

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: P731316 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-70-3S-CV5**

Issue Date: 11/16/2023

**Test Information**

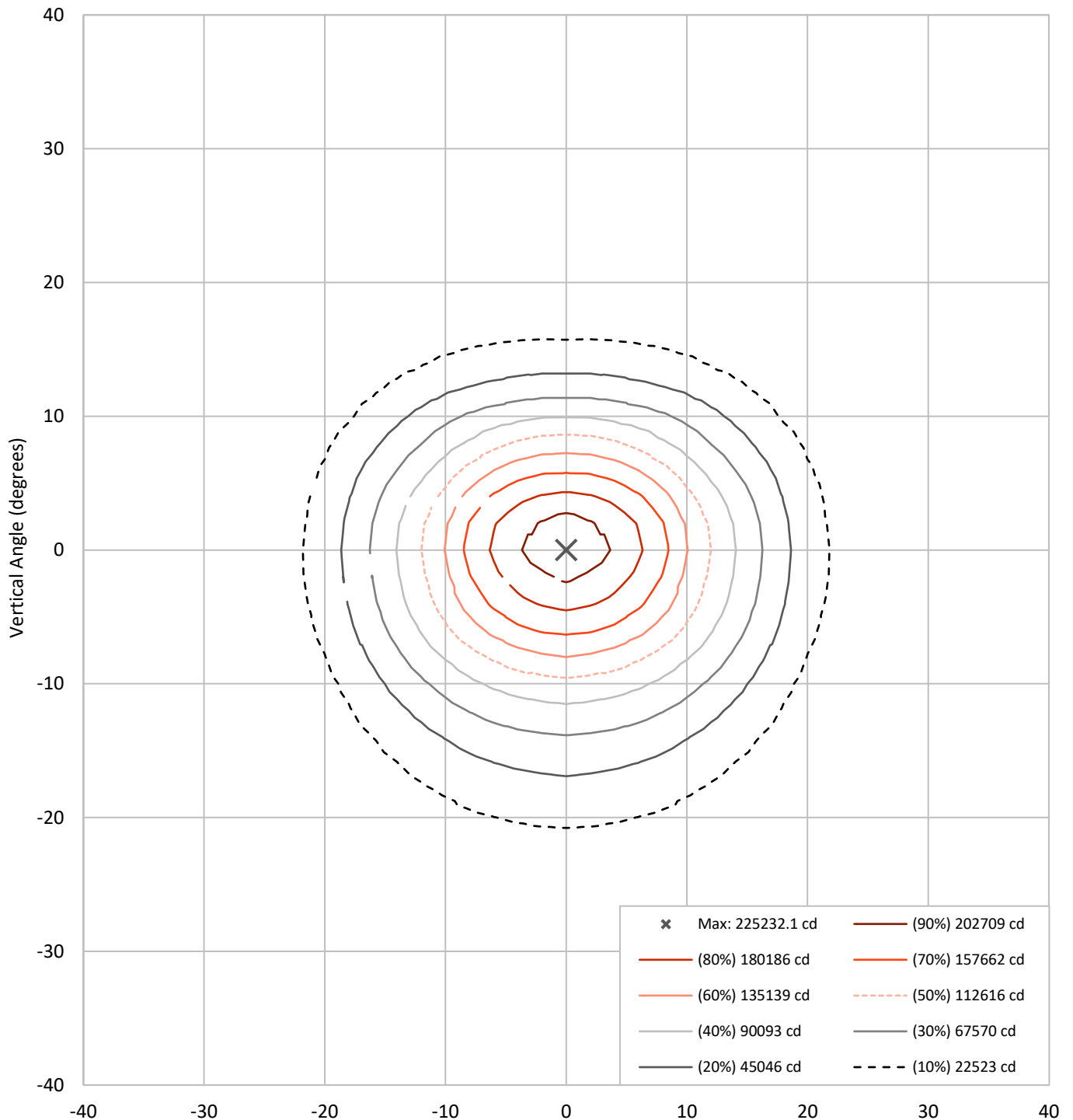
Test Method: LM-79-08  
Report Number: P731316 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320N-40-70-3S-CV5  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 70 CRI LEDS AND 3S BEAM SHAPE WITH 5 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	37653.2 lumens	Max Intensity:	225232.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	108.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	24°H x 18.2°V	Field Angle (10%):	43.7°H x 36.4°V
Beam Lumens:	16107.2 lumens	Field Lumens:	32178.4 lumens
Beam Efficiency:	42.8%	Field Efficiency:	85.5%
Input Watts (W):	345.8		
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





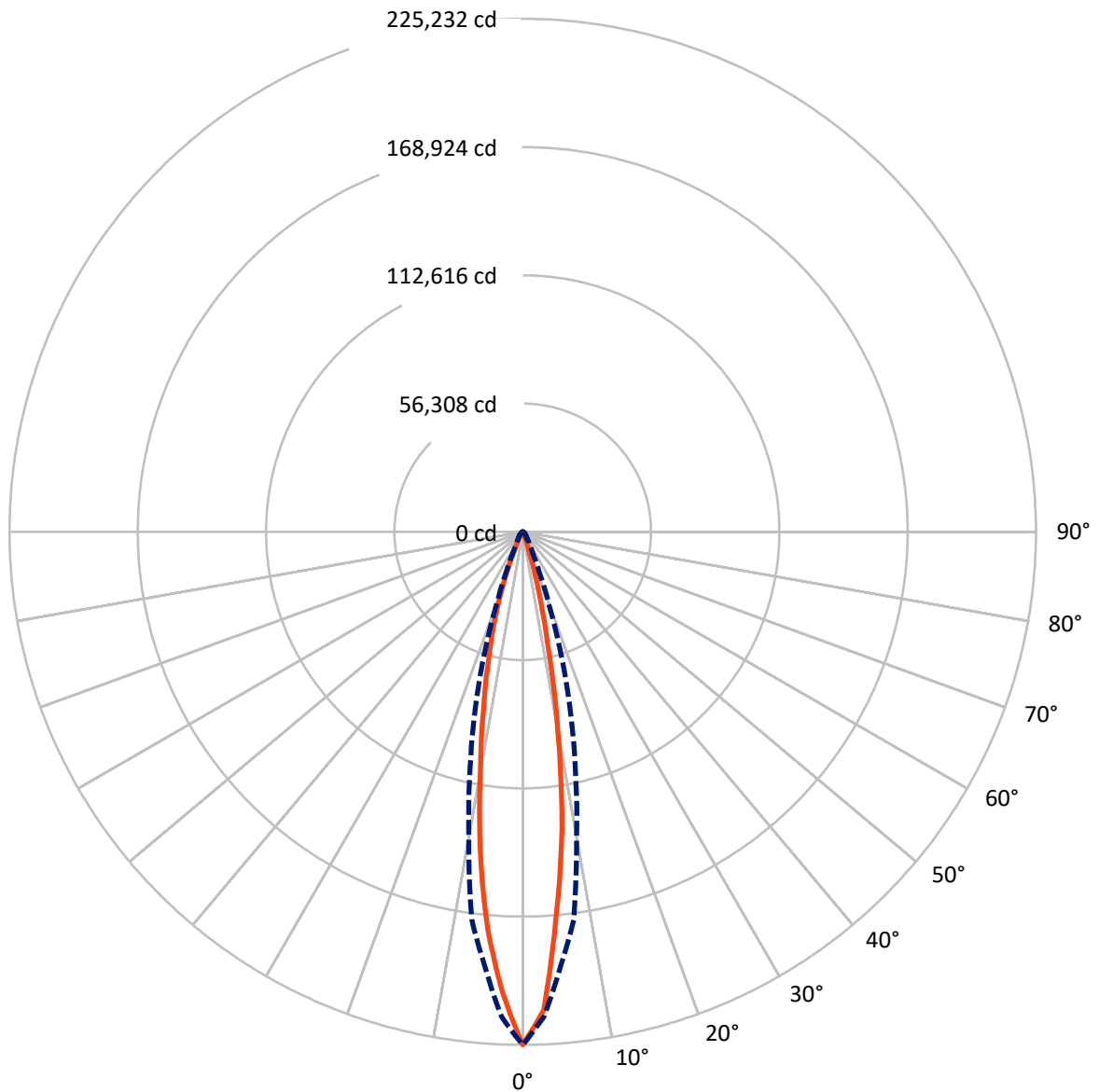
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### Lumen Table

