

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: P413435 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-08-0320L-57-80-2S-HEG**

Issue Date: 10/30/2020

Test Information

Test Method: LM-79-08
Report Number: P413435 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1912-617-11)
Test Lab: INNOVATION CENTER
Issue Date: 10/30/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-08-0320L-57-80-2S-HEG
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 2S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

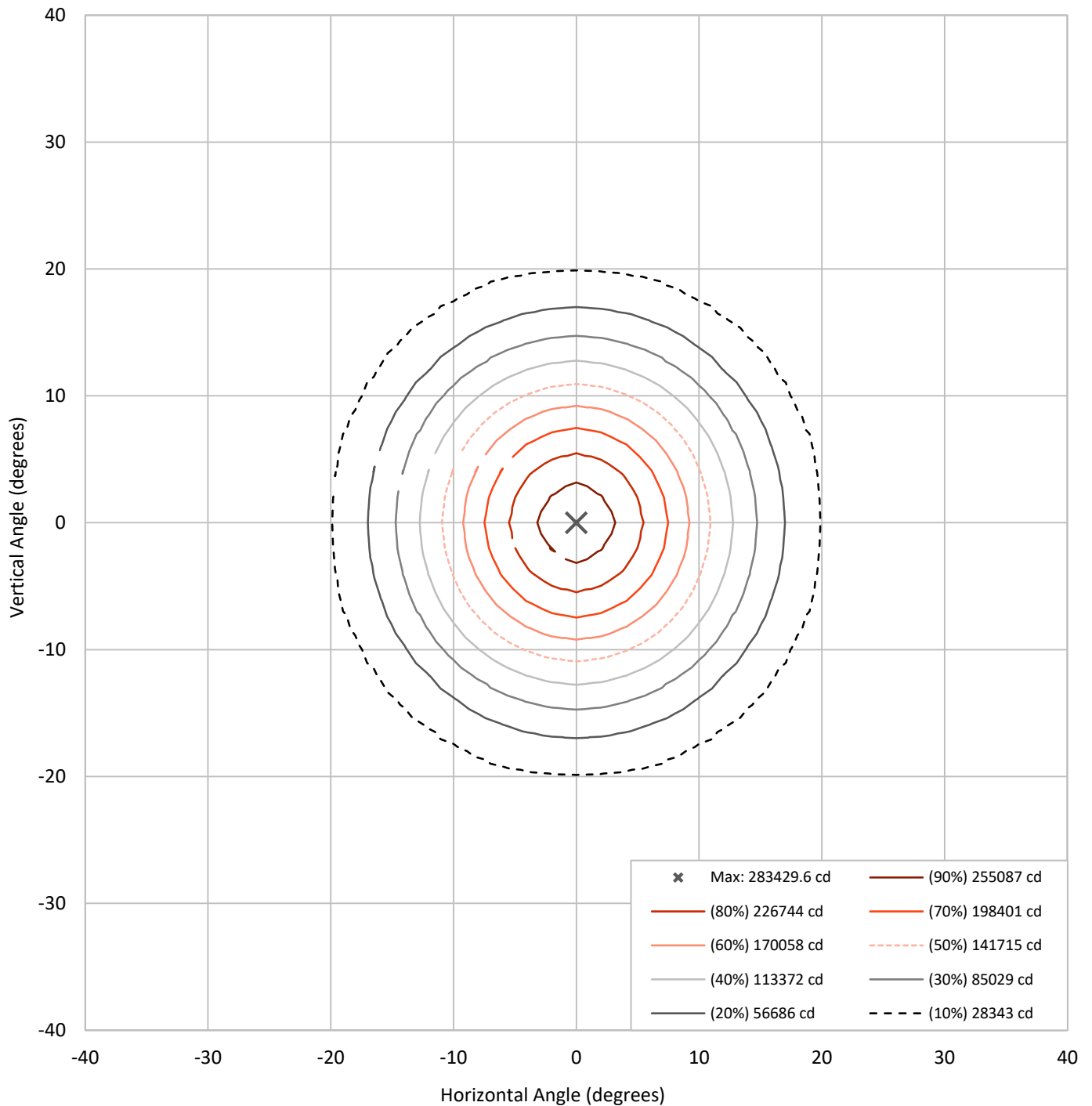
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	51178.5 lumens	Max Intensity:	283429.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	151.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	21.9°H x 21.9°V	Field Angle (10%):	39.8°H x 39.8°V
Beam Lumens:	22361.4 lumens	Field Lumens:	41970 lumens
Beam Efficiency:	43.7%	Field Efficiency:	82.0%
Input Watts (W):	339		
Input Voltage (V):	NR		
Input Current (A _{in}):	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-57-80-2S-HEG

Iso-Candela Plot





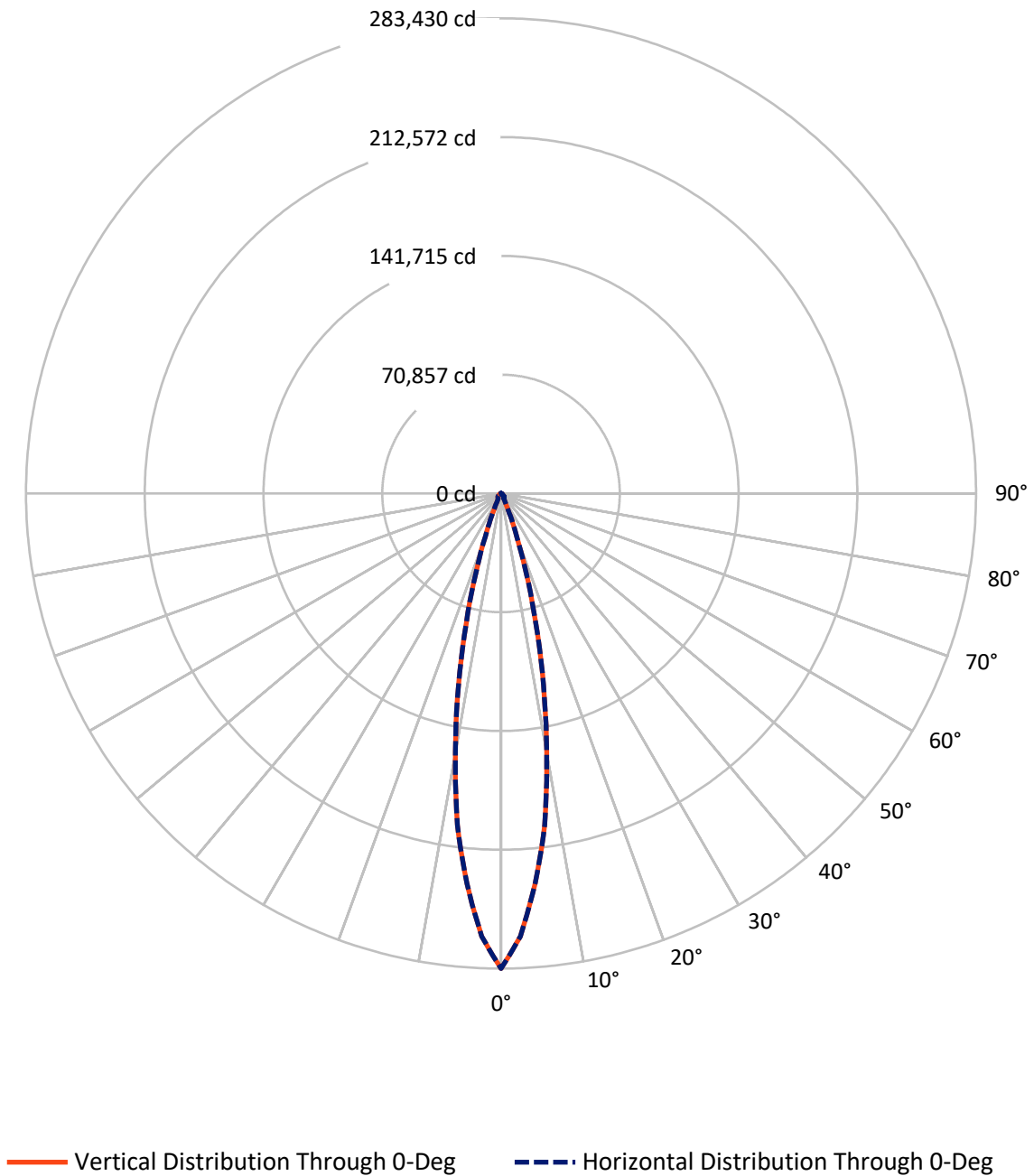
REPORT NUMBER: P413435 (CONVERTED FROM TYPE C PHOTOMETRY)
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Lumen Table

