

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: P413428 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-08-0320L-57-70-1S-HEG**

Issue Date: 10/30/2020

Test Information

Test Method: LM-79-08
Report Number: P413428 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1912-617-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/30/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-08-0320L-57-70-1S-HEG
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 5700K, 70 CRI LEDS AND 1S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

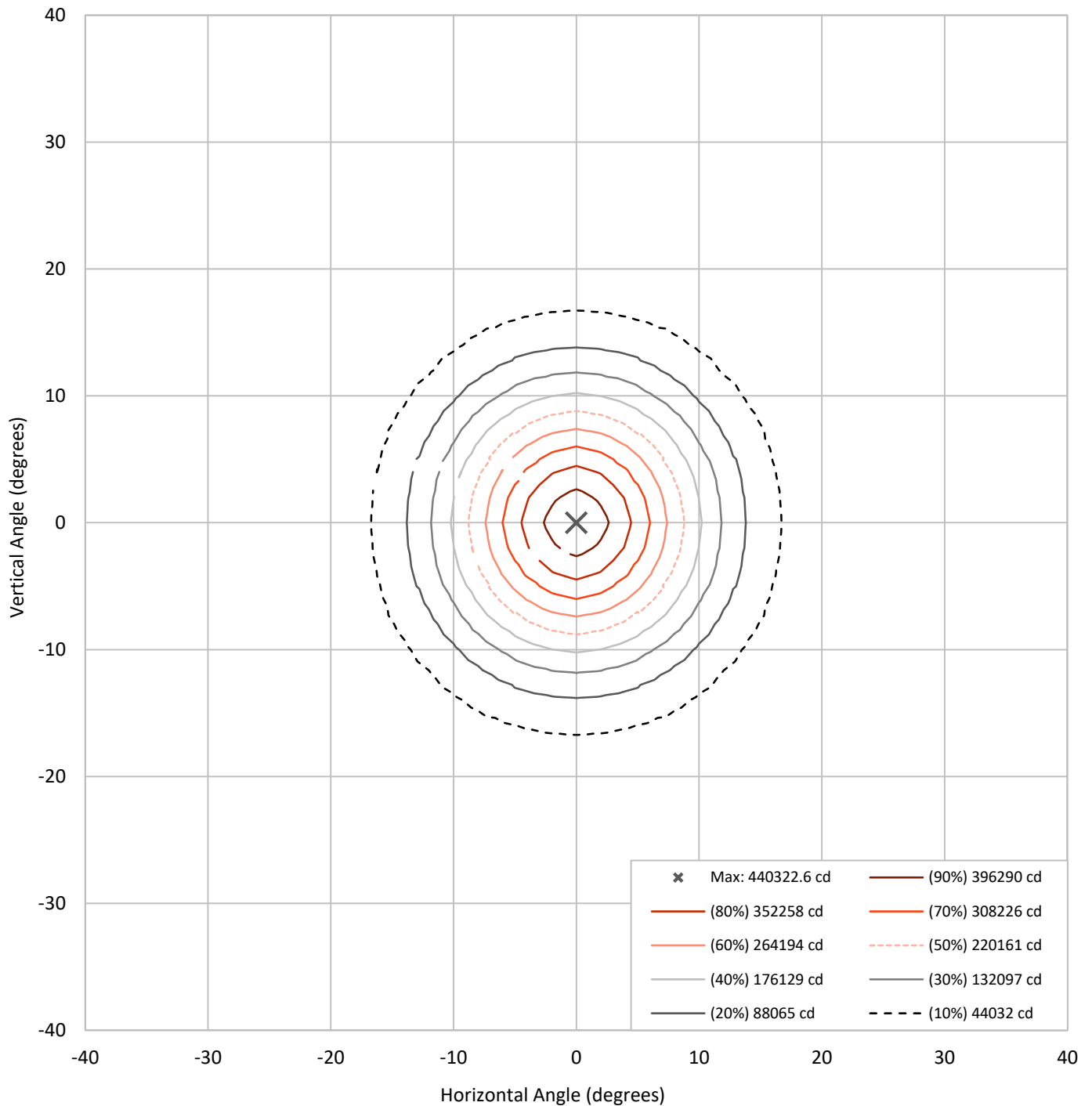
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	53634.9 lumens	Max Intensity:	440322.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	155.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	17.6°H x 17.6°V	Field Angle (10%):	33.3°H x 33.3°V
Beam Lumens:	19521 lumens	Field Lumens:	43762.8 lumens
Beam Efficiency:	36.4%	Field Efficiency:	81.6%
Input Watts (W):	346		
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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CATALOG NUMBER: EPH-08-0320L-57-70-1S-HEG

Iso-Candela Plot





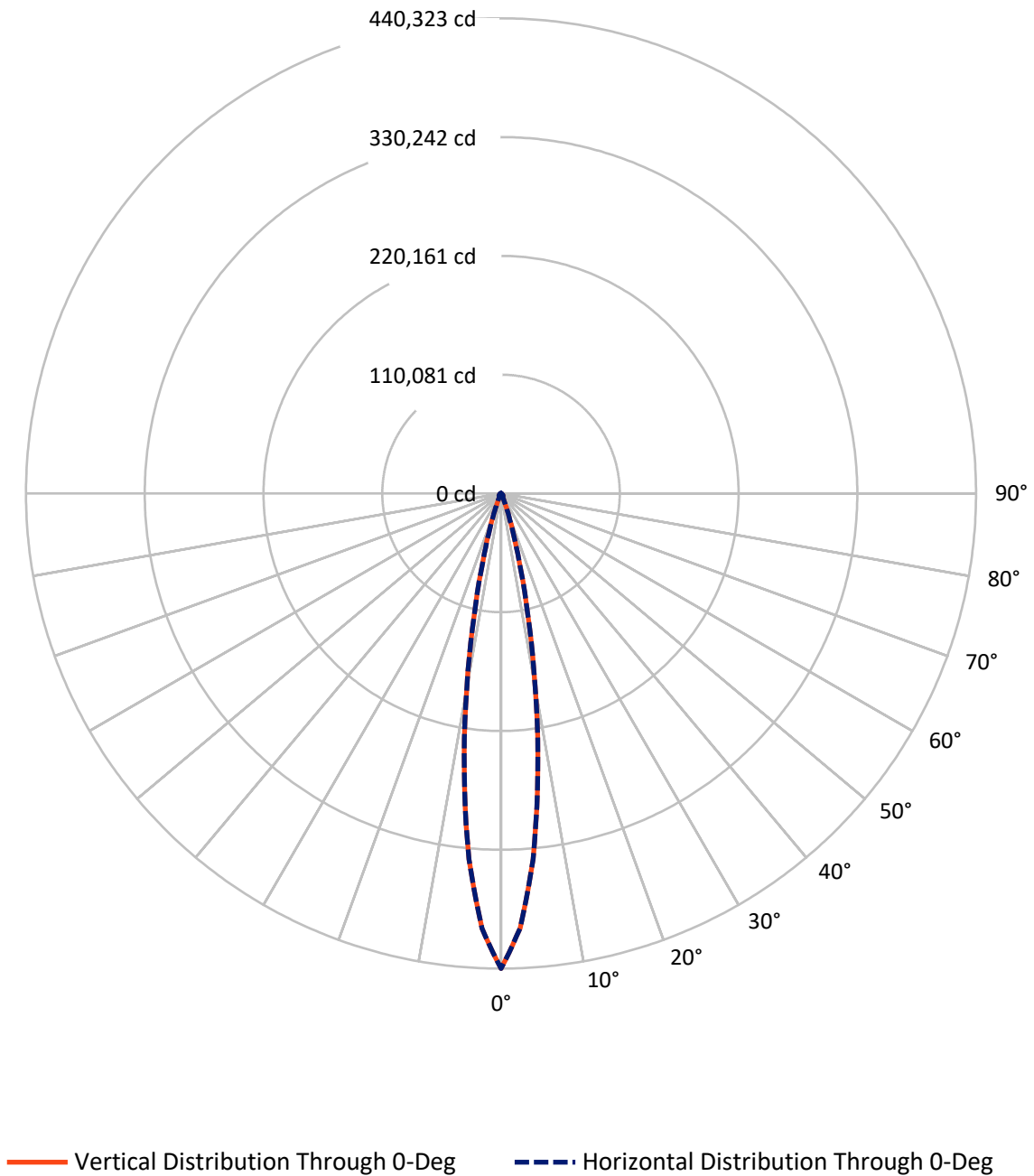
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Lumen Table

