

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: P699950 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200R-40-80-2S-S**

Issue Date: 8/10/2023

Test Information

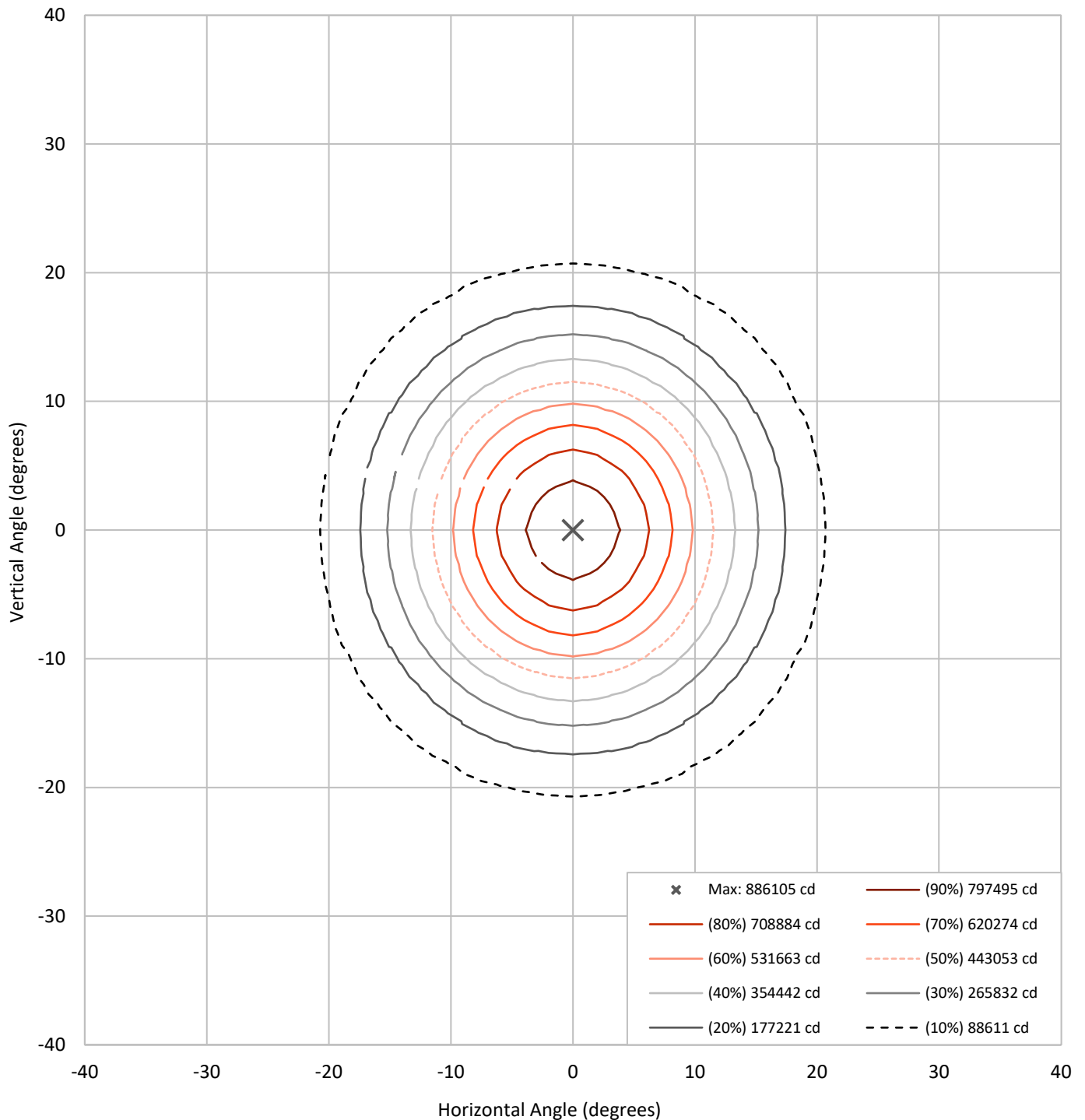
Test Method: LM-79-08
Report Number: P699950 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-10)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200R-40-80-2S-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 4000K, 80 CRI LEDS AND 2S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	177925.5 lumens	Max Intensity:	886105 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	142.0 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	23.1°H x 23.1°V	Field Angle (10%):	41.4°H x 41.4°V
Beam Lumens:	80156.5 lumens	Field Lumens:	141411.7 lumens
Beam Efficiency:	45.1%	Field Efficiency:	79.5%
Input Watts (W):	1253.1		
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





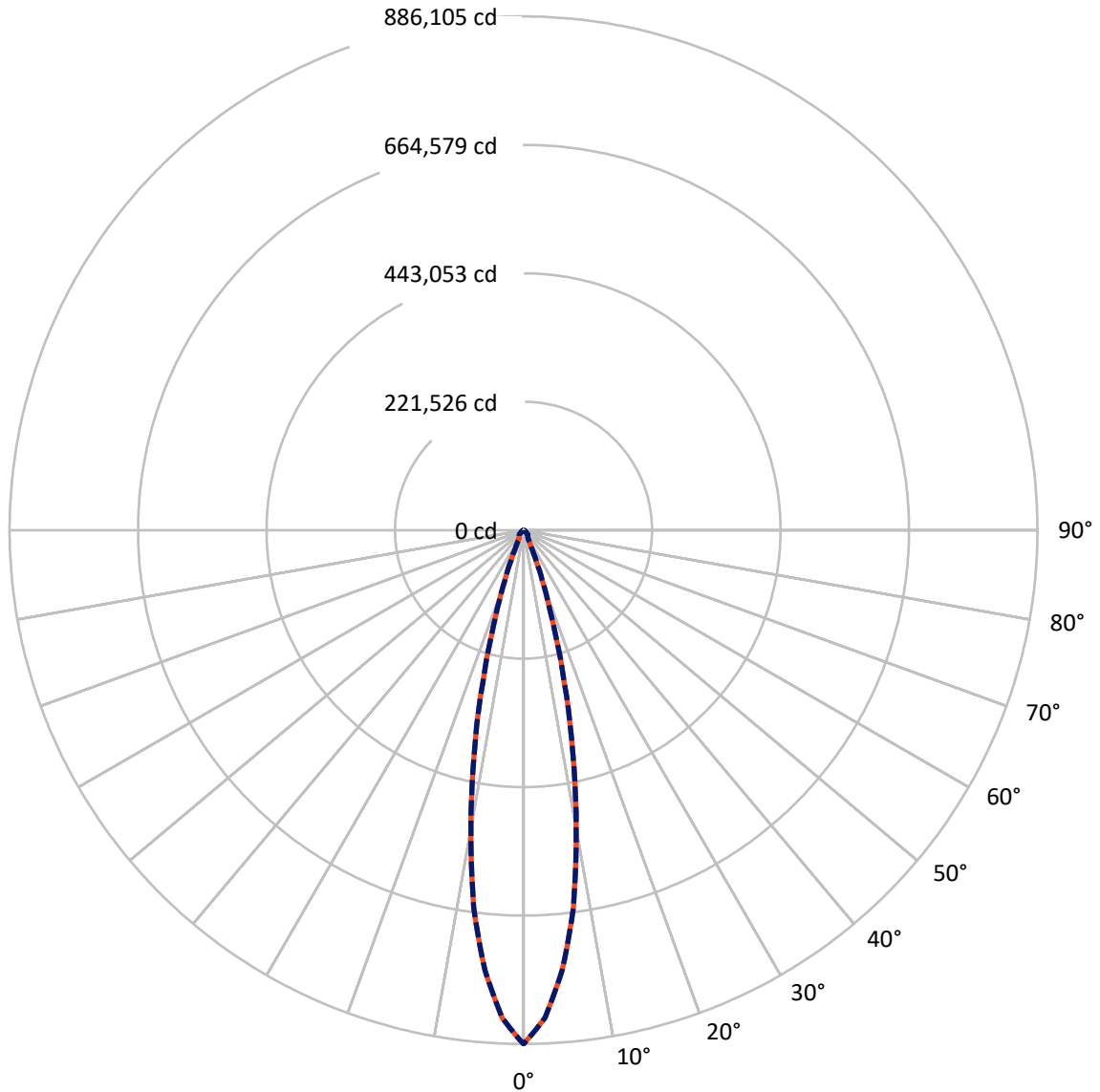
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Lumen Table

90																
80	0.3	2.1		7.8		18.7		24.2		18.7		7.8		2.1		0.3
70																
60	1.0	1.2	4.6	12.8	24.5	37.1	47.6	53.5	53.5	47.6	37.1	24.5	12.8	4.6	1.2	1.0
50		3.5	14.5	34.1	59.3	84.6	103.6	113.7	113.7	103.6	84.6	59.3	34.1	14.5	3.5	
40	2.6	7.9	27.9	60.3	97.3	156.2	230.0	272.1	272.1	230.0	156.2	97.3	60.3	27.9	7.9	2.6
30		13.0	41.9	84.2	179.0	298.3	363.0	398.4	398.4	363.0	298.3	179.0	84.2	41.9	13.0	
20	5.4	17.8	54.1	123.0	270.0	368.7	579.0	1091.3	1091.3	579.0	368.7	270.0	123.0	54.1	17.8	5.4
10		21.5	62.1	170.4	308.4	545.3	727.5	7374.9	7374.9	727.5	545.3	308.4	170.4	62.1	21.5	
0	6.7	23.4	66.1	195.1	328.4	1004.2	7185.3	19089.4	19089.4	7185.3	1004.2	328.4	195.1	66.1	23.4	6.7
-10		23.4	66.1	195.1	328.4	1004.2	7185.3	19089.4	19089.4	7185.3	1004.2	328.4	195.1	66.1	23.4	
-20	5.4	21.5	62.1	170.4	308.4	545.3	727.5	7374.9	7374.9	727.5	545.3	308.4	170.4	62.1	21.5	5.4
-30		17.8	54.1	123.0	270.0	368.7	579.0	1091.3	1091.3	579.0	368.7	270.0	123.0	54.1	17.8	
-40	2.6	13.0	41.9	84.2	179.0	298.3	363.0	398.4	398.4	363.0	298.3	179.0	84.2	41.9	13.0	2.6
-50		7.9	27.9	60.3	97.3	156.2	230.0	272.1	272.1	230.0	156.2	97.3	60.3	27.9	7.9	
-60	1.0	3.5	14.5	34.1	59.3	84.6	103.6	113.7	113.7	103.6	84.6	59.3	34.1	14.5	3.5	1.0
-70		1.2	4.6	12.8	24.5	37.1	47.6	53.5	53.5	47.6	37.1	24.5	12.8	4.6	1.2	
-80																
-90	0.3	2.1		7.8		18.7		24.2		18.7		7.8		2.1		0.3

