

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: P699880 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200L-40-80-5S-S**

Issue Date: 8/10/2023

Test Information

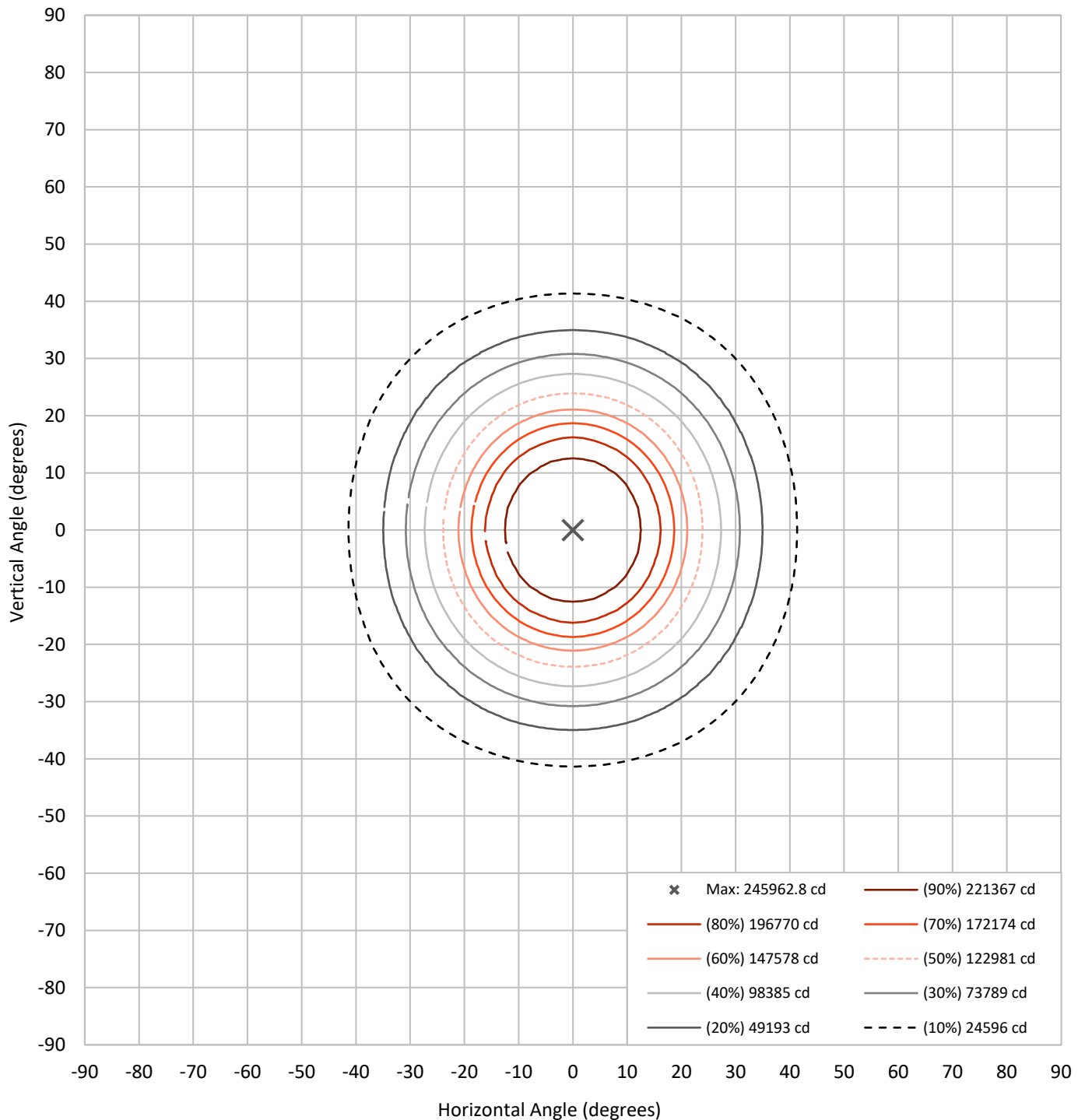
Test Method: LM-79-08
Report Number: P699880 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-13)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200L-40-80-5S-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 4000K, 80 CRI LEDS AND 5S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	179484.2 lumens	Max Intensity:	245962.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	147.8 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	47.8°H x 47.8°V	Field Angle (10%):	82.7°H x 82.7°V
Beam Lumens:	100041.8 lumens	Field Lumens:	165131.5 lumens
Beam Efficiency:	55.7%	Field Efficiency:	92.0%
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





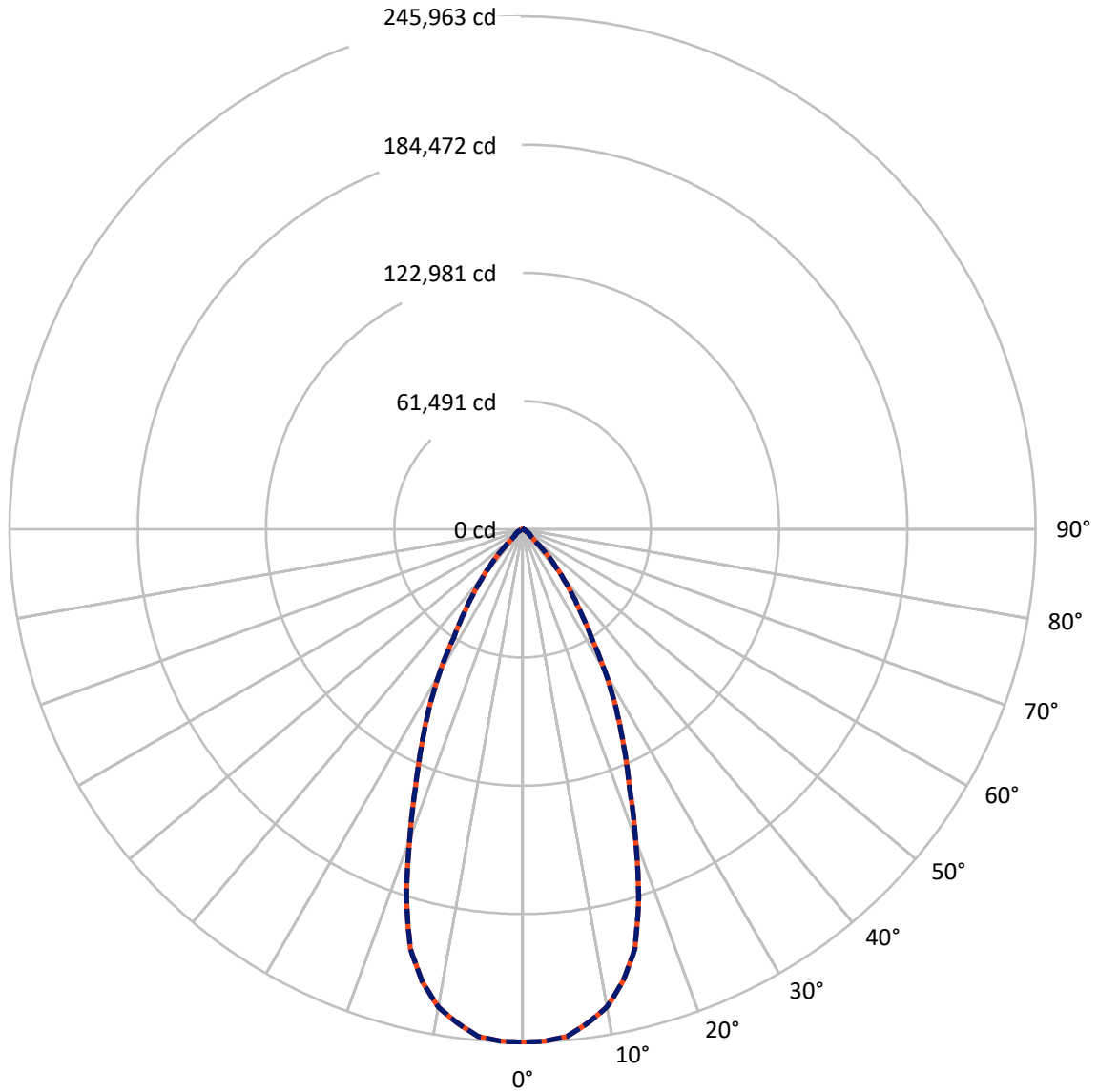
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Lumen Table

90	0.2	1.6	6.3	14.5	18.7	14.5	6.3	1.6	0.2							
80	0.2	1.6	6.3	14.5	18.7	14.5	6.3	1.6	0.2							
70	0.8	1.0	3.7	9.7	19.2	30.2	40.3	45.9	45.9	40.3	30.2	19.2	9.7	3.7	1.0	0.8
60		2.8	11.2	28.5	54.1	82.2	104.4	116.6	116.6	104.4	82.2	54.1	28.5	11.2	2.8	
50	2.1	6.0	23.3	57.2	100.1	170.5	311.3	427.0	427.0	311.3	170.5	100.1	57.2	23.3	6.0	2.1
40		10.2	38.3	86.7	220.2	627.7	1122.5	1475.1	1475.1	1122.5	627.7	220.2	86.7	38.3	10.2	
30	4.2	14.6	52.7	134.4	570.5	1415.2	2543.6	3374.0	3374.0	2543.6	1415.2	570.5	134.4	52.7	14.6	4.2
20		18.2	62.7	232.5	959.1	2393.5	4340.6	5890.4	5890.4	4340.6	2393.5	959.1	232.5	62.7	18.2	
10	5.1	20.2	68.0	310.1	1223.8	3081.9	5718.9	7178.6	7178.6	5718.9	3081.9	1223.8	310.1	68.0	20.2	5.1
0		20.2	68.0	310.1	1223.8	3081.9	5718.9	7178.6	7178.6	5718.9	3081.9	1223.8	310.1	68.0	20.2	
-10	4.2	18.2	62.7	232.5	959.1	2393.5	4340.6	5890.4	5890.4	4340.6	2393.5	959.1	232.5	62.7	18.2	4.2
-20		14.6	52.7	134.4	570.5	1415.2	2543.6	3374.0	3374.0	2543.6	1415.2	570.5	134.4	52.7	14.6	
-30	2.1	10.2	38.3	86.7	220.2	627.7	1122.5	1475.1	1475.1	1122.5	627.7	220.2	86.7	38.3	10.2	2.1
-40		6.0	23.3	57.2	100.1	170.5	311.3	427.0	427.0	311.3	170.5	100.1	57.2	23.3	6.0	
-50	0.8	2.8	11.2	28.5	54.1	82.2	104.4	116.6	116.6	104.4	82.2	54.1	28.5	11.2	2.8	0.8
-60		1.0	3.7	9.7	19.2	30.2	40.3	45.9	45.9	40.3	30.2	19.2	9.7	3.7	1.0	
-70	0.2	1.6	6.3	14.5	18.7	14.5	6.3	1.6	0.2							
-80		0.2	1.6	6.3	14.5	18.7	14.5	6.3	1.6	0.2						
-90	0.2	1.6	6.3	14.5	18.7	14.5	6.3	1.6	0.2							