90	0.1		0.3		0.5		0.5		0.6		0.5		0.5		0.3		0.1		
80	0.1		0.3		0.5		0.5		0.6		0.5		0.5		0.3		0.1		
70	0.1	0.1	0.1	0.4	0.5	0.3	0.2	0.2	0.2	0.2	0.3	0.5	0.4	0.1	0.1	0.1			
60		0.1	0.3	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.3	0.1				
50	0.1	0.1	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.1	0.1			
40		0.1	0.4	0.6	1.0	1.5	1.8	2.4	2.4	1.8	1.5	1.0	0.6	0.4	0.1				
30	0.2	0.3	1.1	2.6	5.0	7.6	17.1	34.4	34.4	17.1	7.6	5.0	2.6	1.1	0.3	0.2			
20		0.7	3.9	12.4	27.1	72.7	403.3	922.9	922.9	403.3	72.7	27.1	12.4	3.9	0.7				
10	0.2	1.4	8.1	29.3	68.3	300.3	1883.6	4396.8	4396.8	1883.6	300.3	68.3	29.3	8.1	1.4	0.2			
0		1.8	9.7	34.3	76.6	320.1	2009.0	4528.5	4528.5	2009.0	320.1	76.6	34.3	9.7	1.8				
-10	0.4	1.9	8.3	26.0	54.4	138.0	729.4	1641.6	1641.6	729.4	138.0	54.4	26.0	8.3	1.9	0.4			
-20		1.9	6.7	16.3	38.4	65.1	141.2	284.0	284.0	141.2	65.1	38.4	16.3	6.7	1.9				
-30	0.3	1.7	5.4	11.4	24.8	44.9	61.0	71.1	71.1	61.0	44.9	24.8	11.4	5.4	1.7	0.3			
-40		1.2	4.0	8.6	15.5	25.2	38.6	48.5	48.5	38.6	25.2	15.5	8.6	4.0	1.2				
-50	0.2	0.6	2.4	5.5	9.8	14.4	18.3	20.5	20.5	18.3	14.4	9.8	5.5	2.4	0.6	0.2			
-60		0.2	0.8	2.4	4.4	6.8	9.1	10.5	10.5	9.1	6.8	4.4	2.4	0.8	0.2				
-70	0.1	0.6		1.8		4.9		7.5		4.9		1.8		0.6		0.1			
-80		0.6		1.8		4.9		7.5		4.9		1.8		0.6					
-90	0.1		0.6		1.8		4.9		7.5		4.9		1.8		0.6		0.1		

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CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-CV5

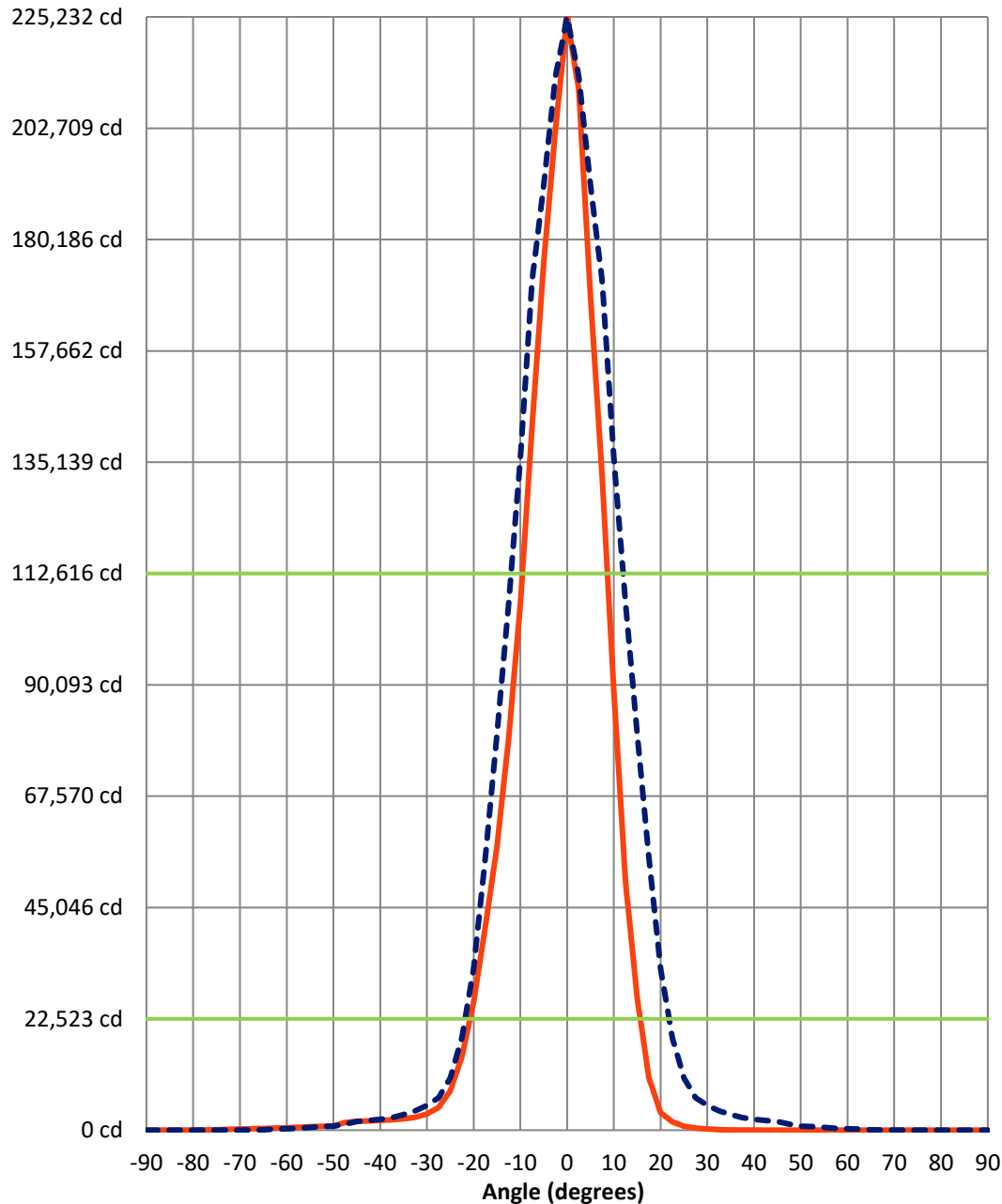
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 24°  
 V Angle: 18.2°  
 Lumens: 16107.2  
 Efficiency: 42.8%

**Field:**  
 H Angle: 43.7°  
 V Angle: 36.4°  
 Lumens: 32178.4  
 Efficiency: 85.5%

**Spill:**  
 Lumens: 5474.8  
 Efficiency: 14.5%

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



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
85°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
82.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
80°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
77.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
75°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
72.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
70°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.2
67.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.2	5.6
65°	4.8	4.8	4.8	4.8	4.8	4.8	4.9	4.8	5.2	5.6	5.8
62.5°	4.8	4.8	4.8	4.8	4.8	4.9	4.9	5.0	5.5	5.9	5.5
60°	4.8	4.8	4.8	4.8	4.8	5.0	5.0	5.3	5.8	5.7	5.2
57.5°	4.8	4.8	4.8	4.8	4.9	5.1	5.2	5.6	5.8	5.6	5.2
55°	4.8	4.8	4.8	4.8	5.0	5.2	5.4	5.9	5.8	5.5	5.3
52.5°	4.8	4.8	4.8	4.8	5.1	5.4	5.6	5.9	5.8	5.5	5.3
50°	4.8	4.8	4.9	4.8	5.3	5.5	5.8	6.0	5.8	5.6	6.4
47.5°	4.8	4.8	4.9	4.8	5.4	5.6	5.9	6.1	5.9	5.7	7.4
45°	4.8	4.8	4.9	4.9	5.5	5.7	6.0	6.2	6.0	6.3	8.1
42.5°	4.8	4.8	5.0	5.0	5.7	5.8	6.1	6.3	6.2	6.7	8.9
40°	4.8	4.8	5.0	5.2	5.7	5.8	6.3	6.5	6.4	6.9	9.7
37.5°	4.8	4.8	5.1	5.3	5.8	5.9	6.4	6.7	6.9	7.7	10.4
35°	4.8	4.8	5.1	5.4	5.8	6.0	6.6	6.9	7.5	8.9	10.8
32.5°	4.8	4.8	5.1	5.5	5.9	6.1	6.8	7.1	8.0	10.2	11.9
30°	4.8	4.8	5.2	5.6	5.9	6.2	6.9	7.4	8.6	11.5	13.2
27.5°	4.8	4.8	5.3	5.6	5.9	6.4	7.1	7.9	9.4	12.9	14.7
25°	4.8	4.8	5.3	5.7	5.9	6.5	7.4	8.4	10.5	14.2	16.6
22.5°	4.8	4.8	5.4	5.8	5.9	6.6	7.6	8.8	11.6	15.6	20.0
20°	4.8	4.8	5.4	5.8	5.9	6.7	7.8	9.3	12.7	17.1	23.7
17.5°	4.8	4.8	5.5	5.8	5.9	6.8	8.0	9.8	13.8	18.7	27.7
15°	4.8	4.8	5.6	5.9	5.9	6.9	8.0	10.3	14.8	20.4	32.0
12.5°	4.8	4.8	5.6	5.9	5.9	7.0	8.1	10.9	16.0	22.1	36.3
10°	4.8	4.8	5.7	5.9	5.9	7.0	8.2	11.6	17.2	24.9	41.6
7.5°	4.8	4.8	5.7	5.9	5.9	7.0	8.2	12.3	18.4	28.0	49.0
5°	4.8	4.8	5.8	5.9	5.9	7.1	8.3	13.0	19.5	31.0	56.4
2.5°	4.8	4.8	5.8	5.9	5.9	7.1	8.3	13.7	20.5	34.1	63.5
0°	4.8	4.8	5.9	5.9	5.9	7.1	8.3	14.3	21.4	36.9	70.2
-2.5°	4.8	4.8	5.9	5.9	6.0	7.4	9.4	17.1	27.2	45.4	80.4
-5°	4.8	4.8	5.9	5.9	6.1	7.6	10.5	19.7	32.7	53.4	89.8
-7.5°	4.8	4.8	5.9	5.9	6.2	7.8	11.5	22.0	37.8	60.9	98.4
-10°	4.8	4.8	5.9	5.9	6.3	8.0	12.4	24.2	42.4	67.8	106.1
-12.5°	4.8	4.8	5.8	5.9	6.4	8.2	13.1	25.9	46.4	73.9	113.1
-15°	4.8	4.8	5.8	5.9	6.4	8.3	13.7	27.3	50.0	79.5	119.2
-17.5°	4.8	4.8	5.8	5.9	6.5	8.4	14.1	28.8	53.4	84.3	124.0
-20°	4.8	4.8	5.8	5.9	6.5	8.5	14.5	30.3	56.0	88.3	127.6



