4665.6	8181.1	11814.7	14040.0	15658.9	17128.0	19411.8	23265.0	25530.5	26511.3	26399.7
20°	7307.2	13347.8	17922.0	21231.7	23985.2	26732.8	30365.5	33888.4	36442.8	37581.5	38653.2
17.5°	12324.8	19405.1	24888.2	29090.9	32991.0	37380.8	41058.3	44281.2	46282.3	49268.5	52560.6
15°	17970.7	26040.9	32283.8	37494.8	42443.3	46837.6	50110.6	52065.3	56256.1	61244.0	67216.1
12.5°	23818.1	32828.1	39688.9	45811.8	51404.3	54634.9	56258.0	59013.4	64520.6	72501.8	85666.6
10°	29705.1	39264.2	46261.0	52251.6	57632.2	60613.2	61195.6	64210.1	71972.5	86816.8	108121.4
7.5°	35457.6	45416.5	52054.0	57569.6	61418.1	63092.5	64739.2	69491.5	80648.1	101039.1	144429.7
5°	40865.6	51170.1	57137.5	61927.6	64418.3	65076.8	66944.3	73354.1	88935.7	120466.7	192017.6
2.5°	45698.0	56401.4	61610.1	65520.8	66837.5	66787.2	68684.4	76032.0	95295.5	139801.8	245342.7
0°	49713.2	60983.7	65594.8	68591.5	68934.6	68379.6	70074.7	77561.5	98740.3	149316.2	268695.5
-2.5°	51746.3	63883.1	68781.8	71679.8	72093.6	71576.0	72936.1	79892.7	99775.0	146111.1	254134.4
-5°	52549.5	65888.3	71644.9	74599.0	75272.3	74880.1	75739.3	81336.8	97649.8	132199.6	205467.7
-7.5°	51973.5	66896.1	74213.2	77429.0	78517.5	78333.2	78613.9	82065.2	93004.1	114580.1	159553.1
-10°	49899.6	66827.8	76517.8	80242.2	81867.8	81988.0	82060.4	83372.0	89220.9	103332.1	124811.4
-12.5°	46243.2	65633.4	78590.7	83080.9	85066.9	85961.2	86417.7	87366.7	89910.5	94743.4	107675.2
-15°	41065.9	61799.8	76768.1	84013.5	87353.3	89445.7	90832.6	91615.0	93009.5	95296.9	99368.0
-17.5°	34763.7	54469.7	72391.1	84345.8	88997.6	91984.8	94252.3	96143.4	96807.6	98000.9	99870.7
-20°	27397.4	45909.7	65341.6	79768.4	88736.2	93490.1	96710.3	98575.6	99942.8	101078.0	103004.4



REPORT NUMBER: P699855 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-1L-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	22357.4	36891.3	54872.7	73111.0	85209.9	92736.8	97057.2	98979.0	100858.5	102798.0	104888.6
-25°	17774.9	27444.2	43781.3	60854.4	77141.9	88210.0	94157.0	97589.2	99867.1	102270.4	104438.0
-27.5°	14007.0	21615.9	32117.2	47852.2	63625.6	77619.2	86420.5	93658.7	96735.0	99724.9	101486.2
-30°	10550.9	16041.3	24178.3	34545.2	47979.5	60554.9	72869.5	82193.4	89242.6	94722.8	96663.5
-32.5°	8205.3	11842.5	17235.9	24776.6	32539.9	43416.7	54023.7	64510.1	74123.6	81285.6	85759.5
-35°	5977.8	8833.8	12221.5	17050.4	22500.0	29045.9	35915.0	44883.2	52936.6	60440.4	66766.9
-37.5°	4120.1	6229.9	8852.5	11677.5	15618.8	19611.4	24451.4	29088.0	32969.6	39407.8	44795.6
-40°	2776.0	4022.8	6032.4	8174.2	10738.4	13282.9	16742.9	19886.4	22972.9	25967.1	28395.9
-42.5°	1755.8	2675.4	3753.5	5389.7	7183.0	9156.6	11335.1	13397.2	15653.9	17716.2	19436.3
-45°	1050.4	1647.4	2350.0	3353.8	4386.4	5888.1	7406.7	8845.5	10403.2	11744.8	12899.5
-47.5°	664.5	908.9	1393.2	1962.6	2633.4	3546.6	4460.9	5425.5	6491.7	7400.5	8176.5
-50°	434.6	562.4	790.5	1033.7	1471.3	1977.7	2480.0	3097.3	3718.0	4274.0	4758.2
