

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: P701497 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-40-80-4S-CV5-S**

Issue Date: 8/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P701497 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0640L-40-80-4S-CV5-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 4S BEAM SHAPE WITH 5 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

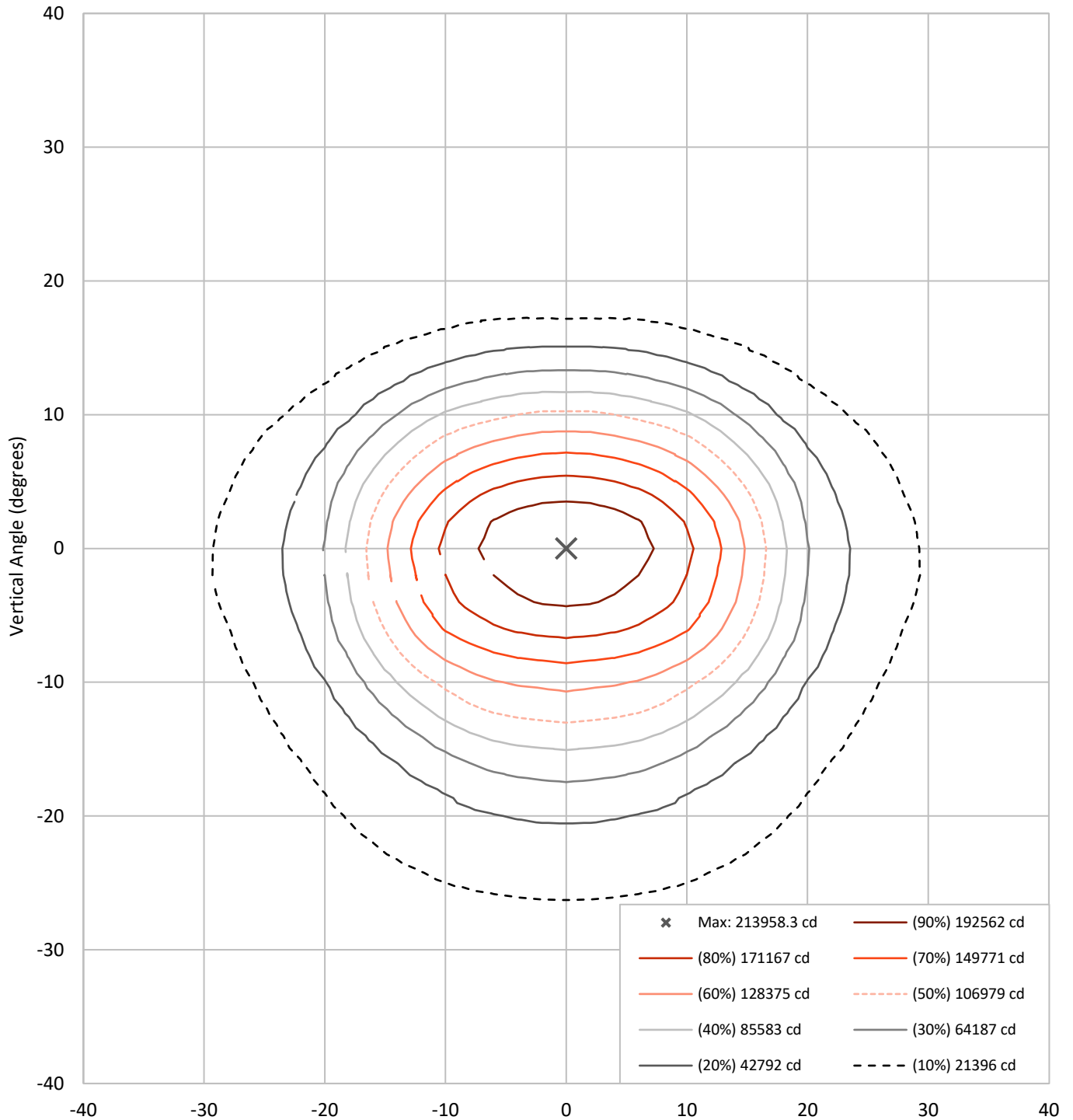
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 3V
Luminaire Lumens:	56481.3 lumens	Max Intensity:	213958.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	85.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	33.1°H x 23.4°V	Field Angle (10%):	58.5°H x 43.2°V
Beam Lumens:	28577.7 lumens	Field Lumens:	48710.2 lumens
Beam Efficiency:	50.6%	Field Efficiency:	86.2%

Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Iso-Candela Plot





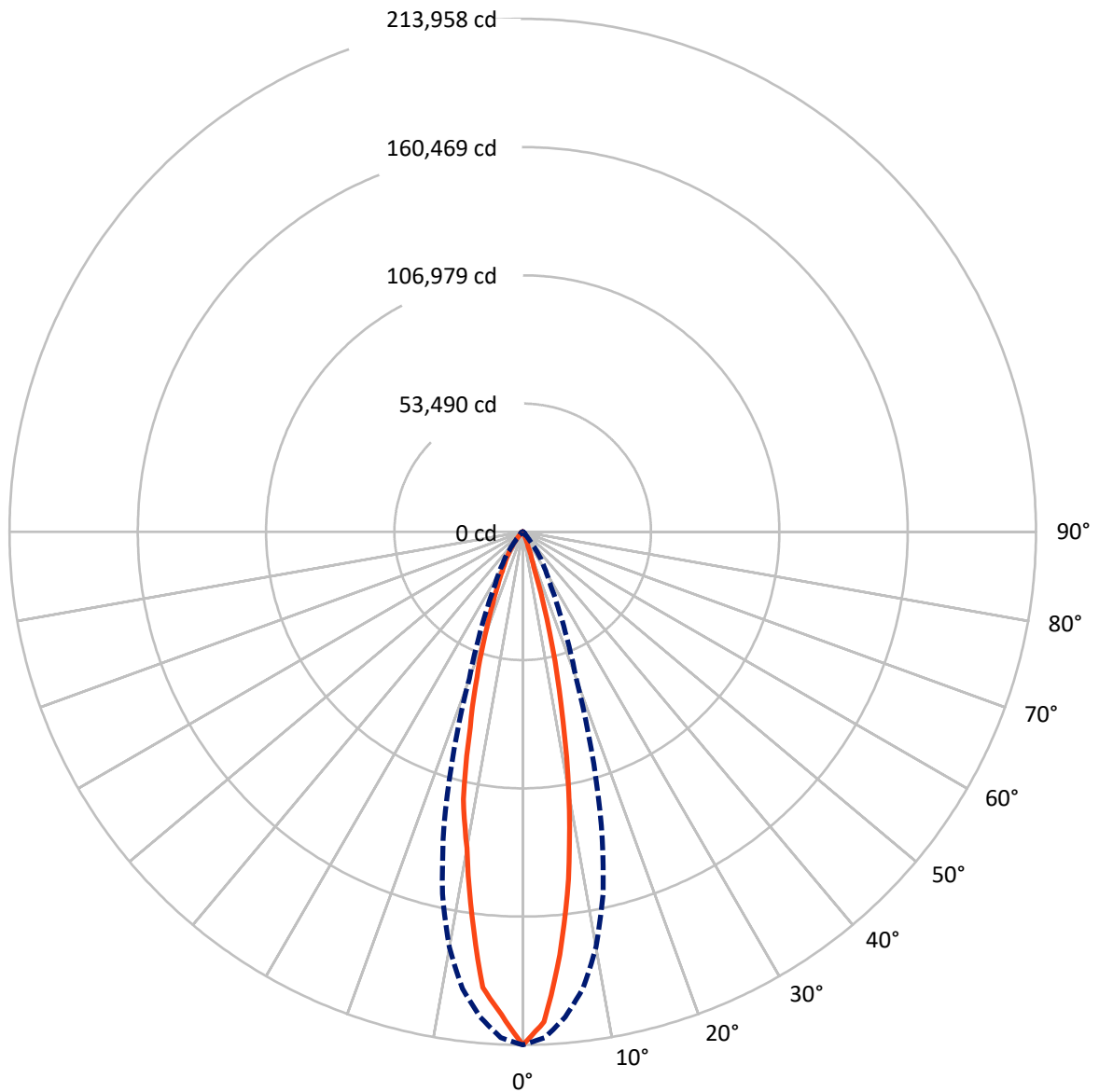
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### Lumen Table