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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-CV5

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.8	4.8	5.7	5.9	6.5	8.5	15.0	31.0	57.6	91.3	129.9
-25°	4.8	4.8	5.7	5.9	6.5	8.6	15.0	31.1	58.3	93.4	130.8
-27.5°	4.8	4.8	5.7	5.9	6.5	8.7	14.7	30.4	57.9	94.4	132.6
-30°	4.8	4.8	5.6	5.9	6.5	8.7	13.9	28.9	56.9	93.7	133.3
-32.5°	4.8	4.8	5.6	5.9	6.5	8.6	12.7	27.8	55.1	91.6	132.6
-35°	4.8	4.8	5.5	5.9	6.5	8.4	12.2	26.4	52.1	88.0	130.7
-37.5°	4.8	4.8	5.4	5.9	6.4	8.3	12.0	24.3	48.0	82.9	122.0
-40°	4.8	4.8	5.4	5.9	6.3	8.2	11.7	21.5	42.6	76.9	111.2
-42.5°	4.8	4.8	5.3	5.9	6.3	8.1	11.3	18.0	37.9	67.6	99.3
-45°	4.8	4.8	5.3	5.9	6.3	8.0	10.8	15.3	33.0	57.1	86.5
-47.5°	4.8	4.8	5.2	5.9	6.3	7.7	10.2	14.6	27.2	46.0	73.9
-50°	4.8	4.8	5.1	5.8	6.3	7.5	9.8	13.7	20.1	37.9	60.4
-52.5°	4.8	4.8	5.0	5.7	6.2	7.2	9.4	12.7	16.9	29.5	46.7
-55°	4.8	4.8	5.0	5.6	6.1	7.0	8.9	11.6	15.4	20.7	36.8
-57.5°	4.8	4.8	4.9	5.5	6.0	6.8	8.4	10.8	13.8	17.3	26.6
-60°	4.8	4.8	4.8	5.4	5.9	6.6	7.8	10.0	12.3	15.5	18.8
-62.5°	4.8	4.8	4.8	5.3	5.8	6.3	7.4	9.1	11.3	13.6	16.7
-65°	4.8	4.8	4.8	5.2	5.7	6.1	7.0	8.3	10.2	12.2	14.5
-67.5°	4.8	4.8	4.8	5.1	5.6	5.9	6.5	7.7	9.2	11.1	12.9
-70°	4.8	4.8	4.8	5.0	5.5	5.8	6.0	7.1	8.5	9.8	11.5
-72.5°	4.8	4.8	4.8	5.0	5.4	5.7	5.9	6.5	7.8	9.0	10.3
-75°	4.8	4.8	4.8	5.0	5.3	5.7	5.9	6.3	7.0	8.2	9.3
-77.5°	4.8	4.8	4.8	5.0	5.3	5.6	5.9	6.1	6.7	7.4	8.4
-80°	4.8	4.8	4.8	4.9	5.2	5.5	5.9	6.0	6.3	6.8	7.5
-82.5°	4.8	4.8	4.8	4.9	5.1	5.3	5.6	5.8	5.9	6.2	6.5
-85°	4.8	4.8	4.8	4.9	5.0	5.2	5.4	5.5	5.6	5.6	5.7
-87.5°	4.8	4.8	4.8	4.8	4.9	5.0	5.1	5.1	5.2	5.2	5.3
-90°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8





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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°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.1	5.4	5.6
87.5°	4.6	4.5	4.4	4.3	4.1	4.0	3.8	3.6	3.6	3.6	3.6
85°	4.8	4.8	4.8	4.8	4.5	4.2	3.9	3.6	3.6	3.6	3.6
82.5°	4.8	4.8	4.8	4.8	4.5	4.2	3.9	3.8	3.8	3.8	3.7
80°	4.8	4.8	4.8	4.8	4.7	4.6	4.5	4.6	4.5	4.3	4.0
77.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.6	4.3	4.0
75°	4.8	4.8	4.9	4.8	4.8	4.8	4.8	4.8	4.7	4.6	4.6
72.5°	5.0	5.1	5.1	4.9	4.8	4.8	4.8	4.8	5.6	6.8	7.7
70°	5.4	5.5	5.1	4.9	4.8	5.1	6.5	8.5	10.6	12.1	14.1
67.5°	5.8	5.2	4.9	4.9	5.8	7.3	9.6	14.7	20.4	22.6	23.2
65°	5.3	4.9	5.1	5.8	7.0	11.2	16.8	23.4	28.3	27.9	26.4
62.5°	4.9	5.0	5.6	7.5	11.3	16.6	21.7	26.2	30.8	29.6	25.4
60°	4.9	5.1	7.3	11.2	15.2	19.0	23.8	26.4	28.5	28.4	22.4
57.5°	4.9	6.5	10.3	14.1	17.3	20.3	21.8	23.6	24.3	24.4	18.2
55°	5.7	8.9	12.6	15.8	18.3	17.8	18.4	18.6	18.7	17.5	12.4
52.5°	7.6	10.9	14.0	16.8	17.4	15.7	13.7	13.7	12.8	10.8	8.9
50°	9.1	12.1	15.1	17.0	16.3	13.0	10.1	10.0	9.1	7.9	6.8
47.5°	10.2	13.2	16.1	17.2	14.5	11.8	9.3	8.1	7.2	7.0	6.2
45°	11.2	14.1	17.1	16.1	13.7	11.7	9.6	7.1	7.4	7.4	7.6
42.5°	12.1	14.7	16.4	15.3	14.0	12.4	10.6	9.1	8.5	9.4	9.8
40°	12.5	15.1	15.9	16.2	14.8	14.0	13.7	12.7	11.0	12.5	13.0
37.5°	12.7	15.1	16.6	18.5	16.7	17.2	17.9	18.2	17.2	16.7	18.9
35°	12.7	15.5	20.0	22.3	20.8	21.9	23.9	24.9	24.9	24.5	28.1
32.5°	13.0	16.4	24.7	26.6	28.2	29.5	30.8	33.0	35.1	37.4	43.3
30°	14.7	20.7	30.0	31.6	37.2	43.1	41.4	42.5	47.2	62.1	75.1
27.5°	18.3	26.7	34.7	39.5	48.6	60.9	64.7	57.2	70.8	93.9	115.9
25°	22.6	43.2	39.8	49.3	66.2	84.6	94.9	93.8	107.0	136.2	162.4
22.5°	31.7	64.8	62.8	59.9	86.7	113.7	131.2	161.7	204.6	204.4	213.9
20°	47.6	85.4	91.8	99.7	116.9	147.1	172.2	252.8	342.2	372.5	339.5
17.5°	66.2	108.1	124.8	151.6	189.9	209.4	223.7	361.8	512.8	572.7	591.5
15°	86.9	132.6	160.1	209.8	270.8	305.4	366.3	524.1	702.5	804.0	879.4
12.5°	109.0	158.4	197.0	272.6	357.5	403.2	538.4	766.7	944.4	1066.8	1258.6
10°	131.7	185.0	235.1	338.5	448.2	502.3	722.6	1016.5	1202.2	1343.9	1606.3
7.5°	156.8	211.5	272.8	405.8	540.9	601.7	912.8	1268.3	1453.5	1611.3	1907.9
5°	181.2	236.9	306.7	463.0	615.2	685.6	1084.4	1515.4	1697.6	1868.9	2180.2
2.5°	203.7	261.3	339.2	515.7	674.2	744.3	1167.0	1641.2	1839.8	2052.4	2385.9
0°	223.6	284.3	369.9	563.8	728.0	800.5	1232.3	1749.7	1955.5	2197.0	2535.9
-2.5°	227.8	293.4	380.8	563.1	720.8	799.1	1238.6	1754.5	1995.3	2250.6	2582.3
-5°	228.9	300.8	389.2	557.5	708.8	794.5	1225.8	1736.7	2001.9	2237.5	2536.3
-7.5°	227.3	306.0	395.0	546.5	685.6	768.1	1153.6	1629.1	1897.3	2102.5	2383.5
-10°	223.2	305.3	388.6	521.6	648.4	728.0	1054.6	1504.9	1788.3	1965.0	2209.7
-12.5°	216.1	299.6	378.3	494.9	610.7	687.2	939.4	1367.4	1677.8	1828.7	2026.7
-15°	208.1	292.8	366.2	467.4	574.0	646.0	808.6	1219.0	1572.6	1726.3	1873.3
-17.5°	199.8	285.1	352.5	439.8	539.2	605.2	667.4	1061.3	1439.5	1621.8	1763.9
-20°	191.6	276.8	337.2	413.1	506.5	573.5	624.6	901.5	1252.4	1506.0	1648.7



