

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: P413572 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-08-0640L-40-70-1S-VHE**

Issue Date: 10/30/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P413572 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/30/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-08-0640L-40-70-1S-VHE  
Description: EPHEBUS LUMASPORT 8 LUMINAIRE  
(8) 4000K, 70 CRI LEDS AND 1S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

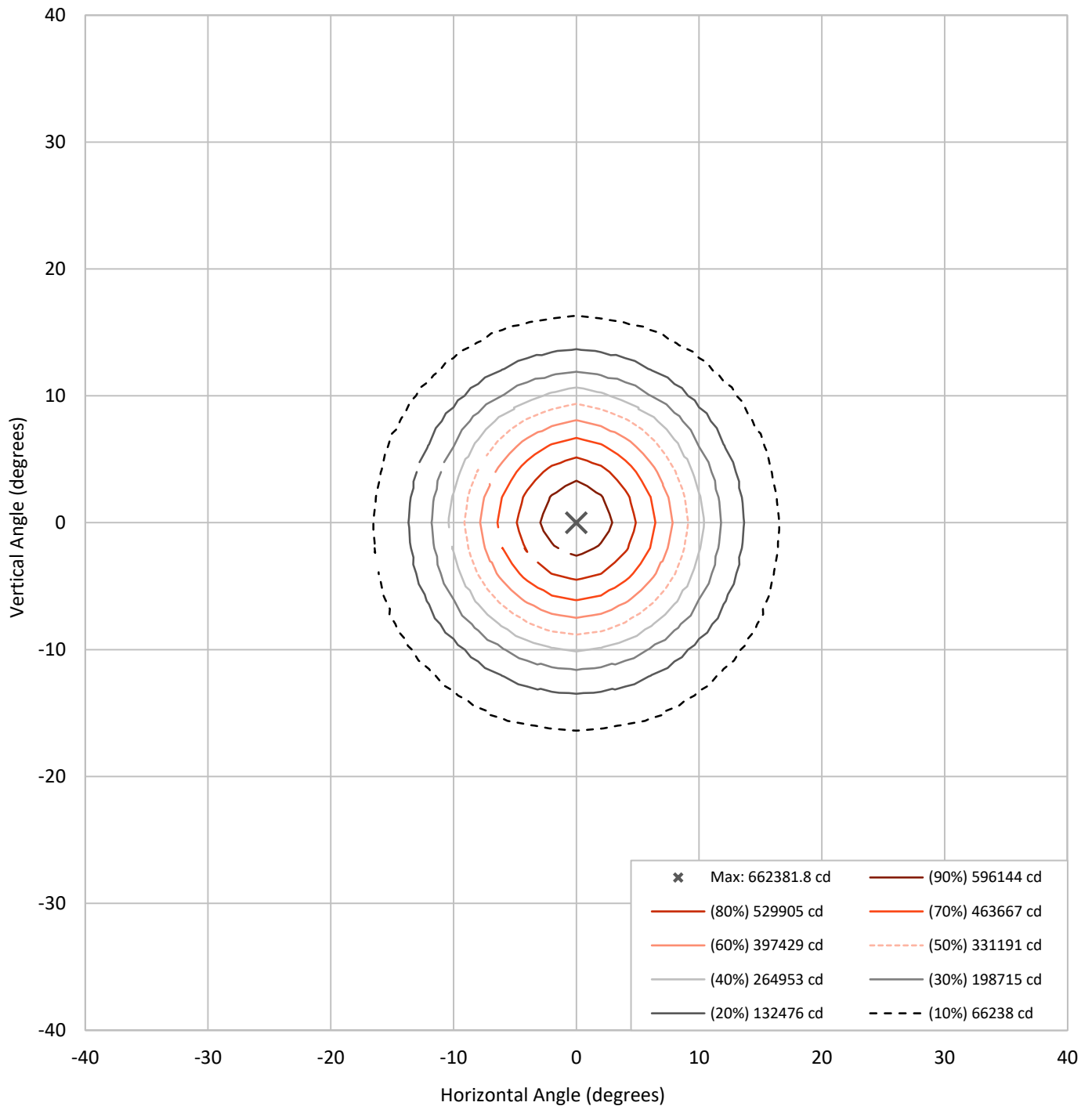
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	79753.6 lumens	Max Intensity:	662381.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	116.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	18.2°H x 18.2°V	Field Angle (10%):	33°H x 32.6°V
Beam Lumens:	36746.7 lumens	Field Lumens:	65017.9 lumens
Beam Efficiency:	46.1%	Field Efficiency:	81.5%
Input Watts (W):	686		
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-08-0640L-40-70-1S-VHE

### Iso-Candela Plot





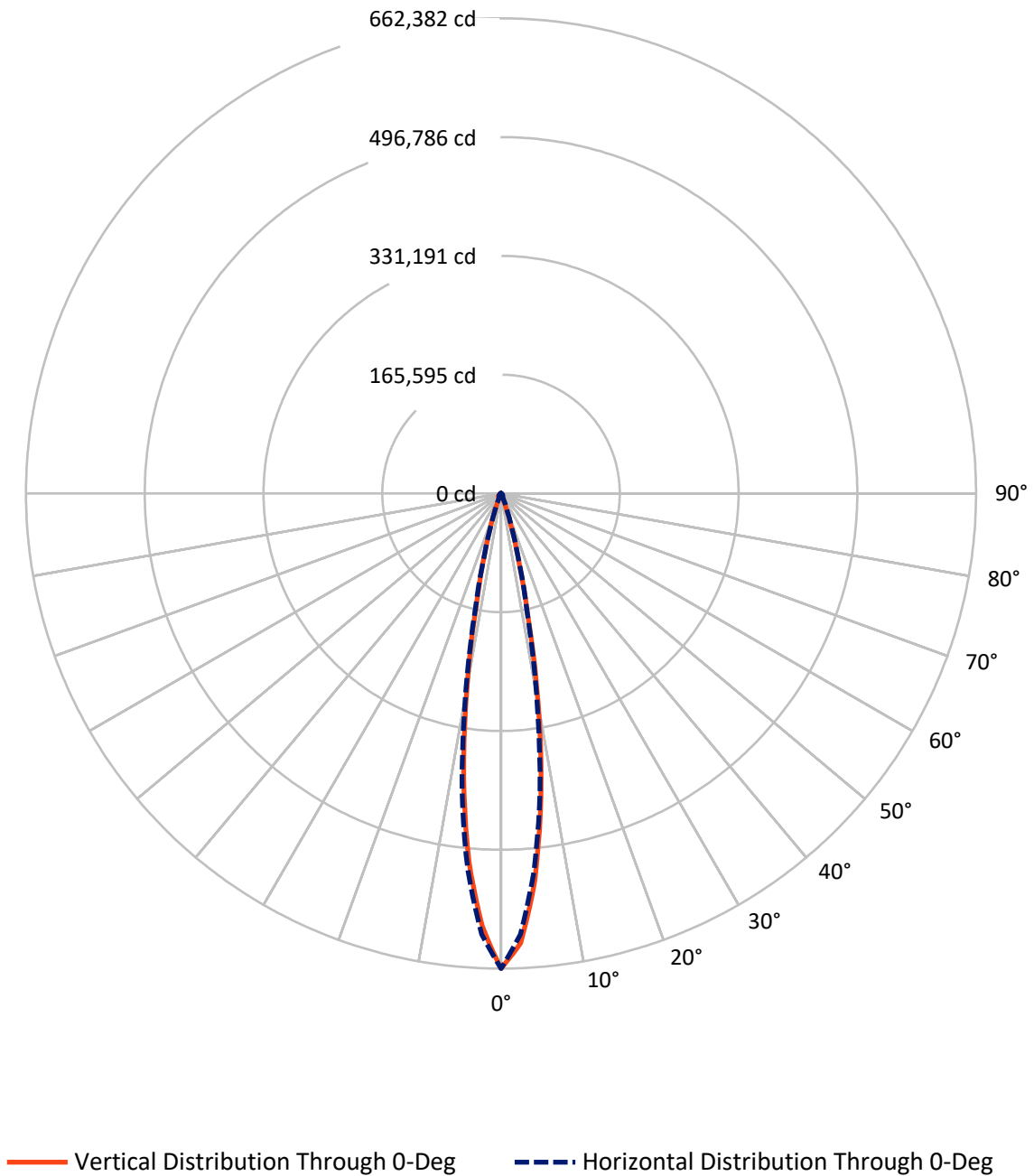
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### Lumen Table