90																		
80	0.2	0.5		0.8		0.7		0.5		0.7		0.8		0.5		0.2		
70																		
60	0.2	0.1	0.2	0.5	0.7	0.4	0.3	0.3	0.3	0.3	0.4	0.7	0.5	0.2	0.1	0.2		
50		0.1	0.3	0.8	0.8	0.3	0.2	0.2	0.2	0.2	0.3	0.8	0.8	0.3	0.1			
40	0.2	0.2	0.4	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.4	0.2	0.2		
30		0.2	0.5	0.8	1.2	2.4	4.4	6.5	6.5	4.4	2.4	1.2	0.8	0.5	0.2			
20	0.2	0.4	1.5	3.1	8.5	23.6	48.8	81.0	81.0	48.8	23.6	8.5	3.1	1.5	0.4	0.2		
10		0.9	4.8	12.8	76.2	238.2	725.6	1356.3	1356.3	725.6	238.2	76.2	12.8	4.8	0.9			
0	0.3	1.8	9.8	32.2	236.6	833.5	2885.7	4910.8	4910.8	2885.7	833.5	236.6	32.2	9.8	1.8	0.3		
-10		2.4	12.1	38.6	263.6	919.7	3178.5	5217.8	5217.8	3178.5	919.7	263.6	38.6	12.1	2.4			
-20	0.5	2.6	10.7	27.1	156.2	506.9	1406.6	2472.1	2472.1	1406.6	506.9	156.2	27.1	10.7	2.6	0.5		
-30		2.5	9.0	18.1	65.3	253.4	522.2	760.4	760.4	522.2	253.4	65.3	18.1	9.0	2.5			
-40	0.4	2.1	7.6	14.1	26.5	78.9	179.1	254.2	254.2	179.1	78.9	26.5	14.1	7.6	2.1	0.4		
-50		1.3	5.4	11.6	18.9	28.2	40.8	53.5	53.5	40.8	28.2	18.9	11.6	5.4	1.3			
-60	0.3	0.7	2.8	7.4	13.3	18.6	22.8	25.6	25.6	22.8	18.6	13.3	7.4	2.8	0.7	0.3		
-70		0.3	1.0	2.8	5.6	9.0	12.1	13.9	13.9	12.1	9.0	5.6	2.8	1.0	0.3			
-80	0.2	0.8		2.7		6.9		9.9		6.9		2.7		0.8		0.2		
-90																		

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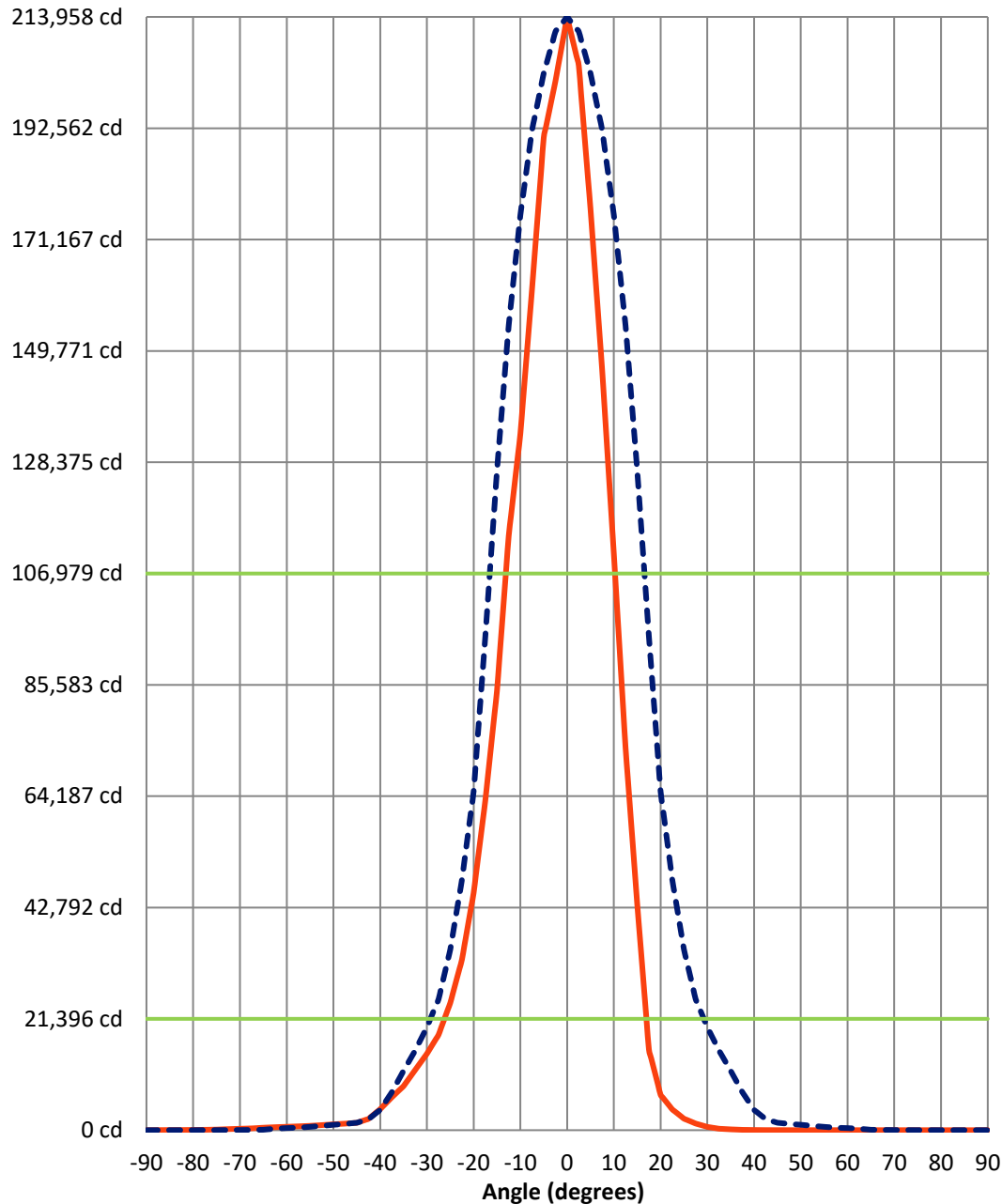
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 33.1°  
 V Angle: 23.4°  
 Lumens: 28577.7  
 Efficiency: 50.6%

**Field:**  
 H Angle: 58.5°  
 V Angle: 43.2°  
 Lumens: 48710.2  
 Efficiency: 86.2%

**Spill:**  
 Lumens: 7771.1  
 Efficiency: 13.8%

— 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°	7.8	8.8	9.8	9.3	8.8	8.3	7.8	8.3	8.8	9.3	9.8
87.5°	7.8	7.9	8.0	8.1	8.1	8.2	8.3	8.3	8.1	8.0	7.8
85°	7.8	8.0	8.1	8.3	8.5	8.7	8.8	8.7	8.5	8.2	7.8
82.5°	7.8	8.1	8.3	8.6	8.8	9.1	9.3	9.2	8.9	8.5	8.4
80°	7.8	8.1	8.5	8.8	9.2	9.5	9.8	9.4	9.2	9.1	9.2
77.5°	7.8	8.2	8.7	9.1	9.5	9.8	9.8	9.6	9.5	9.7	9.8
75°	7.8	8.3	8.8	9.3	9.8	9.8	9.8	9.7	9.8	9.8	9.8
72.5°	7.8	8.4	9.0	9.6	9.8	9.8	9.8	9.8	9.8	9.8	9.8
70°	7.8	8.5	9.2	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
67.5°	7.8	8.6	9.3	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
65°	7.8	8.6	9.5	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
62.5°	7.8	8.7	9.6	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
60°	7.8	8.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
57.5°	7.8	8.9	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
55°	7.8	8.9	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
52.5°	7.8	9.0	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
50°	7.8	9.1	9.8	9.8	9.8	9.8	9.8	9.9	9.8	9.8	10.7
47.5°	7.8	9.2	9.8	9.8	9.8	9.8	9.8	10.1	9.8	9.8	11.5
45°	7.8	9.2	9.8	9.8	9.8	9.8	10.0	10.2	9.9	10.4	12.2
42.5°	7.8	9.3	9.8	9.8	9.8	9.8	10.2	10.4	10.0	10.9	12.7
40°	7.8	9.3	9.8	9.8	9.8	9.8	10.4	10.5	10.3	11.4	13.1
37.5°	7.8	9.4	9.8	9.8	9.8	9.8	10.6	10.6	10.8	12.0	13.5
35°	7.8	9.4	9.8	9.8	9.8	9.9	10.9	10.7	11.4	12.9	13.9
32.5°	7.8	9.5	9.8	9.8	9.8	10.1	11.1	10.8	11.9	14.0	15.3
30°	7.8	9.5	9.8	9.8	9.8	10.3	11.2	11.0	12.4	15.3	16.9
27.5°	7.8	9.6	9.8	9.8	9.8	10.5	11.3	11.4	13.1	16.7	18.8
25°	7.8	9.6	9.8	9.8	9.8	10.8	11.4	11.9	14.2	18.2	21.0
22.5°	7.8	9.6	9.8	9.8	9.8	11.0	11.5	12.2	15.4	19.9	25.1
20°	7.8	9.7	9.8	9.8	9.8	11.1	11.7	12.6	16.6	21.7	29.5
17.5°	7.8	9.7	9.8	9.8	9.8	11.3	11.8	13.0	17.8	23.6	34.1
15°	7.8	9.7	9.8	9.8	9.8	11.4	12.0	13.5	19.1	25.5	38.8
12.5°	7.8	9.8	9.8	9.8	9.8	11.5	12.3	14.5	20.8	27.4	43.5
10°	7.8	9.8	9.8	9.8	9.8	11.6	12.5	15.5	23.1	31.4	49.7
7.5°	7.8	9.8	9.8	9.8	9.8	11.6	12.8	16.5	25.2	35.8	59.1
5°	7.8	9.8	9.8	9.8	9.8	11.7	13.1	17.5	27.3	40.2	68.3
2.5°	7.8	9.8	9.8	9.8	9.8	11.7	13.4	18.6	29.3	44.6	77.4
0°	7.8	9.8	9.8	9.8	9.8	11.7	13.4	18.6	29.3	44.6	77.4
-2.5°	7.8	9.8	9.8	9.8	9.8	11.9	15.0	22.2	36.8	59.1	101.4
-5°	7.8	9.8	9.8	9.8	9.8	12.1	16.2	24.8	42.0	68.9	115.9
-7.5°	7.8	9.8	9.8	9.8	9.8	12.3	17.3	27.2	46.9	77.8	129.0
-10°	7.8	9.8	9.8	9.8	9.8	12.4	18.3	29.4	51.1	85.8	140.5
-12.5°	7.8	9.8	9.8	9.8	9.8	12.4	19.1	31.2	54.7	92.6	150.7
-15°	7.8	9.7	9.8	9.8	9.8	12.5	19.7	32.7	58.0	99.1	159.2
-17.5°	7.8	9.7	9.8	9.8	9.8	12.4	20.1	34.3	61.1	104.1	165.5
-20°	7.8	9.7	9.8	9.8	9.8	12.3	20.4	35.8	63.1	107.4	169.5



