

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: P699877 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200L-40-80-4S-S**

Issue Date: 8/10/2023

Test Information

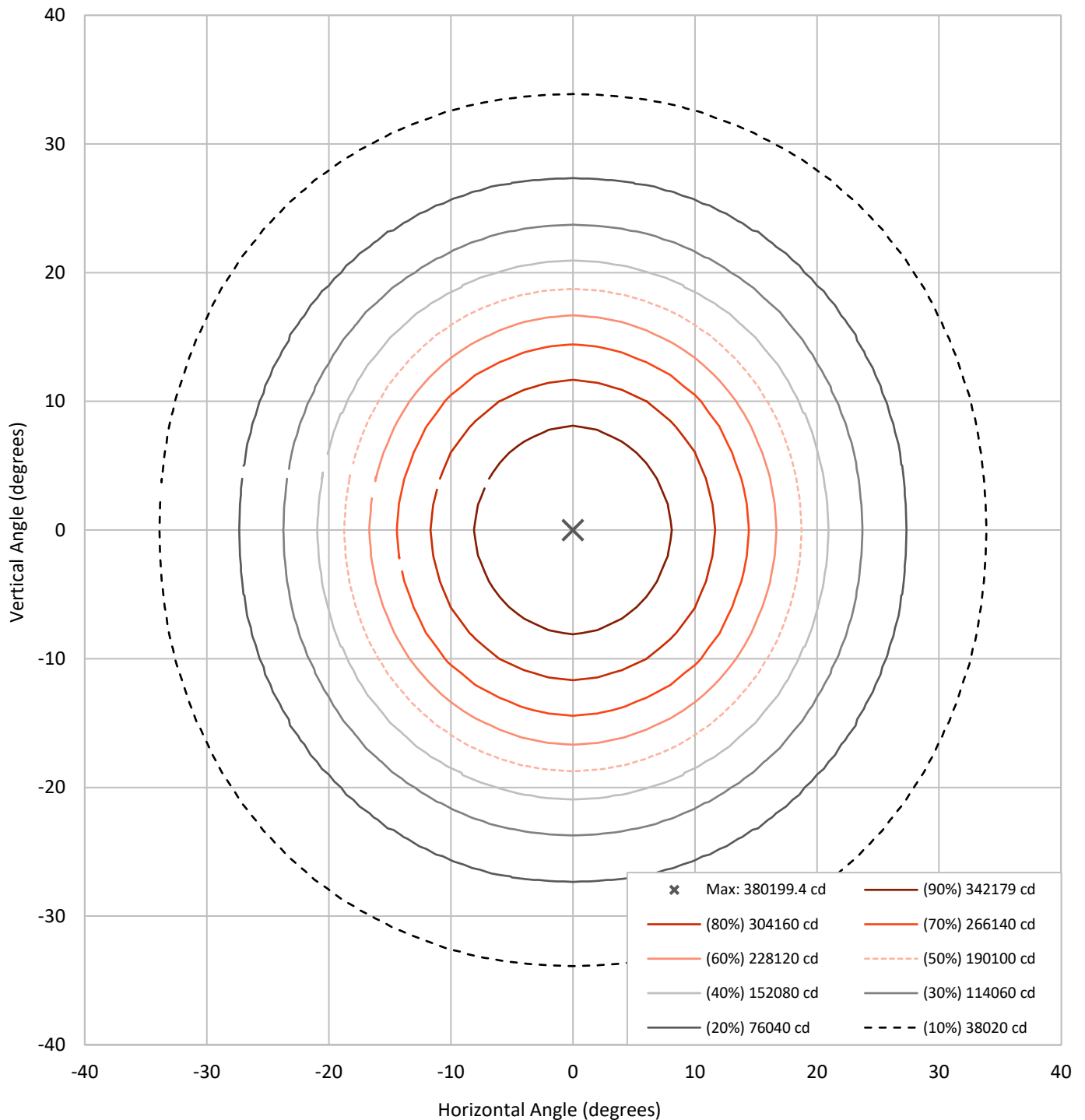
Test Method: LM-79-08
Report Number: P699877 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-12)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200L-40-80-4S-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 4000K, 80 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:	181438.3 lumens	Max Intensity:	380199.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	149.4 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:	92308.8 lumens	Field Lumens:	159630.8 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





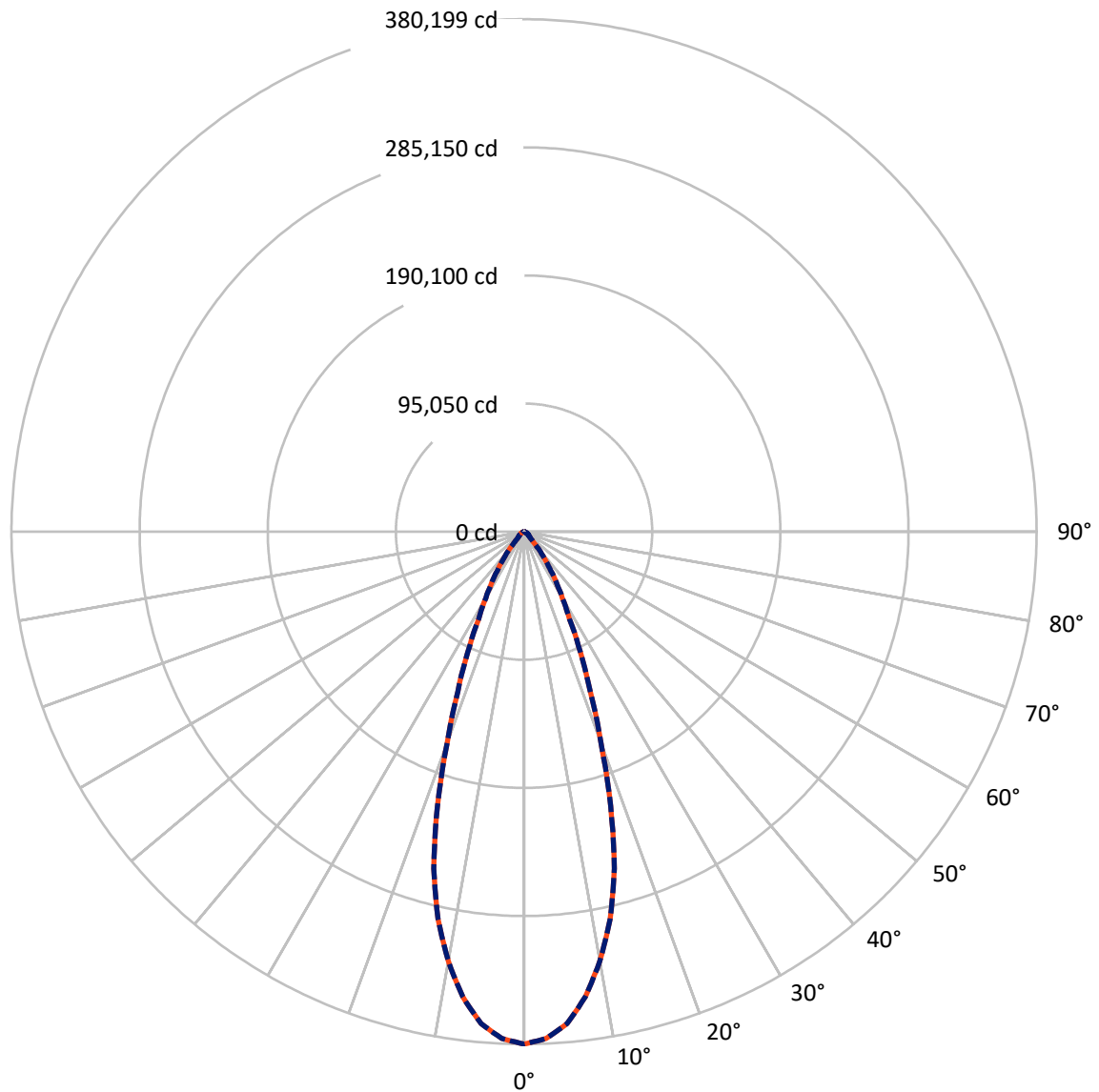
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Lumen Table

90	0.1	1.1	5.9	14.9	19.5	14.9	5.9	1.1	0.1							
80	0.1	1.1	5.9	14.9	19.5	14.9	5.9	1.1	0.1							
70	0.5	0.9	3.9	10.7	21.5	33.7	44.4	50.3	50.3	44.4	33.7	21.5	10.7	3.9	0.9	0.5
60		2.9	12.5	31.6	57.0	81.6	100.7	111.4	111.4	100.7	81.6	57.0	31.6	12.5	2.9	
50	2.1	6.6	25.9	58.2	94.5	134.6	187.3	236.6	236.6	187.3	134.6	94.5	58.2	25.9	6.6	2.1
40		11.5	40.3	81.8	144.1	342.4	709.6	994.1	994.1	709.6	342.4	144.1	81.8	40.3	11.5	
30	4.4	16.3	52.2	105.6	311.5	966.2	1962.4	2926.7	2926.7	1962.4	966.2	311.5	105.6	52.2	16.3	4.4
20		20.1	60.4	138.5	607.9	1848.2	4463.2	7145.7	7145.7	4463.2	1848.2	607.9	138.5	60.4	20.1	
10	5.5	22.1	64.8	170.6	826.5	2679.6	6943.4	10355.6	10355.6	6943.4	2679.6	826.5	170.6	64.8	22.1	5.5
0		22.1	64.8	170.6	826.5	2679.6	6943.4	10355.6	10355.6	6943.4	2679.6	826.5	170.6	64.8	22.1	
-10	4.4	20.1	60.4	138.5	607.9	1848.2	4463.2	7145.7	7145.7	4463.2	1848.2	607.9	138.5	60.4	20.1	4.4
-20		16.3	52.2	105.6	311.5	966.2	1962.4	2926.7	2926.7	1962.4	966.2	311.5	105.6	52.2	16.3	
-30	2.1	11.5	40.3	81.8	144.1	342.4	709.6	994.1	994.1	709.6	342.4	144.1	81.8	40.3	11.5	2.1
-40		6.6	25.9	58.2	94.5	134.6	187.3	236.6	236.6	187.3	134.6	94.5	58.2	25.9	6.6	
-50	0.5	2.9	12.5	31.6	57.0	81.6	100.7	111.4	111.4	100.7	81.6	57.0	31.6	12.5	2.9	0.5
-60		0.9	3.9	10.7	21.5	33.7	44.4	50.3	50.3	44.4	33.7	21.5	10.7	3.9	0.9	
-70	0.1	1.1	5.9	14.9	19.5	14.9	5.9	1.1	0.1							
-80		0.1	1.1	5.9	14.9	19.5	14.9	5.9	1.1	0.1						
-90	0.1	1.1	5.9	14.9	19.5	14.9	5.9	1.1	0.1							