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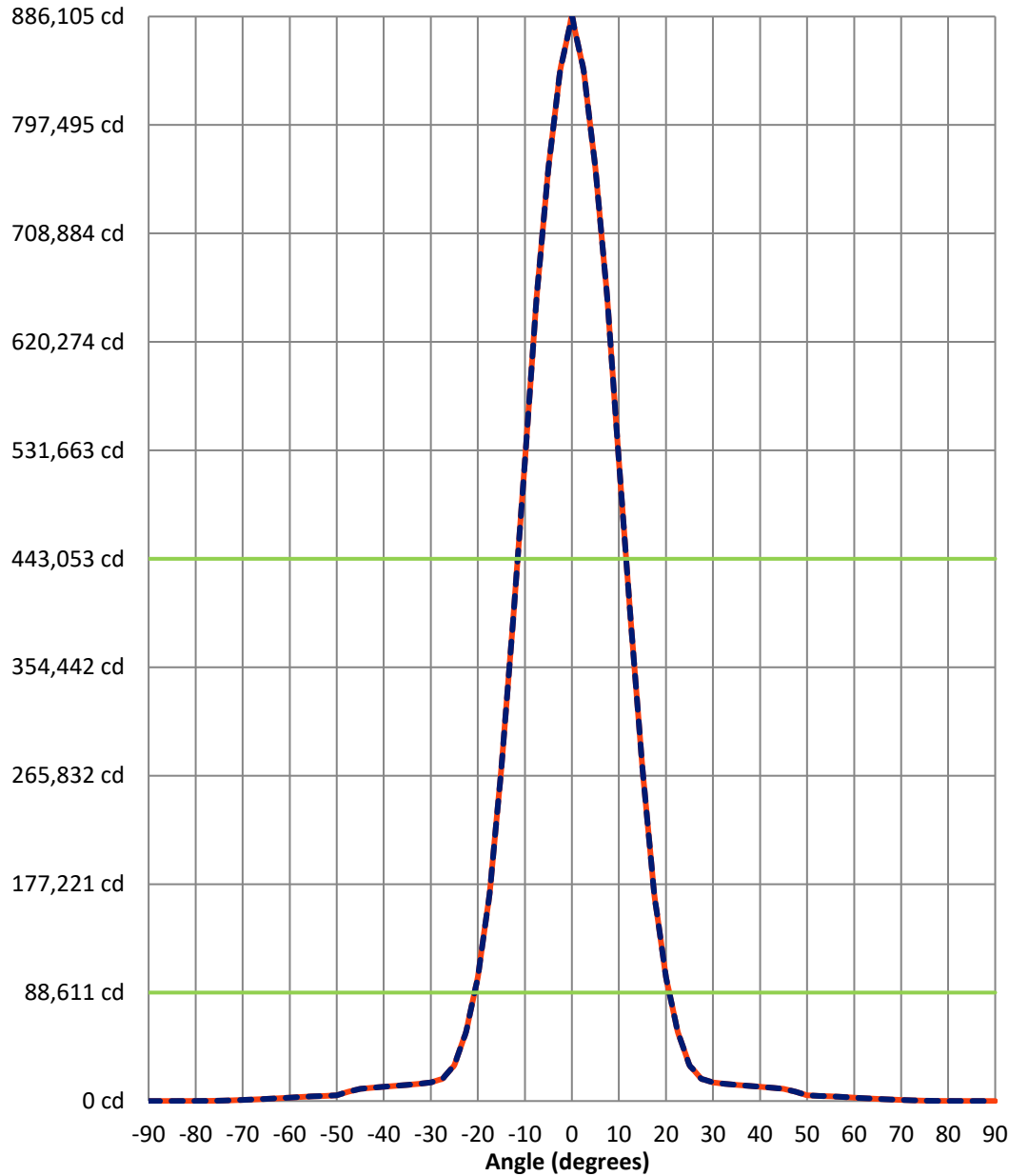
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 23.1°
 V Angle: 23.1°
 Lumens: 80156.5
 Efficiency: 45.1%

Field:
 H Angle: 41.4°
 V Angle: 41.4°
 Lumens: 141411.7
 Efficiency: 79.5%

Spill:
 Lumens: 36513.9
 Efficiency: 20.5%

— 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	0.8	1.6	2.4	3.1	3.9	4.7	5.4	6.2	6.9	7.6
85°	0.0	1.6	3.2	4.7	6.3	7.8	9.4	10.9	12.4	13.8	15.3
82.5°	0.0	2.4	4.7	7.1	9.4	11.7	14.0	16.3	18.4	20.0	21.6
80°	0.0	3.1	6.3	9.4	12.5	15.6	18.5	20.7	22.9	25.1	27.2
77.5°	0.0	3.9	7.8	11.7	15.6	19.1	21.9	24.7	27.4	30.1	33.1
75°	0.0	4.7	9.4	14.0	18.5	21.9	25.2	28.5	31.9	36.1	40.2
72.5°	0.0	5.4	10.9	16.3	20.7	24.7	28.5	32.7	37.6	42.4	47.1
70°	0.0	6.2	12.4	18.4	22.9	27.4	31.9	37.6	43.1	48.7	55.6
67.5°	0.0	6.9	13.8	20.0	25.1	30.1	36.1	42.4	48.7	56.5	64.3
65°	0.0	7.6	15.3	21.6	27.2	33.1	40.2	47.1	55.6	64.3	77.2
62.5°	0.0	8.4	16.7	23.2	29.3	36.4	44.1	52.7	62.3	74.6	100.3
60°	0.0	9.0	18.1	24.7	31.3	39.7	48.1	58.5	69.0	95.0	123.0
57.5°	0.0	9.7	19.1	26.2	33.8	42.9	52.8	64.2	84.4	115.0	171.7
55°	0.0	10.4	20.0	27.6	36.3	46.0	57.5	69.7	101.8	142.1	231.8
52.5°	0.0	11.0	21.0	29.0	38.7	49.1	62.1	83.4	118.6	194.8	290.3
50°	0.0	11.6	21.9	30.4	41.0	52.8	66.6	97.7	143.5	245.9	380.5
47.5°	0.0	12.2	22.8	31.8	43.3	56.4	72.0	111.5	187.4	295.3	471.7
45°	0.0	12.8	23.6	33.4	45.4	59.9	83.4	124.8	229.6	373.6	559.6
42.5°	0.0	13.3	24.4	35.0	47.5	63.2	94.3	150.7	270.2	449.4	661.6
40°	0.0	13.9	25.2	36.5	49.8	66.3	104.7	184.6	317.2	522.0	762.1
37.5°	0.0	14.4	25.9	37.9	52.1	69.3	114.6	216.8	378.4	595.8	857.9
35°	0.0	14.8	26.6	39.2	54.4	75.4	124.0	247.2	436.4	677.2	954.1
32.5°	0.0	15.3	27.2	40.4	56.5	82.7	137.4	275.9	491.0	753.9	1053.0
30°	0.0	15.7	27.8	41.6	58.5	89.6	160.3	306.9	542.2	825.7	1145.7
27.5°	0.0	16.1	28.4	42.7	60.4	95.9	181.5	348.2	594.0	892.5	1232.0
25°	0.0	16.4	28.9	43.7	62.1	101.7	201.1	386.2	648.3	960.3	1312.1
22.5°	0.0	16.7	29.4	44.6	63.6	107.1	218.9	421.0	697.9	1025.2	1395.6
20°	0.0	17.0	29.8	45.4	65.0	111.9	235.0	452.2	742.6	1083.7	1470.9
17.5°	0.0	17.3	30.2	46.1	66.2	116.1	249.2	480.0	782.4	1135.7	1537.9
15°	0.0	17.5	30.5	46.7	67.3	119.8	261.7	504.3	817.0	1181.1	1596.4
12.5°	0.0	17.7	30.8	47.3	68.2	123.0	272.2	524.8	846.5	1219.8	1646.2
10°	0.0	17.8	31.0	47.7	69.0	125.6	280.9	541.8	870.7	1251.5	1687.2
7.5°	0.0	17.9	31.2	48.1	69.5	127.6	287.7	555.0	889.6	1276.3	1719.2
5°	0.0	18.0	31.3	48.3	70.0	129.0	292.5	564.4	903.1	1294.1	1742.1
2.5°	0.0	18.1	31.4	48.5	70.2	129.9	295.4	570.1	911.3	1304.7	1755.9
0°	0.0	18.1	31.4	48.5	70.3	130.2	296.4	572.0	914.0	1308.3	1760.5
-2.5°	0.0	18.1	31.4	48.5	70.2	129.9	295.4	570.1	911.3	1304.7	1755.9
-5°	0.0	18.0	31.3	48.3	70.0	129.0	292.5	564.4	903.1	1294.1	1742.1
-7.5°	0.0	17.9	31.2	48.1	69.5	127.6	287.7	555.0	889.6	1276.3	1719.2
-10°	0.0	17.8	31.0	47.7	69.0	125.6	280.9	541.8	870.7	1251.5	1687.2
-12.5°	0.0	17.7	30.8	47.3	68.2	123.0	272.2	524.8	846.5	1219.8	1646.2
-15°	0.0	17.5	30.5	46.7	67.3	119.8	261.7	504.3	817.0	1181.1	1596.4
-17.5°	0.0	17.3	30.2	46.1	66.2	116.1	249.2	480.0	782.4	1135.7	1537.9
-20°	0.0	17.0	29.8	45.4	65.0	111.9	235.0	452.2	742.6	1083.7	1470.9