90	0.2	0.9	2.1	4.5	5.8	4.5	2.1	0.9	0.2										
80	0.2	0.9	2.1	4.5	5.8	4.5	2.1	0.9	0.2										
70	0.4	0.3	0.9	2.9	5.9	9.2	11.9	13.4	13.4	11.9	9.2	5.9	2.9	0.9	0.3	0.4			
60		0.7	3.5	8.5	14.7	19.7	22.8	24.6	24.6	22.8	19.7	14.7	8.5	3.5	0.7				
50	0.6	1.8	6.9	14.5	20.8	37.0	59.6	71.8	71.8	59.6	37.0	20.8	14.5	6.9	1.8	0.6			
40		3.1	10.4	18.0	45.6	77.8	83.2	81.6	81.6	83.2	77.8	45.6	18.0	10.4	3.1				
30	1.2	4.4	12.5	29.2	70.4	73.4	77.4	136.2	136.2	77.4	73.4	70.4	29.2	12.5	4.4	1.2			
20		5.4	13.6	44.3	70.5	72.7	470.8	1872.5	1872.5	470.8	72.7	70.5	44.3	13.6	5.4				
10	1.5	5.9	14.2	51.6	66.9	125.3	1827.6	7679.2	7679.2	1827.6	125.3	66.9	51.6	14.2	5.9	1.5			
0		5.9	14.2	51.6	66.9	125.3	1827.6	7679.2	7679.2	1827.6	125.3	66.9	51.6	14.2	5.9				
-10	1.2	5.4	13.6	44.3	70.5	72.7	470.8	1872.5	1872.5	470.8	72.7	70.5	44.3	13.6	5.4	1.2			
-20		4.4	12.5	29.2	70.4	73.4	77.4	136.2	136.2	77.4	73.4	70.4	29.2	12.5	4.4				
-30	0.6	3.1	10.4	18.0	45.6	77.8	83.2	81.6	81.6	83.2	77.8	45.6	18.0	10.4	3.1	0.6			
-40		1.8	6.9	14.5	20.8	37.0	59.6	71.8	71.8	59.6	37.0	20.8	14.5	6.9	1.8				
-50	0.4	0.7	3.5	8.5	14.7	19.7	22.8	24.6	24.6	22.8	19.7	14.7	8.5	3.5	0.7	0.4			
-60		0.3	0.9	2.9	5.9	9.2	11.9	13.4	13.4	11.9	9.2	5.9	2.9	0.9	0.3				
-70	0.2	0.9	2.1	4.5	5.8	4.5	2.1	0.9	0.2										
-80		0.2	0.9	2.1	4.5	5.8	4.5	2.1	0.9	0.2									
-90	0.2	0.9	2.1	4.5	5.8	4.5	2.1	0.9	0.2										
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

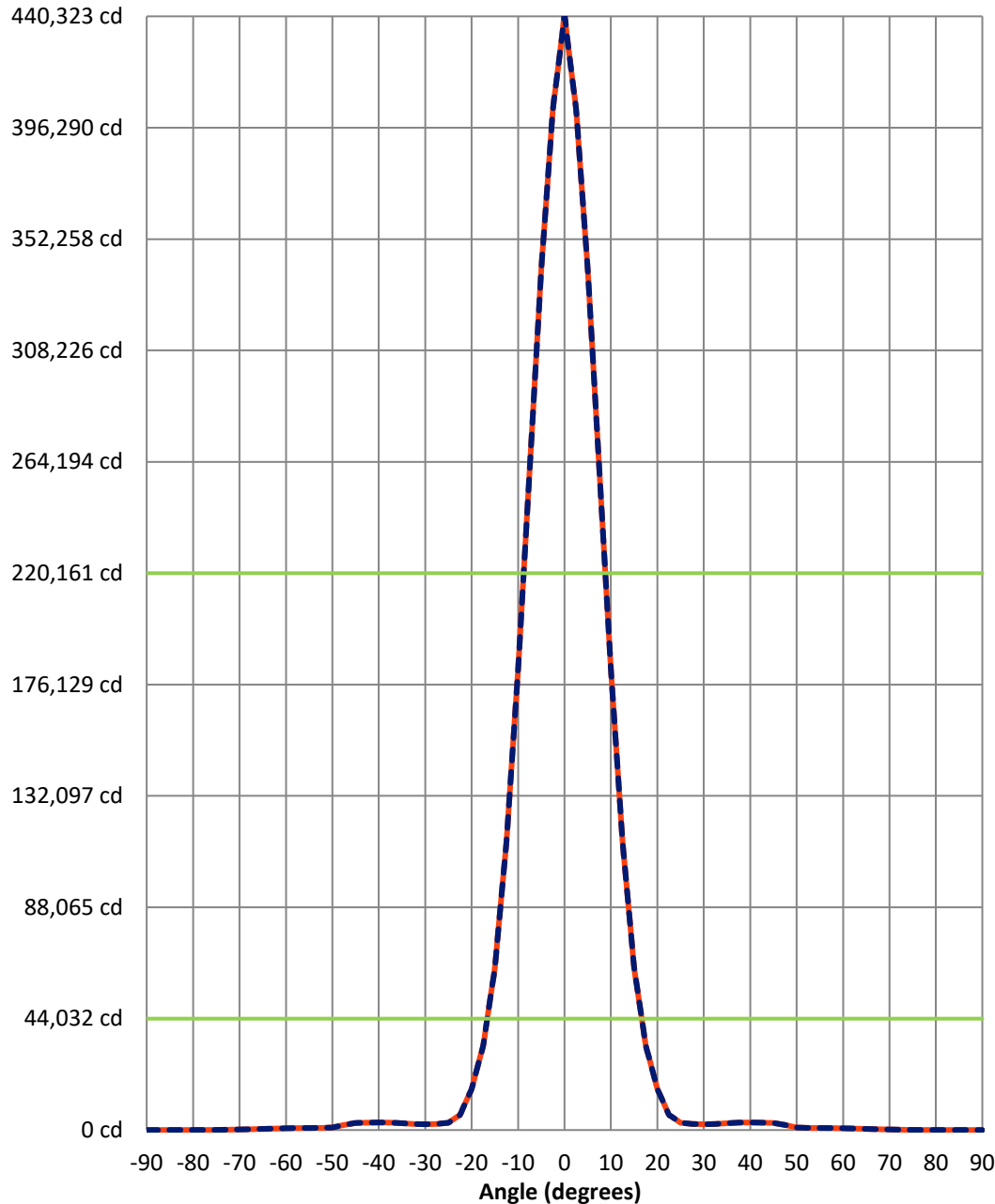
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 17.6°
 V Angle: 17.6°
 Lumens: 19521
 Efficiency: 36.4%

Field:
 H Angle: 33.3°
 V Angle: 33.3°
 Lumens: 43762.8
 Efficiency: 81.6%

Spill:
 Lumens: 9872.1
 Efficiency: 18.4%

- 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	1.2	1.5	1.8	2.1	2.4	2.7	3.0
85°	0.0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	5.9
82.5°	0.0	0.9	1.8	2.7	3.6	4.5	5.4	6.3	7.4	9.2	11.0
80°	0.0	1.2	2.4	3.6	4.8	6.0	7.5	10.0	12.4	14.9	17.3
77.5°	0.0	1.5	3.0	4.5	6.0	8.1	11.3	14.4	17.5	20.5	20.9
75°	0.0	1.8	3.6	5.4	7.5	11.3	15.0	18.8	21.7	19.0	16.4
72.5°	0.0	2.1	4.2	6.3	10.0	14.4	18.8	21.2	18.0	14.9	11.9
70°	0.0	2.4	4.8	7.4	12.4	17.5	21.7	18.0	14.4	11.2	17.8
67.5°	0.0	2.7	5.4	9.2	14.9	20.5	19.0	14.9	11.2	18.7	26.2
65°	0.0	3.0	5.9	11.0	17.3	20.9	16.4	11.9	17.8	26.2	31.1
62.5°	0.0	3.2	6.5	12.7	19.6	18.8	13.8	15.0	24.3	31.4	28.0
60°	0.0	3.5	7.0	14.5	21.9	16.7	11.3	20.6	30.7	28.7	25.0
57.5°	0.0	3.8	8.1	16.1	20.4	14.6	15.1	26.1	30.1	26.0	30.2
55°	0.0	4.0	9.2	17.8	18.8	12.6	19.7	31.4	27.8	25.8	39.3
52.5°	0.0	4.3	10.2	19.3	17.3	11.6	24.1	30.2	25.5	33.7	48.1
50°	0.0	4.5	11.3	20.9	15.8	15.2	28.4	28.3	26.0	41.4	74.6
47.5°	0.0	4.7	12.3	21.7	14.4	18.6	31.8	26.5	32.6	48.8	102.4
45°	0.0	4.9	13.2	20.7	13.0	21.9	30.3	24.7	39.0	72.5	129.2
42.5°	0.0	5.2	14.1	19.7	11.6	25.1	28.8	27.1	45.1	95.6	156.5
40°	0.0	5.4	15.0	18.8	12.2	28.2	27.4	32.2	55.3	117.8	183.0
37.5°	0.0	5.6	15.8	17.8	14.5	31.1	26.1	37.0	74.0	139.3	208.2
35°	0.0	5.7	16.6	17.0	16.7	31.3	24.8	41.6	91.7	160.6	232.0
32.5°	0.0	5.9	17.3	16.2	18.7	30.3	25.1	45.9	108.3	180.8	254.3
30°	0.0	6.1	18.0	15.4	20.7	29.4	28.5	52.2	123.9	199.7	275.2
27.5°	0.0	6.2	18.6	14.7	22.4	28.6	31.7	64.8	138.8	217.3	294.7
25°	0.0	6.3	19.2	14.1	24.1	27.8	34.7	76.4	153.1	233.3	313.0
22.5°	0.0	6.5	19.7	13.5	25.5	27.1	37.3	87.0	166.1	248.0	337.9
20°	0.0	6.6	20.2	13.0	26.9	26.4	39.8	96.5	177.9	261.2	360.4
17.5°	0.0	6.7	20.6	12.5	28.1	25.9	41.9	105.0	188.3	272.9	380.5
15°	0.0	6.8	21.0	12.1	29.1	25.4	43.8	112.4	197.4	283.2	397.9
12.5°	0.0	6.8	21.3	11.8	30.0	25.0	45.4	118.6	205.2	291.9	412.8
10°	0.0	6.9	21.5	11.5	30.7	24.6	46.7	123.8	211.5	299.1	425.0
7.5°	0.0	6.9	21.7	11.3	31.3	24.3	47.7	127.8	216.5	304.7	434.6
5°	0.0	7.0	21.9	11.1	31.7	24.2	48.4	130.7	220.0	308.7	441.4
2.5°	0.0	7.0	22.0	11.0	31.9	24.0	48.9	132.4	222.2	311.1	445.5
0°	0.0	7.0	22.0	11.0	32.0	24.0	49.0	133.0	222.9	311.9	446.9
-2.5°	0.0	7.0	22.0	11.0	31.9	24.0	48.9	132.4	222.2	311.1	445.5
-5°	0.0	7.0	21.9	11.1	31.7	24.2	48.4	130.7	220.0	308.7	441.4
-7.5°	0.0	6.9	21.7	11.3	31.3	24.3	47.7	127.8	216.5	304.7	434.6
-10°	0.0	6.9	21.5	11.5	30.7	24.6	46.7	123.8	211.5	299.1	425.0
-12.5°	0.0	6.8	21.3	11.8	30.0	25.0	45.4	118.6	205.2	291.9	412.8
-15°	0.0	6.8	21.0	12.1	29.1	25.4	43.8	112.4	197.4	283.2	397.9
-17.5°	0.0	6.7	20.6	12.5	28.1	25.9	41.9	105.0	188.3	272.9	380.5
-20°	0.0	6.6	20.2	13.0	26.9	26.4	39.8	96.5	177.9	261.2	360.4