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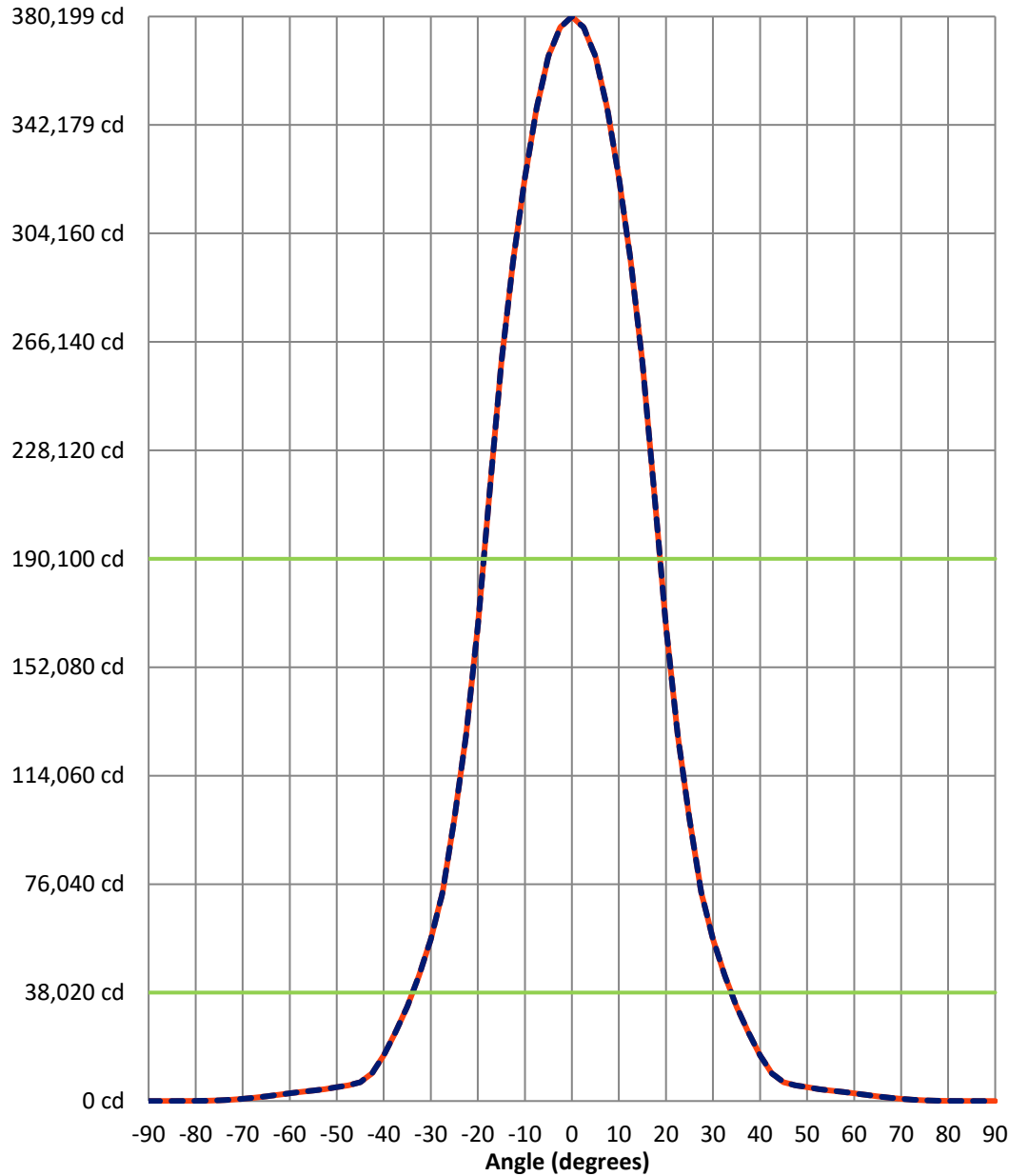
Luminous Intensity Polar Plot



— 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: 92308.8
 Efficiency: 50.9%

Field:
 H Angle: 67.8°
 V Angle: 67.8°
 Lumens: 159630.8
 Efficiency: 88.0%

Spill:
 Lumens: 21807.5
 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	0.2	0.4	0.5	0.6	0.7	0.8	1.0	1.1	1.2
85°	0.0	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.4
82.5°	0.0	0.4	0.7	1.1	1.5	1.8	2.2	2.5	3.0	3.9	4.8
80°	0.0	0.5	1.0	1.5	1.9	2.4	3.0	4.3	5.5	6.7	7.9
77.5°	0.0	0.6	1.2	1.8	2.4	3.4	4.9	6.5	8.0	9.6	12.0
75°	0.0	0.7	1.4	2.2	3.0	4.9	6.8	8.7	10.8	14.9	19.0
72.5°	0.0	0.8	1.7	2.5	4.3	6.5	8.7	11.6	16.4	21.2	25.9
70°	0.0	1.0	1.9	3.0	5.5	8.0	10.8	16.4	21.9	27.4	34.2
67.5°	0.0	1.1	2.1	3.9	6.7	9.6	14.9	21.2	27.4	35.1	42.7
65°	0.0	1.2	2.4	4.8	7.9	12.0	19.0	25.9	34.2	42.7	56.9
62.5°	0.0	1.3	2.6	5.7	9.1	15.3	22.9	31.3	40.8	53.8	84.4
60°	0.0	1.4	2.8	6.5	10.2	18.5	26.8	37.1	47.4	78.1	111.3
57.5°	0.0	1.5	3.4	7.4	12.7	21.6	31.4	42.7	65.5	101.8	153.4
55°	0.0	1.6	3.9	8.2	15.1	24.7	36.1	48.1	86.1	129.5	201.8
52.5°	0.0	1.7	4.4	9.0	17.5	27.8	40.7	64.3	106.2	172.0	249.0
50°	0.0	1.8	4.9	9.7	19.8	31.5	45.1	81.3	130.6	213.2	316.8
47.5°	0.0	1.9	5.4	10.7	22.0	35.0	50.7	97.7	166.0	253.0	385.0
45°	0.0	2.0	5.9	12.3	24.2	38.4	64.2	113.5	200.1	311.6	450.8
42.5°	0.0	2.1	6.4	13.8	26.2	41.7	77.2	136.5	232.8	368.4	543.0
40°	0.0	2.1	6.8	15.3	28.4	44.8	89.6	163.7	269.5	422.7	636.1
37.5°	0.0	2.2	7.2	16.7	30.8	47.7	101.4	189.7	315.3	482.2	724.8
35°	0.0	2.3	7.6	18.0	33.0	54.7	112.5	214.2	358.7	557.5	817.0
32.5°	0.0	2.4	7.9	19.2	35.1	63.5	125.7	237.4	399.5	628.5	916.4
30°	0.0	2.4	8.3	20.4	37.1	71.6	144.2	261.7	437.8	695.0	1009.6
27.5°	0.0	2.5	8.6	21.4	38.9	79.1	161.3	292.6	480.4	756.8	1096.4
25°	0.0	2.5	8.9	22.4	40.6	86.1	177.1	321.1	530.7	823.2	1177.1
22.5°	0.0	2.6	9.2	23.3	42.1	92.4	191.4	347.1	576.6	888.5	1264.2
20°	0.0	2.6	9.4	24.1	43.5	98.1	204.4	370.5	618.1	947.3	1342.9
17.5°	0.0	2.7	9.6	24.8	44.7	103.2	215.9	391.3	654.8	999.6	1412.9
15°	0.0	2.7	9.8	25.5	45.7	107.6	225.9	409.4	686.9	1045.2	1474.0
12.5°	0.0	2.7	9.9	26.0	46.6	111.3	234.4	424.8	714.2	1084.1	1526.0
10°	0.0	2.8	10.1	26.4	47.4	114.4	241.4	437.5	736.6	1116.0	1568.8
7.5°	0.0	2.8	10.2	26.8	48.0	116.8	246.9	447.4	754.1	1140.9	1602.2
5°	0.0	2.8	10.2	27.0	48.4	118.5	250.8	454.4	766.7	1158.8	1626.1
2.5°	0.0	2.8	10.3	27.2	48.6	119.6	253.1	458.7	774.2	1169.5	1640.5
0°	0.0	2.8	10.3	27.2	48.7	119.9	253.9	460.1	776.7	1173.1	1645.3
-2.5°	0.0	2.8	10.3	27.2	48.6	119.6	253.1	458.7	774.2	1169.5	1640.5
-5°	0.0	2.8	10.2	27.0	48.4	118.5	250.8	454.4	766.7	1158.8	1626.1
-7.5°	0.0	2.8	10.2	26.8	48.0	116.8	246.9	447.4	754.1	1140.9	1602.2
-10°	0.0	2.8	10.1	26.4	47.4	114.4	241.4	437.5	736.6	1116.0	1568.8
-12.5°	0.0	2.7	9.9	26.0	46.6	111.3	234.4	424.8	714.2	1084.1	1526.0
-15°	0.0	2.7	9.8	25.5	45.7	107.6	225.9	409.4	686.9	1045.2	1474.0
-17.5°	0.0	2.7	9.6	24.8	44.7	103.2	215.9	391.3	654.8	999.6	1412.9
-20°	0.0	2.6	9.4	24.1	43.5	98.1	204.4	370.5	618.1	947.3	1342.9