-52.5°	317.9	384.7	467.1	583.9	797.1	1017.5	1241.8	1606.3	1937.3	2228.8	2478.3
-55°	279.0	294.9	309.7	366.8	445.6	530.4	636.8	804.5	949.3	1077.2	1186.9
-57.5°	219.9	246.7	267.5	279.9	291.1	301.2	343.2	407.5	466.5	519.2	565.0
-60°	165.0	180.4	202.9	223.2	240.6	255.2	263.1	271.3	279.0	285.8	291.6
-62.5°	127.9	139.7	152.8	165.0	176.3	188.9	201.7	212.1	221.1	228.5	234.4
-65°	104.0	111.6	118.7	125.3	131.6	140.9	149.2	156.0	161.6	165.9	169.1
-67.5°	79.9	86.7	93.1	99.0	104.5	109.4	113.9	117.9	121.4	124.4	126.8
-70°	60.7	64.7	68.4	72.5	77.4	81.8	85.7	89.2	92.3	94.9	97.1
-72.5°	47.4	49.2	51.2	54.2	57.0	59.5	61.8	63.9	65.6	67.1	68.4
-75°	40.0	40.8	42.2	43.5	44.7	45.7	46.7	47.6	48.3	48.9	49.5
-77.5°	36.6	36.2	36.0	36.0	36.2	36.6	37.3	38.0	38.7	39.2	39.6
-80°	28.7	28.6	28.4	28.1	27.8	27.3	27.6	28.0	28.5	28.9	29.3
-82.5°	22.8	22.6	22.3	21.7	21.1	20.3	19.1	18.0	16.9	15.8	14.6
-85°	18.6	18.5	18.4	18.4	18.5	18.7	17.9	17.0	16.2	15.3	14.3
-87.5°	12.9	12.3	11.7	11.0	10.2	9.3	8.4	7.5	6.5	5.5	4.4
-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: P699855 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-1L-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°	6.7	4.5	2.2	0.0	2.2	4.5	6.7	8.8	11.0	13.0	15.0
85°	13.4	12.3	11.2	10.1	11.2	12.3	13.4	14.4	15.5	16.6	17.8
82.5°	20.0	20.1	20.2	20.2	20.2	20.1	20.0	19.9	19.9	19.9	19.9
80°	30.0	30.1	30.3	30.3	30.3	30.1	30.0	29.7	29.3	28.9	28.4
77.5°	40.0	40.2	40.4	40.4	40.4	40.2	40.0	39.6	39.2	38.7	38.0
75°	49.9	50.2	50.3	50.4	50.3	50.2	49.9	49.5	48.9	48.3	47.6
72.5°	59.9	60.2	60.4	60.5	60.4	60.2	59.9	59.4	58.8	58.0	57.1
70°	79.3	80.1	80.5	80.7	80.5	80.1	79.3	78.1	76.7	75.0	72.9
67.5°	90.0	90.4	90.7	90.8	90.7	90.4	90.0	89.3	88.5	87.5	86.4
65°	109.2	110.2	110.8	111.0	110.8	110.2	109.2	107.7	105.9	103.7	101.1
62.5°	138.2	139.9	141.0	141.3	141.0	139.9	138.2	135.8	132.8	129.0	124.7
60°	173.6	177.1	179.8	181.6	179.8	177.1	173.6	169.4	164.6	159.3	153.6
57.5°	243.2	254.7	264.6	272.4	264.6	254.7	243.2	230.5	217.2	203.7	190.3
55°	432.4	471.7	506.4	534.8	506.4	471.7	432.4	390.2	346.7	303.5	262.3
52.5°	710.0	780.8	844.3	898.0	844.3	780.8	710.0	634.2	555.9	477.3	400.6
50°	1070.1	1185.3	1290.7	1382.3	1290.7	1185.3	1070.1	949.1	826.0	704.6	588.2
47.5°	1326.5	1450.7	1567.5	1674.9	1567.5	1450.7	1326.5	1197.2	1064.8	931.5	813.1
45°	1409.6	1514.3	1616.0	1715.3	1616.0	1514.3	1409.6	1301.2	1188.7	1071.5	986.1
42.5°	1407.3	1481.9	1553.0	1624.5	1553.0	1481.9	1407.3	1325.6	1233.4	1127.5	1073.0
40°	1437.5	1483.1	1519.8	1553.9	1519.8	1483.1	1437.5	1377.5	1297.7	1195.9	1153.5
37.5°	1607.7	1648.8	1673.1	1685.0	1673.1	1648.8	1607.7	1545.4	1458.4	1362.8	1311.1
35°	1983.6	2056.3	2101.4	2118.9	2101.4	2056.3	1983.6	1883.6	1756.7	1730.6	1689.3
32.5°	2610.3	2708.3	2751.1	2744.5	2751.1	2708.3	2610.3	2452.8	2233.0	2538.9	2539.1
30°	4323.9	4492.6	4435.6	4207.5	4435.6	4492.6	4323.9	3884.2	3651.6	4317.5	4298.1
27.5°	9231.9	9735.4	9538.4	8788.4	9538.4	9735.4	9231.9	7912.7	7432.1	8240.1	7656.2
