

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: EPHEBUS

Report Number: P413411 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-08-0320L-40-80-2S-HEG**

Issue Date: 10/30/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P413411 (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-40-80-2S-HEG  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 2S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	51124.8 lumens	Max Intensity:	283131.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	150.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

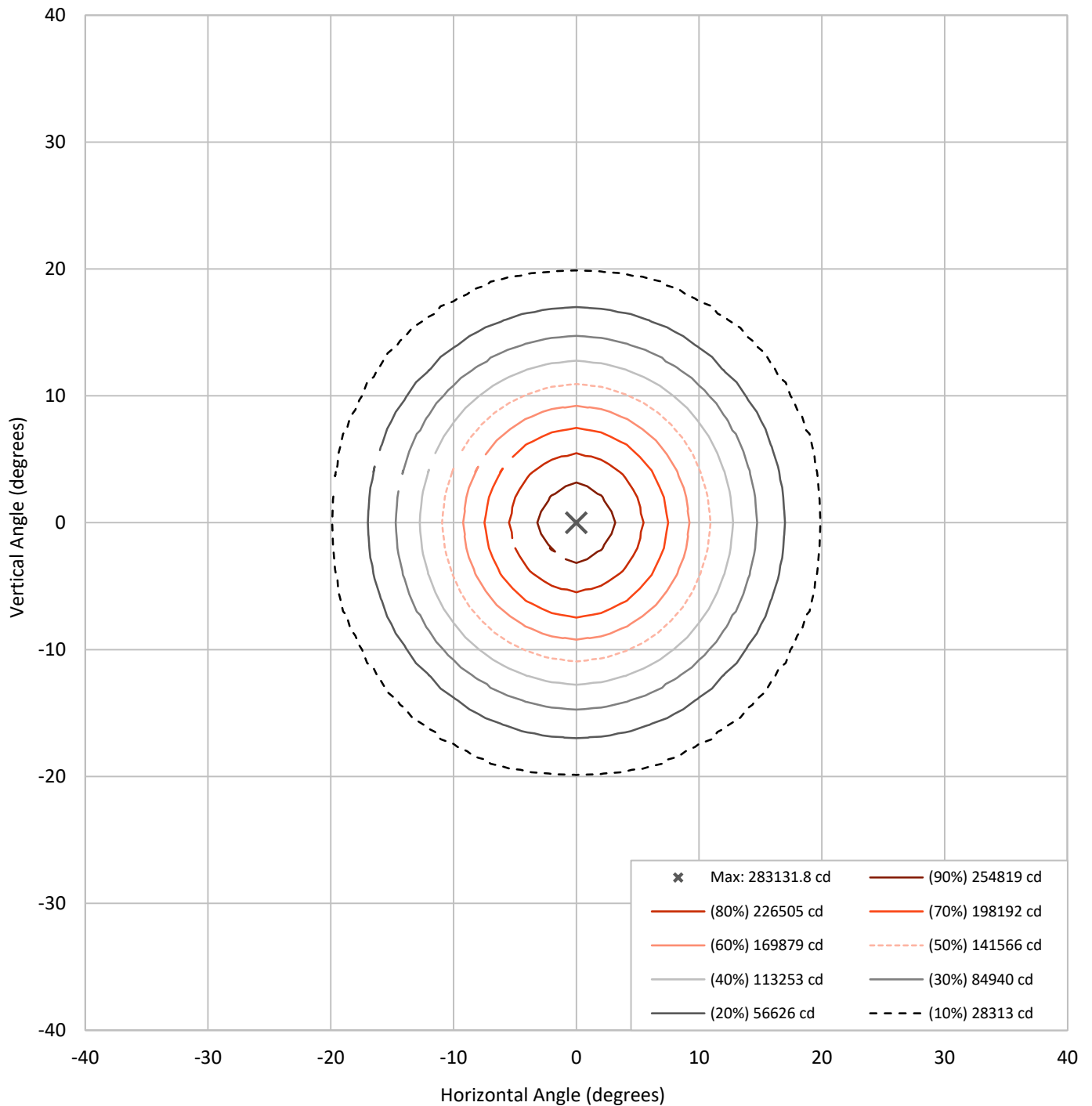
Beam Angle (50%):	21.9°H x 21.9°V	Field Angle (10%):	39.8°H x 39.8°V
Beam Lumens:	22337.9 lumens	Field Lumens:	41925.9 lumens
Beam Efficiency:	43.7%	Field Efficiency:	82.0%

Input Watts (W): 339  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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-40-80-2S-HEG

### Iso-Candela Plot





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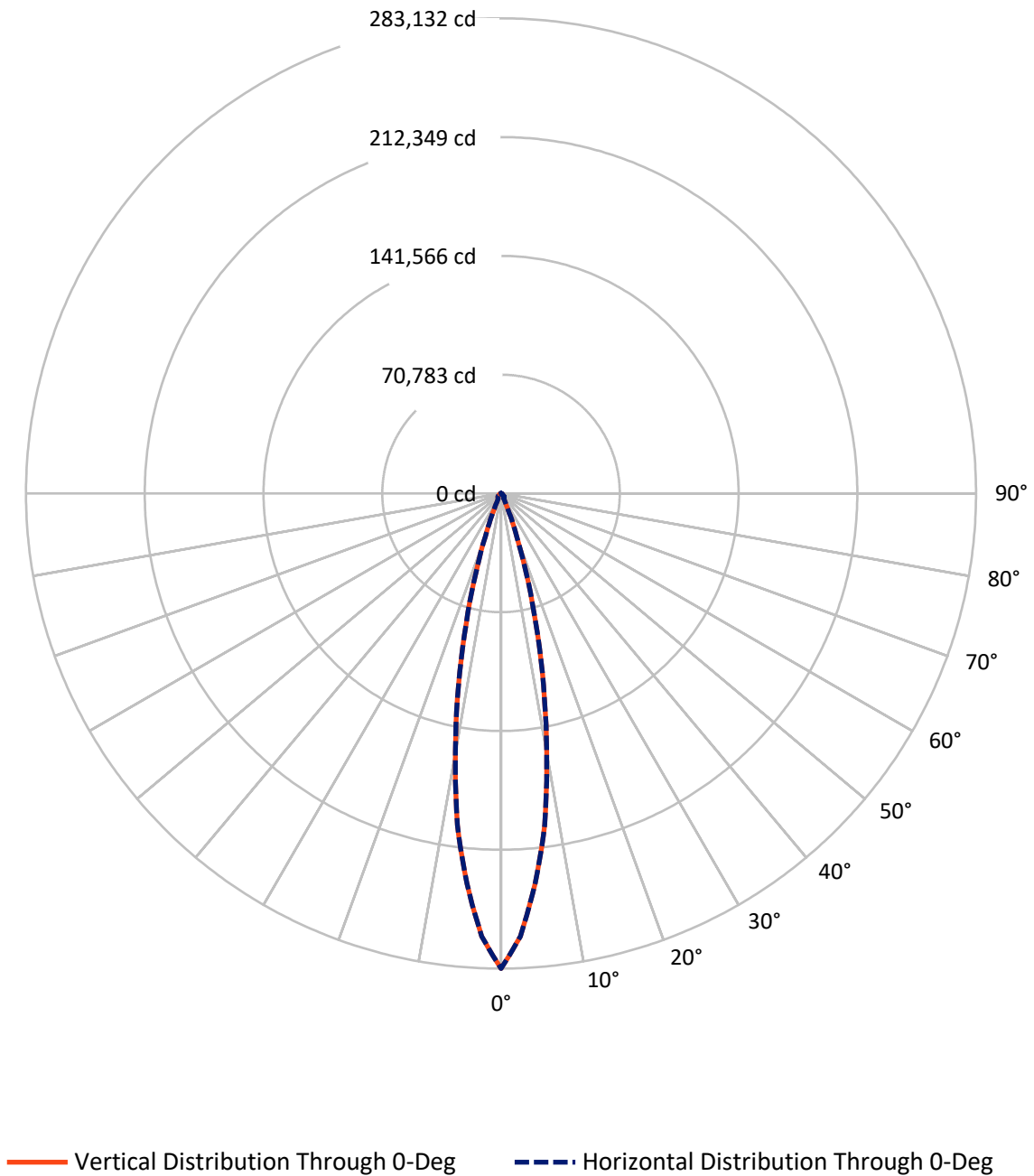
CATALOG NUMBER: EPH-08-0320L-40-80-2S-HEG