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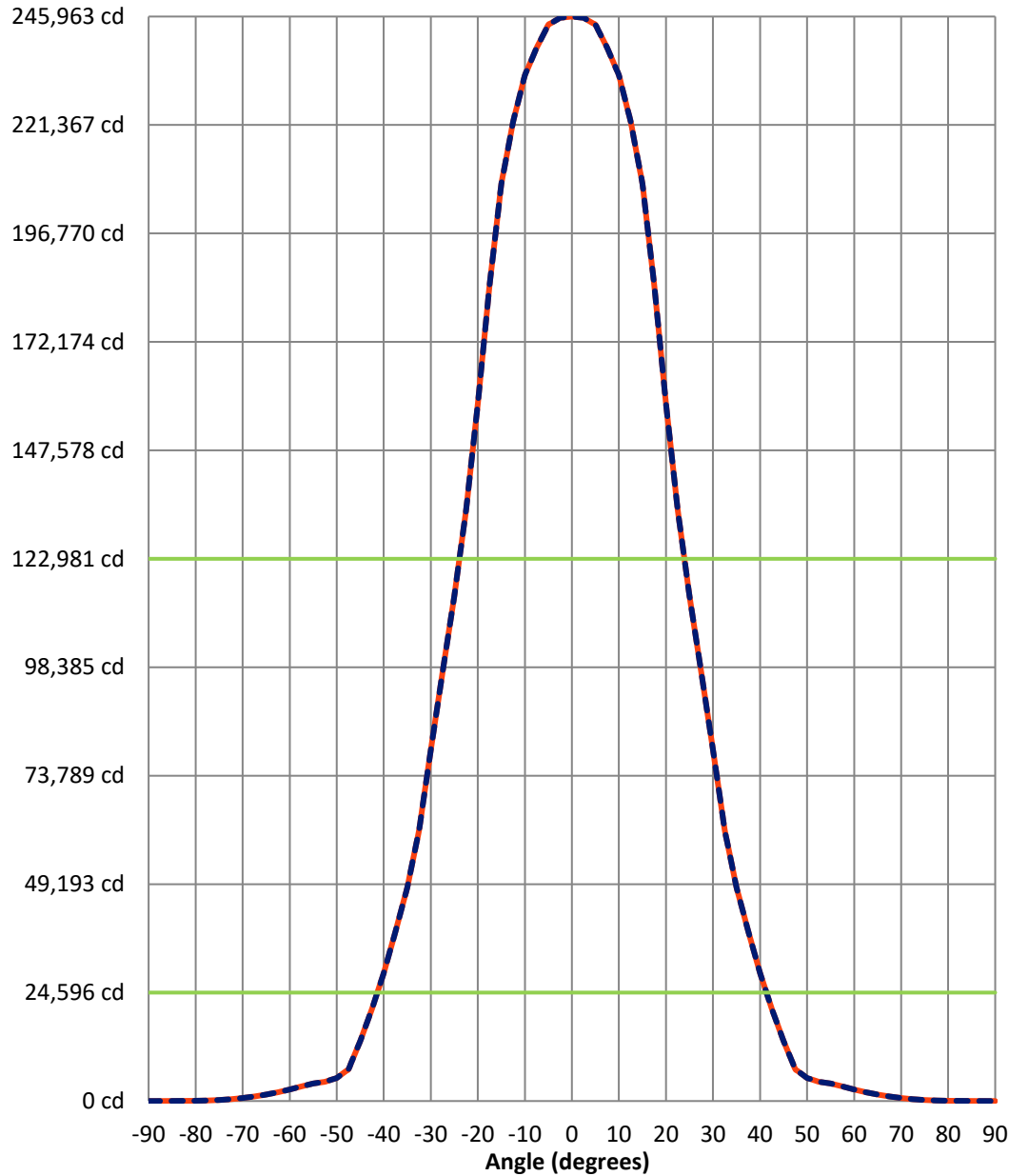
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 47.8°
V Angle: 47.8°
Lumens: 100041.8
Efficiency: 55.7%

Field:
H Angle: 82.7°
V Angle: 82.7°
Lumens: 165131.5
Efficiency: 92.0%

Spill:
Lumens: 14352.7
Efficiency: 8.0%

— 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	0.3	0.6	0.9	1.1	1.4	1.7	2.0	2.3	2.5	2.8
85°	0.0	0.6	1.1	1.7	2.3	2.9	3.4	4.0	4.5	5.0	5.6
82.5°	0.0	0.9	1.7	2.6	3.4	4.3	5.1	5.9	7.0	8.8	10.6
80°	0.0	1.1	2.3	3.4	4.6	5.7	7.1	9.6	12.0	14.5	16.9
77.5°	0.0	1.4	2.9	4.3	5.7	7.7	10.9	14.0	17.1	20.1	23.5
75°	0.0	1.7	3.4	5.1	7.1	10.9	14.6	18.4	22.2	26.7	31.2
72.5°	0.0	2.0	4.0	5.9	9.6	14.0	18.4	23.0	28.4	33.6	38.8
70°	0.0	2.3	4.5	7.0	12.0	17.1	22.2	28.4	34.4	40.5	47.6
67.5°	0.0	2.5	5.0	8.8	14.5	20.1	26.7	33.6	40.5	48.6	56.6
65°	0.0	2.8	5.6	10.6	16.9	23.5	31.2	38.8	47.6	56.6	69.6
62.5°	0.0	3.0	6.1	12.3	19.2	27.1	35.5	44.6	54.6	67.0	92.4
60°	0.0	3.3	6.6	14.1	21.5	30.7	39.8	50.6	61.4	87.1	114.7
57.5°	0.0	3.5	7.7	15.7	24.2	34.2	44.7	56.5	76.7	106.8	150.4
55°	0.0	3.8	8.8	17.4	27.0	37.5	49.6	62.2	93.8	130.0	191.7
52.5°	0.0	4.0	9.8	18.9	29.6	40.9	54.4	75.7	110.4	166.2	231.9
50°	0.0	4.2	10.9	20.5	32.1	44.8	59.0	89.8	130.9	201.4	291.8
47.5°	0.0	4.5	11.9	22.0	34.6	48.5	64.5	103.4	161.1	235.3	352.3
45°	0.0	4.7	12.8	23.8	37.0	52.0	75.7	116.5	190.2	287.2	410.6
42.5°	0.0	4.9	13.7	25.5	39.2	55.4	86.4	135.9	218.1	337.5	490.0
40°	0.0	5.1	14.6	27.1	41.6	58.7	96.7	159.2	249.9	385.7	569.8
37.5°	0.0	5.2	15.4	28.7	44.1	61.8	106.4	181.3	290.5	437.7	645.9
35°	0.0	5.4	16.2	30.1	46.4	67.8	115.7	202.3	328.9	502.4	726.0
32.5°	0.0	5.6	16.9	31.5	48.6	75.0	126.8	222.0	365.1	563.3	813.4
30°	0.0	5.7	17.6	32.7	50.6	81.8	142.5	243.0	399.0	620.4	895.3
27.5°	0.0	5.9	18.2	33.9	52.5	88.0	157.1	270.4	436.2	673.4	971.6
25°	0.0	6.0	18.8	35.0	54.3	93.8	170.5	295.7	479.4	731.4	1042.8
22.5°	0.0	6.1	19.3	36.0	55.9	99.0	182.8	318.7	518.8	788.8	1123.0
20°	0.0	6.2	19.8	36.9	57.3	103.7	193.9	339.4	554.3	840.5	1195.4
17.5°	0.0	6.3	20.2	37.7	58.6	107.9	203.7	357.8	585.9	886.5	1259.9
15°	0.0	6.4	20.6	38.4	59.7	111.6	212.2	373.9	613.4	926.7	1316.1
12.5°	0.0	6.4	20.9	39.0	60.6	114.7	219.5	387.5	636.9	960.8	1364.0
10°	0.0	6.5	21.1	39.4	61.4	117.2	225.4	398.8	656.1	988.9	1403.4
7.5°	0.0	6.5	21.3	39.8	62.0	119.2	230.1	407.5	671.1	1010.8	1434.2
5°	0.0	6.6	21.5	40.1	62.5	120.7	233.4	413.8	681.9	1026.5	1456.2
2.5°	0.0	6.6	21.6	40.2	62.7	121.5	235.4	417.5	688.3	1036.0	1469.5
0°	0.0	6.6	21.6	40.3	62.8	121.8	236.1	418.8	690.5	1039.1	1473.9
-2.5°	0.0	6.6	21.6	40.2	62.7	121.5	235.4	417.5	688.3	1036.0	1469.5
-5°	0.0	6.6	21.5	40.1	62.5	120.7	233.4	413.8	681.9	1026.5	1456.2
-7.5°	0.0	6.5	21.3	39.8	62.0	119.2	230.1	407.5	671.1	1010.8	1434.2
-10°	0.0	6.5	21.1	39.4	61.4	117.2	225.4	398.8	656.1	988.9	1403.4
-12.5°	0.0	6.4	20.9	39.0	60.6	114.7	219.5	387.5	636.9	960.8	1364.0
-15°	0.0	6.4	20.6	38.4	59.7	111.6	212.2	373.9	613.4	926.7	1316.1
-17.5°	0.0	6.3	20.2	37.7	58.6	107.9	203.7	357.8	585.9	886.5	1259.9
-20°	0.0	6.2	19.8	36.9	57.3	103.7	193.9	339.4	554.3	840.5	1195.4