90	0.0	0.3	1.5	4.0	5.4	4.0	1.5	0.3	0.0										
80	0.0	0.3	1.5	4.0	5.4	4.0	1.5	0.3	0.0										
70	0.2	0.2	1.0	3.0	6.1	9.4	12.2	13.7	13.7	12.2	9.4	6.1	3.0	1.0	0.2	0.2			
60		0.7	3.6	8.7	15.2	21.2	25.3	27.4	27.4	25.3	21.2	15.2	8.7	3.6	0.7				
50	0.5	1.9	7.1	15.3	23.4	37.8	58.0	69.7	69.7	58.0	37.8	23.4	15.3	7.1	1.9	0.5			
40		3.3	10.7	20.2	44.6	77.3	90.8	95.8	95.8	90.8	77.3	44.6	20.2	10.7	3.3				
30	1.2	4.5	13.6	29.8	70.0	87.7	125.8	258.9	258.9	125.8	87.7	70.0	29.8	13.6	4.5	1.2			
20		5.5	15.2	43.1	77.0	118.4	746.3	2168.1	2168.1	746.3	118.4	77.0	43.1	15.2	5.5				
10	1.5	6.0	15.9	50.0	78.8	238.6	2112.8	5813.7	5813.7	2112.8	238.6	78.8	50.0	15.9	6.0	1.5			
0		6.0	15.9	50.0	78.8	238.6	2112.8	5813.7	5813.7	2112.8	238.6	78.8	50.0	15.9	6.0				
-10	1.2	5.5	15.2	43.1	77.0	118.4	746.3	2168.1	2168.1	746.3	118.4	77.0	43.1	15.2	5.5	1.2			
-20		4.5	13.6	29.8	70.0	87.7	125.8	258.9	258.9	125.8	87.7	70.0	29.8	13.6	4.5				
-30	0.5	3.3	10.7	20.2	44.6	77.3	90.8	95.8	95.8	90.8	77.3	44.6	20.2	10.7	3.3	0.5			
-40		1.9	7.1	15.3	23.4	37.8	58.0	69.7	69.7	58.0	37.8	23.4	15.3	7.1	1.9				
-50	0.2	0.7	3.6	8.7	15.2	21.2	25.3	27.4	27.4	25.3	21.2	15.2	8.7	3.6	0.7	0.2			
-60		0.2	1.0	3.0	6.1	9.4	12.2	13.7	13.7	12.2	9.4	6.1	3.0	1.0	0.2				
-70	0.0	0.3	1.5	4.0	5.4	4.0	1.5	0.3	0.0						0.0				
-80		0.3	1.5	4.0	5.4	4.0	1.5	0.3	0.0										
-90	0.0	0.3	1.5	4.0	5.4	4.0	1.5	0.3	0.0						0.0				
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

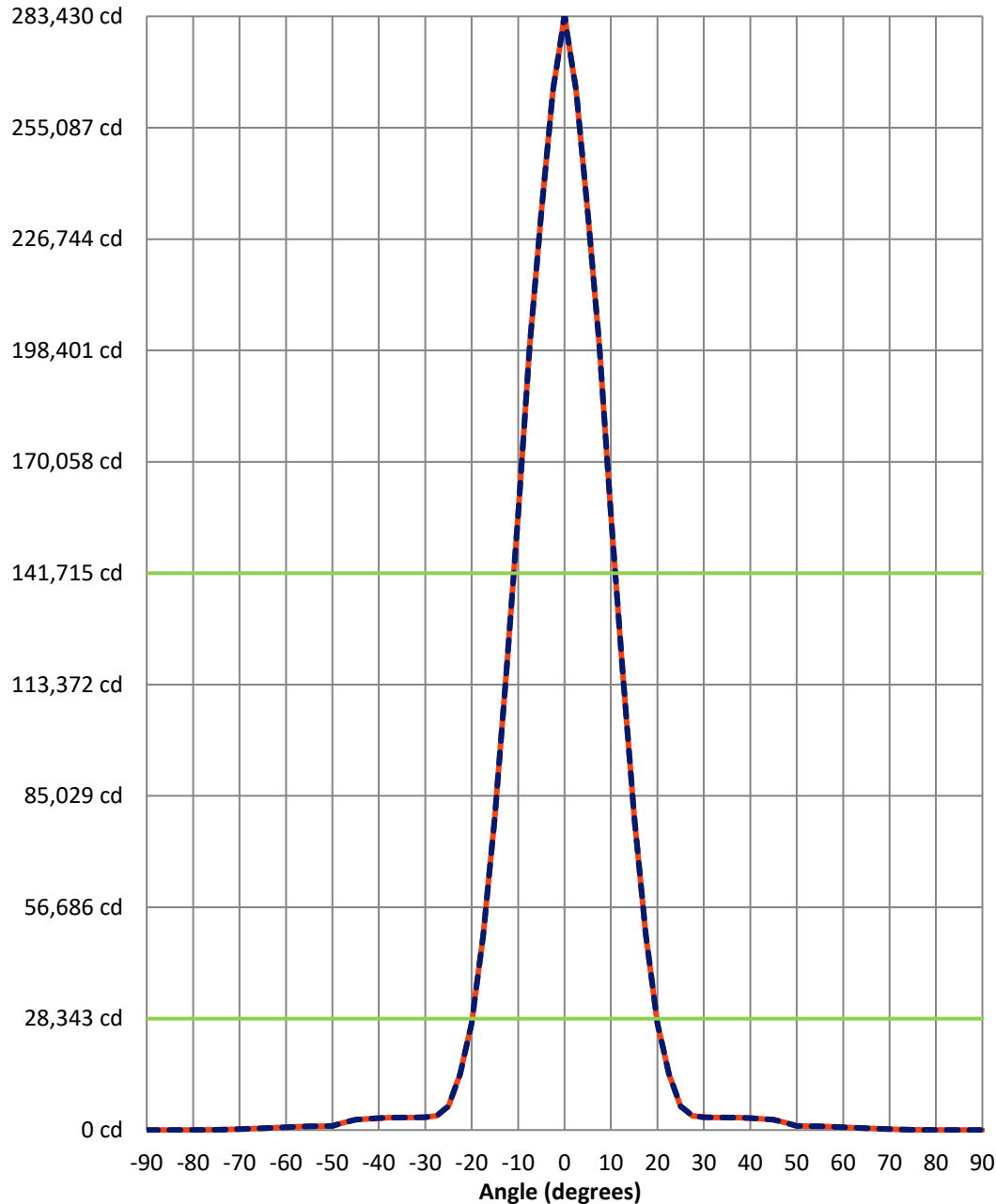
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
H Angle: 21.9°
V Angle: 21.9°
Lumens: 22361.4
Efficiency: 43.7%

Field:
H Angle: 39.8°
V Angle: 39.8°
Lumens: 41970
Efficiency: 82.0%

Spill:
Lumens: 9208.5
Efficiency: 18.0%

— Vertical Distribution through 0-Deg
- - Horizontal Distribution through 0-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.4
85°	0.0	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.7	0.8
82.5°	0.0	0.1	0.2	0.4	0.5	0.6	0.7	0.8	1.0	1.3	1.7
80°	0.0	0.2	0.3	0.5	0.6	0.8	1.0	1.5	1.9	2.4	2.9
77.5°	0.0	0.2	0.4	0.6	0.8	1.1	1.7	2.3	2.9	3.5	4.3
75°	0.0	0.2	0.5	0.7	1.0	1.7	2.5	3.2	3.9	5.1	6.2
72.5°	0.0	0.3	0.5	0.8	1.5	2.3	3.2	4.2	5.5	6.8	8.1
70°	0.0	0.3	0.6	1.0	1.9	2.9	3.9	5.5	7.0	8.6	10.6
67.5°	0.0	0.3	0.7	1.3	2.4	3.5	5.1	6.8	8.6	10.9	13.3
65°	0.0	0.4	0.8	1.7	2.9	4.3	6.2	8.1	10.6	13.3	16.3
62.5°	0.0	0.4	0.8	2.0	3.3	5.2	7.3	9.8	12.7	15.8	20.3
60°	0.0	0.4	0.9	2.3	3.8	6.1	8.4	11.5	14.7	19.4	24.2
57.5°	0.0	0.5	1.1	2.7	4.5	7.0	9.8	13.2	17.6	22.9	34.0
55°	0.0	0.5	1.3	3.0	5.1	7.8	11.2	14.9	20.6	27.9	46.3
52.5°	0.0	0.5	1.5	3.3	5.8	8.7	12.6	17.4	23.5	38.7	58.3
50°	0.0	0.6	1.7	3.6	6.4	9.8	14.0	19.9	28.2	49.2	82.0
47.5°	0.0	0.6	1.9	3.9	7.1	10.9	15.4	22.3	37.2	59.3	106.3
45°	0.0	0.6	2.1	4.4	7.7	11.9	17.4	24.6	45.8	80.1	129.8
42.5°	0.0	0.7	2.3	4.8	8.2	12.9	19.3	29.7	54.1	100.4	158.8
40°	0.0	0.7	2.4	5.2	8.9	13.9	21.1	36.6	65.1	119.8	187.7
37.5°	0.0	0.7	2.6	5.6	9.6	14.8	22.8	43.2	81.4	139.9	215.2
35°	0.0	0.7	2.7	5.9	10.3	16.0	24.4	49.4	96.9	163.3	241.4
32.5°	0.0	0.8	2.9	6.3	10.9	17.3	27.0	55.3	111.5	185.3	266.3
30°	0.0	0.8	3.0	6.6	11.5	18.4	31.7	62.3	125.1	205.9	289.6
27.5°	0.0	0.8	3.1	6.9	12.1	19.5	36.0	73.3	139.4	225.1	311.3
25°	0.0	0.8	3.3	7.2	12.6	20.6	40.0	83.5	155.0	242.9	331.5
22.5°	0.0	0.8	3.4	7.4	13.1	21.5	43.6	92.8	169.2	259.3	354.4
20°	0.0	0.8	3.4	7.6	13.5	22.3	46.9	101.1	182.1	274.0	375.0
17.5°	0.0	0.9	3.5	7.8	13.9	23.1	49.9	108.5	193.5	287.1	393.3
15°	0.0	0.9	3.6	8.0	14.2	23.7	52.4	115.0	203.5	298.5	409.3
12.5°	0.0	0.9	3.7	8.2	14.5	24.2	54.6	120.5	211.9	308.2	422.9
10°	0.0	0.9	3.7	8.3	14.7	24.7	56.3	125.0	218.9	316.2	434.1
7.5°	0.0	0.9	3.8	8.4	14.9	25.0	57.7	128.6	224.3	322.4	442.9
5°	0.0	0.9	3.8	8.4	15.0	25.3	58.7	131.1	228.2	326.9	449.2
2.5°	0.0	0.9	3.8	8.5	15.1	25.4	59.3	132.6	230.5	329.6	452.9
0°	0.0	0.9	3.8	8.5	15.1	25.5	59.5	133.1	231.3	330.5	454.2
-2.5°	0.0	0.9	3.8	8.5	15.1	25.4	59.3	132.6	230.5	329.6	452.9
-5°	0.0	0.9	3.8	8.4	15.0	25.3	58.7	131.1	228.2	326.9	449.2
-7.5°	0.0	0.9	3.8	8.4	14.9	25.0	57.7	128.6	224.3	322.4	442.9
-10°	0.0	0.9	3.7	8.3	14.7	24.7	56.3	125.0	218.9	316.2	434.1
-12.5°	0.0	0.9	3.7	8.2	14.5	24.2	54.6	120.5	211.9	308.2	422.9
-15°	0.0	0.9	3.6	8.0	14.2	23.7	52.4	115.0	203.5	298.5	409.3
-17.5°	0.0	0.9	3.5	7.8	13.9	23.1	49.9	108.5	193.5	287.1	393.3
-20°	0.0	0.8	3.4	7.6	13.5	22.3	46.9	101.1	182.1	274.0	375.0