25°	16991.1	17284.9	16521.8	14923.0	16521.8	17284.9	16991.1	15565.7	16037.3	15521.1	13682.1
22.5°	27316.8	28035.1	27443.1	25608.3	27443.1	28035.1	27316.8	26399.7	26511.3	25530.5	23265.0
20°	40683.0	43304.8	44516.2	43911.5	44516.2	43304.8	40683.0	38653.2	37581.5	36442.8	33888.4
17.5°	56606.1	61419.4	64953.3	66149.7	64953.3	61419.4	56606.1	52560.6	49268.5	46282.3	44281.2
15°	75621.1	84535.4	92118.9	95995.8	92118.9	84535.4	75621.1	67216.1	61244.0	56256.1	52065.3
12.5°	100131.0	118115.5	136618.9	146314.4	136618.9	118115.5	100131.0	85666.6	72501.8	64520.6	59013.4
10°	143021.7	186389.9	229996.6	243420.2	229996.6	186389.9	143021.7	108121.4	86816.8	71972.5	64210.1
7.5°	219643.3	335318.4	468989.3	519229.1	468989.3	335318.4	219643.3	144429.7	101039.1	80648.1	69491.5
5°	344755.0	608997.5	944305.7	#####	944305.7	608997.5	344755.0	192017.6	120466.7	88935.7	73354.1
2.5°	489987.6	959647.7	#####	#####	#####	959647.7	489987.6	245342.7	139801.8	95295.5	76032.0
0°	569880.6	#####	#####	#####	#####	#####	569880.6	268695.5	149316.2	98740.3	77561.5
-2.5°	515224.0	999773.0	#####	#####	#####	999773.0	515224.0	254134.4	146111.1	99775.0	79892.7
-5°	378253.5	684063.2	#####	#####	#####	684063.2	378253.5	205467.7	132199.6	97649.8	81336.8
-7.5°	242344.5	397555.3	575032.9	654797.7	575032.9	397555.3	242344.5	159553.1	114580.1	93004.1	82065.2
-10°	162323.2	218390.9	277902.5	293597.5	277902.5	218390.9	162323.2	124811.4	103332.1	89220.9	83372.0
-12.5°	121872.2	141460.2	158555.4	165894.0	158555.4	141460.2	121872.2	107675.2	94743.4	89910.5	87366.7
-15°	107167.3	114701.2	119796.5	122885.6	119796.5	114701.2	107167.3	99368.0	95296.9	93009.5	91615.0
-17.5°	103564.8	105783.3	107819.0	109798.9	107819.0	105783.3	103564.8	99870.7	98000.9	96807.6	96143.4
-20°	104817.0	105534.8	106633.0	107962.5	106633.0	105534.8	104817.0	103004.4	101078.0	99942.8	98575.6



REPORT NUMBER: P699855 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-1L-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	105938.3	106607.5	107483.2	108396.4	107483.2	106607.5	105938.3	104888.6	102798.0	100858.5	98979.0
-25°	105197.4	105916.0	106542.8	106973.7	106542.8	105916.0	105197.4	104438.0	102270.4	99867.1	97589.2
-27.5°	102439.7	103164.1	103611.5	103734.8	103611.5	103164.1	102439.7	101486.2	99724.9	96735.0	93658.7
-30°	97987.7	98880.6	99336.0	99355.8	99336.0	98880.6	97987.7	96663.5	94722.8	89242.6	82193.4
-32.5°	89290.5	91822.8	93311.5	93725.6	93311.5	91822.8	89290.5	85759.5	81285.6	74123.6	64510.1
-35°	71698.2	75193.7	77230.2	77803.6	77230.2	75193.7	71698.2	66766.9	60440.4	52936.6	44883.2
-37.5°	49044.1	52107.9	53952.5	54556.4	53952.5	52107.9	49044.1	44795.6	39407.8	32969.6	29088.0
-40°	30265.0	31578.0	32344.6	32580.5	32344.6	31578.0	30265.0	28395.9	25967.1	22972.9	19886.4
-42.5°	20806.5	21821.8	22480.3	22783.1	22480.3	21821.8	20806.5	19436.3	17716.2	15653.9	13397.2
-45°	13854.1	14596.0	15113.8	15397.3	15113.8	14596.0	13854.1	12899.5	11744.8	10403.2	8845.5