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 CATALOG NUMBER: EPH-LS-16-1200L-40-80-5S-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	6.1	19.3	36.0	55.9	99.0	182.8	318.7	518.8	788.8	1123.0
-25°	0.0	6.0	18.8	35.0	54.3	93.8	170.5	295.7	479.4	731.4	1042.8
-27.5°	0.0	5.9	18.2	33.9	52.5	88.0	157.1	270.4	436.2	673.4	971.6
-30°	0.0	5.7	17.6	32.7	50.6	81.8	142.5	243.0	399.0	620.4	895.3
-32.5°	0.0	5.6	16.9	31.5	48.6	75.0	126.8	222.0	365.1	563.3	813.4
-35°	0.0	5.4	16.2	30.1	46.4	67.8	115.7	202.3	328.9	502.4	726.0
-37.5°	0.0	5.2	15.4	28.7	44.1	61.8	106.4	181.3	290.5	437.7	645.9
-40°	0.0	5.1	14.6	27.1	41.6	58.7	96.7	159.2	249.9	385.7	569.8
-42.5°	0.0	4.9	13.7	25.5	39.2	55.4	86.4	135.9	218.1	337.5	490.0
-45°	0.0	4.7	12.8	23.8	37.0	52.0	75.7	116.5	190.2	287.2	410.6
-47.5°	0.0	4.5	11.9	22.0	34.6	48.5	64.5	103.4	161.1	235.3	352.3
-50°	0.0	4.2	10.9	20.5	32.1	44.8	59.0	89.8	130.9	201.4	291.8
-52.5°	0.0	4.0	9.8	18.9	29.6	40.9	54.4	75.7	110.4	166.2	231.9
-55°	0.0	3.8	8.8	17.4	27.0	37.5	49.6	62.2	93.8	130.0	191.7
-57.5°	0.0	3.5	7.7	15.7	24.2	34.2	44.7	56.5	76.7	106.8	150.4
-60°	0.0	3.3	6.6	14.1	21.5	30.7	39.8	50.6	61.4	87.1	114.7
-62.5°	0.0	3.0	6.1	12.3	19.2	27.1	35.5	44.6	54.6	67.0	92.4
-65°	0.0	2.8	5.6	10.6	16.9	23.5	31.2	38.8	47.6	56.6	69.6
-67.5°	0.0	2.5	5.0	8.8	14.5	20.1	26.7	33.6	40.5	48.6	56.6
-70°	0.0	2.3	4.5	7.0	12.0	17.1	22.2	28.4	34.4	40.5	47.6
-72.5°	0.0	2.0	4.0	5.9	9.6	14.0	18.4	23.0	28.4	33.6	38.8
-75°	0.0	1.7	3.4	5.1	7.1	10.9	14.6	18.4	22.2	26.7	31.2
-77.5°	0.0	1.4	2.9	4.3	5.7	7.7	10.9	14.0	17.1	20.1	23.5
-80°	0.0	1.1	2.3	3.4	4.6	5.7	7.1	9.6	12.0	14.5	16.9
-82.5°	0.0	0.9	1.7	2.6	3.4	4.3	5.1	5.9	7.0	8.8	10.6
-85°	0.0	0.6	1.1	1.7	2.3	2.9	3.4	4.0	4.5	5.0	5.6
-87.5°	0.0	0.3	0.6	0.9	1.1	1.4	1.7	2.0	2.3	2.5	2.8
-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-40-80-5S-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°	3.0	3.3	3.5	3.8	4.0	4.2	4.5	4.7	4.9	5.1	5.2
85°	6.1	6.6	7.7	8.8	9.8	10.9	11.9	12.8	13.7	14.6	15.4
82.5°	12.3	14.1	15.7	17.4	18.9	20.5	22.0	23.8	25.5	27.1	28.7
80°	19.2	21.5	24.2	27.0	29.6	32.1	34.6	37.0	39.2	41.6	44.1
77.5°	27.1	30.7	34.2	37.5	40.9	44.8	48.5	52.0	55.4	58.7	61.8
75°	35.5	39.8	44.7	49.6	54.4	59.0	64.5	75.7	86.4	96.7	106.4
72.5°	44.6	50.6	56.5	62.2	75.7	89.8	103.4	116.5	135.9	159.2	181.3
70°	54.6	61.4	76.7	93.8	110.4	130.9	161.1	190.2	218.1	249.9	290.5
67.5°	67.0	87.1	106.8	130.0	166.2	201.4	235.3	287.2	337.5	385.7	437.7
65°	92.4	114.7	150.4	191.7	231.9	291.8	352.3	410.6	490.0	569.8	645.9
62.5°	117.3	160.6	207.1	262.3	333.0	401.7	492.4	588.0	680.0	790.2	898.2
60°	160.6	212.2	278.8	357.8	442.8	554.3	662.5	788.8	918.0	1042.8	1190.5
57.5°	207.1	278.8	366.2	467.7	591.8	719.0	869.6	1015.3	1184.7	1353.0	1521.9
55°	262.3	357.8	467.7	604.4	751.4	918.4	1091.1	1287.4	1477.4	1695.3	1904.1
52.5°	333.0	442.8	591.8	751.4	934.8	1132.3	1349.5	1577.2	1820.9	2068.1	2338.6
50°	401.7	554.3	719.0	918.4	1132.3	1370.3	1627.5	1897.0	2191.0	2493.5	2804.9
47.5°	492.4	662.5	869.6	1091.1	1349.5	1627.5	1922.4	2252.9	2587.4	2947.2	3297.3
45°	588.0	788.8	1015.3	1287.4	1577.2	1897.0	2252.9	2618.8	3019.0	3401.3	3752.2
42.5°	680.0	918.0	1184.7	1477.4	1820.9	2191.0	2587.4	3019.0	3435.6	3821.9	4107.4
40°	790.2	1042.8	1353.0	1695.3	2068.1	2493.5	2947.2	3401.3	3821.9	4128.3	4359.6
37.5°	898.2	1190.5	1521.9	1904.1	2338.6	2804.9	3297.3	3752.2	4107.4	4359.6	4891.0
35°	1000.7	1331.0	1705.2	2125.0	2596.8	3117.6	3613.9	4045.3	4317.2	4842.6	5655.5
32.5°	1112.0	1463.8	1878.7	2351.5	2869.9	3409.3	3914.0	4233.3	4698.4	5429.0	6816.3
30°	1225.4	1611.0	2051.5	2564.8	3130.2	3673.3	4109.2	4461.2	5123.5	6469.9	9514.2
27.5°	1331.0	1750.1	2234.6	2782.6	3370.7	3920.9	4265.2	4835.1	5900.6	7991.8	12914.3
25°	1428.5	1878.7	2404.1	2990.7	3583.3	4081.7	4459.2	5184.1	6761.0	10976.9	16462.7
22.5°	1526.3	1997.0	2559.3	3181.7	3778.5	4205.6	4757.9	5859.1	8325.3	13765.3	19857.0
20°	1622.7	2125.0	2710.1	3352.8	3955.7	4318.1	5029.8	6533.6	10679.9	16661.3	23206.1
17.5°	1708.5	2239.0	2851.3	3498.1	4060.1	4477.8	5324.9	7139.3	12798.9	19273.9	26343.8
15°	1783.5	2338.6	2974.8	3625.2	4141.4	4675.0	5816.5	8698.0	14816.7	21658.4	29138.9
12.5°	1847.3	2423.6	3080.1	3733.8	4210.8	4843.8	6237.7	10178.3	16650.4	23871.7	31929.6
10°	1899.8	2493.5	3166.9	3823.3	4268.1	4983.1	6586.0	11404.1	18171.2	25710.6	34253.5
7.5°	1940.9	2548.2	3234.8	3893.4	4312.9	5092.4	6859.3	12366.8	19367.2	27159.2	36087.6
5°	1970.3	2587.4	3283.4	3943.6	4345.1	5170.8	7055.7	13059.6	20228.8	28204.0	37412.4
2.5°	1988.0	2610.9	3312.7	3973.9	4364.5	5218.1	7174.1	13477.4	20748.7	28835.0	38213.3
0°	1993.9	2618.8	3322.5	3984.0	4371.0	5233.9	7213.7	13617.0	20922.5	29046.0	38481.3
-2.5°	1988.0	2610.9	3312.7	3973.9	4364.5	5218.1	7174.1	13477.4	20748.7	28835.0	38213.3
-5°	1970.3	2587.4	3283.4	3943.6	4345.1	5170.8	7055.7	13059.6	20228.8	28204.0	37412.4
-7.5°	1940.9	2548.2	3234.8	3893.4	4312.9	5092.4	6859.3	12366.8	19367.2	27159.2	36087.6
-10°	1899.8	2493.5	3166.9	3823.3	4268.1	4983.1	6586.0	11404.1	18171.2	25710.6	34253.5
-12.5°	1847.3	2423.6	3080.1	3733.8	4210.8	4843.8	6237.7	10178.3	16650.4	23871.7	31929.6
-15°	1783.5	2338.6	2974.8	3625.2	4141.4	4675.0	5816.5	8698.0	14816.7	21658.4	29138.9
-17.5°	1708.5	2239.0	2851.3	3498.1	4060.1	4477.8	5324.9	7139.3	12798.9	19273.9	26343.8
-20°	1622.7	2125.0	2710.1	3352.8	3955.7	4318.1	5029.8	6533.6	10679.9	16661.3	23206.1