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 CATALOG NUMBER: EPH-08-0320L-57-70-1S-HEG

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	6.5	19.7	13.5	25.5	27.1	37.3	87.0	166.1	248.0	337.9
-25°	0.0	6.3	19.2	14.1	24.1	27.8	34.7	76.4	153.1	233.3	313.0
-27.5°	0.0	6.2	18.6	14.7	22.4	28.6	31.7	64.8	138.8	217.3	294.7
-30°	0.0	6.1	18.0	15.4	20.7	29.4	28.5	52.2	123.9	199.7	275.2
-32.5°	0.0	5.9	17.3	16.2	18.7	30.3	25.1	45.9	108.3	180.8	254.3
-35°	0.0	5.7	16.6	17.0	16.7	31.3	24.8	41.6	91.7	160.6	232.0
-37.5°	0.0	5.6	15.8	17.8	14.5	31.1	26.1	37.0	74.0	139.3	208.2
-40°	0.0	5.4	15.0	18.8	12.2	28.2	27.4	32.2	55.3	117.8	183.0
-42.5°	0.0	5.2	14.1	19.7	11.6	25.1	28.8	27.1	45.1	95.6	156.5
-45°	0.0	4.9	13.2	20.7	13.0	21.9	30.3	24.7	39.0	72.5	129.2
-47.5°	0.0	4.7	12.3	21.7	14.4	18.6	31.8	26.5	32.6	48.8	102.4
-50°	0.0	4.5	11.3	20.9	15.8	15.2	28.4	28.3	26.0	41.4	74.6
-52.5°	0.0	4.3	10.2	19.3	17.3	11.6	24.1	30.2	25.5	33.7	48.1
-55°	0.0	4.0	9.2	17.8	18.8	12.6	19.7	31.4	27.8	25.8	39.3
-57.5°	0.0	3.8	8.1	16.1	20.4	14.6	15.1	26.1	30.1	26.0	30.2
-60°	0.0	3.5	7.0	14.5	21.9	16.7	11.3	20.6	30.7	28.7	25.0
-62.5°	0.0	3.2	6.5	12.7	19.6	18.8	13.8	15.0	24.3	31.4	28.0
-65°	0.0	3.0	5.9	11.0	17.3	20.9	16.4	11.9	17.8	26.2	31.1
-67.5°	0.0	2.7	5.4	9.2	14.9	20.5	19.0	14.9	11.2	18.7	26.2
-70°	0.0	2.4	4.8	7.4	12.4	17.5	21.7	18.0	14.4	11.2	17.8
-72.5°	0.0	2.1	4.2	6.3	10.0	14.4	18.8	21.2	18.0	14.9	11.9
-75°	0.0	1.8	3.6	5.4	7.5	11.3	15.0	18.8	21.7	19.0	16.4
-77.5°	0.0	1.5	3.0	4.5	6.0	8.1	11.3	14.4	17.5	20.5	20.9
-80°	0.0	1.2	2.4	3.6	4.8	6.0	7.5	10.0	12.4	14.9	17.3
-82.5°	0.0	0.9	1.8	2.7	3.6	4.5	5.4	6.3	7.4	9.2	11.0
-85°	0.0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	5.9
-87.5°	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: EPH-08-0320L-57-70-1S-HEG

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°	3.2	3.5	3.8	4.0	4.3	4.5	4.7	4.9	5.2	5.4	5.6
85°	6.5	7.0	8.1	9.2	10.2	11.3	12.3	13.2	14.1	15.0	15.8
82.5°	12.7	14.5	16.1	17.8	19.3	20.9	21.7	20.7	19.7	18.8	17.8
80°	19.6	21.9	20.4	18.8	17.3	15.8	14.4	13.0	11.6	12.2	14.5
77.5°	18.8	16.7	14.6	12.6	11.6	15.2	18.6	21.9	25.1	28.2	31.1
75°	13.8	11.3	15.1	19.7	24.1	28.4	31.8	30.3	28.8	27.4	26.1
72.5°	15.0	20.6	26.1	31.4	30.2	28.3	26.5	24.7	27.1	32.2	37.0
70°	24.3	30.7	30.1	27.8	25.5	26.0	32.6	39.0	45.1	55.3	74.0
67.5°	31.4	28.7	26.0	25.8	33.7	41.4	48.8	72.5	95.6	117.8	139.3
65°	28.0	25.0	30.2	39.3	48.1	74.6	102.4	129.2	156.5	183.0	208.2
62.5°	24.6	32.5	42.6	61.0	93.5	125.1	157.3	189.0	219.4	248.4	275.9
60°	32.5	43.8	68.6	105.0	140.9	177.9	213.6	248.0	281.0	313.0	358.9
57.5°	42.6	68.6	108.8	149.2	190.3	230.2	268.6	305.8	357.1	409.4	458.6
55°	61.0	105.0	149.2	194.4	238.4	281.1	328.1	389.0	447.8	501.0	552.0
52.5°	93.5	140.9	190.3	238.4	285.3	340.8	408.3	472.1	531.7	588.3	640.6
50°	125.1	177.9	230.2	281.1	340.8	414.7	484.4	550.2	612.0	670.6	716.5
47.5°	157.3	213.6	268.6	328.1	408.3	484.4	556.4	624.0	688.7	733.1	773.9
45°	189.0	248.0	305.8	389.0	472.1	550.2	624.0	694.8	741.4	779.9	793.7
42.5°	219.4	281.0	357.1	447.8	531.7	612.0	688.7	741.4	781.2	796.4	814.3
40°	248.4	313.0	409.4	501.0	588.3	670.6	733.1	779.9	796.4	816.2	837.7
37.5°	275.9	358.9	458.6	552.0	640.6	716.5	773.9	793.7	814.3	837.7	934.0
35°	302.1	402.5	503.4	599.3	690.5	752.9	788.3	808.5	833.8	925.1	1213.2
32.5°	334.5	443.8	545.8	643.1	724.1	780.2	800.0	826.0	898.7	1096.9	1809.4
30°	369.7	480.4	585.1	684.4	754.4	790.6	814.4	855.3	976.5	1631.5	2293.7
27.5°	402.5	514.3	620.5	713.9	778.7	800.3	829.0	923.7	1339.1	2108.3	2707.7
25°	432.8	545.8	653.3	738.1	787.0	811.9	854.9	987.6	1781.0	2471.8	2840.0
22.5°	459.7	574.5	683.3	760.4	794.7	823.4	909.6	1317.8	2148.9	2795.7	2895.8
20°	483.2	599.3	705.4	778.0	801.7	833.9	959.4	1664.2	2435.6	2843.3	2934.1
17.5°	504.2	621.3	721.9	783.7	809.9	858.3	1043.4	1975.3	2693.7	2886.2	2962.6
15°	522.5	640.6	736.3	788.7	817.4	894.4	1295.9	2194.3	2813.0	2920.0	2986.7
12.5°	538.1	657.0	748.6	793.0	823.9	925.3	1512.2	2374.5	2843.1	2940.1	2971.6
10°	550.9	670.6	758.7	796.5	829.2	950.8	1691.1	2523.8	2868.1	2956.9	2959.1
7.5°	561.0	681.1	766.6	799.2	833.4	970.8	1831.5	2641.1	2887.8	2970.0	2949.2
5°	568.1	688.7	772.2	801.2	836.4	985.2	1932.4	2725.4	2901.9	2979.5	2942.1
2.5°	572.5	693.3	775.7	802.4	838.2	993.8	1993.2	2776.3	2910.4	2985.3	2937.7
0°	573.9	694.8	776.8	802.8	838.8	996.7	2013.5	2793.3	2913.3	2987.2	2936.3
-2.5°	572.5	693.3	775.7	802.4	838.2	993.8	1993.2	2776.3	2910.4	2985.3	2937.7
-5°	568.1	688.7	772.2	801.2	836.4	985.2	1932.4	2725.4	2901.9	2979.5	2942.1
-7.5°	561.0	681.1	766.6	799.2	833.4	970.8	1831.5	2641.1	2887.8	2970.0	2949.2
-10°	550.9	670.6	758.7	796.5	829.2	950.8	1691.1	2523.8	2868.1	2956.9	2959.1
-12.5°	538.1	657.0	748.6	793.0	823.9	925.3	1512.2	2374.5	2843.1	2940.1	2971.6
-15°	522.5	640.6	736.3	788.7	817.4	894.4	1295.9	2194.3	2813.0	2920.0	2986.7
-17.5°	504.2	621.3	721.9	783.7	809.9	858.3	1043.4	1975.3	2693.7	2886.2	2962.6
-20°	483.2	599.3	705.4	778.0	801.7	833.9	959.4	1664.2	2435.6	2843.3	2934.1