-47.5°	8813.0	9303.8	9643.6	9827.6	9643.6	9303.8	8813.0	8176.5	7400.5	6491.7	5425.5
-50°	5163.8	5483.9	5712.1	5842.1	5712.1	5483.9	5163.8	4758.2	4274.0	3718.0	3097.3
-52.5°	2683.1	2840.9	2949.5	3006.8	2949.5	2840.9	2683.1	2478.3	2228.8	1937.3	1606.3
-55°	1277.3	1347.5	1396.2	1422.7	1396.2	1347.5	1277.3	1186.9	1077.2	949.3	804.5
-57.5°	603.2	633.2	654.3	665.9	654.3	633.2	603.2	565.0	519.2	466.5	407.5
-60°	296.3	299.8	302.0	302.7	302.0	299.8	296.3	291.6	285.8	279.0	271.3
-62.5°	238.7	241.5	242.6	242.2	242.6	241.5	238.7	234.4	228.5	221.1	212.1
-65°	171.2	172.2	172.3	171.5	172.3	172.2	171.2	169.1	165.9	161.6	156.0
-67.5°	128.7	130.1	130.9	131.2	130.9	130.1	128.7	126.8	124.4	121.4	117.9
-70°	98.7	99.9	100.7	100.9	100.7	99.9	98.7	97.1	94.9	92.3	89.2
-72.5°	69.4	70.0	70.5	70.6	70.5	70.0	69.4	68.4	67.1	65.6	63.9
-75°	49.9	50.2	50.3	50.4	50.3	50.2	49.9	49.5	48.9	48.3	47.6
-77.5°	40.0	40.2	40.4	40.4	40.4	40.2	40.0	39.6	39.2	38.7	38.0
-80°	29.7	30.0	30.2	30.3	30.2	30.0	29.7	29.3	28.9	28.5	28.0
-82.5°	13.5	12.4	11.2	10.1	11.2	12.4	13.5	14.6	15.8	16.9	18.0
-85°	13.3	12.3	11.2	10.1	11.2	12.3	13.3	14.3	15.3	16.2	17.0
-87.5°	3.3	2.2	1.1	0.0	1.1	2.2	3.3	4.4	5.5	6.5	7.5
-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: P699855 (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°	16.9	18.7	18.3	17.9	17.5	17.0	16.5	16.0	15.5	14.9	14.3
85°	19.0	20.2	21.1	22.0	22.7	23.3	23.8	24.2	24.4	24.5	24.4
82.5°	20.0	20.3	21.4	22.5	23.7	24.8	25.9	27.0	28.2	29.3	30.3
80°	27.8	27.3	27.8	28.1	28.4	28.6	28.7	28.8	28.8	29.4	30.5
77.5°	37.3	36.6	36.2	36.0	36.0	36.2	36.6	36.9	36.6	36.3	35.7
75°	46.7	45.7	44.7	43.5	42.2	40.8	40.0	39.6	39.6	40.0	40.5
72.5°	56.1	55.0	53.7	52.3	50.8	49.2	47.4	45.6	43.7	41.6	40.9
70°	70.6	67.7	64.6	61.6	59.4	57.5	55.5	53.4	51.2	48.8	46.7
67.5°	85.0	83.0	80.2	76.5	72.3	68.4	64.7	61.4	58.7	56.0	53.2
65°	98.1	94.5	91.0	88.2	84.8	80.6	75.6	70.7	66.7	63.1	60.0
62.5°	119.7	113.3	106.8	102.0	97.4	93.2	88.9	83.4	76.9	70.2	66.8
60°	148.0	144.2	138.0	129.3	117.9	104.5	99.4	94.9	90.9	83.8	76.3
57.5°	179.9	176.4	172.6	165.9	156.2	143.3	127.0	107.4	98.1	94.9	89.4
55°	231.2	221.6	214.2	205.5	195.9	184.2	168.8	149.7	129.3	104.3	99.5
52.5°	350.5	320.6	288.7	255.0	238.6	226.0	212.0	193.3	180.8	163.4	127.6
50°	524.5	467.5	409.9	357.3	317.1	275.8	252.0	235.7	229.7	219.4	198.2
47.5°	733.4	649.2	564.4	492.0	425.8	365.6	318.6	277.8	271.4	266.1	252.1
45°	914.6	834.7	745.7	648.6	553.3	475.6	405.5	365.3	318.6	301.0	296.2
42.5°	1032.9	985.1	909.1	808.5	701.4	597.9	523.2	475.9	413.7	351.3	325.8
40°	1115.0	1073.1	1018.2	954.3	850.6	728.3	683.3	614.4	537.9	449.0	368.6
37.5°	1231.7	1146.2	1098.3	1043.9	969.8	928.0	878.3	797.0	688.5	577.1	466.2
35°	1501.6	1340.5	1202.8	1112.5	1069.3	1143.9	1121.0	1012.5	881.9	733.8	582.7
32.5°	2157.5	1869.0	1441.0	1266.3	1328.7	1414.7	1387.8	1277.3	1099.6	923.6	739.1
30°	3719.3	3001.1	2237.8	1892.9	1989.0	1819.1	1717.4	1577.9	1373.7	1132.5	909.9
27.5°	6758.4	5041.3	4011.3	4277.5	3324.9	2731.7	2220.5	1925.9	1676.4	1389.8	1110.4