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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°	7.8	9.7	9.8	9.8	9.8	12.2	20.8	36.8	63.7	108.8	171.0
-25°	7.8	9.7	9.8	9.8	9.8	12.2	20.9	37.3	63.1	108.2	169.8
-27.5°	7.8	9.6	9.8	9.8	9.8	12.1	20.6	37.2	60.9	106.3	168.8
-30°	7.8	9.6	9.8	9.8	9.8	12.0	19.9	36.5	59.6	103.8	165.1
-32.5°	7.8	9.6	9.8	9.8	10.0	11.7	18.7	35.6	58.7	99.3	158.7
-35°	7.8	9.5	9.8	9.8	10.1	11.2	18.0	34.2	57.0	92.6	149.4
-37.5°	7.8	9.5	9.8	9.8	10.2	10.8	17.4	32.1	54.4	83.8	134.7
-40°	7.8	9.5	9.8	9.8	10.4	11.0	16.6	29.4	51.0	78.2	119.8
-42.5°	7.8	9.5	9.8	9.8	10.5	11.2	15.5	26.0	47.0	71.8	103.9
-45°	7.8	9.4	9.8	9.9	10.5	11.3	14.1	23.0	42.3	64.3	88.2
-47.5°	7.8	9.4	9.8	9.9	10.6	11.5	12.5	21.0	36.7	56.1	78.8
-50°	7.8	9.4	9.8	9.9	10.6	11.6	12.4	18.7	29.6	47.9	68.6
-52.5°	7.8	9.3	9.8	10.0	10.6	11.7	12.5	16.1	24.9	39.3	57.7
-55°	7.8	9.3	9.8	10.0	10.6	11.7	12.7	13.5	21.3	30.2	47.3
-57.5°	7.8	9.3	9.8	10.0	10.6	11.6	12.8	13.7	17.6	24.9	36.4
-60°	7.8	9.2	9.8	9.9	10.5	11.5	12.9	13.7	14.6	20.8	27.2
-62.5°	7.8	9.2	9.8	9.9	10.4	11.3	12.6	13.7	14.4	16.6	22.7
-65°	7.8	9.2	9.8	9.9	10.3	11.1	12.3	13.5	14.1	15.3	18.2
-67.5°	7.8	9.1	9.8	9.9	10.2	10.9	12.0	13.0	13.7	14.6	16.0
-70°	7.8	9.1	9.8	9.8	10.1	10.7	11.6	12.4	13.1	13.7	14.8
-72.5°	7.8	9.1	9.8	9.8	10.0	10.4	11.2	11.9	12.4	13.0	13.5
-75°	7.8	9.0	9.8	9.7	9.8	10.2	10.8	11.3	11.8	12.2	12.7
-77.5°	7.8	9.0	9.8	9.6	9.7	9.9	10.3	10.7	11.1	11.5	11.9
-80°	7.8	9.0	9.8	9.6	9.5	9.6	9.9	10.2	10.5	10.8	11.1
-82.5°	7.8	8.9	9.8	9.5	9.3	9.3	9.4	9.6	9.8	10.1	10.3
-85°	7.8	8.9	9.8	9.4	9.2	9.0	8.8	9.2	9.5	9.7	9.8
-87.5°	7.8	8.8	9.8	9.4	9.0	8.6	8.3	8.7	9.1	9.5	9.8
-90°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8





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 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-CV5-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	9.3	8.8	8.3	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
87.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.3	6.9	6.4
85°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.6	7.4	7.2
82.5°	8.4	8.3	8.1	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
80°	9.1	8.9	8.4	7.9	7.8	7.8	7.8	7.8	7.8	7.8	7.8
77.5°	9.4	8.9	8.4	7.9	7.8	7.8	7.8	7.8	7.8	7.8	7.8
75°	9.5	9.0	8.5	8.0	7.8	7.8	7.9	8.2	8.5	8.5	8.3
72.5°	9.5	9.0	8.5	8.1	8.2	8.7	9.2	9.6	10.1	10.3	10.6
70°	9.6	9.1	8.9	9.0	9.4	10.0	10.8	11.9	12.9	13.6	14.9
67.5°	9.7	9.4	9.5	9.9	10.6	11.5	12.7	15.3	18.0	19.5	21.1
65°	9.8	9.7	10.0	10.7	11.6	14.1	17.0	20.1	24.9	27.7	28.9
62.5°	9.8	9.9	10.4	11.9	14.6	17.7	21.6	27.0	33.5	38.0	38.2
60°	9.8	10.0	11.6	14.4	17.5	21.3	26.5	33.9	43.5	50.7	46.1
57.5°	9.8	10.9	13.7	16.6	20.0	24.2	31.2	40.5	49.6	59.3	50.9
55°	10.3	12.5	15.2	18.2	22.0	26.7	34.0	41.8	51.8	54.7	45.1
52.5°	11.6	13.8	16.1	19.4	23.7	27.8	32.4	39.2	42.4	43.0	35.8
50°	12.7	14.4	16.6	20.2	24.4	27.3	28.4	32.3	32.6	29.5	25.6
47.5°	13.4	15.0	16.8	20.7	24.4	26.2	25.7	24.8	22.7	20.9	16.3
45°	14.0	15.6	17.3	21.1	24.2	24.8	22.6	17.9	18.6	16.6	15.4
42.5°	14.5	16.2	18.8	21.8	23.7	23.5	20.4	18.9	17.6	17.2	16.7
40°	14.9	16.7	20.6	23.2	23.7	23.0	23.1	22.1	19.0	20.3	20.4
37.5°	15.3	18.6	23.2	27.2	24.5	25.8	27.6	28.1	26.4	25.8	28.5
35°	15.7	20.6	28.4	32.8	30.4	31.2	34.9	36.5	36.9	36.7	38.7
32.5°	17.0	22.8	35.3	39.6	40.8	41.4	43.9	47.7	51.9	53.8	51.5
30°	19.7	29.2	43.3	47.8	52.9	60.2	58.5	61.4	71.0	74.9	78.5
27.5°	24.2	37.5	51.2	59.0	68.0	84.6	90.5	84.5	92.7	100.4	112.2
25°	29.3	58.6	60.1	71.6	91.9	116.9	132.9	139.7	121.5	135.1	166.6
22.5°	40.7	86.2	91.8	85.1	119.6	156.5	188.0	204.9	202.7	189.6	231.9
20°	60.8	114.0	128.8	131.6	157.9	202.0	251.0	279.7	306.8	354.0	478.0
17.5°	84.4	144.9	168.2	191.8	239.6	278.8	320.7	363.2	427.5	567.9	988.6
15°	110.5	178.2	209.3	257.2	328.4	393.9	445.1	483.2	596.8	891.1	1635.0
12.5°	138.4	213.2	251.7	326.4	422.0	515.0	587.6	664.4	855.4	1434.1	2662.7
10°	167.0	249.3	295.0	398.0	518.6	640.0	734.1	849.7	1148.2	2048.8	3784.3
7.5°	198.8	287.8	339.0	470.4	616.4	766.6	882.5	1036.4	1447.0	2670.1	4913.0
5°	229.7	328.2	386.0	532.9	698.8	877.9	1021.1	1221.1	1742.6	3272.2	6009.8
2.5°	258.1	367.2	431.9	589.9	768.0	962.4	1115.6	1331.5	1947.2	3667.9	6817.2
0°	283.1	404.1	476.4	642.3	831.7	1040.6	1204.6	1433.0	2112.4	3906.6	7299.7
-2.5°	292.6	418.3	494.6	655.6	840.6	1053.9	1220.9	1441.8	2163.1	4003.4	7370.8
-5°	298.0	429.2	510.6	664.2	843.6	1059.0	1230.6	1441.7	2150.4	3919.5	7024.3
-7.5°	299.8	436.6	524.2	665.3	827.7	1025.0	1182.4	1366.0	1981.0	3573.0	6277.3
-10°	298.0	435.5	520.1	640.8	786.4	965.3	1117.9	1283.3	1785.5	3138.3	5446.6
-12.5°	292.6	427.5	512.3	614.9	743.5	901.1	1050.3	1195.2	1568.5	2620.9	4591.1
-15°	285.2	418.1	504.2	588.5	700.5	833.7	980.4	1102.7	1342.7	2068.9	3741.9
-17.5°	276.5	407.7	496.1	562.7	658.3	764.0	912.1	1025.6	1176.1	1716.9	3058.6
-20°	266.9	396.6	488.4	538.1	618.9	711.0	846.4	961.6	1088.9	1439.5	2325.8