REPORT NUMBER: P699880 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-5S-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1526.3	1997.0	2559.3	3181.7	3778.5	4205.6	4757.9	5859.1	8325.3	13765.3	19857.0
-25°	1428.5	1878.7	2404.1	2990.7	3583.3	4081.7	4459.2	5184.1	6761.0	10976.9	16462.7
-27.5°	1331.0	1750.1	2234.6	2782.6	3370.7	3920.9	4265.2	4835.1	5900.6	7991.8	12914.3
-30°	1225.4	1611.0	2051.5	2564.8	3130.2	3673.3	4109.2	4461.2	5123.5	6469.9	9514.2
-32.5°	1112.0	1463.8	1878.7	2351.5	2869.9	3409.3	3914.0	4233.3	4698.4	5429.0	6816.3
-35°	1000.7	1331.0	1705.2	2125.0	2596.8	3117.6	3613.9	4045.3	4317.2	4842.6	5655.5
-37.5°	898.2	1190.5	1521.9	1904.1	2338.6	2804.9	3297.3	3752.2	4107.4	4359.6	4891.0
-40°	790.2	1042.8	1353.0	1695.3	2068.1	2493.5	2947.2	3401.3	3821.9	4128.3	4359.6
-42.5°	680.0	918.0	1184.7	1477.4	1820.9	2191.0	2587.4	3019.0	3435.6	3821.9	4107.4
-45°	588.0	788.8	1015.3	1287.4	1577.2	1897.0	2252.9	2618.8	3019.0	3401.3	3752.2
-47.5°	492.4	662.5	869.6	1091.1	1349.5	1627.5	1922.4	2252.9	2587.4	2947.2	3297.3
-50°	401.7	554.3	719.0	918.4	1132.3	1370.3	1627.5	1897.0	2191.0	2493.5	2804.9
-52.5°	333.0	442.8	591.8	751.4	934.8	1132.3	1349.5	1577.2	1820.9	2068.1	2338.6
-55°	262.3	357.8	467.7	604.4	751.4	918.4	1091.1	1287.4	1477.4	1695.3	1904.1
-57.5°	207.1	278.8	366.2	467.7	591.8	719.0	869.6	1015.3	1184.7	1353.0	1521.9
-60°	160.6	212.2	278.8	357.8	442.8	554.3	662.5	788.8	918.0	1042.8	1190.5
-62.5°	117.3	160.6	207.1	262.3	333.0	401.7	492.4	588.0	680.0	790.2	898.2
-65°	92.4	114.7	150.4	191.7	231.9	291.8	352.3	410.6	490.0	569.8	645.9
-67.5°	67.0	87.1	106.8	130.0	166.2	201.4	235.3	287.2	337.5	385.7	437.7
-70°	54.6	61.4	76.7	93.8	110.4	130.9	161.1	190.2	218.1	249.9	290.5
-72.5°	44.6	50.6	56.5	62.2	75.7	89.8	103.4	116.5	135.9	159.2	181.3
-75°	35.5	39.8	44.7	49.6	54.4	59.0	64.5	75.7	86.4	96.7	106.4
-77.5°	27.1	30.7	34.2	37.5	40.9	44.8	48.5	52.0	55.4	58.7	61.8
-80°	19.2	21.5	24.2	27.0	29.6	32.1	34.6	37.0	39.2	41.6	44.1
-82.5°	12.3	14.1	15.7	17.4	18.9	20.5	22.0	23.8	25.5	27.1	28.7
-85°	6.1	6.6	7.7	8.8	9.8	10.9	11.9	12.8	13.7	14.6	15.4
-87.5°	3.0	3.3	3.5	3.8	4.0	4.2	4.5	4.7	4.9	5.1	5.2
-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: P699880 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-5S-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°	5.4	5.6	5.7	5.9	6.0	6.1	6.2	6.3	6.4	6.4	6.5
85°	16.2	16.9	17.6	18.2	18.8	19.3	19.8	20.2	20.6	20.9	21.1
82.5°	30.1	31.5	32.7	33.9	35.0	36.0	36.9	37.7	38.4	39.0	39.4
80°	46.4	48.6	50.6	52.5	54.3	55.9	57.3	58.6	59.7	60.6	61.4
77.5°	67.8	75.0	81.8	88.0	93.8	99.0	103.7	107.9	111.6	114.7	117.2
75°	115.7	126.8	142.5	157.1	170.5	182.8	193.9	203.7	212.2	219.5	225.4
72.5°	202.3	222.0	243.0	270.4	295.7	318.7	339.4	357.8	373.9	387.5	398.8
70°	328.9	365.1	399.0	436.2	479.4	518.8	554.3	585.9	613.4	636.9	656.1
67.5°	502.4	563.3	620.4	673.4	731.4	788.8	840.5	886.5	926.7	960.8	988.9
65°	726.0	813.4	895.3	971.6	1042.8	1123.0	1195.4	1259.9	1316.1	1364.0	1403.4
62.5°	1000.7	1112.0	1225.4	1331.0	1428.5	1526.3	1622.7	1708.5	1783.5	1847.3	1899.8
60°	1331.0	1463.8	1611.0	1750.1	1878.7	1997.0	2125.0	2239.0	2338.6	2423.6	2493.5
57.5°	1705.2	1878.7	2051.5	2234.6	2404.1	2559.3	2710.1	2851.3	2974.8	3080.1	3166.9
55°	2125.0	2351.5	2564.8	2782.6	2990.7	3181.7	3352.8	3498.1	3625.2	3733.8	3823.3
52.5°	2596.8	2869.9	3130.2	3370.7	3583.3	3778.5	3955.7	4060.1	4141.4	4210.8	4268.1
50°	3117.6	3409.3	3673.3	3920.9	4081.7	4205.6	4318.1	4477.8	4675.0	4843.8	4983.1
47.5°	3613.9	3914.0	4109.2	4265.2	4459.2	4757.9	5029.8	5324.9	5816.5	6237.7	6586.0
45°	4045.3	4233.3	4461.2	4835.1	5184.1	5859.1	6533.6	7139.3	8698.0	10178.3	11404.1
42.5°	4317.2	4698.4	5123.5	5900.6	6761.0	8325.3	10679.9	12798.9	14816.7	16650.4	18171.2
40°	4842.6	5429.0	6469.9	7991.8	10976.9	13765.3	16661.3	19273.9	21658.4	23871.7	25710.6
37.5°	5655.5	6816.3	9514.2	12914.3	16462.7	19857.0	23206.1	26343.8	29138.9	31929.6	34253.5
35°	6932.6	10283.9	14162.4	18297.9	22341.2	26390.3	30297.3	34232.3	37732.3	40891.5	43564.2
32.5°	10283.9	14615.0	19227.1	23930.9	28562.4	33524.6	38188.6	42658.4	46663.2	50653.9	54444.0
30°	14162.4	19227.1	24465.6	29763.8	35500.1	41031.6	46326.6	51988.6	57634.3	63037.4	68869.8
27.5°	18297.9	23930.9	29763.8	36165.4	42484.8	48619.7	56016.6	63397.7	72024.7	79591.9	85774.4
25°	22341.2	28562.4	35500.1	42484.8	49607.4	58069.7	67897.2	78238.7	87349.3	95348.6	102057.9
22.5°	26390.3	33524.6	41031.6	48619.7	58069.7	69418.4	81358.9	92159.9	101934.9	110542.6	118332.7
20°	30297.3	38188.6	46326.6	56016.6	67897.2	81358.9	93791.5	105305.3	116009.7	126656.8	136283.3
17.5°	34232.3	42658.4	51988.6	63397.7	78238.7	92159.9	105305.3	118044.7	130972.3	144750.9	157431.8
15°	37732.3	46663.2	57634.3	72024.7	87349.3	101934.9	116009.7	130972.3	147655.3	164284.9	180109.4
12.5°	40891.5	50653.9	63037.4	79591.9	95348.6	110542.6	126656.8	144750.9	164284.9	183952.9	199230.5
10°	43564.2	54444.0	68869.8	85774.4	102057.9	118332.7	136283.3	157431.8	180109.4	199230.5	214369.4
7.5°	45678.2	57450.1	73511.6	90714.8	107420.9	125044.2	145576.4	169025.4	192140.4	211233.0	222201.3
5°	47208.0	59630.2	76887.2	94320.0	111352.0	129992.1	152480.6	177795.1	200739.1	217932.7	228186.5
2.5°	48134.0	60952.0	78937.7	96515.4	113753.4	133027.7	156740.9	183251.0	206153.1	221187.7	231544.1
0°	48444.1	61394.9	79625.5	97252.7	114561.3	134051.2	158181.9	185104.8	208005.2	222114.1	232643.7
-2.5°	48134.0	60952.0	78937.7	96515.4	113753.4	133027.7	156740.9	183251.0	206153.1	221187.7	231544.1
-5°	47208.0	59630.2	76887.2	94320.0	111352.0	129992.1	152480.6	177795.1	200739.1	217932.7	228186.5
-7.5°	45678.2	57450.1	73511.6	90714.8	107420.9	125044.2	145576.4	169025.4	192140.4	211233.0	222201.3
-10°	43564.2	54444.0	68869.8	85774.4	102057.9	118332.7	136283.3	157431.8	180109.4	199230.5	214369.4
-12.5°	40891.5	50653.9	63037.4	79591.9	95348.6	110542.6	126656.8	144750.9	164284.9	183952.9	199230.5
-15°	37732.3	46663.2	57634.3	72024.7	87349.3	101934.9	116009.7	130972.3	147655.3	164284.9	180109.4
-17.5°	34232.3	42658.4	51988.6	63397.7	78238.7	92159.9	105305.3	118044.7	130972.3	144750.9	157431.8
-20°	30297.3	38188.6	46326.6	56016.6	67897.2	81358.9	93791.5	105305.3	116009.7	126656.8	136283.3