### 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	37.7	57.9	69.6	69.6	57.9	37.7	23.4	15.3	7.1	1.9	0.5			
40		3.3	10.7	20.2	44.5	77.2	90.7	95.7	95.7	90.7	77.2	44.5	20.2	10.7	3.3				
30	1.2	4.5	13.5	29.7	69.9	87.6	125.6	258.6	258.6	125.6	87.6	69.9	29.7	13.5	4.5	1.2			
20		5.5	15.2	43.0	77.0	118.3	745.5	2165.8	2165.8	745.5	118.3	77.0	43.0	15.2	5.5				
10	1.5	6.0	15.9	50.0	78.7	238.4	2110.6	5807.6	5807.6	2110.6	238.4	78.7	50.0	15.9	6.0	1.5			
0		6.0	15.9	50.0	78.7	238.4	2110.6	5807.6	5807.6	2110.6	238.4	78.7	50.0	15.9	6.0				
-10	1.2	5.5	15.2	43.0	77.0	118.3	745.5	2165.8	2165.8	745.5	118.3	77.0	43.0	15.2	5.5	1.2			
-20		4.5	13.5	29.7	69.9	87.6	125.6	258.6	258.6	125.6	87.6	69.9	29.7	13.5	4.5				
-30	0.5	3.3	10.7	20.2	44.5	77.2	90.7	95.7	95.7	90.7	77.2	44.5	20.2	10.7	3.3	0.5			
-40		1.9	7.1	15.3	23.4	37.7	57.9	69.6	69.6	57.9	37.7	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

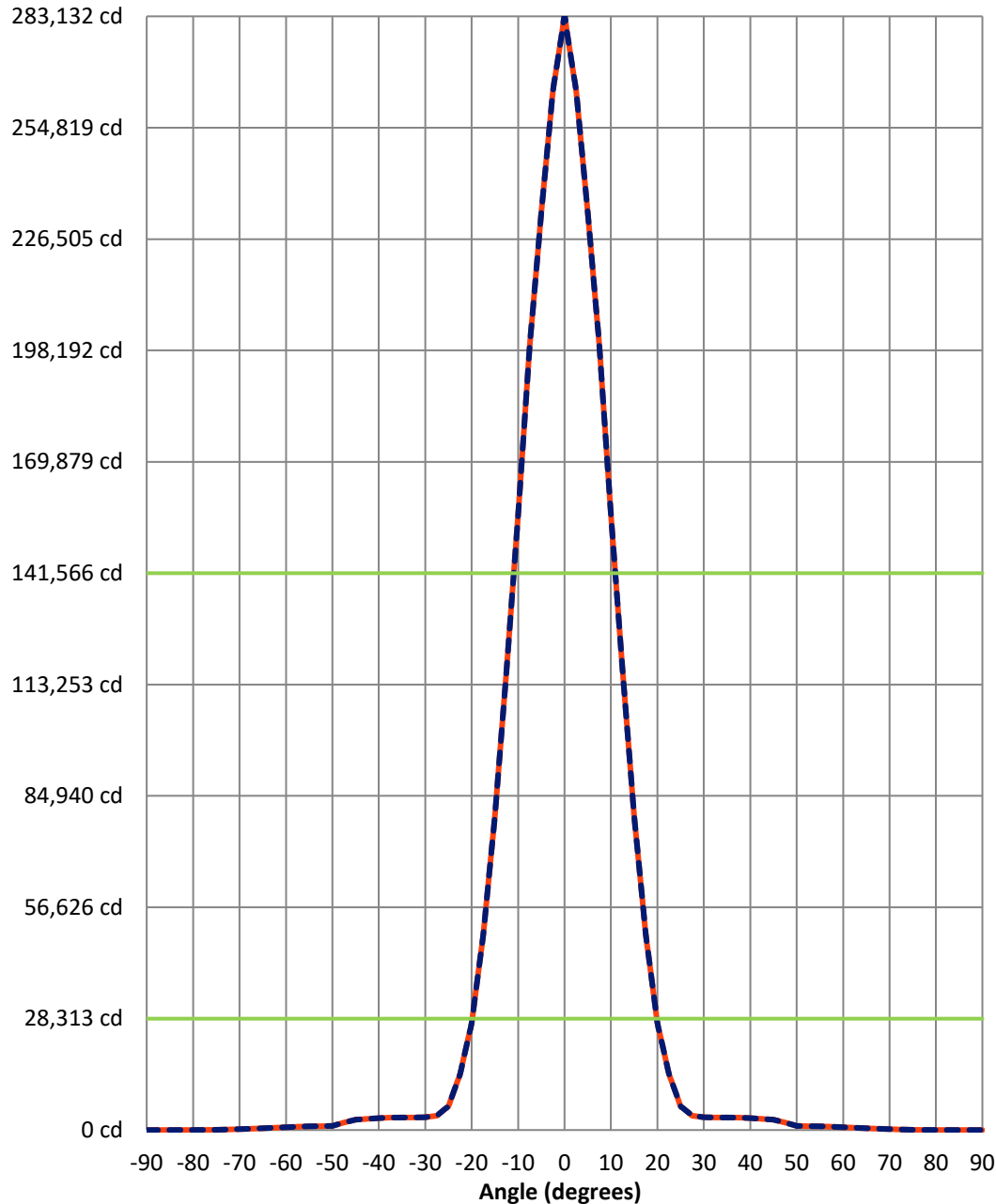
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 21.9°  
 V Angle: 21.9°  
 Lumens: 22337.9  
 Efficiency: 43.7%