90	0.2	0.6	1.1	1.6	1.9	1.6	1.1	0.6	0.2										
80	0.2	0.6	1.1	1.6	1.9	1.6	1.1	0.6	0.2										
70	0.3	0.2	0.2	0.6	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.6	0.2	0.2	0.3			
60		0.4	0.8	1.0	0.9	0.8	1.0	1.1	1.1	1.0	0.8	0.9	1.0	0.8	0.4				
50	0.7	1.0	2.6	5.0	8.0	14.0	22.1	24.9	24.9	22.1	14.0	8.0	5.0	2.6	1.0	0.7			
40		2.4	7.8	13.9	30.3	51.9	57.2	59.2	59.2	57.2	51.9	30.3	13.9	7.8	2.4				
30	1.6	4.2	12.3	26.8	67.7	69.2	84.9	135.8	135.8	84.9	69.2	67.7	26.8	12.3	4.2	1.6			
20		5.7	15.5	49.1	87.1	104.2	636.3	2605.6	2605.6	636.3	104.2	87.1	49.1	15.5	5.7				
10	2.2	6.8	17.8	63.4	93.5	192.8	2605.7	12026.8	12026.8	2605.7	192.8	93.5	63.4	17.8	6.8	2.2			
0		7.4	19.5	66.3	102.9	208.5	2675.4	11740.7	11740.7	2675.4	208.5	102.9	66.3	19.5	7.4				
-10	2.3	7.4	20.4	62.5	114.7	142.0	725.5	2645.0	2645.0	725.5	142.0	114.7	62.5	20.4	7.4	2.3			
-20		6.7	20.3	45.4	116.0	138.0	149.5	231.0	231.0	149.5	138.0	116.0	45.4	20.3	6.7				
-30	1.9	5.6	18.1	34.3	79.0	142.9	156.8	154.2	154.2	156.8	142.9	79.0	34.3	18.1	5.6	1.9			
-40		4.1	13.7	29.0	44.3	69.4	110.9	141.4	141.4	110.9	69.4	44.3	29.0	13.7	4.1				
-50	1.5	2.6	8.4	19.1	32.6	43.0	50.1	54.4	54.4	50.1	43.0	32.6	19.1	8.4	2.6	1.5			
-60		1.8	4.2	9.1	16.1	22.8	28.9	32.5	32.5	28.9	22.8	16.1	9.1	4.2	1.8				
-70	1.1	6.7	16.0	26.2	31.6	26.2	16.0	6.7	1.1							1.1			
-80		1.1	6.7	16.0	26.2	31.6	26.2	16.0	6.7	1.1									
-90	1.1	6.7	16.0	26.2	31.6	26.2	16.0	6.7	1.1										
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

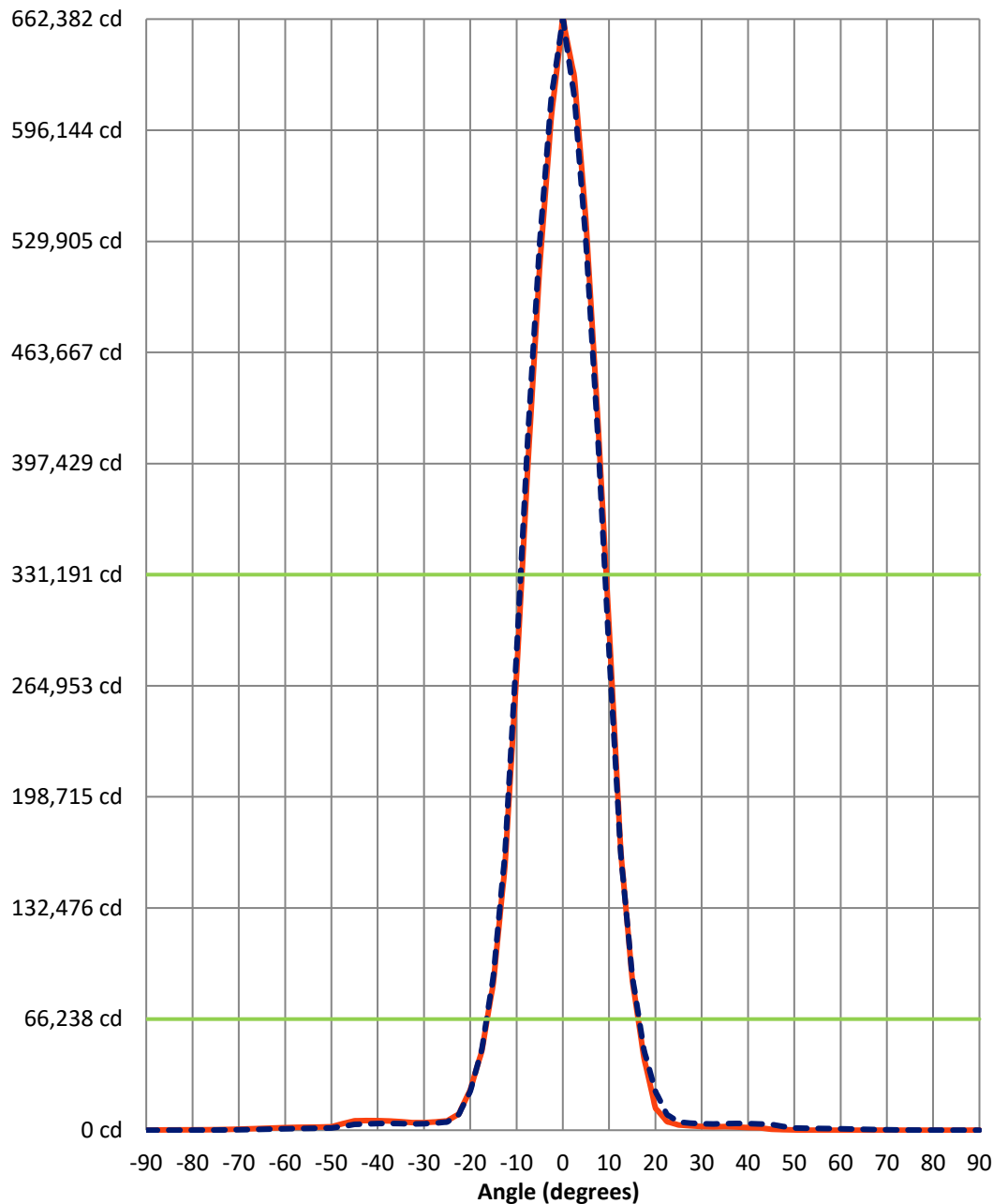
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 18.2°  
 V Angle: 18.2°  
 Lumens: 36746.7  
 Efficiency: 46.1%

**Field:**  
 H Angle: 33°  
 V Angle: 32.6°  
 Lumens: 65017.9  
 Efficiency: 81.5%

**Spill:**  
 Lumens: 14735.6  
 Efficiency: 18.5%

- 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°	8.9	14.3	19.8	28.2	36.6	43.5	50.5	56.9	63.3	68.3	73.2
87.5°	8.9	7.1	5.2	4.8	4.5	4.5	4.5	4.4	4.3	3.9	3.4
85°	8.9	7.3	5.4	5.2	5.0	5.0	5.0	4.8	4.6	4.2	3.9
82.5°	8.9	7.4	5.7	5.6	5.5	5.6	5.5	5.3	5.0	4.8	4.5
80°	8.9	7.6	6.0	6.0	6.0	6.1	6.0	5.8	5.7	5.5	5.4
77.5°	8.9	7.8	6.3	6.4	6.5	6.6	6.6	6.5	6.4	6.3	6.1
75°	8.9	8.0	6.6	6.8	7.1	7.2	7.1	7.1	7.1	7.0	6.6
72.5°	8.9	8.2	6.9	7.2	7.6	7.8	7.7	7.8	7.9	7.7	7.2
70°	8.9	8.4	7.3	7.6	8.2	8.4	8.4	8.8	8.8	8.4	8.5
67.5°	8.9	8.6	7.6	8.2	8.9	9.0	9.5	9.9	9.8	9.9	10.0
65°	8.9	8.8	8.0	8.8	9.5	9.9	10.8	11.0	11.5	11.5	11.6
62.5°	8.9	9.0	8.3	9.5	10.2	11.1	12.0	12.6	13.2	13.2	13.7
60°	8.9	9.2	8.7	10.1	10.9	12.3	13.3	14.4	15.1	15.7	15.9
57.5°	8.9	9.4	9.3	10.8	12.1	13.5	15.1	16.3	17.6	18.4	19.9
55°	8.9	9.7	9.9	11.5	13.2	14.7	17.0	18.3	20.4	21.9	25.1
52.5°	8.9	9.9	10.6	12.2	14.4	16.1	19.1	21.2	23.4	27.9	30.6
50°	8.9	10.1	11.2	12.9	15.6	18.0	21.1	24.2	27.4	34.5	41.6
47.5°	8.9	10.3	11.8	13.6	16.8	20.0	23.4	27.4	34.2	41.7	54.8
45°	8.9	10.5	12.5	14.6	18.0	22.1	26.2	30.6	41.4	55.1	69.3
42.5°	8.9	10.7	13.1	15.5	19.2	24.1	29.0	35.9	49.0	69.4	92.3
40°	8.9	11.0	13.8	16.6	20.7	26.2	32.0	42.7	58.6	84.6	118.3
37.5°	8.9	11.2	14.4	17.7	22.3	28.4	35.2	49.6	72.0	102.4	146.4
35°	8.9	11.4	15.1	18.9	23.9	30.8	38.5	56.7	85.6	126.5	178.7
32.5°	8.9	11.6	15.7	20.1	25.6	33.4	42.6	64.0	99.3	151.0	212.1
30°	8.9	11.8	16.3	21.2	27.2	36.0	48.6	72.4	113.1	175.7	244.0
27.5°	8.9	12.0	17.0	22.4	29.1	38.6	54.4	83.5	129.2	200.5	274.2
25°	8.9	12.2	17.6	23.6	31.0	41.2	60.2	94.5	148.4	225.6	303.0
22.5°	8.9	12.4	18.2	24.7	32.8	43.8	65.8	105.1	166.3	246.8	335.5
20°	8.9	12.6	18.8	25.8	34.6	46.5	71.2	115.4	182.9	266.6	364.1
17.5°	8.9	12.8	19.4	26.9	36.4	49.2	76.2	125.2	198.3	285.0	391.0
15°	8.9	13.0	19.9	28.0	38.1	51.7	80.9	133.9	212.3	301.9	416.3
12.5°	8.9	13.1	20.5	29.0	39.7	54.2	85.2	141.1	224.8	317.3	439.7
10°	8.9	13.3	21.0	30.0	41.2	56.5	89.1	147.4	235.8	332.5	461.5
7.5°	8.9	13.5	21.5	31.0	42.7	58.6	92.7	152.9	245.8	346.6	482.0
5°	8.9	13.6	22.0	31.9	44.0	60.7	95.8	157.6	254.4	359.2	499.9
2.5°	8.9	13.8	22.4	32.8	45.3	62.6	98.6	161.4	261.5	370.0	515.1
0°	8.9	13.9	22.8	33.6	46.5	64.3	100.9	164.3	267.2	379.0	527.4
-2.5°	8.9	14.2	23.5	34.7	48.0	66.2	103.5	168.2	272.7	387.4	537.2
-5°	8.9	14.5	24.2	35.7	49.4	67.9	105.6	171.2	276.4	393.6	543.9
-7.5°	8.9	14.8	24.8	36.6	50.7	69.4	107.2	173.2	278.4	397.5	547.4
-10°	8.9	15.1	25.4	37.5	51.9	70.8	108.4	174.2	278.6	399.0	547.8
-12.5°	8.9	15.4	26.0	38.3	53.0	71.9	109.1	174.2	276.8	398.1	546.3
-15°	8.9	15.6	26.5	39.1	54.0	72.9	109.3	173.0	273.7	395.5	541.9
-17.5°	8.9	15.9	27.0	39.7	54.8	73.7	108.9	171.4	269.4	390.2	533.9
-20°	8.9	16.1	27.4	40.3	55.5	74.3	108.2	169.0	263.2	382.1	522.3