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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	0.8	3.4	7.4	13.1	21.5	43.6	92.8	169.2	259.3	354.4
-25°	0.0	0.8	3.3	7.2	12.6	20.6	40.0	83.5	155.0	242.9	331.5
-27.5°	0.0	0.8	3.1	6.9	12.1	19.5	36.0	73.3	139.4	225.1	311.3
-30°	0.0	0.8	3.0	6.6	11.5	18.4	31.7	62.3	125.1	205.9	289.6
-32.5°	0.0	0.8	2.9	6.3	10.9	17.3	27.0	55.3	111.5	185.3	266.3
-35°	0.0	0.7	2.7	5.9	10.3	16.0	24.4	49.4	96.9	163.3	241.4
-37.5°	0.0	0.7	2.6	5.6	9.6	14.8	22.8	43.2	81.4	139.9	215.2
-40°	0.0	0.7	2.4	5.2	8.9	13.9	21.1	36.6	65.1	119.8	187.7
-42.5°	0.0	0.7	2.3	4.8	8.2	12.9	19.3	29.7	54.1	100.4	158.8
-45°	0.0	0.6	2.1	4.4	7.7	11.9	17.4	24.6	45.8	80.1	129.8
-47.5°	0.0	0.6	1.9	3.9	7.1	10.9	15.4	22.3	37.2	59.3	106.3
-50°	0.0	0.6	1.7	3.6	6.4	9.8	14.0	19.9	28.2	49.2	82.0
-52.5°	0.0	0.5	1.5	3.3	5.8	8.7	12.6	17.4	23.5	38.7	58.3
-55°	0.0	0.5	1.3	3.0	5.1	7.8	11.2	14.9	20.6	27.9	46.3
-57.5°	0.0	0.5	1.1	2.7	4.5	7.0	9.8	13.2	17.6	22.9	34.0
-60°	0.0	0.4	0.9	2.3	3.8	6.1	8.4	11.5	14.7	19.4	24.2
-62.5°	0.0	0.4	0.8	2.0	3.3	5.2	7.3	9.8	12.7	15.8	20.3
-65°	0.0	0.4	0.8	1.7	2.9	4.3	6.2	8.1	10.6	13.3	16.3
-67.5°	0.0	0.3	0.7	1.3	2.4	3.5	5.1	6.8	8.6	10.9	13.3
-70°	0.0	0.3	0.6	1.0	1.9	2.9	3.9	5.5	7.0	8.6	10.6
-72.5°	0.0	0.3	0.5	0.8	1.5	2.3	3.2	4.2	5.5	6.8	8.1
-75°	0.0	0.2	0.5	0.7	1.0	1.7	2.5	3.2	3.9	5.1	6.2
-77.5°	0.0	0.2	0.4	0.6	0.8	1.1	1.7	2.3	2.9	3.5	4.3
-80°	0.0	0.2	0.3	0.5	0.6	0.8	1.0	1.5	1.9	2.4	2.9
-82.5°	0.0	0.1	0.2	0.4	0.5	0.6	0.7	0.8	1.0	1.3	1.7
-85°	0.0	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.7	0.8
-87.5°	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.4
-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):

	-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°	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.7
85°	0.8	0.9	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.4	2.6
82.5°	2.0	2.3	2.7	3.0	3.3	3.6	3.9	4.4	4.8	5.2	5.6
80°	3.3	3.8	4.5	5.1	5.8	6.4	7.1	7.7	8.2	8.9	9.6
77.5°	5.2	6.1	7.0	7.8	8.7	9.8	10.9	11.9	12.9	13.9	14.8
75°	7.3	8.4	9.8	11.2	12.6	14.0	15.4	17.4	19.3	21.1	22.8
72.5°	9.8	11.5	13.2	14.9	17.4	19.9	22.3	24.6	29.7	36.6	43.2
70°	12.7	14.7	17.6	20.6	23.5	28.2	37.2	45.8	54.1	65.1	81.4
67.5°	15.8	19.4	22.9	27.9	38.7	49.2	59.3	80.1	100.4	119.8	139.9
65°	20.3	24.2	34.0	46.3	58.3	82.0	106.3	129.8	158.8	187.7	215.2
62.5°	24.7	37.0	50.9	70.0	98.5	126.2	159.7	194.3	227.5	259.7	290.4
60°	37.0	52.4	76.7	108.5	141.8	182.1	221.2	259.3	296.0	331.5	373.6
57.5°	50.9	76.7	111.9	150.8	195.6	239.4	282.3	323.7	371.9	419.8	466.1
55°	70.0	108.5	150.8	200.2	248.6	296.2	345.3	401.1	455.1	509.3	561.2
52.5°	98.5	141.8	195.6	248.6	300.8	357.0	418.8	479.9	540.5	598.4	652.8
50°	126.2	182.1	239.4	296.2	357.0	424.7	492.4	559.4	623.1	683.9	744.8
47.5°	159.7	221.2	282.3	345.3	418.8	492.4	565.7	635.6	702.8	772.2	839.4
45°	194.3	259.3	323.7	401.1	479.9	559.4	635.6	709.1	785.9	856.8	912.9
42.5°	227.5	296.0	371.9	455.1	540.5	623.1	702.8	785.9	862.3	924.0	957.1
40°	259.7	331.5	419.8	509.3	598.4	683.9	772.2	856.8	924.0	958.4	971.9
37.5°	290.4	373.6	466.1	561.2	652.8	744.8	839.4	912.9	957.1	971.9	1023.2
35°	319.6	413.5	511.7	609.8	704.7	804.9	890.8	953.5	969.4	1018.5	1237.4
32.5°	351.2	451.3	554.9	655.4	757.3	858.1	938.7	964.5	1004.5	1140.2	1735.1
30°	383.5	488.3	595.1	698.2	807.3	900.3	957.2	981.4	1045.9	1586.6	2165.7
27.5°	413.5	522.9	631.9	740.5	851.9	939.8	966.4	1017.8	1342.4	1993.5	2550.2
25°	441.3	554.9	665.9	780.5	885.9	955.6	981.2	1051.8	1711.4	2331.1	2710.6
22.5°	467.2	584.1	697.1	817.2	917.1	962.9	1010.3	1324.7	2031.2	2633.9	2807.2
20°	491.2	609.8	726.6	849.0	945.4	969.5	1036.7	1613.9	2297.5	2716.3	2892.7
17.5°	512.5	632.8	753.7	872.3	954.4	983.0	1095.6	1873.6	2537.2	2790.6	2968.6
15°	531.2	652.8	777.4	892.6	959.1	1002.2	1306.4	2073.4	2663.8	2855.3	3035.2
12.5°	547.0	669.9	797.7	909.9	963.2	1018.6	1487.0	2240.8	2716.0	2908.8	3074.3
10°	560.1	683.9	814.3	924.2	966.6	1032.2	1636.4	2379.4	2759.2	2953.3	3106.9
7.5°	570.3	694.9	827.4	935.4	969.2	1042.8	1753.5	2488.3	2793.3	2988.3	3132.6
5°	577.6	702.8	836.7	943.5	971.1	1050.5	1837.8	2566.7	2817.8	3013.5	3151.1
2.5°	582.0	707.5	842.3	948.3	972.2	1055.1	1888.5	2613.9	2832.6	3028.8	3162.3
0°	583.5	709.1	844.2	949.9	972.6	1056.6	1905.5	2629.7	2837.5	3033.9	3166.1
-2.5°	582.0	707.5	842.3	948.3	972.2	1055.1	1888.5	2613.9	2832.6	3028.8	3162.3
-5°	577.6	702.8	836.7	943.5	971.1	1050.5	1837.8	2566.7	2817.8	3013.5	3151.1
-7.5°	570.3	694.9	827.4	935.4	969.2	1042.8	1753.5	2488.3	2793.3	2988.3	3132.6
-10°	560.1	683.9	814.3	924.2	966.6	1032.2	1636.4	2379.4	2759.2	2953.3	3106.9
-12.5°	547.0	669.9	797.7	909.9	963.2	1018.6	1487.0	2240.8	2716.0	2908.8	3074.3
-15°	531.2	652.8	777.4	892.6	959.1	1002.2	1306.4	2073.4	2663.8	2855.3	3035.2
-17.5°	512.5	632.8	753.7	872.3	954.4	983.0	1095.6	1873.6	2537.2	2790.6	2968.6
-20°	491.2	609.8	726.6	849.0	945.4	969.5	1036.7	1613.9	2297.5	2716.3	2892.7



