

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: P731615 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-70-7F-CV2**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731615 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-43)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680N-40-70-7F-CV2  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 70 CRI LEDS AND 7F BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

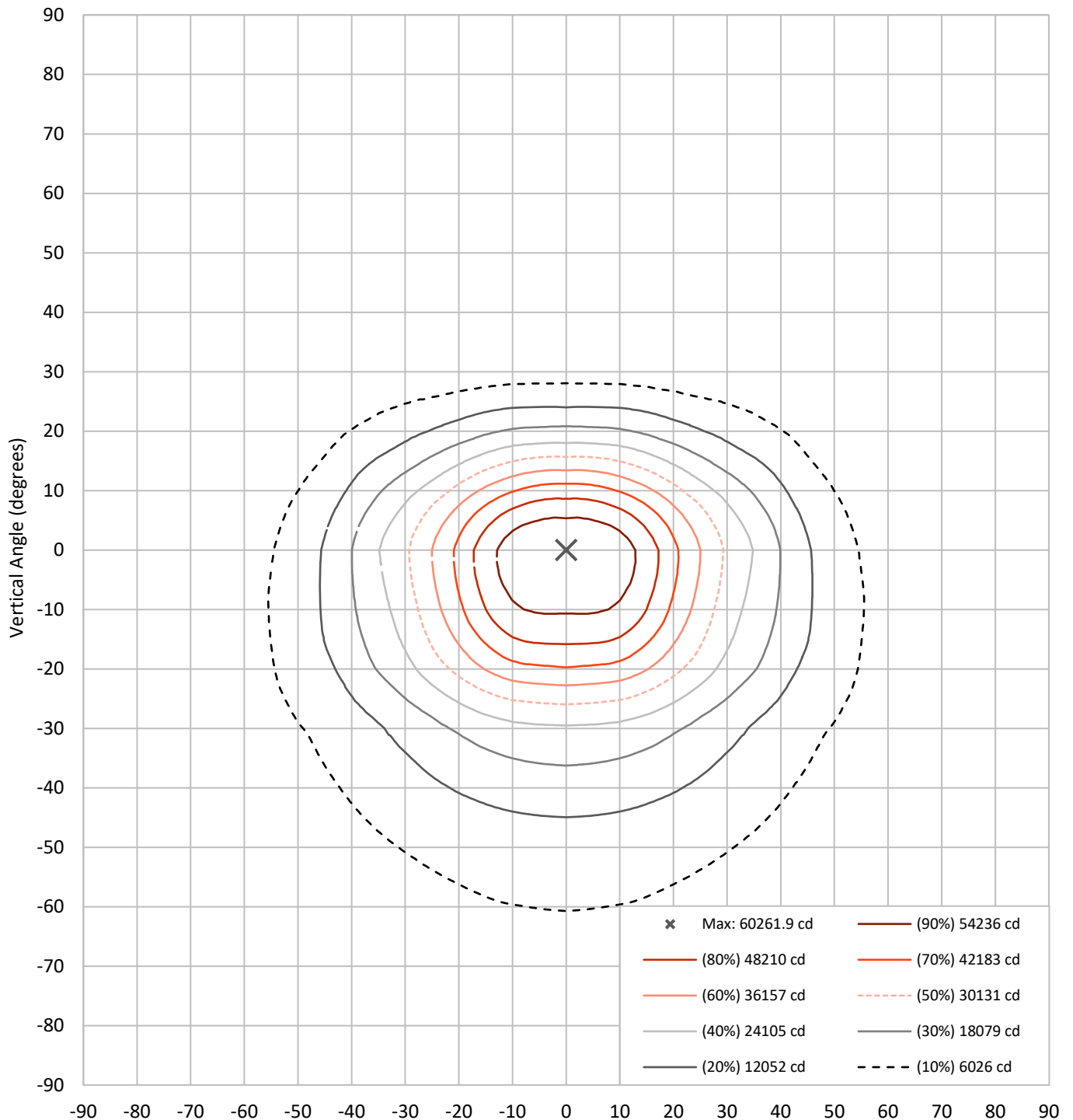
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	6H x 5V
Luminaire Lumens:	52722.1 lumens	Max Intensity:	60261.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	75.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	58.6°H x 41.6°V	Field Angle (10%):	109°H x 88.8°V
Beam Lumens:	25559.1 lumens	Field Lumens:	47884.1 lumens
Beam Efficiency:	48.5%	Field Efficiency:	90.8%

Input Watts (W): 697.2  
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





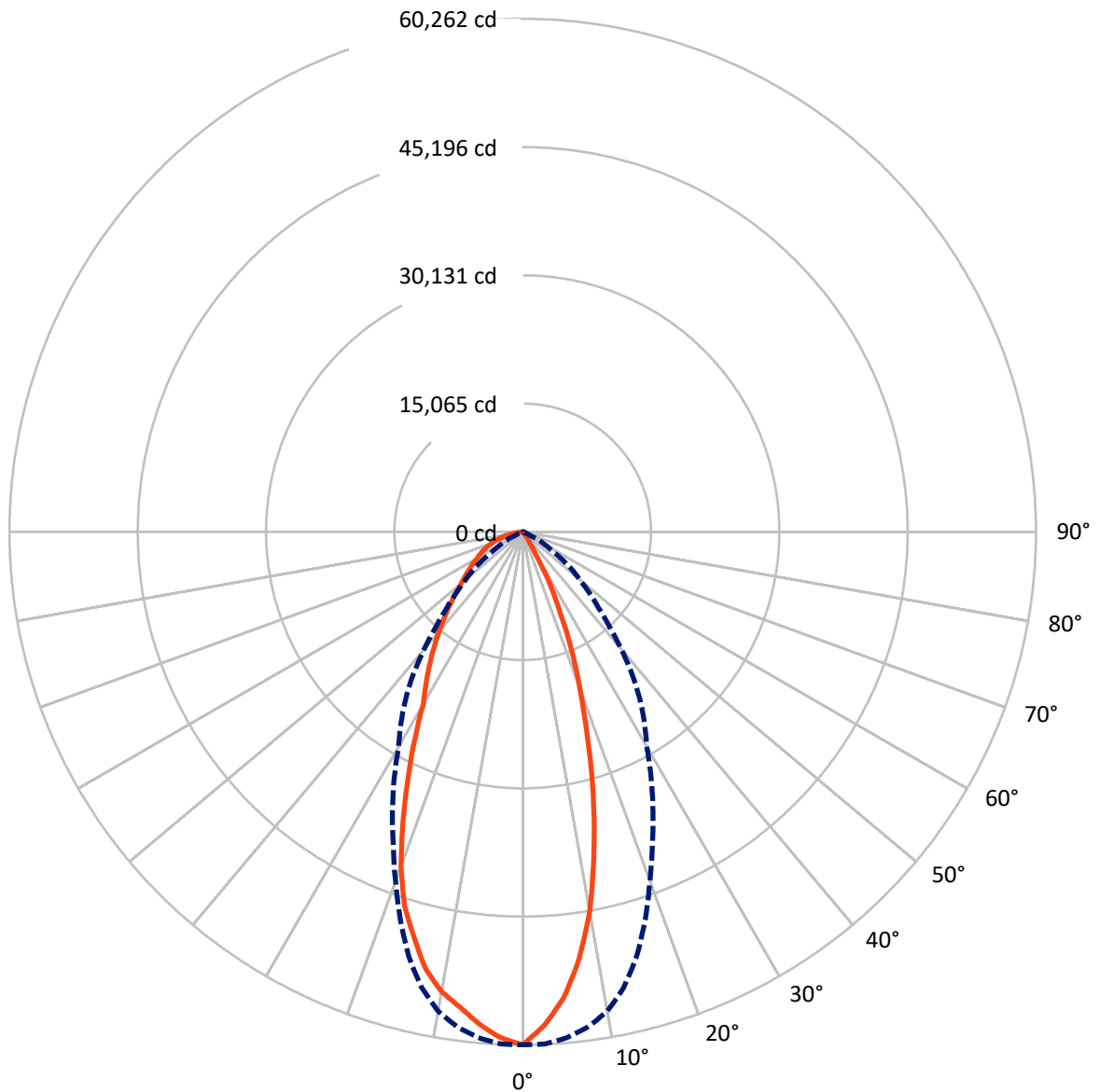
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### Lumen Table

90	0.4	2.6	6.3	4.6	3.6	4.6	6.3	2.6	0.4							
80	0.4	2.6	6.3	4.6	3.6	4.6	6.3	2.6	0.4							
70	0.6	0.7	1.7	2.6	1.9	1.0	0.7	0.7	0.7	0.7	1.0	1.9	2.6	1.7	0.7	0.6
60		0.8	1.2	1.3	1.1	1.0	0.9	0.9	0.9	0.9	1.0	1.1	1.3	1.2	0.8	
50	0.8	0.7	1.6	2.6	3.6	4.5	5.5	6.2	6.2	5.5	4.5	3.6	2.6	1.6	0.7	0.8
40		1.2	5.5	12.7	20.8	27.3	36.0	41.0	41.0	36.0	27.3	20.8	12.7	5.5	1.2	