**Field:**  
 H Angle: 39.8°  
 V Angle: 39.8°  
 Lumens: 41925.9  
 Efficiency: 82.0%

**Spill:**  
 Lumens: 9198.9  
 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	46.2
52.5°	0.0	0.5	1.5	3.3	5.8	8.7	12.6	17.4	23.5	38.7	58.2
50°	0.0	0.6	1.7	3.6	6.4	9.8	14.0	19.9	28.2	49.1	81.9
47.5°	0.0	0.6	1.9	3.9	7.1	10.9	15.4	22.3	37.2	59.2	106.2
45°	0.0	0.6	2.1	4.4	7.7	11.9	17.4	24.6	45.8	80.0	129.7
42.5°	0.0	0.7	2.3	4.8	8.2	12.9	19.3	29.7	54.1	100.3	158.7
40°	0.0	0.7	2.4	5.2	8.9	13.9	21.1	36.6	65.0	119.7	187.5
37.5°	0.0	0.7	2.6	5.6	9.6	14.8	22.8	43.2	81.3	139.8	215.0
35°	0.0	0.7	2.7	5.9	10.3	16.0	24.4	49.4	96.8	163.2	241.2
32.5°	0.0	0.8	2.9	6.3	10.9	17.3	27.0	55.2	111.4	185.2	266.0
30°	0.0	0.8	3.0	6.6	11.5	18.4	31.6	62.2	125.0	205.8	289.3
27.5°	0.0	0.8	3.1	6.9	12.1	19.5	36.0	73.2	139.3	224.9	310.9
25°	0.0	0.8	3.3	7.2	12.6	20.6	40.0	83.4	154.9	242.7	331.1
22.5°	0.0	0.8	3.4	7.4	13.1	21.5	43.6	92.7	169.1	259.0	353.9
20°	0.0	0.8	3.4	7.6	13.5	22.3	46.9	101.0	181.9	273.7	374.5
17.5°	0.0	0.9	3.5	7.8	13.9	23.1	49.8	108.4	193.3	286.8	392.9
15°	0.0	0.9	3.6	8.0	14.2	23.7	52.3	114.9	203.3	298.2	408.9
12.5°	0.0	0.9	3.7	8.2	14.5	24.2	54.5	120.4	211.7	307.9	422.5
10°	0.0	0.9	3.7	8.3	14.7	24.7	56.2	124.9	218.7	315.8	433.7
7.5°	0.0	0.9	3.8	8.4	14.9	25.0	57.6	128.5	224.1	322.1	442.4
5°	0.0	0.9	3.8	8.4	15.0	25.3	58.6	131.0	228.0	326.5	448.7
2.5°	0.0	0.9	3.8	8.5	15.1	25.4	59.2	132.5	230.3	329.2	452.4
0°	0.0	0.9	3.8	8.5	15.1	25.5	59.4	133.0	231.1	330.1	453.7
-2.5°	0.0	0.9	3.8	8.5	15.1	25.4	59.2	132.5	230.3	329.2	452.4
-5°	0.0	0.9	3.8	8.4	15.0	25.3	58.6	131.0	228.0	326.5	448.7
-7.5°	0.0	0.9	3.8	8.4	14.9	25.0	57.6	128.5	224.1	322.1	442.4
-10°	0.0	0.9	3.7	8.3	14.7	24.7	56.2	124.9	218.7	315.8	433.7
-12.5°	0.0	0.9	3.7	8.2	14.5	24.2	54.5	120.4	211.7	307.9	422.5
-15°	0.0	0.9	3.6	8.0	14.2	23.7	52.3	114.9	203.3	298.2	408.9
-17.5°	0.0	0.9	3.5	7.8	13.9	23.1	49.8	108.4	193.3	286.8	392.9
-20°	0.0	0.8	3.4	7.6	13.5	22.3	46.9	101.0	181.9	273.7	374.5



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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	92.7	169.1	259.0	353.9
-25°	0.0	0.8	3.3	7.2	12.6	20.6	40.0	83.4	154.9	242.7	331.1
-27.5°	0.0	0.8	3.1	6.9	12.1	19.5	36.0	73.2	139.3	224.9	310.9
-30°	0.0	0.8	3.0	6.6	11.5	18.4	31.6	62.2	125.0	205.8	289.3
-32.5°	0.0	0.8	2.9	6.3	10.9	17.3	27.0	55.2	111.4	185.2	266.0
-35°	0.0	0.7	2.7	5.9	10.3	16.0	24.4	49.4	96.8	163.2	241.2
-37.5°	0.0	0.7	2.6	5.6	9.6	14.8	22.8	43.2	81.3	139.8	215.0
-40°	0.0	0.7	2.4	5.2	8.9	13.9	21.1	36.6	65.0	119.7	187.5
-42.5°	0.0	0.7	2.3	4.8	8.2	12.9	19.3	29.7	54.1	100.3	158.7
-45°	0.0	0.6	2.1	4.4	7.7	11.9	17.4	24.6	45.8	80.0	129.7
-47.5°	0.0	0.6	1.9	3.9	7.1	10.9	15.4	22.3	37.2	59.2	106.2
-50°	0.0	0.6	1.7	3.6	6.4	9.8	14.0	19.9	28.2	49.1	81.9
-52.5°	0.0	0.5	1.5	3.3	5.8	8.7	12.6	17.4	23.5	38.7	58.2
-55°	0.0	0.5	1.3	3.0	5.1	7.8	11.2	14.9	20.6	27.9	46.2
-57.5°	0.0	0.5	1.1	2.7	4.5	7.0	9.8	13.2	17.6	22.9	34.0
-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	65.0	81.3
67.5°	15.8	19.4	22.9	27.9	38.7	49.1	59.2	80.0	100.3	119.7	139.8
65°	20.3	24.2	34.0	46.2	58.2	81.9	106.2	129.7	158.7	187.5	215.0
62.5°	24.7	37.0	50.8	69.9	98.4	126.1	159.6	194.1	227.3	259.4	290.1
60°	37.0	52.3	76.6	108.4	141.7	181.9	221.0	259.0	295.7	331.1	373.1
57.5°	50.8	76.6	111.8	150.6	195.5	239.2	282.0	323.3	371.5	419.3	465.6
55°	69.9	108.4	150.6	200.0	248.4	295.8	344.9	400.7	454.6	508.7	560.6
52.5°	98.4	141.7	195.5	248.4	300.5	356.6	418.3	479.4	539.9	597.8	652.1
50°	126.1	181.9	239.2	295.8	356.6	424.3	491.9	558.8	622.5	683.2	744.1
47.5°	159.6	221.0	282.0	344.9	418.3	491.9	565.1	634.9	702.1	771.4	838.5
45°	194.1	259.0	323.3	400.7	479.4	558.8	634.9	708.4	785.1	855.9	911.9
42.5°	227.3	295.7	371.5	454.6	539.9	622.5	702.1	785.1	861.4	923.0	956.1
40°	259.4	331.1	419.3	508.7	597.8	683.2	771.4	855.9	923.0	957.4	970.9
37.5°	290.1	373.1	465.6	560.6	652.1	744.1	838.5	911.9	956.1	970.9	1022.2
35°	319.2	413.1	511.2	609.2	704.0	804.0	889.8	952.5	968.4	1017.5	1236.1
32.5°	350.8	450.8	554.3	654.7	756.5	857.2	937.7	963.5	1003.4	1139.1	1733.3
30°	383.1	487.8	594.5	697.6	806.4	899.3	956.2	980.4	1044.8	1584.9	2163.4
27.5°	413.1	522.3	631.2	739.8	851.0	938.8	965.4	1016.7	1341.0	1991.4	2547.6
25°	440.8	554.3	665.3	779.7	884.9	954.6	980.2	1050.7	1709.6	2328.7	2707.8
22.5°	466.7	583.5	696.5	816.3	916.1	961.9	1009.2	1323.3	2029.1	2631.2	2804.2
20°	490.7	609.2	725.9	848.1	944.4	968.5	1035.7	1612.2	2295.1	2713.5	2889.7
17.5°	512.0	632.1	753.0	871.3	953.4	982.0	1094.5	1871.6	2534.6	2787.7	2965.4
15°	530.6	652.1	776.6	891.6	958.1	1001.2	1305.0	2071.2	2661.1	2852.3	3032.0
12.5°	546.5	669.2	796.8	909.0	962.2	1017.6	1485.5	2238.5	2713.2	2905.7	3071.1
10°	559.5	683.2	813.5	923.2	965.6	1031.1	1634.6	2377.0	2756.4	2950.1	3103.6
7.5°	569.7	694.2	826.5	934.4	968.2	1041.7	1751.7	2485.7	2790.3	2985.1	3129.3
5°	577.0	702.1	835.8	942.5	970.1	1049.4	1835.8	2564.0	2814.8	3010.4	3147.8
2.5°	581.4	706.8	841.4	947.3	971.2	1054.0	1886.6	2611.2	2829.6	3025.6	3159.0
0°	582.9	708.4	843.3	948.9	971.6	1055.5	1903.5	2627.0	2834.5	3030.7	3162.8
-2.5°	581.4	706.8	841.4	947.3	971.2	1054.0	1886.6	2611.2	2829.6	3025.6	3159.0
-5°	577.0	702.1	835.8	942.5	970.1	1049.4	1835.8	2564.0	2814.8	3010.4	3147.8
-7.5°	569.7	694.2	826.5	934.4	968.2	1041.7	1751.7	2485.7	2790.3	2985.1	3129.3
-10°	559.5	683.2	813.5	923.2	965.6	1031.1	1634.6	2377.0	2756.4	2950.1	3103.6
-12.5°	546.5	669.2	796.8	909.0	962.2	1017.6	1485.5	2238.5	2713.2	2905.7	3071.1
-15°	530.6	652.1	776.6	891.6	958.1	1001.2	1305.0	2071.2	2661.1	2852.3	3032.0
-17.5°	512.0	632.1	753.0	871.3	953.4	982.0	1094.5	1871.6	2534.6	2787.7	2965.4
-20°	490.7	609.2	725.9	848.1	944.4	968.5	1035.7	1612.2	2295.1	2713.5	2889.7