REPORT NUMBER: P413435 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0320L-57-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	467.2	584.1	697.1	817.2	917.1	962.9	1010.3	1324.7	2031.2	2633.9	2807.2
-25°	441.3	554.9	665.9	780.5	885.9	955.6	981.2	1051.8	1711.4	2331.1	2710.6
-27.5°	413.5	522.9	631.9	740.5	851.9	939.8	966.4	1017.8	1342.4	1993.5	2550.2
-30°	383.5	488.3	595.1	698.2	807.3	900.3	957.2	981.4	1045.9	1586.6	2165.7
-32.5°	351.2	451.3	554.9	655.4	757.3	858.1	938.7	964.5	1004.5	1140.2	1735.1
-35°	319.6	413.5	511.7	609.8	704.7	804.9	890.8	953.5	969.4	1018.5	1237.4
-37.5°	290.4	373.6	466.1	561.2	652.8	744.8	839.4	912.9	957.1	971.9	1023.2
-40°	259.7	331.5	419.8	509.3	598.4	683.9	772.2	856.8	924.0	958.4	971.9
-42.5°	227.5	296.0	371.9	455.1	540.5	623.1	702.8	785.9	862.3	924.0	957.1
-45°	194.3	259.3	323.7	401.1	479.9	559.4	635.6	709.1	785.9	856.8	912.9
-47.5°	159.7	221.2	282.3	345.3	418.8	492.4	565.7	635.6	702.8	772.2	839.4
-50°	126.2	182.1	239.4	296.2	357.0	424.7	492.4	559.4	623.1	683.9	744.8
-52.5°	98.5	141.8	195.6	248.6	300.8	357.0	418.8	479.9	540.5	598.4	652.8
-55°	70.0	108.5	150.8	200.2	248.6	296.2	345.3	401.1	455.1	509.3	561.2
-57.5°	50.9	76.7	111.9	150.8	195.6	239.4	282.3	323.7	371.9	419.8	466.1
-60°	37.0	52.4	76.7	108.5	141.8	182.1	221.2	259.3	296.0	331.5	373.6
-62.5°	24.7	37.0	50.9	70.0	98.5	126.2	159.7	194.3	227.5	259.7	290.4
-65°	20.3	24.2	34.0	46.3	58.3	82.0	106.3	129.8	158.8	187.7	215.2
-67.5°	15.8	19.4	22.9	27.9	38.7	49.2	59.3	80.1	100.4	119.8	139.9
-70°	12.7	14.7	17.6	20.6	23.5	28.2	37.2	45.8	54.1	65.1	81.4
-72.5°	9.8	11.5	13.2	14.9	17.4	19.9	22.3	24.6	29.7	36.6	43.2
-75°	7.3	8.4	9.8	11.2	12.6	14.0	15.4	17.4	19.3	21.1	22.8
-77.5°	5.2	6.1	7.0	7.8	8.7	9.8	10.9	11.9	12.9	13.9	14.8
-80°	3.3	3.8	4.5	5.1	5.8	6.4	7.1	7.7	8.2	8.9	9.6
-82.5°	2.0	2.3	2.7	3.0	3.3	3.6	3.9	4.4	4.8	5.2	5.6
-85°	0.8	0.9	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.4	2.6
-87.5°	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.7
-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: P413435 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0320L-57-80-2S-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°	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9
85°	2.7	2.9	3.0	3.1	3.3	3.4	3.4	3.5	3.6	3.7	3.7
82.5°	5.9	6.3	6.6	6.9	7.2	7.4	7.6	7.8	8.0	8.2	8.3
80°	10.3	10.9	11.5	12.1	12.6	13.1	13.5	13.9	14.2	14.5	14.7
77.5°	16.0	17.3	18.4	19.5	20.6	21.5	22.3	23.1	23.7	24.2	24.7
75°	24.4	27.0	31.7	36.0	40.0	43.6	46.9	49.9	52.4	54.6	56.3
72.5°	49.4	55.3	62.3	73.3	83.5	92.8	101.1	108.5	115.0	120.5	125.0
70°	96.9	111.5	125.1	139.4	155.0	169.2	182.1	193.5	203.5	211.9	218.9
67.5°	163.3	185.3	205.9	225.1	242.9	259.3	274.0	287.1	298.5	308.2	316.2
65°	241.4	266.3	289.6	311.3	331.5	354.4	375.0	393.3	409.3	422.9	434.1
62.5°	319.6	351.2	383.5	413.5	441.3	467.2	491.2	512.5	531.2	547.0	560.1
60°	413.5	451.3	488.3	522.9	554.9	584.1	609.8	632.8	652.8	669.9	683.9
57.5°	511.7	554.9	595.1	631.9	665.9	697.1	726.6	753.7	777.4	797.7	814.3
55°	609.8	655.4	698.2	740.5	780.5	817.2	849.0	872.3	892.6	909.9	924.2
52.5°	704.7	757.3	807.3	851.9	885.9	917.1	945.4	954.4	959.1	963.2	966.6
50°	804.9	858.1	900.3	939.8	955.6	962.9	969.5	983.0	1002.2	1018.6	1032.2
47.5°	890.8	938.7	957.2	966.4	981.2	1010.3	1036.7	1095.6	1306.4	1487.0	1636.4
45°	953.5	964.5	981.4	1017.8	1051.8	1324.7	1613.9	1873.6	2073.4	2240.8	2379.4
42.5°	969.4	1004.5	1045.9	1342.4	1711.4	2031.2	2297.5	2537.2	2663.8	2716.0	2759.2
40°	1018.5	1140.2	1586.6	1993.5	2331.1	2633.9	2716.3	2790.6	2855.3	2908.8	2953.3
37.5°	1237.4	1735.1	2165.7	2550.2	2710.6	2807.2	2892.7	2968.6	3035.2	3074.3	3106.9
35°	1785.0	2252.7	2645.2	2762.8	2871.8	2969.7	3051.4	3106.6	3155.6	3170.0	3174.3
32.5°	2252.7	2658.1	2789.3	2910.2	3022.2	3096.7	3162.0	3172.8	3179.2	3183.7	3186.5
30°	2645.2	2789.3	2923.2	3044.0	3124.3	3170.2	3178.7	3184.7	3188.8	3197.3	3217.5
27.5°	2762.8	2910.2	3044.0	3133.7	3172.5	3182.2	3187.7	3198.5	3228.5	3254.7	3393.5
25°	2871.8	3022.2	3124.3	3172.5	3183.0	3189.2	3214.1	3250.0	3429.0	3609.5	4325.8
22.5°	2969.7	3096.7	3170.2	3182.2	3189.2	3219.4	3293.9	3537.5	4308.6	5515.0	7656.9
20°	3051.4	3162.0	3178.7	3187.7	3214.1	3293.9	3574.3	4781.0	6684.5	11141.3	15441.5
17.5°	3106.6	3172.8	3184.7	3198.5	3250.0	3537.5	4781.0	7536.3	12947.7	20012.7	26858.4
15°	3155.6	3179.2	3188.8	3228.5	3429.0	4308.6	6684.5	12947.7	21580.6	32364.6	45591.4
12.5°	3170.0	3183.7	3197.3	3254.7	3609.5	5515.0	11141.3	20012.7	32364.6	48804.0	68375.3
10°	3174.3	3186.5	3217.5	3393.5	4325.8	7656.9	15441.5	26858.4	45591.4	68375.3	93169.5
7.5°	3177.7	3188.7	3233.6	3504.9	5077.5	10466.3	20458.3	36326.9	59035.2	86647.1	117309.2
5°	3180.1	3190.3	3245.3	3586.3	5628.4	12537.4	24185.6	43657.0	70362.7	102909.9	137988.2
2.5°	3181.6	3191.3	3252.4	3635.8	5965.0	13808.1	26485.5	48217.3	77494.9	113339.5	151650.9
0°	3182.1	3191.6	3254.8	3652.4	6078.2	14236.5	27263.4	49766.8	79934.7	116946.6	156467.3
-2.5°	3181.6	3191.3	3252.4	3635.8	5965.0	13808.1	26485.5	48217.3	77494.9	113339.5	151650.9
-5°	3180.1	3190.3	3245.3	3586.3	5628.4	12537.4	24185.6	43657.0	70362.7	102909.9	137988.2
-7.5°	3177.7	3188.7	3233.6	3504.9	5077.5	10466.3	20458.3	36326.9	59035.2	86647.1	117309.2
-10°	3174.3	3186.5	3217.5	3393.5	4325.8	7656.9	15441.5	26858.4	45591.4	68375.3	93169.5
-12.5°	3170.0	3183.7	3197.3	3254.7	3609.5	5515.0	11141.3	20012.7	32364.6	48804.0	68375.3
-15°	3155.6	3179.2	3188.8	3228.5	3429.0	4308.6	6684.5	12947.7	21580.6	32364.6	45591.4
-17.5°	3106.6	3172.8	3184.7	3198.5	3250.0	3537.5	4781.0	7536.3	12947.7	20012.7	26858.4
-20°	3051.4	3162.0	3178.7	3187.7	3214.1	3293.9	3574.3	4781.0	6684.5	11141.3	15441.5