REPORT NUMBER: P413428 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-08-0320L-57-70-1S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	459.7	574.5	683.3	760.4	794.7	823.4	909.6	1317.8	2148.9	2795.7	2895.8
-25°	432.8	545.8	653.3	738.1	787.0	811.9	854.9	987.6	1781.0	2471.8	2840.0
-27.5°	402.5	514.3	620.5	713.9	778.7	800.3	829.0	923.7	1339.1	2108.3	2707.7
-30°	369.7	480.4	585.1	684.4	754.4	790.6	814.4	855.3	976.5	1631.5	2293.7
-32.5°	334.5	443.8	545.8	643.1	724.1	780.2	800.0	826.0	898.7	1096.9	1809.4
-35°	302.1	402.5	503.4	599.3	690.5	752.9	788.3	808.5	833.8	925.1	1213.2
-37.5°	275.9	358.9	458.6	552.0	640.6	716.5	773.9	793.7	814.3	837.7	934.0
-40°	248.4	313.0	409.4	501.0	588.3	670.6	733.1	779.9	796.4	816.2	837.7
-42.5°	219.4	281.0	357.1	447.8	531.7	612.0	688.7	741.4	781.2	796.4	814.3
-45°	189.0	248.0	305.8	389.0	472.1	550.2	624.0	694.8	741.4	779.9	793.7
-47.5°	157.3	213.6	268.6	328.1	408.3	484.4	556.4	624.0	688.7	733.1	773.9
-50°	125.1	177.9	230.2	281.1	340.8	414.7	484.4	550.2	612.0	670.6	716.5
-52.5°	93.5	140.9	190.3	238.4	285.3	340.8	408.3	472.1	531.7	588.3	640.6
-55°	61.0	105.0	149.2	194.4	238.4	281.1	328.1	389.0	447.8	501.0	552.0
-57.5°	42.6	68.6	108.8	149.2	190.3	230.2	268.6	305.8	357.1	409.4	458.6
-60°	32.5	43.8	68.6	105.0	140.9	177.9	213.6	248.0	281.0	313.0	358.9
-62.5°	24.6	32.5	42.6	61.0	93.5	125.1	157.3	189.0	219.4	248.4	275.9
-65°	28.0	25.0	30.2	39.3	48.1	74.6	102.4	129.2	156.5	183.0	208.2
-67.5°	31.4	28.7	26.0	25.8	33.7	41.4	48.8	72.5	95.6	117.8	139.3
-70°	24.3	30.7	30.1	27.8	25.5	26.0	32.6	39.0	45.1	55.3	74.0
-72.5°	15.0	20.6	26.1	31.4	30.2	28.3	26.5	24.7	27.1	32.2	37.0
-75°	13.8	11.3	15.1	19.7	24.1	28.4	31.8	30.3	28.8	27.4	26.1
-77.5°	18.8	16.7	14.6	12.6	11.6	15.2	18.6	21.9	25.1	28.2	31.1
-80°	19.6	21.9	20.4	18.8	17.3	15.8	14.4	13.0	11.6	12.2	14.5
-82.5°	12.7	14.5	16.1	17.8	19.3	20.9	21.7	20.7	19.7	18.8	17.8
-85°	6.5	7.0	8.1	9.2	10.2	11.3	12.3	13.2	14.1	15.0	15.8
-87.5°	3.2	3.5	3.8	4.0	4.3	4.5	4.7	4.9	5.2	5.4	5.6
-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: P413428 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0320L-57-70-1S-HEG

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°	5.7	5.9	6.1	6.2	6.3	6.5	6.6	6.7	6.8	6.8	6.9
85°	16.6	17.3	18.0	18.6	19.2	19.7	20.2	20.6	21.0	21.3	21.5
82.5°	17.0	16.2	15.4	14.7	14.1	13.5	13.0	12.5	12.1	11.8	11.5
80°	16.7	18.7	20.7	22.4	24.1	25.5	26.9	28.1	29.1	30.0	30.7
77.5°	31.3	30.3	29.4	28.6	27.8	27.1	26.4	25.9	25.4	25.0	24.6
75°	24.8	25.1	28.5	31.7	34.7	37.3	39.8	41.9	43.8	45.4	46.7
72.5°	41.6	45.9	52.2	64.8	76.4	87.0	96.5	105.0	112.4	118.6	123.8
70°	91.7	108.3	123.9	138.8	153.1	166.1	177.9	188.3	197.4	205.2	211.5
67.5°	160.6	180.8	199.7	217.3	233.3	248.0	261.2	272.9	283.2	291.9	299.1
65°	232.0	254.3	275.2	294.7	313.0	337.9	360.4	380.5	397.9	412.8	425.0
62.5°	302.1	334.5	369.7	402.5	432.8	459.7	483.2	504.2	522.5	538.1	550.9
60°	402.5	443.8	480.4	514.3	545.8	574.5	599.3	621.3	640.6	657.0	670.6
57.5°	503.4	545.8	585.1	620.5	653.3	683.3	705.4	721.9	736.3	748.6	758.7
55°	599.3	643.1	684.4	713.9	738.1	760.4	778.0	783.7	788.7	793.0	796.5
52.5°	690.5	724.1	754.4	778.7	787.0	794.7	801.7	809.9	817.4	823.9	829.2
50°	752.9	780.2	790.6	800.3	811.9	823.4	833.9	858.3	894.4	925.3	950.8
47.5°	788.3	800.0	814.4	829.0	854.9	909.6	959.4	1043.4	1295.9	1512.2	1691.1
45°	808.5	826.0	855.3	923.7	987.6	1317.8	1664.2	1975.3	2194.3	2374.5	2523.8
42.5°	833.8	898.7	976.5	1339.1	1781.0	2148.9	2435.6	2693.7	2813.0	2843.1	2868.1
40°	925.1	1096.9	1631.5	2108.3	2471.8	2795.7	2843.3	2886.2	2920.0	2940.1	2956.9
37.5°	1213.2	1809.4	2293.7	2707.7	2840.0	2895.8	2934.1	2962.6	2986.7	2971.6	2959.1
35°	1869.1	2387.4	2802.3	2870.2	2926.2	2963.0	2980.4	2959.2	2940.3	2878.0	2813.3
32.5°	2387.4	2809.7	2885.5	2940.7	2982.8	2963.0	2937.9	2835.3	2738.4	2643.1	2553.6
30°	2802.3	2885.5	2945.5	2983.3	2952.4	2874.6	2746.5	2611.6	2478.2	2379.9	2346.3
27.5°	2870.2	2940.7	2983.3	2948.8	2839.5	2691.2	2516.4	2377.9	2328.2	2284.6	2327.7
25°	2926.2	2982.8	2952.4	2839.5	2667.8	2467.9	2351.9	2292.4	2338.7	2395.0	2540.8
22.5°	2963.0	2963.0	2874.6	2691.2	2467.9	2343.2	2296.6	2372.6	2537.4	2774.6	3495.8
20°	2980.4	2937.9	2746.5	2516.4	2351.9	2296.6	2384.1	2630.3	3119.8	4843.4	6987.2
17.5°	2959.2	2835.3	2611.6	2377.9	2292.4	2372.6	2630.3	3449.2	5542.1	10578.5	15956.7
15°	2940.3	2738.4	2478.2	2328.2	2338.7	2537.4	3119.8	5542.1	11810.3	20179.6	30304.3
12.5°	2878.0	2643.1	2379.9	2284.6	2395.0	2774.6	4843.4	10578.5	20179.6	32763.4	52437.3
10°	2813.3	2553.6	2346.3	2327.7	2540.8	3495.8	6987.2	15956.7	30304.3	52437.3	82038.0
7.5°	2762.2	2482.6	2319.6	2362.4	2688.6	4582.4	10928.6	23212.6	42932.3	73247.3	114706.7
5°	2725.2	2431.1	2300.2	2387.8	2796.9	5383.4	13856.8	28823.6	54459.7	95165.8	150220.0
2.5°	2702.8	2399.9	2288.4	2403.2	2863.0	5874.8	15663.6	32314.3	61717.7	109222.4	173683.9
0°	2695.3	2389.4	2284.4	2408.4	2885.3	6040.5	16274.8	33500.4	64200.6	114083.9	181955.5
-2.5°	2702.8	2399.9	2288.4	2403.2	2863.0	5874.8	15663.6	32314.3	61717.7	109222.4	173683.9
-5°	2725.2	2431.1	2300.2	2387.8	2796.9	5383.4	13856.8	28823.6	54459.7	95165.8	150220.0
-7.5°	2762.2	2482.6	2319.6	2362.4	2688.6	4582.4	10928.6	23212.6	42932.3	73247.3	114706.7
-10°	2813.3	2553.6	2346.3	2327.7	2540.8	3495.8	6987.2	15956.7	30304.3	52437.3	82038.0
-12.5°	2878.0	2643.1	2379.9	2284.6	2395.0	2774.6	4843.4	10578.5	20179.6	32763.4	52437.3
-15°	2940.3	2738.4	2478.2	2328.2	2338.7	2537.4	3119.8	5542.1	11810.3	20179.6	30304.3
-17.5°	2959.2	2835.3	2611.6	2377.9	2292.4	2372.6	2630.3	3449.2	5542.1	10578.5	15956.7
-20°	2980.4	2937.9	2746.5	2516.4	2351.9	2296.6	2384.1	2630.3	3119.8	4843.4	6987.2