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 CATALOG NUMBER: EPH-08-0640L-40-70-1S-VHE

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	8.9	16.3	27.8	40.9	56.1	74.7	107.3	165.4	255.1	371.2	507.1
-25°	8.9	16.5	28.1	41.3	56.5	75.1	105.8	160.3	245.2	357.4	488.8
-27.5°	8.9	16.7	28.3	41.7	56.8	75.4	103.6	153.8	233.4	342.8	472.0
-30°	8.9	16.8	28.6	41.9	57.0	75.5	100.8	145.8	223.3	328.3	452.0
-32.5°	8.9	16.9	28.7	42.1	57.3	75.4	97.3	140.8	213.6	311.6	428.7
-35°	8.9	17.0	28.8	42.3	57.5	75.2	95.8	136.3	201.9	292.6	402.1
-37.5°	8.9	17.1	28.9	42.3	57.5	74.9	95.2	131.1	188.3	271.4	377.4
-40°	8.9	17.2	28.8	42.3	57.4	74.7	94.4	125.1	172.7	252.4	351.1
-42.5°	8.9	17.2	28.8	42.2	57.3	74.4	93.4	118.4	161.9	232.4	320.9
-45°	8.9	17.3	28.6	42.1	57.1	73.9	92.1	113.4	153.3	210.5	288.3
-47.5°	8.9	17.3	28.5	41.9	56.9	73.3	90.5	111.5	143.8	187.1	261.7
-50°	8.9	17.2	28.2	41.6	56.4	72.5	89.3	109.1	133.1	174.8	233.2
-52.5°	8.9	17.2	27.9	41.3	55.9	71.5	87.9	106.4	127.2	161.1	204.1
-55°	8.9	17.1	27.6	40.8	55.2	70.4	86.3	103.3	123.2	146.2	186.1
-57.5°	8.9	17.1	27.2	40.3	54.3	69.2	84.4	101.0	118.8	138.6	166.9
-60°	8.9	17.0	26.7	39.6	53.4	67.8	82.4	98.3	114.3	133.0	150.9
-62.5°	8.9	16.8	26.4	38.9	52.4	66.2	80.4	95.3	110.8	126.8	143.7
-65°	8.9	16.7	26.0	38.1	51.2	64.5	78.3	92.3	107.0	121.7	136.0
-67.5°	8.9	16.5	25.6	37.2	50.0	62.7	76.0	89.3	103.0	116.8	129.7
-70°	8.9	16.4	25.1	36.3	48.7	60.8	73.5	86.2	99.1	111.5	123.7
-72.5°	8.9	16.2	24.5	35.4	47.2	58.7	70.7	82.8	94.9	106.4	117.6
-75°	8.9	15.9	24.0	34.6	45.7	56.4	67.7	79.1	90.5	101.1	111.5
-77.5°	8.9	15.7	23.4	33.7	44.3	54.1	64.5	75.1	85.9	95.5	105.2
-80°	8.9	15.5	22.7	32.7	42.9	52.0	61.2	71.1	81.1	89.5	98.1
-82.5°	8.9	15.2	22.0	31.7	41.5	50.0	58.6	67.2	76.1	83.3	90.7
-85°	8.9	14.9	21.3	30.6	39.9	47.9	56.0	63.9	71.9	78.0	83.9
-87.5°	8.9	14.6	20.6	29.4	38.3	45.8	53.3	60.4	67.7	73.1	78.6
-90°	8.9	6.9	4.9	4.5	4.0	4.0	4.0	4.0	4.0	3.5	3.0





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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	77.7	82.1	85.6	89.1	93.1	97.0	101.0	104.9	108.9	112.8	116.3
87.5°	3.5	3.5	3.3	3.0	3.0	3.0	2.5	2.0	2.0	2.0	2.0
85°	3.9	4.0	3.6	3.2	3.1	3.0	2.7	2.4	2.5	2.5	2.6
82.5°	4.6	4.5	4.1	3.8	3.5	3.0	3.0	3.1	3.2	3.3	3.2
80°	5.2	5.0	4.7	4.3	4.0	3.6	3.7	3.8	3.9	4.1	3.7
77.5°	5.8	5.5	5.2	4.9	4.6	4.5	4.6	4.5	4.6	4.7	4.5
75°	6.3	6.0	5.8	5.5	5.4	5.6	5.6	5.3	5.3	5.5	5.3
72.5°	7.1	6.8	6.4	6.1	6.2	6.1	5.8	5.8	7.0	8.8	10.2
70°	8.3	7.7	7.4	7.5	7.3	7.2	8.7	11.0	13.4	16.1	19.2
67.5°	9.7	9.3	9.0	9.1	9.8	11.4	13.9	19.3	24.7	28.6	31.3
65°	11.2	11.0	11.1	12.0	12.8	17.8	24.4	30.8	36.0	38.5	40.0
62.5°	12.9	13.9	14.1	16.0	20.1	26.0	33.8	40.2	45.0	44.5	42.4
60°	16.7	17.5	19.7	23.4	28.0	34.1	42.4	45.3	45.7	45.6	40.3
57.5°	21.3	24.0	28.3	31.8	37.7	41.0	43.2	44.6	45.0	42.0	35.7
55°	28.2	33.4	39.1	42.9	46.8	43.1	44.2	47.0	45.0	40.5	32.8
52.5°	39.0	45.0	53.7	56.8	55.2	52.5	52.8	54.0	49.6	44.6	39.1
50°	50.5	62.7	70.5	74.3	69.3	70.0	67.6	68.2	67.8	65.8	67.3
47.5°	68.1	82.5	93.4	98.4	94.1	102.7	100.9	117.4	116.1	145.5	149.2
45°	88.9	110.2	123.0	134.1	143.8	155.9	184.8	197.1	245.2	272.4	307.3
42.5°	114.2	143.9	167.3	176.8	227.7	252.5	294.0	342.2	384.5	420.5	437.6
40°	150.7	181.9	220.4	272.8	328.1	369.6	426.5	476.8	505.3	522.9	524.8
37.5°	190.4	237.1	287.8	371.0	430.8	480.8	550.0	570.4	592.9	601.5	630.0
35°	231.9	295.0	378.1	460.2	519.8	582.6	621.2	647.7	667.4	699.2	809.9
32.5°	280.9	354.3	455.6	539.4	599.7	660.7	682.6	715.9	755.7	837.2	1147.5
30°	330.1	419.5	521.0	608.4	670.1	714.1	745.9	788.1	845.0	1154.3	1697.0
27.5°	370.9	477.3	577.2	666.2	731.0	770.0	810.2	870.7	1077.8	1541.3	2349.8
25°	409.0	520.4	632.6	723.1	783.1	826.8	875.8	955.1	1362.1	2173.6	2762.8
22.5°	445.0	561.2	686.3	780.7	831.8	880.7	952.7	1217.2	1829.9	2821.9	3109.8
20°	479.3	605.1	736.7	829.4	875.8	934.4	1025.6	1509.7	2444.6	3119.9	3323.1
17.5°	514.0	649.3	781.6	863.8	914.6	990.3	1121.9	1770.8	2967.1	3355.4	3494.1
15°	547.7	691.7	820.1	894.9	954.1	1047.7	1343.9	2166.9	3269.7	3554.5	3680.6
12.5°	580.0	729.3	850.7	920.8	993.4	1103.5	1553.4	2539.3	3427.8	3712.3	3787.6
10°	610.3	762.0	877.7	946.3	1031.6	1155.3	1756.4	2846.6	3578.4	3834.0	3852.8
7.5°	636.4	788.7	902.2	971.6	1067.7	1203.0	1959.8	3120.4	3679.7	3916.9	3885.1
5°	659.0	809.3	929.0	1001.2	1103.3	1245.1	2132.3	3330.4	3726.4	3955.0	3903.8
2.5°	678.2	825.7	953.4	1030.0	1136.8	1279.9	2215.7	3432.2	3733.3	3970.0	3954.1
0°	693.7	838.1	974.7	1056.8	1166.7	1309.2	2261.1	3480.2	3720.6	3966.0	4033.3
-2.5°	706.5	857.1	998.9	1084.0	1191.5	1335.2	2264.9	3486.1	3747.9	4054.1	4195.1
-5°	715.3	872.0	1019.0	1108.5	1212.9	1355.9	2231.7	3437.8	3781.0	4129.9	4333.8
-7.5°	720.0	882.5	1034.6	1130.0	1231.5	1373.1	2154.1	3376.4	3884.8	4212.3	4446.7
-10°	720.8	890.4	1046.5	1146.3	1246.9	1385.7	2044.6	3238.8	3972.2	4290.8	4514.2
-12.5°	720.1	895.0	1054.5	1161.2	1258.3	1394.3	1933.3	3083.2	4067.7	4386.1	4567.6
-15°	714.6	894.1	1058.7	1175.5	1272.7	1408.5	1799.2	2844.5	4112.8	4437.3	4600.8
-17.5°	704.2	887.4	1055.9	1190.7	1284.5	1416.2	1616.5	2510.0	3916.7	4417.3	4633.5
-20°	688.8	873.2	1044.7	1202.3	1291.5	1420.8	1580.1	2265.4	3448.9	4339.1	4663.4