REPORT NUMBER: P731316 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-CV5

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	184.0	267.8	322.7	392.3	477.7	548.4	600.1	745.2	1055.1	1380.1	1534.4
-25°	181.2	255.0	310.9	374.1	450.1	522.9	576.2	612.5	868.7	1190.4	1425.5
-27.5°	181.3	244.2	299.5	354.6	422.5	495.9	549.1	586.4	726.9	1003.9	1302.6
-30°	179.7	231.2	287.1	335.6	398.4	464.7	520.9	572.5	617.0	838.8	1102.4
-32.5°	172.9	217.6	272.0	320.7	374.1	434.6	497.9	553.1	601.3	673.4	912.3
-35°	163.7	206.4	255.7	304.7	349.5	407.8	470.0	530.4	581.6	626.4	735.3
-37.5°	155.4	193.6	238.8	287.1	331.1	381.1	440.0	500.6	555.6	608.8	658.0
-40°	145.8	179.4	222.7	268.2	312.0	355.7	409.0	466.2	524.1	585.5	644.8
-42.5°	134.9	167.5	205.5	248.4	290.0	332.8	376.5	430.2	488.6	553.5	615.3
-45°	120.4	154.5	187.5	226.1	265.6	307.1	349.2	392.6	448.9	508.8	573.5
-47.5°	104.7	139.3	171.5	202.4	239.5	278.3	319.3	361.8	406.3	460.8	518.9
-50°	88.3	120.5	153.2	181.1	212.2	248.0	285.6	327.9	370.3	413.1	462.6
-52.5°	72.4	100.4	131.0	160.1	186.9	216.8	251.7	290.0	330.5	371.6	409.9
-55°	55.5	81.0	107.4	135.8	162.9	188.3	216.5	250.8	287.1	325.3	360.2
-57.5°	41.9	61.1	84.6	109.3	135.6	161.3	185.9	210.8	242.1	275.8	305.8
-60°	30.1	44.1	62.0	83.8	106.3	130.6	155.3	178.6	201.4	223.5	250.3
-62.5°	19.7	30.6	43.3	58.6	78.5	99.0	120.9	143.3	165.6	184.7	202.4
-65°	17.3	19.8	28.4	39.8	51.1	69.6	88.2	106.1	125.6	143.2	160.2
-67.5°	14.8	17.1	19.4	23.4	33.6	45.1	57.1	73.4	88.9	101.6	114.2
-70°	13.1	14.5	16.4	18.4	20.5	25.2	35.3	45.8	56.2	65.9	76.6
-72.5°	11.6	12.8	14.0	15.3	17.1	19.3	21.5	23.9	29.7	37.5	44.9
-75°	10.2	11.1	12.2	13.3	14.4	15.7	17.2	19.1	21.0	22.6	24.1
-77.5°	9.1	9.7	10.5	11.3	12.2	13.2	14.3	15.4	16.6	17.9	19.2
-80°	7.9	8.3	8.8	9.3	10.1	10.9	11.6	12.4	13.1	14.0	14.9
-82.5°	6.8	7.1	7.4	7.6	8.1	8.6	9.3	9.9	10.1	10.3	10.6
-85°	5.8	5.9	6.1	6.3	6.5	6.8	7.1	7.4	7.5	7.5	7.5
-87.5°	5.3	5.3	5.4	5.4	5.5	5.5	5.5	5.6	5.7	5.8	5.8
-90°	4.5	4.2	3.9	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6



REPORT NUMBER: P731316 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-CV5

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	5.9	6.2	6.5	6.8	7.1	9.8	12.4	15.1	17.8	22.3	26.7
87.5°	3.6	3.3	3.0	2.7	2.4	2.1	1.8	1.5	1.2	1.2	1.2
85°	3.6	3.3	3.0	2.7	2.4	2.4	2.3	2.3	2.3	2.1	1.8
82.5°	3.6	3.3	3.0	2.7	2.4	2.4	2.4	2.4	2.4	2.1	1.8
80°	3.6	3.4	3.3	3.2	3.2	3.0	2.9	2.7	2.4	2.4	2.4
77.5°	3.8	3.8	3.8	3.8	3.6	3.4	3.1	2.7	2.4	2.4	2.4
75°	4.7	4.8	4.9	4.7	4.3	4.0	3.8	3.6	3.4	3.2	3.0
72.5°	8.3	8.4	8.0	7.7	7.0	6.7	6.7	6.6	6.4	6.3	6.2
70°	15.2	15.5	14.9	13.4	11.4	10.0	9.3	8.5	7.5	7.1	7.0
67.5°	21.7	19.9	17.9	15.9	13.4	11.2	9.9	8.7	7.6	7.0	6.7
65°	23.8	19.4	16.2	13.7	11.7	10.1	8.7	7.4	6.2	5.3	5.1
62.5°	20.7	15.5	12.3	10.4	9.0	8.1	6.8	5.6	4.6	4.0	4.2
60°	16.8	11.4	8.4	7.4	6.5	5.9	5.2	4.5	4.0	3.6	3.7
57.5°	12.6	8.3	5.9	5.8	5.5	5.0	4.6	4.3	3.9	3.6	3.6
55°	8.7	6.8	5.9	5.6	5.3	5.0	4.7	4.3	4.0	3.6	3.6
52.5°	6.8	6.2	5.9	5.7	5.4	5.1	4.8	4.4	4.0	3.7	3.6
50°	6.2	6.0	6.0	5.8	5.5	5.2	4.8	4.6	4.5	4.4	4.5
47.5°	6.4	6.5	6.4	5.9	5.7	5.8	5.8	5.8	5.9	5.7	5.6
45°	7.3	7.3	7.2	7.1	6.8	7.5	7.9	8.0	9.3	8.8	7.4
42.5°	9.0	9.5	10.0	10.6	9.8	12.5	16.8	19.7	16.9	13.3	11.2
40°	13.7	14.1	17.1	18.7	22.2	26.1	23.7	19.8	17.7	18.9	19.6
37.5°	21.7	25.3	30.3	35.8	34.4	28.5	29.2	29.1	28.1	30.5	30.7
35°	35.4	44.3	48.5	49.8	47.3	45.5	47.2	48.8	45.1	50.9	52.7
32.5°	57.8	68.7	71.1	68.6	68.9	72.9	75.8	81.2	86.7	95.3	105.7
30°	85.2	96.9	102.5	97.4	98.5	108.0	114.1	126.4	146.1	168.7	196.8
27.5°	126.2	134.9	145.0	146.4	141.6	155.5	177.2	190.2	243.3	278.4	341.6
25°	180.4	193.9	202.7	217.6	225.6	242.4	284.0	324.1	405.5	484.9	619.5
22.5°	251.4	294.8	310.8	308.5	355.4	400.5	436.0	548.3	708.7	943.6	1207.9
20°	345.3	434.5	510.2	534.8	551.5	670.5	793.0	1141.4	1540.8	2207.4	2725.7
17.5°	622.4	651.8	818.1	953.6	1018.0	1270.1	1841.6	2718.6	4226.2	6288.9	7557.1
15°	1039.1	1122.9	1289.7	1576.2	1930.8	2599.0	3552.9	6349.2	10215.5	14440.7	18463.2
12.5°	1499.3	1674.0	1979.6	2401.6	2964.5	4871.0	7949.6	13210.5	20368.4	27688.6	37024.7
10°	1926.4	2277.6	2779.3	3491.5	4936.9	8194.0	13375.9	22318.6	34997.4	48217.8	61425.4
7.5°	2274.7	2777.2	3510.9	4577.7	7168.3	12397.5	20895.8	34071.7	50327.9	67336.6	85244.2
5°	2626.5	3262.6	4146.3	5437.1	8630.5	15645.0	26948.7	44986.9	65965.7	87397.2	109964.7
2.5°	2931.4	3675.6	4698.6	6206.8	9613.8	17402.7	30600.2	52811.8	77443.1	103089.3	131832.7
0°	3156.9	3914.5	5001.7	6570.6	10582.7	18771.0	32737.8	55124.8	80177.4	106654.5	136031.3
-2.5°	3125.5	3810.7	4796.1	6353.1	10246.0	18524.2	31402.6	53220.4	77739.7	102559.5	128759.7
-5°	2982.7	3578.6	4461.6	5855.2	9083.4	16072.0	28180.3	48287.7	71087.4	93768.6	117080.5
-7.5°	2765.1	3280.6	4054.5	5251.8	7742.7	13245.8	23308.4	39037.5	58639.1	78023.8	96006.8
-10°	2540.3	2960.2	3587.4	4533.5	6310.4	10155.6	17271.4	29030.1	45331.3	61295.1	75075.9
-12.5°	2328.9	2641.6	3087.7	3746.4	4841.6	7602.7	12975.5	21554.6	32443.3	44717.0	56649.8
-15°	2131.8	2363.1	2683.4	3214.7	4091.2	5728.9	8645.7	14362.8	22021.9	30589.2	38837.9
-17.5°	1951.1	2141.7	2391.7	2765.8	3308.9	4321.6	6364.9	9633.6	14257.8	20351.8	26048.1
-20°	1789.1	1961.8	2148.8	2429.0	2846.1	3442.2	4448.2	6477.4	9145.8	12986.8	16754.0