REPORT NUMBER: P413435 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0320L-57-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	2969.7	3096.7	3170.2	3182.2	3189.2	3219.4	3293.9	3537.5	4308.6	5515.0	7656.9
-25°	2871.8	3022.2	3124.3	3172.5	3183.0	3189.2	3214.1	3250.0	3429.0	3609.5	4325.8
-27.5°	2762.8	2910.2	3044.0	3133.7	3172.5	3182.2	3187.7	3198.5	3228.5	3254.7	3393.5
-30°	2645.2	2789.3	2923.2	3044.0	3124.3	3170.2	3178.7	3184.7	3188.8	3197.3	3217.5
-32.5°	2252.7	2658.1	2789.3	2910.2	3022.2	3096.7	3162.0	3172.8	3179.2	3183.7	3186.5
-35°	1785.0	2252.7	2645.2	2762.8	2871.8	2969.7	3051.4	3106.6	3155.6	3170.0	3174.3
-37.5°	1237.4	1735.1	2165.7	2550.2	2710.6	2807.2	2892.7	2968.6	3035.2	3074.3	3106.9
-40°	1018.5	1140.2	1586.6	1993.5	2331.1	2633.9	2716.3	2790.6	2855.3	2908.8	2953.3
-42.5°	969.4	1004.5	1045.9	1342.4	1711.4	2031.2	2297.5	2537.2	2663.8	2716.0	2759.2
-45°	953.5	964.5	981.4	1017.8	1051.8	1324.7	1613.9	1873.6	2073.4	2240.8	2379.4
-47.5°	890.8	938.7	957.2	966.4	981.2	1010.3	1036.7	1095.6	1306.4	1487.0	1636.4
-50°	804.9	858.1	900.3	939.8	955.6	962.9	969.5	983.0	1002.2	1018.6	1032.2
-52.5°	704.7	757.3	807.3	851.9	885.9	917.1	945.4	954.4	959.1	963.2	966.6
-55°	609.8	655.4	698.2	740.5	780.5	817.2	849.0	872.3	892.6	909.9	924.2
-57.5°	511.7	554.9	595.1	631.9	665.9	697.1	726.6	753.7	777.4	797.7	814.3
-60°	413.5	451.3	488.3	522.9	554.9	584.1	609.8	632.8	652.8	669.9	683.9
-62.5°	319.6	351.2	383.5	413.5	441.3	467.2	491.2	512.5	531.2	547.0	560.1
-65°	241.4	266.3	289.6	311.3	331.5	354.4	375.0	393.3	409.3	422.9	434.1
-67.5°	163.3	185.3	205.9	225.1	242.9	259.3	274.0	287.1	298.5	308.2	316.2
-70°	96.9	111.5	125.1	139.4	155.0	169.2	182.1	193.5	203.5	211.9	218.9
-72.5°	49.4	55.3	62.3	73.3	83.5	92.8	101.1	108.5	115.0	120.5	125.0
-75°	24.4	27.0	31.7	36.0	40.0	43.6	46.9	49.9	52.4	54.6	56.3
-77.5°	16.0	17.3	18.4	19.5	20.6	21.5	22.3	23.1	23.7	24.2	24.7
-80°	10.3	10.9	11.5	12.1	12.6	13.1	13.5	13.9	14.2	14.5	14.7
-82.5°	5.9	6.3	6.6	6.9	7.2	7.4	7.6	7.8	8.0	8.2	8.3
-85°	2.7	2.9	3.0	3.1	3.3	3.4	3.4	3.5	3.6	3.7	3.7
-87.5°	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9
-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: P413435 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0320L-57-80-2S-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°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.7	3.7	3.6	3.5
82.5°	8.4	8.4	8.5	8.5	8.5	8.4	8.4	8.3	8.2	8.0	7.8
80°	14.9	15.0	15.1	15.1	15.1	15.0	14.9	14.7	14.5	14.2	13.9
77.5°	25.0	25.3	25.4	25.5	25.4	25.3	25.0	24.7	24.2	23.7	23.1
75°	57.7	58.7	59.3	59.5	59.3	58.7	57.7	56.3	54.6	52.4	49.9
72.5°	128.6	131.1	132.6	133.1	132.6	131.1	128.6	125.0	120.5	115.0	108.5
70°	224.3	228.2	230.5	231.3	230.5	228.2	224.3	218.9	211.9	203.5	193.5
67.5°	322.4	326.9	329.6	330.5	329.6	326.9	322.4	316.2	308.2	298.5	287.1
65°	442.9	449.2	452.9	454.2	452.9	449.2	442.9	434.1	422.9	409.3	393.3
62.5°	570.3	577.6	582.0	583.5	582.0	577.6	570.3	560.1	547.0	531.2	512.5
60°	694.9	702.8	707.5	709.1	707.5	702.8	694.9	683.9	669.9	652.8	632.8
57.5°	827.4	836.7	842.3	844.2	842.3	836.7	827.4	814.3	797.7	777.4	753.7
55°	935.4	943.5	948.3	949.9	948.3	943.5	935.4	924.2	909.9	892.6	872.3
52.5°	969.2	971.1	972.2	972.6	972.2	971.1	969.2	966.6	963.2	959.1	954.4
50°	1042.8	1050.5	1055.1	1056.6	1055.1	1050.5	1042.8	1032.2	1018.6	1002.2	983.0
47.5°	1753.5	1837.8	1888.5	1905.5	1888.5	1837.8	1753.5	1636.4	1487.0	1306.4	1095.6
45°	2488.3	2566.7	2613.9	2629.7	2613.9	2566.7	2488.3	2379.4	2240.8	2073.4	1873.6
42.5°	2793.3	2817.8	2832.6	2837.5	2832.6	2817.8	2793.3	2759.2	2716.0	2663.8	2537.2
40°	2988.3	3013.5	3028.8	3033.9	3028.8	3013.5	2988.3	2953.3	2908.8	2855.3	2790.6
37.5°	3132.6	3151.1	3162.3	3166.1	3162.3	3151.1	3132.6	3106.9	3074.3	3035.2	2968.6
35°	3177.7	3180.1	3181.6	3182.1	3181.6	3180.1	3177.7	3174.3	3170.0	3155.6	3106.6
32.5°	3188.7	3190.3	3191.3	3191.6	3191.3	3190.3	3188.7	3186.5	3183.7	3179.2	3172.8
30°	3233.6	3245.3	3252.4	3254.8	3252.4	3245.3	3233.6	3217.5	3197.3	3188.8	3184.7
27.5°	3504.9	3586.3	3635.8	3652.4	3635.8	3586.3	3504.9	3393.5	3254.7	3228.5	3198.5
25°	5077.5	5628.4	5965.0	6078.2	5965.0	5628.4	5077.5	4325.8	3609.5	3429.0	3250.0
22.5°	10466.3	12537.4	13808.1	14236.5	13808.1	12537.4	10466.3	7656.9	5515.0	4308.6	3537.5
20°	20458.3	24185.6	26485.5	27263.4	26485.5	24185.6	20458.3	15441.5	11141.3	6684.5	4781.0
17.5°	36326.9	43657.0	48217.3	49766.8	48217.3	43657.0	36326.9	26858.4	20012.7	12947.7	7536.3
15°	59035.2	70362.7	77494.9	79934.7	77494.9	70362.7	59035.2	45591.4	32364.6	21580.6	12947.7
12.5°	86647.1	102909.9	113339.5	116946.6	113339.5	102909.9	86647.1	68375.3	48804.0	32364.6	20012.7
10°	117309.2	137988.2	151650.9	156467.3	151650.9	137988.2	117309.2	93169.5	68375.3	45591.4	26858.4
7.5°	147118.1	173290.6	192906.3	199555.0	192906.3	173290.6	147118.1	117309.2	86647.1	59035.2	36326.9
5°	173290.6	206697.8	226610.0	233541.9	226610.0	206697.8	173290.6	137988.2	102909.9	70362.7	43657.0
2.5°	192906.3	226610.0	250941.3	264457.2	250941.3	226610.0	192906.3	151650.9	113339.5	77494.9	48217.3
0°	199555.0	233541.9	264457.2	283429.6	264457.2	233541.9	199555.0	156467.3	116946.6	79934.7	49766.8
-2.5°	192906.3	226610.0	250941.3	264457.2	250941.3	226610.0	192906.3	151650.9	113339.5	77494.9	48217.3
-5°	173290.6	206697.8	226610.0	233541.9	226610.0	206697.8	173290.6	137988.2	102909.9	70362.7	43657.0
-7.5°	147118.1	173290.6	192906.3	199555.0	192906.3	173290.6	147118.1	117309.2	86647.1	59035.2	36326.9
-10°	117309.2	137988.2	151650.9	156467.3	151650.9	137988.2	117309.2	93169.5	68375.3	45591.4	26858.4
-12.5°	86647.1	102909.9	113339.5	116946.6	113339.5	102909.9	86647.1	68375.3	48804.0	32364.6	20012.7
-15°	59035.2	70362.7	77494.9	79934.7	77494.9	70362.7	59035.2	45591.4	32364.6	21580.6	12947.7
-17.5°	36326.9	43657.0	48217.3	49766.8	48217.3	43657.0	36326.9	26858.4	20012.7	12947.7	7536.3
-20°	20458.3	24185.6	26485.5	27263.4	26485.5	24185.6	20458.3	15441.5	11141.3	6684.5	4781.0