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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	669.0	855.2	1025.2	1191.4	1303.9	1423.6	1572.6	1980.3	2881.5	4201.7	4637.3
-25°	647.3	829.4	1000.5	1173.6	1312.0	1421.7	1554.4	1718.0	2414.4	3555.9	4464.3
-27.5°	623.9	798.1	976.7	1151.1	1315.0	1415.8	1538.4	1688.8	2063.1	2796.9	4142.9
-30°	596.3	763.3	945.2	1122.3	1291.9	1415.0	1522.8	1642.2	1792.9	2325.4	3315.9
-32.5°	565.5	724.5	903.6	1081.5	1256.6	1412.7	1500.3	1606.0	1734.5	1945.4	2581.7
-35°	534.1	687.3	855.6	1032.7	1213.8	1375.3	1485.1	1571.2	1676.9	1812.0	2136.1
-37.5°	503.3	645.3	801.4	975.3	1152.9	1313.7	1464.0	1546.0	1635.4	1739.6	1886.1
-40°	468.7	598.2	746.9	909.5	1080.8	1242.1	1390.8	1524.7	1599.8	1690.7	1798.5
-42.5°	431.1	554.3	689.5	836.3	1001.5	1162.4	1310.9	1452.7	1574.4	1645.9	1731.7
-45°	392.7	506.4	629.0	766.7	914.6	1073.0	1217.9	1362.3	1499.4	1616.7	1681.8
-47.5°	349.3	455.4	571.4	691.3	827.8	968.5	1114.9	1256.7	1401.5	1527.4	1645.0
-50°	306.2	403.3	508.3	619.3	737.8	863.2	996.5	1139.2	1278.6	1413.8	1535.0
-52.5°	271.2	347.2	444.2	546.0	649.8	758.6	878.7	1005.6	1141.7	1276.3	1393.4
-55°	234.0	301.4	376.9	470.7	564.1	659.9	761.8	875.6	993.2	1121.3	1232.9
-57.5°	205.8	256.4	319.0	392.3	478.4	563.8	653.5	747.1	852.9	962.0	1055.4
-60°	182.5	218.8	266.7	326.4	391.8	469.3	545.0	629.3	718.5	800.5	884.4
-62.5°	160.8	190.7	224.5	266.4	322.3	376.4	440.7	514.3	592.5	663.5	727.5
-65°	152.0	166.6	192.2	223.7	256.1	301.6	349.0	401.6	468.2	527.1	582.5
-67.5°	142.8	156.6	170.2	187.1	215.7	242.2	267.6	313.9	360.6	399.5	440.1
-70°	135.4	146.6	158.9	171.2	183.7	199.7	223.7	248.9	273.4	298.8	332.9
-72.5°	128.0	138.2	148.3	158.2	169.4	180.7	192.3	204.1	221.6	241.6	260.3
-75°	120.7	129.5	138.4	147.4	156.5	165.6	175.3	185.9	196.6	207.2	217.5
-77.5°	113.4	121.3	129.0	136.6	144.4	152.5	161.0	169.8	178.5	187.2	195.5
-80°	105.6	113.0	119.7	126.4	133.2	140.0	147.2	154.6	162.1	169.7	176.9
-82.5°	97.1	103.5	109.6	115.7	121.6	127.6	133.7	139.7	145.8	152.1	158.5
-85°	88.9	93.8	99.3	104.6	109.3	113.9	119.3	124.6	129.9	135.1	140.5
-87.5°	83.3	88.0	92.2	96.4	100.2	104.0	108.3	112.6	116.8	121.1	125.3
-90°	3.0	3.0	3.0	3.0	3.0	3.0	2.5	2.0	2.0	2.0	2.0



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	119.7	122.2	124.7	126.2	127.6	129.6	131.6	135.1	138.5	140.5	142.5
87.5°	2.0	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	2.6	2.2	1.8	1.8	1.8	1.8	1.9	1.9	1.9	2.0	2.0
82.5°	3.0	2.8	2.6	2.7	2.7	2.8	2.8	2.9	2.9	2.9	3.0
80°	3.4	3.4	3.5	3.3	3.0	3.0	3.0	3.0	3.0	3.0	3.0
77.5°	4.2	4.2	4.3	3.8	3.2	3.0	3.0	3.0	3.0	3.0	3.0
75°	5.0	5.2	6.2	6.3	5.9	6.0	6.2	6.0	5.5	5.1	4.8
72.5°	11.0	11.7	12.7	13.6	13.8	14.4	15.4	16.5	17.9	19.0	20.0
70°	21.3	23.1	24.8	25.5	25.2	25.6	26.5	27.8	29.4	31.1	32.8
67.5°	31.6	31.3	32.5	33.8	33.2	32.2	31.3	31.1	32.1	33.3	34.3
65°	38.2	33.4	32.6	32.3	31.6	30.0	27.4	25.3	24.3	23.2	22.1
62.5°	38.0	31.0	27.8	25.7	24.1	22.6	19.2	16.2	14.3	13.0	12.9
60°	33.6	26.3	21.6	18.9	16.1	13.1	11.0	8.9	7.9	7.3	7.5
57.5°	28.2	21.4	16.6	15.1	12.7	9.5	7.5	6.5	5.9	5.3	5.3
55°	26.2	22.7	18.1	17.2	15.6	13.0	10.9	10.9	10.0	8.8	9.4
52.5°	33.6	35.2	31.0	30.2	37.8	36.7	28.9	36.9	41.9	42.7	42.9
50°	74.8	75.3	95.3	94.1	108.4	119.1	116.2	128.4	145.2	150.4	154.9
47.5°	181.5	199.6	213.3	225.2	244.3	272.8	294.6	312.0	323.2	326.6	332.2
45°	329.8	340.1	361.4	386.1	419.9	464.8	488.4	500.1	592.4	665.3	728.0
42.5°	445.2	468.6	509.9	570.2	603.3	783.7	1030.9	1106.6	1152.4	1213.1	1243.5
40°	552.6	598.1	724.2	876.6	1239.3	1591.2	1687.8	1735.6	1783.3	1743.5	1683.8
37.5°	718.9	866.4	1178.4	1573.9	1787.2	1941.5	1984.2	1962.7	1976.4	1965.2	1917.2
35°	1032.8	1464.4	1819.0	1940.0	2040.1	2037.2	2024.0	1998.1	1977.5	1947.5	1928.7
32.5°	1669.7	2118.6	2130.2	2125.3	2116.1	2084.0	2045.5	2000.6	1951.3	1918.3	1915.8
30°	2341.6	2370.1	2319.2	2243.2	2179.1	2131.9	2077.9	2041.5	2014.1	2006.2	2089.2
27.5°	2611.2	2594.9	2499.8	2363.3	2254.7	2197.0	2177.6	2169.9	2272.2	2356.5	2475.3
25°	2936.0	2837.0	2722.7	2550.5	2431.3	2335.4	2385.0	2479.9	2663.8	2833.5	2975.1
22.5°	3141.8	3084.9	2951.4	2771.8	2643.4	2615.3	2699.2	2920.9	3166.1	3445.8	3998.4
20°	3318.4	3273.7	3103.5	2924.1	2857.4	2928.5	3147.8	3505.0	4070.6	5825.4	7750.0
17.5°	3457.4	3349.1	3190.0	3051.5	3066.1	3320.0	3762.9	4810.9	7280.6	13468.8	19420.0
15°	3578.5	3436.3	3241.4	3211.2	3390.0	3801.6	4680.4	8002.4	16047.9	26641.9	39165.6
12.5°	3671.8	3483.1	3288.3	3353.7	3707.7	4361.9	7475.9	15069.5	27817.5	43581.6	71463.6
10°	3708.9	3485.5	3395.8	3591.3	4082.4	5650.8	11008.5	22548.8	40709.4	72441.3	113333.5
7.5°	3699.7	3487.5	3515.7	3794.6	4376.3	7273.8	15947.4	31827.8	58379.1	100749.2	166497.7
5°	3710.0	3540.5	3645.7	3976.5	4658.0	8212.0	19590.6	39148.0	74840.8	130888.1	220288.4
2.5°	3779.8	3633.5	3751.0	4120.7	4791.9	8969.1	21911.3	44889.9	87113.8	155851.0	266730.9
0°	3930.4	3712.7	3868.1	4224.3	4911.0	9380.8	23277.7	48276.3	92183.8	165229.5	284556.7
-2.5°	4062.3	3808.1	3944.0	4299.4	4990.7	9184.6	23755.4	48430.1	87487.4	154946.7	265790.0
-5°	4193.0	3934.1	4012.3	4360.1	5022.1	8650.9	21122.6	43057.6	78888.4	133377.3	220573.7
-7.5°	4335.2	4082.3	4086.2	4401.0	5015.2	8049.4	17974.1	35674.8	63017.7	106724.5	167352.8
-10°	4487.6	4250.3	4170.8	4425.3	5005.6	6742.5	12499.0	26052.5	46483.2	76293.2	114871.2
-12.5°	4652.4	4447.7	4262.2	4400.1	4887.5	5691.3	9186.5	17465.5	30840.6	49817.1	75148.3
-15°	4790.6	4643.2	4441.8	4454.0	4730.7	5271.4	6294.8	9617.8	18778.4	30597.3	44126.3
-17.5°	4819.7	4842.7	4655.7	4477.3	4544.8	4885.6	5444.8	6613.5	9628.8	16540.0	24388.6
-20°	4833.5	5036.3	4885.3	4679.9	4563.9	4625.9	4907.1	5337.0	6076.0	8438.7	11297.6