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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	2.6	9.2	23.3	42.1	92.4	191.4	347.1	576.6	888.5	1264.2
-25°	0.0	2.5	8.9	22.4	40.6	86.1	177.1	321.1	530.7	823.2	1177.1
-27.5°	0.0	2.5	8.6	21.4	38.9	79.1	161.3	292.6	480.4	756.8	1096.4
-30°	0.0	2.4	8.3	20.4	37.1	71.6	144.2	261.7	437.8	695.0	1009.6
-32.5°	0.0	2.4	7.9	19.2	35.1	63.5	125.7	237.4	399.5	628.5	916.4
-35°	0.0	2.3	7.6	18.0	33.0	54.7	112.5	214.2	358.7	557.5	817.0
-37.5°	0.0	2.2	7.2	16.7	30.8	47.7	101.4	189.7	315.3	482.2	724.8
-40°	0.0	2.1	6.8	15.3	28.4	44.8	89.6	163.7	269.5	422.7	636.1
-42.5°	0.0	2.1	6.4	13.8	26.2	41.7	77.2	136.5	232.8	368.4	543.0
-45°	0.0	2.0	5.9	12.3	24.2	38.4	64.2	113.5	200.1	311.6	450.8
-47.5°	0.0	1.9	5.4	10.7	22.0	35.0	50.7	97.7	166.0	253.0	385.0
-50°	0.0	1.8	4.9	9.7	19.8	31.5	45.1	81.3	130.6	213.2	316.8
-52.5°	0.0	1.7	4.4	9.0	17.5	27.8	40.7	64.3	106.2	172.0	249.0
-55°	0.0	1.6	3.9	8.2	15.1	24.7	36.1	48.1	86.1	129.5	201.8
-57.5°	0.0	1.5	3.4	7.4	12.7	21.6	31.4	42.7	65.5	101.8	153.4
-60°	0.0	1.4	2.8	6.5	10.2	18.5	26.8	37.1	47.4	78.1	111.3
-62.5°	0.0	1.3	2.6	5.7	9.1	15.3	22.9	31.3	40.8	53.8	84.4
-65°	0.0	1.2	2.4	4.8	7.9	12.0	19.0	25.9	34.2	42.7	56.9
-67.5°	0.0	1.1	2.1	3.9	6.7	9.6	14.9	21.2	27.4	35.1	42.7
-70°	0.0	1.0	1.9	3.0	5.5	8.0	10.8	16.4	21.9	27.4	34.2
-72.5°	0.0	0.8	1.7	2.5	4.3	6.5	8.7	11.6	16.4	21.2	25.9
-75°	0.0	0.7	1.4	2.2	3.0	4.9	6.8	8.7	10.8	14.9	19.0
-77.5°	0.0	0.6	1.2	1.8	2.4	3.4	4.9	6.5	8.0	9.6	12.0
-80°	0.0	0.5	1.0	1.5	1.9	2.4	3.0	4.3	5.5	6.7	7.9
-82.5°	0.0	0.4	0.7	1.1	1.5	1.8	2.2	2.5	3.0	3.9	4.8
-85°	0.0	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.4
-87.5°	0.0	0.1	0.2	0.4	0.5	0.6	0.7	0.8	1.0	1.1	1.2
-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-40-80-4S-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°	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.1	2.2
85°	2.6	2.8	3.4	3.9	4.4	4.9	5.4	5.9	6.4	6.8	7.2
82.5°	5.7	6.5	7.4	8.2	9.0	9.7	10.7	12.3	13.8	15.3	16.7
80°	9.1	10.2	12.7	15.1	17.5	19.8	22.0	24.2	26.2	28.4	30.8
77.5°	15.3	18.5	21.6	24.7	27.8	31.5	35.0	38.4	41.7	44.8	47.7
75°	22.9	26.8	31.4	36.1	40.7	45.1	50.7	64.2	77.2	89.6	101.4
72.5°	31.3	37.1	42.7	48.1	64.3	81.3	97.7	113.5	136.5	163.7	189.7
70°	40.8	47.4	65.5	86.1	106.2	130.6	166.0	200.1	232.8	269.5	315.3
67.5°	53.8	78.1	101.8	129.5	172.0	213.2	253.0	311.6	368.4	422.7	482.2
65°	84.4	111.3	153.4	201.8	249.0	316.8	385.0	450.8	543.0	636.1	724.8
62.5°	114.5	165.4	219.9	283.4	363.2	440.8	545.8	657.3	764.5	890.1	1012.9
60°	165.4	225.9	302.1	391.3	488.1	618.1	744.1	888.5	1035.4	1177.1	1337.5
57.5°	219.9	302.1	400.7	517.1	661.7	809.1	980.3	1146.0	1331.2	1514.0	1694.2
55°	283.4	391.3	517.1	676.3	845.9	1035.9	1229.6	1442.7	1648.9	1870.8	2083.2
52.5°	363.2	488.1	661.7	845.9	1054.5	1274.3	1510.2	1750.5	1998.6	2239.5	2475.5
50°	440.8	618.1	809.1	1035.9	1274.3	1532.8	1801.6	2076.0	2346.7	2610.7	2854.8
47.5°	545.8	744.1	980.3	1229.6	1510.2	1801.6	2102.0	2400.7	2692.6	2957.9	3211.5
45°	657.3	888.5	1146.0	1442.7	1750.5	2076.0	2400.7	2720.0	3009.9	3283.4	3522.5
42.5°	764.5	1035.4	1331.2	1648.9	1998.6	2346.7	2692.6	3009.9	3306.8	3570.0	3837.0
40°	890.1	1177.1	1514.0	1870.8	2239.5	2610.7	2957.9	3283.4	3570.0	3863.4	4157.0
37.5°	1012.9	1337.5	1694.2	2083.2	2475.5	2854.8	3211.5	3522.5	3837.0	4157.0	4596.0
35°	1129.5	1490.1	1880.8	2289.1	2700.8	3081.3	3428.3	3758.2	4103.2	4556.5	5010.9
32.5°	1252.3	1634.3	2057.4	2486.7	2901.9	3288.9	3632.7	3996.6	4438.8	4938.4	5382.3
30°	1375.4	1784.8	2225.0	2672.9	3090.4	3468.7	3839.2	4245.0	4785.8	5271.4	5905.6
27.5°	1490.1	1926.5	2384.7	2838.6	3262.5	3637.4	4037.2	4550.4	5089.3	5643.4	6491.2
25°	1596.0	2057.4	2532.6	2989.4	3407.4	3804.3	4243.4	4835.3	5364.6	6157.5	7826.1
22.5°	1698.7	2177.4	2668.1	3127.7	3540.4	3961.5	4487.3	5076.0	5700.8	6675.5	9274.0
20°	1796.8	2289.1	2786.2	3250.4	3661.1	4104.3	4709.3	5291.8	6106.4	7910.8	11506.1
17.5°	1884.2	2388.6	2888.4	3349.3	3777.0	4258.6	4905.1	5485.6	6471.3	9025.3	13948.6
15°	1960.5	2475.5	2977.8	3436.0	3880.0	4419.6	5062.4	5765.0	7123.9	10301.4	16131.9
12.5°	2025.5	2549.6	3054.1	3509.9	3968.1	4557.4	5197.1	6020.0	7906.1	12024.2	18530.2
10°	2078.9	2610.7	3117.0	3570.9	4040.8	4671.2	5308.6	6231.1	8554.9	13455.7	20527.4
7.5°	2120.7	2658.4	3166.1	3618.7	4097.7	4760.4	5396.0	6396.9	9065.1	14583.3	22103.6
5°	2150.7	2692.6	3201.4	3652.9	4138.6	4824.5	5458.9	6516.2	9432.6	15396.6	23242.1
2.5°	2168.7	2713.1	3222.6	3673.5	4163.2	4863.1	5496.7	6588.2	9654.4	15887.8	23930.4
0°	2174.7	2720.0	3229.7	3680.4	4171.4	4876.0	5509.4	6612.2	9728.5	16052.1	24160.7
-2.5°	2168.7	2713.1	3222.6	3673.5	4163.2	4863.1	5496.7	6588.2	9654.4	15887.8	23930.4
-5°	2150.7	2692.6	3201.4	3652.9	4138.6	4824.5	5458.9	6516.2	9432.6	15396.6	23242.1
-7.5°	2120.7	2658.4	3166.1	3618.7	4097.7	4760.4	5396.0	6396.9	9065.1	14583.3	22103.6
-10°	2078.9	2610.7	3117.0	3570.9	4040.8	4671.2	5308.6	6231.1	8554.9	13455.7	20527.4
-12.5°	2025.5	2549.6	3054.1	3509.9	3968.1	4557.4	5197.1	6020.0	7906.1	12024.2	18530.2
-15°	1960.5	2475.5	2977.8	3436.0	3880.0	4419.6	5062.4	5765.0	7123.9	10301.4	16131.9
-17.5°	1884.2	2388.6	2888.4	3349.3	3777.0	4258.6	4905.1	5485.6	6471.3	9025.3	13948.6
-20°	1796.8	2289.1	2786.2	3250.4	3661.1	4104.3	4709.3	5291.8	6106.4	7910.8	11506.1