REPORT NUMBER: P413411 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-0320L-40-80-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	466.7	583.5	696.5	816.3	916.1	961.9	1009.2	1323.3	2029.1	2631.2	2804.2
-25°	440.8	554.3	665.3	779.7	884.9	954.6	980.2	1050.7	1709.6	2328.7	2707.8
-27.5°	413.1	522.3	631.2	739.8	851.0	938.8	965.4	1016.7	1341.0	1991.4	2547.6
-30°	383.1	487.8	594.5	697.6	806.4	899.3	956.2	980.4	1044.8	1584.9	2163.4
-32.5°	350.8	450.8	554.3	654.7	756.5	857.2	937.7	963.5	1003.4	1139.1	1733.3
-35°	319.2	413.1	511.2	609.2	704.0	804.0	889.8	952.5	968.4	1017.5	1236.1
-37.5°	290.1	373.1	465.6	560.6	652.1	744.1	838.5	911.9	956.1	970.9	1022.2
-40°	259.4	331.1	419.3	508.7	597.8	683.2	771.4	855.9	923.0	957.4	970.9
-42.5°	227.3	295.7	371.5	454.6	539.9	622.5	702.1	785.1	861.4	923.0	956.1
-45°	194.1	259.0	323.3	400.7	479.4	558.8	634.9	708.4	785.1	855.9	911.9
-47.5°	159.6	221.0	282.0	344.9	418.3	491.9	565.1	634.9	702.1	771.4	838.5
-50°	126.1	181.9	239.2	295.8	356.6	424.3	491.9	558.8	622.5	683.2	744.1
-52.5°	98.4	141.7	195.5	248.4	300.5	356.6	418.3	479.4	539.9	597.8	652.1
-55°	69.9	108.4	150.6	200.0	248.4	295.8	344.9	400.7	454.6	508.7	560.6
-57.5°	50.8	76.6	111.8	150.6	195.5	239.2	282.0	323.3	371.5	419.3	465.6
-60°	37.0	52.3	76.6	108.4	141.7	181.9	221.0	259.0	295.7	331.1	373.1
-62.5°	24.7	37.0	50.8	69.9	98.4	126.1	159.6	194.1	227.3	259.4	290.1
-65°	20.3	24.2	34.0	46.2	58.2	81.9	106.2	129.7	158.7	187.5	215.0
-67.5°	15.8	19.4	22.9	27.9	38.7	49.1	59.2	80.0	100.3	119.7	139.8
-70°	12.7	14.7	17.6	20.6	23.5	28.2	37.2	45.8	54.1	65.0	81.3
-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: P413411 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-08-0320L-40-80-2S-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	31.6	36.0	40.0	43.6	46.9	49.8	52.3	54.5	56.2
72.5°	49.4	55.2	62.2	73.2	83.4	92.7	101.0	108.4	114.9	120.4	124.9
70°	96.8	111.4	125.0	139.3	154.9	169.1	181.9	193.3	203.3	211.7	218.7
67.5°	163.2	185.2	205.8	224.9	242.7	259.0	273.7	286.8	298.2	307.9	315.8
65°	241.2	266.0	289.3	310.9	331.1	353.9	374.5	392.9	408.9	422.5	433.7
62.5°	319.2	350.8	383.1	413.1	440.8	466.7	490.7	512.0	530.6	546.5	559.5
60°	413.1	450.8	487.8	522.3	554.3	583.5	609.2	632.1	652.1	669.2	683.2
57.5°	511.2	554.3	594.5	631.2	665.3	696.5	725.9	753.0	776.6	796.8	813.5
55°	609.2	654.7	697.6	739.8	779.7	816.3	848.1	871.3	891.6	909.0	923.2
52.5°	704.0	756.5	806.4	851.0	884.9	916.1	944.4	953.4	958.1	962.2	965.6
50°	804.0	857.2	899.3	938.8	954.6	961.9	968.5	982.0	1001.2	1017.6	1031.1
47.5°	889.8	937.7	956.2	965.4	980.2	1009.2	1035.7	1094.5	1305.0	1485.5	1634.6
45°	952.5	963.5	980.4	1016.7	1050.7	1323.3	1612.2	1871.6	2071.2	2238.5	2377.0
42.5°	968.4	1003.4	1044.8	1341.0	1709.6	2029.1	2295.1	2534.6	2661.1	2713.2	2756.4
40°	1017.5	1139.1	1584.9	1991.4	2328.7	2631.2	2713.5	2787.7	2852.3	2905.7	2950.1
37.5°	1236.1	1733.3	2163.4	2547.6	2707.8	2804.2	2889.7	2965.4	3032.0	3071.1	3103.6
35°	1783.1	2250.4	2642.5	2760.0	2868.8	2966.6	3048.2	3103.3	3152.3	3166.7	3171.0
32.5°	2250.4	2655.3	2786.3	2907.2	3019.0	3093.4	3158.7	3169.5	3175.9	3180.4	3183.2
30°	2642.5	2786.3	2920.1	3040.7	3121.1	3166.9	3175.4	3181.4	3185.5	3193.9	3214.1
27.5°	2760.0	2907.2	3040.7	3130.4	3169.2	3178.9	3184.3	3195.1	3225.1	3251.3	3389.9
25°	2868.8	3019.0	3121.1	3169.2	3179.6	3185.8	3210.7	3246.6	3425.4	3605.6	4321.2
22.5°	2966.6	3093.4	3166.9	3178.9	3185.8	3216.0	3290.4	3533.8	4304.0	5509.2	7648.8
20°	3048.2	3158.7	3175.4	3184.3	3210.7	3290.4	3570.5	4775.9	6677.4	11129.5	15425.3
17.5°	3103.3	3169.5	3181.4	3195.1	3246.6	3533.8	4775.9	7528.4	12934.1	19991.7	26830.3
15°	3152.3	3175.9	3185.5	3225.1	3425.4	4304.0	6677.4	12934.1	21558.0	32330.6	45543.5
12.5°	3166.7	3180.4	3193.9	3251.3	3605.6	5509.2	11129.5	19991.7	32330.6	48752.7	68303.5
10°	3171.0	3183.2	3214.1	3389.9	4321.2	7648.8	15425.3	26830.3	45543.5	68303.5	93071.6
7.5°	3174.4	3185.3	3230.2	3501.2	5072.1	10455.2	20436.8	36288.7	58973.2	86556.1	117186.0
5°	3176.8	3186.9	3241.9	3582.4	5622.5	12524.2	24160.2	43611.2	70288.8	102801.8	137843.2
2.5°	3178.3	3187.9	3249.0	3631.9	5958.7	13793.5	26457.7	48166.7	77413.4	113220.4	151491.5
0°	3178.8	3188.2	3251.4	3648.5	6071.8	14221.5	27234.8	49714.5	79850.7	116823.7	156302.9
-2.5°	3178.3	3187.9	3249.0	3631.9	5958.7	13793.5	26457.7	48166.7	77413.4	113220.4	151491.5
-5°	3176.8	3186.9	3241.9	3582.4	5622.5	12524.2	24160.2	43611.2	70288.8	102801.8	137843.2
-7.5°	3174.4	3185.3	3230.2	3501.2	5072.1	10455.2	20436.8	36288.7	58973.2	86556.1	117186.0
-10°	3171.0	3183.2	3214.1	3389.9	4321.2	7648.8	15425.3	26830.3	45543.5	68303.5	93071.6
-12.5°	3166.7	3180.4	3193.9	3251.3	3605.6	5509.2	11129.5	19991.7	32330.6	48752.7	68303.5
-15°	3152.3	3175.9	3185.5	3225.1	3425.4	4304.0	6677.4	12934.1	21558.0	32330.6	45543.5
-17.5°	3103.3	3169.5	3181.4	3195.1	3246.6	3533.8	4775.9	7528.4	12934.1	19991.7	26830.3
-20°	3048.2	3158.7	3175.4	3184.3	3210.7	3290.4	3570.5	4775.9	6677.4	11129.5	15425.3