25°	11889.1	9233.7	8720.9	8434.0	6900.1	4173.9	3083.9	2447.6	2032.1	1674.7	1317.3
22.5°	19411.8	17128.0	15658.9	14040.0	11814.7	8181.1	4665.6	3083.9	2429.9	1992.8	1605.8
20°	30365.5	26732.8	23985.2	21231.7	17922.0	13347.8	7307.2	4377.7	3082.8	2507.1	1961.9
17.5°	41058.3	37380.8	32991.0	29090.9	24888.2	19405.1	12324.8	6289.4	4126.2	3135.0	2367.6
15°	50110.6	46837.6	42443.3	37494.8	32283.8	26040.9	17970.7	8674.9	5536.5	3970.9	2891.1
12.5°	56258.0	54634.9	51404.3	45811.8	39688.9	32828.1	23818.1	13467.1	7499.2	4977.4	3471.3
10°	61195.6	60613.2	57632.2	52251.6	46261.0	39264.2	29705.1	18153.5	9464.1	6039.0	4077.6
7.5°	64739.2	63092.5	61418.1	57569.6	52054.0	45416.5	35457.6	22589.4	11375.4	7115.8	4687.2
5°	66944.3	65076.8	64418.3	61927.6	57137.5	51170.1	40865.6	26612.9	13170.7	8163.5	5274.8
2.5°	68684.4	66787.2	66837.5	65520.8	61610.1	56401.4	45698.0	30050.0	14783.2	9134.5	5813.6
0°	70074.7	68379.6	68934.6	68591.5	65594.8	60983.7	49713.2	32721.7	16143.9	9979.0	6276.0
-2.5°	72936.1	71576.0	72093.6	71679.8	68781.8	63883.1	51746.3	33831.2	16877.1	10310.4	6388.8
-5°	75739.3	74880.1	75272.3	74599.0	71644.9	65888.3	52549.5	33888.3	17216.9	10429.2	6384.9
-7.5°	78613.9	78333.2	78517.5	77429.0	74213.2	66896.1	51973.5	32798.4	17096.4	10301.8	6253.3
-10°	82060.4	81988.0	81867.8	80242.2	76517.8	66827.8	49899.6	30486.6	16457.2	9898.3	5984.1
-12.5°	86417.7	85961.2	85066.9	83080.9	78590.7	65633.4	46243.2	26900.0	15251.3	9194.0	5569.6
-15°	90832.6	89445.7	87353.3	84013.5	76768.1	61799.8	41065.9	22008.6	13442.5	8169.1	5003.6
-17.5°	94252.3	91984.8	88997.6	84345.8	72391.1	54469.7	34763.7	19546.2	11823.2	7100.1	4318.8
-20°	96710.3	93490.1	88736.2	79768.4	65341.6	45909.7	27397.4	16655.7	10125.5	6205.7	3748.8



REPORT NUMBER: P699855 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-1L-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	97057.2	92736.8	85209.9	73111.0	54872.7	36891.3	22357.4	13685.1	8247.4	5147.8	3075.7
-25°	94157.0	88210.0	77141.9	60854.4	43781.3	27444.2	17774.9	11342.0	7076.8	4298.7	2379.1
-27.5°	86420.5	77619.2	63625.6	47852.2	32117.2	21615.9	14007.0	8842.1	5701.1	3458.2	2001.7
-30°	72869.5	60554.9	47979.5	34545.2	24178.3	16041.3	10550.9	7122.6	4502.8	2596.8	1543.5
-32.5°	54023.7	43416.7	32539.9	24776.6	17235.9	11842.5	8205.3	5372.2	3250.5	2029.1	1208.3
-35°	35915.0	29045.9	22500.0	17050.4	12221.5	8833.8	5977.8	3836.8	2423.5	1457.5	880.1
-37.5°	24451.4	19611.4	15618.8	11677.5	8852.5	6229.9	4120.1	2686.2	1650.4	1052.2	663.0
-40°	16742.9	13282.9	10738.4	8174.2	6032.4	4022.8	2776.0	1759.0	1154.7	718.1	497.4
-42.5°	11335.1	9156.6	7183.0	5389.7	3753.5	2675.4	1755.8	1161.4	740.3	520.4	421.6
-45°	7406.7	5888.1	4386.4	3353.8	2350.0	1647.4	1050.4	720.9	507.0	415.5	366.6
-47.5°	4460.9	3546.6	2633.4	1962.6	1393.2	908.9	664.5	458.7	396.9	349.2	350.0
-50°	2480.0	1977.7	1471.3	1033.7	790.5	562.4	434.6	360.4	326.3	323.8	304.4
-52.5°	1241.8	1017.5	797.1	583.9	467.1	384.7	317.9	299.4	290.7	263.7	207.8