REPORT NUMBER: P699877 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-4S-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1698.7	2177.4	2668.1	3127.7	3540.4	3961.5	4487.3	5076.0	5700.8	6675.5	9274.0
-25°	1596.0	2057.4	2532.6	2989.4	3407.4	3804.3	4243.4	4835.3	5364.6	6157.5	7826.1
-27.5°	1490.1	1926.5	2384.7	2838.6	3262.5	3637.4	4037.2	4550.4	5089.3	5643.4	6491.2
-30°	1375.4	1784.8	2225.0	2672.9	3090.4	3468.7	3839.2	4245.0	4785.8	5271.4	5905.6
-32.5°	1252.3	1634.3	2057.4	2486.7	2901.9	3288.9	3632.7	3996.6	4438.8	4938.4	5382.3
-35°	1129.5	1490.1	1880.8	2289.1	2700.8	3081.3	3428.3	3758.2	4103.2	4556.5	5010.9
-37.5°	1012.9	1337.5	1694.2	2083.2	2475.5	2854.8	3211.5	3522.5	3837.0	4157.0	4596.0
-40°	890.1	1177.1	1514.0	1870.8	2239.5	2610.7	2957.9	3283.4	3570.0	3863.4	4157.0
-42.5°	764.5	1035.4	1331.2	1648.9	1998.6	2346.7	2692.6	3009.9	3306.8	3570.0	3837.0
-45°	657.3	888.5	1146.0	1442.7	1750.5	2076.0	2400.7	2720.0	3009.9	3283.4	3522.5
-47.5°	545.8	744.1	980.3	1229.6	1510.2	1801.6	2102.0	2400.7	2692.6	2957.9	3211.5
-50°	440.8	618.1	809.1	1035.9	1274.3	1532.8	1801.6	2076.0	2346.7	2610.7	2854.8
-52.5°	363.2	488.1	661.7	845.9	1054.5	1274.3	1510.2	1750.5	1998.6	2239.5	2475.5
-55°	283.4	391.3	517.1	676.3	845.9	1035.9	1229.6	1442.7	1648.9	1870.8	2083.2
-57.5°	219.9	302.1	400.7	517.1	661.7	809.1	980.3	1146.0	1331.2	1514.0	1694.2
-60°	165.4	225.9	302.1	391.3	488.1	618.1	744.1	888.5	1035.4	1177.1	1337.5
-62.5°	114.5	165.4	219.9	283.4	363.2	440.8	545.8	657.3	764.5	890.1	1012.9
-65°	84.4	111.3	153.4	201.8	249.0	316.8	385.0	450.8	543.0	636.1	724.8
-67.5°	53.8	78.1	101.8	129.5	172.0	213.2	253.0	311.6	368.4	422.7	482.2
-70°	40.8	47.4	65.5	86.1	106.2	130.6	166.0	200.1	232.8	269.5	315.3
-72.5°	31.3	37.1	42.7	48.1	64.3	81.3	97.7	113.5	136.5	163.7	189.7
-75°	22.9	26.8	31.4	36.1	40.7	45.1	50.7	64.2	77.2	89.6	101.4
-77.5°	15.3	18.5	21.6	24.7	27.8	31.5	35.0	38.4	41.7	44.8	47.7
-80°	9.1	10.2	12.7	15.1	17.5	19.8	22.0	24.2	26.2	28.4	30.8
-82.5°	5.7	6.5	7.4	8.2	9.0	9.7	10.7	12.3	13.8	15.3	16.7
-85°	2.6	2.8	3.4	3.9	4.4	4.9	5.4	5.9	6.4	6.8	7.2
-87.5°	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.1	2.2
-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: P699877 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-4S-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°	2.3	2.4	2.4	2.5	2.5	2.6	2.6	2.7	2.7	2.7	2.8
85°	7.6	7.9	8.3	8.6	8.9	9.2	9.4	9.6	9.8	9.9	10.1
82.5°	18.0	19.2	20.4	21.4	22.4	23.3	24.1	24.8	25.5	26.0	26.4
80°	33.0	35.1	37.1	38.9	40.6	42.1	43.5	44.7	45.7	46.6	47.4
77.5°	54.7	63.5	71.6	79.1	86.1	92.4	98.1	103.2	107.6	111.3	114.4
75°	112.5	125.7	144.2	161.3	177.1	191.4	204.4	215.9	225.9	234.4	241.4
72.5°	214.2	237.4	261.7	292.6	321.1	347.1	370.5	391.3	409.4	424.8	437.5
70°	358.7	399.5	437.8	480.4	530.7	576.6	618.1	654.8	686.9	714.2	736.6
67.5°	557.5	628.5	695.0	756.8	823.2	888.5	947.3	999.6	1045.2	1084.1	1116.0
65°	817.0	916.4	1009.6	1096.4	1177.1	1264.2	1342.9	1412.9	1474.0	1526.0	1568.8
62.5°	1129.5	1252.3	1375.4	1490.1	1596.0	1698.7	1796.8	1884.2	1960.5	2025.5	2078.9
60°	1490.1	1634.3	1784.8	1926.5	2057.4	2177.4	2289.1	2388.6	2475.5	2549.6	2610.7
57.5°	1880.8	2057.4	2225.0	2384.7	2532.6	2668.1	2786.2	2888.4	2977.8	3054.1	3117.0
55°	2289.1	2486.7	2672.9	2838.6	2989.4	3127.7	3250.4	3349.3	3436.0	3509.9	3570.9
52.5°	2700.8	2901.9	3090.4	3262.5	3407.4	3540.4	3661.1	3777.0	3880.0	3968.1	4040.8
50°	3081.3	3288.9	3468.7	3637.4	3804.3	3961.5	4104.3	4258.6	4419.6	4557.4	4671.2
47.5°	3428.3	3632.7	3839.2	4037.2	4243.4	4487.3	4709.3	4905.1	5062.4	5197.1	5308.6
45°	3758.2	3996.6	4245.0	4504.4	4835.3	5076.0	5291.8	5485.6	5765.0	6020.0	6231.1
42.5°	4103.2	4438.8	4785.8	5089.3	5364.6	5700.8	6106.4	6471.3	7123.9	7906.1	8554.9
40°	4556.5	4938.4	5271.4	5643.4	6157.5	6675.5	7910.8	9025.3	10301.4	12024.2	13455.7
37.5°	5010.9	5382.3	5905.6	6491.2	7826.1	9274.0	11506.1	13948.6	16131.9	18530.2	20527.4
35°	5419.5	6038.2	6844.9	8608.9	10832.8	13984.8	17127.4	20509.2	23517.1	26332.8	28741.6
32.5°	6038.2	7037.9	9005.3	12070.3	15675.7	19901.0	23909.2	27925.3	31534.6	34998.3	38186.2
30°	6844.9	9005.3	12486.5	16669.0	21598.7	26459.1	31231.2	36121.0	40869.7	45177.7	49243.0
27.5°	8608.9	12070.3	16669.0	22170.4	27768.9	33287.3	39509.0	45428.8	51442.0	56716.5	62476.1
25°	10832.8	15675.7	21598.7	27768.9	34118.1	41235.9	48565.0	55773.4	63945.3	71407.6	80309.0
22.5°	13984.8	19901.0	26459.1	33287.3	41235.9	49625.4	58357.0	68432.9	80126.6	92890.3	104560.7
20°	17127.4	23909.2	31231.2	39509.0	48565.0	58357.0	69955.0	85124.3	101042.7	117166.6	131895.0
17.5°	20509.2	27925.3	36121.0	45428.8	55773.4	68432.9	85124.3	104124.6	123702.1	145287.2	165342.9
15°	23517.1	31534.6	40869.7	51442.0	63945.3	80126.6	101042.7	123702.1	149880.7	177153.4	204700.6
12.5°	26332.8	34998.3	45177.7	56716.5	71407.6	92890.3	117166.6	145287.2	177153.4	211391.2	241405.2
10°	28741.6	38186.2	49243.0	62476.1	80309.0	104560.7	131895.0	165342.9	204700.6	241405.2	272206.4
7.5°	30646.9	40714.7	52478.5	67084.8	88261.5	114724.6	146592.7	185405.5	227346.9	265601.4	294781.8
5°	32025.6	42548.5	54831.3	70448.0	94090.4	122217.7	157512.2	200671.9	244396.6	281602.9	310826.7
2.5°	32860.2	43660.3	56260.6	72496.0	97651.3	126814.7	164250.2	210169.5	255131.6	291294.8	320313.6
0°	33139.6	44032.8	56740.0	73183.8	98849.3	128364.7	166529.3	213396.5	258803.9	294481.8	323597.1
-2.5°	32860.2	43660.3	56260.6	72496.0	97651.3	126814.7	164250.2	210169.5	255131.6	291294.8	320313.6
-5°	32025.6	42548.5	54831.3	70448.0	94090.4	122217.7	157512.2	200671.9	244396.6	281602.9	310826.7
-7.5°	30646.9	40714.7	52478.5	67084.8	88261.5	114724.6	146592.7	185405.5	227346.9	265601.4	294781.8
-10°	28741.6	38186.2	49243.0	62476.1	80309.0	104560.7	131895.0	165342.9	204700.6	241405.2	272206.4
-12.5°	26332.8	34998.3	45177.7	56716.5	71407.6	92890.3	117166.6	145287.2	177153.4	211391.2	241405.2
-15°	23517.1	31534.6	40869.7	51442.0	63945.3	80126.6	101042.7	123702.1	149880.7	177153.4	204700.6
-17.5°	20509.2	27925.3	36121.0	45428.8	55773.4	68432.9	85124.3	104124.6	123702.1	145287.2	165342.9
-20°	17127.4	23909.2	31231.2	39509.0	48565.0	58357.0	69955.0	85124.3	101042.7	117166.6	131895.0