REPORT NUMBER: P699880 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-5S-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	26390.3	33524.6	41031.6	48619.7	58069.7	69418.4	81358.9	92159.9	101934.9	110542.6	118332.7
-25°	22341.2	28562.4	35500.1	42484.8	49607.4	58069.7	67897.2	78238.7	87349.3	95348.6	102057.9
-27.5°	18297.9	23930.9	29763.8	36165.4	42484.8	48619.7	56016.6	63397.7	72024.7	79591.9	85774.4
-30°	14162.4	19227.1	24465.6	29763.8	35500.1	41031.6	46326.6	51988.6	57634.3	63037.4	68869.8
-32.5°	10283.9	14615.0	19227.1	23930.9	28562.4	33524.6	38188.6	42658.4	46663.2	50653.9	54444.0
-35°	6932.6	10283.9	14162.4	18297.9	22341.2	26390.3	30297.3	34232.3	37732.3	40891.5	43564.2
-37.5°	5655.5	6816.3	9514.2	12914.3	16462.7	19857.0	23206.1	26343.8	29138.9	31929.6	34253.5
-40°	4842.6	5429.0	6469.9	7991.8	10976.9	13765.3	16661.3	19273.9	21658.4	23871.7	25710.6
-42.5°	4317.2	4698.4	5123.5	5900.6	6761.0	8325.3	10679.9	12798.9	14816.7	16650.4	18171.2
-45°	4045.3	4233.3	4461.2	4835.1	5184.1	5859.1	6533.6	7139.3	8698.0	10178.3	11404.1
-47.5°	3613.9	3914.0	4109.2	4265.2	4459.2	4757.9	5029.8	5324.9	5816.5	6237.7	6586.0
-50°	3117.6	3409.3	3673.3	3920.9	4081.7	4205.6	4318.1	4477.8	4675.0	4843.8	4983.1
-52.5°	2596.8	2869.9	3130.2	3370.7	3583.3	3778.5	3955.7	4060.1	4141.4	4210.8	4268.1
-55°	2125.0	2351.5	2564.8	2782.6	2990.7	3181.7	3352.8	3498.1	3625.2	3733.8	3823.3
-57.5°	1705.2	1878.7	2051.5	2234.6	2404.1	2559.3	2710.1	2851.3	2974.8	3080.1	3166.9
-60°	1331.0	1463.8	1611.0	1750.1	1878.7	1997.0	2125.0	2239.0	2338.6	2423.6	2493.5
-62.5°	1000.7	1112.0	1225.4	1331.0	1428.5	1526.3	1622.7	1708.5	1783.5	1847.3	1899.8
-65°	726.0	813.4	895.3	971.6	1042.8	1123.0	1195.4	1259.9	1316.1	1364.0	1403.4
-67.5°	502.4	563.3	620.4	673.4	731.4	788.8	840.5	886.5	926.7	960.8	988.9
-70°	328.9	365.1	399.0	436.2	479.4	518.8	554.3	585.9	613.4	636.9	656.1
-72.5°	202.3	222.0	243.0	270.4	295.7	318.7	339.4	357.8	373.9	387.5	398.8
-75°	115.7	126.8	142.5	157.1	170.5	182.8	193.9	203.7	212.2	219.5	225.4
-77.5°	67.8	75.0	81.8	88.0	93.8	99.0	103.7	107.9	111.6	114.7	117.2
-80°	46.4	48.6	50.6	52.5	54.3	55.9	57.3	58.6	59.7	60.6	61.4
-82.5°	30.1	31.5	32.7	33.9	35.0	36.0	36.9	37.7	38.4	39.0	39.4
-85°	16.2	16.9	17.6	18.2	18.8	19.3	19.8	20.2	20.6	20.9	21.1
-87.5°	5.4	5.6	5.7	5.9	6.0	6.1	6.2	6.3	6.4	6.4	6.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699880 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-5S-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°	6.5	6.6	6.6	6.6	6.6	6.6	6.5	6.5	6.4	6.4	6.3
85°	21.3	21.5	21.6	21.6	21.6	21.5	21.3	21.1	20.9	20.6	20.2
82.5°	39.8	40.1	40.2	40.3	40.2	40.1	39.8	39.4	39.0	38.4	37.7
80°	62.0	62.5	62.7	62.8	62.7	62.5	62.0	61.4	60.6	59.7	58.6
77.5°	119.2	120.7	121.5	121.8	121.5	120.7	119.2	117.2	114.7	111.6	107.9
75°	230.1	233.4	235.4	236.1	235.4	233.4	230.1	225.4	219.5	212.2	203.7
72.5°	407.5	413.8	417.5	418.8	417.5	413.8	407.5	398.8	387.5	373.9	357.8
70°	671.1	681.9	688.3	690.5	688.3	681.9	671.1	656.1	636.9	613.4	585.9
67.5°	1010.8	1026.5	1036.0	1039.1	1036.0	1026.5	1010.8	988.9	960.8	926.7	886.5
65°	1434.2	1456.2	1469.5	1473.9	1469.5	1456.2	1434.2	1403.4	1364.0	1316.1	1259.9
62.5°	1940.9	1970.3	1988.0	1993.9	1988.0	1970.3	1940.9	1899.8	1847.3	1783.5	1708.5
60°	2548.2	2587.4	2610.9	2618.8	2610.9	2587.4	2548.2	2493.5	2423.6	2338.6	2239.0
57.5°	3234.8	3283.4	3312.7	3322.5	3312.7	3283.4	3234.8	3166.9	3080.1	2974.8	2851.3
55°	3893.4	3943.6	3973.9	3984.0	3973.9	3943.6	3893.4	3823.3	3733.8	3625.2	3498.1
52.5°	4312.9	4345.1	4364.5	4371.0	4364.5	4345.1	4312.9	4268.1	4210.8	4141.4	4060.1
50°	5092.4	5170.8	5218.1	5233.9	5218.1	5170.8	5092.4	4983.1	4843.8	4675.0	4477.8
47.5°	6859.3	7055.7	7174.1	7213.7	7174.1	7055.7	6859.3	6586.0	6237.7	5816.5	5324.9
45°	12366.8	13059.6	13477.4	13617.0	13477.4	13059.6	12366.8	11404.1	10178.3	8698.0	7139.3
42.5°	19367.2	20228.8	20748.7	20922.5	20748.7	20228.8	19367.2	18171.2	16650.4	14816.7	12798.9
40°	27159.2	28204.0	28835.0	29046.0	28835.0	28204.0	27159.2	25710.6	23871.7	21658.4	19273.9
37.5°	36087.6	37412.4	38213.3	38481.3	38213.3	37412.4	36087.6	34253.5	31929.6	29138.9	26343.8
35°	45678.2	47208.0	48134.0	48444.1	48134.0	47208.0	45678.2	43564.2	40891.5	37732.3	34232.3
32.5°	57450.1	59630.2	60952.0	61394.9	60952.0	59630.2	57450.1	54444.0	50653.9	46663.2	42658.4
30°	73511.6	76887.2	78937.7	79625.5	78937.7	76887.2	73511.6	68869.8	63037.4	57634.3	51988.6
27.5°	90714.8	94320.0	96515.4	97252.7	96515.4	94320.0	90714.8	85774.4	79591.9	72024.7	63397.7
25°	107420.9	111352.0	113753.4	114561.3	113753.4	111352.0	107420.9	102057.9	95348.6	87349.3	78238.7
22.5°	125044.2	129992.1	133027.7	134051.2	133027.7	129992.1	125044.2	118332.7	110542.6	101934.9	92159.9
20°	145576.4	152480.6	156740.9	158181.9	156740.9	152480.6	145576.4	136283.3	126656.8	116009.7	105305.3
17.5°	169025.4	177795.1	183251.0	185104.8	183251.0	177795.1	169025.4	157431.8	144750.9	130972.3	118044.7
15°	192140.4	200739.1	206153.1	208005.2	206153.1	200739.1	192140.4	180109.4	164284.9	147655.3	130972.3
12.5°	211233.0	217932.7	221187.7	222114.1	221187.7	217932.7	211233.0	199230.5	183952.9	164284.9	144750.9
10°	222201.3	228186.5	231544.1	232643.7	231544.1	228186.5	222201.3	214369.4	199230.5	180109.4	157431.8
7.5°	230509.2	234997.4	237877.7	238868.5	237877.7	234997.4	230509.2	222201.3	211233.0	192140.4	169025.4
5°	234997.4	239932.9	242990.1	244116.0	242990.1	239932.9	234997.4	228186.5	217932.7	200739.1	177795.1
2.5°	237877.7	242990.1	245290.2	245669.5	245290.2	242990.1	237877.7	231544.1	221187.7	206153.1	183251.0
0°	238868.5	244116.0	245669.5	245962.8	245669.5	244116.0	238868.5	232643.7	222114.1	208005.2	185104.8
-2.5°	237877.7	242990.1	245290.2	245669.5	245290.2	242990.1	237877.7	231544.1	221187.7	206153.1	183251.0
-5°	234997.4	239932.9	242990.1	244116.0	242990.1	239932.9	234997.4	228186.5	217932.7	200739.1	177795.1
-7.5°	230509.2	234997.4	237877.7	238868.5	237877.7	234997.4	230509.2	222201.3	211233.0	192140.4	169025.4
-10°	222201.3	228186.5	231544.1	232643.7	231544.1	228186.5	222201.3	214369.4	199230.5	180109.4	157431.8
-12.5°	211233.0	217932.7	221187.7	222114.1	221187.7	217932.7	211233.0	199230.5	183952.9	164284.9	144750.9
-15°	192140.4	200739.1	206153.1	208005.2	206153.1	200739.1	192140.4	180109.4	164284.9	147655.3	130972.3
-17.5°	169025.4	177795.1	183251.0	185104.8	183251.0	177795.1	169025.4	157431.8	144750.9	130972.3	118044.7
-20°	145576.4	152480.6	156740.9	158181.9	156740.9	152480.6	145576.4	136283.3	126656.8	116009.7	105305.3