REPORT NUMBER: P413411 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-08-0320L-40-80-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	2966.6	3093.4	3166.9	3178.9	3185.8	3216.0	3290.4	3533.8	4304.0	5509.2	7648.8
-25°	2868.8	3019.0	3121.1	3169.2	3179.6	3185.8	3210.7	3246.6	3425.4	3605.6	4321.2
-27.5°	2760.0	2907.2	3040.7	3130.4	3169.2	3178.9	3184.3	3195.1	3225.1	3251.3	3389.9
-30°	2642.5	2786.3	2920.1	3040.7	3121.1	3166.9	3175.4	3181.4	3185.5	3193.9	3214.1
-32.5°	2250.4	2655.3	2786.3	2907.2	3019.0	3093.4	3158.7	3169.5	3175.9	3180.4	3183.2
-35°	1783.1	2250.4	2642.5	2760.0	2868.8	2966.6	3048.2	3103.3	3152.3	3166.7	3171.0
-37.5°	1236.1	1733.3	2163.4	2547.6	2707.8	2804.2	2889.7	2965.4	3032.0	3071.1	3103.6
-40°	1017.5	1139.1	1584.9	1991.4	2328.7	2631.2	2713.5	2787.7	2852.3	2905.7	2950.1
-42.5°	968.4	1003.4	1044.8	1341.0	1709.6	2029.1	2295.1	2534.6	2661.1	2713.2	2756.4
-45°	952.5	963.5	980.4	1016.7	1050.7	1323.3	1612.2	1871.6	2071.2	2238.5	2377.0
-47.5°	889.8	937.7	956.2	965.4	980.2	1009.2	1035.7	1094.5	1305.0	1485.5	1634.6
-50°	804.0	857.2	899.3	938.8	954.6	961.9	968.5	982.0	1001.2	1017.6	1031.1
-52.5°	704.0	756.5	806.4	851.0	884.9	916.1	944.4	953.4	958.1	962.2	965.6
-55°	609.2	654.7	697.6	739.8	779.7	816.3	848.1	871.3	891.6	909.0	923.2
-57.5°	511.2	554.3	594.5	631.2	665.3	696.5	725.9	753.0	776.6	796.8	813.5
-60°	413.1	450.8	487.8	522.3	554.3	583.5	609.2	632.1	652.1	669.2	683.2
-62.5°	319.2	350.8	383.1	413.1	440.8	466.7	490.7	512.0	530.6	546.5	559.5
-65°	241.2	266.0	289.3	310.9	331.1	353.9	374.5	392.9	408.9	422.5	433.7
-67.5°	163.2	185.2	205.8	224.9	242.7	259.0	273.7	286.8	298.2	307.9	315.8
-70°	96.8	111.4	125.0	139.3	154.9	169.1	181.9	193.3	203.3	211.7	218.7
-72.5°	49.4	55.2	62.2	73.2	83.4	92.7	101.0	108.4	114.9	120.4	124.9
-75°	24.4	27.0	31.6	36.0	40.0	43.6	46.9	49.8	52.3	54.5	56.2
-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: P413411 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-0320L-40-80-2S-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°	57.6	58.6	59.2	59.4	59.2	58.6	57.6	56.2	54.5	52.3	49.8
72.5°	128.5	131.0	132.5	133.0	132.5	131.0	128.5	124.9	120.4	114.9	108.4
70°	224.1	228.0	230.3	231.1	230.3	228.0	224.1	218.7	211.7	203.3	193.3
67.5°	322.1	326.5	329.2	330.1	329.2	326.5	322.1	315.8	307.9	298.2	286.8
65°	442.4	448.7	452.4	453.7	452.4	448.7	442.4	433.7	422.5	408.9	392.9
62.5°	569.7	577.0	581.4	582.9	581.4	577.0	569.7	559.5	546.5	530.6	512.0
60°	694.2	702.1	706.8	708.4	706.8	702.1	694.2	683.2	669.2	652.1	632.1
57.5°	826.5	835.8	841.4	843.3	841.4	835.8	826.5	813.5	796.8	776.6	753.0
55°	934.4	942.5	947.3	948.9	947.3	942.5	934.4	923.2	909.0	891.6	871.3
52.5°	968.2	970.1	971.2	971.6	971.2	970.1	968.2	965.6	962.2	958.1	953.4
50°	1041.7	1049.4	1054.0	1055.5	1054.0	1049.4	1041.7	1031.1	1017.6	1001.2	982.0
47.5°	1751.7	1835.8	1886.6	1903.5	1886.6	1835.8	1751.7	1634.6	1485.5	1305.0	1094.5
45°	2485.7	2564.0	2611.2	2627.0	2611.2	2564.0	2485.7	2377.0	2238.5	2071.2	1871.6
42.5°	2790.3	2814.8	2829.6	2834.5	2829.6	2814.8	2790.3	2756.4	2713.2	2661.1	2534.6
40°	2985.1	3010.4	3025.6	3030.7	3025.6	3010.4	2985.1	2950.1	2905.7	2852.3	2787.7
37.5°	3129.3	3147.8	3159.0	3162.8	3159.0	3147.8	3129.3	3103.6	3071.1	3032.0	2965.4
35°	3174.4	3176.8	3178.3	3178.8	3178.3	3176.8	3174.4	3171.0	3166.7	3152.3	3103.3
32.5°	3185.3	3186.9	3187.9	3188.2	3187.9	3186.9	3185.3	3183.2	3180.4	3175.9	3169.5
30°	3230.2	3241.9	3249.0	3251.4	3249.0	3241.9	3230.2	3214.1	3193.9	3185.5	3181.4
27.5°	3501.2	3582.4	3631.9	3648.5	3631.9	3582.4	3501.2	3389.9	3251.3	3225.1	3195.1
25°	5072.1	5622.5	5958.7	6071.8	5958.7	5622.5	5072.1	4321.2	3605.6	3425.4	3246.6
22.5°	10455.2	12524.2	13793.5	14221.5	13793.5	12524.2	10455.2	7648.8	5509.2	4304.0	3533.8
20°	20436.8	24160.2	26457.7	27234.8	26457.7	24160.2	20436.8	15425.3	11129.5	6677.4	4775.9
17.5°	36288.7	43611.2	48166.7	49714.5	48166.7	43611.2	36288.7	26830.3	19991.7	12934.1	7528.4
15°	58973.2	70288.8	77413.4	79850.7	77413.4	70288.8	58973.2	45543.5	32330.6	21558.0	12934.1
12.5°	86556.1	102801.8	113220.4	116823.7	113220.4	102801.8	86556.1	68303.5	48752.7	32330.6	19991.7
10°	117186.0	137843.2	151491.5	156302.9	151491.5	137843.2	117186.0	93071.6	68303.5	45543.5	26830.3
7.5°	146963.5	173108.6	192703.7	199345.3	192703.7	173108.6	146963.5	117186.0	86556.1	58973.2	36288.7
5°	173108.6	206480.7	226371.9	233296.5	226371.9	206480.7	173108.6	137843.2	102801.8	70288.8	43611.2
2.5°	192703.7	226371.9	250677.7	264179.4	250677.7	226371.9	192703.7	151491.5	113220.4	77413.4	48166.7
0°	199345.3	233296.5	264179.4	283131.8	264179.4	233296.5	199345.3	156302.9	116823.7	79850.7	49714.5
-2.5°	192703.7	226371.9	250677.7	264179.4	250677.7	226371.9	192703.7	151491.5	113220.4	77413.4	48166.7
-5°	173108.6	206480.7	226371.9	233296.5	226371.9	206480.7	173108.6	137843.2	102801.8	70288.8	43611.2
-7.5°	146963.5	173108.6	192703.7	199345.3	192703.7	173108.6	146963.5	117186.0	86556.1	58973.2	36288.7
-10°	117186.0	137843.2	151491.5	156302.9	151491.5	137843.2	117186.0	93071.6	68303.5	45543.5	26830.3
-12.5°	86556.1	102801.8	113220.4	116823.7	113220.4	102801.8	86556.1	68303.5	48752.7	32330.6	19991.7
-15°	58973.2	70288.8	77413.4	79850.7	77413.4	70288.8	58973.2	45543.5	32330.6	21558.0	12934.1
-17.5°	36288.7	43611.2	48166.7	49714.5	48166.7	43611.2	36288.7	26830.3	19991.7	12934.1	7528.4
-20°	20436.8	24160.2	26457.7	27234.8	26457.7	24160.2	20436.8	15425.3	11129.5	6677.4	4775.9