REPORT NUMBER: P699877 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-4S-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	13984.8	19901.0	26459.1	33287.3	41235.9	49625.4	58357.0	68432.9	80126.6	92890.3	104560.7
-25°	10832.8	15675.7	21598.7	27768.9	34118.1	41235.9	48565.0	55773.4	63945.3	71407.6	80309.0
-27.5°	8608.9	12070.3	16669.0	22170.4	27768.9	33287.3	39509.0	45428.8	51442.0	56716.5	62476.1
-30°	6844.9	9005.3	12486.5	16669.0	21598.7	26459.1	31231.2	36121.0	40869.7	45177.7	49243.0
-32.5°	6038.2	7037.9	9005.3	12070.3	15675.7	19901.0	23909.2	27925.3	31534.6	34998.3	38186.2
-35°	5419.5	6038.2	6844.9	8608.9	10832.8	13984.8	17127.4	20509.2	23517.1	26332.8	28741.6
-37.5°	5010.9	5382.3	5905.6	6491.2	7826.1	9274.0	11506.1	13948.6	16131.9	18530.2	20527.4
-40°	4556.5	4938.4	5271.4	5643.4	6157.5	6675.5	7910.8	9025.3	10301.4	12024.2	13455.7
-42.5°	4103.2	4438.8	4785.8	5089.3	5364.6	5700.8	6106.4	6471.3	7123.9	7906.1	8554.9
-45°	3758.2	3996.6	4245.0	4550.4	4835.3	5076.0	5291.8	5485.6	5765.0	6020.0	6231.1
-47.5°	3428.3	3632.7	3839.2	4037.2	4243.4	4487.3	4709.3	4905.1	5062.4	5197.1	5308.6
-50°	3081.3	3288.9	3468.7	3637.4	3804.3	3961.5	4104.3	4258.6	4419.6	4557.4	4671.2
-52.5°	2700.8	2901.9	3090.4	3262.5	3407.4	3540.4	3661.1	3777.0	3880.0	3968.1	4040.8
-55°	2289.1	2486.7	2672.9	2838.6	2989.4	3127.7	3250.4	3349.3	3436.0	3509.9	3570.9
-57.5°	1880.8	2057.4	2225.0	2384.7	2532.6	2668.1	2786.2	2888.4	2977.8	3054.1	3117.0
-60°	1490.1	1634.3	1784.8	1926.5	2057.4	2177.4	2289.1	2388.6	2475.5	2549.6	2610.7
-62.5°	1129.5	1252.3	1375.4	1490.1	1596.0	1698.7	1796.8	1884.2	1960.5	2025.5	2078.9
-65°	817.0	916.4	1009.6	1096.4	1177.1	1264.2	1342.9	1412.9	1474.0	1526.0	1568.8
-67.5°	557.5	628.5	695.0	756.8	823.2	888.5	947.3	999.6	1045.2	1084.1	1116.0
-70°	358.7	399.5	437.8	480.4	530.7	576.6	618.1	654.8	686.9	714.2	736.6
-72.5°	214.2	237.4	261.7	292.6	321.1	347.1	370.5	391.3	409.4	424.8	437.5
-75°	112.5	125.7	144.2	161.3	177.1	191.4	204.4	215.9	225.9	234.4	241.4
-77.5°	54.7	63.5	71.6	79.1	86.1	92.4	98.1	103.2	107.6	111.3	114.4
-80°	33.0	35.1	37.1	38.9	40.6	42.1	43.5	44.7	45.7	46.6	47.4
-82.5°	18.0	19.2	20.4	21.4	22.4	23.3	24.1	24.8	25.5	26.0	26.4
-85°	7.6	7.9	8.3	8.6	8.9	9.2	9.4	9.6	9.8	9.9	10.1
-87.5°	2.3	2.4	2.4	2.5	2.5	2.6	2.6	2.7	2.7	2.7	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



REPORT NUMBER: P699877 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-4S-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°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.7
85°	10.2	10.2	10.3	10.3	10.3	10.2	10.2	10.1	9.9	9.8	9.6
82.5°	26.8	27.0	27.2	27.2	27.2	27.0	26.8	26.4	26.0	25.5	24.8
80°	48.0	48.4	48.6	48.7	48.6	48.4	48.0	47.4	46.6	45.7	44.7
77.5°	116.8	118.5	119.6	119.9	119.6	118.5	116.8	114.4	111.3	107.6	103.2
75°	246.9	250.8	253.1	253.9	253.1	250.8	246.9	241.4	234.4	225.9	215.9
72.5°	447.4	454.4	458.7	460.1	458.7	454.4	447.4	437.5	424.8	409.4	391.3
70°	754.1	766.7	774.2	776.7	774.2	766.7	754.1	736.6	714.2	686.9	654.8
67.5°	1140.9	1158.8	1169.5	1173.1	1169.5	1158.8	1140.9	1116.0	1084.1	1045.2	999.6
65°	1602.2	1626.1	1640.5	1645.3	1640.5	1626.1	1602.2	1568.8	1526.0	1474.0	1412.9
62.5°	2120.7	2150.7	2168.7	2174.7	2168.7	2150.7	2120.7	2078.9	2025.5	1960.5	1884.2
60°	2658.4	2692.6	2713.1	2720.0	2713.1	2692.6	2658.4	2610.7	2549.6	2475.5	2388.6
57.5°	3166.1	3201.4	3222.6	3229.7	3222.6	3201.4	3166.1	3117.0	3054.1	2977.8	2888.4
55°	3618.7	3652.9	3673.5	3680.4	3673.5	3652.9	3618.7	3570.9	3509.9	3436.0	3349.3
52.5°	4097.7	4138.6	4163.2	4171.4	4163.2	4138.6	4097.7	4040.8	3968.1	3880.0	3777.0
50°	4760.4	4824.5	4863.1	4876.0	4863.1	4824.5	4760.4	4671.2	4557.4	4419.6	4258.6
47.5°	5396.0	5458.9	5496.7	5509.4	5496.7	5458.9	5396.0	5308.6	5197.1	5062.4	4905.1
45°	6396.9	6516.2	6588.2	6612.2	6588.2	6516.2	6396.9	6231.1	6020.0	5765.0	5485.6
42.5°	9065.1	9432.6	9654.4	9728.5	9654.4	9432.6	9065.1	8554.9	7906.1	7123.9	6471.3
40°	14583.3	15396.6	15887.8	16052.1	15887.8	15396.6	14583.3	13455.7	12024.2	10301.4	9025.3
37.5°	22103.6	23242.1	23930.4	24160.7	23930.4	23242.1	22103.6	20527.4	18530.2	16131.9	13948.6
35°	30646.9	32025.6	32860.2	33139.6	32860.2	32025.6	30646.9	28741.6	26332.8	23517.1	20509.2
32.5°	40714.7	42548.5	43660.3	44032.8	43660.3	42548.5	40714.7	38186.2	34998.3	31534.6	27925.3
30°	52478.5	54831.3	56260.6	56740.0	56260.6	54831.3	52478.5	49243.0	45177.7	40869.7	36121.0
27.5°	67084.8	70448.0	72496.0	73183.8	72496.0	70448.0	67084.8	62476.1	56716.5	51442.0	45428.8
25°	88261.5	94090.4	97651.3	98849.3	97651.3	94090.4	88261.5	80309.0	71407.6	63945.3	55773.4
22.5°	114724.6	122217.7	126814.7	128364.7	126814.7	122217.7	114724.6	104560.7	92890.3	80126.6	68432.9
20°	146592.7	157512.2	164250.2	166529.3	164250.2	157512.2	146592.7	131895.0	117166.6	101042.7	85124.3
17.5°	185405.5	200671.9	210169.5	213396.5	210169.5	200671.9	185405.5	165342.9	145287.2	123702.1	104124.6
15°	227346.9	244396.6	255131.6	258803.9	255131.6	244396.6	227346.9	204700.6	177153.4	149880.7	123702.1
12.5°	265601.4	281602.9	291294.8	294481.8	291294.8	281602.9	265601.4	241405.2	211391.2	177153.4	145287.2
10°	294781.8	310826.7	320313.6	323597.1	320313.6	310826.7	294781.8	272206.4	241405.2	204700.6	165342.9
7.5°	317223.5	333986.9	344618.2	348106.9	344618.2	333986.9	317223.5	294781.8	265601.4	227346.9	185405.5
5°	333986.9	351854.8	362569.3	366228.3	362569.3	351854.8	333986.9	310826.7	281602.9	244396.6	200671.9
2.5°	344618.2	362569.3	372959.3	376353.2	372959.3	362569.3	344618.2	320313.6	291294.8	255131.6	210169.5
0°	348106.9	366228.3	376353.2	380199.4	376353.2	366228.3	348106.9	323597.1	294481.8	258803.9	213396.5
-2.5°	344618.2	362569.3	372959.3	376353.2	372959.3	362569.3	344618.2	320313.6	291294.8	255131.6	210169.5
-5°	333986.9	351854.8	362569.3	366228.3	362569.3	351854.8	333986.9	310826.7	281602.9	244396.6	200671.9
-7.5°	317223.5	333986.9	344618.2	348106.9	344618.2	333986.9	317223.5	294781.8	265601.4	227346.9	185405.5
-10°	294781.8	310826.7	320313.6	323597.1	320313.6	310826.7	294781.8	272206.4	241405.2	204700.6	165342.9
-12.5°	265601.4	281602.9	291294.8	294481.8	291294.8	281602.9	265601.4	241405.2	211391.2	177153.4	145287.2
-15°	227346.9	244396.6	255131.6	258803.9	255131.6	244396.6	227346.9	204700.6	177153.4	149880.7	123702.1
-17.5°	185405.5	200671.9	210169.5	213396.5	210169.5	200671.9	185405.5	165342.9	145287.2	123702.1	104124.6
-20°	146592.7	157512.2	164250.2	166529.3	164250.2	157512.2	146592.7	131895.0	117166.6	101042.7	85124.3