30	1.2	3.1	19.6	57.6	119.3	193.0	280.0	326.8	326.8	280.0	193.0	119.3	57.6	19.6	3.1	1.2
20		7.3	48.2	143.7	317.2	535.4	789.8	955.2	955.2	789.8	535.4	317.2	143.7	48.2	7.3	
10	3.1	14.2	84.8	244.6	529.2	896.7	1337.6	1614.8	1614.8	1337.6	896.7	529.2	244.6	84.8	14.2	3.1
0		23.3	109.0	281.5	577.5	978.8	1473.8	1739.8	1739.8	1473.8	978.8	577.5	281.5	109.0	23.3	
-10	7.3	27.2	108.9	263.7	512.0	850.9	1254.2	1474.8	1474.8	1254.2	850.9	512.0	263.7	108.9	27.2	7.3
-20		25.8	89.5	198.6	373.2	595.3	829.9	957.5	957.5	829.9	595.3	373.2	198.6	89.5	25.8	
-30	8.5	23.3	65.6	137.1	243.9	375.6	499.5	569.4	569.4	499.5	375.6	243.9	137.1	65.6	23.3	8.5
-40		18.8	47.9	96.5	167.3	249.4	320.0	361.1	361.1	320.0	249.4	167.3	96.5	47.9	18.8	
-50	5.7	14.1	33.6	64.7	108.5	158.8	204.0	228.9	228.9	204.0	158.8	108.5	64.7	33.6	14.1	5.7
-60		9.6	23.2	44.3	71.7	103.3	133.6	150.0	150.0	133.6	103.3	71.7	44.3	23.2	9.6	
-70	1.6	1.6	22.0	78.7	150.7	185.2	150.7	78.7	22.0	1.6						
-80		1.6	22.0	78.7	150.7	185.2	150.7	78.7	22.0	1.6						
-90	1.6	22.0	78.7	150.7	185.2	150.7	78.7	22.0	1.6							

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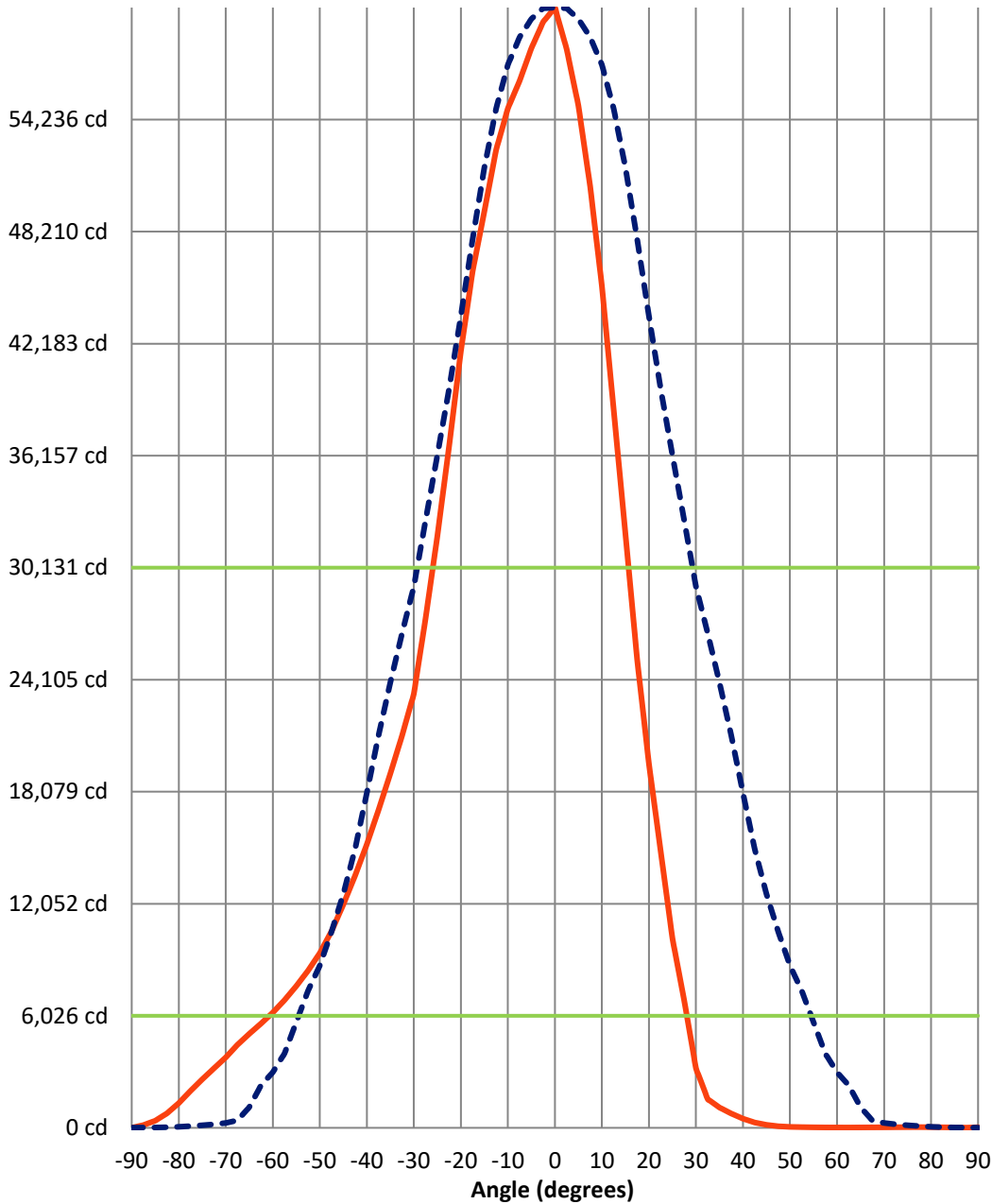
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 58.6°  
 V Angle: 41.6°  
 Lumens: 25559.1  
 Efficiency: 48.5%

**Field:**  
 H Angle: 109°  
 V Angle: 88.8°  
 Lumens: 47884.1  
 Efficiency: 90.8%

**Spill:**  
 Lumens: 4838  
 Efficiency: 9.2%

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