REPORT NUMBER: P413572 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	4856.7	5050.2	5135.0	4955.9	4688.9	4587.2	4592.1	4819.7	5120.3	5442.1	6393.2
-25°	4890.1	5085.9	5279.5	5237.2	5010.9	4733.3	4562.5	4520.2	4669.5	4823.6	5048.9
-27.5°	4781.2	5130.9	5372.2	5457.4	5329.1	5064.8	4767.6	4544.1	4507.2	4474.6	4606.9
-30°	4602.1	5091.4	5374.7	5553.1	5526.1	5370.0	5139.2	4910.7	4679.9	4513.2	4488.4
-32.5°	3811.2	4976.6	5267.2	5464.7	5611.6	5565.5	5470.3	5296.6	5118.5	4944.5	4786.2
-35°	2965.1	4100.1	5106.3	5254.3	5428.6	5579.2	5652.7	5570.0	5476.6	5356.4	5243.8
-37.5°	2259.3	3090.8	3996.7	4810.7	5100.1	5339.6	5545.2	5651.1	5680.4	5606.2	5553.3
-40°	1929.6	2177.4	2885.1	3547.7	4228.1	4835.7	5099.0	5445.4	5665.5	5687.2	5688.6
-42.5°	1825.9	1929.7	2029.2	2480.3	2997.9	3492.9	4099.6	4712.7	5182.1	5447.4	5614.5
-45°	1751.4	1820.6	1887.8	1962.4	2022.3	2386.8	2840.3	3299.8	3781.5	4349.7	4851.7
-47.5°	1699.2	1742.1	1791.7	1836.1	1873.6	1922.2	1975.8	2082.8	2427.5	2812.7	3181.0
-50°	1621.4	1690.2	1722.6	1750.6	1779.0	1806.6	1833.4	1875.7	1924.5	1971.6	2008.3
-52.5°	1492.1	1569.0	1638.0	1689.7	1708.7	1728.4	1747.5	1779.1	1810.6	1841.3	1863.8
-55°	1330.3	1414.8	1493.9	1548.7	1596.1	1642.9	1682.9	1706.0	1732.5	1758.7	1776.0
-57.5°	1149.6	1236.9	1314.3	1373.0	1428.6	1481.9	1527.0	1566.8	1611.4	1652.4	1680.9
-60°	964.9	1040.8	1111.7	1173.0	1232.9	1289.2	1338.6	1382.9	1427.0	1466.6	1496.4
-62.5°	789.0	854.2	912.9	965.2	1018.5	1069.4	1117.1	1163.3	1210.3	1248.0	1276.3
-65°	635.7	688.1	730.4	769.8	812.6	857.2	895.8	934.7	979.2	1014.5	1039.2
-67.5°	488.8	532.5	565.9	596.2	627.3	661.2	696.0	728.4	762.1	789.3	810.1
-70°	366.7	395.8	416.8	438.6	463.3	489.0	517.2	543.3	566.4	584.1	597.3
-72.5°	278.5	292.8	305.2	322.8	337.9	354.2	371.0	387.8	403.7	415.4	424.5
-75°	227.4	235.8	245.4	253.8	260.9	269.0	277.5	287.7	298.0	304.3	309.0
-77.5°	204.1	210.0	214.4	218.0	221.2	225.8	230.6	237.8	245.4	250.0	253.8
-80°	184.1	188.5	192.2	195.2	197.7	201.6	205.5	211.5	217.7	222.0	225.8
-82.5°	164.8	168.3	171.4	173.9	176.3	179.5	182.6	187.9	193.2	197.0	200.6
-85°	146.0	149.0	151.7	153.6	155.4	158.1	160.7	165.7	170.6	172.6	174.4
-87.5°	129.4	132.2	135.0	136.3	137.5	139.7	141.8	145.9	150.0	152.1	154.2
-90°	2.0	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



REPORT NUMBER: P413572 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-0640L-40-70-1S-VHE

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	144.0	145.5	145.0	144.5	145.0	145.5	144.0	142.5	140.5	138.5	135.1
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9
82.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.9
80°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
77.5°	2.6	2.0	2.5	3.0	2.5	2.0	2.6	3.0	3.0	3.0	3.0
75°	4.4	4.0	4.0	4.0	4.0	4.0	4.4	4.8	5.1	5.5	6.0
72.5°	20.7	21.3	21.7	21.8	21.7	21.3	20.7	20.0	19.0	17.9	16.5
70°	34.4	36.0	36.9	37.6	36.9	36.0	34.4	32.8	31.1	29.4	27.8
67.5°	35.4	36.4	36.6	36.6	36.6	36.4	35.4	34.3	33.3	32.1	31.1
65°	20.6	18.8	18.0	17.8	18.0	18.8	20.6	22.1	23.2	24.3	25.3
62.5°	12.6	12.2	12.4	12.9	12.4	12.2	12.6	12.9	13.0	14.3	16.2
60°	7.5	7.2	7.4	7.9	7.4	7.2	7.5	7.5	7.3	7.9	8.9
57.5°	5.3	5.8	6.3	6.9	6.3	5.8	5.3	5.3	5.3	5.9	6.5
55°	10.1	10.6	11.2	11.9	11.2	10.6	10.1	9.4	8.8	10.0	10.9
52.5°	41.2	39.6	37.7	35.6	37.7	39.6	41.2	42.9	42.7	41.9	36.9
50°	159.6	166.1	169.0	168.2	169.0	166.1	159.6	154.9	150.4	145.2	128.4
47.5°	338.9	340.0	335.0	325.6	335.0	340.0	338.9	332.2	326.6	323.2	312.0
45°	779.0	726.6	644.9	571.9	644.9	726.6	779.0	728.0	665.3	592.4	500.1
42.5°	1329.2	1384.0	1424.9	1440.8	1424.9	1384.0	1329.2	1243.5	1213.1	1152.4	1106.6
40°	1650.7	1599.5	1564.4	1568.4	1564.4	1599.5	1650.7	1683.8	1743.5	1783.3	1735.6
37.5°	1910.1	1922.3	1921.1	1917.7	1921.1	1922.3	1910.1	1917.2	1965.2	1976.4	1962.7
35°	1949.8	2025.9	2123.9	2180.9	2123.9	2025.9	1949.8	1928.7	1947.5	1977.5	1998.1
32.5°	1933.5	1989.4	1992.2	1993.9	1992.2	1989.4	1933.5	1915.8	1918.3	1951.3	2000.6
30°	2146.3	2198.9	2200.2	2199.7	2200.2	2198.9	2146.3	2089.2	2006.2	2014.1	2041.5
27.5°	2551.0	2611.9	2640.2	2633.1	2640.2	2611.9	2551.0	2475.3	2356.5	2272.2	2169.9
25°	3064.2	3108.9	3132.1	3126.9	3132.1	3108.9	3064.2	2975.1	2833.5	2663.8	2479.9
22.5°	4803.6	5003.6	5143.5	5168.3	5143.5	5003.6	4803.6	3998.4	3445.8	3166.1	2920.9
20°	11900.2	13699.8	14020.7	13311.2	14020.7	13699.8	11900.2	7750.0	5825.4	4070.6	3505.0
17.5°	27819.9	34512.2	40580.5	43624.5	40580.5	34512.2	27819.9	19420.0	13468.8	7280.6	4810.9
15°	56214.5	72821.3	84353.7	89947.5	84353.7	72821.3	56214.5	39165.6	26641.9	16047.9	8002.4
12.5°	99668.3	130412.5	153806.4	167253.7	153806.4	130412.5	99668.3	71463.6	43581.6	27817.5	15069.5
10°	166331.8	222686.5	271539.4	299575.8	271539.4	222686.5	166331.8	113333.5	72441.3	40709.4	22548.8
7.5°	253869.2	342489.0	399140.6	426632.3	399140.6	342489.0	253869.2	166497.7	100749.2	58379.1	31827.8
5°	335384.6	436219.4	511571.2	541510.5	511571.2	436219.4	335384.6	220288.4	130888.1	74840.8	39148.0
2.5°	396730.6	505913.5	586561.8	627567.1	586561.8	505913.5	396730.6	266730.9	155851.0	87113.8	44889.9
0°	416382.2	528926.6	615287.5	662381.8	615287.5	528926.6	416382.2	284556.7	165229.5	92183.8	48276.3
-2.5°	392656.0	503449.1	574033.8	603820.3	574033.8	503449.1	392656.0	265790.0	154946.7	87487.4	48430.1
-5°	334977.0	425960.0	494477.2	514718.9	494477.2	425960.0	334977.0	220573.7	133377.3	78888.4	43057.6
-7.5°	242943.7	326056.9	381587.2	399028.7	381587.2	326056.9	242943.7	167352.8	106724.5	63017.7	35674.8
-10°	163058.8	216385.4	254484.8	271567.1	254484.8	216385.4	163058.8	114871.2	76293.2	46483.2	26052.5
-12.5°	102418.6	130284.4	149608.1	157773.9	149608.1	130284.4	102418.6	75148.3	49817.1	30840.6	17465.5
-15°	61630.2	75912.2	84898.3	88256.4	84898.3	75912.2	61630.2	44126.3	30597.3	18778.4	9617.8
-17.5°	33690.7	40704.6	45285.8	47303.6	45285.8	40704.6	33690.7	24388.6	16540.0	9628.8	6613.5
-20°	16551.4	20211.2	22839.7	24103.0	22839.7	20211.2	16551.4	11297.6	8438.7	6076.0	5337.0



