

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: P699864 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200L-40-70-4S-S**

Issue Date: 8/10/2023

Test Information

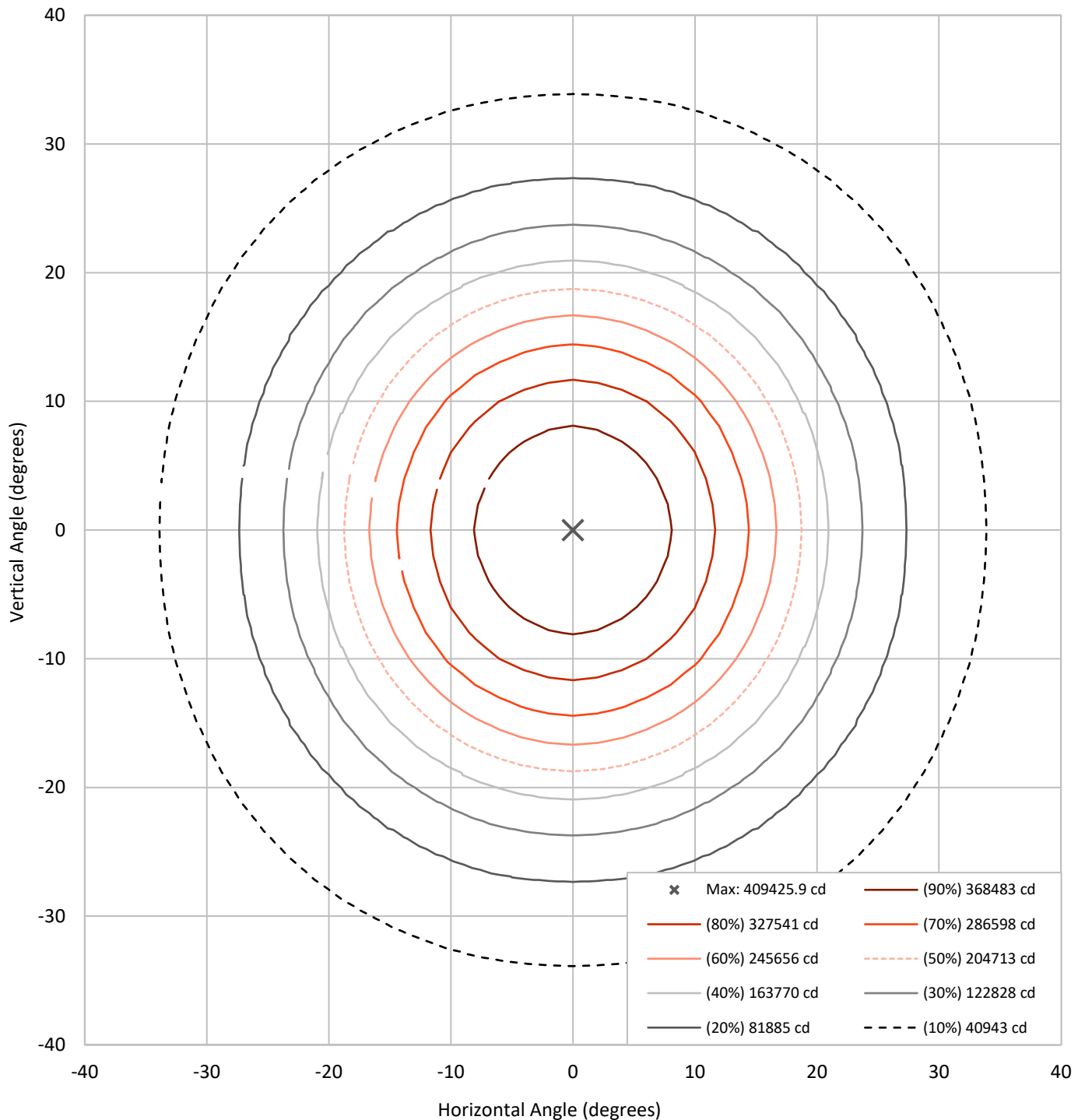
Test Method: LM-79-08
Report Number: P699864 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-12)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200L-40-70-4S-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 4000K, 70 CRI LEDS AND 4S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	195385.8 lumens	Max Intensity:	409425.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	160.9 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	37.5°H x 37.5°V	Field Angle (10%):	67.8°H x 67.8°V
Beam Lumens:	99404.7 lumens	Field Lumens:	171901.8 lumens
Beam Efficiency:	50.9%	Field Efficiency:	88.0%
Input Watts (W):	1214.1		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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Iso-Candela Plot





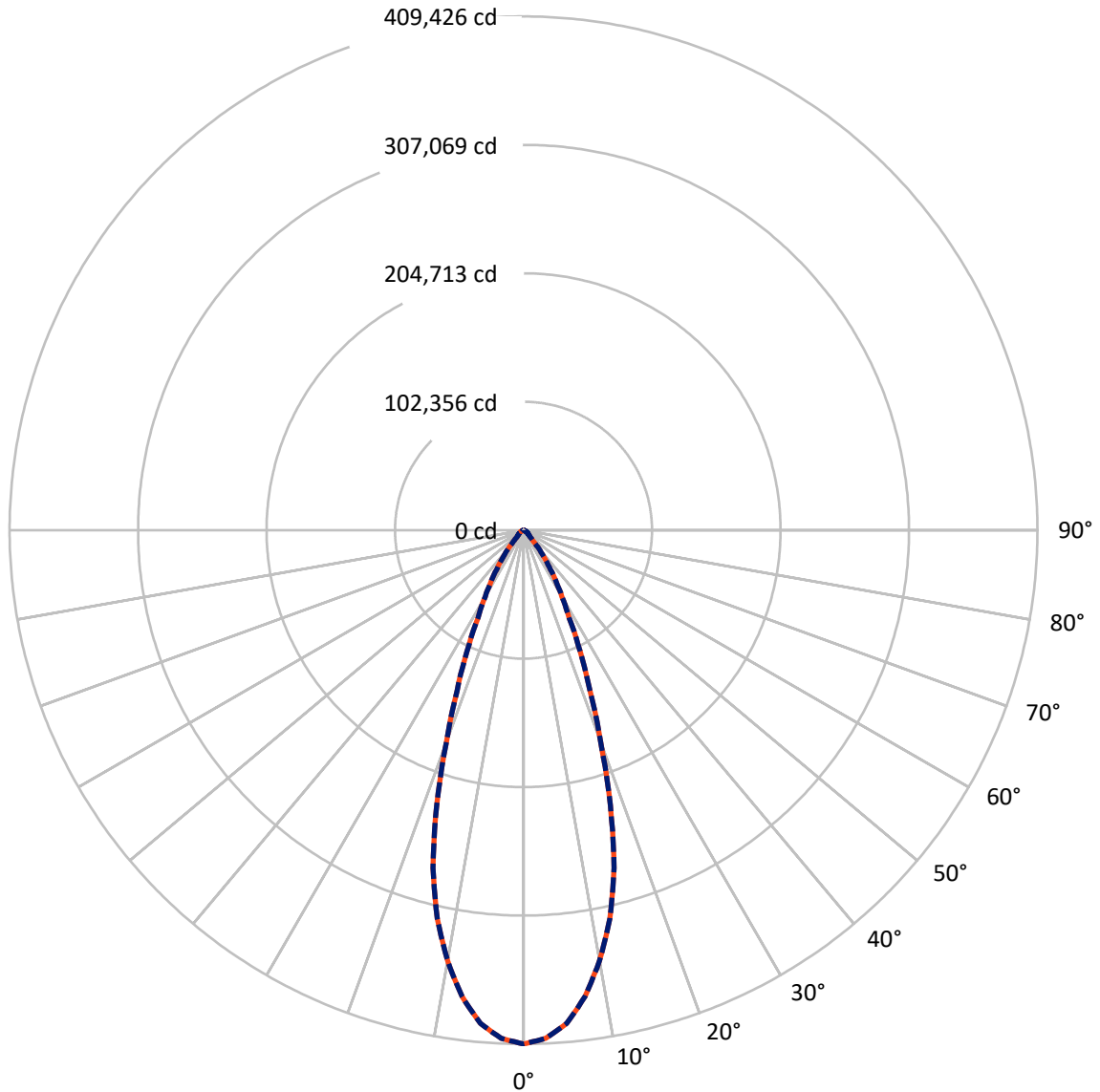
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Lumen Table