REPORT NUMBER: P699880 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-5S-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	125044.2	129992.1	133027.7	134051.2	133027.7	129992.1	125044.2	118332.7	110542.6	101934.9	92159.9
-25°	107420.9	111352.0	113753.4	114561.3	113753.4	111352.0	107420.9	102057.9	95348.6	87349.3	78238.7
-27.5°	90714.8	94320.0	96515.4	97252.7	96515.4	94320.0	90714.8	85774.4	79591.9	72024.7	63397.7
-30°	73511.6	76887.2	78937.7	79625.5	78937.7	76887.2	73511.6	68869.8	63037.4	57634.3	51988.6
-32.5°	57450.1	59630.2	60952.0	61394.9	60952.0	59630.2	57450.1	54444.0	50653.9	46663.2	42658.4
-35°	45678.2	47208.0	48134.0	48444.1	48134.0	47208.0	45678.2	43564.2	40891.5	37732.3	34232.3
-37.5°	36087.6	37412.4	38213.3	38481.3	38213.3	37412.4	36087.6	34253.5	31929.6	29138.9	26343.8
-40°	27159.2	28204.0	28835.0	29046.0	28835.0	28204.0	27159.2	25710.6	23871.7	21658.4	19273.9
-42.5°	19367.2	20228.8	20748.7	20922.5	20748.7	20228.8	19367.2	18171.2	16650.4	14816.7	12798.9
-45°	12366.8	13059.6	13477.4	13617.0	13477.4	13059.6	12366.8	11404.1	10178.3	8698.0	7139.3
-47.5°	6859.3	7055.7	7174.1	7213.7	7174.1	7055.7	6859.3	6586.0	6237.7	5816.5	5324.9
-50°	5092.4	5170.8	5218.1	5233.9	5218.1	5170.8	5092.4	4983.1	4843.8	4675.0	4477.8
-52.5°	4312.9	4345.1	4364.5	4371.0	4364.5	4345.1	4312.9	4268.1	4210.8	4141.4	4060.1
-55°	3893.4	3943.6	3973.9	3984.0	3973.9	3943.6	3893.4	3823.3	3733.8	3625.2	3498.1
-57.5°	3234.8	3283.4	3312.7	3322.5	3312.7	3283.4	3234.8	3166.9	3080.1	2974.8	2851.3
-60°	2548.2	2587.4	2610.9	2618.8	2610.9	2587.4	2548.2	2493.5	2423.6	2338.6	2239.0
-62.5°	1940.9	1970.3	1988.0	1993.9	1988.0	1970.3	1940.9	1899.8	1847.3	1783.5	1708.5
-65°	1434.2	1456.2	1469.5	1473.9	1469.5	1456.2	1434.2	1403.4	1364.0	1316.1	1259.9
-67.5°	1010.8	1026.5	1036.0	1039.1	1036.0	1026.5	1010.8	988.9	960.8	926.7	886.5
-70°	671.1	681.9	688.3	690.5	688.3	681.9	671.1	656.1	636.9	613.4	585.9
-72.5°	407.5	413.8	417.5	418.8	417.5	413.8	407.5	398.8	387.5	373.9	357.8
-75°	230.1	233.4	235.4	236.1	235.4	233.4	230.1	225.4	219.5	212.2	203.7
-77.5°	119.2	120.7	121.5	121.8	121.5	120.7	119.2	117.2	114.7	111.6	107.9
-80°	62.0	62.5	62.7	62.8	62.7	62.5	62.0	61.4	60.6	59.7	58.6
-82.5°	39.8	40.1	40.2	40.3	40.2	40.1	39.8	39.4	39.0	38.4	37.7
-85°	21.3	21.5	21.6	21.6	21.6	21.5	21.3	21.1	20.9	20.6	20.2
-87.5°	6.5	6.6	6.6	6.6	6.6	6.6	6.5	6.5	6.4	6.4	6.3
-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: P699880 (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°	6.2	6.1	6.0	5.9	5.7	5.6	5.4	5.2	5.1	4.9	4.7
85°	19.8	19.3	18.8	18.2	17.6	16.9	16.2	15.4	14.6	13.7	12.8
82.5°	36.9	36.0	35.0	33.9	32.7	31.5	30.1	28.7	27.1	25.5	23.8
80°	57.3	55.9	54.3	52.5	50.6	48.6	46.4	44.1	41.6	39.2	37.0
77.5°	103.7	99.0	93.8	88.0	81.8	75.0	67.8	61.8	58.7	55.4	52.0
75°	193.9	182.8	170.5	157.1	142.5	126.8	115.7	106.4	96.7	86.4	75.7
72.5°	339.4	318.7	295.7	270.4	243.0	222.0	202.3	181.3	159.2	135.9	116.5
70°	554.3	518.8	479.4	436.2	399.0	365.1	328.9	290.5	249.9	218.1	190.2
67.5°	840.5	788.8	731.4	673.4	620.4	563.3	502.4	437.7	385.7	337.5	287.2
65°	1195.4	1123.0	1042.8	971.6	895.3	813.4	726.0	645.9	569.8	490.0	410.6
62.5°	1622.7	1526.3	1428.5	1331.0	1225.4	1112.0	1000.7	898.2	790.2	680.0	588.0
60°	2125.0	1997.0	1878.7	1750.1	1611.0	1463.8	1331.0	1190.5	1042.8	918.0	788.8
57.5°	2710.1	2559.3	2404.1	2234.6	2051.5	1878.7	1705.2	1521.9	1353.0	1184.7	1015.3
55°	3352.8	3181.7	2990.7	2782.6	2564.8	2351.5	2125.0	1904.1	1695.3	1477.4	1287.4
52.5°	3955.7	3778.5	3583.3	3370.7	3130.2	2869.9	2596.8	2338.6	2068.1	1820.9	1577.2
50°	4318.1	4205.6	4081.7	3920.9	3673.3	3409.3	3117.6	2804.9	2493.5	2191.0	1897.0
47.5°	5029.8	4757.9	4459.2	4265.2	4109.2	3914.0	3613.9	3297.3	2947.2	2587.4	2252.9
45°	6533.6	5859.1	5184.1	4835.1	4461.2	4233.3	4045.3	3752.2	3401.3	3019.0	2618.8
42.5°	10679.9	8325.3	6761.0	5900.6	5123.5	4698.4	4317.2	4107.4	3821.9	3435.6	3019.0
40°	16661.3	13765.3	10976.9	7991.8	6469.9	5429.0	4842.6	4359.6	4128.3	3821.9	3401.3
37.5°	23206.1	19857.0	16462.7	12914.3	9514.2	6816.3	5655.5	4891.0	4359.6	4107.4	3752.2
35°	30297.3	26390.3	22341.2	18297.9	14162.4	10283.9	6932.6	5655.5	4842.6	4317.2	4045.3
32.5°	38188.6	33524.6	28562.4	23930.9	19227.1	14615.0	10283.9	6816.3	5429.0	4698.4	4233.3
30°	46326.6	41031.6	35500.1	29763.8	24465.6	19227.1	14162.4	9514.2	6469.9	5123.5	4461.2
27.5°	56016.6	48619.7	42484.8	36165.4	29763.8	23930.9	18297.9	12914.3	7991.8	5900.6	4835.1
25°	67897.2	58069.7	49607.4	42484.8	35500.1	28562.4	22341.2	16462.7	10976.9	6761.0	5184.1
22.5°	81358.9	69418.4	58069.7	48619.7	41031.6	33524.6	26390.3	19857.0	13765.3	8325.3	5859.1
20°	93791.5	81358.9	67897.2	56016.6	46326.6	38188.6	30297.3	23206.1	16661.3	10679.9	6533.6
17.5°	105305.3	92159.9	78238.7	63397.7	51988.6	42658.4	34232.3	26343.8	19273.9	12798.9	7139.3
15°	116009.7	101934.9	87349.3	72024.7	57634.3	46663.2	37732.3	29138.9	21658.4	14816.7	8698.0
12.5°	126656.8	110542.6	95348.6	79591.9	63037.4	50653.9	40891.5	31929.6	23871.7	16650.4	10178.3
10°	136283.3	118332.7	102057.9	85774.4	68869.8	54444.0	43564.2	34253.5	25710.6	18171.2	11404.1
7.5°	145576.4	125044.2	107420.9	90714.8	73511.6	57450.1	45678.2	36087.6	27159.2	19367.2	12366.8
5°	152480.6	129992.1	111352.0	94320.0	76887.2	59630.2	47208.0	37412.4	28204.0	20228.8	13059.6
2.5°	156740.9	133027.7	113753.4	96515.4	78937.7	60952.0	48134.0	38213.3	28835.0	20748.7	13477.4
0°	158181.9	134051.2	114561.3	97252.7	79625.5	61394.9	48444.1	38481.3	29046.0	20922.5	13617.0
-2.5°	156740.9	133027.7	113753.4	96515.4	78937.7	60952.0	48134.0	38213.3	28835.0	20748.7	13477.4
-5°	152480.6	129992.1	111352.0	94320.0	76887.2	59630.2	47208.0	37412.4	28204.0	20228.8	13059.6
-7.5°	145576.4	125044.2	107420.9	90714.8	73511.6	57450.1	45678.2	36087.6	27159.2	19367.2	12366.8
-10°	136283.3	118332.7	102057.9	85774.4	68869.8	54444.0	43564.2	34253.5	25710.6	18171.2	11404.1
-12.5°	126656.8	110542.6	95348.6	79591.9	63037.4	50653.9	40891.5	31929.6	23871.7	16650.4	10178.3
-15°	116009.7	101934.9	87349.3	72024.7	57634.3	46663.2	37732.3	29138.9	21658.4	14816.7	8698.0
-17.5°	105305.3	92159.9	78238.7	63397.7	51988.6	42658.4	34232.3	26343.8	19273.9	12798.9	7139.3
-20°	93791.5	81358.9	67897.2	56016.6	46326.6	38188.6	30297.3	23206.1	16661.3	10679.9	6533.6