REPORT NUMBER: P699877 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-4S-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	114724.6	122217.7	126814.7	128364.7	126814.7	122217.7	114724.6	104560.7	92890.3	80126.6	68432.9
-25°	88261.5	94090.4	97651.3	98849.3	97651.3	94090.4	88261.5	80309.0	71407.6	63945.3	55773.4
-27.5°	67084.8	70448.0	72496.0	73183.8	72496.0	70448.0	67084.8	62476.1	56716.5	51442.0	45428.8
-30°	52478.5	54831.3	56260.6	56740.0	56260.6	54831.3	52478.5	49243.0	45177.7	40869.7	36121.0
-32.5°	40714.7	42548.5	43660.3	44032.8	43660.3	42548.5	40714.7	38186.2	34998.3	31534.6	27925.3
-35°	30646.9	32025.6	32860.2	33139.6	32860.2	32025.6	30646.9	28741.6	26332.8	23517.1	20509.2
-37.5°	22103.6	23242.1	23930.4	24160.7	23930.4	23242.1	22103.6	20527.4	18530.2	16131.9	13948.6
-40°	14583.3	15396.6	15887.8	16052.1	15887.8	15396.6	14583.3	13455.7	12024.2	10301.4	9025.3
-42.5°	9065.1	9432.6	9654.4	9728.5	9654.4	9432.6	9065.1	8554.9	7906.1	7123.9	6471.3
-45°	6396.9	6516.2	6588.2	6612.2	6588.2	6516.2	6396.9	6231.1	6020.0	5765.0	5485.6
-47.5°	5396.0	5458.9	5496.7	5509.4	5496.7	5458.9	5396.0	5308.6	5197.1	5062.4	4905.1
-50°	4760.4	4824.5	4863.1	4876.0	4863.1	4824.5	4760.4	4671.2	4557.4	4419.6	4258.6
-52.5°	4097.7	4138.6	4163.2	4171.4	4163.2	4138.6	4097.7	4040.8	3968.1	3880.0	3777.0
-55°	3618.7	3652.9	3673.5	3680.4	3673.5	3652.9	3618.7	3570.9	3509.9	3436.0	3349.3
-57.5°	3166.1	3201.4	3222.6	3229.7	3222.6	3201.4	3166.1	3117.0	3054.1	2977.8	2888.4
-60°	2658.4	2692.6	2713.1	2720.0	2713.1	2692.6	2658.4	2610.7	2549.6	2475.5	2388.6
-62.5°	2120.7	2150.7	2168.7	2174.7	2168.7	2150.7	2120.7	2078.9	2025.5	1960.5	1884.2
-65°	1602.2	1626.1	1640.5	1645.3	1640.5	1626.1	1602.2	1568.8	1526.0	1474.0	1412.9
-67.5°	1140.9	1158.8	1169.5	1173.1	1169.5	1158.8	1140.9	1116.0	1084.1	1045.2	999.6
-70°	754.1	766.7	774.2	776.7	774.2	766.7	754.1	736.6	714.2	686.9	654.8
-72.5°	447.4	454.4	458.7	460.1	458.7	454.4	447.4	437.5	424.8	409.4	391.3
-75°	246.9	250.8	253.1	253.9	253.1	250.8	246.9	241.4	234.4	225.9	215.9
-77.5°	116.8	118.5	119.6	119.9	119.6	118.5	116.8	114.4	111.3	107.6	103.2
-80°	48.0	48.4	48.6	48.7	48.6	48.4	48.0	47.4	46.6	45.7	44.7
-82.5°	26.8	27.0	27.2	27.2	27.2	27.0	26.8	26.4	26.0	25.5	24.8
-85°	10.2	10.2	10.3	10.3	10.3	10.2	10.2	10.1	9.9	9.8	9.6
-87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.7
-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: P699877 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-4S-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°	2.6	2.6	2.5	2.5	2.4	2.4	2.3	2.2	2.1	2.1	2.0
85°	9.4	9.2	8.9	8.6	8.3	7.9	7.6	7.2	6.8	6.4	5.9
82.5°	24.1	23.3	22.4	21.4	20.4	19.2	18.0	16.7	15.3	13.8	12.3
80°	43.5	42.1	40.6	38.9	37.1	35.1	33.0	30.8	28.4	26.2	24.2
77.5°	98.1	92.4	86.1	79.1	71.6	63.5	54.7	47.7	44.8	41.7	38.4
75°	204.4	191.4	177.1	161.3	144.2	125.7	112.5	101.4	89.6	77.2	64.2
72.5°	370.5	347.1	321.1	292.6	261.7	237.4	214.2	189.7	163.7	136.5	113.5
70°	618.1	576.6	530.7	480.4	437.8	399.5	358.7	315.3	269.5	232.8	200.1
67.5°	947.3	888.5	823.2	756.8	695.0	628.5	557.5	482.2	422.7	368.4	311.6
65°	1342.9	1264.2	1177.1	1096.4	1009.6	916.4	817.0	724.8	636.1	543.0	450.8
62.5°	1796.8	1698.7	1596.0	1490.1	1375.4	1252.3	1129.5	1012.9	890.1	764.5	657.3
60°	2289.1	2177.4	2057.4	1926.5	1784.8	1634.3	1490.1	1337.5	1177.1	1035.4	888.5
57.5°	2786.2	2668.1	2532.6	2384.7	2225.0	2057.4	1880.8	1694.2	1514.0	1331.2	1146.0
55°	3250.4	3127.7	2989.4	2838.6	2672.9	2486.7	2289.1	2083.2	1870.8	1648.9	1442.7
52.5°	3661.1	3540.4	3407.4	3262.5	3090.4	2901.9	2700.8	2475.5	2239.5	1998.6	1750.5
50°	4104.3	3961.5	3804.3	3637.4	3468.7	3288.9	3081.3	2854.8	2610.7	2346.7	2076.0
47.5°	4709.3	4487.3	4243.4	4037.2	3839.2	3632.7	3428.3	3211.5	2957.9	2692.6	2400.7
45°	5291.8	5076.0	4835.3	4550.4	4245.0	3996.6	3758.2	3522.5	3283.4	3009.9	2720.0
42.5°	6106.4	5700.8	5364.6	5089.3	4785.8	4438.8	4103.2	3837.0	3570.0	3306.8	3009.9
40°	7910.8	6675.5	6157.5	5643.4	5271.4	4938.4	4556.5	4157.0	3863.4	3570.0	3283.4
37.5°	11506.1	9274.0	7826.1	6491.2	5905.6	5382.3	5010.9	4596.0	4157.0	3837.0	3522.5
35°	17127.4	13984.8	10832.8	8608.9	6844.9	6038.2	5419.5	5010.9	4556.5	4103.2	3758.2
32.5°	23909.2	19901.0	15675.7	12070.3	9005.3	7037.9	6038.2	5382.3	4938.4	4438.8	3996.6
30°	31231.2	26459.1	21598.7	16669.0	12486.5	9005.3	6844.9	5905.6	5271.4	4785.8	4245.0
27.5°	39509.0	33287.3	27768.9	22170.4	16669.0	12070.3	8608.9	6491.2	5643.4	5089.3	4550.4
25°	48565.0	41235.9	34118.1	27768.9	21598.7	15675.7	10832.8	7826.1	6157.5	5364.6	4835.3
22.5°	58357.0	49625.4	41235.9	33287.3	26459.1	19901.0	13984.8	9274.0	6675.5	5700.8	5076.0
20°	69955.0	58357.0	48565.0	39509.0	31231.2	23909.2	17127.4	11506.1	7910.8	6106.4	5291.8
17.5°	85124.3	68432.9	55773.4	45428.8	36121.0	27925.3	20509.2	13948.6	9025.3	6471.3	5485.6
15°	101042.7	80126.6	63945.3	51442.0	40869.7	31534.6	23517.1	16131.9	10301.4	7123.9	5765.0
12.5°	117166.6	92890.3	71407.6	56716.5	45177.7	34998.3	26332.8	18530.2	12024.2	7906.1	6020.0
10°	131895.0	104560.7	80309.0	62476.1	49243.0	38186.2	28741.6	20527.4	13455.7	8554.9	6231.1
7.5°	146592.7	114724.6	88261.5	67084.8	52478.5	40714.7	30646.9	22103.6	14583.3	9065.1	6396.9
5°	157512.2	122217.7	94090.4	70448.0	54831.3	42548.5	32025.6	23242.1	15396.6	9432.6	6516.2
2.5°	164250.2	126814.7	97651.3	72496.0	56260.6	43660.3	32860.2	23930.4	15887.8	9654.4	6588.2
0°	166529.3	128364.7	98849.3	73183.8	56740.0	44032.8	33139.6	24160.7	16052.1	9728.5	6612.2
-2.5°	164250.2	126814.7	97651.3	72496.0	56260.6	43660.3	32860.2	23930.4	15887.8	9654.4	6588.2
-5°	157512.2	122217.7	94090.4	70448.0	54831.3	42548.5	32025.6	23242.1	15396.6	9432.6	6516.2
-7.5°	146592.7	114724.6	88261.5	67084.8	52478.5	40714.7	30646.9	22103.6	14583.3	9065.1	6396.9
-10°	131895.0	104560.7	80309.0	62476.1	49243.0	38186.2	28741.6	20527.4	13455.7	8554.9	6231.1
-12.5°	117166.6	92890.3	71407.6	56716.5	45177.7	34998.3	26332.8	18530.2	12024.2	7906.1	6020.0
-15°	101042.7	80126.6	63945.3	51442.0	40869.7	31534.6	23517.1	16131.9	10301.4	7123.9	5765.0
-17.5°	85124.3	68432.9	55773.4	45428.8	36121.0	27925.3	20509.2	13948.6	9025.3	6471.3	5485.6
-20°	69955.0	58357.0	48565.0	39509.0	31231.2	23909.2	17127.4	11506.1	7910.8	6106.4	5291.8