90	0.1	1.2	6.3	16.1	21.0	16.1	6.3	1.2	0.1							
80	0.1	1.2	6.3	16.1	21.0	16.1	6.3	1.2	0.1							
70	0.6	1.0	4.2	11.6	23.1	36.3	47.8	54.2	54.2	47.8	36.3	23.1	11.6	4.2	1.0	0.6
60		3.2	13.4	34.1	61.4	87.9	108.4	120.0	120.0	108.4	87.9	61.4	34.1	13.4	3.2	
50	2.2	7.1	27.8	62.7	101.8	145.0	201.7	254.8	254.8	201.7	145.0	101.8	62.7	27.8	7.1	2.2
40		12.3	43.4	88.1	155.1	368.8	764.1	1070.5	1070.5	764.1	368.8	155.1	88.1	43.4	12.3	
30	4.8	17.5	56.2	113.7	335.5	1040.5	2113.2	3151.7	3151.7	2113.2	1040.5	335.5	113.7	56.2	17.5	4.8
20		21.6	65.0	149.2	654.6	1990.2	4806.2	7695.0	7695.0	4806.2	1990.2	654.6	149.2	65.0	21.6	
10	5.9	23.8	69.8	183.8	890.0	2885.6	7477.2	11151.7	11151.7	7477.2	2885.6	890.0	183.8	69.8	23.8	5.9
0		23.8	69.8	183.8	890.0	2885.6	7477.2	11151.7	11151.7	7477.2	2885.6	890.0	183.8	69.8	23.8	
-10	4.8	21.6	65.0	149.2	654.6	1990.2	4806.2	7695.0	7695.0	4806.2	1990.2	654.6	149.2	65.0	21.6	4.8
-20		17.5	56.2	113.7	335.5	1040.5	2113.2	3151.7	3151.7	2113.2	1040.5	335.5	113.7	56.2	17.5	
-30	2.2	12.3	43.4	88.1	155.1	368.8	764.1	1070.5	1070.5	764.1	368.8	155.1	88.1	43.4	12.3	2.2
-40		7.1	27.8	62.7	101.8	145.0	201.7	254.8	254.8	201.7	145.0	101.8	62.7	27.8	7.1	
-50	0.6	3.2	13.4	34.1	61.4	87.9	108.4	120.0	120.0	108.4	87.9	61.4	34.1	13.4	3.2	0.6
-60		1.0	4.2	11.6	23.1	36.3	47.8	54.2	54.2	47.8	36.3	23.1	11.6	4.2	1.0	
-70	0.1	1.2	6.3	16.1	21.0	16.1	6.3	1.2	0.1							
-80		0.1	1.2	6.3	16.1	21.0	16.1	6.3	1.2	0.1						
-90	0.1	1.2	6.3	16.1	21.0	16.1	6.3	1.2	0.1							

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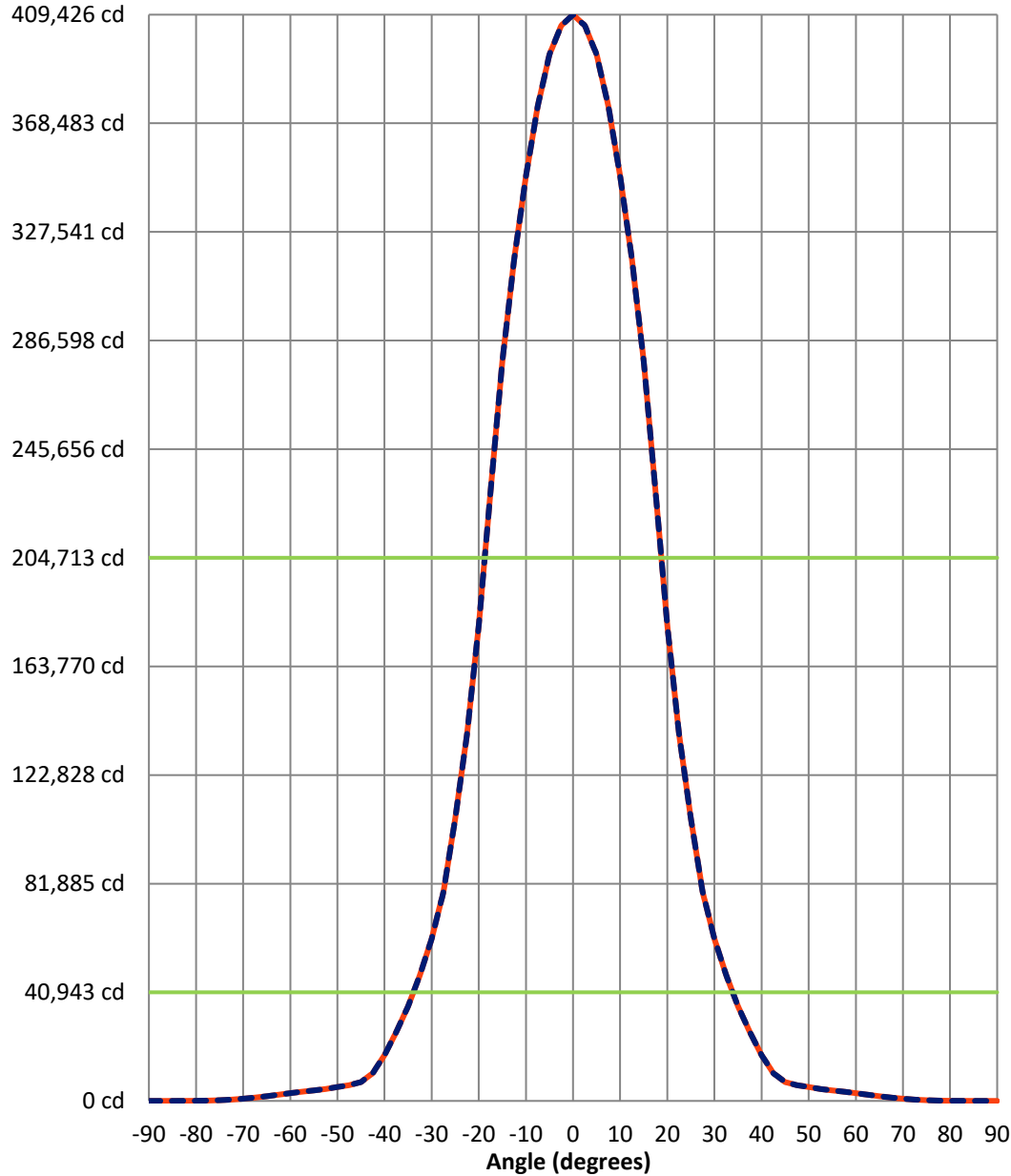
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 37.5°
V Angle: 37.5°
Lumens: 99404.7
Efficiency: 50.9%

Field:
H Angle: 67.8°
V Angle: 67.8°
Lumens: 171901.8
Efficiency: 88.0%

Spill:
Lumens: 23484
Efficiency: 12.0%

— 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	0.1	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.3
85°	0.0	0.3	0.5	0.8	1.0	1.3	1.6	1.8	2.0	2.3	2.5
82.5°	0.0	0.4	0.8	1.2	1.6	1.9	2.3	2.7	3.2	4.2	5.1
80°	0.0	0.5	1.0	1.6	2.1	2.6	3.2	4.6	5.9	7.2	8.5
77.5°	0.0	0.6	1.3	1.9	2.6	3.6	5.3	7.0	8.7	10.3	12.9
75°	0.0	0.8	1.6	2.3	3.2	5.3	7.3	9.4	11.7	16.1	20.4
72.5°	0.0	0.9	1.8	2.7	4.6	7.0	9.4	12.5	17.7	22.8	27.9
70°	0.0	1.0	2.0	3.2	5.9	8.7	11.7	17.7	23.6	29.5	36.8
67.5°	0.0	1.1	2.3	4.2	7.2	10.3	16.1	22.8	29.5	37.8	46.1
65°	0.0	1.3	2.5	5.1	8.5	12.9	20.4	27.9	36.8	46.1	61.4
62.5°	0.0	1.4	2.8	6.1	9.8	16.5	24.7	33.8	44.0	58.0	90.9
60°	0.0	1.5	3.0	7.0	11.0	19.9	28.8	39.9	51.1	84.1	120.0
57.5°	0.0	1.6	3.6	7.9	13.7	23.3	33.9	46.0	70.6	109.7	165.2
55°	0.0	1.7	4.2	8.8	16.3	26.6	38.9	51.9	92.8	139.6	217.4
52.5°	0.0	1.8	4.8	9.7	18.9	30.0	43.8	69.3	114.4	185.2	268.1
50°	0.0	1.9	5.3	10.5	21.4	33.9	48.6	87.6	140.7	229.6	341.1
47.5°	0.0	2.0	5.8	11.5	23.7	37.7	54.7	105.3	178.8	272.4	414.6
45°	0.0	2.1	6.3	13.3	26.0	41.4	69.2	122.3	215.5	335.5	485.4
42.5°	0.0	2.2	6.8	14.9	28.2	44.9	83.2	147.0	250.7	396.7	584.8
40°	0.0	2.3	7.3	16.5	30.6	48.3	96.5	176.4	290.2	455.2	685.0
37.5°	0.0	2.4	7.7	18.0	33.2	51.5	109.2	204.3	339.5	519.2	780.5
35°	0.0	2.5	8.2	19.4	35.6	59.0	121.2	230.7	386.2	600.3	879.9
32.5°	0.0	2.5	8.6	20.7	37.9	68.4	135.5	255.6	430.2	676.8	987.0
30°	0.0	2.6	8.9	22.0	40.0	77.2	155.3	281.8	471.4	748.4	1087.3
27.5°	0.0	2.7	9.3	23.1	41.9	85.3	173.7	315.1	517.3	815.1	1180.7
25°	0.0	2.7	9.6	24.2	43.7	92.8	190.7	345.8	571.5	886.6	1267.6
22.5°	0.0	2.8	9.9	25.1	45.4	99.6	206.2	373.7	621.0	956.8	1361.4
20°	0.0	2.8	10.1	26.0	46.9	105.7	220.1	398.9	665.6	1020.2	1446.1
17.5°	0.0	2.9	10.3	26.8	48.2	111.2	232.5	421.3	705.2	1076.5	1521.5
15°	0.0	2.9	10.5	27.4	49.3	115.9	243.3	440.8	739.8	1125.6	1587.3
12.5°	0.0	2.9	10.7	28.0	50.3	120.0	252.4	457.4	769.2	1167.5	1643.3
10°	0.0	3.0	10.9	28.5	51.1	123.3	260.0	471.0	793.3	1201.8	1689.4
7.5°	0.0	3.0	11.0	28.8	51.7	125.9	265.8	481.7	812.2	1228.7	1725.4
5°	0.0	3.0	11.0	29.1	52.1	127.7	270.0	489.3	825.7	1247.9	1751.1
2.5°	0.0	3.0	11.1	29.2	52.4	128.8	272.6	493.9	833.8	1259.4	1766.6
0°	0.0	3.0	11.1	29.3	52.5	129.2	273.4	495.4	836.5	1263.3	1771.8
-2.5°	0.0	3.0	11.1	29.2	52.4	128.8	272.6	493.9	833.8	1259.4	1766.6
-5°	0.0	3.0	11.0	29.1	52.1	127.7	270.0	489.3	825.7	1247.9	1751.1
-7.5°	0.0	3.0	11.0	28.8	51.7	125.9	265.8	481.7	812.2	1228.7	1725.4
-10°	0.0	3.0	10.9	28.5	51.1	123.3	260.0	471.0	793.3	1201.8	1689.4
-12.5°	0.0	2.9	10.7	28.0	50.3	120.0	252.4	457.4	769.2	1167.5	1643.3
-15°	0.0	2.9	10.5	27.4	49.3	115.9	243.3	440.8	739.8	1125.6	1587.3
-17.5°	0.0	2.9	10.3	26.8	48.2	111.2	232.5	421.3	705.2	1076.5	1521.5
-20°	0.0	2.8	10.1	26.0	46.9	105.7	220.1	398.9	665.6	1020.2	1446.1