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 CATALOG NUMBER: EPH-LS-16-1200R-40-80-2S-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	16.7	29.4	44.6	63.6	107.1	218.9	421.0	697.9	1025.2	1395.6
-25°	0.0	16.4	28.9	43.7	62.1	101.7	201.1	386.2	648.3	960.3	1312.1
-27.5°	0.0	16.1	28.4	42.7	60.4	95.9	181.5	348.2	594.0	892.5	1232.0
-30°	0.0	15.7	27.8	41.6	58.5	89.6	160.3	306.9	542.2	825.7	1145.7
-32.5°	0.0	15.3	27.2	40.4	56.5	82.7	137.4	275.9	491.0	753.9	1053.0
-35°	0.0	14.8	26.6	39.2	54.4	75.4	124.0	247.2	436.4	677.2	954.1
-37.5°	0.0	14.4	25.9	37.9	52.1	69.3	114.6	216.8	378.4	595.8	857.9
-40°	0.0	13.9	25.2	36.5	49.8	66.3	104.7	184.6	317.2	522.0	762.1
-42.5°	0.0	13.3	24.4	35.0	47.5	63.2	94.3	150.7	270.2	449.4	661.6
-45°	0.0	12.8	23.6	33.4	45.4	59.9	83.4	124.8	229.6	373.6	559.6
-47.5°	0.0	12.2	22.8	31.8	43.3	56.4	72.0	111.5	187.4	295.3	471.7
-50°	0.0	11.6	21.9	30.4	41.0	52.8	66.6	97.7	143.5	245.9	380.5
-52.5°	0.0	11.0	21.0	29.0	38.7	49.1	62.1	83.4	118.6	194.8	290.3
-55°	0.0	10.4	20.0	27.6	36.3	46.0	57.5	69.7	101.8	142.1	231.8
-57.5°	0.0	9.7	19.1	26.2	33.8	42.9	52.8	64.2	84.4	115.0	171.7
-60°	0.0	9.0	18.1	24.7	31.3	39.7	48.1	58.5	69.0	95.0	123.0
-62.5°	0.0	8.4	16.7	23.2	29.3	36.4	44.1	52.7	62.3	74.6	100.3
-65°	0.0	7.6	15.3	21.6	27.2	33.1	40.2	47.1	55.6	64.3	77.2
-67.5°	0.0	6.9	13.8	20.0	25.1	30.1	36.1	42.4	48.7	56.5	64.3
-70°	0.0	6.2	12.4	18.4	22.9	27.4	31.9	37.6	43.1	48.7	55.6
-72.5°	0.0	5.4	10.9	16.3	20.7	24.7	28.5	32.7	37.6	42.4	47.1
-75°	0.0	4.7	9.4	14.0	18.5	21.9	25.2	28.5	31.9	36.1	40.2
-77.5°	0.0	3.9	7.8	11.7	15.6	19.1	21.9	24.7	27.4	30.1	33.1
-80°	0.0	3.1	6.3	9.4	12.5	15.6	18.5	20.7	22.9	25.1	27.2
-82.5°	0.0	2.4	4.7	7.1	9.4	11.7	14.0	16.3	18.4	20.0	21.6
-85°	0.0	1.6	3.2	4.7	6.3	7.8	9.4	10.9	12.4	13.8	15.3
-87.5°	0.0	0.8	1.6	2.4	3.1	3.9	4.7	5.4	6.2	6.9	7.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: EPH-LS-16-1200R-40-80-2S-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°	8.4	9.0	9.7	10.4	11.0	11.6	12.2	12.8	13.3	13.9	14.4
85°	16.7	18.1	19.1	20.0	21.0	21.9	22.8	23.6	24.4	25.2	25.9
82.5°	23.2	24.7	26.2	27.6	29.0	30.4	31.8	33.4	35.0	36.5	37.9
80°	29.3	31.3	33.8	36.3	38.7	41.0	43.3	45.4	47.5	49.8	52.1
77.5°	36.4	39.7	42.9	46.0	49.1	52.8	56.4	59.9	63.2	66.3	69.3
75°	44.1	48.1	52.8	57.5	62.1	66.6	72.0	83.4	94.3	104.7	114.6
72.5°	52.7	58.5	64.2	69.7	83.4	97.7	111.5	124.8	150.7	184.6	216.8
70°	62.3	69.0	84.4	101.8	118.6	143.5	187.4	229.6	270.2	317.2	378.4
67.5°	74.6	95.0	115.0	142.1	194.8	245.9	295.3	373.6	449.4	522.0	595.8
65°	100.3	123.0	171.7	231.8	290.3	380.5	471.7	559.6	661.6	762.1	857.9
62.5°	125.7	186.6	254.2	335.9	442.5	546.2	664.6	785.0	900.8	1026.8	1148.9
60°	186.6	261.7	360.8	480.0	602.2	742.6	878.8	1025.2	1171.3	1312.1	1465.8
57.5°	254.2	360.8	492.6	633.5	789.8	946.2	1116.5	1281.4	1459.7	1634.8	1805.4
55°	335.9	480.0	633.5	805.6	982.9	1171.8	1362.4	1566.5	1763.8	1967.3	2162.1
52.5°	442.5	602.2	789.8	982.9	1190.3	1405.2	1631.1	1857.0	2084.5	2310.0	2543.2
50°	546.2	742.6	946.2	1171.8	1405.2	1652.8	1903.9	2155.5	2415.9	2676.7	2939.2
47.5°	664.6	878.8	1116.5	1362.4	1631.1	1903.9	2179.3	2469.3	2757.6	3057.4	3348.1
45°	785.0	1025.2	1281.4	1566.5	1857.0	2155.5	2469.3	2784.7	3117.0	3429.3	3698.0
42.5°	900.8	1171.3	1459.7	1763.8	2084.5	2415.9	2757.6	3117.0	3455.6	3751.3	3970.6
40°	1026.8	1312.1	1634.8	1967.3	2310.0	2676.7	3057.4	3429.3	3751.3	3986.6	4164.9
37.5°	1148.9	1465.8	1805.4	2162.1	2543.2	2939.2	3348.1	3698.0	3970.6	4164.9	4498.3
35°	1264.9	1611.9	1976.5	2359.0	2765.7	3198.9	3592.1	3922.7	4132.3	4468.1	5343.0
32.5°	1384.1	1750.0	2138.5	2554.3	2993.2	3435.5	3821.8	4067.5	4378.1	5004.2	7079.4
30°	1502.0	1888.5	2295.7	2738.2	3209.3	3637.6	3971.9	4230.0	4643.5	6561.2	8500.2
27.5°	1611.9	2018.4	2453.5	2920.7	3405.9	3827.1	4092.2	4463.5	5709.6	7953.3	9721.6
25°	1713.3	2138.5	2599.6	3093.5	3568.6	3950.7	4228.7	4681.3	6996.6	9025.6	10320.8
22.5°	1809.4	2248.7	2733.4	3252.1	3718.1	4046.2	4415.2	5647.6	8073.1	9992.1	10734.4
20°	1899.4	2359.0	2860.5	3392.2	3853.8	4133.0	4585.0	6656.4	8918.9	10345.0	11092.8
17.5°	1979.6	2457.3	2977.7	3503.4	3934.1	4240.4	4848.4	7562.5	9680.1	10663.3	11407.0
15°	2049.5	2543.2	3080.3	3600.7	3996.7	4363.5	5583.8	8207.0	10120.2	10937.9	11685.0
12.5°	2109.1	2616.4	3167.7	3683.9	4050.2	4468.8	6213.9	8738.8	10343.6	11159.5	11910.1
10°	2158.2	2676.7	3239.8	3752.4	4094.4	4555.8	6734.9	9179.1	10528.9	11343.6	12097.5
7.5°	2196.5	2723.8	3296.1	3806.0	4128.9	4624.0	7143.6	9524.9	10674.7	11488.6	12245.4
5°	2224.0	2757.6	3336.6	3844.5	4153.8	4673.0	7437.5	9773.8	10779.7	11593.2	12352.3
2.5°	2240.5	2777.9	3360.9	3867.7	4168.7	4702.5	7614.6	9923.8	10843.0	11656.4	12416.9
0°	2246.0	2784.7	3369.0	3875.4	4173.7	4712.4	7673.8	9974.0	10864.2	11677.5	12438.5
-2.5°	2240.5	2777.9	3360.9	3867.7	4168.7	4702.5	7614.6	9923.8	10843.0	11656.4	12416.9
-5°	2224.0	2757.6	3336.6	3844.5	4153.8	4673.0	7437.5	9773.8	10779.7	11593.2	12352.3
-7.5°	2196.5	2723.8	3296.1	3806.0	4128.9	4624.0	7143.6	9524.9	10674.7	11488.6	12245.4
-10°	2158.2	2676.7	3239.8	3752.4	4094.4	4555.8	6734.9	9179.1	10528.9	11343.6	12097.5
-12.5°	2109.1	2616.4	3167.7	3683.9	4050.2	4468.8	6213.9	8738.8	10343.6	11159.5	11910.1
-15°	2049.5	2543.2	3080.3	3600.7	3996.7	4363.5	5583.8	8207.0	10120.2	10937.9	11685.0
-17.5°	1979.6	2457.3	2977.7	3503.4	3934.1	4240.4	4848.4	7562.5	9680.1	10663.3	11407.0
-20°	1899.4	2359.0	2860.5	3392.2	3853.8	4133.0	4585.0	6656.4	8918.9	10345.0	11092.8