REPORT NUMBER: P413435 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-08-0320L-57-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	10466.3	12537.4	13808.1	14236.5	13808.1	12537.4	10466.3	7656.9	5515.0	4308.6	3537.5
-25°	5077.5	5628.4	5965.0	6078.2	5965.0	5628.4	5077.5	4325.8	3609.5	3429.0	3250.0
-27.5°	3504.9	3586.3	3635.8	3652.4	3635.8	3586.3	3504.9	3393.5	3254.7	3228.5	3198.5
-30°	3233.6	3245.3	3252.4	3254.8	3252.4	3245.3	3233.6	3217.5	3197.3	3188.8	3184.7
-32.5°	3188.7	3190.3	3191.3	3191.6	3191.3	3190.3	3188.7	3186.5	3183.7	3179.2	3172.8
-35°	3177.7	3180.1	3181.6	3182.1	3181.6	3180.1	3177.7	3174.3	3170.0	3155.6	3106.6
-37.5°	3132.6	3151.1	3162.3	3166.1	3162.3	3151.1	3132.6	3106.9	3074.3	3035.2	2968.6
-40°	2988.3	3013.5	3028.8	3033.9	3028.8	3013.5	2988.3	2953.3	2908.8	2855.3	2790.6
-42.5°	2793.3	2817.8	2832.6	2837.5	2832.6	2817.8	2793.3	2759.2	2716.0	2663.8	2537.2
-45°	2488.3	2566.7	2613.9	2629.7	2613.9	2566.7	2488.3	2379.4	2240.8	2073.4	1873.6
-47.5°	1753.5	1837.8	1888.5	1905.5	1888.5	1837.8	1753.5	1636.4	1487.0	1306.4	1095.6
-50°	1042.8	1050.5	1055.1	1056.6	1055.1	1050.5	1042.8	1032.2	1018.6	1002.2	983.0
-52.5°	969.2	971.1	972.2	972.6	972.2	971.1	969.2	966.6	963.2	959.1	954.4
-55°	935.4	943.5	948.3	949.9	948.3	943.5	935.4	924.2	909.9	892.6	872.3
-57.5°	827.4	836.7	842.3	844.2	842.3	836.7	827.4	814.3	797.7	777.4	753.7
-60°	694.9	702.8	707.5	709.1	707.5	702.8	694.9	683.9	669.9	652.8	632.8
-62.5°	570.3	577.6	582.0	583.5	582.0	577.6	570.3	560.1	547.0	531.2	512.5
-65°	442.9	449.2	452.9	454.2	452.9	449.2	442.9	434.1	422.9	409.3	393.3
-67.5°	322.4	326.9	329.6	330.5	329.6	326.9	322.4	316.2	308.2	298.5	287.1
-70°	224.3	228.2	230.5	231.3	230.5	228.2	224.3	218.9	211.9	203.5	193.5
-72.5°	128.6	131.1	132.6	133.1	132.6	131.1	128.6	125.0	120.5	115.0	108.5
-75°	57.7	58.7	59.3	59.5	59.3	58.7	57.7	56.3	54.6	52.4	49.9
-77.5°	25.0	25.3	25.4	25.5	25.4	25.3	25.0	24.7	24.2	23.7	23.1
-80°	14.9	15.0	15.1	15.1	15.1	15.0	14.9	14.7	14.5	14.2	13.9
-82.5°	8.4	8.4	8.5	8.5	8.5	8.4	8.4	8.3	8.2	8.0	7.8
-85°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.7	3.7	3.6	3.5
-87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
-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: P413435 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0320L-57-80-2S-HEG

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°	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.6
85°	3.4	3.4	3.3	3.1	3.0	2.9	2.7	2.6	2.4	2.3	2.1
82.5°	7.6	7.4	7.2	6.9	6.6	6.3	5.9	5.6	5.2	4.8	4.4
80°	13.5	13.1	12.6	12.1	11.5	10.9	10.3	9.6	8.9	8.2	7.7
77.5°	22.3	21.5	20.6	19.5	18.4	17.3	16.0	14.8	13.9	12.9	11.9
75°	46.9	43.6	40.0	36.0	31.7	27.0	24.4	22.8	21.1	19.3	17.4
72.5°	101.1	92.8	83.5	73.3	62.3	55.3	49.4	43.2	36.6	29.7	24.6
70°	182.1	169.2	155.0	139.4	125.1	111.5	96.9	81.4	65.1	54.1	45.8
67.5°	274.0	259.3	242.9	225.1	205.9	185.3	163.3	139.9	119.8	100.4	80.1
65°	375.0	354.4	331.5	311.3	289.6	266.3	241.4	215.2	187.7	158.8	129.8
62.5°	491.2	467.2	441.3	413.5	383.5	351.2	319.6	290.4	259.7	227.5	194.3
60°	609.8	584.1	554.9	522.9	488.3	451.3	413.5	373.6	331.5	296.0	259.3
57.5°	726.6	697.1	665.9	631.9	595.1	554.9	511.7	466.1	419.8	371.9	323.7
55°	849.0	817.2	780.5	740.5	698.2	655.4	609.8	561.2	509.3	455.1	401.1
52.5°	945.4	917.1	885.9	851.9	807.3	757.3	704.7	652.8	598.4	540.5	479.9
50°	969.5	962.9	955.6	939.8	900.3	858.1	804.9	744.8	683.9	623.1	559.4
47.5°	1036.7	1010.3	981.2	966.4	957.2	938.7	890.8	839.4	772.2	702.8	635.6
45°	1613.9	1324.7	1051.8	1017.8	981.4	964.5	953.5	912.9	856.8	785.9	709.1
42.5°	2297.5	2031.2	1711.4	1342.4	1045.9	1004.5	969.4	957.1	924.0	862.3	785.9
40°	2716.3	2633.9	2331.1	1993.5	1586.6	1140.2	1018.5	971.9	958.4	924.0	856.8
37.5°	2892.7	2807.2	2710.6	2550.2	2165.7	1735.1	1237.4	1023.2	971.9	957.1	912.9
35°	3051.4	2969.7	2871.8	2762.8	2645.2	2252.7	1785.0	1237.4	1018.5	969.4	953.5
32.5°	3162.0	3096.7	3022.2	2910.2	2789.3	2658.1	2252.7	1735.1	1140.2	1004.5	964.5
30°	3178.7	3170.2	3124.3	3044.0	2923.2	2789.3	2645.2	2165.7	1586.6	1045.9	981.4
27.5°	3187.7	3182.2	3172.5	3133.7	3044.0	2910.2	2762.8	2550.2	1993.5	1342.4	1017.8
25°	3214.1	3189.2	3183.0	3172.5	3124.3	3022.2	2871.8	2710.6	2331.1	1711.4	1051.8
22.5°	3293.9	3219.4	3189.2	3182.2	3170.2	3096.7	2969.7	2807.2	2633.9	2031.2	1324.7
20°	3574.3	3293.9	3214.1	3187.7	3178.7	3162.0	3051.4	2892.7	2716.3	2297.5	1613.9
17.5°	4781.0	3537.5	3250.0	3198.5	3184.7	3172.8	3106.6	2968.6	2790.6	2537.2	1873.6
15°	6684.5	4308.6	3429.0	3228.5	3188.8	3179.2	3155.6	3035.2	2855.3	2663.8	2073.4
12.5°	11141.3	5515.0	3609.5	3254.7	3197.3	3183.7	3170.0	3074.3	2908.8	2716.0	2240.8
10°	15441.5	7656.9	4325.8	3393.5	3217.5	3186.5	3174.3	3106.9	2953.3	2759.2	2379.4
7.5°	20458.3	10466.3	5077.5	3504.9	3233.6	3188.7	3177.7	3132.6	2988.3	2793.3	2488.3
5°	24185.6	12537.4	5628.4	3586.3	3245.3	3190.3	3180.1	3151.1	3013.5	2817.8	2566.7
2.5°	26485.5	13808.1	5965.0	3635.8	3252.4	3191.3	3181.6	3162.3	3028.8	2832.6	2613.9
0°	27263.4	14236.5	6078.2	3652.4	3254.8	3191.6	3182.1	3166.1	3033.9	2837.5	2629.7
-2.5°	26485.5	13808.1	5965.0	3635.8	3252.4	3191.3	3181.6	3162.3	3028.8	2832.6	2613.9
-5°	24185.6	12537.4	5628.4	3586.3	3245.3	3190.3	3180.1	3151.1	3013.5	2817.8	2566.7
-7.5°	20458.3	10466.3	5077.5	3504.9	3233.6	3188.7	3177.7	3132.6	2988.3	2793.3	2488.3
-10°	15441.5	7656.9	4325.8	3393.5	3217.5	3186.5	3174.3	3106.9	2953.3	2759.2	2379.4
-12.5°	11141.3	5515.0	3609.5	3254.7	3197.3	3183.7	3170.0	3074.3	2908.8	2716.0	2240.8
-15°	6684.5	4308.6	3429.0	3228.5	3188.8	3179.2	3155.6	3035.2	2855.3	2663.8	2073.4
-17.5°	4781.0	3537.5	3250.0	3198.5	3184.7	3172.8	3106.6	2968.6	2790.6	2537.2	1873.6
-20°	3574.3	3293.9	3214.1	3187.7	3178.7	3162.0	3051.4	2892.7	2716.3	2297.5	1613.9