REPORT NUMBER: P413428 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-08-0320L-57-70-1S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	2963.0	2963.0	2874.6	2691.2	2467.9	2343.2	2296.6	2372.6	2537.4	2774.6	3495.8
-25°	2926.2	2982.8	2952.4	2839.5	2667.8	2467.9	2351.9	2292.4	2338.7	2395.0	2540.8
-27.5°	2870.2	2940.7	2983.3	2948.8	2839.5	2691.2	2516.4	2377.9	2328.2	2284.6	2327.7
-30°	2802.3	2885.5	2945.5	2983.3	2952.4	2874.6	2746.5	2611.6	2478.2	2379.9	2346.3
-32.5°	2387.4	2809.7	2885.5	2940.7	2982.8	2963.0	2937.9	2835.3	2738.4	2643.1	2553.6
-35°	1869.1	2387.4	2802.3	2870.2	2926.2	2963.0	2980.4	2959.2	2940.3	2878.0	2813.3
-37.5°	1213.2	1809.4	2293.7	2707.7	2840.0	2895.8	2934.1	2962.6	2986.7	2971.6	2959.1
-40°	925.1	1096.9	1631.5	2108.3	2471.8	2795.7	2843.3	2886.2	2920.0	2940.1	2956.9
-42.5°	833.8	898.7	976.5	1339.1	1781.0	2148.9	2435.6	2693.7	2813.0	2843.1	2868.1
-45°	808.5	826.0	855.3	923.7	987.6	1317.8	1664.2	1975.3	2194.3	2374.5	2523.8
-47.5°	788.3	800.0	814.4	829.0	854.9	909.6	959.4	1043.4	1295.9	1512.2	1691.1
-50°	752.9	780.2	790.6	800.3	811.9	823.4	833.9	858.3	894.4	925.3	950.8
-52.5°	690.5	724.1	754.4	778.7	787.0	794.7	801.7	809.9	817.4	823.9	829.2
-55°	599.3	643.1	684.4	713.9	738.1	760.4	778.0	783.7	788.7	793.0	796.5
-57.5°	503.4	545.8	585.1	620.5	653.3	683.3	705.4	721.9	736.3	748.6	758.7
-60°	402.5	443.8	480.4	514.3	545.8	574.5	599.3	621.3	640.6	657.0	670.6
-62.5°	302.1	334.5	369.7	402.5	432.8	459.7	483.2	504.2	522.5	538.1	550.9
-65°	232.0	254.3	275.2	294.7	313.0	337.9	360.4	380.5	397.9	412.8	425.0
-67.5°	160.6	180.8	199.7	217.3	233.3	248.0	261.2	272.9	283.2	291.9	299.1
-70°	91.7	108.3	123.9	138.8	153.1	166.1	177.9	188.3	197.4	205.2	211.5
-72.5°	41.6	45.9	52.2	64.8	76.4	87.0	96.5	105.0	112.4	118.6	123.8
-75°	24.8	25.1	28.5	31.7	34.7	37.3	39.8	41.9	43.8	45.4	46.7
-77.5°	31.3	30.3	29.4	28.6	27.8	27.1	26.4	25.9	25.4	25.0	24.6
-80°	16.7	18.7	20.7	22.4	24.1	25.5	26.9	28.1	29.1	30.0	30.7
-82.5°	17.0	16.2	15.4	14.7	14.1	13.5	13.0	12.5	12.1	11.8	11.5
-85°	16.6	17.3	18.0	18.6	19.2	19.7	20.2	20.6	21.0	21.3	21.5
-87.5°	5.7	5.9	6.1	6.2	6.3	6.5	6.6	6.7	6.8	6.8	6.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P413428 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0320L-57-70-1S-HEG

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°	6.9	7.0	7.0	7.0	7.0	7.0	6.9	6.9	6.8	6.8	6.7
85°	21.7	21.9	22.0	22.0	22.0	21.9	21.7	21.5	21.3	21.0	20.6
82.5°	11.3	11.1	11.0	11.0	11.0	11.1	11.3	11.5	11.8	12.1	12.5
80°	31.3	31.7	31.9	32.0	31.9	31.7	31.3	30.7	30.0	29.1	28.1
77.5°	24.3	24.2	24.0	24.0	24.0	24.2	24.3	24.6	25.0	25.4	25.9
75°	47.7	48.4	48.9	49.0	48.9	48.4	47.7	46.7	45.4	43.8	41.9
72.5°	127.8	130.7	132.4	133.0	132.4	130.7	127.8	123.8	118.6	112.4	105.0
70°	216.5	220.0	222.2	222.9	222.2	220.0	216.5	211.5	205.2	197.4	188.3
67.5°	304.7	308.7	311.1	311.9	311.1	308.7	304.7	299.1	291.9	283.2	272.9
65°	434.6	441.4	445.5	446.9	445.5	441.4	434.6	425.0	412.8	397.9	380.5
62.5°	561.0	568.1	572.5	573.9	572.5	568.1	561.0	550.9	538.1	522.5	504.2
60°	681.1	688.7	693.3	694.8	693.3	688.7	681.1	670.6	657.0	640.6	621.3
57.5°	766.6	772.2	775.7	776.8	775.7	772.2	766.6	758.7	748.6	736.3	721.9
55°	799.2	801.2	802.4	802.8	802.4	801.2	799.2	796.5	793.0	788.7	783.7
52.5°	833.4	836.4	838.2	838.8	838.2	836.4	833.4	829.2	823.9	817.4	809.9
50°	970.8	985.2	993.8	996.7	993.8	985.2	970.8	950.8	925.3	894.4	858.3
47.5°	1831.5	1932.4	1993.2	2013.5	1993.2	1932.4	1831.5	1691.1	1512.2	1295.9	1043.4
45°	2641.1	2725.4	2776.3	2793.3	2776.3	2725.4	2641.1	2523.8	2374.5	2194.3	1975.3
42.5°	2887.8	2901.9	2910.4	2913.3	2910.4	2901.9	2887.8	2868.1	2843.1	2813.0	2693.7
40°	2970.0	2979.5	2985.3	2987.2	2985.3	2979.5	2970.0	2956.9	2940.1	2920.0	2886.2
37.5°	2949.2	2942.1	2937.7	2936.3	2937.7	2942.1	2949.2	2959.1	2971.6	2986.7	2962.6
35°	2762.2	2725.2	2702.8	2695.3	2702.8	2725.2	2762.2	2813.3	2878.0	2940.3	2959.2
32.5°	2482.6	2431.1	2399.9	2389.4	2399.9	2431.1	2482.6	2553.6	2643.1	2738.4	2835.3
30°	2319.6	2300.2	2288.4	2284.4	2288.4	2300.2	2319.6	2346.3	2379.9	2478.2	2611.6
27.5°	2362.4	2387.8	2403.2	2408.4	2403.2	2387.8	2362.4	2327.7	2284.6	2328.2	2377.9
25°	2688.6	2796.9	2863.0	2885.3	2863.0	2796.9	2688.6	2540.8	2395.0	2338.7	2292.4
22.5°	4582.4	5383.4	5874.8	6040.5	5874.8	5383.4	4582.4	3495.8	2774.6	2537.4	2372.6
20°	10928.6	13856.8	15663.6	16274.8	15663.6	13856.8	10928.6	6987.2	4843.4	3119.8	2630.3
17.5°	23212.6	28823.6	32314.3	33500.4	32314.3	28823.6	23212.6	15956.7	10578.5	5542.1	3449.2
15°	42932.3	54459.7	61717.7	64200.6	61717.7	54459.7	42932.3	30304.3	20179.6	11810.3	5542.1
12.5°	73247.3	95165.8	109222.4	114083.9	109222.4	95165.8	73247.3	52437.3	32763.4	20179.6	10578.5
10°	114706.7	150220.0	173683.9	181955.5	173683.9	150220.0	114706.7	82038.0	52437.3	30304.3	15956.7
7.5°	165899.5	212235.8	247098.5	261113.9	247098.5	212235.8	165899.5	114706.7	73247.3	42932.3	23212.6
5°	212235.8	276171.1	323208.4	340343.1	323208.4	276171.1	212235.8	150220.0	95165.8	54459.7	28823.6
2.5°	247098.5	323208.4	377885.0	403530.5	377885.0	323208.4	247098.5	173683.9	109222.4	61717.7	32314.3
0°	261113.9	340343.1	403530.5	440322.6	403530.5	340343.1	261113.9	181955.5	114083.9	64200.6	33500.4
-2.5°	247098.5	323208.4	377885.0	403530.5	377885.0	323208.4	247098.5	173683.9	109222.4	61717.7	32314.3
-5°	212235.8	276171.1	323208.4	340343.1	323208.4	276171.1	212235.8	150220.0	95165.8	54459.7	28823.6
-7.5°	165899.5	212235.8	247098.5	261113.9	247098.5	212235.8	165899.5	114706.7	73247.3	42932.3	23212.6
-10°	114706.7	150220.0	173683.9	181955.5	173683.9	150220.0	114706.7	82038.0	52437.3	30304.3	15956.7
-12.5°	73247.3	95165.8	109222.4	114083.9	109222.4	95165.8	73247.3	52437.3	32763.4	20179.6	10578.5
-15°	42932.3	54459.7	61717.7	64200.6	61717.7	54459.7	42932.3	30304.3	20179.6	11810.3	5542.1
-17.5°	23212.6	28823.6	32314.3	33500.4	32314.3	28823.6	23212.6	15956.7	10578.5	5542.1	3449.2
-20°	10928.6	13856.8	15663.6	16274.8	15663.6	13856.8	10928.6	6987.2	4843.4	3119.8	2630.3