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 CATALOG NUMBER: EPH-LS-16-1200L-40-70-4S-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	2.8	9.9	25.1	45.4	99.6	206.2	373.7	621.0	956.8	1361.4
-25°	0.0	2.7	9.6	24.2	43.7	92.8	190.7	345.8	571.5	886.6	1267.6
-27.5°	0.0	2.7	9.3	23.1	41.9	85.3	173.7	315.1	517.3	815.1	1180.7
-30°	0.0	2.6	8.9	22.0	40.0	77.2	155.3	281.8	471.4	748.4	1087.3
-32.5°	0.0	2.5	8.6	20.7	37.9	68.4	135.5	255.6	430.2	676.8	987.0
-35°	0.0	2.5	8.2	19.4	35.6	59.0	121.2	230.7	386.2	600.3	879.9
-37.5°	0.0	2.4	7.7	18.0	33.2	51.5	109.2	204.3	339.5	519.2	780.5
-40°	0.0	2.3	7.3	16.5	30.6	48.3	96.5	176.4	290.2	455.2	685.0
-42.5°	0.0	2.2	6.8	14.9	28.2	44.9	83.2	147.0	250.7	396.7	584.8
-45°	0.0	2.1	6.3	13.3	26.0	41.4	69.2	122.3	215.5	335.5	485.4
-47.5°	0.0	2.0	5.8	11.5	23.7	37.7	54.7	105.3	178.8	272.4	414.6
-50°	0.0	1.9	5.3	10.5	21.4	33.9	48.6	87.6	140.7	229.6	341.1
-52.5°	0.0	1.8	4.8	9.7	18.9	30.0	43.8	69.3	114.4	185.2	268.1
-55°	0.0	1.7	4.2	8.8	16.3	26.6	38.9	51.9	92.8	139.6	217.4
-57.5°	0.0	1.6	3.6	7.9	13.7	23.3	33.9	46.0	70.6	109.7	165.2
-60°	0.0	1.5	3.0	7.0	11.0	19.9	28.8	39.9	51.1	84.1	120.0
-62.5°	0.0	1.4	2.8	6.1	9.8	16.5	24.7	33.8	44.0	58.0	90.9
-65°	0.0	1.3	2.5	5.1	8.5	12.9	20.4	27.9	36.8	46.1	61.4
-67.5°	0.0	1.1	2.3	4.2	7.2	10.3	16.1	22.8	29.5	37.8	46.1
-70°	0.0	1.0	2.0	3.2	5.9	8.7	11.7	17.7	23.6	29.5	36.8
-72.5°	0.0	0.9	1.8	2.7	4.6	7.0	9.4	12.5	17.7	22.8	27.9
-75°	0.0	0.8	1.6	2.3	3.2	5.3	7.3	9.4	11.7	16.1	20.4
-77.5°	0.0	0.6	1.3	1.9	2.6	3.6	5.3	7.0	8.7	10.3	12.9
-80°	0.0	0.5	1.0	1.6	2.1	2.6	3.2	4.6	5.9	7.2	8.5
-82.5°	0.0	0.4	0.8	1.2	1.6	1.9	2.3	2.7	3.2	4.2	5.1
-85°	0.0	0.3	0.5	0.8	1.0	1.3	1.6	1.8	2.0	2.3	2.5
-87.5°	0.0	0.1	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.3
-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-40-70-4S-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°	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4
85°	2.8	3.0	3.6	4.2	4.8	5.3	5.8	6.3	6.8	7.3	7.7
82.5°	6.1	7.0	7.9	8.8	9.7	10.5	11.5	13.3	14.9	16.5	18.0
80°	9.8	11.0	13.7	16.3	18.9	21.4	23.7	26.0	28.2	30.6	33.2
77.5°	16.5	19.9	23.3	26.6	30.0	33.9	37.7	41.4	44.9	48.3	51.5
75°	24.7	28.8	33.9	38.9	43.8	48.6	54.7	69.2	83.2	96.5	109.2
72.5°	33.8	39.9	46.0	51.9	69.3	87.6	105.3	122.3	147.0	176.4	204.3
70°	44.0	51.1	70.6	92.8	114.4	140.7	178.8	215.5	250.7	290.2	339.5
67.5°	58.0	84.1	109.7	139.6	185.2	229.6	272.4	335.5	396.7	455.2	519.2
65°	90.9	120.0	165.2	217.4	268.1	341.1	414.6	485.4	584.8	685.0	780.5
62.5°	123.4	178.1	236.8	305.2	391.1	474.6	587.8	707.8	823.3	958.6	1090.8
60°	178.1	243.3	325.3	421.3	525.5	665.6	801.4	956.8	1115.1	1267.6	1440.4
57.5°	236.8	325.3	431.4	556.8	712.6	871.4	1055.7	1234.1	1433.5	1630.5	1824.5
55°	305.2	421.3	556.8	728.4	911.0	1115.6	1324.2	1553.6	1775.6	2014.6	2243.4
52.5°	391.1	525.5	712.6	911.0	1135.6	1372.3	1626.3	1885.1	2152.3	2411.6	2665.8
50°	474.6	665.6	871.4	1115.6	1372.3	1650.7	1940.2	2235.6	2527.1	2811.4	3074.2
47.5°	587.8	801.4	1055.7	1324.2	1626.3	1940.2	2263.6	2585.3	2899.6	3185.3	3458.4
45°	707.8	956.8	1234.1	1553.6	1885.1	2235.6	2585.3	2929.1	3241.3	3535.8	3793.2
42.5°	823.3	1115.1	1433.5	1775.6	2152.3	2527.1	2899.6	3241.3	3561.0	3844.4	4131.9
40°	958.6	1267.6	1630.5	2014.6	2411.6	2811.4	3185.3	3535.8	3844.4	4160.4	4476.5
37.5°	1090.8	1440.4	1824.5	2243.4	2665.8	3074.2	3458.4	3793.2	4131.9	4476.5	4949.3
35°	1216.3	1604.6	2025.4	2465.1	2908.4	3318.2	3691.8	4047.1	4418.6	4906.7	5396.0
32.5°	1348.6	1759.9	2215.6	2677.9	3125.0	3541.7	3911.9	4303.8	4779.9	5318.0	5796.0
30°	1481.2	1922.1	2396.1	2878.4	3328.0	3735.4	4134.3	4571.3	5153.7	5676.6	6359.6
27.5°	1604.6	2074.6	2568.1	3056.8	3513.4	3917.0	4347.5	4900.1	5480.5	6077.2	6990.2
25°	1718.7	2215.6	2727.3	3219.2	3669.3	4096.8	4569.5	5207.0	5776.9	6630.8	8427.7
22.5°	1829.3	2344.8	2873.2	3368.2	3812.6	4266.0	4832.2	5466.2	6139.1	7188.6	9986.9
20°	1934.9	2465.1	3000.3	3500.2	3942.6	4419.8	5071.3	5698.6	6575.8	8519.0	12390.7
17.5°	2029.0	2572.2	3110.4	3606.8	4067.3	4585.9	5282.1	5907.3	6968.8	9719.1	15020.9
15°	2111.2	2665.8	3206.8	3700.1	4178.3	4759.3	5451.5	6208.2	7671.6	11093.3	17372.1
12.5°	2181.2	2745.6	3288.9	3779.7	4273.1	4907.7	5596.6	6482.7	8513.9	12948.6	19954.7
10°	2238.8	2811.4	3356.6	3845.4	4351.4	5030.3	5716.6	6710.1	9212.5	14490.1	22105.4
7.5°	2283.8	2862.7	3409.6	3896.8	4412.7	5126.3	5810.8	6888.6	9761.9	15704.4	23802.7
5°	2316.0	2899.6	3447.5	3933.7	4456.7	5195.3	5878.5	7017.1	10157.7	16580.2	25028.7
2.5°	2335.4	2921.7	3470.4	3955.9	4483.2	5236.9	5919.3	7094.6	10396.6	17109.2	25769.9
0°	2341.9	2929.1	3478.0	3963.3	4492.0	5250.8	5932.9	7120.5	10476.4	17286.1	26017.9
-2.5°	2335.4	2921.7	3470.4	3955.9	4483.2	5236.9	5919.3	7094.6	10396.6	17109.2	25769.9
-5°	2316.0	2899.6	3447.5	3933.7	4456.7	5195.3	5878.5	7017.1	10157.7	16580.2	25028.7
-7.5°	2283.8	2862.7	3409.6	3896.8	4412.7	5126.3	5810.8	6888.6	9761.9	15704.4	23802.7
-10°	2238.8	2811.4	3356.6	3845.4	4351.4	5030.3	5716.6	6710.1	9212.5	14490.1	22105.4
-12.5°	2181.2	2745.6	3288.9	3779.7	4273.1	4907.7	5596.6	6482.7	8513.9	12948.6	19954.7
-15°	2111.2	2665.8	3206.8	3700.1	4178.3	4759.3	5451.5	6208.2	7671.6	11093.3	17372.1
-17.5°	2029.0	2572.2	3110.4	3606.8	4067.3	4585.9	5282.1	5907.3	6968.8	9719.1	15020.9
-20°	1934.9	2465.1	3000.3	3500.2	3942.6	4419.8	5071.3	5698.6	6575.8	8519.0	12390.7