REPORT NUMBER: P701497 (CONVERTED FROM TYPE C PHOTOMETRY)  
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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°	256.9	385.2	477.2	524.4	593.1	674.5	780.2	894.0	1000.4	1133.2	1703.8
-25°	251.9	368.6	460.6	515.0	569.0	639.1	716.3	823.1	918.1	1045.7	1374.9
-27.5°	249.5	353.0	441.0	504.6	545.5	606.8	670.7	753.2	861.9	974.7	1094.0
-30°	243.6	329.9	420.9	490.0	530.6	580.4	634.0	704.0	807.9	912.1	1017.5
-32.5°	229.3	305.2	395.0	466.8	516.9	555.7	607.6	671.8	755.3	851.0	945.6
-35°	210.8	283.7	365.7	443.5	501.3	538.9	586.1	641.3	706.6	792.3	893.5
-37.5°	192.3	259.7	335.1	415.6	476.1	525.7	563.3	613.4	670.2	738.1	837.7
-40°	171.7	233.4	305.5	381.1	451.9	506.3	548.3	586.1	635.2	701.9	773.2
-42.5°	149.6	208.4	274.4	345.1	415.6	478.0	531.2	566.9	608.5	666.3	731.3
-45°	130.8	181.0	241.3	306.5	372.8	441.5	498.2	550.1	588.1	632.0	689.8
-47.5°	111.0	153.5	208.4	265.4	327.8	392.2	458.5	513.6	567.1	607.2	648.1
-50°	92.4	130.5	172.6	225.6	280.7	340.6	402.3	467.7	523.9	575.7	620.3
-52.5°	79.9	106.3	143.6	185.5	235.0	287.0	344.8	404.7	466.6	525.4	571.8
-55°	66.3	88.7	115.1	150.5	190.4	236.2	285.9	341.0	395.6	453.2	506.1
-57.5°	53.2	72.5	93.0	117.9	151.4	187.3	231.1	277.0	326.9	376.3	418.4
-60°	40.3	57.0	75.2	93.7	114.3	145.6	177.5	216.2	258.6	299.6	336.6
-62.5°	28.4	42.1	58.0	74.5	91.2	107.5	133.0	161.9	190.8	225.5	257.8
-65°	23.6	29.4	41.0	55.7	70.7	85.7	100.4	114.7	138.7	163.1	185.8
-67.5°	18.7	23.9	29.2	36.5	49.7	63.2	77.1	90.2	102.9	115.2	129.4
-70°	16.6	18.7	22.9	27.8	32.8	39.5	51.3	63.4	76.0	88.5	99.5
-72.5°	15.0	17.0	19.0	20.9	24.9	29.2	33.3	37.3	45.1	55.9	66.9
-75°	13.7	15.2	17.0	18.9	20.5	22.3	24.4	28.0	31.6	35.2	39.0
-77.5°	12.5	13.5	14.8	16.5	18.1	19.4	20.8	22.4	24.1	25.9	27.7
-80°	11.4	11.7	12.4	13.3	14.6	15.9	17.2	18.4	19.6	20.8	22.1
-82.5°	10.5	10.7	11.0	11.2	11.7	12.4	13.3	14.3	15.0	15.7	16.4
-85°	9.8	9.8	9.9	10.1	10.3	10.6	11.0	11.4	11.6	11.9	12.1
-87.5°	9.5	9.3	9.1	8.9	9.0	9.1	9.2	9.2	9.3	9.3	9.4
-90°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.3	6.9	6.4



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	7.8	8.8	9.7	10.7	11.7	12.7	13.6	14.6	15.6	16.6	17.6
87.5°	5.9	5.9	5.9	5.9	5.9	5.4	4.9	4.4	3.9	3.4	3.0
85°	7.1	6.9	6.6	6.3	5.9	5.4	4.9	4.4	3.9	3.4	3.0
82.5°	7.8	7.4	6.9	6.4	5.9	5.4	4.9	4.4	3.9	3.4	3.0
80°	7.8	7.4	6.9	6.4	6.0	5.5	5.0	4.5	3.9	3.5	3.0
77.5°	7.8	7.4	7.0	6.5	6.0	5.5	5.0	4.5	4.0	3.8	3.8
75°	8.0	7.7	7.6	7.3	6.9	6.6	6.3	5.9	5.6	5.3	4.9
72.5°	10.8	10.8	10.5	10.2	9.6	9.1	8.8	8.2	7.6	7.1	6.7
70°	16.0	16.6	16.1	15.0	13.4	12.0	11.2	10.4	9.6	8.8	8.0
67.5°	22.3	22.2	20.7	18.6	15.9	13.4	12.3	11.3	10.3	9.7	9.6
65°	28.8	26.9	24.2	20.9	17.2	13.5	12.5	11.4	10.4	9.8	9.8
62.5°	36.1	30.1	24.2	20.0	16.5	13.5	12.1	10.7	9.3	8.4	8.2
60°	38.8	28.7	20.7	17.3	14.4	12.0	10.5	9.4	8.4	7.8	7.8
57.5°	37.5	25.7	16.7	13.9	11.7	10.2	9.2	8.3	7.4	6.6	6.3
55°	32.0	21.0	12.5	10.8	9.7	8.6	7.6	7.0	6.5	5.9	5.9
52.5°	23.5	16.1	11.3	9.5	8.9	8.3	7.7	7.6	7.4	7.1	7.0
50°	17.2	12.4	10.8	9.6	9.3	9.2	9.5	9.5	9.3	9.1	8.8
47.5°	14.0	12.2	11.0	9.9	10.1	11.0	11.4	11.4	11.3	11.1	10.8
45°	13.6	12.5	11.9	12.6	13.2	13.7	13.7	13.4	14.0	14.2	13.9
42.5°	15.0	15.1	16.3	17.2	16.6	17.7	18.8	18.8	19.7	20.3	20.3
40°	21.0	20.5	23.5	24.4	24.8	26.0	29.3	29.0	30.5	34.6	35.4
37.5°	30.1	31.8	33.8	35.7	40.9	44.3	50.8	56.0	58.8	66.7	72.8
35°	42.6	46.8	48.0	58.3	69.0	79.0	88.1	99.1	103.8	121.2	133.3
32.5°	60.3	69.0	80.8	98.0	118.2	142.3	141.2	177.8	191.1	226.8	267.8
30°	84.3	108.8	147.8	174.8	224.6	263.6	283.3	340.4	417.2	490.6	590.5
27.5°	137.1	188.7	259.2	352.3	400.8	459.6	548.6	616.9	792.2	959.6	1082.5
25°	235.7	344.1	477.2	614.6	700.7	777.9	940.5	1059.9	1308.4	1494.9	1761.0
22.5°	450.8	682.3	850.8	952.8	1137.5	1378.9	1496.1	1824.3	2192.8	2663.2	3051.9
20°	759.5	1123.8	1499.4	1728.7	1939.6	2472.6	2706.1	3320.9	4104.2	4989.4	5727.3
17.5°	1486.2	1819.0	2583.6	3328.5	3888.9	4415.1	5892.2	6947.3	8995.2	11501.6	12657.6
15°	2666.9	3597.2	4489.3	5840.5	7270.5	8861.4	11179.2	15181.0	20207.2	25687.8	31616.0
12.5°	4323.4	6021.6	7617.5	9318.3	11365.5	15274.6	20559.4	27548.5	36579.6	46269.1	57457.0
10°	6184.4	8768.9	11099.8	13667.8	17302.7	23110.3	30943.3	41725.2	57808.1	74247.8	88507.7
7.5°	7851.1	10981.1	14142.9	17859.8	23621.6	31916.0	43185.5	60020.0	81022.7	101367.0	118713.8
5°	9448.2	13104.7	16708.4	21138.6	28400.3	39225.4	53810.1	76905.2	103456.3	126029.9	145041.2
2.5°	10692.6	14766.3	18890.3	24100.6	32385.4	44702.1	61267.6	89221.0	121267.0	146302.1	168040.4
0°	11405.4	15312.0	19788.7	25186.8	34720.0	48136.3	65125.4	94890.4	126804.9	154626.4	175870.5
-2.5°	11265.9	15359.4	19936.0	25397.0	34433.0	47313.9	64061.4	92455.0	124219.7	149300.5	169885.7
-5°	10554.7	14299.9	18334.9	23126.0	31099.1	42836.1	59279.8	85962.2	115441.6	140528.3	161450.1
-7.5°	9445.6	12757.5	16270.1	20440.2	27183.3	37396.2	51530.6	72306.1	98425.0	121145.8	136826.9
-10°	8235.1	11149.3	14319.1	18092.9	23411.4	31417.7	42127.2	57134.9	78496.9	97429.5	111975.0
-12.5°	7087.5	9736.7	12494.1	15645.4	19670.9	25976.9	34116.4	45320.9	59091.3	74654.2	89511.5
-15°	5986.8	8313.3	10719.5	13636.4	17137.3	21415.7	26887.5	34426.1	43473.1	53673.4	64676.8
-17.5°	4939.0	6981.8	9245.7	11792.7	14685.6	17954.4	22543.4	27712.8	33456.3	40102.4	46403.6
-20°	3874.8	5762.3	7816.6	10084.1	12679.6	15659.4	18924.9	22807.9	26963.1	31504.0	36217.7