REPORT NUMBER: P699877 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-4S-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	58357.0	49625.4	41235.9	33287.3	26459.1	19901.0	13984.8	9274.0	6675.5	5700.8	5076.0
-25°	48565.0	41235.9	34118.1	27768.9	21598.7	15675.7	10832.8	7826.1	6157.5	5364.6	4835.3
-27.5°	39509.0	33287.3	27768.9	22170.4	16669.0	12070.3	8608.9	6491.2	5643.4	5089.3	4550.4
-30°	31231.2	26459.1	21598.7	16669.0	12486.5	9005.3	6844.9	5905.6	5271.4	4785.8	4245.0
-32.5°	23909.2	19901.0	15675.7	12070.3	9005.3	7037.9	6038.2	5382.3	4938.4	4438.8	3996.6
-35°	17127.4	13984.8	10832.8	8608.9	6844.9	6038.2	5419.5	5010.9	4556.5	4103.2	3758.2
-37.5°	11506.1	9274.0	7826.1	6491.2	5905.6	5382.3	5010.9	4596.0	4157.0	3837.0	3522.5
-40°	7910.8	6675.5	6157.5	5643.4	5271.4	4938.4	4556.5	4157.0	3863.4	3570.0	3283.4
-42.5°	6106.4	5700.8	5364.6	5089.3	4785.8	4438.8	4103.2	3837.0	3570.0	3306.8	3009.9
-45°	5291.8	5076.0	4835.3	4550.4	4245.0	3996.6	3758.2	3522.5	3283.4	3009.9	2720.0
-47.5°	4709.3	4487.3	4243.4	4037.2	3839.2	3632.7	3428.3	3211.5	2957.9	2692.6	2400.7
-50°	4104.3	3961.5	3804.3	3637.4	3468.7	3288.9	3081.3	2854.8	2610.7	2346.7	2076.0
-52.5°	3661.1	3540.4	3407.4	3262.5	3090.4	2901.9	2700.8	2475.5	2239.5	1998.6	1750.5
-55°	3250.4	3127.7	2989.4	2838.6	2672.9	2486.7	2289.1	2083.2	1870.8	1648.9	1442.7
-57.5°	2786.2	2668.1	2532.6	2384.7	2225.0	2057.4	1880.8	1694.2	1514.0	1331.2	1146.0
-60°	2289.1	2177.4	2057.4	1926.5	1784.8	1634.3	1490.1	1337.5	1177.1	1035.4	888.5
-62.5°	1796.8	1698.7	1596.0	1490.1	1375.4	1252.3	1129.5	1012.9	890.1	764.5	657.3
-65°	1342.9	1264.2	1177.1	1096.4	1009.6	916.4	817.0	724.8	636.1	543.0	450.8
-67.5°	947.3	888.5	823.2	756.8	695.0	628.5	557.5	482.2	422.7	368.4	311.6
-70°	618.1	576.6	530.7	480.4	437.8	399.5	358.7	315.3	269.5	232.8	200.1
-72.5°	370.5	347.1	321.1	292.6	261.7	237.4	214.2	189.7	163.7	136.5	113.5
-75°	204.4	191.4	177.1	161.3	144.2	125.7	112.5	101.4	89.6	77.2	64.2
-77.5°	98.1	92.4	86.1	79.1	71.6	63.5	54.7	47.7	44.8	41.7	38.4
-80°	43.5	42.1	40.6	38.9	37.1	35.1	33.0	30.8	28.4	26.2	24.2
-82.5°	24.1	23.3	22.4	21.4	20.4	19.2	18.0	16.7	15.3	13.8	12.3
-85°	9.4	9.2	8.9	8.6	8.3	7.9	7.6	7.2	6.8	6.4	5.9
-87.5°	2.6	2.6	2.5	2.5	2.4	2.4	2.3	2.2	2.1	2.1	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



REPORT NUMBER: P699877 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-4S-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°	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.8
85°	5.4	4.9	4.4	3.9	3.4	2.8	2.6	2.4	2.1	1.9	1.7
82.5°	10.7	9.7	9.0	8.2	7.4	6.5	5.7	4.8	3.9	3.0	2.5
80°	22.0	19.8	17.5	15.1	12.7	10.2	9.1	7.9	6.7	5.5	4.3
77.5°	35.0	31.5	27.8	24.7	21.6	18.5	15.3	12.0	9.6	8.0	6.5
75°	50.7	45.1	40.7	36.1	31.4	26.8	22.9	19.0	14.9	10.8	8.7
72.5°	97.7	81.3	64.3	48.1	42.7	37.1	31.3	25.9	21.2	16.4	11.6
70°	166.0	130.6	106.2	86.1	65.5	47.4	40.8	34.2	27.4	21.9	16.4
67.5°	253.0	213.2	172.0	129.5	101.8	78.1	53.8	42.7	35.1	27.4	21.2
65°	385.0	316.8	249.0	201.8	153.4	111.3	84.4	56.9	42.7	34.2	25.9
62.5°	545.8	440.8	363.2	283.4	219.9	165.4	114.5	84.4	53.8	40.8	31.3
60°	744.1	618.1	488.1	391.3	302.1	225.9	165.4	111.3	78.1	47.4	37.1
57.5°	980.3	809.1	661.7	517.1	400.7	302.1	219.9	153.4	101.8	65.5	42.7
55°	1229.6	1035.9	845.9	676.3	517.1	391.3	283.4	201.8	129.5	86.1	48.1
52.5°	1510.2	1274.3	1054.5	845.9	661.7	488.1	363.2	249.0	172.0	106.2	64.3
50°	1801.6	1532.8	1274.3	1035.9	809.1	618.1	440.8	316.8	213.2	130.6	81.3
47.5°	2102.0	1801.6	1510.2	1229.6	980.3	744.1	545.8	385.0	253.0	166.0	97.7
45°	2400.7	2076.0	1750.5	1442.7	1146.0	888.5	657.3	450.8	311.6	200.1	113.5
42.5°	2692.6	2346.7	1998.6	1648.9	1331.2	1035.4	764.5	543.0	368.4	232.8	136.5
40°	2957.9	2610.7	2239.5	1870.8	1514.0	1177.1	890.1	636.1	422.7	269.5	163.7
37.5°	3211.5	2854.8	2475.5	2083.2	1694.2	1337.5	1012.9	724.8	482.2	315.3	189.7
35°	3428.3	3081.3	2700.8	2289.1	1880.8	1490.1	1129.5	817.0	557.5	358.7	214.2
32.5°	3632.7	3288.9	2901.9	2486.7	2057.4	1634.3	1252.3	916.4	628.5	399.5	237.4
30°	3839.2	3468.7	3090.4	2672.9	2225.0	1784.8	1375.4	1009.6	695.0	437.8	261.7
27.5°	4037.2	3637.4	3262.5	2838.6	2384.7	1926.5	1490.1	1096.4	756.8	480.4	292.6
25°	4243.4	3804.3	3407.4	2989.4	2532.6	2057.4	1596.0	1177.1	823.2	530.7	321.1
22.5°	4487.3	3961.5	3540.4	3127.7	2668.1	2177.4	1698.7	1264.2	888.5	576.6	347.1
20°	4709.3	4104.3	3661.1	3250.4	2786.2	2289.1	1796.8	1342.9	947.3	618.1	370.5
17.5°	4905.1	4258.6	3777.0	3349.3	2888.4	2388.6	1884.2	1412.9	999.6	654.8	391.3
15°	5062.4	4419.6	3880.0	3436.0	2977.8	2475.5	1960.5	1474.0	1045.2	686.9	409.4
12.5°	5197.1	4557.4	3968.1	3509.9	3054.1	2549.6	2025.5	1526.0	1084.1	714.2	424.8
10°	5308.6	4671.2	4040.8	3570.9	3117.0	2610.7	2078.9	1568.8	1116.0	736.6	437.5
7.5°	5396.0	4760.4	4097.7	3618.7	3166.1	2658.4	2120.7	1602.2	1140.9	754.1	447.4
5°	5458.9	4824.5	4138.6	3652.9	3201.4	2692.6	2150.7	1626.1	1158.8	766.7	454.4
2.5°	5496.7	4863.1	4163.2	3673.5	3222.6	2713.1	2168.7	1640.5	1169.5	774.2	458.7
0°	5509.4	4876.0	4171.4	3680.4	3229.7	2720.0	2174.7	1645.3	1173.1	776.7	460.1
-2.5°	5496.7	4863.1	4163.2	3673.5	3222.6	2713.1	2168.7	1640.5	1169.5	774.2	458.7
-5°	5458.9	4824.5	4138.6	3652.9	3201.4	2692.6	2150.7	1626.1	1158.8	766.7	454.4
-7.5°	5396.0	4760.4	4097.7	3618.7	3166.1	2658.4	2120.7	1602.2	1140.9	754.1	447.4
-10°	5308.6	4671.2	4040.8	3570.9	3117.0	2610.7	2078.9	1568.8	1116.0	736.6	437.5
-12.5°	5197.1	4557.4	3968.1	3509.9	3054.1	2549.6	2025.5	1526.0	1084.1	714.2	424.8
-15°	5062.4	4419.6	3880.0	3436.0	2977.8	2475.5	1960.5	1474.0	1045.2	686.9	409.4
-17.5°	4905.1	4258.6	3777.0	3349.3	2888.4	2388.6	1884.2	1412.9	999.6	654.8	391.3
-20°	4709.3	4104.3	3661.1	3250.4	2786.2	2289.1	1796.8	1342.9	947.3	618.1	370.5