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	8.5	9.6	10.6	11.1	11.7	12.2	12.7	13.2	13.8	14.3	14.8
87.5°	8.5	8.8	9.2	9.8	10.5	11.4	12.3	12.6	12.8	12.9	12.9
85°	8.5	9.1	10.0	11.1	12.5	14.2	16.1	16.8	17.2	17.4	17.4
82.5°	8.5	9.5	10.7	12.4	14.5	17.0	19.9	20.9	21.5	22.9	25.7
80°	8.5	9.8	11.4	13.7	16.5	19.8	23.2	23.8	26.0	30.1	36.0
77.5°	8.5	10.1	12.1	14.9	18.4	21.6	23.6	25.8	30.2	36.9	43.8
75°	8.5	10.4	12.8	16.1	19.9	21.7	24.0	27.7	33.8	39.5	45.2
72.5°	8.5	10.7	13.5	17.3	19.8	21.7	24.3	29.0	34.8	40.6	46.4
70°	8.5	11.0	14.2	18.2	19.6	21.7	24.6	29.8	35.7	41.6	48.2
67.5°	8.5	11.3	14.8	18.0	19.5	21.7	25.5	30.5	36.5	43.3	50.0
65°	8.5	11.6	15.4	17.7	19.2	22.0	26.3	31.1	37.9	44.8	52.4
62.5°	8.5	11.8	16.0	17.4	19.0	22.8	27.1	32.0	39.2	46.7	56.3
60°	8.5	12.1	16.6	17.1	18.7	23.5	27.9	33.1	40.3	49.8	59.9
57.5°	8.5	12.4	16.5	16.8	19.3	24.2	29.1	34.1	42.5	52.6	61.6
55°	8.5	12.6	16.4	16.5	19.8	24.9	30.5	35.6	44.7	54.9	62.7
52.5°	8.5	12.8	16.3	16.1	20.4	25.6	31.9	38.0	46.8	56.0	63.7
50°	8.5	13.1	16.2	15.7	20.9	26.8	33.2	40.5	48.4	57.2	62.0
47.5°	8.5	13.3	16.2	15.5	21.4	28.0	34.7	43.0	49.5	58.3	60.1
45°	8.5	13.5	16.2	15.9	21.9	29.1	36.9	45.5	52.1	57.0	58.5
42.5°	8.5	13.7	16.2	16.2	22.4	30.3	39.0	48.1	55.1	55.8	56.8
40°	8.5	13.8	16.2	16.9	23.0	31.4	41.1	51.0	58.1	55.3	55.6
37.5°	8.5	14.0	16.3	17.8	23.8	32.4	43.1	54.1	60.6	58.6	55.0
35°	8.5	14.2	16.4	18.7	24.6	33.8	45.1	57.4	63.9	63.3	59.1
32.5°	8.5	14.3	16.5	19.6	25.4	35.4	47.3	60.9	67.9	69.3	75.9