REPORT NUMBER: P701497 (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°	2957.3	4565.7	6363.1	8427.4	10864.2	13490.9	16023.8	18572.5	21646.7	24641.5	27649.2
-25°	2070.9	3346.4	5024.6	6997.9	9067.0	11262.4	13142.2	14938.7	17073.5	18993.5	20992.9
-27.5°	1523.1	2399.4	3787.2	5537.4	7393.0	8898.9	10481.5	11955.1	13500.9	14719.5	16127.8
-30°	1161.4	1666.0	2697.3	4062.5	5551.3	6863.4	8084.9	9419.2	10690.3	11748.2	12633.6
-32.5°	1059.3	1251.5	1773.6	2724.5	3800.8	4965.0	6021.8	7183.3	8249.5	9129.4	9834.3
-35°	995.5	1099.8	1252.0	1732.0	2363.0	3282.2	4164.1	5115.3	5999.0	6724.9	7308.6
-37.5°	941.1	1032.6	1122.4	1212.6	1560.2	1947.8	2584.3	3272.9	3869.8	4533.6	5051.8
-40°	873.5	976.2	1048.8	1123.0	1206.5	1303.4	1639.2	1940.8	2278.4	2747.0	3135.0
-42.5°	799.4	886.1	976.5	1049.1	1113.4	1181.9	1258.0	1333.4	1488.6	1685.6	1846.0
-45°	750.7	807.8	873.5	956.0	1031.2	1088.2	1144.7	1199.5	1251.4	1298.0	1337.0
-47.5°	698.3	746.8	800.1	856.7	912.4	975.8	1035.2	1084.9	1124.2	1161.8	1195.4
-50°	651.6	687.4	732.4	776.5	820.3	865.3	909.8	948.1	986.1	1020.3	1053.7
-52.5°	613.9	644.1	673.6	703.1	738.8	773.5	806.3	835.8	862.8	886.2	910.8
-55°	550.3	588.3	626.1	652.4	674.9	696.7	718.3	742.7	764.1	782.4	799.7
-57.5°	463.9	510.0	552.0	582.8	612.0	639.4	658.5	672.5	686.1	699.0	710.7
-60°	372.4	406.9	447.1	486.7	523.1	556.1	577.4	595.5	610.8	623.7	635.1
-62.5°	287.7	317.3	350.2	382.1	411.5	440.5	468.8	493.4	514.5	532.4	547.1
-65°	209.6	235.5	263.4	290.4	316.3	341.8	365.3	386.7	405.9	423.2	439.1
-67.5°	149.2	168.2	188.5	206.8	227.4	249.7	271.8	291.6	309.2	323.1	333.5
-70°	109.8	120.5	133.9	149.6	166.6	182.7	198.6	213.8	228.3	240.8	252.1
-72.5°	78.0	89.1	99.7	109.6	120.2	130.7	141.5	152.8	164.2	173.8	182.2
-75°	42.7	48.3	57.2	66.0	74.4	82.5	89.7	96.1	101.5	106.1	110.0
-77.5°	30.4	34.0	37.7	41.4	44.9	49.1	53.6	58.1	62.6	66.1	69.4
-80°	23.5	25.5	27.7	30.0	32.5	35.4	38.4	41.5	44.5	46.7	48.7
-82.5°	17.2	18.7	20.2	21.7	23.1	25.0	26.8	28.6	30.3	31.6	32.8
-85°	12.3	13.3	14.3	15.4	16.5	18.1	19.8	21.4	23.0	24.1	25.1
-87.5°	9.4	10.0	10.6	11.2	11.7	13.1	14.6	16.0	17.5	18.0	18.5
-90°	5.9	5.9	5.9	5.9	5.9	5.4	4.9	4.4	3.9	3.4	3.0



REPORT NUMBER: P701497 (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°
90°	18.5	19.5	19.5	19.5	19.5	19.5	18.5	17.6	16.6	15.6	14.6
87.5°	2.5	2.0	2.0	2.0	2.0	2.0	2.5	3.0	3.4	3.9	4.4
85°	2.5	2.0	2.0	2.0	2.0	2.0	2.5	3.0	3.4	3.9	4.4
82.5°	2.5	2.0	2.0	2.0	2.0	2.0	2.5	3.0	3.4	3.9	4.4
80°	2.5	2.0	2.0	2.0	2.0	2.0	2.5	3.0	3.5	3.9	4.5
77.5°	3.8	3.9	3.0	2.0	3.0	3.9	3.8	3.8	3.8	4.0	4.5
75°	4.4	3.9	3.0	2.0	3.0	3.9	4.4	4.9	5.3	5.6	5.9
72.5°	6.3	5.9	5.9	5.9	5.9	5.9	6.3	6.7	7.1	7.6	8.2
70°	7.0	6.0	5.9	5.9	5.9	6.0	7.0	8.0	8.8	9.6	10.4
67.5°	9.6	9.7	9.8	9.8	9.8	9.7	9.6	9.6	9.7	10.3	11.3
65°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	10.4	11.4
62.5°	8.0	7.9	7.8	7.8	7.8	7.9	8.0	8.2	8.4	9.3	10.7
60°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	8.4	9.4
57.5°	6.1	6.0	5.9	5.9	5.9	6.0	6.1	6.3	6.6	7.4	8.3
55°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.5	7.0
52.5°	6.6	6.1	5.9	5.9	5.9	6.1	6.6	7.0	7.1	7.4	7.6
50°	8.4	8.0	7.8	7.8	7.8	8.0	8.4	8.8	9.1	9.3	9.5
47.5°	10.4	10.0	9.8	9.8	9.8	10.0	10.4	10.8	11.1	11.3	11.4
45°	13.3	12.3	11.7	11.7	11.7	12.3	13.3	13.9	14.2	14.0	13.4
42.5°	20.2	19.7	19.3	19.5	19.3	19.7	20.2	20.3	20.3	19.7	18.8
40°	37.1	38.1	38.5	39.0	38.5	38.1	37.1	35.4	34.6	30.5	29.0
37.5°	76.1	74.6	71.3	72.2	71.3	74.6	76.1	72.8	66.7	58.8	56.0
35°	141.2	149.7	155.7	160.1	155.7	149.7	141.2	133.3	121.2	103.8	99.1
32.5°	283.0	294.6	291.3	285.0	291.3	294.6	283.0	267.8	226.8	191.1	177.8
30°	649.5	683.4	674.3	634.5	674.3	683.4	649.5	590.5	490.6	417.2	340.4
27.5°	1170.8	1252.8	1306.2	1278.8	1306.2	1252.8	1170.8	1082.5	959.6	792.2	616.9
25°	1990.6	2149.7	2263.6	2215.9	2263.6	2149.7	1990.6	1761.0	1494.9	1308.4	1059.9
22.5°	3539.4	3800.6	3955.8	3996.4	3955.8	3800.6	3539.4	3051.9	2663.2	2192.8	1824.3
20°	6655.4	6863.7	6905.0	6801.9	6905.0	6863.7	6655.4	5727.3	4989.4	4104.2	3320.9
17.5°	16013.8	16975.6	16270.6	15530.7	16270.6	16975.6	16013.8	12657.6	11501.6	8995.2	6947.3
15°	36632.3	40694.0	43007.9	43480.0	43007.9	40694.0	36632.3	31616.0	25687.8	20207.2	15181.0
12.5°	64548.2	71093.9	73795.2	73542.8	73795.2	71093.9	64548.2	57457.0	46269.1	36579.6	27548.5
10°	97655.0	104653.1	110674.4	110735.4	110674.4	104653.1	97655.0	88507.7	74247.8	57808.1	41725.2
7.5°	130754.1	138824.8	144489.5	146105.5	144489.5	138824.8	130754.1	118713.8	101367.0	81022.7	60020.0
5°	159730.2	169722.2	175346.0	177063.4	175346.0	169722.2	159730.2	145041.2	126029.9	103456.3	76905.2
2.5°	185206.1	197446.7	203614.7	204573.5	203614.7	197446.7	185206.1	168040.4	146302.1	121267.0	89221.0
0°	192215.4	203126.8	211114.8	213958.3	211114.8	203126.8	192215.4	175870.5	154626.4	126804.9	94890.4
-2.5°	185305.3	194851.5	199612.4	201598.1	199612.4	194851.5	185305.3	169885.7	149300.5	124219.7	92455.0
-5°	174382.6	183291.4	189354.7	190758.9	189354.7	183291.4	174382.6	161450.1	140528.3	115441.6	85962.2
-7.5°	147169.4	155938.4	158662.8	161751.4	158662.8	155938.4	147169.4	136826.9	121145.8	98425.0	72306.1
-10°	122962.9	129784.5	131660.7	133848.9	131660.7	129784.5	122962.9	111975.0	97429.5	78496.9	57134.9
-12.5°	101741.3	108498.3	111557.2	114175.4	111557.2	108498.3	101741.3	89511.5	74654.2	59091.3	45320.9
-15°	74539.3	80890.1	83083.8	84500.2	83083.8	80890.1	74539.3	64676.8	53673.4	43473.1	34426.1
-17.5°	53995.0	58831.7	61705.9	63372.2	61705.9	58831.7	53995.0	46403.6	40102.4	33456.3	27712.8
-20°	40361.1	43132.9	45359.3	45604.2	45359.3	43132.9	40361.1	36217.7	31504.0	26963.1	22807.9