REPORT NUMBER: P413411 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-0320L-40-80-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	10455.2	12524.2	13793.5	14221.5	13793.5	12524.2	10455.2	7648.8	5509.2	4304.0	3533.8
-25°	5072.1	5622.5	5958.7	6071.8	5958.7	5622.5	5072.1	4321.2	3605.6	3425.4	3246.6
-27.5°	3501.2	3582.4	3631.9	3648.5	3631.9	3582.4	3501.2	3389.9	3251.3	3225.1	3195.1
-30°	3230.2	3241.9	3249.0	3251.4	3249.0	3241.9	3230.2	3214.1	3193.9	3185.5	3181.4
-32.5°	3185.3	3186.9	3187.9	3188.2	3187.9	3186.9	3185.3	3183.2	3180.4	3175.9	3169.5
-35°	3174.4	3176.8	3178.3	3178.8	3178.3	3176.8	3174.4	3171.0	3166.7	3152.3	3103.3
-37.5°	3129.3	3147.8	3159.0	3162.8	3159.0	3147.8	3129.3	3103.6	3071.1	3032.0	2965.4
-40°	2985.1	3010.4	3025.6	3030.7	3025.6	3010.4	2985.1	2950.1	2905.7	2852.3	2787.7
-42.5°	2790.3	2814.8	2829.6	2834.5	2829.6	2814.8	2790.3	2756.4	2713.2	2661.1	2534.6
-45°	2485.7	2564.0	2611.2	2627.0	2611.2	2564.0	2485.7	2377.0	2238.5	2071.2	1871.6
-47.5°	1751.7	1835.8	1886.6	1903.5	1886.6	1835.8	1751.7	1634.6	1485.5	1305.0	1094.5
-50°	1041.7	1049.4	1054.0	1055.5	1054.0	1049.4	1041.7	1031.1	1017.6	1001.2	982.0
-52.5°	968.2	970.1	971.2	971.6	971.2	970.1	968.2	965.6	962.2	958.1	953.4
-55°	934.4	942.5	947.3	948.9	947.3	942.5	934.4	923.2	909.0	891.6	871.3
-57.5°	826.5	835.8	841.4	843.3	841.4	835.8	826.5	813.5	796.8	776.6	753.0
-60°	694.2	702.1	706.8	708.4	706.8	702.1	694.2	683.2	669.2	652.1	632.1
-62.5°	569.7	577.0	581.4	582.9	581.4	577.0	569.7	559.5	546.5	530.6	512.0
-65°	442.4	448.7	452.4	453.7	452.4	448.7	442.4	433.7	422.5	408.9	392.9
-67.5°	322.1	326.5	329.2	330.1	329.2	326.5	322.1	315.8	307.9	298.2	286.8
-70°	224.1	228.0	230.3	231.1	230.3	228.0	224.1	218.7	211.7	203.3	193.3
-72.5°	128.5	131.0	132.5	133.0	132.5	131.0	128.5	124.9	120.4	114.9	108.4
-75°	57.6	58.6	59.2	59.4	59.2	58.6	57.6	56.2	54.5	52.3	49.8
-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: P413411 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-08-0320L-40-80-2S-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	31.6	27.0	24.4	22.8	21.1	19.3	17.4
72.5°	101.0	92.7	83.4	73.2	62.2	55.2	49.4	43.2	36.6	29.7	24.6
70°	181.9	169.1	154.9	139.3	125.0	111.4	96.8	81.3	65.0	54.1	45.8
67.5°	273.7	259.0	242.7	224.9	205.8	185.2	163.2	139.8	119.7	100.3	80.0
65°	374.5	353.9	331.1	310.9	289.3	266.0	241.2	215.0	187.5	158.7	129.7
62.5°	490.7	466.7	440.8	413.1	383.1	350.8	319.2	290.1	259.4	227.3	194.1
60°	609.2	583.5	554.3	522.3	487.8	450.8	413.1	373.1	331.1	295.7	259.0
57.5°	725.9	696.5	665.3	631.2	594.5	554.3	511.2	465.6	419.3	371.5	323.3
55°	848.1	816.3	779.7	739.8	697.6	654.7	609.2	560.6	508.7	454.6	400.7
52.5°	944.4	916.1	884.9	851.0	806.4	756.5	704.0	652.1	597.8	539.9	479.4
50°	968.5	961.9	954.6	938.8	899.3	857.2	804.0	744.1	683.2	622.5	558.8
47.5°	1035.7	1009.2	980.2	965.4	956.2	937.7	889.8	838.5	771.4	702.1	634.9
45°	1612.2	1323.3	1050.7	1016.7	980.4	963.5	952.5	911.9	855.9	785.1	708.4
42.5°	2295.1	2029.1	1709.6	1341.0	1044.8	1003.4	968.4	956.1	923.0	861.4	785.1
40°	2713.5	2631.2	2328.7	1991.4	1584.9	1139.1	1017.5	970.9	957.4	923.0	855.9
37.5°	2889.7	2804.2	2707.8	2547.6	2163.4	1733.3	1236.1	1022.2	970.9	956.1	911.9
35°	3048.2	2966.6	2868.8	2760.0	2642.5	2250.4	1783.1	1236.1	1017.5	968.4	952.5
32.5°	3158.7	3093.4	3019.0	2907.2	2786.3	2655.3	2250.4	1733.3	1139.1	1003.4	963.5
30°	3175.4	3166.9	3121.1	3040.7	2920.1	2786.3	2642.5	2163.4	1584.9	1044.8	980.4
27.5°	3184.3	3178.9	3169.2	3130.4	3040.7	2907.2	2760.0	2547.6	1991.4	1341.0	1016.7
25°	3210.7	3185.8	3179.6	3169.2	3121.1	3019.0	2868.8	2707.8	2328.7	1709.6	1050.7
22.5°	3290.4	3216.0	3185.8	3178.9	3166.9	3093.4	2966.6	2804.2	2631.2	2029.1	1323.3
20°	3570.5	3290.4	3210.7	3184.3	3175.4	3158.7	3048.2	2889.7	2713.5	2295.1	1612.2
17.5°	4775.9	3533.8	3246.6	3195.1	3181.4	3169.5	3103.3	2965.4	2787.7	2534.6	1871.6
15°	6677.4	4304.0	3425.4	3225.1	3185.5	3175.9	3152.3	3032.0	2852.3	2661.1	2071.2
12.5°	11129.5	5509.2	3605.6	3251.3	3193.9	3180.4	3166.7	3071.1	2905.7	2713.2	2238.5
10°	15425.3	7648.8	4321.2	3389.9	3214.1	3183.2	3171.0	3103.6	2950.1	2756.4	2377.0
7.5°	20436.8	10455.2	5072.1	3501.2	3230.2	3185.3	3174.4	3129.3	2985.1	2790.3	2485.7
5°	24160.2	12524.2	5622.5	3582.4	3241.9	3186.9	3176.8	3147.8	3010.4	2814.8	2564.0
2.5°	26457.7	13793.5	5958.7	3631.9	3249.0	3187.9	3178.3	3159.0	3025.6	2829.6	2611.2
0°	27234.8	14221.5	6071.8	3648.5	3251.4	3188.2	3178.8	3162.8	3030.7	2834.5	2627.0
-2.5°	26457.7	13793.5	5958.7	3631.9	3249.0	3187.9	3178.3	3159.0	3025.6	2829.6	2611.2
-5°	24160.2	12524.2	5622.5	3582.4	3241.9	3186.9	3176.8	3147.8	3010.4	2814.8	2564.0
-7.5°	20436.8	10455.2	5072.1	3501.2	3230.2	3185.3	3174.4	3129.3	2985.1	2790.3	2485.7
-10°	15425.3	7648.8	4321.2	3389.9	3214.1	3183.2	3171.0	3103.6	2950.1	2756.4	2377.0
-12.5°	11129.5	5509.2	3605.6	3251.3	3193.9	3180.4	3166.7	3071.1	2905.7	2713.2	2238.5
-15°	6677.4	4304.0	3425.4	3225.1	3185.5	3175.9	3152.3	3032.0	2852.3	2661.1	2071.2
-17.5°	4775.9	3533.8	3246.6	3195.1	3181.4	3169.5	3103.3	2965.4	2787.7	2534.6	1871.6
-20°	3570.5	3290.4	3210.7	3184.3	3175.4	3158.7	3048.2	2889.7	2713.5	2295.1	1612.2