REPORT NUMBER: P413428 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0320L-57-70-1S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	4582.4	5383.4	5874.8	6040.5	5874.8	5383.4	4582.4	3495.8	2774.6	2537.4	2372.6
-25°	2688.6	2796.9	2863.0	2885.3	2863.0	2796.9	2688.6	2540.8	2395.0	2338.7	2292.4
-27.5°	2362.4	2387.8	2403.2	2408.4	2403.2	2387.8	2362.4	2327.7	2284.6	2328.2	2377.9
-30°	2319.6	2300.2	2288.4	2284.4	2288.4	2300.2	2319.6	2346.3	2379.9	2478.2	2611.6
-32.5°	2482.6	2431.1	2399.9	2389.4	2399.9	2431.1	2482.6	2553.6	2643.1	2738.4	2835.3
-35°	2762.2	2725.2	2702.8	2695.3	2702.8	2725.2	2762.2	2813.3	2878.0	2940.3	2959.2
-37.5°	2949.2	2942.1	2937.7	2936.3	2937.7	2942.1	2949.2	2959.1	2971.6	2986.7	2962.6
-40°	2970.0	2979.5	2985.3	2987.2	2985.3	2979.5	2970.0	2956.9	2940.1	2920.0	2886.2
-42.5°	2887.8	2901.9	2910.4	2913.3	2910.4	2901.9	2887.8	2868.1	2843.1	2813.0	2693.7
-45°	2641.1	2725.4	2776.3	2793.3	2776.3	2725.4	2641.1	2523.8	2374.5	2194.3	1975.3
-47.5°	1831.5	1932.4	1993.2	2013.5	1993.2	1932.4	1831.5	1691.1	1512.2	1295.9	1043.4
-50°	970.8	985.2	993.8	996.7	993.8	985.2	970.8	950.8	925.3	894.4	858.3
-52.5°	833.4	836.4	838.2	838.8	838.2	836.4	833.4	829.2	823.9	817.4	809.9
-55°	799.2	801.2	802.4	802.8	802.4	801.2	799.2	796.5	793.0	788.7	783.7
-57.5°	766.6	772.2	775.7	776.8	775.7	772.2	766.6	758.7	748.6	736.3	721.9
-60°	681.1	688.7	693.3	694.8	693.3	688.7	681.1	670.6	657.0	640.6	621.3
-62.5°	561.0	568.1	572.5	573.9	572.5	568.1	561.0	550.9	538.1	522.5	504.2
-65°	434.6	441.4	445.5	446.9	445.5	441.4	434.6	425.0	412.8	397.9	380.5
-67.5°	304.7	308.7	311.1	311.9	311.1	308.7	304.7	299.1	291.9	283.2	272.9
-70°	216.5	220.0	222.2	222.9	222.2	220.0	216.5	211.5	205.2	197.4	188.3
-72.5°	127.8	130.7	132.4	133.0	132.4	130.7	127.8	123.8	118.6	112.4	105.0
-75°	47.7	48.4	48.9	49.0	48.9	48.4	47.7	46.7	45.4	43.8	41.9
-77.5°	24.3	24.2	24.0	24.0	24.0	24.2	24.3	24.6	25.0	25.4	25.9
-80°	31.3	31.7	31.9	32.0	31.9	31.7	31.3	30.7	30.0	29.1	28.1
-82.5°	11.3	11.1	11.0	11.0	11.0	11.1	11.3	11.5	11.8	12.1	12.5
-85°	21.7	21.9	22.0	22.0	22.0	21.9	21.7	21.5	21.3	21.0	20.6
-87.5°	6.9	7.0	7.0	7.0	7.0	7.0	6.9	6.9	6.8	6.8	6.7
-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: P413428 (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°	6.6	6.5	6.3	6.2	6.1	5.9	5.7	5.6	5.4	5.2	4.9
85°	20.2	19.7	19.2	18.6	18.0	17.3	16.6	15.8	15.0	14.1	13.2
82.5°	13.0	13.5	14.1	14.7	15.4	16.2	17.0	17.8	18.8	19.7	20.7
80°	26.9	25.5	24.1	22.4	20.7	18.7	16.7	14.5	12.2	11.6	13.0
77.5°	26.4	27.1	27.8	28.6	29.4	30.3	31.3	31.1	28.2	25.1	21.9
75°	39.8	37.3	34.7	31.7	28.5	25.1	24.8	26.1	27.4	28.8	30.3
72.5°	96.5	87.0	76.4	64.8	52.2	45.9	41.6	37.0	32.2	27.1	24.7
70°	177.9	166.1	153.1	138.8	123.9	108.3	91.7	74.0	55.3	45.1	39.0
67.5°	261.2	248.0	233.3	217.3	199.7	180.8	160.6	139.3	117.8	95.6	72.5
65°	360.4	337.9	313.0	294.7	275.2	254.3	232.0	208.2	183.0	156.5	129.2
62.5°	483.2	459.7	432.8	402.5	369.7	334.5	302.1	275.9	248.4	219.4	189.0
60°	599.3	574.5	545.8	514.3	480.4	443.8	402.5	358.9	313.0	281.0	248.0
57.5°	705.4	683.3	653.3	620.5	585.1	545.8	503.4	458.6	409.4	357.1	305.8
55°	778.0	760.4	738.1	713.9	684.4	643.1	599.3	552.0	501.0	447.8	389.0
52.5°	801.7	794.7	787.0	778.7	754.4	724.1	690.5	640.6	588.3	531.7	472.1
50°	833.9	823.4	811.9	800.3	790.6	780.2	752.9	716.5	670.6	612.0	550.2
47.5°	959.4	909.6	854.9	829.0	814.4	800.0	788.3	773.9	733.1	688.7	624.0
45°	1664.2	1317.8	987.6	923.7	855.3	826.0	808.5	793.7	779.9	741.4	694.8
42.5°	2435.6	2148.9	1781.0	1339.1	976.5	898.7	833.8	814.3	796.4	781.2	741.4
40°	2843.3	2795.7	2471.8	2108.3	1631.5	1096.9	925.1	837.7	816.2	796.4	779.9
37.5°	2934.1	2895.8	2840.0	2707.7	2293.7	1809.4	1213.2	934.0	837.7	814.3	793.7
35°	2980.4	2963.0	2926.2	2870.2	2802.3	2387.4	1869.1	1213.2	925.1	833.8	808.5
32.5°	2937.9	2963.0	2982.8	2940.7	2885.5	2809.7	2387.4	1809.4	1096.9	898.7	826.0
30°	2746.5	2874.6	2952.4	2983.3	2945.5	2885.5	2802.3	2293.7	1631.5	976.5	855.3
27.5°	2516.4	2691.2	2839.5	2948.8	2983.3	2940.7	2870.2	2707.7	2108.3	1339.1	923.7
25°	2351.9	2467.9	2667.8	2839.5	2952.4	2982.8	2926.2	2840.0	2471.8	1781.0	987.6
22.5°	2296.6	2343.2	2467.9	2691.2	2874.6	2963.0	2963.0	2895.8	2795.7	2148.9	1317.8
20°	2384.1	2296.6	2351.9	2516.4	2746.5	2937.9	2980.4	2934.1	2843.3	2435.6	1664.2
17.5°	2630.3	2372.6	2292.4	2377.9	2611.6	2835.3	2959.2	2962.6	2886.2	2693.7	1975.3
15°	3119.8	2537.4	2338.7	2328.2	2478.2	2738.4	2940.3	2986.7	2920.0	2813.0	2194.3
12.5°	4843.4	2774.6	2395.0	2284.6	2379.9	2643.1	2878.0	2971.6	2940.1	2843.1	2374.5
10°	6987.2	3495.8	2540.8	2327.7	2346.3	2553.6	2813.3	2959.1	2956.9	2868.1	2523.8
7.5°	10928.6	4582.4	2688.6	2362.4	2319.6	2482.6	2762.2	2949.2	2970.0	2887.8	2641.1
5°	13856.8	5383.4	2796.9	2387.8	2300.2	2431.1	2725.2	2942.1	2979.5	2901.9	2725.4
2.5°	15663.6	5874.8	2863.0	2403.2	2288.4	2399.9	2702.8	2937.7	2985.3	2910.4	2776.3
0°	16274.8	6040.5	2885.3	2408.4	2284.4	2389.4	2695.3	2936.3	2987.2	2913.3	2793.3
-2.5°	15663.6	5874.8	2863.0	2403.2	2288.4	2399.9	2702.8	2937.7	2985.3	2910.4	2776.3
-5°	13856.8	5383.4	2796.9	2387.8	2300.2	2431.1	2725.2	2942.1	2979.5	2901.9	2725.4
-7.5°	10928.6	4582.4	2688.6	2362.4	2319.6	2482.6	2762.2	2949.2	2970.0	2887.8	2641.1
-10°	6987.2	3495.8	2540.8	2327.7	2346.3	2553.6	2813.3	2959.1	2956.9	2868.1	2523.8
-12.5°	4843.4	2774.6	2395.0	2284.6	2379.9	2643.1	2878.0	2971.6	2940.1	2843.1	2374.5
-15°	3119.8	2537.4	2338.7	2328.2	2478.2	2738.4	2940.3	2986.7	2920.0	2813.0	2194.3
-17.5°	2630.3	2372.6	2292.4	2377.9	2611.6	2835.3	2959.2	2962.6	2886.2	2693.7	1975.3
-20°	2384.1	2296.6	2351.9	2516.4	2746.5	2937.9	2980.4	2934.1	2843.3	2435.6	1664.2