30°	8.5	14.4	16.6	20.6	26.1	36.8	50.0	64.5	72.5	76.6	93.1
27.5°	8.5	14.5	16.8	21.6	28.1	38.2	52.8	68.1	78.1	85.0	110.7
25°	8.5	14.6	16.9	22.6	30.5	39.5	55.5	72.1	84.9	98.1	130.4
22.5°	8.5	14.7	17.1	23.6	32.9	41.9	58.3	76.3	92.2	113.0	193.3
20°	8.5	14.8	17.3	24.6	35.4	47.2	61.0	80.8	100.1	127.8	260.0
17.5°	8.5	14.8	17.5	25.6	38.0	52.8	68.0	85.4	108.4	142.5	329.1
15°	8.5	14.8	17.7	26.5	40.5	58.6	78.0	94.8	117.0	156.8	399.2
12.5°	8.5	14.9	18.0	27.5	43.1	64.5	88.1	110.3	134.8	170.7	469.0
10°	8.5	14.9	18.2	28.4	45.7	70.4	98.3	126.1	160.3	212.6	561.0
7.5°	8.5	14.9	18.4	29.3	48.2	76.3	108.5	142.0	186.2	260.1	704.1
5°	8.5	14.9	18.6	30.2	50.6	82.1	118.5	157.8	212.1	308.1	846.4
2.5°	8.5	14.8	18.8	31.0	52.9	87.8	128.2	173.3	237.6	355.8	983.5
0°	8.5	14.8	19.0	31.7	55.0	93.1	137.5	188.3	262.4	402.0	1110.8
-2.5°	8.5	15.1	20.4	36.4	65.7	113.1	173.2	247.2	355.1	551.9	1307.4
-5°	8.5	15.3	21.7	41.0	76.1	132.4	207.8	304.5	445.3	696.4	1487.0
-7.5°	8.5	15.6	23.0	45.3	86.1	150.9	241.0	359.5	531.4	832.9	1647.1
-10°	8.5	15.8	24.3	49.5	95.5	168.4	272.2	411.4	612.3	958.4	1785.4
-12.5°	8.5	16.0	25.5	53.4	104.3	184.6	301.0	459.2	686.5	1066.4	1837.8
-15°	8.5	16.2	26.6	56.9	112.3	199.3	327.0	502.5	751.5	1132.4	1845.9
-17.5°	8.5	16.3	27.7	60.0	119.4	212.4	349.8	543.6	807.5	1188.8	1842.9
-20°	8.5	16.5	28.6	62.7	125.5	223.5	372.1	582.0	856.0	1235.3	1830.2