REPORT NUMBER: P731316 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-CV5

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	1662.3	1797.9	1943.3	2157.6	2505.3	2928.0	3428.1	4259.4	5728.2	7698.3	9929.5
-25°	1546.4	1646.9	1797.7	2028.4	2266.5	2548.5	2851.7	3185.1	3836.8	4470.5	5638.6
-27.5°	1436.3	1542.2	1699.3	1907.5	2124.8	2256.4	2450.4	2656.3	2968.1	3243.2	3708.6
-30°	1344.4	1455.6	1589.0	1764.7	1947.6	2071.6	2172.5	2321.5	2494.4	2667.0	2867.2
-32.5°	1171.7	1383.9	1476.3	1610.3	1775.0	1905.5	1994.8	2105.5	2197.9	2305.2	2413.9
-35°	982.7	1216.8	1408.1	1494.7	1608.6	1753.7	1880.7	1969.6	2041.1	2107.3	2169.6
-37.5°	768.9	1012.4	1221.2	1396.9	1501.2	1598.4	1733.1	1852.7	1938.8	1984.3	2024.8
-40°	687.6	757.9	978.5	1180.0	1336.9	1489.2	1594.1	1711.4	1810.9	1873.7	1920.8
-42.5°	673.7	709.8	738.3	891.1	1081.5	1244.5	1383.4	1520.3	1641.8	1732.0	1804.7
-45°	636.1	679.1	719.1	747.4	776.7	920.9	1075.9	1226.9	1364.1	1486.9	1594.2
-47.5°	575.3	626.7	669.4	710.4	742.3	767.4	796.5	844.6	973.1	1099.2	1219.0
-50°	509.4	555.8	602.2	646.3	680.9	711.3	739.3	763.2	787.3	812.5	836.5
-52.5°	444.1	485.6	526.9	565.6	602.4	637.1	669.4	693.1	713.4	731.3	744.8
-55°	392.7	423.6	453.7	486.5	519.2	549.8	577.9	603.5	626.9	647.7	663.8
-57.5°	336.0	366.3	395.1	419.6	443.5	466.6	490.4	513.2	533.3	550.7	564.8
-60°	276.7	302.6	328.2	352.4	375.4	397.2	416.7	434.6	450.8	464.7	475.1
-62.5°	219.6	240.0	263.0	284.1	302.5	320.2	340.3	358.5	374.5	387.9	397.8
-65°	176.3	191.0	207.5	223.9	239.8	257.1	274.6	290.1	303.8	314.9	323.8
-67.5°	128.5	142.9	159.0	173.6	187.1	201.7	218.4	233.8	247.9	259.2	268.4
-70°	86.6	96.8	109.5	123.2	136.4	150.3	165.6	180.3	194.4	205.1	213.9
-72.5°	52.0	58.6	65.4	74.3	83.7	95.1	108.0	120.8	133.6	142.9	150.1
-75°	25.5	28.2	33.7	38.9	43.6	49.7	56.2	62.3	68.0	72.2	75.7
-77.5°	20.6	21.9	23.2	24.4	25.6	28.2	31.4	34.8	38.2	40.9	43.4
-80°	15.8	16.7	17.5	18.4	19.4	21.4	23.7	25.9	28.1	29.8	31.4
-82.5°	11.0	11.5	11.9	12.3	12.6	14.1	15.6	17.1	18.5	19.8	21.1
-85°	7.4	7.5	7.7	7.8	7.8	9.3	10.9	12.5	14.0	15.3	16.5
-87.5°	5.9	5.9	6.0	6.0	6.0	7.3	8.5	9.8	10.9	12.1	13.3
-90°	3.6	3.3	3.0	2.7	2.4	2.1	1.8	1.5	1.2	0.9	0.6



REPORT NUMBER: P731316 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-CV5

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	31.2	35.7	32.7	29.7	32.7	35.7	31.2	26.7	22.3	17.8	15.1
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5
85°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.8	2.1	2.3	2.3
82.5°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.8	2.1	2.4	2.4
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.7
77.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.7
75°	2.7	2.4	3.0	3.6	3.0	2.4	2.7	3.0	3.2	3.4	3.6
72.5°	6.0	5.8	5.9	5.9	5.9	5.8	6.0	6.2	6.3	6.4	6.6
70°	7.0	7.1	7.1	7.1	7.1	7.1	7.0	7.0	7.1	7.5	8.5
67.5°	6.3	6.0	5.9	5.9	5.9	6.0	6.3	6.7	7.0	7.6	8.7
65°	4.9	4.8	4.8	4.8	4.8	4.8	4.9	5.1	5.3	6.2	7.4
62.5°	4.4	4.7	4.8	4.8	4.8	4.7	4.4	4.2	4.0	4.6	5.6
60°	3.7	3.7	3.6	3.6	3.6	3.7	3.7	3.7	3.6	4.0	4.5
57.5°	3.6	3.6	4.1	4.8	4.1	3.6	3.6	3.6	3.6	3.9	4.3
55°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.0	4.3
52.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.7	4.0	4.4
50°	4.6	4.7	4.8	4.8	4.8	4.7	4.6	4.5	4.4	4.5	4.6
47.5°	5.7	5.8	5.5	4.8	5.5	5.8	5.7	5.6	5.7	5.9	5.8
45°	7.4	7.2	7.1	7.1	7.1	7.2	7.4	7.4	8.8	9.3	8.0
42.5°	11.6	11.7	11.8	11.9	11.8	11.7	11.6	11.2	13.3	16.9	19.7
40°	20.6	21.0	21.2	21.4	21.2	21.0	20.6	19.6	18.9	17.7	19.8
37.5°	31.1	31.7	31.8	32.1	31.8	31.7	31.1	30.7	30.5	28.1	29.1
35°	52.5	52.3	50.5	51.1	50.5	52.3	52.5	52.7	50.9	45.1	48.8
32.5°	112.8	113.6	107.8	98.7	107.8	113.6	112.8	105.7	95.3	86.7	81.2
30°	217.9	236.5	249.1	249.8	249.1	236.5	217.9	196.8	168.7	146.1	126.4
27.5°	383.8	412.9	425.2	431.8	425.2	412.9	383.8	341.6	278.4	243.3	190.2
25°	725.2	791.7	827.7	800.5	827.7	791.7	725.2	619.5	484.9	405.5	324.1
22.5°	1459.3	1586.5	1694.9	1700.9	1694.9	1586.5	1459.3	1207.9	943.6	708.7	548.3
20°	3446.3	3417.4	3691.4	3554.1	3691.4	3417.4	3446.3	2725.7	2207.4	1540.8	1141.4
17.5°	9775.1	10856.4	11453.9	10636.2	11453.9	10856.4	9775.1	7557.1	6288.9	4226.2	2718.6
15°	22472.5	25169.8	26995.0	26761.9	26995.0	25169.8	22472.5	18463.2	14440.7	10215.5	6349.2
12.5°	42254.1	46686.6	50464.7	50306.3	50464.7	46686.6	42254.1	37024.7	27688.6	20368.4	13210.5
10°	73192.4	80920.2	88122.1	88872.4	88122.1	80920.2	73192.4	61425.4	48217.8	34997.4	22318.6
7.5°	101696.3	119098.4	129471.5	132132.9	129471.5	119098.4	101696.3	85244.2	67336.6	50327.9	34071.7
5°	137388.0	157540.4	168442.5	168733.4	168442.5	157540.4	137388.0	109964.7	87397.2	65965.7	44986.9
2.5°	163809.8	186510.1	199896.4	210253.7	199896.4	186510.1	163809.8	131832.7	103089.3	77443.1	52811.8
0°	171667.9	191244.2	213087.6	225232.1	213087.6	191244.2	171667.9	136031.3	106654.5	80177.4	55124.8
-2.5°	161138.5	181634.5	192477.8	202356.2	192477.8	181634.5	161138.5	128759.7	102559.5	77739.7	53220.4
-5°	141135.3	162844.1	173262.2	175486.1	173262.2	162844.1	141135.3	117080.5	93768.6	71087.4	48287.7
-7.5°	112301.6	127581.0	138128.3	142264.7	138128.3	127581.0	112301.6	96006.8	78023.8	58639.1	39037.5
-10°	87891.4	97757.8	103035.9	106545.6	103035.9	97757.8	87891.4	75075.9	61295.1	45331.3	29030.1
-12.5°	66267.6	73399.9	77539.3	79341.2	77539.3	73399.9	66267.6	56649.8	44717.0	32443.3	21554.6
-15°	47168.8	52812.6	55615.5	57400.2	55615.5	52812.6	47168.8	38837.9	30589.2	22021.9	14362.8
-17.5°	32316.9	36854.9	39441.4	41123.5	39441.4	36854.9	32316.9	26048.1	20351.8	14257.8	9633.6
-20°	20677.2	23379.2	25369.5	25949.5	25369.5	23379.2	20677.2	16754.0	12986.8	9145.8	6477.4