REPORT NUMBER: P413572 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	7779.4	8620.4	9151.2	9622.2	9151.2	8620.4	7779.4	6393.2	5442.1	5120.3	4819.7
-25°	5244.6	5411.8	5506.7	5572.1	5506.7	5411.8	5244.6	5048.9	4823.6	4669.5	4520.2
-27.5°	4714.1	4832.6	4894.6	4943.7	4894.6	4832.6	4714.1	4606.9	4474.6	4507.2	4544.1
-30°	4472.8	4490.4	4503.1	4522.2	4503.1	4490.4	4472.8	4488.4	4513.2	4679.9	4910.7
-32.5°	4662.5	4580.9	4540.3	4537.0	4540.3	4580.9	4662.5	4786.2	4944.5	5118.5	5296.6
-35°	5159.8	5102.1	5087.8	5085.2	5087.8	5102.1	5159.8	5243.8	5356.4	5476.6	5570.0
-37.5°	5517.7	5501.6	5499.0	5496.8	5499.0	5501.6	5517.7	5553.3	5606.2	5680.4	5651.1
-40°	5691.0	5700.9	5710.8	5704.7	5710.8	5700.9	5691.0	5688.6	5687.2	5665.5	5445.4
-42.5°	5685.6	5719.5	5735.6	5741.3	5735.6	5719.5	5685.6	5614.5	5447.4	5182.1	4712.7
-45°	5216.2	5462.8	5588.6	5610.6	5588.6	5462.8	5216.2	4851.7	4349.7	3781.5	3299.8
-47.5°	3495.4	3808.4	3964.2	3927.5	3964.2	3808.4	3495.4	3181.0	2812.7	2427.5	2082.8
-50°	2036.8	2068.7	2075.9	2059.2	2075.9	2068.7	2036.8	2008.3	1971.6	1924.5	1875.7
-52.5°	1881.6	1895.6	1898.0	1891.0	1898.0	1895.6	1881.6	1863.8	1841.3	1810.6	1779.1
-55°	1789.8	1798.5	1798.2	1792.0	1798.2	1798.5	1789.8	1776.0	1758.7	1732.5	1706.0
-57.5°	1704.3	1722.0	1725.1	1718.8	1725.1	1722.0	1704.3	1680.9	1652.4	1611.4	1566.8
-60°	1521.4	1541.0	1543.7	1536.7	1543.7	1541.0	1521.4	1496.4	1466.6	1427.0	1382.9
-62.5°	1300.6	1320.5	1323.3	1317.1	1323.3	1320.5	1300.6	1276.3	1248.0	1210.3	1163.3
-65°	1061.2	1079.7	1081.0	1074.6	1081.0	1079.7	1061.2	1039.2	1014.5	979.2	934.7
-67.5°	829.0	844.9	847.0	843.1	847.0	844.9	829.0	810.1	789.3	762.1	728.4
-70°	610.3	621.2	620.9	616.5	620.9	621.2	610.3	597.3	584.1	566.4	543.3
-72.5°	434.1	442.4	440.7	436.4	440.7	442.4	434.1	424.5	415.4	403.7	387.8
-75°	313.8	318.1	315.9	312.7	315.9	318.1	313.8	309.0	304.3	298.0	287.7
-77.5°	257.3	260.5	258.7	256.3	258.7	260.5	257.3	253.8	250.0	245.4	237.8
-80°	228.6	231.1	229.5	227.6	229.5	231.1	228.6	225.8	222.0	217.7	211.5
-82.5°	202.6	204.5	203.3	201.9	203.3	204.5	202.6	200.6	197.0	193.2	187.9
-85°	176.7	178.9	178.1	177.1	178.1	178.9	176.7	174.4	172.6	170.6	165.7
-87.5°	155.7	157.3	156.3	155.4	156.3	157.3	155.7	154.2	152.1	150.0	145.9
-90°	0.5	0.0	0.5	1.0	0.5	0.0	0.5	1.0	1.0	1.0	1.0



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	131.6	129.6	127.6	126.2	124.7	122.2	119.7	116.3	112.8	108.9	104.9
87.5°	1.0	1.0	1.0	1.0	1.0	1.5	2.0	2.0	2.0	2.0	2.0
85°	1.9	1.8	1.8	1.8	1.8	2.2	2.6	2.6	2.5	2.5	2.4
82.5°	2.8	2.8	2.7	2.7	2.6	2.8	3.0	3.2	3.3	3.2	3.1
80°	3.0	3.0	3.0	3.3	3.5	3.4	3.4	3.7	4.1	3.9	3.8
77.5°	3.0	3.0	3.2	3.8	4.3	4.2	4.2	4.5	4.7	4.6	4.5
75°	6.2	6.0	5.9	6.3	6.2	5.2	5.0	5.3	5.5	5.3	5.3
72.5°	15.4	14.4	13.8	13.6	12.7	11.7	11.0	10.2	8.8	7.0	5.8
70°	26.5	25.6	25.2	25.5	24.8	23.1	21.3	19.2	16.1	13.4	11.0
67.5°	31.3	32.2	33.2	33.8	32.5	31.3	31.6	31.3	28.6	24.7	19.3
65°	27.4	30.0	31.6	32.3	32.6	33.4	38.2	40.0	38.5	36.0	30.8
62.5°	19.2	22.6	24.1	25.7	27.8	31.0	38.0	42.4	44.5	45.0	40.2
60°	11.0	13.1	16.1	18.9	21.6	26.3	33.6	40.3	45.6	45.7	45.3
57.5°	7.5	9.5	12.7	15.1	16.6	21.4	28.2	35.7	42.0	45.0	44.6
55°	10.9	13.0	15.6	17.2	18.1	22.7	26.2	32.8	40.5	45.0	47.0
52.5°	28.9	36.7	37.8	30.2	31.0	35.2	33.6	39.1	44.6	49.6	54.0
50°	116.2	119.1	108.4	94.1	95.3	75.3	74.8	67.3	65.8	67.8	68.2
47.5°	294.6	272.8	244.3	225.2	213.3	199.6	181.5	149.2	145.5	116.1	117.4
45°	488.4	464.8	419.9	386.1	361.4	340.1	329.8	307.3	272.4	245.2	197.1
42.5°	1030.9	783.7	603.3	570.2	509.9	468.6	445.2	437.6	420.5	384.5	342.2
40°	1687.8	1591.2	1239.3	876.6	724.2	598.1	552.6	524.8	522.9	505.3	476.8
37.5°	1984.2	1941.5	1787.2	1573.9	1178.4	866.4	718.9	630.0	601.5	592.9	570.4
35°	2024.0	2037.2	2040.1	1940.0	1819.0	1464.4	1032.8	809.9	699.2	667.4	647.7
32.5°	2045.5	2084.0	2116.1	2125.3	2130.2	2118.6	1669.7	1147.5	837.2	755.7	715.9
30°	2077.9	2131.9	2179.1	2243.2	2319.2	2370.1	2341.6	1697.0	1154.3	845.0	788.1
27.5°	2177.6	2197.0	2254.7	2363.3	2499.8	2594.9	2611.2	2349.8	1541.3	1077.8	870.7
25°	2385.0	2335.4	2431.3	2550.5	2722.7	2837.0	2936.0	2762.8	2173.6	1362.1	955.1
22.5°	2699.2	2615.3	2643.4	2771.8	2951.4	3084.9	3141.8	3109.8	2821.9	1829.9	1217.2
20°	3147.8	2928.5	2857.4	2924.1	3103.5	3273.7	3318.4	3323.1	3119.9	2444.6	1509.7
17.5°	3762.9	3320.0	3066.1	3051.5	3190.0	3349.1	3457.4	3494.1	3355.4	2967.1	1770.8
15°	4680.4	3801.6	3390.0	3211.2	3241.4	3436.3	3578.5	3680.6	3554.5	3269.7	2166.9
12.5°	7475.9	4361.9	3707.7	3353.7	3288.3	3483.1	3671.8	3787.6	3712.3	3427.8	2539.3
10°	11008.5	5650.8	4082.4	3591.3	3395.8	3485.5	3708.9	3852.8	3834.0	3578.4	2846.6
7.5°	15947.4	7273.8	4376.3	3794.6	3515.7	3487.5	3699.7	3885.1	3916.9	3679.7	3120.4
5°	19590.6	8212.0	4658.0	3976.5	3645.7	3540.5	3710.0	3903.8	3955.0	3726.4	3330.4
2.5°	21911.3	8969.1	4791.9	4120.7	3751.0	3633.5	3779.8	3954.1	3970.0	3733.3	3432.2
0°	<b>23277.7</b>	<b>9380.8</b>	<b>4911.0</b>	<b>4224.3</b>	<b>3868.1</b>	<b>3712.7</b>	<b>3930.4</b>	<b>4033.3</b>	<b>3966.0</b>	<b>3720.6</b>	<b>3480.2</b>
-2.5°	23755.4	9184.6	4990.7	4299.4	3944.0	3808.1	4062.3	4195.1	4054.1	3747.9	3486.1
-5°	21122.6	8650.9	5022.1	4360.1	4012.3	3934.1	4193.0	4333.8	4129.9	3781.0	3437.8
-7.5°	17974.1	8049.4	5015.2	4401.0	4086.2	4082.3	4335.2	4446.7	4212.3	3884.8	3376.4
-10°	12499.0	6742.5	5005.6	4425.3	4170.8	4250.3	4487.6	4514.2	4290.8	3972.2	3238.8
-12.5°	9186.5	5691.3	4887.5	4400.1	4262.2	4447.7	4652.4	4567.6	4386.1	4067.7	3083.2
-15°	6294.8	5271.4	4730.7	4454.0	4441.8	4643.2	4790.6	4600.8	4437.3	4112.8	2844.5
-17.5°	5444.8	4885.6	4544.8	4477.3	4655.7	4842.7	4819.7	4633.5	4417.3	3916.7	2510.0
-20°	4907.1	4625.9	4563.9	4679.9	4885.3	5036.3	4833.5	4663.4	4339.1	3448.9	2265.4