REPORT NUMBER: P699880 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-5S-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	81358.9	69418.4	58069.7	48619.7	41031.6	33524.6	26390.3	19857.0	13765.3	8325.3	5859.1
-25°	67897.2	58069.7	49607.4	42484.8	35500.1	28562.4	22341.2	16462.7	10976.9	6761.0	5184.1
-27.5°	56016.6	48619.7	42484.8	36165.4	29763.8	23930.9	18297.9	12914.3	7991.8	5900.6	4835.1
-30°	46326.6	41031.6	35500.1	29763.8	24465.6	19227.1	14162.4	9514.2	6469.9	5123.5	4461.2
-32.5°	38188.6	33524.6	28562.4	23930.9	19227.1	14615.0	10283.9	6816.3	5429.0	4698.4	4233.3
-35°	30297.3	26390.3	22341.2	18297.9	14162.4	10283.9	6932.6	5655.5	4842.6	4317.2	4045.3
-37.5°	23206.1	19857.0	16462.7	12914.3	9514.2	6816.3	5655.5	4891.0	4359.6	4107.4	3752.2
-40°	16661.3	13765.3	10976.9	7991.8	6469.9	5429.0	4842.6	4359.6	4128.3	3821.9	3401.3
-42.5°	10679.9	8325.3	6761.0	5900.6	5123.5	4698.4	4317.2	4107.4	3821.9	3435.6	3019.0
-45°	6533.6	5859.1	5184.1	4835.1	4461.2	4233.3	4045.3	3752.2	3401.3	3019.0	2618.8
-47.5°	5029.8	4757.9	4459.2	4265.2	4109.2	3914.0	3613.9	3297.3	2947.2	2587.4	2252.9
-50°	4318.1	4205.6	4081.7	3920.9	3673.3	3409.3	3117.6	2804.9	2493.5	2191.0	1897.0
-52.5°	3955.7	3778.5	3583.3	3370.7	3130.2	2869.9	2596.8	2338.6	2068.1	1820.9	1577.2
-55°	3352.8	3181.7	2990.7	2782.6	2564.8	2351.5	2125.0	1904.1	1695.3	1477.4	1287.4
-57.5°	2710.1	2559.3	2404.1	2234.6	2051.5	1878.7	1705.2	1521.9	1353.0	1184.7	1015.3
-60°	2125.0	1997.0	1878.7	1750.1	1611.0	1463.8	1331.0	1190.5	1042.8	918.0	788.8
-62.5°	1622.7	1526.3	1428.5	1331.0	1225.4	1112.0	1000.7	898.2	790.2	680.0	588.0
-65°	1195.4	1123.0	1042.8	971.6	895.3	813.4	726.0	645.9	569.8	490.0	410.6
-67.5°	840.5	788.8	731.4	673.4	620.4	563.3	502.4	437.7	385.7	337.5	287.2
-70°	554.3	518.8	479.4	436.2	399.0	365.1	328.9	290.5	249.9	218.1	190.2
-72.5°	339.4	318.7	295.7	270.4	243.0	222.0	202.3	181.3	159.2	135.9	116.5
-75°	193.9	182.8	170.5	157.1	142.5	126.8	115.7	106.4	96.7	86.4	75.7
-77.5°	103.7	99.0	93.8	88.0	81.8	75.0	67.8	61.8	58.7	55.4	52.0
-80°	57.3	55.9	54.3	52.5	50.6	48.6	46.4	44.1	41.6	39.2	37.0
-82.5°	36.9	36.0	35.0	33.9	32.7	31.5	30.1	28.7	27.1	25.5	23.8
-85°	19.8	19.3	18.8	18.2	17.6	16.9	16.2	15.4	14.6	13.7	12.8
-87.5°	6.2	6.1	6.0	5.9	5.7	5.6	5.4	5.2	5.1	4.9	4.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699880 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-5S-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°	4.5	4.2	4.0	3.8	3.5	3.3	3.0	2.8	2.5	2.3	2.0
85°	11.9	10.9	9.8	8.8	7.7	6.6	6.1	5.6	5.0	4.5	4.0
82.5°	22.0	20.5	18.9	17.4	15.7	14.1	12.3	10.6	8.8	7.0	5.9
80°	34.6	32.1	29.6	27.0	24.2	21.5	19.2	16.9	14.5	12.0	9.6
77.5°	48.5	44.8	40.9	37.5	34.2	30.7	27.1	23.5	20.1	17.1	14.0
75°	64.5	59.0	54.4	49.6	44.7	39.8	35.5	31.2	26.7	22.2	18.4
72.5°	103.4	89.8	75.7	62.2	56.5	50.6	44.6	38.8	33.6	28.4	23.0
70°	161.1	130.9	110.4	93.8	76.7	61.4	54.6	47.6	40.5	34.4	28.4
67.5°	235.3	201.4	166.2	130.0	106.8	87.1	67.0	56.6	48.6	40.5	33.6
65°	352.3	291.8	231.9	191.7	150.4	114.7	92.4	69.6	56.6	47.6	38.8
62.5°	492.4	401.7	333.0	262.3	207.1	160.6	117.3	92.4	67.0	54.6	44.6
60°	662.5	554.3	442.8	357.8	278.8	212.2	160.6	114.7	87.1	61.4	50.6
57.5°	869.6	719.0	591.8	467.7	366.2	278.8	207.1	150.4	106.8	76.7	56.5
55°	1091.1	918.4	751.4	604.4	467.7	357.8	262.3	191.7	130.0	93.8	62.2
52.5°	1349.5	1132.3	934.8	751.4	591.8	442.8	333.0	231.9	166.2	110.4	75.7
50°	1627.5	1370.3	1132.3	918.4	719.0	554.3	401.7	291.8	201.4	130.9	89.8
47.5°	1922.4	1627.5	1349.5	1091.1	869.6	662.5	492.4	352.3	235.3	161.1	103.4
45°	2252.9	1897.0	1577.2	1287.4	1015.3	788.8	588.0	410.6	287.2	190.2	116.5
42.5°	2587.4	2191.0	1820.9	1477.4	1184.7	918.0	680.0	490.0	337.5	218.1	135.9
40°	2947.2	2493.5	2068.1	1695.3	1353.0	1042.8	790.2	569.8	385.7	249.9	159.2
37.5°	3297.3	2804.9	2338.6	1904.1	1521.9	1190.5	898.2	645.9	437.7	290.5	181.3
35°	3613.9	3117.6	2596.8	2125.0	1705.2	1331.0	1000.7	726.0	502.4	328.9	202.3
32.5°	3914.0	3409.3	2869.9	2351.5	1878.7	1463.8	1112.0	813.4	563.3	365.1	222.0
30°	4109.2	3673.3	3130.2	2564.8	2051.5	1611.0	1225.4	895.3	620.4	399.0	243.0
27.5°	4265.2	3920.9	3370.7	2782.6	2234.6	1750.1	1331.0	971.6	673.4	436.2	270.4
25°	4459.2	4081.7	3583.3	2990.7	2404.1	1878.7	1428.5	1042.8	731.4	479.4	295.7
22.5°	4757.9	4205.6	3778.5	3181.7	2559.3	1997.0	1526.3	1123.0	788.8	518.8	318.7
20°	5029.8	4318.1	3955.7	3352.8	2710.1	2125.0	1622.7	1195.4	840.5	554.3	339.4
17.5°	5324.9	4477.8	4060.1	3498.1	2851.3	2239.0	1708.5	1259.9	886.5	585.9	357.8
15°	5816.5	4675.0	4141.4	3625.2	2974.8	2338.6	1783.5	1316.1	926.7	613.4	373.9
12.5°	6237.7	4843.8	4210.8	3733.8	3080.1	2423.6	1847.3	1364.0	960.8	636.9	387.5
10°	6586.0	4983.1	4268.1	3823.3	3166.9	2493.5	1899.8	1403.4	988.9	656.1	398.8
7.5°	6859.3	5092.4	4312.9	3893.4	3234.8	2548.2	1940.9	1434.2	1010.8	671.1	407.5
5°	7055.7	5170.8	4345.1	3943.6	3283.4	2587.4	1970.3	1456.2	1026.5	681.9	413.8
2.5°	7174.1	5218.1	4364.5	3973.9	3312.7	2610.9	1988.0	1469.5	1036.0	688.3	417.5
0°	7213.7	5233.9	4371.0	3984.0	3322.5	2618.8	1993.9	1473.9	1039.1	690.5	418.8
-2.5°	7174.1	5218.1	4364.5	3973.9	3312.7	2610.9	1988.0	1469.5	1036.0	688.3	417.5
-5°	7055.7	5170.8	4345.1	3943.6	3283.4	2587.4	1970.3	1456.2	1026.5	681.9	413.8
-7.5°	6859.3	5092.4	4312.9	3893.4	3234.8	2548.2	1940.9	1434.2	1010.8	671.1	407.5
-10°	6586.0	4983.1	4268.1	3823.3	3166.9	2493.5	1899.8	1403.4	988.9	656.1	398.8
-12.5°	6237.7	4843.8	4210.8	3733.8	3080.1	2423.6	1847.3	1364.0	960.8	636.9	387.5
-15°	5816.5	4675.0	4141.4	3625.2	2974.8	2338.6	1783.5	1316.1	926.7	613.4	373.9
-17.5°	5324.9	4477.8	4060.1	3498.1	2851.3	2239.0	1708.5	1259.9	886.5	585.9	357.8
-20°	5029.8	4318.1	3955.7	3352.8	2710.1	2125.0	1622.7	1195.4	840.5	554.3	339.4