-55°	636.8	530.4	445.6	366.8	309.7	294.9	279.0	255.3	222.5	181.0	157.4
-57.5°	343.2	301.2	291.1	279.9	267.5	246.7	219.9	189.8	167.6	147.0	127.0
-60°	263.1	255.2	240.6	223.2	202.9	180.4	165.0	148.8	131.6	120.0	107.6
-62.5°	201.7	188.9	176.3	165.0	152.8	139.7	127.9	119.0	109.6	99.3	88.5
-65°	149.2	140.9	131.6	125.3	118.7	111.6	104.0	95.9	87.4	78.5	69.7
-67.5°	113.9	109.4	104.5	99.0	93.1	86.7	79.9	72.7	66.9	61.6	56.8
-70°	85.7	81.8	77.4	72.5	68.4	64.7	60.7	56.4	51.9	48.8	47.2
-72.5°	61.8	59.5	57.0	54.2	51.2	49.2	47.4	45.6	43.7	41.6	40.9
-75°	46.7	45.7	44.7	43.5	42.2	40.8	40.0	39.6	39.6	40.0	40.5
-77.5°	37.3	36.6	36.2	36.0	36.0	36.2	36.6	36.9	36.6	36.3	35.7
-80°	27.6	27.3	27.8	28.1	28.4	28.6	28.7	28.8	28.8	28.8	28.7
-82.5°	19.1	20.3	21.1	21.7	22.3	22.6	22.8	22.8	22.6	22.1	21.5
-85°	17.9	18.7	18.5	18.4	18.4	18.5	18.6	18.8	19.2	19.6	20.2
-87.5°	8.4	9.3	10.2	11.0	11.7	12.3	12.9	13.4	13.8	14.1	14.3
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699855 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-1L-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°	14.4	14.4	14.4	14.2	13.9	13.5	13.0	12.3	11.6	10.4	9.1
85°	24.5	24.7	25.1	25.5	26.2	27.0	25.9	24.7	23.2	20.7	18.2
82.5°	30.3	29.7	29.1	28.7	28.6	28.7	29.0	29.5	30.3	30.3	27.3
80°	31.2	31.7	31.8	31.6	31.1	30.3	30.0	30.0	30.3	30.3	30.3
77.5°	34.9	34.3	34.1	34.4	34.3	33.7	32.7	31.2	30.3	30.3	30.3
75°	40.4	39.1	38.0	37.4	37.1	37.2	36.4	35.1	33.1	30.6	30.3
72.5°	41.6	41.7	41.3	40.3	39.3	38.9	39.0	39.0	36.8	33.9	31.1
70°	45.1	44.0	43.7	43.1	41.9	40.2	39.8	40.0	40.4	37.2	33.9
67.5°	50.3	48.3	46.9	46.1	45.2	43.5	41.0	40.3	40.7	40.4	36.8
65°	56.8	53.5	50.2	48.7	47.9	47.2	44.8	41.5	41.0	41.0	39.6
62.5°	63.2	59.6	55.8	51.8	49.6	49.0	48.7	45.4	42.1	41.7	41.0
60°	69.6	65.5	61.4	57.1	52.8	50.0	49.9	49.2	45.2	42.5	41.9
57.5°	81.0	72.3	66.9	62.3	57.6	52.8	50.3	50.5	48.2	44.6	42.8
55°	92.9	83.8	74.1	67.4	62.3	57.1	51.8	50.8	50.5	46.9	43.9
52.5°	103.8	95.1	84.8	74.1	66.9	61.4	55.8	51.4	51.2	49.0	45.5
50°	147.4	106.9	95.8	83.8	72.3	65.5	59.6	54.4	51.9	50.6	47.1
47.5°	226.5	157.0	107.9	93.9	81.0	69.6	63.4	57.4	52.9	51.6	48.6
45°	278.5	241.4	149.8	106.1	89.4	76.5	67.4	60.1	55.2	52.6	49.9
42.5°	319.9	298.3	236.1	119.9	100.7	84.7	71.6	63.7	57.4	53.7	51.0
40°	347.0	336.8	311.6	204.8	113.0	93.0	78.7	67.6	59.3	55.0	52.0
37.5°	370.9	365.7	347.0	292.6	142.2	104.7	86.2	71.4	61.5	56.6	53.1
35°	460.5	386.5	381.8	345.0	216.2	116.1	93.6	76.4	64.9	57.9	54.3
32.5°	557.4	428.2	400.6	365.0	284.6	127.4	102.6	82.8	68.2	59.0	55.5
30°	695.5	518.5	408.9	382.8	333.8	181.8	112.4	89.2	71.6	60.0	56.6
27.5°	850.3	602.3	433.2	393.3	348.7	234.8	121.9	95.3	74.9	61.5	57.5
25°	1012.7	721.6	505.8	403.4	361.7	282.5	131.0	101.3	79.3	64.1	58.2
22.5°	1210.3	855.8	576.3	415.0	372.7	324.2	155.0	108.8	84.1	66.6	58.8
20°	1424.6	990.3	644.1	436.6	382.0	333.4	190.4	115.9	88.6	69.0	59.3
17.5°	1666.6	1146.4	746.3	491.6	391.3	340.9	221.2	122.5	92.8	71.2	59.7