REPORT NUMBER: P699950 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-2S-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1809.4	2248.7	2733.4	3252.1	3718.1	4046.2	4415.2	5647.6	8073.1	9992.1	10734.4
-25°	1713.3	2138.5	2599.6	3093.5	3568.6	3950.7	4228.7	4681.3	6996.6	9025.6	10320.8
-27.5°	1611.9	2018.4	2453.5	2920.7	3405.9	3827.1	4092.2	4463.5	5709.6	7953.3	9721.6
-30°	1502.0	1888.5	2295.7	2738.2	3209.3	3637.6	3971.9	4230.0	4643.5	6561.2	8500.2
-32.5°	1384.1	1750.0	2138.5	2554.3	2993.2	3435.5	3821.8	4067.5	4378.1	5004.2	7079.4
-35°	1264.9	1611.9	1976.5	2359.0	2765.7	3198.9	3592.1	3922.7	4132.3	4468.1	5343.0
-37.5°	1148.9	1465.8	1805.4	2162.1	2543.2	2939.2	3348.1	3698.0	3970.6	4164.9	4498.3
-40°	1026.8	1312.1	1634.8	1967.3	2310.0	2676.7	3057.4	3429.3	3751.3	3986.6	4164.9
-42.5°	900.8	1171.3	1459.7	1763.8	2084.5	2415.9	2757.6	3117.0	3455.6	3751.3	3970.6
-45°	785.0	1025.2	1281.4	1566.5	1857.0	2155.5	2469.3	2784.7	3117.0	3429.3	3698.0
-47.5°	664.6	878.8	1116.5	1362.4	1631.1	1903.9	2179.3	2469.3	2757.6	3057.4	3348.1
-50°	546.2	742.6	946.2	1171.8	1405.2	1652.8	1903.9	2155.5	2415.9	2676.7	2939.2
-52.5°	442.5	602.2	789.8	982.9	1190.3	1405.2	1631.1	1857.0	2084.5	2310.0	2543.2
-55°	335.9	480.0	633.5	805.6	982.9	1171.8	1362.4	1566.5	1763.8	1967.3	2162.1
-57.5°	254.2	360.8	492.6	633.5	789.8	946.2	1116.5	1281.4	1459.7	1634.8	1805.4
-60°	186.6	261.7	360.8	480.0	602.2	742.6	878.8	1025.2	1171.3	1312.1	1465.8
-62.5°	125.7	186.6	254.2	335.9	442.5	546.2	664.6	785.0	900.8	1026.8	1148.9
-65°	100.3	123.0	171.7	231.8	290.3	380.5	471.7	559.6	661.6	762.1	857.9
-67.5°	74.6	95.0	115.0	142.1	194.8	245.9	295.3	373.6	449.4	522.0	595.8
-70°	62.3	69.0	84.4	101.8	118.6	143.5	187.4	229.6	270.2	317.2	378.4
-72.5°	52.7	58.5	64.2	69.7	83.4	97.7	111.5	124.8	150.7	184.6	216.8
-75°	44.1	48.1	52.8	57.5	62.1	66.6	72.0	83.4	94.3	104.7	114.6
-77.5°	36.4	39.7	42.9	46.0	49.1	52.8	56.4	59.9	63.2	66.3	69.3
-80°	29.3	31.3	33.8	36.3	38.7	41.0	43.3	45.4	47.5	49.8	52.1
-82.5°	23.2	24.7	26.2	27.6	29.0	30.4	31.8	33.4	35.0	36.5	37.9
-85°	16.7	18.1	19.1	20.0	21.0	21.9	22.8	23.6	24.4	25.2	25.9
-87.5°	8.4	9.0	9.7	10.4	11.0	11.6	12.2	12.8	13.3	13.9	14.4
-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: P699950 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-2S-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°	14.8	15.3	15.7	16.1	16.4	16.7	17.0	17.3	17.5	17.7	17.8
85°	26.6	27.2	27.8	28.4	28.9	29.4	29.8	30.2	30.5	30.8	31.0
82.5°	39.2	40.4	41.6	42.7	43.7	44.6	45.4	46.1	46.7	47.3	47.7
80°	54.4	56.5	58.5	60.4	62.1	63.6	65.0	66.2	67.3	68.2	69.0
77.5°	75.4	82.7	89.6	95.9	101.7	107.1	111.9	116.1	119.8	123.0	125.6
75°	124.0	137.4	160.3	181.5	201.1	218.9	235.0	249.2	261.7	272.2	280.9
72.5°	247.2	275.9	306.9	348.2	386.2	421.0	452.2	480.0	504.3	524.8	541.8
70°	436.4	491.0	542.2	594.0	648.3	697.9	742.6	782.4	817.0	846.5	870.7
67.5°	677.2	753.9	825.7	892.5	960.3	1025.2	1083.7	1135.7	1181.1	1219.8	1251.5
65°	954.1	1053.0	1145.7	1232.0	1312.1	1395.6	1470.9	1537.9	1596.4	1646.2	1687.2
62.5°	1264.9	1384.1	1502.0	1611.9	1713.3	1809.4	1899.4	1979.6	2049.5	2109.1	2158.2
60°	1611.9	1750.0	1888.5	2018.4	2138.5	2248.7	2359.0	2457.3	2543.2	2616.4	2676.7
57.5°	1976.5	2138.5	2295.7	2453.5	2599.6	2733.4	2860.5	2977.7	3080.3	3167.7	3239.8
55°	2359.0	2554.3	2738.2	2920.7	3093.5	3252.1	3392.2	3503.4	3600.7	3683.9	3752.4
52.5°	2765.7	2993.2	3209.3	3405.9	3568.6	3718.1	3853.8	3934.1	3996.7	4050.2	4094.4
50°	3198.9	3435.5	3637.6	3827.1	3950.7	4046.2	4133.0	4240.4	4363.5	4468.8	4555.8
47.5°	3592.1	3821.8	3971.9	4092.2	4228.7	4415.2	4585.0	4848.4	5583.8	6213.9	6734.9
45°	3922.7	4067.5	4230.0	4463.5	4681.3	5647.6	6656.4	7562.5	8207.0	8738.8	9179.1
42.5°	4132.3	4378.1	4643.5	5709.6	6996.6	8073.1	8918.9	9680.1	10120.2	10343.6	10528.9
40°	4468.1	5004.2	6561.2	7953.3	9025.6	9992.1	10345.0	10663.3	10937.9	11159.5	11343.6
37.5°	5343.0	7079.4	8500.2	9721.6	10320.8	10734.4	11092.8	11407.0	11685.0	11910.1	12097.5
35°	7253.4	8776.7	10040.5	10544.4	11006.2	11411.6	11778.4	12095.8	12378.1	12621.9	12825.3
32.5°	8776.7	10095.6	10657.6	11165.4	11629.1	12038.7	12414.9	12756.4	13061.2	13348.1	13607.8
30°	10040.5	10657.6	11218.9	11735.4	12198.1	12632.6	13035.6	13439.6	13826.4	14185.3	14544.6
27.5°	10544.4	11165.4	11735.4	12251.7	12743.2	13208.7	13715.6	14207.5	14738.9	15205.0	16259.7
25°	11006.2	11629.1	12198.1	12743.2	13276.4	13856.3	14484.6	15121.7	16529.3	17898.6	21292.0
22.5°	11411.6	12038.7	12632.6	13208.7	13856.3	14578.3	15503.8	17352.7	21213.5	26708.5	34560.3
20°	11778.4	12414.9	13035.6	13715.6	14484.6	15503.8	17632.0	23365.1	31304.1	46228.0	60728.7
17.5°	12095.8	12756.4	13439.6	14207.5	15121.7	17352.7	23365.1	34156.7	52277.1	76418.7	99915.7
15°	12378.1	13061.2	13826.4	14738.9	16529.3	21213.5	31304.1	52277.1	81800.4	116726.1	156709.9
12.5°	12621.9	13348.1	14185.3	15205.0	17898.6	26708.5	46228.0	76418.7	116726.1	166421.1	232556.3
10°	12825.3	13607.8	14544.6	16259.7	21292.0	34560.3	60728.7	99915.7	156709.9	232556.3	312081.4
7.5°	12986.2	13813.8	14830.5	17105.4	24715.7	43967.7	77948.3	128703.8	200822.2	292244.9	394186.3
5°	13102.6	13963.2	15038.4	17722.5	27225.2	50903.2	90741.3	150862.3	239308.8	344490.6	462368.2
2.5°	13173.1	14053.8	15164.7	18098.3	28758.2	55158.0	98635.5	164647.8	263541.0	380291.1	506711.6
0°	13196.7	14084.1	15207.1	18224.5	29274.0	56592.7	101305.6	169331.7	271830.6	392990.6	522283.4
-2.5°	13173.1	14053.8	15164.7	18098.3	28758.2	55158.0	98635.5	164647.8	263541.0	380291.1	506711.6
-5°	13102.6	13963.2	15038.4	17722.5	27225.2	50903.2	90741.3	150862.3	239308.8	344490.6	462368.2
-7.5°	12986.2	13813.8	14830.5	17105.4	24715.7	43967.7	77948.3	128703.8	200822.2	292244.9	394186.3
-10°	12825.3	13607.8	14544.6	16259.7	21292.0	34560.3	60728.7	99915.7	156709.9	232556.3	312081.4
-12.5°	12621.9	13348.1	14185.3	15205.0	17898.6	26708.5	46228.0	76418.7	116726.1	166421.1	232556.3
-15°	12378.1	13061.2	13826.4	14738.9	16529.3	21213.5	31304.1	52277.1	81800.4	116726.1	156709.9
-17.5°	12095.8	12756.4	13439.6	14207.5	15121.7	17352.7	23365.1	34156.7	52277.1	76418.7	99915.7
-20°	11778.4	12414.9	13035.6	13715.6	14484.6	15503.8	17632.0	23365.1	31304.1	46228.0	60728.7