REPORT NUMBER: P413572 (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°	4592.1	4587.2	4688.9	4955.9	5135.0	5050.2	4856.7	4637.3	4201.7	2881.5	1980.3
-25°	4562.5	4733.3	5010.9	5237.2	5279.5	5085.9	4890.1	4464.3	3555.9	2414.4	1718.0
-27.5°	4767.6	5064.8	5329.1	5457.4	5372.2	5130.9	4781.2	4142.9	2796.9	2063.1	1688.8
-30°	5139.2	5370.0	5526.1	5553.1	5374.7	5091.4	4602.1	3315.9	2325.4	1792.9	1642.2
-32.5°	5470.3	5565.5	5611.6	5464.7	5267.2	4976.6	3811.2	2581.7	1945.4	1734.5	1606.0
-35°	5652.7	5579.2	5428.6	5254.3	5106.3	4100.1	2965.1	2136.1	1812.0	1676.9	1571.2
-37.5°	5545.2	5339.6	5100.1	4810.7	3996.7	3090.8	2259.3	1886.1	1739.6	1635.4	1546.0
-40°	5099.0	4835.7	4228.1	3547.7	2885.1	2177.4	1929.6	1798.5	1690.7	1599.8	1524.7
-42.5°	4099.6	3492.9	2997.9	2480.3	2029.2	1929.7	1825.9	1731.7	1645.9	1574.4	1452.7
-45°	2840.3	2386.8	2022.3	1962.4	1887.8	1820.6	1751.4	1681.8	1616.7	1499.4	1362.3
-47.5°	1975.8	1922.2	1873.6	1836.1	1791.7	1742.1	1699.2	1645.0	1527.4	1401.5	1256.7
-50°	1833.4	1806.6	1779.0	1750.6	1722.6	1690.2	1621.4	1535.0	1413.8	1278.6	1139.2
-52.5°	1747.5	1728.4	1708.7	1689.7	1638.0	1569.0	1492.1	1393.4	1276.3	1141.7	1005.6
-55°	1682.9	1642.9	1596.1	1548.7	1493.9	1414.8	1330.3	1232.9	1121.3	993.2	875.6
-57.5°	1527.0	1481.9	1428.6	1373.0	1314.3	1236.9	1149.6	1055.4	962.0	852.9	747.1
-60°	1338.6	1289.2	1232.9	1173.0	1111.7	1040.8	964.9	884.4	800.5	718.5	629.3
-62.5°	1117.1	1069.4	1018.5	965.2	912.9	854.2	789.0	727.5	663.5	592.5	514.3
-65°	895.8	857.2	812.6	769.8	730.4	688.1	635.7	582.5	527.1	468.2	401.6
-67.5°	696.0	661.2	627.3	596.2	565.9	532.5	488.8	440.1	399.5	360.6	313.9
-70°	517.2	489.0	463.3	438.6	416.8	395.8	366.7	332.9	298.8	273.4	248.9
-72.5°	371.0	354.2	337.9	322.8	305.2	292.8	278.5	260.3	241.6	221.6	204.1
-75°	277.5	269.0	260.9	253.8	245.4	235.8	227.4	217.5	207.2	196.6	185.9
-77.5°	230.6	225.8	221.2	218.0	214.4	210.0	204.1	195.5	187.2	178.5	169.8
-80°	205.5	201.6	197.7	195.2	192.2	188.5	184.1	176.9	169.7	162.1	154.6
-82.5°	182.6	179.5	176.3	173.9	171.4	168.3	164.8	158.5	152.1	145.8	139.7
-85°	160.7	158.1	155.4	153.6	151.7	149.0	146.0	140.5	135.1	129.9	124.6
-87.5°	141.8	139.7	137.5	136.3	135.0	132.2	129.4	125.3	121.1	116.8	112.6
-90°	1.0	1.0	1.0	1.0	1.0	1.5	2.0	2.0	2.0	2.0	2.0





REPORT NUMBER: P413572 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-0640L-40-70-1S-VHE

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	101.0	97.0	93.1	89.1	85.6	82.1	77.7	73.2	68.3	63.3	56.9
87.5°	2.5	3.0	3.0	3.0	3.3	3.5	3.5	3.4	3.9	4.3	4.4
85°	2.7	3.0	3.1	3.2	3.6	4.0	3.9	3.9	4.2	4.6	4.8
82.5°	3.0	3.0	3.5	3.8	4.1	4.5	4.6	4.5	4.8	5.0	5.3
80°	3.7	3.6	4.0	4.3	4.7	5.0	5.2	5.4	5.5	5.7	5.8
77.5°	4.6	4.5	4.6	4.9	5.2	5.5	5.8	6.1	6.3	6.4	6.5
75°	5.6	5.6	5.4	5.5	5.8	6.0	6.3	6.6	7.0	7.1	7.1
72.5°	5.8	6.1	6.2	6.1	6.4	6.8	7.1	7.2	7.7	7.9	7.8
70°	8.7	7.2	7.3	7.5	7.4	7.7	8.3	8.5	8.4	8.8	8.8
67.5°	13.9	11.4	9.8	9.1	9.0	9.3	9.7	10.0	9.9	9.8	9.9
65°	24.4	17.8	12.8	12.0	11.1	11.0	11.2	11.6	11.5	11.5	11.0
62.5°	33.8	26.0	20.1	16.0	14.1	13.9	12.9	13.7	13.2	13.2	12.6
60°	42.4	34.1	28.0	23.4	19.7	17.5	16.7	15.9	15.7	15.1	14.4
57.5°	43.2	41.0	37.7	31.8	28.3	24.0	21.3	19.9	18.4	17.6	16.3
55°	44.2	43.1	46.8	42.9	39.1	33.4	28.2	25.1	21.9	20.4	18.3
52.5°	52.8	52.5	55.2	56.8	53.7	45.0	39.0	30.6	27.9	23.4	21.2
50°	67.6	70.0	69.3	74.3	70.5	62.7	50.5	41.6	34.5	27.4	24.2
47.5°	100.9	102.7	94.1	98.4	93.4	82.5	68.1	54.8	41.7	34.2	27.4
45°	184.8	155.9	143.8	134.1	123.0	110.2	88.9	69.3	55.1	41.4	30.6
42.5°	294.0	252.5	227.7	176.8	167.3	143.9	114.2	92.3	69.4	49.0	35.9
40°	426.5	369.6	328.1	272.8	220.4	181.9	150.7	118.3	84.6	58.6	42.7
37.5°	550.0	480.8	430.8	371.0	287.8	237.1	190.4	146.4	102.4	72.0	49.6
35°	621.2	582.6	519.8	460.2	378.1	295.0	231.9	178.7	126.5	85.6	56.7
32.5°	682.6	660.7	599.7	539.4	455.6	354.3	280.9	212.1	151.0	99.3	64.0
30°	745.9	714.1	670.1	608.4	521.0	419.5	330.1	244.0	175.7	113.1	72.4
27.5°	810.2	770.0	731.0	666.2	577.2	477.3	370.9	274.2	200.5	129.2	83.5
25°	875.8	826.8	783.1	723.1	632.6	520.4	409.0	303.0	225.6	148.4	94.5
22.5°	952.7	880.7	831.8	780.7	686.3	561.2	445.0	335.5	246.8	166.3	105.1
20°	1025.6	934.4	875.8	829.4	736.7	605.1	479.3	364.1	266.6	182.9	115.4
17.5°	1121.9	990.3	914.6	863.8	781.6	649.3	514.0	391.0	285.0	198.3	125.2
15°	1343.9	1047.7	954.1	894.9	820.1	691.7	547.7	416.3	301.9	212.3	133.9
12.5°	1553.4	1103.5	993.4	920.8	850.7	729.3	580.0	439.7	317.3	224.8	141.1
10°	1756.4	1155.3	1031.6	946.3	877.7	762.0	610.3	461.5	332.5	235.8	147.4
7.5°	1959.8	1203.0	1067.7	971.6	902.2	788.7	636.4	482.0	346.6	245.8	152.9
5°	2132.3	1245.1	1103.3	1001.2	929.0	809.3	659.0	499.9	359.2	254.4	157.6
2.5°	2215.7	1279.9	1136.8	1030.0	953.4	825.7	678.2	515.1	370.0	261.5	161.4
0°	2261.1	1309.2	1166.7	1056.8	974.7	838.1	693.7	527.4	379.0	267.2	164.3
-2.5°	2264.9	1335.2	1191.5	1084.0	998.9	857.1	706.5	537.2	387.4	272.7	168.2
-5°	2231.7	1355.9	1212.9	1108.5	1019.0	872.0	715.3	543.9	393.6	276.4	171.2
-7.5°	2154.1	1373.1	1231.5	1130.0	1034.6	882.5	720.0	547.4	397.5	278.4	173.2
-10°	2044.6	1385.7	1246.9	1146.3	1046.5	890.4	720.8	547.8	399.0	278.6	174.2
-12.5°	1933.3	1394.3	1258.3	1161.2	1054.5	895.0	720.1	546.3	398.1	276.8	174.2
-15°	1799.2	1408.5	1272.7	1175.5	1058.7	894.1	714.6	541.9	395.5	273.7	173.0
-17.5°	1616.5	1416.2	1284.5	1190.7	1055.9	887.4	704.2	533.9	390.2	269.4	171.4
-20°	1580.1	1420.8	1291.5	1202.3	1044.7	873.2	688.8	522.3	382.1	263.2	169.0