REPORT NUMBER: P701497 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-CV5-S

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	30169.2	31820.2	32845.2	32783.3	32845.2	31820.2	30169.2	27649.2	24641.5	21646.7	18572.5
-25°	22517.8	23627.7	24333.7	24460.6	24333.7	23627.7	22517.8	20992.9	18993.5	17073.5	14938.7
-27.5°	17136.0	17917.5	18322.4	18344.0	18322.4	17917.5	17136.0	16127.8	14719.5	13500.9	11955.1
-30°	13276.2	13927.0	14358.7	14689.2	14358.7	13927.0	13276.2	12633.6	11748.2	10690.3	9419.2
-32.5°	10426.6	10982.2	11358.8	11583.1	11358.8	10982.2	10426.6	9834.3	9129.4	8249.5	7183.3
-35°	7816.8	8261.7	8528.0	8461.3	8528.0	8261.7	7816.8	7308.6	6724.9	5999.0	5115.3
-37.5°	5508.2	5885.3	6153.7	6323.6	6153.7	5885.3	5508.2	5051.8	4533.6	3869.8	3272.9
-40°	3470.7	3731.6	3917.2	4035.4	3917.2	3731.6	3470.7	3135.0	2747.0	2278.4	1940.8
-42.5°	1976.6	2074.2	2139.9	2174.9	2139.9	2074.2	1976.6	1846.0	1685.6	1488.6	1333.4
-45°	1367.1	1391.5	1409.1	1419.3	1409.1	1391.5	1367.1	1337.0	1298.0	1251.4	1199.5
-47.5°	1221.7	1241.6	1254.6	1261.2	1254.6	1241.6	1221.7	1195.4	1161.8	1124.2	1084.9
-50°	1083.7	1108.2	1123.0	1128.4	1123.0	1108.2	1083.7	1053.7	1020.3	986.1	948.1
-52.5°	933.9	953.7	967.0	974.2	967.0	953.7	933.9	910.8	886.2	862.8	835.8
-55°	814.9	827.5	834.1	835.6	834.1	827.5	814.9	799.7	782.4	764.1	742.7
-57.5°	720.8	728.9	735.3	739.9	735.3	728.9	720.8	710.7	699.0	686.1	672.5
-60°	644.3	651.3	655.0	656.0	655.0	651.3	644.3	635.1	623.7	610.8	595.5
-62.5°	558.6	566.9	573.4	577.9	573.4	566.9	558.6	547.1	532.4	514.5	493.4
-65°	453.6	466.3	473.0	476.4	473.0	466.3	453.6	439.1	423.2	405.9	386.7
-67.5°	341.8	348.2	349.9	349.5	349.9	348.2	341.8	333.5	323.1	309.2	291.6
-70°	262.5	272.1	275.6	277.2	275.6	272.1	262.5	252.1	240.8	228.3	213.8
-72.5°	189.7	196.5	200.4	203.0	200.4	196.5	189.7	182.2	173.8	164.2	152.8
-75°	113.3	116.0	117.8	119.1	117.8	116.0	113.3	110.0	106.1	101.5	96.1
-77.5°	72.5	75.5	77.0	78.1	77.0	75.5	72.5	69.4	66.1	62.6	58.1
-80°	50.6	52.4	52.6	52.7	52.6	52.4	50.6	48.7	46.7	44.5	41.5
-82.5°	33.9	35.0	35.1	35.1	35.1	35.0	33.9	32.8	31.6	30.3	28.6
-85°	26.2	27.2	27.3	27.3	27.3	27.2	26.2	25.1	24.1	23.0	21.4
-87.5°	19.0	19.5	20.5	21.5	20.5	19.5	19.0	18.5	18.0	17.5	16.0
-90°	2.5	2.0	1.0	0.0	1.0	2.0	2.5	3.0	3.4	3.9	4.4



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	13.6	12.7	11.7	10.7	9.7	8.8	7.8	7.8	7.8	7.8	7.8
87.5°	4.9	5.4	5.9	5.9	5.9	5.9	5.9	6.4	6.9	7.3	7.8
85°	4.9	5.4	5.9	6.3	6.6	6.9	7.1	7.2	7.4	7.6	7.8
82.5°	4.9	5.4	5.9	6.4	6.9	7.4	7.8	7.8	7.8	7.8	7.8
80°	5.0	5.5	6.0	6.4	6.9	7.4	7.8	7.8	7.8	7.8	7.8
77.5°	5.0	5.5	6.0	6.5	7.0	7.4	7.8	7.8	7.8	7.8	7.8
75°	6.3	6.6	6.9	7.3	7.6	7.7	8.0	8.3	8.5	8.5	8.2
72.5°	8.8	9.1	9.6	10.2	10.5	10.8	10.8	10.6	10.3	10.1	9.6
70°	11.2	12.0	13.4	15.0	16.1	16.6	16.0	14.9	13.6	12.9	11.9
67.5°	12.3	13.4	15.9	18.6	20.7	22.2	22.3	21.1	19.5	18.0	15.3
65°	12.5	13.5	17.2	20.9	24.2	26.9	28.8	28.9	27.7	24.9	20.1
62.5°	12.1	13.5	16.5	20.0	24.2	30.1	36.1	38.2	38.0	33.5	27.0
60°	10.5	12.0	14.4	17.3	20.7	28.7	38.8	46.1	50.7	43.5	33.9
57.5°	9.2	10.2	11.7	13.9	16.7	25.7	37.5	50.9	59.3	49.6	40.5
55°	7.6	8.6	9.7	10.8	12.5	21.0	32.0	45.1	54.7	51.8	41.8
52.5°	7.7	8.3	8.9	9.5	11.3	16.1	23.5	35.8	43.0	42.4	39.2
50°	9.5	9.2	9.3	9.6	10.8	12.4	17.2	25.6	29.5	32.6	32.3
47.5°	11.4	11.0	10.1	9.9	11.0	12.2	14.0	16.3	20.9	22.7	24.8
45°	13.7	13.7	13.2	12.6	11.9	12.5	13.6	15.4	16.6	18.6	17.9
42.5°	18.8	17.7	16.6	17.2	16.3	15.1	15.0	16.7	17.2	17.6	18.9
40°	29.3	26.0	24.8	24.4	23.5	20.5	21.0	20.4	20.3	19.0	22.1
37.5°	50.8	44.3	40.9	35.7	33.8	31.8	30.1	28.5	25.8	26.4	28.1
35°	88.1	79.0	69.0	58.3	48.0	46.8	42.6	38.7	36.7	36.9	36.5
32.5°	141.2	142.3	118.2	98.0	80.8	69.0	60.3	51.5	53.8	51.9	47.7
30°	283.3	263.6	224.6	174.8	147.8	108.8	84.3	78.5	74.9	71.0	61.4
27.5°	548.6	459.6	400.8	352.3	259.2	188.7	137.1	112.2	100.4	92.7	84.5
25°	940.5	777.9	700.7	614.6	477.2	344.1	235.7	166.6	135.1	121.5	139.7
22.5°	1496.1	1378.9	1137.5	952.8	850.8	682.3	450.8	231.9	189.6	202.7	204.9
20°	2706.1	2472.6	1939.6	1728.7	1499.4	1123.8	759.5	478.0	354.0	306.8	279.7
17.5°	5892.2	4415.1	3888.9	3328.5	2583.6	1819.0	1486.2	988.6	567.9	427.5	363.2
15°	11179.2	8861.4	7270.5	5840.5	4489.3	3597.2	2666.9	1635.0	891.1	596.8	483.2
12.5°	20559.4	15274.6	11365.5	9318.3	7617.5	6021.6	4323.4	2662.7	1434.1	855.4	664.4
10°	30943.3	23110.3	17302.7	13667.8	11099.8	8768.9	6184.4	3784.3	2048.8	1148.2	849.7
7.5°	43185.5	31916.0	23621.6	17859.8	14142.9	10981.1	7851.1	4913.0	2670.1	1447.0	1036.4
5°	53810.1	39225.4	28400.3	21138.6	16708.4	13104.7	9448.2	6009.8	3272.2	1742.6	1221.1
2.5°	61267.6	44702.1	32385.4	24100.6	18890.3	14766.3	10692.6	6817.2	3667.9	1947.2	1331.5
0°	65125.4	48136.3	34720.0	25186.8	19788.7	15312.0	11405.4	7299.7	3906.6	2112.4	1433.0
-2.5°	64061.4	47313.9	34433.0	25397.0	19936.0	15359.4	11265.9	7370.8	4003.4	2163.1	1441.8
-5°	59279.8	42836.1	31099.1	23126.0	18334.9	14299.9	10554.7	7024.3	3919.5	2150.4	1441.7
-7.5°	51530.6	37396.2	27183.3	20440.2	16270.1	12757.5	9445.6	6277.3	3573.0	1981.0	1366.0
-10°	42127.2	31417.7	23411.4	18092.9	14319.1	11149.3	8235.1	5446.6	3138.3	1785.5	1283.3
-12.5°	34116.4	25976.9	19670.9	15645.4	12494.1	9736.7	7087.5	4591.1	2620.9	1568.5	1195.2
-15°	26887.5	21415.7	17137.3	13636.4	10719.5	8313.3	5986.8	3741.9	2068.9	1342.7	1102.7
-17.5°	22543.4	17954.4	14685.6	11792.7	9245.7	6981.8	4939.0	3058.6	1716.9	1176.1	1025.6
-20°	18924.9	15659.4	12679.6	10084.1	7816.6	5762.3	3874.8	2325.8	1439.5	1088.9	961.6