REPORT NUMBER: P699864 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-4S-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1829.3	2344.8	2873.2	3368.2	3812.6	4266.0	4832.2	5466.2	6139.1	7188.6	9986.9
-25°	1718.7	2215.6	2727.3	3219.2	3669.3	4096.8	4569.5	5207.0	5776.9	6630.8	8427.7
-27.5°	1604.6	2074.6	2568.1	3056.8	3513.4	3917.0	4347.5	4900.1	5480.5	6077.2	6990.2
-30°	1481.2	1922.1	2396.1	2878.4	3328.0	3735.4	4134.3	4571.3	5153.7	5676.6	6359.6
-32.5°	1348.6	1759.9	2215.6	2677.9	3125.0	3541.7	3911.9	4303.8	4779.9	5318.0	5796.0
-35°	1216.3	1604.6	2025.4	2465.1	2908.4	3318.2	3691.8	4047.1	4418.6	4906.7	5396.0
-37.5°	1090.8	1440.4	1824.5	2243.4	2665.8	3074.2	3458.4	3793.2	4131.9	4476.5	4949.3
-40°	958.6	1267.6	1630.5	2014.6	2411.6	2811.4	3185.3	3535.8	3844.4	4160.4	4476.5
-42.5°	823.3	1115.1	1433.5	1775.6	2152.3	2527.1	2899.6	3241.3	3561.0	3844.4	4131.9
-45°	707.8	956.8	1234.1	1553.6	1885.1	2235.6	2585.3	2929.1	3241.3	3535.8	3793.2
-47.5°	587.8	801.4	1055.7	1324.2	1626.3	1940.2	2263.6	2585.3	2899.6	3185.3	3458.4
-50°	474.6	665.6	871.4	1115.6	1372.3	1650.7	1940.2	2235.6	2527.1	2811.4	3074.2
-52.5°	391.1	525.5	712.6	911.0	1135.6	1372.3	1626.3	1885.1	2152.3	2411.6	2665.8
-55°	305.2	421.3	556.8	728.4	911.0	1115.6	1324.2	1553.6	1775.6	2014.6	2243.4
-57.5°	236.8	325.3	431.4	556.8	712.6	871.4	1055.7	1234.1	1433.5	1630.5	1824.5
-60°	178.1	243.3	325.3	421.3	525.5	665.6	801.4	956.8	1115.1	1267.6	1440.4
-62.5°	123.4	178.1	236.8	305.2	391.1	474.6	587.8	707.8	823.3	958.6	1090.8
-65°	90.9	120.0	165.2	217.4	268.1	341.1	414.6	485.4	584.8	685.0	780.5
-67.5°	58.0	84.1	109.7	139.6	185.2	229.6	272.4	335.5	396.7	455.2	519.2
-70°	44.0	51.1	70.6	92.8	114.4	140.7	178.8	215.5	250.7	290.2	339.5
-72.5°	33.8	39.9	46.0	51.9	69.3	87.6	105.3	122.3	147.0	176.4	204.3
-75°	24.7	28.8	33.9	38.9	43.8	48.6	54.7	69.2	83.2	96.5	109.2
-77.5°	16.5	19.9	23.3	26.6	30.0	33.9	37.7	41.4	44.9	48.3	51.5
-80°	9.8	11.0	13.7	16.3	18.9	21.4	23.7	26.0	28.2	30.6	33.2
-82.5°	6.1	7.0	7.9	8.8	9.7	10.5	11.5	13.3	14.9	16.5	18.0
-85°	2.8	3.0	3.6	4.2	4.8	5.3	5.8	6.3	6.8	7.3	7.7
-87.5°	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4
-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: P699864 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-4S-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°	2.5	2.5	2.6	2.7	2.7	2.8	2.8	2.9	2.9	2.9	3.0
85°	8.2	8.6	8.9	9.3	9.6	9.9	10.1	10.3	10.5	10.7	10.9
82.5°	19.4	20.7	22.0	23.1	24.2	25.1	26.0	26.8	27.4	28.0	28.5
80°	35.6	37.9	40.0	41.9	43.7	45.4	46.9	48.2	49.3	50.3	51.1
77.5°	59.0	68.4	77.2	85.3	92.8	99.6	105.7	111.2	115.9	120.0	123.3
75°	121.2	135.5	155.3	173.7	190.7	206.2	220.1	232.5	243.3	252.4	260.0
72.5°	230.7	255.6	281.8	315.1	345.8	373.7	398.9	421.3	440.8	457.4	471.0
70°	386.2	430.2	471.4	517.3	571.5	621.0	665.6	705.2	739.8	769.2	793.3
67.5°	600.3	676.8	748.4	815.1	886.6	956.8	1020.2	1076.5	1125.6	1167.5	1201.8
65°	879.9	987.0	1087.3	1180.7	1267.6	1361.4	1446.1	1521.5	1587.3	1643.3	1689.4
62.5°	1216.3	1348.6	1481.2	1604.6	1718.7	1829.3	1934.9	2029.0	2111.2	2181.2	2238.8
60°	1604.6	1759.9	1922.1	2074.6	2215.6	2344.8	2465.1	2572.2	2665.8	2745.6	2811.4
57.5°	2025.4	2215.6	2396.1	2568.1	2727.3	2873.2	3000.3	3110.4	3206.8	3288.9	3356.6
55°	2465.1	2677.9	2878.4	3056.8	3219.2	3368.2	3500.2	3606.8	3700.1	3779.7	3845.4
52.5°	2908.4	3125.0	3328.0	3513.4	3669.3	3812.6	3942.6	4067.3	4178.3	4273.1	4351.4
50°	3318.2	3541.7	3735.4	3917.0	4096.8	4266.0	4419.8	4585.9	4759.3	4907.7	5030.3
47.5°	3691.8	3911.9	4134.3	4347.5	4569.5	4832.2	5071.3	5282.1	5451.5	5596.6	5716.6
45°	4047.1	4303.8	4571.3	4900.1	5207.0	5466.2	5698.6	5907.3	6208.2	6482.7	6710.1
42.5°	4418.6	4779.9	5153.7	5480.5	5776.9	6139.1	6575.8	6968.8	7671.6	8513.9	9212.5
40°	4906.7	5318.0	5676.6	6077.2	6630.8	7188.6	8519.0	9719.1	11093.3	12948.6	14490.1
37.5°	5396.0	5796.0	6359.6	6990.2	8427.7	9986.9	12390.7	15020.9	17372.1	19954.7	22105.4
35°	5836.1	6502.3	7371.0	9270.7	11665.6	15059.9	18444.1	22085.7	25324.8	28357.0	30951.0
32.5°	6502.3	7579.0	9697.6	12998.3	16880.7	21430.8	25747.1	30071.9	33958.7	37688.7	41121.7
30°	7371.0	9697.6	13446.5	17950.4	23259.0	28493.0	33632.0	38897.6	44011.4	48650.6	53028.4
27.5°	9270.7	12998.3	17950.4	23874.7	29903.5	35846.1	42546.2	48921.0	55396.5	61076.4	67278.8
25°	11665.6	16880.7	23259.0	29903.5	36740.8	44405.8	52298.3	60060.8	68860.9	76896.8	86482.5
22.5°	15059.9	21430.8	28493.0	35846.1	44405.8	53440.2	62843.0	73693.5	86286.1	100030.8	112598.4
20°	18444.1	25747.1	33632.0	42546.2	52298.3	62843.0	75332.5	91667.9	108809.9	126173.4	142034.0
17.5°	22085.7	30071.9	38897.6	48921.0	60060.8	73693.5	91667.9	112128.7	133211.3	156455.6	178053.1
15°	25324.8	33958.7	44011.4	55396.5	68860.9	86286.1	108809.9	133211.3	161402.2	190771.5	220436.2
12.5°	28357.0	37688.7	48650.6	61076.4	76896.8	100030.8	126173.4	156455.6	190771.5	227641.2	259962.4
10°	30951.0	41121.7	53028.4	67278.8	86482.5	112598.4	142034.0	178053.1	220436.2	259962.4	293131.3
7.5°	33002.7	43844.6	56512.6	72241.8	95046.2	123543.6	157861.5	199657.9	244823.4	286018.5	317442.1
5°	34487.4	45819.3	59046.3	75863.5	101323.3	131612.7	169620.4	216097.8	263183.7	303250.1	334720.5
2.5°	35386.2	47016.5	60585.4	78068.9	105157.8	136563.1	176876.4	226325.5	274743.9	313687.1	344936.6
0°	35687.1	47417.7	61101.7	78809.6	106447.9	138232.3	179330.7	229800.6	278698.5	317119.0	348472.5
-2.5°	35386.2	47016.5	60585.4	78068.9	105157.8	136563.1	176876.4	226325.5	274743.9	313687.1	344936.6
-5°	34487.4	45819.3	59046.3	75863.5	101323.3	131612.7	169620.4	216097.8	263183.7	303250.1	334720.5
-7.5°	33002.7	43844.6	56512.6	72241.8	95046.2	123543.6	157861.5	199657.9	244823.4	286018.5	317442.1
-10°	30951.0	41121.7	53028.4	67278.8	86482.5	112598.4	142034.0	178053.1	220436.2	259962.4	293131.3
-12.5°	28357.0	37688.7	48650.6	61076.4	76896.8	100030.8	126173.4	156455.6	190771.5	227641.2	259962.4
-15°	25324.8	33958.7	44011.4	55396.5	68860.9	86286.1	108809.9	133211.3	161402.2	190771.5	220436.2
-17.5°	22085.7	30071.9	38897.6	48921.0	60060.8	73693.5	91667.9	112128.7	133211.3	156455.6	178053.1
-20°	18444.1	25747.1	33632.0	42546.2	52298.3	62843.0	75332.5	91667.9	108809.9	126173.4	142034.0