REPORT NUMBER: P731316 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-CV5

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	12081.0	13671.9	14674.2	14901.7	14674.2	13671.9	12081.0	9929.5	7698.3	5728.2	4259.4
-25°	6568.7	7261.9	7787.7	7965.9	7787.7	7261.9	6568.7	5638.6	4470.5	3836.8	3185.1
-27.5°	4033.9	4301.9	4496.1	4596.1	4496.1	4301.9	4033.9	3708.6	3243.2	2968.1	2656.3
-30°	3034.1	3156.3	3229.3	3278.2	3229.3	3156.3	3034.1	2867.2	2667.0	2494.4	2321.5
-32.5°	2491.1	2545.8	2578.8	2601.4	2578.8	2545.8	2491.1	2413.9	2305.2	2197.9	2105.5
-35°	2218.9	2254.5	2278.9	2290.9	2278.9	2254.5	2218.9	2169.6	2107.3	2041.1	1969.6
-37.5°	2055.0	2077.4	2093.6	2103.0	2093.6	2077.4	2055.0	2024.8	1984.3	1938.8	1852.7
-40°	1943.2	1958.9	1971.9	1986.4	1971.9	1958.9	1943.2	1920.8	1873.7	1810.9	1711.4
-42.5°	1841.3	1864.6	1876.3	1879.4	1876.3	1864.6	1841.3	1804.7	1732.0	1641.8	1520.3
-45°	1676.4	1741.2	1781.0	1793.7	1781.0	1741.2	1676.4	1594.2	1486.9	1364.1	1226.9
-47.5°	1329.2	1426.1	1499.3	1543.9	1499.3	1426.1	1329.2	1219.0	1099.2	973.1	844.6
-50°	858.8	879.3	887.4	882.6	887.4	879.3	858.8	836.5	812.5	787.3	763.2
-52.5°	755.4	763.7	770.5	775.5	770.5	763.7	755.4	744.8	731.3	713.4	693.1
-55°	676.4	685.6	694.4	701.8	694.4	685.6	676.4	663.8	647.7	626.9	603.5
-57.5°	576.7	586.1	589.6	588.8	589.6	586.1	576.7	564.8	550.7	533.3	513.2
-60°	483.7	490.3	495.3	498.4	495.3	490.3	483.7	475.1	464.7	450.8	434.6
-62.5°	405.6	411.4	417.9	423.5	417.9	411.4	405.6	397.8	387.9	374.5	358.5
-65°	331.2	337.4	342.3	346.1	342.3	337.4	331.2	323.8	314.9	303.8	290.1
-67.5°	276.7	284.0	289.5	293.8	289.5	284.0	276.7	268.4	259.2	247.9	233.8
-70°	221.9	229.2	233.6	236.7	233.6	229.2	221.9	213.9	205.1	194.4	180.3
-72.5°	156.4	161.6	164.1	165.3	164.1	161.6	156.4	150.1	142.9	133.6	120.8
-75°	78.7	81.2	83.6	85.6	83.6	81.2	78.7	75.7	72.2	68.0	62.3
-77.5°	46.0	48.4	49.9	51.1	49.9	48.4	46.0	43.4	40.9	38.2	34.8
-80°	32.9	34.3	35.6	36.9	35.6	34.3	32.9	31.4	29.8	28.1	25.9
-82.5°	22.4	23.7	24.4	25.0	24.4	23.7	22.4	21.1	19.8	18.5	17.1
-85°	17.8	19.0	19.6	20.2	19.6	19.0	17.8	16.5	15.3	14.0	12.5
-87.5°	14.4	15.6	16.1	16.7	16.1	15.6	14.4	13.3	12.1	10.9	9.8
-90°	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.9	1.2	1.5



REPORT NUMBER: P731316 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-CV5

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	12.4	9.8	7.1	6.8	6.5	6.2	5.9	5.6	5.4	5.1	4.8
87.5°	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.6	3.6	3.6	3.6
85°	2.3	2.4	2.4	2.7	3.0	3.3	3.6	3.6	3.6	3.6	3.6
82.5°	2.4	2.4	2.4	2.7	3.0	3.3	3.6	3.7	3.8	3.8	3.8
80°	2.9	3.0	3.2	3.2	3.3	3.4	3.6	4.0	4.3	4.5	4.6
77.5°	3.1	3.4	3.6	3.8	3.8	3.8	3.8	4.0	4.3	4.6	4.8
75°	3.8	4.0	4.3	4.7	4.9	4.8	4.7	4.6	4.6	4.7	4.8
72.5°	6.7	6.7	7.0	7.7	8.0	8.4	8.3	7.7	6.8	5.6	4.8
70°	9.3	10.0	11.4	13.4	14.9	15.5	15.2	14.1	12.1	10.6	8.5
67.5°	9.9	11.2	13.4	15.9	17.9	19.9	21.7	23.2	22.6	20.4	14.7
65°	8.7	10.1	11.7	13.7	16.2	19.4	23.8	26.4	27.9	28.3	23.4
62.5°	6.8	8.1	9.0	10.4	12.3	15.5	20.7	25.4	29.6	30.8	26.2
60°	5.2	5.9	6.5	7.4	8.4	11.4	16.8	22.4	28.4	28.5	26.4
57.5°	4.6	5.0	5.5	5.8	5.9	8.3	12.6	18.2	24.4	24.3	23.6
55°	4.7	5.0	5.3	5.6	5.9	6.8	8.7	12.4	17.5	18.7	18.6
52.5°	4.8	5.1	5.4	5.7	5.9	6.2	6.8	8.9	10.8	12.8	13.7
50°	4.8	5.2	5.5	5.8	6.0	6.0	6.2	6.8	7.9	9.1	10.0
47.5°	5.8	5.8	5.7	5.9	6.4	6.5	6.4	6.2	7.0	7.2	8.1
45°	7.9	7.5	6.8	7.1	7.2	7.3	7.3	7.6	7.4	7.4	7.1
42.5°	16.8	12.5	9.8	10.6	10.0	9.5	9.0	9.8	9.4	8.5	9.1
40°	23.7	26.1	22.2	18.7	17.1	14.1	13.7	13.0	12.5	11.0	12.7
37.5°	29.2	28.5	34.4	35.8	30.3	25.3	21.7	18.9	16.7	17.2	18.2
35°	47.2	45.5	47.3	49.8	48.5	44.3	35.4	28.1	24.5	24.9	24.9
32.5°	75.8	72.9	68.9	68.6	71.1	68.7	57.8	43.3	37.4	35.1	33.0
30°	114.1	108.0	98.5	97.4	102.5	96.9	85.2	75.1	62.1	47.2	42.5
27.5°	177.2	155.5	141.6	146.4	145.0	134.9	126.2	115.9	93.9	70.8	57.2
25°	284.0	242.4	225.6	217.6	202.7	193.9	180.4	162.4	136.2	107.0	93.8
22.5°	436.0	400.5	355.4	308.5	310.8	294.8	251.4	213.9	204.4	204.6	161.7
20°	793.0	670.5	551.5	534.8	510.2	434.5	345.3	339.5	372.5	342.2	252.8
17.5°	1841.6	1270.1	1018.0	953.6	818.1	651.8	622.4	591.5	572.7	512.8	361.8
15°	3552.9	2599.0	1930.8	1576.2	1289.7	1122.9	1039.1	879.4	804.0	702.5	524.1
12.5°	7949.6	4871.0	2964.5	2401.6	1979.6	1674.0	1499.3	1258.6	1066.8	944.4	766.7
10°	13375.9	8194.0	4936.9	3491.5	2779.3	2277.6	1926.4	1606.3	1343.9	1202.2	1016.5
7.5°	20895.8	12397.5	7168.3	4577.7	3510.9	2777.2	2274.7	1907.9	1611.3	1453.5	1268.3
5°	26948.7	15645.0	8630.5	5437.1	4146.3	3262.6	2626.5	2180.2	1868.9	1697.6	1515.4
2.5°	30600.2	17402.7	9613.8	6206.8	4698.6	3675.6	2931.4	2385.9	2052.4	1839.8	1641.2
0°	32737.8	18771.0	10582.7	6570.6	5001.7	3914.5	3156.9	2535.9	2197.0	1955.5	1749.7
-2.5°	31402.6	18524.2	10246.0	6353.1	4796.1	3810.7	3125.5	2582.3	2250.6	1995.3	1754.5
-5°	28180.3	16072.0	9083.4	5855.2	4461.6	3578.6	2982.7	2536.3	2237.5	2001.9	1736.7
-7.5°	23308.4	13245.8	7742.7	5251.8	4054.5	3280.6	2765.1	2383.5	2102.5	1897.3	1629.1
-10°	17271.4	10155.6	6310.4	4533.5	3587.4	2960.2	2540.3	2209.7	1965.0	1788.3	1504.9
-12.5°	12975.5	7602.7	4841.6	3746.4	3087.7	2641.6	2328.9	2026.7	1828.7	1677.8	1367.4
-15°	8645.7	5728.9	4091.2	3214.7	2683.4	2363.1	2131.8	1873.3	1726.3	1572.6	1219.0
-17.5°	6364.9	4321.6	3308.9	2765.8	2391.7	2141.7	1951.1	1763.9	1621.8	1439.5	1061.3
-20°	4448.2	3442.2	2846.1	2429.0	2148.8	1961.8	1789.1	1648.7	1506.0	1252.4	901.5