REPORT NUMBER: P699950 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-2S-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	11411.6	12038.7	12632.6	13208.7	13856.3	14578.3	15503.8	17352.7	21213.5	26708.5	34560.3
-25°	11006.2	11629.1	12198.1	12743.2	13276.4	13856.3	14484.6	15121.7	16529.3	17898.6	21292.0
-27.5°	10544.4	11165.4	11735.4	12251.7	12743.2	13208.7	13715.6	14207.5	14738.9	15205.0	16259.7
-30°	10040.5	10657.6	11218.9	11735.4	12198.1	12632.6	13035.6	13439.6	13826.4	14185.3	14544.6
-32.5°	8776.7	10095.6	10657.6	11165.4	11629.1	12038.7	12414.9	12756.4	13061.2	13348.1	13607.8
-35°	7253.4	8776.7	10040.5	10544.4	11006.2	11411.6	11778.4	12095.8	12378.1	12621.9	12825.3
-37.5°	5343.0	7079.4	8500.2	9721.6	10320.8	10734.4	11092.8	11407.0	11685.0	11910.1	12097.5
-40°	4468.1	5004.2	6561.2	7953.3	9025.6	9992.1	10345.0	10663.3	10937.9	11159.5	11343.6
-42.5°	4132.3	4378.1	4643.5	5709.6	6996.6	8073.1	8918.9	9680.1	10120.2	10343.6	10528.9
-45°	3922.7	4067.5	4230.0	4463.5	4681.3	5647.6	6656.4	7562.5	8207.0	8738.8	9179.1
-47.5°	3592.1	3821.8	3971.9	4092.2	4228.7	4415.2	4585.0	4848.4	5583.8	6213.9	6734.9
-50°	3198.9	3435.5	3637.6	3827.1	3950.7	4046.2	4133.0	4240.4	4363.5	4468.8	4555.8
-52.5°	2765.7	2993.2	3209.3	3405.9	3568.6	3718.1	3853.8	3934.1	3996.7	4050.2	4094.4
-55°	2359.0	2554.3	2738.2	2920.7	3093.5	3252.1	3392.2	3503.4	3600.7	3683.9	3752.4
-57.5°	1976.5	2138.5	2295.7	2453.5	2599.6	2733.4	2860.5	2977.7	3080.3	3167.7	3239.8
-60°	1611.9	1750.0	1888.5	2018.4	2138.5	2248.7	2359.0	2457.3	2543.2	2616.4	2676.7
-62.5°	1264.9	1384.1	1502.0	1611.9	1713.3	1809.4	1899.4	1979.6	2049.5	2109.1	2158.2
-65°	954.1	1053.0	1145.7	1232.0	1312.1	1395.6	1470.9	1537.9	1596.4	1646.2	1687.2
-67.5°	677.2	753.9	825.7	892.5	960.3	1025.2	1083.7	1135.7	1181.1	1219.8	1251.5
-70°	436.4	491.0	542.2	594.0	648.3	697.9	742.6	782.4	817.0	846.5	870.7
-72.5°	247.2	275.9	306.9	348.2	386.2	421.0	452.2	480.0	504.3	524.8	541.8
-75°	124.0	137.4	160.3	181.5	201.1	218.9	235.0	249.2	261.7	272.2	280.9
-77.5°	75.4	82.7	89.6	95.9	101.7	107.1	111.9	116.1	119.8	123.0	125.6
-80°	54.4	56.5	58.5	60.4	62.1	63.6	65.0	66.2	67.3	68.2	69.0
-82.5°	39.2	40.4	41.6	42.7	43.7	44.6	45.4	46.1	46.7	47.3	47.7
-85°	26.6	27.2	27.8	28.4	28.9	29.4	29.8	30.2	30.5	30.8	31.0
-87.5°	14.8	15.3	15.7	16.1	16.4	16.7	17.0	17.3	17.5	17.7	17.8
-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: P699950 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-2S-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°	17.9	18.0	18.1	18.1	18.1	18.0	17.9	17.8	17.7	17.5	17.3
85°	31.2	31.3	31.4	31.4	31.4	31.3	31.2	31.0	30.8	30.5	30.2
82.5°	48.1	48.3	48.5	48.5	48.5	48.3	48.1	47.7	47.3	46.7	46.1
80°	69.5	70.0	70.2	70.3	70.2	70.0	69.5	69.0	68.2	67.3	66.2
77.5°	127.6	129.0	129.9	130.2	129.9	129.0	127.6	125.6	123.0	119.8	116.1
75°	287.7	292.5	295.4	296.4	295.4	292.5	287.7	280.9	272.2	261.7	249.2
72.5°	555.0	564.4	570.1	572.0	570.1	564.4	555.0	541.8	524.8	504.3	480.0
70°	889.6	903.1	911.3	914.0	911.3	903.1	889.6	870.7	846.5	817.0	782.4
67.5°	1276.3	1294.1	1304.7	1308.3	1304.7	1294.1	1276.3	1251.5	1219.8	1181.1	1135.7
65°	1719.2	1742.1	1755.9	1760.5	1755.9	1742.1	1719.2	1687.2	1646.2	1596.4	1537.9
62.5°	2196.5	2224.0	2240.5	2246.0	2240.5	2224.0	2196.5	2158.2	2109.1	2049.5	1979.6
60°	2723.8	2757.6	2777.9	2784.7	2777.9	2757.6	2723.8	2676.7	2616.4	2543.2	2457.3
57.5°	3296.1	3336.6	3360.9	3369.0	3360.9	3336.6	3296.1	3239.8	3167.7	3080.3	2977.7
55°	3806.0	3844.5	3867.7	3875.4	3867.7	3844.5	3806.0	3752.4	3683.9	3600.7	3503.4
52.5°	4128.9	4153.8	4168.7	4173.7	4168.7	4153.8	4128.9	4094.4	4050.2	3996.7	3934.1
50°	4624.0	4673.0	4702.5	4712.4	4702.5	4673.0	4624.0	4555.8	4468.8	4363.5	4240.4
47.5°	7143.6	7437.5	7614.6	7673.8	7614.6	7437.5	7143.6	6734.9	6213.9	5583.8	4848.4
45°	9524.9	9773.8	9923.8	9974.0	9923.8	9773.8	9524.9	9179.1	8738.8	8207.0	7562.5
42.5°	10674.7	10779.7	10843.0	10864.2	10843.0	10779.7	10674.7	10528.9	10343.6	10120.2	9680.1
40°	11488.6	11593.2	11656.4	11677.5	11656.4	11593.2	11488.6	11343.6	11159.5	10937.9	10663.3
37.5°	12245.4	12352.3	12416.9	12438.5	12416.9	12352.3	12245.4	12097.5	11910.1	11685.0	11407.0
35°	12986.2	13102.6	13173.1	13196.7	13173.1	13102.6	12986.2	12825.3	12621.9	12378.1	12095.8
32.5°	13813.8	13963.2	14053.8	14084.1	14053.8	13963.2	13813.8	13607.8	13348.1	13061.2	12756.4
30°	14830.5	15038.4	15164.7	15207.1	15164.7	15038.4	14830.5	14544.6	14185.3	13826.4	13439.6
27.5°	17105.4	17722.5	18098.3	18224.5	18098.3	17722.5	17105.4	16259.7	15205.0	14738.9	14207.5
25°	24715.7	27225.2	28758.2	29274.0	28758.2	27225.2	24715.7	21292.0	17898.6	16529.3	15121.7
22.5°	43967.7	50903.2	55158.0	56592.7	55158.0	50903.2	43967.7	34560.3	26708.5	21213.5	17352.7
20°	77948.3	90741.3	98635.5	101305.6	98635.5	90741.3	77948.3	60728.7	46228.0	31304.1	23365.1
17.5°	128703.8	150862.3	164647.8	169331.7	164647.8	150862.3	128703.8	99915.7	76418.7	52277.1	34156.7
15°	200822.2	239308.8	263541.0	271830.6	263541.0	239308.8	200822.2	156709.9	116726.1	81800.4	52277.1
12.5°	292244.9	344490.6	380291.1	392990.6	380291.1	344490.6	292244.9	232556.3	166421.1	116726.1	76418.7
10°	394186.3	462368.2	506711.6	522283.4	506711.6	462368.2	394186.3	312081.4	232556.3	156709.9	99915.7
7.5°	492057.0	576133.5	636328.3	656832.0	636328.3	576133.5	492057.0	394186.3	292244.9	200822.2	128703.8
5°	576133.5	678859.9	740455.4	762046.7	740455.4	678859.9	576133.5	462368.2	344490.6	239308.8	150862.3
2.5°	636328.3	740455.4	810185.7	841982.6	810185.7	740455.4	636328.3	506711.6	380291.1	263541.0	164647.8
0°	656832.0	762046.7	841982.6	886105.0	841982.6	762046.7	656832.0	522283.4	392990.6	271830.6	169331.7
-2.5°	636328.3	740455.4	810185.7	841982.6	810185.7	740455.4	636328.3	506711.6	380291.1	263541.0	164647.8
-5°	576133.5	678859.9	740455.4	762046.7	740455.4	678859.9	576133.5	462368.2	344490.6	239308.8	150862.3
-7.5°	492057.0	576133.5	636328.3	656832.0	636328.3	576133.5	492057.0	394186.3	292244.9	200822.2	128703.8
-10°	394186.3	462368.2	506711.6	522283.4	506711.6	462368.2	394186.3	312081.4	232556.3	156709.9	99915.7
-12.5°	292244.9	344490.6	380291.1	392990.6	380291.1	344490.6	292244.9	232556.3	166421.1	116726.1	76418.7
-15°	200822.2	239308.8	263541.0	271830.6	263541.0	239308.8	200822.2	156709.9	116726.1	81800.4	52277.1
-17.5°	128703.8	150862.3	164647.8	169331.7	164647.8	150862.3	128703.8	99915.7	76418.7	52277.1	34156.7
-20°	77948.3	90741.3	98635.5	101305.6	98635.5	90741.3	77948.3	60728.7	46228.0	31304.1	23365.1