REPORT NUMBER: P699864 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-4S-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	15059.9	21430.8	28493.0	35846.1	44405.8	53440.2	62843.0	73693.5	86286.1	100030.8	112598.4
-25°	11665.6	16880.7	23259.0	29903.5	36740.8	44405.8	52298.3	60060.8	68860.9	76896.8	86482.5
-27.5°	9270.7	12998.3	17950.4	23874.7	29903.5	35846.1	42546.2	48921.0	55396.5	61076.4	67278.8
-30°	7371.0	9697.6	13446.5	17950.4	23259.0	28493.0	33632.0	38897.6	44011.4	48650.6	53028.4
-32.5°	6502.3	7579.0	9697.6	12998.3	16880.7	21430.8	25747.1	30071.9	33958.7	37688.7	41121.7
-35°	5836.1	6502.3	7371.0	9270.7	11665.6	15059.9	18444.1	22085.7	25324.8	28357.0	30951.0
-37.5°	5396.0	5796.0	6359.6	6990.2	8427.7	9986.9	12390.7	15020.9	17372.1	19954.7	22105.4
-40°	4906.7	5318.0	5676.6	6077.2	6630.8	7188.6	8519.0	9719.1	11093.3	12948.6	14490.1
-42.5°	4418.6	4779.9	5153.7	5480.5	5776.9	6139.1	6575.8	6968.8	7671.6	8513.9	9212.5
-45°	4047.1	4303.8	4571.3	4900.1	5207.0	5466.2	5698.6	5907.3	6208.2	6482.7	6710.1
-47.5°	3691.8	3911.9	4134.3	4347.5	4569.5	4832.2	5071.3	5282.1	5451.5	5596.6	5716.6
-50°	3318.2	3541.7	3735.4	3917.0	4096.8	4266.0	4419.8	4585.9	4759.3	4907.7	5030.3
-52.5°	2908.4	3125.0	3328.0	3513.4	3669.3	3812.6	3942.6	4067.3	4178.3	4273.1	4351.4
-55°	2465.1	2677.9	2878.4	3056.8	3219.2	3368.2	3500.2	3606.8	3700.1	3779.7	3845.4
-57.5°	2025.4	2215.6	2396.1	2568.1	2727.3	2873.2	3000.3	3110.4	3206.8	3288.9	3356.6
-60°	1604.6	1759.9	1922.1	2074.6	2215.6	2344.8	2465.1	2572.2	2665.8	2745.6	2811.4
-62.5°	1216.3	1348.6	1481.2	1604.6	1718.7	1829.3	1934.9	2029.0	2111.2	2181.2	2238.8
-65°	879.9	987.0	1087.3	1180.7	1267.6	1361.4	1446.1	1521.5	1587.3	1643.3	1689.4
-67.5°	600.3	676.8	748.4	815.1	886.6	956.8	1020.2	1076.5	1125.6	1167.5	1201.8
-70°	386.2	430.2	471.4	517.3	571.5	621.0	665.6	705.2	739.8	769.2	793.3
-72.5°	230.7	255.6	281.8	315.1	345.8	373.7	398.9	421.3	440.8	457.4	471.0
-75°	121.2	135.5	155.3	173.7	190.7	206.2	220.1	232.5	243.3	252.4	260.0
-77.5°	59.0	68.4	77.2	85.3	92.8	99.6	105.7	111.2	115.9	120.0	123.3
-80°	35.6	37.9	40.0	41.9	43.7	45.4	46.9	48.2	49.3	50.3	51.1
-82.5°	19.4	20.7	22.0	23.1	24.2	25.1	26.0	26.8	27.4	28.0	28.5
-85°	8.2	8.6	8.9	9.3	9.6	9.9	10.1	10.3	10.5	10.7	10.9
-87.5°	2.5	2.5	2.6	2.7	2.7	2.8	2.8	2.9	2.9	2.9	3.0
-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: P699864 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-4S-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°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.9
85°	11.0	11.0	11.1	11.1	11.1	11.0	11.0	10.9	10.7	10.5	10.3
82.5°	28.8	29.1	29.2	29.3	29.2	29.1	28.8	28.5	28.0	27.4	26.8
80°	51.7	52.1	52.4	52.5	52.4	52.1	51.7	51.1	50.3	49.3	48.2
77.5°	125.9	127.7	128.8	129.2	128.8	127.7	125.9	123.3	120.0	115.9	111.2
75°	265.8	270.0	272.6	273.4	272.6	270.0	265.8	260.0	252.4	243.3	232.5
72.5°	481.7	489.3	493.9	495.4	493.9	489.3	481.7	471.0	457.4	440.8	421.3
70°	812.2	825.7	833.8	836.5	833.8	825.7	812.2	793.3	769.2	739.8	705.2
67.5°	1228.7	1247.9	1259.4	1263.3	1259.4	1247.9	1228.7	1201.8	1167.5	1125.6	1076.5
65°	1725.4	1751.1	1766.6	1771.8	1766.6	1751.1	1725.4	1689.4	1643.3	1587.3	1521.5
62.5°	2283.8	2316.0	2335.4	2341.9	2335.4	2316.0	2283.8	2238.8	2181.2	2111.2	2029.0
60°	2862.7	2899.6	2921.7	2929.1	2921.7	2899.6	2862.7	2811.4	2745.6	2665.8	2572.2
57.5°	3409.6	3447.5	3470.4	3478.0	3470.4	3447.5	3409.6	3356.6	3288.9	3206.8	3110.4
55°	3896.8	3933.7	3955.9	3963.3	3955.9	3933.7	3896.8	3845.4	3779.7	3700.1	3606.8
52.5°	4412.7	4456.7	4483.2	4492.0	4483.2	4456.7	4412.7	4351.4	4273.1	4178.3	4067.3
50°	5126.3	5195.3	5236.9	5250.8	5236.9	5195.3	5126.3	5030.3	4907.7	4759.3	4585.9
47.5°	5810.8	5878.5	5919.3	5932.9	5919.3	5878.5	5810.8	5716.6	5596.6	5451.5	5282.1
45°	6888.6	7017.1	7094.6	7120.5	7094.6	7017.1	6888.6	6710.1	6482.7	6208.2	5907.3
42.5°	9761.9	10157.7	10396.6	10476.4	10396.6	10157.7	9761.9	9212.5	8513.9	7671.6	6968.8
40°	15704.4	16580.2	17109.2	17286.1	17109.2	16580.2	15704.4	14490.1	12948.6	11093.3	9719.1
37.5°	23802.7	25028.7	25769.9	26017.9	25769.9	25028.7	23802.7	22105.4	19954.7	17372.1	15020.9
35°	33002.7	34487.4	35386.2	35687.1	35386.2	34487.4	33002.7	30951.0	28357.0	25324.8	22085.7
32.5°	43844.6	45819.3	47016.5	47417.7	47016.5	45819.3	43844.6	41121.7	37688.7	33958.7	30071.9
30°	56512.6	59046.3	60585.4	61101.7	60585.4	59046.3	56512.6	53028.4	48650.6	44011.4	38897.6
27.5°	72241.8	75863.5	78068.9	78809.6	78068.9	75863.5	72241.8	67278.8	61076.4	55396.5	48921.0
25°	95046.2	101323.3	105157.8	106447.9	105157.8	101323.3	95046.2	86482.5	76896.8	68860.9	60060.8
22.5°	123543.6	131612.7	136563.1	138232.3	136563.1	131612.7	123543.6	112598.4	100030.8	86286.1	73693.5
20°	157861.5	169620.4	176876.4	179330.7	176876.4	169620.4	157861.5	142034.0	126173.4	108809.9	91667.9
17.5°	199657.9	216097.8	226325.5	229800.6	226325.5	216097.8	199657.9	178053.1	156455.6	133211.3	112128.7
15°	244823.4	263183.7	274743.9	278698.5	274743.9	263183.7	244823.4	220436.2	190771.5	161402.2	133211.3
12.5°	286018.5	303250.1	313687.1	317119.0	313687.1	303250.1	286018.5	259962.4	227641.2	190771.5	156455.6
10°	317442.1	334720.5	344936.6	348472.5	344936.6	334720.5	317442.1	293131.3	259962.4	220436.2	178053.1
7.5°	341608.9	359660.9	371109.5	374866.3	371109.5	359660.9	341608.9	317442.1	286018.5	244823.4	199657.9
5°	359660.9	378902.4	390440.5	394380.8	390440.5	378902.4	359660.9	334720.5	303250.1	263183.7	216097.8
2.5°	371109.5	390440.5	401629.2	405284.0	401629.2	390440.5	371109.5	344936.6	313687.1	274743.9	226325.5
0°	374866.3	394380.8	405284.0	409425.9	405284.0	394380.8	374866.3	348472.5	317119.0	278698.5	229800.6
-2.5°	371109.5	390440.5	401629.2	405284.0	401629.2	390440.5	371109.5	344936.6	313687.1	274743.9	226325.5
-5°	359660.9	378902.4	390440.5	394380.8	390440.5	378902.4	359660.9	334720.5	303250.1	263183.7	216097.8
-7.5°	341608.9	359660.9	371109.5	374866.3	371109.5	359660.9	341608.9	317442.1	286018.5	244823.4	199657.9
-10°	317442.1	334720.5	344936.6	348472.5	344936.6	334720.5	317442.1	293131.3	259962.4	220436.2	178053.1
-12.5°	286018.5	303250.1	313687.1	317119.0	313687.1	303250.1	286018.5	259962.4	227641.2	190771.5	156455.6
-15°	244823.4	263183.7	274743.9	278698.5	274743.9	263183.7	244823.4	220436.2	190771.5	161402.2	133211.3
-17.5°	199657.9	216097.8	226325.5	229800.6	226325.5	216097.8	199657.9	178053.1	156455.6	133211.3	112128.7
-20°	157861.5	169620.4	176876.4	179330.7	176876.4	169620.4	157861.5	142034.0	126173.4	108809.9	91667.9