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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°	8.5	16.6	29.4	65.0	130.5	232.7	395.8	614.8	896.4	1271.3	1808.8
-25°	8.5	16.7	30.2	66.7	134.4	244.7	415.4	641.6	928.1	1296.6	1780.1
-27.5°	8.5	16.7	30.8	67.9	137.1	256.1	430.7	662.1	950.8	1317.5	1798.2
-30°	8.5	16.8	31.2	68.6	138.9	264.7	441.5	675.9	969.7	1339.6	1805.4
-32.5°	8.5	16.8	31.6	68.6	143.2	270.3	447.6	686.5	983.0	1349.3	1799.1
-35°	8.5	16.8	31.8	68.0	145.7	272.8	452.4	691.7	987.1	1346.5	1779.1
-37.5°	8.5	16.7	31.8	66.8	146.6	273.5	454.1	690.1	981.6	1330.9	1692.3
-40°	8.5	16.6	31.7	65.0	145.6	273.6	451.2	681.7	966.7	1312.2	1605.3
-42.5°	8.5	16.5	31.5	63.2	144.3	270.9	443.5	666.4	947.4	1249.0	1512.7
-45°	8.5	16.3	31.1	62.1	142.9	265.3	431.2	647.5	921.7	1176.4	1417.2
-47.5°	8.5	16.2	30.6	60.1	140.0	256.9	414.2	626.5	886.3	1100.2	1332.1
-50°	8.5	16.0	29.9	59.5	135.6	245.7	398.4	599.2	824.3	1030.4	1243.2
-52.5°	8.5	15.7	29.1	58.9	129.8	231.8	379.5	565.8	766.1	957.7	1151.8
-55°	8.5	15.5	28.1	57.6	122.5	219.9	356.8	527.6	707.8	882.1	1068.1
-57.5°	8.5	15.2	27.0	55.5	113.8	206.8	330.4	492.7	646.9	811.0	981.6
-60°	8.5	14.9	25.8	52.9	104.1	191.6	301.5	448.9	585.2	739.2	895.2
-62.5°	8.5	14.5	24.9	49.6	97.1	174.5	277.1	400.8	527.9	664.7	812.0
-65°	8.5	14.1	23.8	45.7	89.0	155.5	250.0	353.4	467.5	592.6	726.0
-67.5°	8.5	13.8	22.7	41.3	80.0	137.4	220.5	311.8	404.4	518.5	639.3
-70°	8.5	13.3	21.6	36.4	69.9	120.5	188.8	268.1	350.3	441.4	550.1
-72.5°	8.5	12.9	20.4	33.2	59.1	102.3	160.5	222.6	294.1	373.3	460.0