REPORT NUMBER: P413435 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0320L-57-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	3293.9	3219.4	3189.2	3182.2	3170.2	3096.7	2969.7	2807.2	2633.9	2031.2	1324.7
-25°	3214.1	3189.2	3183.0	3172.5	3124.3	3022.2	2871.8	2710.6	2331.1	1711.4	1051.8
-27.5°	3187.7	3182.2	3172.5	3133.7	3044.0	2910.2	2762.8	2550.2	1993.5	1342.4	1017.8
-30°	3178.7	3170.2	3124.3	3044.0	2923.2	2789.3	2645.2	2165.7	1586.6	1045.9	981.4
-32.5°	3162.0	3096.7	3022.2	2910.2	2789.3	2658.1	2252.7	1735.1	1140.2	1004.5	964.5
-35°	3051.4	2969.7	2871.8	2762.8	2645.2	2252.7	1785.0	1237.4	1018.5	969.4	953.5
-37.5°	2892.7	2807.2	2710.6	2550.2	2165.7	1735.1	1237.4	1023.2	971.9	957.1	912.9
-40°	2716.3	2633.9	2331.1	1993.5	1586.6	1140.2	1018.5	971.9	958.4	924.0	856.8
-42.5°	2297.5	2031.2	1711.4	1342.4	1045.9	1004.5	969.4	957.1	924.0	862.3	785.9
-45°	1613.9	1324.7	1051.8	1017.8	981.4	964.5	953.5	912.9	856.8	785.9	709.1
-47.5°	1036.7	1010.3	981.2	966.4	957.2	938.7	890.8	839.4	772.2	702.8	635.6
-50°	969.5	962.9	955.6	939.8	900.3	858.1	804.9	744.8	683.9	623.1	559.4
-52.5°	945.4	917.1	885.9	851.9	807.3	757.3	704.7	652.8	598.4	540.5	479.9
-55°	849.0	817.2	780.5	740.5	698.2	655.4	609.8	561.2	509.3	455.1	401.1
-57.5°	726.6	697.1	665.9	631.9	595.1	554.9	511.7	466.1	419.8	371.9	323.7
-60°	609.8	584.1	554.9	522.9	488.3	451.3	413.5	373.6	331.5	296.0	259.3
-62.5°	491.2	467.2	441.3	413.5	383.5	351.2	319.6	290.4	259.7	227.5	194.3
-65°	375.0	354.4	331.5	311.3	289.6	266.3	241.4	215.2	187.7	158.8	129.8
-67.5°	274.0	259.3	242.9	225.1	205.9	185.3	163.3	139.9	119.8	100.4	80.1
-70°	182.1	169.2	155.0	139.4	125.1	111.5	96.9	81.4	65.1	54.1	45.8
-72.5°	101.1	92.8	83.5	73.3	62.3	55.3	49.4	43.2	36.6	29.7	24.6
-75°	46.9	43.6	40.0	36.0	31.7	27.0	24.4	22.8	21.1	19.3	17.4
-77.5°	22.3	21.5	20.6	19.5	18.4	17.3	16.0	14.8	13.9	12.9	11.9
-80°	13.5	13.1	12.6	12.1	11.5	10.9	10.3	9.6	8.9	8.2	7.7
-82.5°	7.6	7.4	7.2	6.9	6.6	6.3	5.9	5.6	5.2	4.8	4.4
-85°	3.4	3.4	3.3	3.1	3.0	2.9	2.7	2.6	2.4	2.3	2.1
-87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.6
-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: P413435 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-0320L-57-80-2S-HEG

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°	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3
85°	1.9	1.7	1.5	1.3	1.1	0.9	0.8	0.8	0.7	0.6	0.5
82.5°	3.9	3.6	3.3	3.0	2.7	2.3	2.0	1.7	1.3	1.0	0.8
80°	7.1	6.4	5.8	5.1	4.5	3.8	3.3	2.9	2.4	1.9	1.5
77.5°	10.9	9.8	8.7	7.8	7.0	6.1	5.2	4.3	3.5	2.9	2.3
75°	15.4	14.0	12.6	11.2	9.8	8.4	7.3	6.2	5.1	3.9	3.2
72.5°	22.3	19.9	17.4	14.9	13.2	11.5	9.8	8.1	6.8	5.5	4.2
70°	37.2	28.2	23.5	20.6	17.6	14.7	12.7	10.6	8.6	7.0	5.5
67.5°	59.3	49.2	38.7	27.9	22.9	19.4	15.8	13.3	10.9	8.6	6.8
65°	106.3	82.0	58.3	46.3	34.0	24.2	20.3	16.3	13.3	10.6	8.1
62.5°	159.7	126.2	98.5	70.0	50.9	37.0	24.7	20.3	15.8	12.7	9.8
60°	221.2	182.1	141.8	108.5	76.7	52.4	37.0	24.2	19.4	14.7	11.5
57.5°	282.3	239.4	195.6	150.8	111.9	76.7	50.9	34.0	22.9	17.6	13.2
55°	345.3	296.2	248.6	200.2	150.8	108.5	70.0	46.3	27.9	20.6	14.9
52.5°	418.8	357.0	300.8	248.6	195.6	141.8	98.5	58.3	38.7	23.5	17.4
50°	492.4	424.7	357.0	296.2	239.4	182.1	126.2	82.0	49.2	28.2	19.9
47.5°	565.7	492.4	418.8	345.3	282.3	221.2	159.7	106.3	59.3	37.2	22.3
45°	635.6	559.4	479.9	401.1	323.7	259.3	194.3	129.8	80.1	45.8	24.6
42.5°	702.8	623.1	540.5	455.1	371.9	296.0	227.5	158.8	100.4	54.1	29.7
40°	772.2	683.9	598.4	509.3	419.8	331.5	259.7	187.7	119.8	65.1	36.6
37.5°	839.4	744.8	652.8	561.2	466.1	373.6	290.4	215.2	139.9	81.4	43.2
35°	890.8	804.9	704.7	609.8	511.7	413.5	319.6	241.4	163.3	96.9	49.4
32.5°	938.7	858.1	757.3	655.4	554.9	451.3	351.2	266.3	185.3	111.5	55.3
30°	957.2	900.3	807.3	698.2	595.1	488.3	383.5	289.6	205.9	125.1	62.3
27.5°	966.4	939.8	851.9	740.5	631.9	522.9	413.5	311.3	225.1	139.4	73.3
25°	981.2	955.6	885.9	780.5	665.9	554.9	441.3	331.5	242.9	155.0	83.5
22.5°	1010.3	962.9	917.1	817.2	697.1	584.1	467.2	354.4	259.3	169.2	92.8
20°	1036.7	969.5	945.4	849.0	726.6	609.8	491.2	375.0	274.0	182.1	101.1
17.5°	1095.6	983.0	954.4	872.3	753.7	632.8	512.5	393.3	287.1	193.5	108.5
15°	1306.4	1002.2	959.1	892.6	777.4	652.8	531.2	409.3	298.5	203.5	115.0
12.5°	1487.0	1018.6	963.2	909.9	797.7	669.9	547.0	422.9	308.2	211.9	120.5
10°	1636.4	1032.2	966.6	924.2	814.3	683.9	560.1	434.1	316.2	218.9	125.0
7.5°	1753.5	1042.8	969.2	935.4	827.4	694.9	570.3	442.9	322.4	224.3	128.6
5°	1837.8	1050.5	971.1	943.5	836.7	702.8	577.6	449.2	326.9	228.2	131.1
2.5°	1888.5	1055.1	972.2	948.3	842.3	707.5	582.0	452.9	329.6	230.5	132.6
0°	1905.5	1056.6	972.6	949.9	844.2	709.1	583.5	454.2	330.5	231.3	133.1
-2.5°	1888.5	1055.1	972.2	948.3	842.3	707.5	582.0	452.9	329.6	230.5	132.6
-5°	1837.8	1050.5	971.1	943.5	836.7	702.8	577.6	449.2	326.9	228.2	131.1
-7.5°	1753.5	1042.8	969.2	935.4	827.4	694.9	570.3	442.9	322.4	224.3	128.6
-10°	1636.4	1032.2	966.6	924.2	814.3	683.9	560.1	434.1	316.2	218.9	125.0
-12.5°	1487.0	1018.6	963.2	909.9	797.7	669.9	547.0	422.9	308.2	211.9	120.5
-15°	1306.4	1002.2	959.1	892.6	777.4	652.8	531.2	409.3	298.5	203.5	115.0
-17.5°	1095.6	983.0	954.4	872.3	753.7	632.8	512.5	393.3	287.1	193.5	108.5
-20°	1036.7	969.5	945.4	849.0	726.6	609.8	491.2	375.0	274.0	182.1	101.1