REPORT NUMBER: P699950 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-2S-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	43967.7	50903.2	55158.0	56592.7	55158.0	50903.2	43967.7	34560.3	26708.5	21213.5	17352.7
-25°	24715.7	27225.2	28758.2	29274.0	28758.2	27225.2	24715.7	21292.0	17898.6	16529.3	15121.7
-27.5°	17105.4	17722.5	18098.3	18224.5	18098.3	17722.5	17105.4	16259.7	15205.0	14738.9	14207.5
-30°	14830.5	15038.4	15164.7	15207.1	15164.7	15038.4	14830.5	14544.6	14185.3	13826.4	13439.6
-32.5°	13813.8	13963.2	14053.8	14084.1	14053.8	13963.2	13813.8	13607.8	13348.1	13061.2	12756.4
-35°	12986.2	13102.6	13173.1	13196.7	13173.1	13102.6	12986.2	12825.3	12621.9	12378.1	12095.8
-37.5°	12245.4	12352.3	12416.9	12438.5	12416.9	12352.3	12245.4	12097.5	11910.1	11685.0	11407.0
-40°	11488.6	11593.2	11656.4	11677.5	11656.4	11593.2	11488.6	11343.6	11159.5	10937.9	10663.3
-42.5°	10674.7	10779.7	10843.0	10864.2	10843.0	10779.7	10674.7	10528.9	10343.6	10120.2	9680.1
-45°	9524.9	9773.8	9923.8	9974.0	9923.8	9773.8	9524.9	9179.1	8738.8	8207.0	7562.5
-47.5°	7143.6	7437.5	7614.6	7673.8	7614.6	7437.5	7143.6	6734.9	6213.9	5583.8	4848.4
-50°	4624.0	4673.0	4702.5	4712.4	4702.5	4673.0	4624.0	4555.8	4468.8	4363.5	4240.4
-52.5°	4128.9	4153.8	4168.7	4173.7	4168.7	4153.8	4128.9	4094.4	4050.2	3996.7	3934.1
-55°	3806.0	3844.5	3867.7	3875.4	3867.7	3844.5	3806.0	3752.4	3683.9	3600.7	3503.4
-57.5°	3296.1	3336.6	3360.9	3369.0	3360.9	3336.6	3296.1	3239.8	3167.7	3080.3	2977.7
-60°	2723.8	2757.6	2777.9	2784.7	2777.9	2757.6	2723.8	2676.7	2616.4	2543.2	2457.3
-62.5°	2196.5	2224.0	2240.5	2246.0	2240.5	2224.0	2196.5	2158.2	2109.1	2049.5	1979.6
-65°	1719.2	1742.1	1755.9	1760.5	1755.9	1742.1	1719.2	1687.2	1646.2	1596.4	1537.9
-67.5°	1276.3	1294.1	1304.7	1308.3	1304.7	1294.1	1276.3	1251.5	1219.8	1181.1	1135.7
-70°	889.6	903.1	911.3	914.0	911.3	903.1	889.6	870.7	846.5	817.0	782.4
-72.5°	555.0	564.4	570.1	572.0	570.1	564.4	555.0	541.8	524.8	504.3	480.0
-75°	287.7	292.5	295.4	296.4	295.4	292.5	287.7	280.9	272.2	261.7	249.2
-77.5°	127.6	129.0	129.9	130.2	129.9	129.0	127.6	125.6	123.0	119.8	116.1
-80°	69.5	70.0	70.2	70.3	70.2	70.0	69.5	69.0	68.2	67.3	66.2
-82.5°	48.1	48.3	48.5	48.5	48.5	48.3	48.1	47.7	47.3	46.7	46.1
-85°	31.2	31.3	31.4	31.4	31.4	31.3	31.2	31.0	30.8	30.5	30.2
-87.5°	17.9	18.0	18.1	18.1	18.1	18.0	17.9	17.8	17.7	17.5	17.3
-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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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°	17.0	16.7	16.4	16.1	15.7	15.3	14.8	14.4	13.9	13.3	12.8
85°	29.8	29.4	28.9	28.4	27.8	27.2	26.6	25.9	25.2	24.4	23.6
82.5°	45.4	44.6	43.7	42.7	41.6	40.4	39.2	37.9	36.5	35.0	33.4
80°	65.0	63.6	62.1	60.4	58.5	56.5	54.4	52.1	49.8	47.5	45.4
77.5°	111.9	107.1	101.7	95.9	89.6	82.7	75.4	69.3	66.3	63.2	59.9
75°	235.0	218.9	201.1	181.5	160.3	137.4	124.0	114.6	104.7	94.3	83.4
72.5°	452.2	421.0	386.2	348.2	306.9	275.9	247.2	216.8	184.6	150.7	124.8
70°	742.6	697.9	648.3	594.0	542.2	491.0	436.4	378.4	317.2	270.2	229.6
67.5°	1083.7	1025.2	960.3	892.5	825.7	753.9	677.2	595.8	522.0	449.4	373.6
65°	1470.9	1395.6	1312.1	1232.0	1145.7	1053.0	954.1	857.9	762.1	661.6	559.6
62.5°	1899.4	1809.4	1713.3	1611.9	1502.0	1384.1	1264.9	1148.9	1026.8	900.8	785.0
60°	2359.0	2248.7	2138.5	2018.4	1888.5	1750.0	1611.9	1465.8	1312.1	1171.3	1025.2
57.5°	2860.5	2733.4	2599.6	2453.5	2295.7	2138.5	1976.5	1805.4	1634.8	1459.7	1281.4
55°	3392.2	3252.1	3093.5	2920.7	2738.2	2554.3	2359.0	2162.1	1967.3	1763.8	1566.5
52.5°	3853.8	3718.1	3568.6	3405.9	3209.3	2993.2	2765.7	2543.2	2310.0	2084.5	1857.0
50°	4133.0	4046.2	3950.7	3827.1	3637.6	3435.5	3198.9	2939.2	2676.7	2415.9	2155.5
47.5°	4585.0	4415.2	4228.7	4092.2	3971.9	3821.8	3592.1	3348.1	3057.4	2757.6	2469.3
45°	6656.4	5647.6	4681.3	4463.5	4230.0	4067.5	3922.7	3698.0	3429.3	3117.0	2784.7
42.5°	8918.9	8073.1	6996.6	5709.6	4643.5	4378.1	4132.3	3970.6	3751.3	3455.6	3117.0
40°	10345.0	9992.1	9025.6	7953.3	6561.2	5004.2	4468.1	4164.9	3986.6	3751.3	3429.3
37.5°	11092.8	10734.4	10320.8	9721.6	8500.2	7079.4	5343.0	4498.3	4164.9	3970.6	3698.0
35°	11778.4	11411.6	11006.2	10544.4	10040.5	8776.7	7253.4	5343.0	4468.1	4132.3	3922.7
32.5°	12414.9	12038.7	11629.1	11165.4	10657.6	10095.6	8776.7	7079.4	5004.2	4378.1	4067.5
30°	13035.6	12632.6	12198.1	11735.4	11218.9	10657.6	10040.5	8500.2	6561.2	4643.5	4230.0
27.5°	13715.6	13208.7	12743.2	12251.7	11735.4	11165.4	10544.4	9721.6	7953.3	5709.6	4463.5
25°	14484.6	13856.3	13276.4	12743.2	12198.1	11629.1	11006.2	10320.8	9025.6	6996.6	4681.3
22.5°	15503.8	14578.3	13856.3	13208.7	12632.6	12038.7	11411.6	10734.4	9992.1	8073.1	5647.6
20°	17632.0	15503.8	14484.6	13715.6	13035.6	12414.9	11778.4	11092.8	10345.0	8918.9	6656.4
17.5°	23365.1	17352.7	15121.7	14207.5	13439.6	12756.4	12095.8	11407.0	10663.3	9680.1	7562.5
15°	31304.1	21213.5	16529.3	14738.9	13826.4	13061.2	12378.1	11685.0	10937.9	10120.2	8207.0
12.5°	46228.0	26708.5	17898.6	15205.0	14185.3	13348.1	12621.9	11910.1	11159.5	10343.6	8738.8
10°	60728.7	34560.3	21292.0	16259.7	14544.6	13607.8	12825.3	12097.5	11343.6	10528.9	9179.1
7.5°	77948.3	43967.7	24715.7	17105.4	14830.5	13813.8	12986.2	12245.4	11488.6	10674.7	9524.9
5°	90741.3	50903.2	27225.2	17722.5	15038.4	13963.2	13102.6	12352.3	11593.2	10779.7	9773.8
2.5°	98635.5	55158.0	28758.2	18098.3	15164.7	14053.8	13173.1	12416.9	11656.4	10843.0	9923.8
0°	101305.6	56592.7	29274.0	18224.5	15207.1	14084.1	13196.7	12438.5	11677.5	10864.2	9974.0
-2.5°	98635.5	55158.0	28758.2	18098.3	15164.7	14053.8	13173.1	12416.9	11656.4	10843.0	9923.8
-5°	90741.3	50903.2	27225.2	17722.5	15038.4	13963.2	13102.6	12352.3	11593.2	10779.7	9773.8
-7.5°	77948.3	43967.7	24715.7	17105.4	14830.5	13813.8	12986.2	12245.4	11488.6	10674.7	9524.9
-10°	60728.7	34560.3	21292.0	16259.7	14544.6	13607.8	12825.3	12097.5	11343.6	10528.9	9179.1
-12.5°	46228.0	26708.5	17898.6	15205.0	14185.3	13348.1	12621.9	11910.1	11159.5	10343.6	8738.8
-15°	31304.1	21213.5	16529.3	14738.9	13826.4	13061.2	12378.1	11685.0	10937.9	10120.2	8207.0
-17.5°	23365.1	17352.7	15121.7	14207.5	13439.6	12756.4	12095.8	11407.0	10663.3	9680.1	7562.5
-20°	17632.0	15503.8	14484.6	13715.6	13035.6	12414.9	11778.4	11092.8	10345.0	8918.9	6656.4