REPORT NUMBER: P699864 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-4S-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	123543.6	131612.7	136563.1	138232.3	136563.1	131612.7	123543.6	112598.4	100030.8	86286.1	73693.5
-25°	95046.2	101323.3	105157.8	106447.9	105157.8	101323.3	95046.2	86482.5	76896.8	68860.9	60060.8
-27.5°	72241.8	75863.5	78068.9	78809.6	78068.9	75863.5	72241.8	67278.8	61076.4	55396.5	48921.0
-30°	56512.6	59046.3	60585.4	61101.7	60585.4	59046.3	56512.6	53028.4	48650.6	44011.4	38897.6
-32.5°	43844.6	45819.3	47016.5	47417.7	47016.5	45819.3	43844.6	41121.7	37688.7	33958.7	30071.9
-35°	33002.7	34487.4	35386.2	35687.1	35386.2	34487.4	33002.7	30951.0	28357.0	25324.8	22085.7
-37.5°	23802.7	25028.7	25769.9	26017.9	25769.9	25028.7	23802.7	22105.4	19954.7	17372.1	15020.9
-40°	15704.4	16580.2	17109.2	17286.1	17109.2	16580.2	15704.4	14490.1	12948.6	11093.3	9719.1
-42.5°	9761.9	10157.7	10396.6	10476.4	10396.6	10157.7	9761.9	9212.5	8513.9	7671.6	6968.8
-45°	6888.6	7017.1	7094.6	7120.5	7094.6	7017.1	6888.6	6710.1	6482.7	6208.2	5907.3
-47.5°	5810.8	5878.5	5919.3	5932.9	5919.3	5878.5	5810.8	5716.6	5596.6	5451.5	5282.1
-50°	5126.3	5195.3	5236.9	5250.8	5236.9	5195.3	5126.3	5030.3	4907.7	4759.3	4585.9
-52.5°	4412.7	4456.7	4483.2	4492.0	4483.2	4456.7	4412.7	4351.4	4273.1	4178.3	4067.3
-55°	3896.8	3933.7	3955.9	3963.3	3955.9	3933.7	3896.8	3845.4	3779.7	3700.1	3606.8
-57.5°	3409.6	3447.5	3470.4	3478.0	3470.4	3447.5	3409.6	3356.6	3288.9	3206.8	3110.4
-60°	2862.7	2899.6	2921.7	2929.1	2921.7	2899.6	2862.7	2811.4	2745.6	2665.8	2572.2
-62.5°	2283.8	2316.0	2335.4	2341.9	2335.4	2316.0	2283.8	2238.8	2181.2	2111.2	2029.0
-65°	1725.4	1751.1	1766.6	1771.8	1766.6	1751.1	1725.4	1689.4	1643.3	1587.3	1521.5
-67.5°	1228.7	1247.9	1259.4	1263.3	1259.4	1247.9	1228.7	1201.8	1167.5	1125.6	1076.5
-70°	812.2	825.7	833.8	836.5	833.8	825.7	812.2	793.3	769.2	739.8	705.2
-72.5°	481.7	489.3	493.9	495.4	493.9	489.3	481.7	471.0	457.4	440.8	421.3
-75°	265.8	270.0	272.6	273.4	272.6	270.0	265.8	260.0	252.4	243.3	232.5
-77.5°	125.9	127.7	128.8	129.2	128.8	127.7	125.9	123.3	120.0	115.9	111.2
-80°	51.7	52.1	52.4	52.5	52.4	52.1	51.7	51.1	50.3	49.3	48.2
-82.5°	28.8	29.1	29.2	29.3	29.2	29.1	28.8	28.5	28.0	27.4	26.8
-85°	11.0	11.0	11.1	11.1	11.1	11.0	11.0	10.9	10.7	10.5	10.3
-87.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699864 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-4S-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°	2.8	2.8	2.7	2.7	2.6	2.5	2.5	2.4	2.3	2.2	2.1
85°	10.1	9.9	9.6	9.3	8.9	8.6	8.2	7.7	7.3	6.8	6.3
82.5°	26.0	25.1	24.2	23.1	22.0	20.7	19.4	18.0	16.5	14.9	13.3
80°	46.9	45.4	43.7	41.9	40.0	37.9	35.6	33.2	30.6	28.2	26.0
77.5°	105.7	99.6	92.8	85.3	77.2	68.4	59.0	51.5	48.3	44.9	41.4
75°	220.1	206.2	190.7	173.7	155.3	135.5	121.2	109.2	96.5	83.2	69.2
72.5°	398.9	373.7	345.8	315.1	281.8	255.6	230.7	204.3	176.4	147.0	122.3
70°	665.6	621.0	571.5	517.3	471.4	430.2	386.2	339.5	290.2	250.7	215.5
67.5°	1020.2	956.8	886.6	815.1	748.4	676.8	600.3	519.2	455.2	396.7	335.5
65°	1446.1	1361.4	1267.6	1180.7	1087.3	987.0	879.9	780.5	685.0	584.8	485.4
62.5°	1934.9	1829.3	1718.7	1604.6	1481.2	1348.6	1216.3	1090.8	958.6	823.3	707.8
60°	2465.1	2344.8	2215.6	2074.6	1922.1	1759.9	1604.6	1440.4	1267.6	1115.1	956.8
57.5°	3000.3	2873.2	2727.3	2568.1	2396.1	2215.6	2025.4	1824.5	1630.5	1433.5	1234.1
55°	3500.2	3368.2	3219.2	3056.8	2878.4	2677.9	2465.1	2243.4	2014.6	1775.6	1553.6
52.5°	3942.6	3812.6	3669.3	3513.4	3328.0	3125.0	2908.4	2665.8	2411.6	2152.3	1885.1
50°	4419.8	4266.0	4096.8	3917.0	3735.4	3541.7	3318.2	3074.2	2811.4	2527.1	2235.6
47.5°	5071.3	4832.2	4569.5	4347.5	4134.3	3911.9	3691.8	3458.4	3185.3	2899.6	2585.3
45°	5698.6	5466.2	5207.0	4900.1	4571.3	4303.8	4047.1	3793.2	3535.8	3241.3	2929.1
42.5°	6575.8	6139.1	5776.9	5480.5	5153.7	4779.9	4418.6	4131.9	3844.4	3561.0	3241.3
40°	8519.0	7188.6	6630.8	6077.2	5676.6	5318.0	4906.7	4476.5	4160.4	3844.4	3535.8
37.5°	12390.7	9986.9	8427.7	6990.2	6359.6	5796.0	5396.0	4949.3	4476.5	4131.9	3793.2
35°	18444.1	15059.9	11665.6	9270.7	7371.0	6502.3	5836.1	5396.0	4906.7	4418.6	4047.1
32.5°	25747.1	21430.8	16880.7	12998.3	9697.6	7579.0	6502.3	5796.0	5318.0	4779.9	4303.8
30°	33632.0	28493.0	23259.0	17950.4	13446.5	9697.6	7371.0	6359.6	5676.6	5153.7	4571.3
27.5°	42546.2	35846.1	29903.5	23874.7	17950.4	12998.3	9270.7	6990.2	6077.2	5480.5	4900.1
25°	52298.3	44405.8	36740.8	29903.5	23259.0	16880.7	11665.6	8427.7	6630.8	5776.9	5207.0
22.5°	62843.0	53440.2	44405.8	35846.1	28493.0	21430.8	15059.9	9986.9	7188.6	6139.1	5466.2
20°	75332.5	62843.0	52298.3	42546.2	33632.0	25747.1	18444.1	12390.7	8519.0	6575.8	5698.6
17.5°	91667.9	73693.5	60060.8	48921.0	38897.6	30071.9	22085.7	15020.9	9719.1	6968.8	5907.3
15°	108809.9	86286.1	68860.9	55396.5	44011.4	33958.7	25324.8	17372.1	11093.3	7671.6	6208.2
12.5°	126173.4	100030.8	76896.8	61076.4	48650.6	37688.7	28357.0	19954.7	12948.6	8513.9	6482.7
10°	142034.0	112598.4	86482.5	67278.8	53028.4	41121.7	30951.0	22105.4	14490.1	9212.5	6710.1
7.5°	157861.5	123543.6	95046.2	72241.8	56512.6	43844.6	33002.7	23802.7	15704.4	9761.9	6888.6
5°	169620.4	131612.7	101323.3	75863.5	59046.3	45819.3	34487.4	25028.7	16580.2	10157.7	7017.1
2.5°	176876.4	136563.1	105157.8	78068.9	60585.4	47016.5	35386.2	25769.9	17109.2	10396.6	7094.6
0°	179330.7	138232.3	106447.9	78809.6	61101.7	47417.7	35687.1	26017.9	17286.1	10476.4	7120.5
-2.5°	176876.4	136563.1	105157.8	78068.9	60585.4	47016.5	35386.2	25769.9	17109.2	10396.6	7094.6
-5°	169620.4	131612.7	101323.3	75863.5	59046.3	45819.3	34487.4	25028.7	16580.2	10157.7	7017.1
-7.5°	157861.5	123543.6	95046.2	72241.8	56512.6	43844.6	33002.7	23802.7	15704.4	9761.9	6888.6
-10°	142034.0	112598.4	86482.5	67278.8	53028.4	41121.7	30951.0	22105.4	14490.1	9212.5	6710.1
-12.5°	126173.4	100030.8	76896.8	61076.4	48650.6	37688.7	28357.0	19954.7	12948.6	8513.9	6482.7
-15°	108809.9	86286.1	68860.9	55396.5	44011.4	33958.7	25324.8	17372.1	11093.3	7671.6	6208.2
-17.5°	91667.9	73693.5	60060.8	48921.0	38897.6	30071.9	22085.7	15020.9	9719.1	6968.8	5907.3
-20°	75332.5	62843.0	52298.3	42546.2	33632.0	25747.1	18444.1	12390.7	8519.0	6575.8	5698.6