15°	1998.0	1328.1	851.7	542.6	401.0	346.9	247.4	128.6	96.6	73.2	60.0
12.5°	2345.6	1509.2	950.7	588.8	410.6	351.3	269.0	134.0	100.1	75.1	60.2
10°	2698.0	1684.6	1041.4	629.7	419.8	354.3	286.1	138.9	103.2	76.7	60.3
7.5°	3042.3	1849.2	1122.0	664.6	428.1	355.8	298.9	143.1	105.9	78.1	60.4
5°	3364.6	1997.2	1190.2	692.8	435.2	356.1	307.5	146.6	108.1	79.3	60.5
2.5°	3650.4	2122.7	1244.1	713.7	440.7	355.2	312.1	149.3	109.8	80.1	60.5
0°	3884.6	2219.8	1281.4	726.5	444.0	353.1	312.8	151.3	111.0	80.7	60.5
-2.5°	3920.1	2221.1	1273.8	720.7	443.5	357.2	319.1	151.9	111.2	80.9	60.9
-5°	3883.2	2186.3	1247.3	706.4	440.8	360.6	321.1	151.7	110.8	80.9	61.2
-7.5°	3768.3	2113.7	1201.7	684.1	436.4	363.6	318.6	150.6	109.9	80.5	61.5
-10°	3570.8	2002.0	1137.0	653.9	430.5	366.6	311.0	148.6	108.5	79.8	61.8
-12.5°	3286.9	1850.3	1053.1	616.3	423.5	369.9	297.9	145.6	106.5	78.7	62.0
-15°	2913.9	1657.9	950.2	571.5	415.7	373.7	278.9	141.7	104.0	77.4	62.1
-17.5°	2449.7	1424.4	828.6	520.0	407.5	378.3	253.7	136.9	100.9	75.7	62.1
-20°	2120.7	1216.1	702.1	462.1	399.2	384.0	222.1	131.0	97.4	73.8	62.1



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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°	1789.4	1046.5	630.9	440.6	396.4	391.0	183.8	124.2	93.3	71.5	61.9
-25°	1413.8	857.9	553.8	429.4	402.8	346.7	157.7	116.4	88.7	68.9	61.6
-27.5°	1148.5	683.2	471.3	419.3	411.4	293.1	148.2	110.6	84.3	66.1	61.2
-30°	928.8	588.9	444.0	415.5	422.3	231.1	137.6	104.4	80.7	64.6	60.7
-32.5°	705.1	489.6	434.4	428.3	373.1	165.7	126.0	97.7	76.9	64.0	59.3
-35°	584.0	442.0	419.1	444.2	289.2	151.8	115.1	90.5	72.7	63.2	57.5
-37.5°	454.7	417.3	421.9	401.3	195.8	136.8	106.6	84.5	68.3	62.2	55.7
-40°	420.4	399.5	421.7	286.3	157.3	120.6	97.7	79.2	66.0	60.9	53.7
-42.5°	382.1	395.6	334.4	174.5	138.3	110.0	88.6	73.6	64.4	58.9	51.6
-45°	372.7	348.3	220.2	151.6	119.8	99.2	82.2	68.3	62.6	56.4	49.9
-47.5°	335.5	235.8	160.2	129.3	107.6	88.9	75.4	65.9	60.4	53.9	48.6
-50°	228.9	164.1	135.5	113.2	94.9	81.0	69.3	63.2	57.4	51.2	47.1
-52.5°	163.1	136.9	116.0	99.0	84.7	72.5	65.8	60.1	54.3	49.0	45.5
-55°	133.6	116.0	100.4	86.6	74.6	66.8	61.7	56.6	51.1	46.9	43.9
-57.5°	113.2	99.0	86.4	74.9	66.9	61.7	57.4	52.9	48.2	44.6	42.8
-60°	95.1	83.7	72.8	65.9	60.7	56.6	53.0	49.2	45.2	42.5	41.9
-62.5°	78.1	69.1	63.4	58.4	54.8	51.8	48.7	45.4	42.1	41.7	41.0
-65°	64.1	59.0	54.6	52.1	49.6	47.2	44.8	41.5	41.0	41.0	39.6
-67.5°	52.5	50.6	48.6	46.5	45.2	43.5	41.0	40.3	40.7	40.4	36.8
-70°	45.7	44.2	43.7	43.1	41.9	40.2	39.8	40.0	40.4	37.2	33.9
-72.5°	41.6	41.7	41.3	40.3	39.3	38.9	39.0	38.9	36.8	33.9	31.1
-75°	40.4	39.1	38.0	37.4	37.1	37.2	35.9	34.7	33.1	30.6	30.3
-77.5°	34.9	34.3	34.1	33.6	32.9	32.1	31.3	30.4	30.3	30.3	30.3
-80°	28.5	28.3	28.1	27.8	27.4	27.1	28.2	29.3	30.3	30.3	30.3
-82.5°	21.7	22.6	23.7	24.8	25.9	27.0	28.1	29.3	30.3	30.3	27.3
-85°	21.4	22.5	23.6	24.7	25.9	27.0	25.9	24.7	23.2	20.7	18.2
-87.5°	14.4	14.4	14.4	14.2	13.9	13.5	13.0	12.3	11.6	10.4	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):