REPORT NUMBER: P699950 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-2S-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	15503.8	14578.3	13856.3	13208.7	12632.6	12038.7	11411.6	10734.4	9992.1	8073.1	5647.6
-25°	14484.6	13856.3	13276.4	12743.2	12198.1	11629.1	11006.2	10320.8	9025.6	6996.6	4681.3
-27.5°	13715.6	13208.7	12743.2	12251.7	11735.4	11165.4	10544.4	9721.6	7953.3	5709.6	4463.5
-30°	13035.6	12632.6	12198.1	11735.4	11218.9	10657.6	10040.5	8500.2	6561.2	4643.5	4230.0
-32.5°	12414.9	12038.7	11629.1	11165.4	10657.6	10095.6	8776.7	7079.4	5004.2	4378.1	4067.5
-35°	11778.4	11411.6	11006.2	10544.4	10040.5	8776.7	7253.4	5343.0	4468.1	4132.3	3922.7
-37.5°	11092.8	10734.4	10320.8	9721.6	8500.2	7079.4	5343.0	4498.3	4164.9	3970.6	3698.0
-40°	10345.0	9992.1	9025.6	7953.3	6561.2	5004.2	4468.1	4164.9	3986.6	3751.3	3429.3
-42.5°	8918.9	8073.1	6996.6	5709.6	4643.5	4378.1	4132.3	3970.6	3751.3	3455.6	3117.0
-45°	6656.4	5647.6	4681.3	4463.5	4230.0	4067.5	3922.7	3698.0	3429.3	3117.0	2784.7
-47.5°	4585.0	4415.2	4228.7	4092.2	3971.9	3821.8	3592.1	3348.1	3057.4	2757.6	2469.3
-50°	4133.0	4046.2	3950.7	3827.1	3637.6	3435.5	3198.9	2939.2	2676.7	2415.9	2155.5
-52.5°	3853.8	3718.1	3568.6	3405.9	3209.3	2993.2	2765.7	2543.2	2310.0	2084.5	1857.0
-55°	3392.2	3252.1	3093.5	2920.7	2738.2	2554.3	2359.0	2162.1	1967.3	1763.8	1566.5
-57.5°	2860.5	2733.4	2599.6	2453.5	2295.7	2138.5	1976.5	1805.4	1634.8	1459.7	1281.4
-60°	2359.0	2248.7	2138.5	2018.4	1888.5	1750.0	1611.9	1465.8	1312.1	1171.3	1025.2
-62.5°	1899.4	1809.4	1713.3	1611.9	1502.0	1384.1	1264.9	1148.9	1026.8	900.8	785.0
-65°	1470.9	1395.6	1312.1	1232.0	1145.7	1053.0	954.1	857.9	762.1	661.6	559.6
-67.5°	1083.7	1025.2	960.3	892.5	825.7	753.9	677.2	595.8	522.0	449.4	373.6
-70°	742.6	697.9	648.3	594.0	542.2	491.0	436.4	378.4	317.2	270.2	229.6
-72.5°	452.2	421.0	386.2	348.2	306.9	275.9	247.2	216.8	184.6	150.7	124.8
-75°	235.0	218.9	201.1	181.5	160.3	137.4	124.0	114.6	104.7	94.3	83.4
-77.5°	111.9	107.1	101.7	95.9	89.6	82.7	75.4	69.3	66.3	63.2	59.9
-80°	65.0	63.6	62.1	60.4	58.5	56.5	54.4	52.1	49.8	47.5	45.4
-82.5°	45.4	44.6	43.7	42.7	41.6	40.4	39.2	37.9	36.5	35.0	33.4
-85°	29.8	29.4	28.9	28.4	27.8	27.2	26.6	25.9	25.2	24.4	23.6
-87.5°	17.0	16.7	16.4	16.1	15.7	15.3	14.8	14.4	13.9	13.3	12.8
-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: P699950 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-2S-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°	12.2	11.6	11.0	10.4	9.7	9.0	8.4	7.6	6.9	6.2	5.4
85°	22.8	21.9	21.0	20.0	19.1	18.1	16.7	15.3	13.8	12.4	10.9
82.5°	31.8	30.4	29.0	27.6	26.2	24.7	23.2	21.6	20.0	18.4	16.3
80°	43.3	41.0	38.7	36.3	33.8	31.3	29.3	27.2	25.1	22.9	20.7
77.5°	56.4	52.8	49.1	46.0	42.9	39.7	36.4	33.1	30.1	27.4	24.7
75°	72.0	66.6	62.1	57.5	52.8	48.1	44.1	40.2	36.1	31.9	28.5
72.5°	111.5	97.7	83.4	69.7	64.2	58.5	52.7	47.1	42.4	37.6	32.7
70°	187.4	143.5	118.6	101.8	84.4	69.0	62.3	55.6	48.7	43.1	37.6
67.5°	295.3	245.9	194.8	142.1	115.0	95.0	74.6	64.3	56.5	48.7	42.4
65°	471.7	380.5	290.3	231.8	171.7	123.0	100.3	77.2	64.3	55.6	47.1
62.5°	664.6	546.2	442.5	335.9	254.2	186.6	125.7	100.3	74.6	62.3	52.7
60°	878.8	742.6	602.2	480.0	360.8	261.7	186.6	123.0	95.0	69.0	58.5
57.5°	1116.5	946.2	789.8	633.5	492.6	360.8	254.2	171.7	115.0	84.4	64.2
55°	1362.4	1171.8	982.9	805.6	633.5	480.0	335.9	231.8	142.1	101.8	69.7
52.5°	1631.1	1405.2	1190.3	982.9	789.8	602.2	442.5	290.3	194.8	118.6	83.4
50°	1903.9	1652.8	1405.2	1171.8	946.2	742.6	546.2	380.5	245.9	143.5	97.7
47.5°	2179.3	1903.9	1631.1	1362.4	1116.5	878.8	664.6	471.7	295.3	187.4	111.5
45°	2469.3	2155.5	1857.0	1566.5	1281.4	1025.2	785.0	559.6	373.6	229.6	124.8
42.5°	2757.6	2415.9	2084.5	1763.8	1459.7	1171.3	900.8	661.6	449.4	270.2	150.7
40°	3057.4	2676.7	2310.0	1967.3	1634.8	1312.1	1026.8	762.1	522.0	317.2	184.6
37.5°	3348.1	2939.2	2543.2	2162.1	1805.4	1465.8	1148.9	857.9	595.8	378.4	216.8
35°	3592.1	3198.9	2765.7	2359.0	1976.5	1611.9	1264.9	954.1	677.2	436.4	247.2
32.5°	3821.8	3435.5	2993.2	2554.3	2138.5	1750.0	1384.1	1053.0	753.9	491.0	275.9
30°	3971.9	3637.6	3209.3	2738.2	2295.7	1888.5	1502.0	1145.7	825.7	542.2	306.9
27.5°	4092.2	3827.1	3405.9	2920.7	2453.5	2018.4	1611.9	1232.0	892.5	594.0	348.2
25°	4228.7	3950.7	3568.6	3093.5	2599.6	2138.5	1713.3	1312.1	960.3	648.3	386.2
22.5°	4415.2	4046.2	3718.1	3252.1	2733.4	2248.7	1809.4	1395.6	1025.2	697.9	421.0
20°	4585.0	4133.0	3853.8	3392.2	2860.5	2359.0	1899.4	1470.9	1083.7	742.6	452.2
17.5°	4848.4	4240.4	3934.1	3503.4	2977.7	2457.3	1979.6	1537.9	1135.7	782.4	480.0
15°	5583.8	4363.5	3996.7	3600.7	3080.3	2543.2	2049.5	1596.4	1181.1	817.0	504.3
12.5°	6213.9	4468.8	4050.2	3683.9	3167.7	2616.4	2109.1	1646.2	1219.8	846.5	524.8
10°	6734.9	4555.8	4094.4	3752.4	3239.8	2676.7	2158.2	1687.2	1251.5	870.7	541.8
7.5°	7143.6	4624.0	4128.9	3806.0	3296.1	2723.8	2196.5	1719.2	1276.3	889.6	555.0
5°	7437.5	4673.0	4153.8	3844.5	3336.6	2757.6	2224.0	1742.1	1294.1	903.1	564.4
2.5°	7614.6	4702.5	4168.7	3867.7	3360.9	2777.9	2240.5	1755.9	1304.7	911.3	570.1
0°	7673.8	4712.4	4173.7	3875.4	3369.0	2784.7	2246.0	1760.5	1308.3	914.0	572.0
-2.5°	7614.6	4702.5	4168.7	3867.7	3360.9	2777.9	2240.5	1755.9	1304.7	911.3	570.1
-5°	7437.5	4673.0	4153.8	3844.5	3336.6	2757.6	2224.0	1742.1	1294.1	903.1	564.4
-7.5°	7143.6	4624.0	4128.9	3806.0	3296.1	2723.8	2196.5	1719.2	1276.3	889.6	555.0
-10°	6734.9	4555.8	4094.4	3752.4	3239.8	2676.7	2158.2	1687.2	1251.5	870.7	541.8
-12.5°	6213.9	4468.8	4050.2	3683.9	3167.7	2616.4	2109.1	1646.2	1219.8	846.5	524.8
-15°	5583.8	4363.5	3996.7	3600.7	3080.3	2543.2	2049.5	1596.4	1181.1	817.0	504.3
-17.5°	4848.4	4240.4	3934.1	3503.4	2977.7	2457.3	1979.6	1537.9	1135.7	782.4	480.0
-20°	4585.0	4133.0	3853.8	3392.2	2860.5	2359.0	1899.4	1470.9	1083.7	742.6	452.2