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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°	1572.6	1423.6	1303.9	1191.4	1025.2	855.2	669.0	507.1	371.2	255.1	165.4
-25°	1554.4	1421.7	1312.0	1173.6	1000.5	829.4	647.3	488.8	357.4	245.2	160.3
-27.5°	1538.4	1415.8	1315.0	1151.1	976.7	798.1	623.9	472.0	342.8	233.4	153.8
-30°	1522.8	1415.0	1291.9	1122.3	945.2	763.3	596.3	452.0	328.3	223.3	145.8
-32.5°	1500.3	1412.7	1256.6	1081.5	903.6	724.5	565.5	428.7	311.6	213.6	140.8
-35°	1485.1	1375.3	1213.8	1032.7	855.6	687.3	534.1	402.1	292.6	201.9	136.3
-37.5°	1464.0	1313.7	1152.9	975.3	801.4	645.3	503.3	377.4	271.4	188.3	131.1
-40°	1390.8	1242.1	1080.8	909.5	746.9	598.2	468.7	351.1	252.4	172.7	125.1
-42.5°	1310.9	1162.4	1001.5	836.3	689.5	554.3	431.1	320.9	232.4	161.9	118.4
-45°	1217.9	1073.0	914.6	766.7	629.0	506.4	392.7	288.3	210.5	153.3	113.4
-47.5°	1114.9	968.5	827.8	691.3	571.4	455.4	349.3	261.7	187.1	143.8	111.5
-50°	996.5	863.2	737.8	619.3	508.3	403.3	306.2	233.2	174.8	133.1	109.1
-52.5°	878.7	758.6	649.8	546.0	444.2	347.2	271.2	204.1	161.1	127.2	106.4
-55°	761.8	659.9	564.1	470.7	376.9	301.4	234.0	186.1	146.2	123.2	103.3
-57.5°	653.5	563.8	478.4	392.3	319.0	256.4	205.8	166.9	138.6	118.8	101.0
-60°	545.0	469.3	391.8	326.4	266.7	218.8	182.5	150.9	133.0	114.3	98.3
-62.5°	440.7	376.4	322.3	266.4	224.5	190.7	160.8	143.7	126.8	110.8	95.3
-65°	349.0	301.6	256.1	223.7	192.2	166.6	152.0	136.0	121.7	107.0	92.3
-67.5°	267.6	242.2	215.7	187.1	170.2	156.6	142.8	129.7	116.8	103.0	89.3
-70°	223.7	199.7	183.7	171.2	158.9	146.6	135.4	123.7	111.5	99.1	86.2
-72.5°	192.3	180.7	169.4	158.2	148.3	138.2	128.0	117.6	106.4	94.9	82.8
-75°	175.3	165.6	156.5	147.4	138.4	129.5	120.7	111.5	101.1	90.5	79.1
-77.5°	161.0	152.5	144.4	136.6	129.0	121.3	113.4	105.2	95.5	85.9	75.1
-80°	147.2	140.0	133.2	126.4	119.7	113.0	105.6	98.1	89.5	81.1	71.1
-82.5°	133.7	127.6	121.6	115.7	109.6	103.5	97.1	90.7	83.3	76.1	67.2
-85°	119.3	113.9	109.3	104.6	99.3	93.8	88.9	83.9	78.0	71.9	63.9
-87.5°	108.3	104.0	100.2	96.4	92.2	88.0	83.3	78.6	73.1	67.7	60.4
-90°	2.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.5	4.0	4.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	50.5	43.5	36.6	28.2	19.8	14.3	8.9
87.5°	4.5	4.5	4.5	4.8	5.2	7.1	8.9
85°	5.0	5.0	5.0	5.2	5.4	7.3	8.9
82.5°	5.5	5.6	5.5	5.6	5.7	7.4	8.9
80°	6.0	6.1	6.0	6.0	6.0	7.6	8.9
77.5°	6.6	6.6	6.5	6.4	6.3	7.8	8.9
75°	7.1	7.2	7.1	6.8	6.6	8.0	8.9
72.5°	7.7	7.8	7.6	7.2	6.9	8.2	8.9
70°	8.4	8.4	8.2	7.6	7.3	8.4	8.9
67.5°	9.5	9.0	8.9	8.2	7.6	8.6	8.9
65°	10.8	9.9	9.5	8.8	8.0	8.8	8.9
62.5°	12.0	11.1	10.2	9.5	8.3	9.0	8.9
60°	13.3	12.3	10.9	10.1	8.7	9.2	8.9
57.5°	15.1	13.5	12.1	10.8	9.3	9.4	8.9
55°	17.0	14.7	13.2	11.5	9.9	9.7	8.9
52.5°	19.1	16.1	14.4	12.2	10.6	9.9	8.9
50°	21.1	18.0	15.6	12.9	11.2	10.1	8.9
47.5°	23.4	20.0	16.8	13.6	11.8	10.3	8.9
45°	26.2	22.1	18.0	14.6	12.5	10.5	8.9
42.5°	29.0	24.1	19.2	15.5	13.1	10.7	8.9
40°	32.0	26.2	20.7	16.6	13.8	11.0	8.9
37.5°	35.2	28.4	22.3	17.7	14.4	11.2	8.9
35°	38.5	30.8	23.9	18.9	15.1	11.4	8.9
32.5°	42.6	33.4	25.6	20.1	15.7	11.6	8.9
30°	48.6	36.0	27.2	21.2	16.3	11.8	8.9
27.5°	54.4	38.6	29.1	22.4	17.0	12.0	8.9
25°	60.2	41.2	31.0	23.6	17.6	12.2	8.9
22.5°	65.8	43.8	32.8	24.7	18.2	12.4	8.9
20°	71.2	46.5	34.6	25.8	18.8	12.6	8.9
17.5°	76.2	49.2	36.4	26.9	19.4	12.8	8.9
15°	80.9	51.7	38.1	28.0	19.9	13.0	8.9
12.5°	85.2	54.2	39.7	29.0	20.5	13.1	8.9
10°	89.1	56.5	41.2	30.0	21.0	13.3	8.9
7.5°	92.7	58.6	42.7	31.0	21.5	13.5	8.9
5°	95.8	60.7	44.0	31.9	22.0	13.6	8.9
2.5°	98.6	62.6	45.3	32.8	22.4	13.8	8.9
0°	100.9	64.3	46.5	33.6	22.8	13.9	8.9
-2.5°	103.5	66.2	48.0	34.7	23.5	14.2	8.9
-5°	105.6	67.9	49.4	35.7	24.2	14.5	8.9
-7.5°	107.2	69.4	50.7	36.6	24.8	14.8	8.9
-10°	108.4	70.8	51.9	37.5	25.4	15.1	8.9
-12.5°	109.1	71.9	53.0	38.3	26.0	15.4	8.9
-15°	109.3	72.9	54.0	39.1	26.5	15.6	8.9
-17.5°	108.9	73.7	54.8	39.7	27.0	15.9	8.9
-20°	108.2	74.3	55.5	40.3	27.4	16.1	8.9



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	107.3	74.7	56.1	40.9	27.8	16.3	8.9
-25°	105.8	75.1	56.5	41.3	28.1	16.5	8.9
-27.5°	103.6	75.4	56.8	41.7	28.3	16.7	8.9
-30°	100.8	75.5	57.0	41.9	28.6	16.8	8.9
-32.5°	97.3	75.4	57.3	42.1	28.7	16.9	8.9
-35°	95.8	75.2	57.5	42.3	28.8	17.0	8.9
-37.5°	95.2	74.9	57.5	42.3	28.9	17.1	8.9
-40°	94.4	74.7	57.4	42.3	28.8	17.2	8.9
-42.5°	93.4	74.4	57.3	42.2	28.8	17.2	8.9
-45°	92.1	73.9	57.1	42.1	28.6	17.3	8.9
-47.5°	90.5	73.3	56.9	41.9	28.5	17.3	8.9
-50°	89.3	72.5	56.4	41.6	28.2	17.2	8.9
-52.5°	87.9	71.5	55.9	41.3	27.9	17.2	8.9
-55°	86.3	70.4	55.2	40.8	27.6	17.1	8.9
-57.5°	84.4	69.2	54.3	40.3	27.2	17.1	8.9
-60°	82.4	67.8	53.4	39.6	26.7	17.0	8.9
-62.5°	80.4	66.2	52.4	38.9	26.4	16.8	8.9
-65°	78.3	64.5	51.2	38.1	26.0	16.7	8.9
-67.5°	76.0	62.7	50.0	37.2	25.6	16.5	8.9
-70°	73.5	60.8	48.7	36.3	25.1	16.4	8.9
-72.5°	70.7	58.7	47.2	35.4	24.5	16.2	8.9
-75°	67.7	56.4	45.7	34.6	24.0	15.9	8.9
-77.5°	64.5	54.1	44.3	33.7	23.4	15.7	8.9
-80°	61.2	52.0	42.9	32.7	22.7	15.5	8.9
-82.5°	58.6	50.0	41.5	31.7	22.0	15.2	8.9
-85°	56.0	47.9	39.9	30.6	21.3	14.9	8.9
-87.5°	53.3	45.8	38.3	29.4	20.6	14.6	8.9
-90°	4.0	4.0	4.0	4.5	4.9	6.9	8.9

(END OF REPORT)