REPORT NUMBER: P413428 (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°
-22.5°	2296.6	2343.2	2467.9	2691.2	2874.6	2963.0	2963.0	2895.8	2795.7	2148.9	1317.8
-25°	2351.9	2467.9	2667.8	2839.5	2952.4	2982.8	2926.2	2840.0	2471.8	1781.0	987.6
-27.5°	2516.4	2691.2	2839.5	2948.8	2983.3	2940.7	2870.2	2707.7	2108.3	1339.1	923.7
-30°	2746.5	2874.6	2952.4	2983.3	2945.5	2885.5	2802.3	2293.7	1631.5	976.5	855.3
-32.5°	2937.9	2963.0	2982.8	2940.7	2885.5	2809.7	2387.4	1809.4	1096.9	898.7	826.0
-35°	2980.4	2963.0	2926.2	2870.2	2802.3	2387.4	1869.1	1213.2	925.1	833.8	808.5
-37.5°	2934.1	2895.8	2840.0	2707.7	2293.7	1809.4	1213.2	934.0	837.7	814.3	793.7
-40°	2843.3	2795.7	2471.8	2108.3	1631.5	1096.9	925.1	837.7	816.2	796.4	779.9
-42.5°	2435.6	2148.9	1781.0	1339.1	976.5	898.7	833.8	814.3	796.4	781.2	741.4
-45°	1664.2	1317.8	987.6	923.7	855.3	826.0	808.5	793.7	779.9	741.4	694.8
-47.5°	959.4	909.6	854.9	829.0	814.4	800.0	788.3	773.9	733.1	688.7	624.0
-50°	833.9	823.4	811.9	800.3	790.6	780.2	752.9	716.5	670.6	612.0	550.2
-52.5°	801.7	794.7	787.0	778.7	754.4	724.1	690.5	640.6	588.3	531.7	472.1
-55°	778.0	760.4	738.1	713.9	684.4	643.1	599.3	552.0	501.0	447.8	389.0
-57.5°	705.4	683.3	653.3	620.5	585.1	545.8	503.4	458.6	409.4	357.1	305.8
-60°	599.3	574.5	545.8	514.3	480.4	443.8	402.5	358.9	313.0	281.0	248.0
-62.5°	483.2	459.7	432.8	402.5	369.7	334.5	302.1	275.9	248.4	219.4	189.0
-65°	360.4	337.9	313.0	294.7	275.2	254.3	232.0	208.2	183.0	156.5	129.2
-67.5°	261.2	248.0	233.3	217.3	199.7	180.8	160.6	139.3	117.8	95.6	72.5
-70°	177.9	166.1	153.1	138.8	123.9	108.3	91.7	74.0	55.3	45.1	39.0
-72.5°	96.5	87.0	76.4	64.8	52.2	45.9	41.6	37.0	32.2	27.1	24.7
-75°	39.8	37.3	34.7	31.7	28.5	25.1	24.8	26.1	27.4	28.8	30.3
-77.5°	26.4	27.1	27.8	28.6	29.4	30.3	31.3	31.1	28.2	25.1	21.9
-80°	26.9	25.5	24.1	22.4	20.7	18.7	16.7	14.5	12.2	11.6	13.0
-82.5°	13.0	13.5	14.1	14.7	15.4	16.2	17.0	17.8	18.8	19.7	20.7
-85°	20.2	19.7	19.2	18.6	18.0	17.3	16.6	15.8	15.0	14.1	13.2
-87.5°	6.6	6.5	6.3	6.2	6.1	5.9	5.7	5.6	5.4	5.2	4.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P413428 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	4.7	4.5	4.3	4.0	3.8	3.5	3.2	3.0	2.7	2.4	2.1
85°	12.3	11.3	10.2	9.2	8.1	7.0	6.5	5.9	5.4	4.8	4.2
82.5°	21.7	20.9	19.3	17.8	16.1	14.5	12.7	11.0	9.2	7.4	6.3
80°	14.4	15.8	17.3	18.8	20.4	21.9	19.6	17.3	14.9	12.4	10.0
77.5°	18.6	15.2	11.6	12.6	14.6	16.7	18.8	20.9	20.5	17.5	14.4
75°	31.8	28.4	24.1	19.7	15.1	11.3	13.8	16.4	19.0	21.7	18.8
72.5°	26.5	28.3	30.2	31.4	26.1	20.6	15.0	11.9	14.9	18.0	21.2
70°	32.6	26.0	25.5	27.8	30.1	30.7	24.3	17.8	11.2	14.4	18.0
67.5°	48.8	41.4	33.7	25.8	26.0	28.7	31.4	26.2	18.7	11.2	14.9
65°	102.4	74.6	48.1	39.3	30.2	25.0	28.0	31.1	26.2	17.8	11.9
62.5°	157.3	125.1	93.5	61.0	42.6	32.5	24.6	28.0	31.4	24.3	15.0
60°	213.6	177.9	140.9	105.0	68.6	43.8	32.5	25.0	28.7	30.7	20.6
57.5°	268.6	230.2	190.3	149.2	108.8	68.6	42.6	30.2	26.0	30.1	26.1
55°	328.1	281.1	238.4	194.4	149.2	105.0	61.0	39.3	25.8	27.8	31.4
52.5°	408.3	340.8	285.3	238.4	190.3	140.9	93.5	48.1	33.7	25.5	30.2
50°	484.4	414.7	340.8	281.1	230.2	177.9	125.1	74.6	41.4	26.0	28.3
47.5°	556.4	484.4	408.3	328.1	268.6	213.6	157.3	102.4	48.8	32.6	26.5
45°	624.0	550.2	472.1	389.0	305.8	248.0	189.0	129.2	72.5	39.0	24.7
42.5°	688.7	612.0	531.7	447.8	357.1	281.0	219.4	156.5	95.6	45.1	27.1
40°	733.1	670.6	588.3	501.0	409.4	313.0	248.4	183.0	117.8	55.3	32.2
37.5°	773.9	716.5	640.6	552.0	458.6	358.9	275.9	208.2	139.3	74.0	37.0
35°	788.3	752.9	690.5	599.3	503.4	402.5	302.1	232.0	160.6	91.7	41.6
32.5°	800.0	780.2	724.1	643.1	545.8	443.8	334.5	254.3	180.8	108.3	45.9
30°	814.4	790.6	754.4	684.4	585.1	480.4	369.7	275.2	199.7	123.9	52.2
27.5°	829.0	800.3	778.7	713.9	620.5	514.3	402.5	294.7	217.3	138.8	64.8
25°	854.9	811.9	787.0	738.1	653.3	545.8	432.8	313.0	233.3	153.1	76.4
22.5°	909.6	823.4	794.7	760.4	683.3	574.5	459.7	337.9	248.0	166.1	87.0
20°	959.4	833.9	801.7	778.0	705.4	599.3	483.2	360.4	261.2	177.9	96.5
17.5°	1043.4	858.3	809.9	783.7	721.9	621.3	504.2	380.5	272.9	188.3	105.0
15°	1295.9	894.4	817.4	788.7	736.3	640.6	522.5	397.9	283.2	197.4	112.4
12.5°	1512.2	925.3	823.9	793.0	748.6	657.0	538.1	412.8	291.9	205.2	118.6
10°	1691.1	950.8	829.2	796.5	758.7	670.6	550.9	425.0	299.1	211.5	123.8
7.5°	1831.5	970.8	833.4	799.2	766.6	681.1	561.0	434.6	304.7	216.5	127.8
5°	1932.4	985.2	836.4	801.2	772.2	688.7	568.1	441.4	308.7	220.0	130.7
2.5°	1993.2	993.8	838.2	802.4	775.7	693.3	572.5	445.5	311.1	222.2	132.4
0°	2013.5	996.7	838.8	802.8	776.8	694.8	573.9	446.9	311.9	222.9	133.0
-2.5°	1993.2	993.8	838.2	802.4	775.7	693.3	572.5	445.5	311.1	222.2	132.4
-5°	1932.4	985.2	836.4	801.2	772.2	688.7	568.1	441.4	308.7	220.0	130.7
-7.5°	1831.5	970.8	833.4	799.2	766.6	681.1	561.0	434.6	304.7	216.5	127.8
-10°	1691.1	950.8	829.2	796.5	758.7	670.6	550.9	425.0	299.1	211.5	123.8
-12.5°	1512.2	925.3	823.9	793.0	748.6	657.0	538.1	412.8	291.9	205.2	118.6
-15°	1295.9	894.4	817.4	788.7	736.3	640.6	522.5	397.9	283.2	197.4	112.4
-17.5°	1043.4	858.3	809.9	783.7	721.9	621.3	504.2	380.5	272.9	188.3	105.0
-20°	959.4	833.9	801.7	778.0	705.4	599.3	483.2	360.4	261.2	177.9	96.5