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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°	1010.3	962.9	917.1	817.2	697.1	584.1	467.2	354.4	259.3	169.2	92.8
-25°	981.2	955.6	885.9	780.5	665.9	554.9	441.3	331.5	242.9	155.0	83.5
-27.5°	966.4	939.8	851.9	740.5	631.9	522.9	413.5	311.3	225.1	139.4	73.3
-30°	957.2	900.3	807.3	698.2	595.1	488.3	383.5	289.6	205.9	125.1	62.3
-32.5°	938.7	858.1	757.3	655.4	554.9	451.3	351.2	266.3	185.3	111.5	55.3
-35°	890.8	804.9	704.7	609.8	511.7	413.5	319.6	241.4	163.3	96.9	49.4
-37.5°	839.4	744.8	652.8	561.2	466.1	373.6	290.4	215.2	139.9	81.4	43.2
-40°	772.2	683.9	598.4	509.3	419.8	331.5	259.7	187.7	119.8	65.1	36.6
-42.5°	702.8	623.1	540.5	455.1	371.9	296.0	227.5	158.8	100.4	54.1	29.7
-45°	635.6	559.4	479.9	401.1	323.7	259.3	194.3	129.8	80.1	45.8	24.6
-47.5°	565.7	492.4	418.8	345.3	282.3	221.2	159.7	106.3	59.3	37.2	22.3
-50°	492.4	424.7	357.0	296.2	239.4	182.1	126.2	82.0	49.2	28.2	19.9
-52.5°	418.8	357.0	300.8	248.6	195.6	141.8	98.5	58.3	38.7	23.5	17.4
-55°	345.3	296.2	248.6	200.2	150.8	108.5	70.0	46.3	27.9	20.6	14.9
-57.5°	282.3	239.4	195.6	150.8	111.9	76.7	50.9	34.0	22.9	17.6	13.2
-60°	221.2	182.1	141.8	108.5	76.7	52.4	37.0	24.2	19.4	14.7	11.5
-62.5°	159.7	126.2	98.5	70.0	50.9	37.0	24.7	20.3	15.8	12.7	9.8
-65°	106.3	82.0	58.3	46.3	34.0	24.2	20.3	16.3	13.3	10.6	8.1
-67.5°	59.3	49.2	38.7	27.9	22.9	19.4	15.8	13.3	10.9	8.6	6.8
-70°	37.2	28.2	23.5	20.6	17.6	14.7	12.7	10.6	8.6	7.0	5.5
-72.5°	22.3	19.9	17.4	14.9	13.2	11.5	9.8	8.1	6.8	5.5	4.2
-75°	15.4	14.0	12.6	11.2	9.8	8.4	7.3	6.2	5.1	3.9	3.2
-77.5°	10.9	9.8	8.7	7.8	7.0	6.1	5.2	4.3	3.5	2.9	2.3
-80°	7.1	6.4	5.8	5.1	4.5	3.8	3.3	2.9	2.4	1.9	1.5
-82.5°	3.9	3.6	3.3	3.0	2.7	2.3	2.0	1.7	1.3	1.0	0.8
-85°	1.9	1.7	1.5	1.3	1.1	0.9	0.8	0.8	0.7	0.6	0.5
-87.5°	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3
-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):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.2	0.2	0.2	0.1	0.1	0.0	0.0
85°	0.5	0.4	0.3	0.2	0.2	0.1	0.0
82.5°	0.7	0.6	0.5	0.4	0.2	0.1	0.0
80°	1.0	0.8	0.6	0.5	0.3	0.2	0.0
77.5°	1.7	1.1	0.8	0.6	0.4	0.2	0.0
75°	2.5	1.7	1.0	0.7	0.5	0.2	0.0
72.5°	3.2	2.3	1.5	0.8	0.5	0.3	0.0
70°	3.9	2.9	1.9	1.0	0.6	0.3	0.0
67.5°	5.1	3.5	2.4	1.3	0.7	0.3	0.0
65°	6.2	4.3	2.9	1.7	0.8	0.4	0.0
62.5°	7.3	5.2	3.3	2.0	0.8	0.4	0.0
60°	8.4	6.1	3.8	2.3	0.9	0.4	0.0
57.5°	9.8	7.0	4.5	2.7	1.1	0.5	0.0
55°	11.2	7.8	5.1	3.0	1.3	0.5	0.0
52.5°	12.6	8.7	5.8	3.3	1.5	0.5	0.0
50°	14.0	9.8	6.4	3.6	1.7	0.6	0.0
47.5°	15.4	10.9	7.1	3.9	1.9	0.6	0.0
45°	17.4	11.9	7.7	4.4	2.1	0.6	0.0
42.5°	19.3	12.9	8.2	4.8	2.3	0.7	0.0
40°	21.1	13.9	8.9	5.2	2.4	0.7	0.0
37.5°	22.8	14.8	9.6	5.6	2.6	0.7	0.0
35°	24.4	16.0	10.3	5.9	2.7	0.7	0.0
32.5°	27.0	17.3	10.9	6.3	2.9	0.8	0.0
30°	31.7	18.4	11.5	6.6	3.0	0.8	0.0
27.5°	36.0	19.5	12.1	6.9	3.1	0.8	0.0
25°	40.0	20.6	12.6	7.2	3.3	0.8	0.0
22.5°	43.6	21.5	13.1	7.4	3.4	0.8	0.0
20°	46.9	22.3	13.5	7.6	3.4	0.8	0.0
17.5°	49.9	23.1	13.9	7.8	3.5	0.9	0.0
15°	52.4	23.7	14.2	8.0	3.6	0.9	0.0
12.5°	54.6	24.2	14.5	8.2	3.7	0.9	0.0
10°	56.3	24.7	14.7	8.3	3.7	0.9	0.0
7.5°	57.7	25.0	14.9	8.4	3.8	0.9	0.0
5°	58.7	25.3	15.0	8.4	3.8	0.9	0.0
2.5°	59.3	25.4	15.1	8.5	3.8	0.9	0.0
0°	59.5	25.5	15.1	8.5	3.8	0.9	0.0
-2.5°	59.3	25.4	15.1	8.5	3.8	0.9	0.0
-5°	58.7	25.3	15.0	8.4	3.8	0.9	0.0
-7.5°	57.7	25.0	14.9	8.4	3.8	0.9	0.0
-10°	56.3	24.7	14.7	8.3	3.7	0.9	0.0
-12.5°	54.6	24.2	14.5	8.2	3.7	0.9	0.0
-15°	52.4	23.7	14.2	8.0	3.6	0.9	0.0
-17.5°	49.9	23.1	13.9	7.8	3.5	0.9	0.0
-20°	46.9	22.3	13.5	7.6	3.4	0.8	0.0



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CATALOG NUMBER: EPH-08-0320L-57-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	43.6	21.5	13.1	7.4	3.4	0.8	0.0
-25°	40.0	20.6	12.6	7.2	3.3	0.8	0.0
-27.5°	36.0	19.5	12.1	6.9	3.1	0.8	0.0
-30°	31.7	18.4	11.5	6.6	3.0	0.8	0.0
-32.5°	27.0	17.3	10.9	6.3	2.9	0.8	0.0
-35°	24.4	16.0	10.3	5.9	2.7	0.7	0.0
-37.5°	22.8	14.8	9.6	5.6	2.6	0.7	0.0
-40°	21.1	13.9	8.9	5.2	2.4	0.7	0.0
-42.5°	19.3	12.9	8.2	4.8	2.3	0.7	0.0
-45°	17.4	11.9	7.7	4.4	2.1	0.6	0.0
-47.5°	15.4	10.9	7.1	3.9	1.9	0.6	0.0
-50°	14.0	9.8	6.4	3.6	1.7	0.6	0.0
-52.5°	12.6	8.7	5.8	3.3	1.5	0.5	0.0
-55°	11.2	7.8	5.1	3.0	1.3	0.5	0.0
-57.5°	9.8	7.0	4.5	2.7	1.1	0.5	0.0
-60°	8.4	6.1	3.8	2.3	0.9	0.4	0.0
-62.5°	7.3	5.2	3.3	2.0	0.8	0.4	0.0
-65°	6.2	4.3	2.9	1.7	0.8	0.4	0.0
-67.5°	5.1	3.5	2.4	1.3	0.7	0.3	0.0
-70°	3.9	2.9	1.9	1.0	0.6	0.3	0.0
-72.5°	3.2	2.3	1.5	0.8	0.5	0.3	0.0
-75°	2.5	1.7	1.0	0.7	0.5	0.2	0.0
-77.5°	1.7	1.1	0.8	0.6	0.4	0.2	0.0
-80°	1.0	0.8	0.6	0.5	0.3	0.2	0.0
-82.5°	0.7	0.6	0.5	0.4	0.2	0.1	0.0
-85°	0.5	0.4	0.3	0.2	0.2	0.1	0.0
-87.5°	0.2	0.2	0.2	0.1	0.1	0.0	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)