	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°	7.8	6.6	5.3	4.0	2.6	1.3	0.0
85°	15.7	13.1	10.5	7.9	5.3	2.6	0.0
82.5°	23.5	19.6	15.7	11.8	7.9	4.0	0.0
80°	30.3	26.1	20.9	15.7	10.5	5.3	0.0
77.5°	30.3	30.3	26.1	19.6	13.1	6.6	0.0
75°	30.3	30.3	30.3	23.5	15.7	7.8	0.0
72.5°	30.3	30.3	30.3	27.3	18.2	9.1	0.0
70°	30.6	30.3	30.3	30.3	20.7	10.4	0.0
67.5°	33.1	30.3	30.3	30.3	23.2	11.6	0.0
65°	35.5	31.3	30.3	30.3	25.6	12.8	0.0
62.5°	37.8	33.3	30.3	30.3	28.0	14.0	0.0
60°	40.1	35.2	30.3	30.3	30.3	15.1	0.0
57.5°	41.3	37.1	31.7	30.3	30.3	16.3	0.0
55°	42.3	38.9	33.2	30.3	30.3	17.4	0.0
52.5°	43.3	40.6	34.6	30.3	30.3	18.4	0.0
50°	44.4	41.5	36.0	30.3	30.3	19.5	0.0
47.5°	45.6	42.5	37.3	30.5	30.3	20.5	0.0
45°	46.7	43.5	38.6	31.5	30.3	21.4	0.0
42.5°	47.7	44.6	39.8	32.4	30.3	22.3	0.0
40°	48.6	45.6	40.8	33.3	30.3	23.2	0.0
37.5°	49.3	46.7	41.6	34.1	30.3	24.0	0.0
35°	50.0	47.5	42.4	34.9	30.3	24.8	0.0
32.5°	50.7	48.0	43.2	35.6	30.3	25.6	0.0
30°	51.6	48.5	44.0	36.3	30.3	26.2	0.0
27.5°	52.5	48.9	44.7	37.0	30.3	26.9	0.0
25°	53.5	49.3	45.4	37.5	30.3	27.5	0.0
22.5°	54.4	49.6	46.1	38.1	30.3	28.0	0.0
20°	55.3	49.8	46.8	38.6	30.3	28.5	0.0
17.5°	56.2	50.0	47.4	39.0	30.3	28.9	0.0
15°	57.0	50.1	48.0	39.4	30.3	29.3	0.0
12.5°	57.8	50.3	48.6	39.7	30.3	29.6	0.0
10°	58.5	50.3	49.1	39.9	30.3	29.8	0.0
7.5°	59.1	50.4	49.5	40.1	30.3	30.0	0.0
5°	59.7	50.4	49.9	40.3	30.3	30.2	0.0
2.5°	60.1	50.4	50.2	40.4	30.3	30.3	0.0
0°	60.5	50.4	50.4	40.4	30.3	30.3	0.0
-2.5°	60.4	50.4	50.2	40.4	30.3	30.3	0.0
-5°	60.3	50.4	49.9	40.3	30.3	30.2	0.0
-7.5°	60.0	50.4	49.5	40.1	30.3	30.0	0.0
-10°	59.6	50.3	49.1	39.9	30.3	29.8	0.0
-12.5°	59.0	50.3	48.6	39.7	30.3	29.6	0.0
-15°	58.4	50.1	48.0	39.4	30.3	29.3	0.0
-17.5°	57.6	50.0	47.4	39.0	30.3	28.9	0.0
-20°	56.8	49.8	46.8	38.6	30.3	28.5	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	55.8	49.6	46.1	38.1	30.3	28.0	0.0
-25°	54.7	49.3	45.4	37.5	30.3	27.5	0.0
-27.5°	53.5	48.9	44.7	37.0	30.3	26.9	0.0
-30°	52.2	48.5	44.0	36.3	30.3	26.2	0.0
-32.5°	50.8	48.0	43.2	35.6	30.3	25.6	0.0
-35°	50.0	47.5	42.4	34.9	30.3	24.8	0.0
-37.5°	49.3	46.7	41.6	34.1	30.3	24.0	0.0
-40°	48.6	45.6	40.8	33.3	30.3	23.2	0.0
-42.5°	47.7	44.6	39.8	32.4	30.3	22.3	0.0
-45°	46.7	43.5	38.6	31.5	30.3	21.4	0.0
-47.5°	45.6	42.5	37.3	30.5	30.3	20.5	0.0
-50°	44.4	41.5	36.0	30.3	30.3	19.5	0.0
-52.5°	43.3	40.6	34.6	30.3	30.3	18.4	0.0
-55°	42.3	38.9	33.2	30.3	30.3	17.4	0.0
-57.5°	41.3	37.1	31.7	30.3	30.3	16.3	0.0
-60°	40.1	35.2	30.3	30.3	30.3	15.1	0.0
-62.5°	37.8	33.3	30.3	30.3	28.0	14.0	0.0
-65°	35.5	31.3	30.3	30.3	25.6	12.8	0.0
-67.5°	33.1	30.3	30.3	30.3	23.2	11.6	0.0
-70°	30.6	30.3	30.3	30.3	20.7	10.4	0.0
-72.5°	30.3	30.3	30.3	27.3	18.2	9.1	0.0
-75°	30.3	30.3	30.3	23.5	15.7	7.8	0.0
-77.5°	30.3	30.3	26.1	19.6	13.1	6.6	0.0
-80°	30.3	26.1	20.9	15.7	10.5	5.3	0.0
-82.5°	23.5	19.6	15.7	11.8	7.9	4.0	0.0
-85°	15.7	13.1	10.5	7.9	5.3	2.6	0.0
-87.5°	7.8	6.6	5.3	4.0	2.6	1.3	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)