-75°	8.5	12.5	19.1	30.4	47.5	82.9	131.3	181.3	235.8	302.9	376.4
-77.5°	8.5	12.0	17.7	27.4	40.9	62.5	100.6	140.9	184.9	233.6	290.3
-80°	8.5	11.5	16.4	24.3	35.4	49.4	68.7	99.4	133.7	171.7	213.3
-82.5°	8.5	11.0	15.0	21.1	29.6	40.3	53.3	65.7	81.6	108.7	138.5
-85°	8.5	10.6	13.5	17.8	23.7	31.1	39.9	48.4	57.7	67.9	79.0
-87.5°	8.5	10.1	12.1	14.5	17.7	21.7	26.4	30.9	35.8	41.2	47.0
-90°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5





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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°	15.3	15.9	16.4	16.9	17.4	18.0	18.5	19.0	20.1	21.2	22.2
87.5°	13.6	14.3	15.0	15.8	14.4	12.9	11.2	9.4	9.9	10.4	11.0
85°	18.7	20.1	21.9	23.4	22.3	21.4	20.7	20.3	21.4	22.3	23.0
82.5°	28.3	30.2	31.4	31.9	32.6	33.6	35.4	39.2	41.5	42.9	43.5
80°	38.9	40.4	41.6	44.5	49.5	55.5	62.3	69.9	72.0	71.6	70.2
77.5°	45.5	48.2	53.2	60.4	68.7	77.2	86.6	96.8	99.4	98.2	96.1
75°	49.4	55.3	63.6	73.8	84.7	96.1	108.2	119.3	122.0	118.5	114.1
72.5°	52.8	61.4	72.5	85.8	98.4	110.1	122.4	135.3	140.3	134.3	126.4
70°	55.8	66.7	80.1	94.5	108.8	121.2	133.3	147.2	156.1	144.9	127.7
67.5°	58.4	72.1	86.8	101.5	113.7	126.2	140.7	146.7	150.0	132.1	113.6
65°	62.4	77.1	90.2	102.6	115.3	121.4	126.3	130.8	128.9	108.7	89.1
62.5°	66.3	78.2	90.5	100.4	104.4	108.1	107.5	103.2	96.6	84.0	68.8
60°	67.7	77.9	86.8	91.0	92.4	89.1	84.1	80.1	74.5	63.7	53.6
57.5°	68.5	74.5	79.4	80.6	76.8	71.5	69.6	64.0	59.9	53.2	44.0