REPORT NUMBER: P731316 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-CV5

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	3428.1	2928.0	2505.3	2157.6	1943.3	1797.9	1662.3	1534.4	1380.1	1055.1	745.2
-25°	2851.7	2548.5	2266.5	2028.4	1797.7	1646.9	1546.4	1425.5	1190.4	868.7	612.5
-27.5°	2450.4	2256.4	2124.8	1907.5	1699.3	1542.2	1436.3	1302.6	1003.9	726.9	586.4
-30°	2172.5	2071.6	1947.6	1764.7	1589.0	1455.6	1344.4	1102.4	838.8	617.0	572.5
-32.5°	1994.8	1905.5	1775.0	1610.3	1476.3	1383.9	1171.7	912.3	673.4	601.3	553.1
-35°	1880.7	1753.7	1608.6	1494.7	1408.1	1216.8	982.7	735.3	626.4	581.6	530.4
-37.5°	1733.1	1598.4	1501.2	1396.9	1221.2	1012.4	768.9	658.0	608.8	555.6	500.6
-40°	1594.1	1489.2	1336.9	1180.0	978.5	757.9	687.6	644.8	585.5	524.1	466.2
-42.5°	1383.4	1244.5	1081.5	891.1	738.3	709.8	673.7	615.3	553.5	488.6	430.2
-45°	1075.9	920.9	776.7	747.4	719.1	679.1	636.1	573.5	508.8	448.9	392.6
-47.5°	796.5	767.4	742.3	710.4	669.4	626.7	575.3	518.9	460.8	406.3	361.8
-50°	739.3	711.3	680.9	646.3	602.2	555.8	509.4	462.6	413.1	370.3	327.9
-52.5°	669.4	637.1	602.4	565.6	526.9	485.6	444.1	409.9	371.6	330.5	290.0
-55°	577.9	549.8	519.2	486.5	453.7	423.6	392.7	360.2	325.3	287.1	250.8
-57.5°	490.4	466.6	443.5	419.6	395.1	366.3	336.0	305.8	275.8	242.1	210.8
-60°	416.7	397.2	375.4	352.4	328.2	302.6	276.7	250.3	223.5	201.4	178.6
-62.5°	340.3	320.2	302.5	284.1	263.0	240.0	219.6	202.4	184.7	165.6	143.3
-65°	274.6	257.1	239.8	223.9	207.5	191.0	176.3	160.2	143.2	125.6	106.1
-67.5°	218.4	201.7	187.1	173.6	159.0	142.9	128.5	114.2	101.6	88.9	73.4
-70°	165.6	150.3	136.4	123.2	109.5	96.8	86.6	76.6	65.9	56.2	45.8
-72.5°	108.0	95.1	83.7	74.3	65.4	58.6	52.0	44.9	37.5	29.7	23.9
-75°	56.2	49.7	43.6	38.9	33.7	28.2	25.5	24.1	22.6	21.0	19.1
-77.5°	31.4	28.2	25.6	24.4	23.2	21.9	20.6	19.2	17.9	16.6	15.4
-80°	23.7	21.4	19.4	18.4	17.5	16.7	15.8	14.9	14.0	13.1	12.4
-82.5°	15.6	14.1	12.6	12.3	11.9	11.5	11.0	10.6	10.3	10.1	9.9
-85°	10.9	9.3	7.8	7.8	7.7	7.5	7.4	7.5	7.5	7.5	7.4
-87.5°	8.5	7.3	6.0	6.0	6.0	5.9	5.9	5.8	5.8	5.7	5.6
-90°	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.6	3.6	3.6	3.6





REPORT NUMBER: P731316 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-CV5

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	3.8	4.0	4.1	4.3	4.4	4.5	4.6	4.8	4.8	4.8	4.8
85°	3.9	4.2	4.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
82.5°	3.9	4.2	4.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
80°	4.5	4.6	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
77.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
75°	4.8	4.8	4.8	4.8	4.9	4.8	4.8	4.8	4.8	4.8	4.8
72.5°	4.8	4.8	4.8	4.9	5.1	5.1	5.0	4.8	4.8	4.8	4.8
70°	6.5	5.1	4.8	4.9	5.1	5.5	5.4	5.2	4.8	4.8	4.8
67.5°	9.6	7.3	5.8	4.9	4.9	5.2	5.8	5.6	5.2	4.8	4.8
65°	16.8	11.2	7.0	5.8	5.1	4.9	5.3	5.8	5.6	5.2	4.8
62.5°	21.7	16.6	11.3	7.5	5.6	5.0	4.9	5.5	5.9	5.5	5.0
60°	23.8	19.0	15.2	11.2	7.3	5.1	4.9	5.2	5.7	5.8	5.3
57.5°	21.8	20.3	17.3	14.1	10.3	6.5	4.9	5.2	5.6	5.8	5.6
55°	18.4	17.8	18.3	15.8	12.6	8.9	5.7	5.3	5.5	5.8	5.9
52.5°	13.7	15.7	17.4	16.8	14.0	10.9	7.6	5.3	5.5	5.8	5.9
50°	10.1	13.0	16.3	17.0	15.1	12.1	9.1	6.4	5.6	5.8	6.0
47.5°	9.3	11.8	14.5	17.2	16.1	13.2	10.2	7.4	5.7	5.9	6.1
45°	9.6	11.7	13.7	16.1	17.1	14.1	11.2	8.1	6.3	6.0	6.2
42.5°	10.6	12.4	14.0	15.3	16.4	14.7	12.1	8.9	6.7	6.2	6.3
40°	13.7	14.0	14.8	16.2	15.9	15.1	12.5	9.7	6.9	6.4	6.5
37.5°	17.9	17.2	16.7	18.5	16.6	15.1	12.7	10.4	7.7	6.9	6.7
35°	23.9	21.9	20.8	22.3	20.0	15.5	12.7	10.8	8.9	7.5	6.9
32.5°	30.8	29.5	28.2	26.6	24.7	16.4	13.0	11.9	10.2	8.0	7.1
30°	41.4	43.1	37.2	31.6	30.0	20.7	14.7	13.2	11.5	8.6	7.4
27.5°	64.7	60.9	48.6	39.5	34.7	26.7	18.3	14.7	12.9	9.4	7.9
25°	94.9	84.6	66.2	49.3	39.8	43.2	22.6	16.6	14.2	10.5	8.4
22.5°	131.2	113.7	86.7	59.9	62.8	64.8	31.7	20.0	15.6	11.6	8.8
20°	172.2	147.1	116.9	99.7	91.8	85.4	47.6	23.7	17.1	12.7	9.3
17.5°	223.7	209.4	189.9	151.6	124.8	108.1	66.2	27.7	18.7	13.8	9.8
15°	366.3	305.4	270.8	209.8	160.1	132.6	86.9	32.0	20.4	14.8	10.3
12.5°	538.4	403.2	357.5	272.6	197.0	158.4	109.0	36.3	22.1	16.0	10.9
10°	722.6	502.3	448.2	338.5	235.1	185.0	131.7	41.6	24.9	17.2	11.6
7.5°	912.8	601.7	540.9	405.8	272.8	211.5	156.8	49.0	28.0	18.4	12.3
5°	1084.4	685.6	615.2	463.0	306.7	236.9	181.2	56.4	31.0	19.5	13.0
2.5°	1167.0	744.3	674.2	515.7	339.2	261.3	203.7	63.5	34.1	20.5	13.7
0°	1232.3	800.5	728.0	563.8	369.9	284.3	223.6	70.2	36.9	21.4	14.3
-2.5°	1238.6	799.1	720.8	563.1	380.8	293.4	227.8	80.4	45.4	27.2	17.1
-5°	1225.8	794.5	708.8	557.5	389.2	300.8	228.9	89.8	53.4	32.7	19.7
-7.5°	1153.6	768.1	685.6	546.5	395.0	306.0	227.3	98.4	60.9	37.8	22.0
-10°	1054.6	728.0	648.4	521.6	388.6	305.3	223.2	106.1	67.8	42.4	24.2
-12.5°	939.4	687.2	610.7	494.9	378.3	299.6	216.1	113.1	73.9	46.4	25.9
-15°	808.6	646.0	574.0	467.4	366.2	292.8	208.1	119.2	79.5	50.0	27.3
-17.5°	667.4	605.2	539.2	439.8	352.5	285.1	199.8	124.0	84.3	53.4	28.8
-20°	624.6	573.5	506.5	413.1	337.2	276.8	191.6	127.6	88.3	56.0	30.3