REPORT NUMBER: P413411 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-08-0320L-40-80-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	3290.4	3216.0	3185.8	3178.9	3166.9	3093.4	2966.6	2804.2	2631.2	2029.1	1323.3
-25°	3210.7	3185.8	3179.6	3169.2	3121.1	3019.0	2868.8	2707.8	2328.7	1709.6	1050.7
-27.5°	3184.3	3178.9	3169.2	3130.4	3040.7	2907.2	2760.0	2547.6	1991.4	1341.0	1016.7
-30°	3175.4	3166.9	3121.1	3040.7	2920.1	2786.3	2642.5	2163.4	1584.9	1044.8	980.4
-32.5°	3158.7	3093.4	3019.0	2907.2	2786.3	2655.3	2250.4	1733.3	1139.1	1003.4	963.5
-35°	3048.2	2966.6	2868.8	2760.0	2642.5	2250.4	1783.1	1236.1	1017.5	968.4	952.5
-37.5°	2889.7	2804.2	2707.8	2547.6	2163.4	1733.3	1236.1	1022.2	970.9	956.1	911.9
-40°	2713.5	2631.2	2328.7	1991.4	1584.9	1139.1	1017.5	970.9	957.4	923.0	855.9
-42.5°	2295.1	2029.1	1709.6	1341.0	1044.8	1003.4	968.4	956.1	923.0	861.4	785.1
-45°	1612.2	1323.3	1050.7	1016.7	980.4	963.5	952.5	911.9	855.9	785.1	708.4
-47.5°	1035.7	1009.2	980.2	965.4	956.2	937.7	889.8	838.5	771.4	702.1	634.9
-50°	968.5	961.9	954.6	938.8	899.3	857.2	804.0	744.1	683.2	622.5	558.8
-52.5°	944.4	916.1	884.9	851.0	806.4	756.5	704.0	652.1	597.8	539.9	479.4
-55°	848.1	816.3	779.7	739.8	697.6	654.7	609.2	560.6	508.7	454.6	400.7
-57.5°	725.9	696.5	665.3	631.2	594.5	554.3	511.2	465.6	419.3	371.5	323.3
-60°	609.2	583.5	554.3	522.3	487.8	450.8	413.1	373.1	331.1	295.7	259.0
-62.5°	490.7	466.7	440.8	413.1	383.1	350.8	319.2	290.1	259.4	227.3	194.1
-65°	374.5	353.9	331.1	310.9	289.3	266.0	241.2	215.0	187.5	158.7	129.7
-67.5°	273.7	259.0	242.7	224.9	205.8	185.2	163.2	139.8	119.7	100.3	80.0
-70°	181.9	169.1	154.9	139.3	125.0	111.4	96.8	81.3	65.0	54.1	45.8
-72.5°	101.0	92.7	83.4	73.2	62.2	55.2	49.4	43.2	36.6	29.7	24.6
-75°	46.9	43.6	40.0	36.0	31.6	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: P413411 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-0320L-40-80-2S-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°	59.2	49.1	38.7	27.9	22.9	19.4	15.8	13.3	10.9	8.6	6.8
65°	106.2	81.9	58.2	46.2	34.0	24.2	20.3	16.3	13.3	10.6	8.1
62.5°	159.6	126.1	98.4	69.9	50.8	37.0	24.7	20.3	15.8	12.7	9.8
60°	221.0	181.9	141.7	108.4	76.6	52.3	37.0	24.2	19.4	14.7	11.5
57.5°	282.0	239.2	195.5	150.6	111.8	76.6	50.8	34.0	22.9	17.6	13.2
55°	344.9	295.8	248.4	200.0	150.6	108.4	69.9	46.2	27.9	20.6	14.9
52.5°	418.3	356.6	300.5	248.4	195.5	141.7	98.4	58.2	38.7	23.5	17.4
50°	491.9	424.3	356.6	295.8	239.2	181.9	126.1	81.9	49.1	28.2	19.9
47.5°	565.1	491.9	418.3	344.9	282.0	221.0	159.6	106.2	59.2	37.2	22.3
45°	634.9	558.8	479.4	400.7	323.3	259.0	194.1	129.7	80.0	45.8	24.6
42.5°	702.1	622.5	539.9	454.6	371.5	295.7	227.3	158.7	100.3	54.1	29.7
40°	771.4	683.2	597.8	508.7	419.3	331.1	259.4	187.5	119.7	65.0	36.6
37.5°	838.5	744.1	652.1	560.6	465.6	373.1	290.1	215.0	139.8	81.3	43.2
35°	889.8	804.0	704.0	609.2	511.2	413.1	319.2	241.2	163.2	96.8	49.4
32.5°	937.7	857.2	756.5	654.7	554.3	450.8	350.8	266.0	185.2	111.4	55.2
30°	956.2	899.3	806.4	697.6	594.5	487.8	383.1	289.3	205.8	125.0	62.2
27.5°	965.4	938.8	851.0	739.8	631.2	522.3	413.1	310.9	224.9	139.3	73.2
25°	980.2	954.6	884.9	779.7	665.3	554.3	440.8	331.1	242.7	154.9	83.4
22.5°	1009.2	961.9	916.1	816.3	696.5	583.5	466.7	353.9	259.0	169.1	92.7
20°	1035.7	968.5	944.4	848.1	725.9	609.2	490.7	374.5	273.7	181.9	101.0
17.5°	1094.5	982.0	953.4	871.3	753.0	632.1	512.0	392.9	286.8	193.3	108.4
15°	1305.0	1001.2	958.1	891.6	776.6	652.1	530.6	408.9	298.2	203.3	114.9
12.5°	1485.5	1017.6	962.2	909.0	796.8	669.2	546.5	422.5	307.9	211.7	120.4
10°	1634.6	1031.1	965.6	923.2	813.5	683.2	559.5	433.7	315.8	218.7	124.9
7.5°	1751.7	1041.7	968.2	934.4	826.5	694.2	569.7	442.4	322.1	224.1	128.5
5°	1835.8	1049.4	970.1	942.5	835.8	702.1	577.0	448.7	326.5	228.0	131.0
2.5°	1886.6	1054.0	971.2	947.3	841.4	706.8	581.4	452.4	329.2	230.3	132.5
0°	1903.5	1055.5	971.6	948.9	843.3	708.4	582.9	453.7	330.1	231.1	133.0
-2.5°	1886.6	1054.0	971.2	947.3	841.4	706.8	581.4	452.4	329.2	230.3	132.5
-5°	1835.8	1049.4	970.1	942.5	835.8	702.1	577.0	448.7	326.5	228.0	131.0
-7.5°	1751.7	1041.7	968.2	934.4	826.5	694.2	569.7	442.4	322.1	224.1	128.5
-10°	1634.6	1031.1	965.6	923.2	813.5	683.2	559.5	433.7	315.8	218.7	124.9
-12.5°	1485.5	1017.6	962.2	909.0	796.8	669.2	546.5	422.5	307.9	211.7	120.4
-15°	1305.0	1001.2	958.1	891.6	776.6	652.1	530.6	408.9	298.2	203.3	114.9
-17.5°	1094.5	982.0	953.4	871.3	753.0	632.1	512.0	392.9	286.8	193.3	108.4
-20°	1035.7	968.5	944.4	848.1	725.9	609.2	490.7	374.5	273.7	181.9	101.0