REPORT NUMBER: P701497 (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°	16023.8	13490.9	10864.2	8427.4	6363.1	4565.7	2957.3	1703.8	1133.2	1000.4	894.0
-25°	13142.2	11262.4	9067.0	6997.9	5024.6	3346.4	2070.9	1374.9	1045.7	918.1	823.1
-27.5°	10481.5	8898.9	7393.0	5537.4	3787.2	2399.4	1523.1	1094.0	974.7	861.9	753.2
-30°	8084.9	6863.4	5551.3	4062.5	2697.3	1666.0	1161.4	1017.5	912.1	807.9	704.0
-32.5°	6021.8	4965.0	3800.8	2724.5	1773.6	1251.5	1059.3	945.6	851.0	755.3	671.8
-35°	4164.1	3282.2	2363.0	1732.0	1252.0	1099.8	995.5	893.5	792.3	706.6	641.3
-37.5°	2584.3	1947.8	1560.2	1212.6	1122.4	1032.6	941.1	837.7	738.1	670.2	613.4
-40°	1639.2	1303.4	1206.5	1123.0	1048.8	976.2	873.5	773.2	701.9	635.2	586.1
-42.5°	1258.0	1181.9	1113.4	1049.1	976.5	886.1	799.4	731.3	666.3	608.5	566.9
-45°	1144.7	1088.2	1031.2	956.0	873.5	807.8	750.7	689.8	632.0	588.1	550.1
-47.5°	1035.2	975.8	912.4	856.7	800.1	746.8	698.3	648.1	607.2	567.1	513.6
-50°	909.8	865.3	820.3	776.5	732.4	687.4	651.6	620.3	575.7	523.9	467.7
-52.5°	806.3	773.5	738.8	703.1	673.6	644.1	613.9	571.8	525.4	466.6	404.7
-55°	718.3	696.7	674.9	652.4	626.1	588.3	550.3	506.1	453.2	395.6	341.0
-57.5°	658.5	639.4	612.0	582.8	552.0	510.0	463.9	418.4	376.3	326.9	277.0
-60°	577.4	556.1	523.1	486.7	447.1	406.9	372.4	336.6	299.6	258.6	216.2
-62.5°	468.8	440.5	411.5	382.1	350.2	317.3	287.7	257.8	225.5	190.8	161.9
-65°	365.3	341.8	316.3	290.4	263.4	235.5	209.6	185.8	163.1	138.7	114.7
-67.5°	271.8	249.7	227.4	206.8	188.5	168.2	149.2	129.4	115.2	102.9	90.2
-70°	198.6	182.7	166.6	149.6	133.9	120.5	109.8	99.5	88.5	76.0	63.4
-72.5°	141.5	130.7	120.2	109.6	99.7	89.1	78.0	66.9	55.9	45.1	37.3
-75°	89.7	82.5	74.4	66.0	57.2	48.3	42.7	39.0	35.2	31.6	28.0
-77.5°	53.6	49.1	44.9	41.4	37.7	34.0	30.4	27.7	25.9	24.1	22.4
-80°	38.4	35.4	32.5	30.0	27.7	25.5	23.5	22.1	20.8	19.6	18.4
-82.5°	26.8	25.0	23.1	21.7	20.2	18.7	17.2	16.4	15.7	15.0	14.3
-85°	19.8	18.1	16.5	15.4	14.3	13.3	12.3	12.1	11.9	11.6	11.4
-87.5°	14.6	13.1	11.7	11.2	10.6	10.0	9.4	9.4	9.3	9.3	9.2
-90°	4.9	5.4	5.9	5.9	5.9	5.9	5.9	6.4	6.9	7.3	7.8





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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	7.8	7.8	7.8	7.8	8.3	8.8	9.3	9.8	9.3	8.8	8.3
87.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	8.0	8.1	8.3
85°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	8.2	8.5	8.7
82.5°	7.8	7.8	7.8	7.8	8.1	8.3	8.4	8.4	8.5	8.9	9.2
80°	7.8	7.8	7.8	7.9	8.4	8.9	9.1	9.2	9.1	9.2	9.4
77.5°	7.8	7.8	7.8	7.9	8.4	8.9	9.4	9.8	9.7	9.5	9.6
75°	7.9	7.8	7.8	8.0	8.5	9.0	9.5	9.8	9.8	9.8	9.7
72.5°	9.2	8.7	8.2	8.1	8.5	9.0	9.5	9.8	9.8	9.8	9.8
70°	10.8	10.0	9.4	9.0	8.9	9.1	9.6	9.8	9.8	9.8	9.8
67.5°	12.7	11.5	10.6	9.9	9.5	9.4	9.7	9.8	9.8	9.8	9.8
65°	17.0	14.1	11.6	10.7	10.0	9.7	9.8	9.8	9.8	9.8	9.8
62.5°	21.6	17.7	14.6	11.9	10.4	9.9	9.8	9.8	9.8	9.8	9.8
60°	26.5	21.3	17.5	14.4	11.6	10.0	9.8	9.8	9.8	9.8	9.8
57.5°	31.2	24.2	20.0	16.6	13.7	10.9	9.8	9.8	9.8	9.8	9.8
55°	34.0	26.7	22.0	18.2	15.2	12.5	10.3	9.8	9.8	9.8	9.8
52.5°	32.4	27.8	23.7	19.4	16.1	13.8	11.6	9.8	9.8	9.8	9.8
50°	28.4	27.3	24.4	20.2	16.6	14.4	12.7	10.7	9.8	9.8	9.9
47.5°	25.7	26.2	24.4	20.7	16.8	15.0	13.4	11.5	9.8	9.8	10.1
45°	22.6	24.8	24.2	21.1	17.3	15.6	14.0	12.2	10.4	9.9	10.2
42.5°	20.4	23.5	23.7	21.8	18.8	16.2	14.5	12.7	10.9	10.0	10.4
40°	23.1	23.0	23.7	23.2	20.6	16.7	14.9	13.1	11.4	10.3	10.5
37.5°	27.6	25.8	24.5	27.2	23.2	18.6	15.3	13.5	12.0	10.8	10.6
35°	34.9	31.2	30.4	32.8	28.4	20.6	15.7	13.9	12.9	11.4	10.7
32.5°	43.9	41.4	40.8	39.6	35.3	22.8	17.0	15.3	14.0	11.9	10.8
30°	58.5	60.2	52.9	47.8	43.3	29.2	19.7	16.9	15.3	12.4	11.0
27.5°	90.5	84.6	68.0	59.0	51.2	37.5	24.2	18.8	16.7	13.1	11.4
25°	132.9	116.9	91.9	71.6	60.1	58.6	29.3	21.0	18.2	14.2	11.9
22.5°	188.0	156.5	119.6	85.1	91.8	86.2	40.7	25.1	19.9	15.4	12.2
20°	251.0	202.0	157.9	131.6	128.8	114.0	60.8	29.5	21.7	16.6	12.6
17.5°	320.7	278.8	239.6	191.8	168.2	144.9	84.4	34.1	23.6	17.8	13.0
15°	445.1	393.9	328.4	257.2	209.3	178.2	110.5	38.8	25.5	19.1	13.5
12.5°	587.6	515.0	422.0	326.4	251.7	213.2	138.4	43.5	27.4	20.8	14.5
10°	734.1	640.0	518.6	398.0	295.0	249.3	167.0	49.7	31.4	23.1	15.5
7.5°	882.5	766.6	616.4	470.4	339.0	287.8	198.8	59.1	35.8	25.2	16.5
5°	1021.1	877.9	698.8	532.9	386.0	328.2	229.7	68.3	40.2	27.3	17.5
2.5°	1115.6	962.4	768.0	589.9	431.9	367.2	258.1	77.4	44.6	29.3	18.6
0°	1204.6	1040.6	831.7	642.3	476.4	404.1	283.1	85.9	48.8	31.2	19.5
-2.5°	1220.9	1053.9	840.6	655.6	494.6	418.3	292.6	101.4	59.1	36.8	22.2
-5°	1230.6	1059.0	843.6	664.2	510.6	429.2	298.0	115.9	68.9	42.0	24.8
-7.5°	1182.4	1025.0	827.7	665.3	524.2	436.6	299.8	129.0	77.8	46.9	27.2
-10°	1117.9	965.3	786.4	640.8	520.1	435.5	298.0	140.5	85.8	51.1	29.4
-12.5°	1050.3	901.1	743.5	614.9	512.3	427.5	292.6	150.7	92.6	54.7	31.2
-15°	980.4	833.7	700.5	588.5	504.2	418.1	285.2	159.2	99.1	58.0	32.7
-17.5°	912.1	764.0	658.3	562.7	496.1	407.7	276.5	165.5	104.1	61.1	34.3
-20°	846.4	711.0	618.9	538.1	488.4	396.6	266.9	169.5	107.4	63.1	35.8