REPORT NUMBER: P731316 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-CV5

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	600.1	548.4	477.7	392.3	322.7	267.8	184.0	129.9	91.3	57.6	31.0
-25°	576.2	522.9	450.1	374.1	310.9	255.0	181.2	130.8	93.4	58.3	31.1
-27.5°	549.1	495.9	422.5	354.6	299.5	244.2	181.3	132.6	94.4	57.9	30.4
-30°	520.9	464.7	398.4	335.6	287.1	231.2	179.7	133.3	93.7	56.9	28.9
-32.5°	497.9	434.6	374.1	320.7	272.0	217.6	172.9	132.6	91.6	55.1	27.8
-35°	470.0	407.8	349.5	304.7	255.7	206.4	163.7	130.7	88.0	52.1	26.4
-37.5°	440.0	381.1	331.1	287.1	238.8	193.6	155.4	122.0	82.9	48.0	24.3
-40°	409.0	355.7	312.0	268.2	222.7	179.4	145.8	111.2	76.9	42.6	21.5
-42.5°	376.5	332.8	290.0	248.4	205.5	167.5	134.9	99.3	67.6	37.9	18.0
-45°	349.2	307.1	265.6	226.1	187.5	154.5	120.4	86.5	57.1	33.0	15.3
-47.5°	319.3	278.3	239.5	202.4	171.5	139.3	104.7	73.9	46.0	27.2	14.6
-50°	285.6	248.0	212.2	181.1	153.2	120.5	88.3	60.4	37.9	20.1	13.7
-52.5°	251.7	216.8	186.9	160.1	131.0	100.4	72.4	46.7	29.5	16.9	12.7
-55°	216.5	188.3	162.9	135.8	107.4	81.0	55.5	36.8	20.7	15.4	11.6
-57.5°	185.9	161.3	135.6	109.3	84.6	61.1	41.9	26.6	17.3	13.8	10.8
-60°	155.3	130.6	106.3	83.8	62.0	44.1	30.1	18.8	15.5	12.3	10.0
-62.5°	120.9	99.0	78.5	58.6	43.3	30.6	19.7	16.7	13.6	11.3	9.1
-65°	88.2	69.6	51.1	39.8	28.4	19.8	17.3	14.5	12.2	10.2	8.3
-67.5°	57.1	45.1	33.6	23.4	19.4	17.1	14.8	12.9	11.1	9.2	7.7
-70°	35.3	25.2	20.5	18.4	16.4	14.5	13.1	11.5	9.8	8.5	7.1
-72.5°	21.5	19.3	17.1	15.3	14.0	12.8	11.6	10.3	9.0	7.8	6.5
-75°	17.2	15.7	14.4	13.3	12.2	11.1	10.2	9.3	8.2	7.0	6.3
-77.5°	14.3	13.2	12.2	11.3	10.5	9.7	9.1	8.4	7.4	6.7	6.1
-80°	11.6	10.9	10.1	9.3	8.8	8.3	7.9	7.5	6.8	6.3	6.0
-82.5°	9.3	8.6	8.1	7.6	7.4	7.1	6.8	6.5	6.2	5.9	5.8
-85°	7.1	6.8	6.5	6.3	6.1	5.9	5.8	5.7	5.6	5.6	5.5
-87.5°	5.5	5.5	5.5	5.4	5.4	5.3	5.3	5.3	5.2	5.2	5.1
-90°	3.6	3.6	3.6	3.6	3.9	4.2	4.5	4.8	4.8	4.8	4.8



REPORT NUMBER: P731316 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-CV5

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	4.8	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8
85°	4.8	4.8	4.8	4.8	4.8	4.8	4.8
82.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8
80°	4.8	4.8	4.8	4.8	4.8	4.8	4.8
77.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8
75°	4.8	4.8	4.8	4.8	4.8	4.8	4.8
72.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8
70°	4.8	4.8	4.8	4.8	4.8	4.8	4.8
67.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8
65°	4.9	4.8	4.8	4.8	4.8	4.8	4.8
62.5°	4.9	4.9	4.8	4.8	4.8	4.8	4.8
60°	5.0	5.0	4.8	4.8	4.8	4.8	4.8
57.5°	5.2	5.1	4.9	4.8	4.8	4.8	4.8
55°	5.4	5.2	5.0	4.8	4.8	4.8	4.8
52.5°	5.6	5.4	5.1	4.8	4.8	4.8	4.8
50°	5.8	5.5	5.3	4.8	4.9	4.8	4.8
47.5°	5.9	5.6	5.4	4.8	4.9	4.8	4.8
45°	6.0	5.7	5.5	4.9	4.9	4.8	4.8
42.5°	6.1	5.8	5.7	5.0	5.0	4.8	4.8
40°	6.3	5.8	5.7	5.2	5.0	4.8	4.8
37.5°	6.4	5.9	5.8	5.3	5.1	4.8	4.8
35°	6.6	6.0	5.8	5.4	5.1	4.8	4.8
32.5°	6.8	6.1	5.9	5.5	5.1	4.8	4.8
30°	6.9	6.2	5.9	5.6	5.2	4.8	4.8
27.5°	7.1	6.4	5.9	5.6	5.3	4.8	4.8
25°	7.4	6.5	5.9	5.7	5.3	4.8	4.8
22.5°	7.6	6.6	5.9	5.8	5.4	4.8	4.8
20°	7.8	6.7	5.9	5.8	5.4	4.8	4.8
17.5°	8.0	6.8	5.9	5.8	5.5	4.8	4.8
15°	8.0	6.9	5.9	5.9	5.6	4.8	4.8
12.5°	8.1	7.0	5.9	5.9	5.6	4.8	4.8
10°	8.2	7.0	5.9	5.9	5.7	4.8	4.8
7.5°	8.2	7.0	5.9	5.9	5.7	4.8	4.8
5°	8.3	7.1	5.9	5.9	5.8	4.8	4.8
2.5°	8.3	7.1	5.9	5.9	5.8	4.8	4.8
0°	8.3	7.1	5.9	5.9	5.9	4.8	4.8
-2.5°	9.4	7.4	6.0	5.9	5.9	4.8	4.8
-5°	10.5	7.6	6.1	5.9	5.9	4.8	4.8
-7.5°	11.5	7.8	6.2	5.9	5.9	4.8	4.8
-10°	12.4	8.0	6.3	5.9	5.9	4.8	4.8
-12.5°	13.1	8.2	6.4	5.9	5.8	4.8	4.8
-15°	13.7	8.3	6.4	5.9	5.8	4.8	4.8
-17.5°	14.1	8.4	6.5	5.9	5.8	4.8	4.8
-20°	14.5	8.5	6.5	5.9	5.8	4.8	4.8



REPORT NUMBER: P731316 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-CV5

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	15.0	8.5	6.5	5.9	5.7	4.8	4.8
-25°	15.0	8.6	6.5	5.9	5.7	4.8	4.8
-27.5°	14.7	8.7	6.5	5.9	5.7	4.8	4.8
-30°	13.9	8.7	6.5	5.9	5.6	4.8	4.8
-32.5°	12.7	8.6	6.5	5.9	5.6	4.8	4.8
-35°	12.2	8.4	6.5	5.9	5.5	4.8	4.8
-37.5°	12.0	8.3	6.4	5.9	5.4	4.8	4.8
-40°	11.7	8.2	6.3	5.9	5.4	4.8	4.8
-42.5°	11.3	8.1	6.3	5.9	5.3	4.8	4.8
-45°	10.8	8.0	6.3	5.9	5.3	4.8	4.8
-47.5°	10.2	7.7	6.3	5.9	5.2	4.8	4.8
-50°	9.8	7.5	6.3	5.8	5.1	4.8	4.8
-52.5°	9.4	7.2	6.2	5.7	5.0	4.8	4.8
-55°	8.9	7.0	6.1	5.6	5.0	4.8	4.8
-57.5°	8.4	6.8	6.0	5.5	4.9	4.8	4.8
-60°	7.8	6.6	5.9	5.4	4.8	4.8	4.8
-62.5°	7.4	6.3	5.8	5.3	4.8	4.8	4.8
-65°	7.0	6.1	5.7	5.2	4.8	4.8	4.8
-67.5°	6.5	5.9	5.6	5.1	4.8	4.8	4.8
-70°	6.0	5.8	5.5	5.0	4.8	4.8	4.8
-72.5°	5.9	5.7	5.4	5.0	4.8	4.8	4.8
-75°	5.9	5.7	5.3	5.0	4.8	4.8	4.8
-77.5°	5.9	5.6	5.3	5.0	4.8	4.8	4.8
-80°	5.9	5.5	5.2	4.9	4.8	4.8	4.8
-82.5°	5.6	5.3	5.1	4.9	4.8	4.8	4.8
-85°	5.4	5.2	5.0	4.9	4.8	4.8	4.8
-87.5°	5.1	5.0	4.9	4.8	4.8	4.8	4.8
-90°	4.8	4.8	4.8	4.8	4.8	4.8	4.8

(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