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	4757.9	4205.6	3778.5	3181.7	2559.3	1997.0	1526.3	1123.0	788.8	518.8	318.7
-25°	4459.2	4081.7	3583.3	2990.7	2404.1	1878.7	1428.5	1042.8	731.4	479.4	295.7
-27.5°	4265.2	3920.9	3370.7	2782.6	2234.6	1750.1	1331.0	971.6	673.4	436.2	270.4
-30°	4109.2	3673.3	3130.2	2564.8	2051.5	1611.0	1225.4	895.3	620.4	399.0	243.0
-32.5°	3914.0	3409.3	2869.9	2351.5	1878.7	1463.8	1112.0	813.4	563.3	365.1	222.0
-35°	3613.9	3117.6	2596.8	2125.0	1705.2	1331.0	1000.7	726.0	502.4	328.9	202.3
-37.5°	3297.3	2804.9	2338.6	1904.1	1521.9	1190.5	898.2	645.9	437.7	290.5	181.3
-40°	2947.2	2493.5	2068.1	1695.3	1353.0	1042.8	790.2	569.8	385.7	249.9	159.2
-42.5°	2587.4	2191.0	1820.9	1477.4	1184.7	918.0	680.0	490.0	337.5	218.1	135.9
-45°	2252.9	1897.0	1577.2	1287.4	1015.3	788.8	588.0	410.6	287.2	190.2	116.5
-47.5°	1922.4	1627.5	1349.5	1091.1	869.6	662.5	492.4	352.3	235.3	161.1	103.4
-50°	1627.5	1370.3	1132.3	918.4	719.0	554.3	401.7	291.8	201.4	130.9	89.8
-52.5°	1349.5	1132.3	934.8	751.4	591.8	442.8	333.0	231.9	166.2	110.4	75.7
-55°	1091.1	918.4	751.4	604.4	467.7	357.8	262.3	191.7	130.0	93.8	62.2
-57.5°	869.6	719.0	591.8	467.7	366.2	278.8	207.1	150.4	106.8	76.7	56.5
-60°	662.5	554.3	442.8	357.8	278.8	212.2	160.6	114.7	87.1	61.4	50.6
-62.5°	492.4	401.7	333.0	262.3	207.1	160.6	117.3	92.4	67.0	54.6	44.6
-65°	352.3	291.8	231.9	191.7	150.4	114.7	92.4	69.6	56.6	47.6	38.8
-67.5°	235.3	201.4	166.2	130.0	106.8	87.1	67.0	56.6	48.6	40.5	33.6
-70°	161.1	130.9	110.4	93.8	76.7	61.4	54.6	47.6	40.5	34.4	28.4
-72.5°	103.4	89.8	75.7	62.2	56.5	50.6	44.6	38.8	33.6	28.4	23.0
-75°	64.5	59.0	54.4	49.6	44.7	39.8	35.5	31.2	26.7	22.2	18.4
-77.5°	48.5	44.8	40.9	37.5	34.2	30.7	27.1	23.5	20.1	17.1	14.0
-80°	34.6	32.1	29.6	27.0	24.2	21.5	19.2	16.9	14.5	12.0	9.6
-82.5°	22.0	20.5	18.9	17.4	15.7	14.1	12.3	10.6	8.8	7.0	5.9
-85°	11.9	10.9	9.8	8.8	7.7	6.6	6.1	5.6	5.0	4.5	4.0
-87.5°	4.5	4.2	4.0	3.8	3.5	3.3	3.0	2.8	2.5	2.3	2.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	1.7	1.4	1.1	0.9	0.6	0.3	0.0
85°	3.4	2.9	2.3	1.7	1.1	0.6	0.0
82.5°	5.1	4.3	3.4	2.6	1.7	0.9	0.0
80°	7.1	5.7	4.6	3.4	2.3	1.1	0.0
77.5°	10.9	7.7	5.7	4.3	2.9	1.4	0.0
75°	14.6	10.9	7.1	5.1	3.4	1.7	0.0
72.5°	18.4	14.0	9.6	5.9	4.0	2.0	0.0
70°	22.2	17.1	12.0	7.0	4.5	2.3	0.0
67.5°	26.7	20.1	14.5	8.8	5.0	2.5	0.0
65°	31.2	23.5	16.9	10.6	5.6	2.8	0.0
62.5°	35.5	27.1	19.2	12.3	6.1	3.0	0.0
60°	39.8	30.7	21.5	14.1	6.6	3.3	0.0
57.5°	44.7	34.2	24.2	15.7	7.7	3.5	0.0
55°	49.6	37.5	27.0	17.4	8.8	3.8	0.0
52.5°	54.4	40.9	29.6	18.9	9.8	4.0	0.0
50°	59.0	44.8	32.1	20.5	10.9	4.2	0.0
47.5°	64.5	48.5	34.6	22.0	11.9	4.5	0.0
45°	75.7	52.0	37.0	23.8	12.8	4.7	0.0
42.5°	86.4	55.4	39.2	25.5	13.7	4.9	0.0
40°	96.7	58.7	41.6	27.1	14.6	5.1	0.0
37.5°	106.4	61.8	44.1	28.7	15.4	5.2	0.0
35°	115.7	67.8	46.4	30.1	16.2	5.4	0.0
32.5°	126.8	75.0	48.6	31.5	16.9	5.6	0.0
30°	142.5	81.8	50.6	32.7	17.6	5.7	0.0
27.5°	157.1	88.0	52.5	33.9	18.2	5.9	0.0
25°	170.5	93.8	54.3	35.0	18.8	6.0	0.0
22.5°	182.8	99.0	55.9	36.0	19.3	6.1	0.0
20°	193.9	103.7	57.3	36.9	19.8	6.2	0.0
17.5°	203.7	107.9	58.6	37.7	20.2	6.3	0.0
15°	212.2	111.6	59.7	38.4	20.6	6.4	0.0
12.5°	219.5	114.7	60.6	39.0	20.9	6.4	0.0
10°	225.4	117.2	61.4	39.4	21.1	6.5	0.0
7.5°	230.1	119.2	62.0	39.8	21.3	6.5	0.0
5°	233.4	120.7	62.5	40.1	21.5	6.6	0.0
2.5°	235.4	121.5	62.7	40.2	21.6	6.6	0.0
0°	236.1	121.8	62.8	40.3	21.6	6.6	0.0
-2.5°	235.4	121.5	62.7	40.2	21.6	6.6	0.0
-5°	233.4	120.7	62.5	40.1	21.5	6.6	0.0
-7.5°	230.1	119.2	62.0	39.8	21.3	6.5	0.0
-10°	225.4	117.2	61.4	39.4	21.1	6.5	0.0
-12.5°	219.5	114.7	60.6	39.0	20.9	6.4	0.0
-15°	212.2	111.6	59.7	38.4	20.6	6.4	0.0
-17.5°	203.7	107.9	58.6	37.7	20.2	6.3	0.0
-20°	193.9	103.7	57.3	36.9	19.8	6.2	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	182.8	99.0	55.9	36.0	19.3	6.1	0.0
-25°	170.5	93.8	54.3	35.0	18.8	6.0	0.0
-27.5°	157.1	88.0	52.5	33.9	18.2	5.9	0.0
-30°	142.5	81.8	50.6	32.7	17.6	5.7	0.0
-32.5°	126.8	75.0	48.6	31.5	16.9	5.6	0.0
-35°	115.7	67.8	46.4	30.1	16.2	5.4	0.0
-37.5°	106.4	61.8	44.1	28.7	15.4	5.2	0.0
-40°	96.7	58.7	41.6	27.1	14.6	5.1	0.0
-42.5°	86.4	55.4	39.2	25.5	13.7	4.9	0.0
-45°	75.7	52.0	37.0	23.8	12.8	4.7	0.0
-47.5°	64.5	48.5	34.6	22.0	11.9	4.5	0.0
-50°	59.0	44.8	32.1	20.5	10.9	4.2	0.0
-52.5°	54.4	40.9	29.6	18.9	9.8	4.0	0.0
-55°	49.6	37.5	27.0	17.4	8.8	3.8	0.0
-57.5°	44.7	34.2	24.2	15.7	7.7	3.5	0.0
-60°	39.8	30.7	21.5	14.1	6.6	3.3	0.0
-62.5°	35.5	27.1	19.2	12.3	6.1	3.0	0.0
-65°	31.2	23.5	16.9	10.6	5.6	2.8	0.0
-67.5°	26.7	20.1	14.5	8.8	5.0	2.5	0.0
-70°	22.2	17.1	12.0	7.0	4.5	2.3	0.0
-72.5°	18.4	14.0	9.6	5.9	4.0	2.0	0.0
-75°	14.6	10.9	7.1	5.1	3.4	1.7	0.0
-77.5°	10.9	7.7	5.7	4.3	2.9	1.4	0.0
-80°	7.1	5.7	4.6	3.4	2.3	1.1	0.0
-82.5°	5.1	4.3	3.4	2.6	1.7	0.9	0.0
-85°	3.4	2.9	2.3	1.7	1.1	0.6	0.0
-87.5°	1.7	1.4	1.1	0.9	0.6	0.3	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)