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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°	4487.3	3961.5	3540.4	3127.7	2668.1	2177.4	1698.7	1264.2	888.5	576.6	347.1
-25°	4243.4	3804.3	3407.4	2989.4	2532.6	2057.4	1596.0	1177.1	823.2	530.7	321.1
-27.5°	4037.2	3637.4	3262.5	2838.6	2384.7	1926.5	1490.1	1096.4	756.8	480.4	292.6
-30°	3839.2	3468.7	3090.4	2672.9	2225.0	1784.8	1375.4	1009.6	695.0	437.8	261.7
-32.5°	3632.7	3288.9	2901.9	2486.7	2057.4	1634.3	1252.3	916.4	628.5	399.5	237.4
-35°	3428.3	3081.3	2700.8	2289.1	1880.8	1490.1	1129.5	817.0	557.5	358.7	214.2
-37.5°	3211.5	2854.8	2475.5	2083.2	1694.2	1337.5	1012.9	724.8	482.2	315.3	189.7
-40°	2957.9	2610.7	2239.5	1870.8	1514.0	1177.1	890.1	636.1	422.7	269.5	163.7
-42.5°	2692.6	2346.7	1998.6	1648.9	1331.2	1035.4	764.5	543.0	368.4	232.8	136.5
-45°	2400.7	2076.0	1750.5	1442.7	1146.0	888.5	657.3	450.8	311.6	200.1	113.5
-47.5°	2102.0	1801.6	1510.2	1229.6	980.3	744.1	545.8	385.0	253.0	166.0	97.7
-50°	1801.6	1532.8	1274.3	1035.9	809.1	618.1	440.8	316.8	213.2	130.6	81.3
-52.5°	1510.2	1274.3	1054.5	845.9	661.7	488.1	363.2	249.0	172.0	106.2	64.3
-55°	1229.6	1035.9	845.9	676.3	517.1	391.3	283.4	201.8	129.5	86.1	48.1
-57.5°	980.3	809.1	661.7	517.1	400.7	302.1	219.9	153.4	101.8	65.5	42.7
-60°	744.1	618.1	488.1	391.3	302.1	225.9	165.4	111.3	78.1	47.4	37.1
-62.5°	545.8	440.8	363.2	283.4	219.9	165.4	114.5	84.4	53.8	40.8	31.3
-65°	385.0	316.8	249.0	201.8	153.4	111.3	84.4	56.9	42.7	34.2	25.9
-67.5°	253.0	213.2	172.0	129.5	101.8	78.1	53.8	42.7	35.1	27.4	21.2
-70°	166.0	130.6	106.2	86.1	65.5	47.4	40.8	34.2	27.4	21.9	16.4
-72.5°	97.7	81.3	64.3	48.1	42.7	37.1	31.3	25.9	21.2	16.4	11.6
-75°	50.7	45.1	40.7	36.1	31.4	26.8	22.9	19.0	14.9	10.8	8.7
-77.5°	35.0	31.5	27.8	24.7	21.6	18.5	15.3	12.0	9.6	8.0	6.5
-80°	22.0	19.8	17.5	15.1	12.7	10.2	9.1	7.9	6.7	5.5	4.3
-82.5°	10.7	9.7	9.0	8.2	7.4	6.5	5.7	4.8	3.9	3.0	2.5
-85°	5.4	4.9	4.4	3.9	3.4	2.8	2.6	2.4	2.1	1.9	1.7
-87.5°	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.8
-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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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°	0.7	0.6	0.5	0.4	0.2	0.1	0.0
85°	1.4	1.2	1.0	0.7	0.5	0.2	0.0
82.5°	2.2	1.8	1.5	1.1	0.7	0.4	0.0
80°	3.0	2.4	1.9	1.5	1.0	0.5	0.0
77.5°	4.9	3.4	2.4	1.8	1.2	0.6	0.0
75°	6.8	4.9	3.0	2.2	1.4	0.7	0.0
72.5°	8.7	6.5	4.3	2.5	1.7	0.8	0.0
70°	10.8	8.0	5.5	3.0	1.9	1.0	0.0
67.5°	14.9	9.6	6.7	3.9	2.1	1.1	0.0
65°	19.0	12.0	7.9	4.8	2.4	1.2	0.0
62.5°	22.9	15.3	9.1	5.7	2.6	1.3	0.0
60°	26.8	18.5	10.2	6.5	2.8	1.4	0.0
57.5°	31.4	21.6	12.7	7.4	3.4	1.5	0.0
55°	36.1	24.7	15.1	8.2	3.9	1.6	0.0
52.5°	40.7	27.8	17.5	9.0	4.4	1.7	0.0
50°	45.1	31.5	19.8	9.7	4.9	1.8	0.0
47.5°	50.7	35.0	22.0	10.7	5.4	1.9	0.0
45°	64.2	38.4	24.2	12.3	5.9	2.0	0.0
42.5°	77.2	41.7	26.2	13.8	6.4	2.1	0.0
40°	89.6	44.8	28.4	15.3	6.8	2.1	0.0
37.5°	101.4	47.7	30.8	16.7	7.2	2.2	0.0
35°	112.5	54.7	33.0	18.0	7.6	2.3	0.0
32.5°	125.7	63.5	35.1	19.2	7.9	2.4	0.0
30°	144.2	71.6	37.1	20.4	8.3	2.4	0.0
27.5°	161.3	79.1	38.9	21.4	8.6	2.5	0.0
25°	177.1	86.1	40.6	22.4	8.9	2.5	0.0
22.5°	191.4	92.4	42.1	23.3	9.2	2.6	0.0
20°	204.4	98.1	43.5	24.1	9.4	2.6	0.0
17.5°	215.9	103.2	44.7	24.8	9.6	2.7	0.0
15°	225.9	107.6	45.7	25.5	9.8	2.7	0.0
12.5°	234.4	111.3	46.6	26.0	9.9	2.7	0.0
10°	241.4	114.4	47.4	26.4	10.1	2.8	0.0
7.5°	246.9	116.8	48.0	26.8	10.2	2.8	0.0
5°	250.8	118.5	48.4	27.0	10.2	2.8	0.0
2.5°	253.1	119.6	48.6	27.2	10.3	2.8	0.0
0°	253.9	119.9	48.7	27.2	10.3	2.8	0.0
-2.5°	253.1	119.6	48.6	27.2	10.3	2.8	0.0
-5°	250.8	118.5	48.4	27.0	10.2	2.8	0.0
-7.5°	246.9	116.8	48.0	26.8	10.2	2.8	0.0
-10°	241.4	114.4	47.4	26.4	10.1	2.8	0.0
-12.5°	234.4	111.3	46.6	26.0	9.9	2.7	0.0
-15°	225.9	107.6	45.7	25.5	9.8	2.7	0.0
-17.5°	215.9	103.2	44.7	24.8	9.6	2.7	0.0
-20°	204.4	98.1	43.5	24.1	9.4	2.6	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	191.4	92.4	42.1	23.3	9.2	2.6	0.0
-25°	177.1	86.1	40.6	22.4	8.9	2.5	0.0
-27.5°	161.3	79.1	38.9	21.4	8.6	2.5	0.0
-30°	144.2	71.6	37.1	20.4	8.3	2.4	0.0
-32.5°	125.7	63.5	35.1	19.2	7.9	2.4	0.0
-35°	112.5	54.7	33.0	18.0	7.6	2.3	0.0
-37.5°	101.4	47.7	30.8	16.7	7.2	2.2	0.0
-40°	89.6	44.8	28.4	15.3	6.8	2.1	0.0
-42.5°	77.2	41.7	26.2	13.8	6.4	2.1	0.0
-45°	64.2	38.4	24.2	12.3	5.9	2.0	0.0
-47.5°	50.7	35.0	22.0	10.7	5.4	1.9	0.0
-50°	45.1	31.5	19.8	9.7	4.9	1.8	0.0
-52.5°	40.7	27.8	17.5	9.0	4.4	1.7	0.0
-55°	36.1	24.7	15.1	8.2	3.9	1.6	0.0
-57.5°	31.4	21.6	12.7	7.4	3.4	1.5	0.0
-60°	26.8	18.5	10.2	6.5	2.8	1.4	0.0
-62.5°	22.9	15.3	9.1	5.7	2.6	1.3	0.0
-65°	19.0	12.0	7.9	4.8	2.4	1.2	0.0
-67.5°	14.9	9.6	6.7	3.9	2.1	1.1	0.0
-70°	10.8	8.0	5.5	3.0	1.9	1.0	0.0
-72.5°	8.7	6.5	4.3	2.5	1.7	0.8	0.0
-75°	6.8	4.9	3.0	2.2	1.4	0.7	0.0
-77.5°	4.9	3.4	2.4	1.8	1.2	0.6	0.0
-80°	3.0	2.4	1.9	1.5	1.0	0.5	0.0
-82.5°	2.2	1.8	1.5	1.1	0.7	0.4	0.0
-85°	1.4	1.2	1.0	0.7	0.5	0.2	0.0
-87.5°	0.7	0.6	0.5	0.4	0.2	0.1	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)