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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°	1009.2	961.9	916.1	816.3	696.5	583.5	466.7	353.9	259.0	169.1	92.7
-25°	980.2	954.6	884.9	779.7	665.3	554.3	440.8	331.1	242.7	154.9	83.4
-27.5°	965.4	938.8	851.0	739.8	631.2	522.3	413.1	310.9	224.9	139.3	73.2
-30°	956.2	899.3	806.4	697.6	594.5	487.8	383.1	289.3	205.8	125.0	62.2
-32.5°	937.7	857.2	756.5	654.7	554.3	450.8	350.8	266.0	185.2	111.4	55.2
-35°	889.8	804.0	704.0	609.2	511.2	413.1	319.2	241.2	163.2	96.8	49.4
-37.5°	838.5	744.1	652.1	560.6	465.6	373.1	290.1	215.0	139.8	81.3	43.2
-40°	771.4	683.2	597.8	508.7	419.3	331.1	259.4	187.5	119.7	65.0	36.6
-42.5°	702.1	622.5	539.9	454.6	371.5	295.7	227.3	158.7	100.3	54.1	29.7
-45°	634.9	558.8	479.4	400.7	323.3	259.0	194.1	129.7	80.0	45.8	24.6
-47.5°	565.1	491.9	418.3	344.9	282.0	221.0	159.6	106.2	59.2	37.2	22.3
-50°	491.9	424.3	356.6	295.8	239.2	181.9	126.1	81.9	49.1	28.2	19.9
-52.5°	418.3	356.6	300.5	248.4	195.5	141.7	98.4	58.2	38.7	23.5	17.4
-55°	344.9	295.8	248.4	200.0	150.6	108.4	69.9	46.2	27.9	20.6	14.9
-57.5°	282.0	239.2	195.5	150.6	111.8	76.6	50.8	34.0	22.9	17.6	13.2
-60°	221.0	181.9	141.7	108.4	76.6	52.3	37.0	24.2	19.4	14.7	11.5
-62.5°	159.6	126.1	98.4	69.9	50.8	37.0	24.7	20.3	15.8	12.7	9.8
-65°	106.2	81.9	58.2	46.2	34.0	24.2	20.3	16.3	13.3	10.6	8.1
-67.5°	59.2	49.1	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°	31.6	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°	49.8	23.1	13.9	7.8	3.5	0.9	0.0
15°	52.3	23.7	14.2	8.0	3.6	0.9	0.0
12.5°	54.5	24.2	14.5	8.2	3.7	0.9	0.0
10°	56.2	24.7	14.7	8.3	3.7	0.9	0.0
7.5°	57.6	25.0	14.9	8.4	3.8	0.9	0.0
5°	58.6	25.3	15.0	8.4	3.8	0.9	0.0
2.5°	59.2	25.4	15.1	8.5	3.8	0.9	0.0
0°	59.4	25.5	15.1	8.5	3.8	0.9	0.0
-2.5°	59.2	25.4	15.1	8.5	3.8	0.9	0.0
-5°	58.6	25.3	15.0	8.4	3.8	0.9	0.0
-7.5°	57.6	25.0	14.9	8.4	3.8	0.9	0.0
-10°	56.2	24.7	14.7	8.3	3.7	0.9	0.0
-12.5°	54.5	24.2	14.5	8.2	3.7	0.9	0.0
-15°	52.3	23.7	14.2	8.0	3.6	0.9	0.0
-17.5°	49.8	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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**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°	31.6	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)