REPORT NUMBER: P701497 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-CV5-S

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	780.2	674.5	593.1	524.4	477.2	385.2	256.9	171.0	108.8	63.7	36.8
-25°	716.3	639.1	569.0	515.0	460.6	368.6	251.9	169.8	108.2	63.1	37.3
-27.5°	670.7	606.8	545.5	504.6	441.0	353.0	249.5	168.8	106.3	60.9	37.2
-30°	634.0	580.4	530.6	490.0	420.9	329.9	243.6	165.1	103.8	59.6	36.5
-32.5°	607.6	555.7	516.9	466.8	395.0	305.2	229.3	158.7	99.3	58.7	35.6
-35°	586.1	538.9	501.3	443.5	365.7	283.7	210.8	149.4	92.6	57.0	34.2
-37.5°	563.3	525.7	476.1	415.6	335.1	259.7	192.3	134.7	83.8	54.4	32.1
-40°	548.3	506.3	451.9	381.1	305.5	233.4	171.7	119.8	78.2	51.0	29.4
-42.5°	531.2	478.0	415.6	345.1	274.4	208.4	149.6	103.9	71.8	47.0	26.0
-45°	498.2	441.5	372.8	306.5	241.3	181.0	130.8	88.2	64.3	42.3	23.0
-47.5°	458.5	392.2	327.8	265.4	208.4	153.5	111.0	78.8	56.1	36.7	21.0
-50°	402.3	340.6	280.7	225.6	172.6	130.5	92.4	68.6	47.9	29.6	18.7
-52.5°	344.8	287.0	235.0	185.5	143.6	106.3	79.9	57.7	39.3	24.9	16.1
-55°	285.9	236.2	190.4	150.5	115.1	88.7	66.3	47.3	30.2	21.3	13.5
-57.5°	231.1	187.3	151.4	117.9	93.0	72.5	53.2	36.4	24.9	17.6	13.7
-60°	177.5	145.6	114.3	93.7	75.2	57.0	40.3	27.2	20.8	14.6	13.7
-62.5°	133.0	107.5	91.2	74.5	58.0	42.1	28.4	22.7	16.6	14.4	13.7
-65°	100.4	85.7	70.7	55.7	41.0	29.4	23.6	18.2	15.3	14.1	13.5
-67.5°	77.1	63.2	49.7	36.5	29.2	23.9	18.7	16.0	14.6	13.7	13.0
-70°	51.3	39.5	32.8	27.8	22.9	18.7	16.6	14.8	13.7	13.1	12.4
-72.5°	33.3	29.2	24.9	20.9	19.0	17.0	15.0	13.5	13.0	12.4	11.9
-75°	24.4	22.3	20.5	18.9	17.0	15.2	13.7	12.7	12.2	11.8	11.3
-77.5°	20.8	19.4	18.1	16.5	14.8	13.5	12.5	11.9	11.5	11.1	10.7
-80°	17.2	15.9	14.6	13.3	12.4	11.7	11.4	11.1	10.8	10.5	10.2
-82.5°	13.3	12.4	11.7	11.2	11.0	10.7	10.5	10.3	10.1	9.8	9.6
-85°	11.0	10.6	10.3	10.1	9.9	9.8	9.8	9.8	9.7	9.5	9.2
-87.5°	9.2	9.1	9.0	8.9	9.1	9.3	9.5	9.8	9.5	9.1	8.7
-90°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8



REPORT NUMBER: P701497 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	7.8	8.3	8.8	9.3	9.8	8.8	7.8
87.5°	8.3	8.2	8.1	8.1	8.0	7.9	7.8
85°	8.8	8.7	8.5	8.3	8.1	8.0	7.8
82.5°	9.3	9.1	8.8	8.6	8.3	8.1	7.8
80°	9.8	9.5	9.2	8.8	8.5	8.1	7.8
77.5°	9.8	9.8	9.5	9.1	8.7	8.2	7.8
75°	9.8	9.8	9.8	9.3	8.8	8.3	7.8
72.5°	9.8	9.8	9.8	9.6	9.0	8.4	7.8
70°	9.8	9.8	9.8	9.8	9.2	8.5	7.8
67.5°	9.8	9.8	9.8	9.8	9.3	8.6	7.8
65°	9.8	9.8	9.8	9.8	9.5	8.6	7.8
62.5°	9.8	9.8	9.8	9.8	9.6	8.7	7.8
60°	9.8	9.8	9.8	9.8	9.8	8.8	7.8
57.5°	9.8	9.8	9.8	9.8	9.8	8.9	7.8
55°	9.8	9.8	9.8	9.8	9.8	8.9	7.8
52.5°	9.8	9.8	9.8	9.8	9.8	9.0	7.8
50°	9.8	9.8	9.8	9.8	9.8	9.1	7.8
47.5°	9.8	9.8	9.8	9.8	9.8	9.2	7.8
45°	10.0	9.8	9.8	9.8	9.8	9.2	7.8
42.5°	10.2	9.8	9.8	9.8	9.8	9.3	7.8
40°	10.4	9.8	9.8	9.8	9.8	9.3	7.8
37.5°	10.6	9.8	9.8	9.8	9.8	9.4	7.8
35°	10.9	9.9	9.8	9.8	9.8	9.4	7.8
32.5°	11.1	10.1	9.8	9.8	9.8	9.5	7.8
30°	11.2	10.3	9.8	9.8	9.8	9.5	7.8
27.5°	11.3	10.5	9.8	9.8	9.8	9.6	7.8
25°	11.4	10.8	9.8	9.8	9.8	9.6	7.8
22.5°	11.5	11.0	9.8	9.8	9.8	9.6	7.8
20°	11.7	11.1	9.8	9.8	9.8	9.7	7.8
17.5°	11.8	11.3	9.8	9.8	9.8	9.7	7.8
15°	12.0	11.4	9.8	9.8	9.8	9.7	7.8
12.5°	12.3	11.5	9.8	9.8	9.8	9.8	7.8
10°	12.5	11.6	9.8	9.8	9.8	9.8	7.8
7.5°	12.8	11.6	9.8	9.8	9.8	9.8	7.8
5°	13.1	11.7	9.8	9.8	9.8	9.8	7.8
2.5°	13.4	11.7	9.8	9.8	9.8	9.8	7.8
0°	13.7	11.7	9.8	9.8	9.8	9.8	7.8
-2.5°	15.0	11.9	9.8	9.8	9.8	9.8	7.8
-5°	16.2	12.1	9.8	9.8	9.8	9.8	7.8
-7.5°	17.3	12.3	9.8	9.8	9.8	9.8	7.8
-10°	18.3	12.4	9.8	9.8	9.8	9.8	7.8
-12.5°	19.1	12.4	9.8	9.8	9.8	9.8	7.8
-15°	19.7	12.5	9.8	9.8	9.8	9.7	7.8
-17.5°	20.1	12.4	9.8	9.8	9.8	9.7	7.8
-20°	20.4	12.3	9.8	9.8	9.8	9.7	7.8



REPORT NUMBER: P701497 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-CV5-S

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	20.8	12.2	9.8	9.8	9.8	9.7	7.8
-25°	20.9	12.2	9.8	9.8	9.8	9.7	7.8
-27.5°	20.6	12.1	9.8	9.8	9.8	9.6	7.8
-30°	19.9	12.0	9.8	9.8	9.8	9.6	7.8
-32.5°	18.7	11.7	10.0	9.8	9.8	9.6	7.8
-35°	18.0	11.2	10.1	9.8	9.8	9.5	7.8
-37.5°	17.4	10.8	10.2	9.8	9.8	9.5	7.8
-40°	16.6	11.0	10.4	9.8	9.8	9.5	7.8
-42.5°	15.5	11.2	10.5	9.8	9.8	9.5	7.8
-45°	14.1	11.3	10.5	9.9	9.8	9.4	7.8
-47.5°	12.5	11.5	10.6	9.9	9.8	9.4	7.8
-50°	12.4	11.6	10.6	9.9	9.8	9.4	7.8
-52.5°	12.5	11.7	10.6	10.0	9.8	9.3	7.8
-55°	12.7	11.7	10.6	10.0	9.8	9.3	7.8
-57.5°	12.8	11.6	10.6	10.0	9.8	9.3	7.8
-60°	12.9	11.5	10.5	9.9	9.8	9.2	7.8
-62.5°	12.6	11.3	10.4	9.9	9.8	9.2	7.8
-65°	12.3	11.1	10.3	9.9	9.8	9.2	7.8
-67.5°	12.0	10.9	10.2	9.9	9.8	9.1	7.8
-70°	11.6	10.7	10.1	9.8	9.8	9.1	7.8
-72.5°	11.2	10.4	10.0	9.8	9.8	9.1	7.8
-75°	10.8	10.2	9.8	9.7	9.8	9.0	7.8
-77.5°	10.3	9.9	9.7	9.6	9.8	9.0	7.8
-80°	9.9	9.6	9.5	9.6	9.8	9.0	7.8
-82.5°	9.4	9.3	9.3	9.5	9.8	8.9	7.8
-85°	8.8	9.0	9.2	9.4	9.8	8.9	7.8
-87.5°	8.3	8.6	9.0	9.4	9.8	8.8	7.8
-90°	7.8	7.8	7.8	7.8	7.8	7.8	7.8

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)



Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report