REPORT NUMBER: P699864 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-4S-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	62843.0	53440.2	44405.8	35846.1	28493.0	21430.8	15059.9	9986.9	7188.6	6139.1	5466.2
-25°	52298.3	44405.8	36740.8	29903.5	23259.0	16880.7	11665.6	8427.7	6630.8	5776.9	5207.0
-27.5°	42546.2	35846.1	29903.5	23874.7	17950.4	12998.3	9270.7	6990.2	6077.2	5480.5	4900.1
-30°	33632.0	28493.0	23259.0	17950.4	13446.5	9697.6	7371.0	6359.6	5676.6	5153.7	4571.3
-32.5°	25747.1	21430.8	16880.7	12998.3	9697.6	7579.0	6502.3	5796.0	5318.0	4779.9	4303.8
-35°	18444.1	15059.9	11665.6	9270.7	7371.0	6502.3	5836.1	5396.0	4906.7	4418.6	4047.1
-37.5°	12390.7	9986.9	8427.7	6990.2	6359.6	5796.0	5396.0	4949.3	4476.5	4131.9	3793.2
-40°	8519.0	7188.6	6630.8	6077.2	5676.6	5318.0	4906.7	4476.5	4160.4	3844.4	3535.8
-42.5°	6575.8	6139.1	5776.9	5480.5	5153.7	4779.9	4418.6	4131.9	3844.4	3561.0	3241.3
-45°	5698.6	5466.2	5207.0	4900.1	4571.3	4303.8	4047.1	3793.2	3535.8	3241.3	2929.1
-47.5°	5071.3	4832.2	4569.5	4347.5	4134.3	3911.9	3691.8	3458.4	3185.3	2899.6	2585.3
-50°	4419.8	4266.0	4096.8	3917.0	3735.4	3541.7	3318.2	3074.2	2811.4	2527.1	2235.6
-52.5°	3942.6	3812.6	3669.3	3513.4	3328.0	3125.0	2908.4	2665.8	2411.6	2152.3	1885.1
-55°	3500.2	3368.2	3219.2	3056.8	2878.4	2677.9	2465.1	2243.4	2014.6	1775.6	1553.6
-57.5°	3000.3	2873.2	2727.3	2568.1	2396.1	2215.6	2025.4	1824.5	1630.5	1433.5	1234.1
-60°	2465.1	2344.8	2215.6	2074.6	1922.1	1759.9	1604.6	1440.4	1267.6	1115.1	956.8
-62.5°	1934.9	1829.3	1718.7	1604.6	1481.2	1348.6	1216.3	1090.8	958.6	823.3	707.8
-65°	1446.1	1361.4	1267.6	1180.7	1087.3	987.0	879.9	780.5	685.0	584.8	485.4
-67.5°	1020.2	956.8	886.6	815.1	748.4	676.8	600.3	519.2	455.2	396.7	335.5
-70°	665.6	621.0	571.5	517.3	471.4	430.2	386.2	339.5	290.2	250.7	215.5
-72.5°	398.9	373.7	345.8	315.1	281.8	255.6	230.7	204.3	176.4	147.0	122.3
-75°	220.1	206.2	190.7	173.7	155.3	135.5	121.2	109.2	96.5	83.2	69.2
-77.5°	105.7	99.6	92.8	85.3	77.2	68.4	59.0	51.5	48.3	44.9	41.4
-80°	46.9	45.4	43.7	41.9	40.0	37.9	35.6	33.2	30.6	28.2	26.0
-82.5°	26.0	25.1	24.2	23.1	22.0	20.7	19.4	18.0	16.5	14.9	13.3
-85°	10.1	9.9	9.6	9.3	8.9	8.6	8.2	7.7	7.3	6.8	6.3
-87.5°	2.8	2.8	2.7	2.7	2.6	2.5	2.5	2.4	2.3	2.2	2.1
-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: P699864 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-4S-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°	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.1	1.0	0.9
85°	5.8	5.3	4.8	4.2	3.6	3.0	2.8	2.5	2.3	2.0	1.8
82.5°	11.5	10.5	9.7	8.8	7.9	7.0	6.1	5.1	4.2	3.2	2.7
80°	23.7	21.4	18.9	16.3	13.7	11.0	9.8	8.5	7.2	5.9	4.6
77.5°	37.7	33.9	30.0	26.6	23.3	19.9	16.5	12.9	10.3	8.7	7.0
75°	54.7	48.6	43.8	38.9	33.9	28.8	24.7	20.4	16.1	11.7	9.4
72.5°	105.3	87.6	69.3	51.9	46.0	39.9	33.8	27.9	22.8	17.7	12.5
70°	178.8	140.7	114.4	92.8	70.6	51.1	44.0	36.8	29.5	23.6	17.7
67.5°	272.4	229.6	185.2	139.6	109.7	84.1	58.0	46.1	37.8	29.5	22.8
65°	414.6	341.1	268.1	217.4	165.2	120.0	90.9	61.4	46.1	36.8	27.9
62.5°	587.8	474.6	391.1	305.2	236.8	178.1	123.4	90.9	58.0	44.0	33.8
60°	801.4	665.6	525.5	421.3	325.3	243.3	178.1	120.0	84.1	51.1	39.9
57.5°	1055.7	871.4	712.6	556.8	431.4	325.3	236.8	165.2	109.7	70.6	46.0
55°	1324.2	1115.6	911.0	728.4	556.8	421.3	305.2	217.4	139.6	92.8	51.9
52.5°	1626.3	1372.3	1135.6	911.0	712.6	525.5	391.1	268.1	185.2	114.4	69.3
50°	1940.2	1650.7	1372.3	1115.6	871.4	665.6	474.6	341.1	229.6	140.7	87.6
47.5°	2263.6	1940.2	1626.3	1324.2	1055.7	801.4	587.8	414.6	272.4	178.8	105.3
45°	2585.3	2235.6	1885.1	1553.6	1234.1	956.8	707.8	485.4	335.5	215.5	122.3
42.5°	2899.6	2527.1	2152.3	1775.6	1433.5	1115.1	823.3	584.8	396.7	250.7	147.0
40°	3185.3	2811.4	2411.6	2014.6	1630.5	1267.6	958.6	685.0	455.2	290.2	176.4
37.5°	3458.4	3074.2	2665.8	2243.4	1824.5	1440.4	1090.8	780.5	519.2	339.5	204.3
35°	3691.8	3318.2	2908.4	2465.1	2025.4	1604.6	1216.3	879.9	600.3	386.2	230.7
32.5°	3911.9	3541.7	3125.0	2677.9	2215.6	1759.9	1348.6	987.0	676.8	430.2	255.6
30°	4134.3	3735.4	3328.0	2878.4	2396.1	1922.1	1481.2	1087.3	748.4	471.4	281.8
27.5°	4347.5	3917.0	3513.4	3056.8	2568.1	2074.6	1604.6	1180.7	815.1	517.3	315.1
25°	4569.5	4096.8	3669.3	3219.2	2727.3	2215.6	1718.7	1267.6	886.6	571.5	345.8
22.5°	4832.2	4266.0	3812.6	3368.2	2873.2	2344.8	1829.3	1361.4	956.8	621.0	373.7
20°	5071.3	4419.8	3942.6	3500.2	3000.3	2465.1	1934.9	1446.1	1020.2	665.6	398.9
17.5°	5282.1	4585.9	4067.3	3606.8	3110.4	2572.2	2029.0	1521.5	1076.5	705.2	421.3
15°	5451.5	4759.3	4178.3	3700.1	3206.8	2665.8	2111.2	1587.3	1125.6	739.8	440.8
12.5°	5596.6	4907.7	4273.1	3779.7	3288.9	2745.6	2181.2	1643.3	1167.5	769.2	457.4
10°	5716.6	5030.3	4351.4	3845.4	3356.6	2811.4	2238.8	1689.4	1201.8	793.3	471.0
7.5°	5810.8	5126.3	4412.7	3896.8	3409.6	2862.7	2283.8	1725.4	1228.7	812.2	481.7
5°	5878.5	5195.3	4456.7	3933.7	3447.5	2899.6	2316.0	1751.1	1247.9	825.7	489.3
2.5°	5919.3	5236.9	4483.2	3955.9	3470.4	2921.7	2335.4	1766.6	1259.4	833.8	493.9
0°	5932.9	5250.8	4492.0	3963.3	3478.0	2929.1	2341.9	1771.8	1263.3	836.5	495.4
-2.5°	5919.3	5236.9	4483.2	3955.9	3470.4	2921.7	2335.4	1766.6	1259.4	833.8	493.9
-5°	5878.5	5195.3	4456.7	3933.7	3447.5	2899.6	2316.0	1751.1	1247.9	825.7	489.3
-7.5°	5810.8	5126.3	4412.7	3896.8	3409.6	2862.7	2283.8	1725.4	1228.7	812.2	481.7
-10°	5716.6	5030.3	4351.4	3845.4	3356.6	2811.4	2238.8	1689.4	1201.8	793.3	471.0
-12.5°	5596.6	4907.7	4273.1	3779.7	3288.9	2745.6	2181.2	1643.3	1167.5	769.2	457.4
-15°	5451.5	4759.3	4178.3	3700.1	3206.8	2665.8	2111.2	1587.3	1125.6	739.8	440.8
-17.5°	5282.1	4585.9	4067.3	3606.8	3110.4	2572.2	2029.0	1521.5	1076.5	705.2	421.3
-20°	5071.3	4419.8	3942.6	3500.2	3000.3	2465.1	1934.9	1446.1	1020.2	665.6	398.9