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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°	909.6	823.4	794.7	760.4	683.3	574.5	459.7	337.9	248.0	166.1	87.0
-25°	854.9	811.9	787.0	738.1	653.3	545.8	432.8	313.0	233.3	153.1	76.4
-27.5°	829.0	800.3	778.7	713.9	620.5	514.3	402.5	294.7	217.3	138.8	64.8
-30°	814.4	790.6	754.4	684.4	585.1	480.4	369.7	275.2	199.7	123.9	52.2
-32.5°	800.0	780.2	724.1	643.1	545.8	443.8	334.5	254.3	180.8	108.3	45.9
-35°	788.3	752.9	690.5	599.3	503.4	402.5	302.1	232.0	160.6	91.7	41.6
-37.5°	773.9	716.5	640.6	552.0	458.6	358.9	275.9	208.2	139.3	74.0	37.0
-40°	733.1	670.6	588.3	501.0	409.4	313.0	248.4	183.0	117.8	55.3	32.2
-42.5°	688.7	612.0	531.7	447.8	357.1	281.0	219.4	156.5	95.6	45.1	27.1
-45°	624.0	550.2	472.1	389.0	305.8	248.0	189.0	129.2	72.5	39.0	24.7
-47.5°	556.4	484.4	408.3	328.1	268.6	213.6	157.3	102.4	48.8	32.6	26.5
-50°	484.4	414.7	340.8	281.1	230.2	177.9	125.1	74.6	41.4	26.0	28.3
-52.5°	408.3	340.8	285.3	238.4	190.3	140.9	93.5	48.1	33.7	25.5	30.2
-55°	328.1	281.1	238.4	194.4	149.2	105.0	61.0	39.3	25.8	27.8	31.4
-57.5°	268.6	230.2	190.3	149.2	108.8	68.6	42.6	30.2	26.0	30.1	26.1
-60°	213.6	177.9	140.9	105.0	68.6	43.8	32.5	25.0	28.7	30.7	20.6
-62.5°	157.3	125.1	93.5	61.0	42.6	32.5	24.6	28.0	31.4	24.3	15.0
-65°	102.4	74.6	48.1	39.3	30.2	25.0	28.0	31.1	26.2	17.8	11.9
-67.5°	48.8	41.4	33.7	25.8	26.0	28.7	31.4	26.2	18.7	11.2	14.9
-70°	32.6	26.0	25.5	27.8	30.1	30.7	24.3	17.8	11.2	14.4	18.0
-72.5°	26.5	28.3	30.2	31.4	26.1	20.6	15.0	11.9	14.9	18.0	21.2
-75°	31.8	28.4	24.1	19.7	15.1	11.3	13.8	16.4	19.0	21.7	18.8
-77.5°	18.6	15.2	11.6	12.6	14.6	16.7	18.8	20.9	20.5	17.5	14.4
-80°	14.4	15.8	17.3	18.8	20.4	21.9	19.6	17.3	14.9	12.4	10.0
-82.5°	21.7	20.9	19.3	17.8	16.1	14.5	12.7	11.0	9.2	7.4	6.3
-85°	12.3	11.3	10.2	9.2	8.1	7.0	6.5	5.9	5.4	4.8	4.2
-87.5°	4.7	4.5	4.3	4.0	3.8	3.5	3.2	3.0	2.7	2.4	2.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	1.8	1.5	1.2	0.9	0.6	0.3	0.0
85°	3.6	3.0	2.4	1.8	1.2	0.6	0.0
82.5°	5.4	4.5	3.6	2.7	1.8	0.9	0.0
80°	7.5	6.0	4.8	3.6	2.4	1.2	0.0
77.5°	11.3	8.1	6.0	4.5	3.0	1.5	0.0
75°	15.0	11.3	7.5	5.4	3.6	1.8	0.0
72.5°	18.8	14.4	10.0	6.3	4.2	2.1	0.0
70°	21.7	17.5	12.4	7.4	4.8	2.4	0.0
67.5°	19.0	20.5	14.9	9.2	5.4	2.7	0.0
65°	16.4	20.9	17.3	11.0	5.9	3.0	0.0
62.5°	13.8	18.8	19.6	12.7	6.5	3.2	0.0
60°	11.3	16.7	21.9	14.5	7.0	3.5	0.0
57.5°	15.1	14.6	20.4	16.1	8.1	3.8	0.0
55°	19.7	12.6	18.8	17.8	9.2	4.0	0.0
52.5°	24.1	11.6	17.3	19.3	10.2	4.3	0.0
50°	28.4	15.2	15.8	20.9	11.3	4.5	0.0
47.5°	31.8	18.6	14.4	21.7	12.3	4.7	0.0
45°	30.3	21.9	13.0	20.7	13.2	4.9	0.0
42.5°	28.8	25.1	11.6	19.7	14.1	5.2	0.0
40°	27.4	28.2	12.2	18.8	15.0	5.4	0.0
37.5°	26.1	31.1	14.5	17.8	15.8	5.6	0.0
35°	24.8	31.3	16.7	17.0	16.6	5.7	0.0
32.5°	25.1	30.3	18.7	16.2	17.3	5.9	0.0
30°	28.5	29.4	20.7	15.4	18.0	6.1	0.0
27.5°	31.7	28.6	22.4	14.7	18.6	6.2	0.0
25°	34.7	27.8	24.1	14.1	19.2	6.3	0.0
22.5°	37.3	27.1	25.5	13.5	19.7	6.5	0.0
20°	39.8	26.4	26.9	13.0	20.2	6.6	0.0
17.5°	41.9	25.9	28.1	12.5	20.6	6.7	0.0
15°	43.8	25.4	29.1	12.1	21.0	6.8	0.0
12.5°	45.4	25.0	30.0	11.8	21.3	6.8	0.0
10°	46.7	24.6	30.7	11.5	21.5	6.9	0.0
7.5°	47.7	24.3	31.3	11.3	21.7	6.9	0.0
5°	48.4	24.2	31.7	11.1	21.9	7.0	0.0
2.5°	48.9	24.0	31.9	11.0	22.0	7.0	0.0
0°	49.0	24.0	32.0	11.0	22.0	7.0	0.0
-2.5°	48.9	24.0	31.9	11.0	22.0	7.0	0.0
-5°	48.4	24.2	31.7	11.1	21.9	7.0	0.0
-7.5°	47.7	24.3	31.3	11.3	21.7	6.9	0.0
-10°	46.7	24.6	30.7	11.5	21.5	6.9	0.0
-12.5°	45.4	25.0	30.0	11.8	21.3	6.8	0.0
-15°	43.8	25.4	29.1	12.1	21.0	6.8	0.0
-17.5°	41.9	25.9	28.1	12.5	20.6	6.7	0.0
-20°	39.8	26.4	26.9	13.0	20.2	6.6	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	37.3	27.1	25.5	13.5	19.7	6.5	0.0
-25°	34.7	27.8	24.1	14.1	19.2	6.3	0.0
-27.5°	31.7	28.6	22.4	14.7	18.6	6.2	0.0
-30°	28.5	29.4	20.7	15.4	18.0	6.1	0.0
-32.5°	25.1	30.3	18.7	16.2	17.3	5.9	0.0
-35°	24.8	31.3	16.7	17.0	16.6	5.7	0.0
-37.5°	26.1	31.1	14.5	17.8	15.8	5.6	0.0
-40°	27.4	28.2	12.2	18.8	15.0	5.4	0.0
-42.5°	28.8	25.1	11.6	19.7	14.1	5.2	0.0
-45°	30.3	21.9	13.0	20.7	13.2	4.9	0.0
-47.5°	31.8	18.6	14.4	21.7	12.3	4.7	0.0
-50°	28.4	15.2	15.8	20.9	11.3	4.5	0.0
-52.5°	24.1	11.6	17.3	19.3	10.2	4.3	0.0
-55°	19.7	12.6	18.8	17.8	9.2	4.0	0.0
-57.5°	15.1	14.6	20.4	16.1	8.1	3.8	0.0
-60°	11.3	16.7	21.9	14.5	7.0	3.5	0.0
-62.5°	13.8	18.8	19.6	12.7	6.5	3.2	0.0
-65°	16.4	20.9	17.3	11.0	5.9	3.0	0.0
-67.5°	19.0	20.5	14.9	9.2	5.4	2.7	0.0
-70°	21.7	17.5	12.4	7.4	4.8	2.4	0.0
-72.5°	18.8	14.4	10.0	6.3	4.2	2.1	0.0
-75°	15.0	11.3	7.5	5.4	3.6	1.8	0.0
-77.5°	11.3	8.1	6.0	4.5	3.0	1.5	0.0
-80°	7.5	6.0	4.8	3.6	2.4	1.2	0.0
-82.5°	5.4	4.5	3.6	2.7	1.8	0.9	0.0
-85°	3.6	3.0	2.4	1.8	1.2	0.6	0.0
-87.5°	1.8	1.5	1.2	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)