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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°	4415.2	4046.2	3718.1	3252.1	2733.4	2248.7	1809.4	1395.6	1025.2	697.9	421.0
-25°	4228.7	3950.7	3568.6	3093.5	2599.6	2138.5	1713.3	1312.1	960.3	648.3	386.2
-27.5°	4092.2	3827.1	3405.9	2920.7	2453.5	2018.4	1611.9	1232.0	892.5	594.0	348.2
-30°	3971.9	3637.6	3209.3	2738.2	2295.7	1888.5	1502.0	1145.7	825.7	542.2	306.9
-32.5°	3821.8	3435.5	2993.2	2554.3	2138.5	1750.0	1384.1	1053.0	753.9	491.0	275.9
-35°	3592.1	3198.9	2765.7	2359.0	1976.5	1611.9	1264.9	954.1	677.2	436.4	247.2
-37.5°	3348.1	2939.2	2543.2	2162.1	1805.4	1465.8	1148.9	857.9	595.8	378.4	216.8
-40°	3057.4	2676.7	2310.0	1967.3	1634.8	1312.1	1026.8	762.1	522.0	317.2	184.6
-42.5°	2757.6	2415.9	2084.5	1763.8	1459.7	1171.3	900.8	661.6	449.4	270.2	150.7
-45°	2469.3	2155.5	1857.0	1566.5	1281.4	1025.2	785.0	559.6	373.6	229.6	124.8
-47.5°	2179.3	1903.9	1631.1	1362.4	1116.5	878.8	664.6	471.7	295.3	187.4	111.5
-50°	1903.9	1652.8	1405.2	1171.8	946.2	742.6	546.2	380.5	245.9	143.5	97.7
-52.5°	1631.1	1405.2	1190.3	982.9	789.8	602.2	442.5	290.3	194.8	118.6	83.4
-55°	1362.4	1171.8	982.9	805.6	633.5	480.0	335.9	231.8	142.1	101.8	69.7
-57.5°	1116.5	946.2	789.8	633.5	492.6	360.8	254.2	171.7	115.0	84.4	64.2
-60°	878.8	742.6	602.2	480.0	360.8	261.7	186.6	123.0	95.0	69.0	58.5
-62.5°	664.6	546.2	442.5	335.9	254.2	186.6	125.7	100.3	74.6	62.3	52.7
-65°	471.7	380.5	290.3	231.8	171.7	123.0	100.3	77.2	64.3	55.6	47.1
-67.5°	295.3	245.9	194.8	142.1	115.0	95.0	74.6	64.3	56.5	48.7	42.4
-70°	187.4	143.5	118.6	101.8	84.4	69.0	62.3	55.6	48.7	43.1	37.6
-72.5°	111.5	97.7	83.4	69.7	64.2	58.5	52.7	47.1	42.4	37.6	32.7
-75°	72.0	66.6	62.1	57.5	52.8	48.1	44.1	40.2	36.1	31.9	28.5
-77.5°	56.4	52.8	49.1	46.0	42.9	39.7	36.4	33.1	30.1	27.4	24.7
-80°	43.3	41.0	38.7	36.3	33.8	31.3	29.3	27.2	25.1	22.9	20.7
-82.5°	31.8	30.4	29.0	27.6	26.2	24.7	23.2	21.6	20.0	18.4	16.3
-85°	22.8	21.9	21.0	20.0	19.1	18.1	16.7	15.3	13.8	12.4	10.9
-87.5°	12.2	11.6	11.0	10.4	9.7	9.0	8.4	7.6	6.9	6.2	5.4
-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°	4.7	3.9	3.1	2.4	1.6	0.8	0.0
85°	9.4	7.8	6.3	4.7	3.2	1.6	0.0
82.5°	14.0	11.7	9.4	7.1	4.7	2.4	0.0
80°	18.5	15.6	12.5	9.4	6.3	3.1	0.0
77.5°	21.9	19.1	15.6	11.7	7.8	3.9	0.0
75°	25.2	21.9	18.5	14.0	9.4	4.7	0.0
72.5°	28.5	24.7	20.7	16.3	10.9	5.4	0.0
70°	31.9	27.4	22.9	18.4	12.4	6.2	0.0
67.5°	36.1	30.1	25.1	20.0	13.8	6.9	0.0
65°	40.2	33.1	27.2	21.6	15.3	7.6	0.0
62.5°	44.1	36.4	29.3	23.2	16.7	8.4	0.0
60°	48.1	39.7	31.3	24.7	18.1	9.0	0.0
57.5°	52.8	42.9	33.8	26.2	19.1	9.7	0.0
55°	57.5	46.0	36.3	27.6	20.0	10.4	0.0
52.5°	62.1	49.1	38.7	29.0	21.0	11.0	0.0
50°	66.6	52.8	41.0	30.4	21.9	11.6	0.0
47.5°	72.0	56.4	43.3	31.8	22.8	12.2	0.0
45°	83.4	59.9	45.4	33.4	23.6	12.8	0.0
42.5°	94.3	63.2	47.5	35.0	24.4	13.3	0.0
40°	104.7	66.3	49.8	36.5	25.2	13.9	0.0
37.5°	114.6	69.3	52.1	37.9	25.9	14.4	0.0
35°	124.0	75.4	54.4	39.2	26.6	14.8	0.0
32.5°	137.4	82.7	56.5	40.4	27.2	15.3	0.0
30°	160.3	89.6	58.5	41.6	27.8	15.7	0.0
27.5°	181.5	95.9	60.4	42.7	28.4	16.1	0.0
25°	201.1	101.7	62.1	43.7	28.9	16.4	0.0
22.5°	218.9	107.1	63.6	44.6	29.4	16.7	0.0
20°	235.0	111.9	65.0	45.4	29.8	17.0	0.0
17.5°	249.2	116.1	66.2	46.1	30.2	17.3	0.0
15°	261.7	119.8	67.3	46.7	30.5	17.5	0.0
12.5°	272.2	123.0	68.2	47.3	30.8	17.7	0.0
10°	280.9	125.6	69.0	47.7	31.0	17.8	0.0
7.5°	287.7	127.6	69.5	48.1	31.2	17.9	0.0
5°	292.5	129.0	70.0	48.3	31.3	18.0	0.0
2.5°	295.4	129.9	70.2	48.5	31.4	18.1	0.0
0°	296.4	130.2	70.3	48.5	31.4	18.1	0.0
-2.5°	295.4	129.9	70.2	48.5	31.4	18.1	0.0
-5°	292.5	129.0	70.0	48.3	31.3	18.0	0.0
-7.5°	287.7	127.6	69.5	48.1	31.2	17.9	0.0
-10°	280.9	125.6	69.0	47.7	31.0	17.8	0.0
-12.5°	272.2	123.0	68.2	47.3	30.8	17.7	0.0
-15°	261.7	119.8	67.3	46.7	30.5	17.5	0.0
-17.5°	249.2	116.1	66.2	46.1	30.2	17.3	0.0
-20°	235.0	111.9	65.0	45.4	29.8	17.0	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	218.9	107.1	63.6	44.6	29.4	16.7	0.0
-25°	201.1	101.7	62.1	43.7	28.9	16.4	0.0
-27.5°	181.5	95.9	60.4	42.7	28.4	16.1	0.0
-30°	160.3	89.6	58.5	41.6	27.8	15.7	0.0
-32.5°	137.4	82.7	56.5	40.4	27.2	15.3	0.0
-35°	124.0	75.4	54.4	39.2	26.6	14.8	0.0
-37.5°	114.6	69.3	52.1	37.9	25.9	14.4	0.0
-40°	104.7	66.3	49.8	36.5	25.2	13.9	0.0
-42.5°	94.3	63.2	47.5	35.0	24.4	13.3	0.0
-45°	83.4	59.9	45.4	33.4	23.6	12.8	0.0
-47.5°	72.0	56.4	43.3	31.8	22.8	12.2	0.0
-50°	66.6	52.8	41.0	30.4	21.9	11.6	0.0
-52.5°	62.1	49.1	38.7	29.0	21.0	11.0	0.0
-55°	57.5	46.0	36.3	27.6	20.0	10.4	0.0
-57.5°	52.8	42.9	33.8	26.2	19.1	9.7	0.0
-60°	48.1	39.7	31.3	24.7	18.1	9.0	0.0
-62.5°	44.1	36.4	29.3	23.2	16.7	8.4	0.0
-65°	40.2	33.1	27.2	21.6	15.3	7.6	0.0
-67.5°	36.1	30.1	25.1	20.0	13.8	6.9	0.0
-70°	31.9	27.4	22.9	18.4	12.4	6.2	0.0
-72.5°	28.5	24.7	20.7	16.3	10.9	5.4	0.0
-75°	25.2	21.9	18.5	14.0	9.4	4.7	0.0
-77.5°	21.9	19.1	15.6	11.7	7.8	3.9	0.0
-80°	18.5	15.6	12.5	9.4	6.3	3.1	0.0
-82.5°	14.0	11.7	9.4	7.1	4.7	2.4	0.0
-85°	9.4	7.8	6.3	4.7	3.2	1.6	0.0
-87.5°	4.7	3.9	3.1	2.4	1.6	0.8	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)