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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°	4832.2	4266.0	3812.6	3368.2	2873.2	2344.8	1829.3	1361.4	956.8	621.0	373.7
-25°	4569.5	4096.8	3669.3	3219.2	2727.3	2215.6	1718.7	1267.6	886.6	571.5	345.8
-27.5°	4347.5	3917.0	3513.4	3056.8	2568.1	2074.6	1604.6	1180.7	815.1	517.3	315.1
-30°	4134.3	3735.4	3328.0	2878.4	2396.1	1922.1	1481.2	1087.3	748.4	471.4	281.8
-32.5°	3911.9	3541.7	3125.0	2677.9	2215.6	1759.9	1348.6	987.0	676.8	430.2	255.6
-35°	3691.8	3318.2	2908.4	2465.1	2025.4	1604.6	1216.3	879.9	600.3	386.2	230.7
-37.5°	3458.4	3074.2	2665.8	2243.4	1824.5	1440.4	1090.8	780.5	519.2	339.5	204.3
-40°	3185.3	2811.4	2411.6	2014.6	1630.5	1267.6	958.6	685.0	455.2	290.2	176.4
-42.5°	2899.6	2527.1	2152.3	1775.6	1433.5	1115.1	823.3	584.8	396.7	250.7	147.0
-45°	2585.3	2235.6	1885.1	1553.6	1234.1	956.8	707.8	485.4	335.5	215.5	122.3
-47.5°	2263.6	1940.2	1626.3	1324.2	1055.7	801.4	587.8	414.6	272.4	178.8	105.3
-50°	1940.2	1650.7	1372.3	1115.6	871.4	665.6	474.6	341.1	229.6	140.7	87.6
-52.5°	1626.3	1372.3	1135.6	911.0	712.6	525.5	391.1	268.1	185.2	114.4	69.3
-55°	1324.2	1115.6	911.0	728.4	556.8	421.3	305.2	217.4	139.6	92.8	51.9
-57.5°	1055.7	871.4	712.6	556.8	431.4	325.3	236.8	165.2	109.7	70.6	46.0
-60°	801.4	665.6	525.5	421.3	325.3	243.3	178.1	120.0	84.1	51.1	39.9
-62.5°	587.8	474.6	391.1	305.2	236.8	178.1	123.4	90.9	58.0	44.0	33.8
-65°	414.6	341.1	268.1	217.4	165.2	120.0	90.9	61.4	46.1	36.8	27.9
-67.5°	272.4	229.6	185.2	139.6	109.7	84.1	58.0	46.1	37.8	29.5	22.8
-70°	178.8	140.7	114.4	92.8	70.6	51.1	44.0	36.8	29.5	23.6	17.7
-72.5°	105.3	87.6	69.3	51.9	46.0	39.9	33.8	27.9	22.8	17.7	12.5
-75°	54.7	48.6	43.8	38.9	33.9	28.8	24.7	20.4	16.1	11.7	9.4
-77.5°	37.7	33.9	30.0	26.6	23.3	19.9	16.5	12.9	10.3	8.7	7.0
-80°	23.7	21.4	18.9	16.3	13.7	11.0	9.8	8.5	7.2	5.9	4.6
-82.5°	11.5	10.5	9.7	8.8	7.9	7.0	6.1	5.1	4.2	3.2	2.7
-85°	5.8	5.3	4.8	4.2	3.6	3.0	2.8	2.5	2.3	2.0	1.8
-87.5°	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.1	1.0	0.9
-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°	0.8	0.6	0.5	0.4	0.3	0.1	0.0
85°	1.6	1.3	1.0	0.8	0.5	0.3	0.0
82.5°	2.3	1.9	1.6	1.2	0.8	0.4	0.0
80°	3.2	2.6	2.1	1.6	1.0	0.5	0.0
77.5°	5.3	3.6	2.6	1.9	1.3	0.6	0.0
75°	7.3	5.3	3.2	2.3	1.6	0.8	0.0
72.5°	9.4	7.0	4.6	2.7	1.8	0.9	0.0
70°	11.7	8.7	5.9	3.2	2.0	1.0	0.0
67.5°	16.1	10.3	7.2	4.2	2.3	1.1	0.0
65°	20.4	12.9	8.5	5.1	2.5	1.3	0.0
62.5°	24.7	16.5	9.8	6.1	2.8	1.4	0.0
60°	28.8	19.9	11.0	7.0	3.0	1.5	0.0
57.5°	33.9	23.3	13.7	7.9	3.6	1.6	0.0
55°	38.9	26.6	16.3	8.8	4.2	1.7	0.0
52.5°	43.8	30.0	18.9	9.7	4.8	1.8	0.0
50°	48.6	33.9	21.4	10.5	5.3	1.9	0.0
47.5°	54.7	37.7	23.7	11.5	5.8	2.0	0.0
45°	69.2	41.4	26.0	13.3	6.3	2.1	0.0
42.5°	83.2	44.9	28.2	14.9	6.8	2.2	0.0
40°	96.5	48.3	30.6	16.5	7.3	2.3	0.0
37.5°	109.2	51.5	33.2	18.0	7.7	2.4	0.0
35°	121.2	59.0	35.6	19.4	8.2	2.5	0.0
32.5°	135.5	68.4	37.9	20.7	8.6	2.5	0.0
30°	155.3	77.2	40.0	22.0	8.9	2.6	0.0
27.5°	173.7	85.3	41.9	23.1	9.3	2.7	0.0
25°	190.7	92.8	43.7	24.2	9.6	2.7	0.0
22.5°	206.2	99.6	45.4	25.1	9.9	2.8	0.0
20°	220.1	105.7	46.9	26.0	10.1	2.8	0.0
17.5°	232.5	111.2	48.2	26.8	10.3	2.9	0.0
15°	243.3	115.9	49.3	27.4	10.5	2.9	0.0
12.5°	252.4	120.0	50.3	28.0	10.7	2.9	0.0
10°	260.0	123.3	51.1	28.5	10.9	3.0	0.0
7.5°	265.8	125.9	51.7	28.8	11.0	3.0	0.0
5°	270.0	127.7	52.1	29.1	11.0	3.0	0.0
2.5°	272.6	128.8	52.4	29.2	11.1	3.0	0.0
0°	273.4	129.2	52.5	29.3	11.1	3.0	0.0
-2.5°	272.6	128.8	52.4	29.2	11.1	3.0	0.0
-5°	270.0	127.7	52.1	29.1	11.0	3.0	0.0
-7.5°	265.8	125.9	51.7	28.8	11.0	3.0	0.0
-10°	260.0	123.3	51.1	28.5	10.9	3.0	0.0
-12.5°	252.4	120.0	50.3	28.0	10.7	2.9	0.0
-15°	243.3	115.9	49.3	27.4	10.5	2.9	0.0
-17.5°	232.5	111.2	48.2	26.8	10.3	2.9	0.0
-20°	220.1	105.7	46.9	26.0	10.1	2.8	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	206.2	99.6	45.4	25.1	9.9	2.8	0.0
-25°	190.7	92.8	43.7	24.2	9.6	2.7	0.0
-27.5°	173.7	85.3	41.9	23.1	9.3	2.7	0.0
-30°	155.3	77.2	40.0	22.0	8.9	2.6	0.0
-32.5°	135.5	68.4	37.9	20.7	8.6	2.5	0.0
-35°	121.2	59.0	35.6	19.4	8.2	2.5	0.0
-37.5°	109.2	51.5	33.2	18.0	7.7	2.4	0.0
-40°	96.5	48.3	30.6	16.5	7.3	2.3	0.0
-42.5°	83.2	44.9	28.2	14.9	6.8	2.2	0.0
-45°	69.2	41.4	26.0	13.3	6.3	2.1	0.0
-47.5°	54.7	37.7	23.7	11.5	5.8	2.0	0.0
-50°	48.6	33.9	21.4	10.5	5.3	1.9	0.0
-52.5°	43.8	30.0	18.9	9.7	4.8	1.8	0.0
-55°	38.9	26.6	16.3	8.8	4.2	1.7	0.0
-57.5°	33.9	23.3	13.7	7.9	3.6	1.6	0.0
-60°	28.8	19.9	11.0	7.0	3.0	1.5	0.0
-62.5°	24.7	16.5	9.8	6.1	2.8	1.4	0.0
-65°	20.4	12.9	8.5	5.1	2.5	1.3	0.0
-67.5°	16.1	10.3	7.2	4.2	2.3	1.1	0.0
-70°	11.7	8.7	5.9	3.2	2.0	1.0	0.0
-72.5°	9.4	7.0	4.6	2.7	1.8	0.9	0.0
-75°	7.3	5.3	3.2	2.3	1.6	0.8	0.0
-77.5°	5.3	3.6	2.6	1.9	1.3	0.6	0.0
-80°	3.2	2.6	2.1	1.6	1.0	0.5	0.0
-82.5°	2.3	1.9	1.6	1.2	0.8	0.4	0.0
-85°	1.6	1.3	1.0	0.8	0.5	0.3	0.0
-87.5°	0.8	0.6	0.5	0.4	0.3	0.1	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)