55°	67.9	68.9	71.3	68.4	65.3	63.3	60.2	58.5	52.7	46.3	39.5
52.5°	65.1	64.1	61.9	60.6	61.5	61.1	60.0	57.0	51.7	45.3	41.5
50°	62.5	58.8	55.3	60.1	64.4	67.9	62.5	59.2	58.9	55.9	49.8
47.5°	59.3	54.4	57.4	64.7	76.9	81.4	73.8	73.6	76.0	82.0	74.7
45°	56.4	58.2	63.0	81.1	96.1	103.0	104.1	95.9	116.2	123.0	120.9
42.5°	54.3	66.4	88.1	100.7	124.8	139.6	145.5	157.6	169.7	184.4	188.1
40°	62.2	77.0	125.8	147.3	162.2	187.6	218.3	238.3	242.0	264.3	274.4
37.5°	72.6	119.8	177.3	214.5	213.5	257.6	303.5	351.7	378.8	357.5	406.7
35°	84.3	170.2	251.6	305.8	319.6	346.9	427.9	520.1	609.2	557.0	582.4
32.5°	119.1	228.0	338.4	421.5	502.3	520.7	570.9	820.7	982.4	985.0	854.9
30°	176.2	309.2	442.1	555.5	742.3	828.0	908.2	1218.5	1490.3	1665.3	1702.4
27.5°	247.7	402.0	568.8	773.0	1037.7	1192.4	1452.0	1785.1	2212.8	2533.1	2754.5
25°	328.0	545.6	707.3	1048.0	1390.4	1674.4	2038.8	2497.3	3097.2	3610.5	4089.7
22.5°	431.3	712.3	927.0	1356.2	1781.1	2195.6	2701.5	3360.7	4124.1	4791.6	5470.7
20°	561.2	901.7	1213.5	1736.3	2225.4	2724.3	3373.4	4290.1	5256.4	6200.1	7081.2
17.5°	701.9	1101.2	1534.5	2170.5	2832.4	3396.5	4076.2	5255.3	6448.9	7744.9	9028.2
15°	850.1	1307.9	1852.6	2644.3	3484.1	4252.0	5151.0	6352.3	7771.5	9433.8	11089.5
12.5°	1002.2	1518.4	2164.8	3145.7	4163.7	5123.3	6267.9	7638.5	9268.0	11239.3	13247.0
10°	1154.6	1729.1	2467.5	3661.6	4858.3	5998.7	7356.6	8880.4	10743.4	12958.6	15229.7
7.5°	1430.7	2005.9	2781.5	4177.8	5553.2	6865.4	8407.6	10069.3	12140.8	14603.4	17087.4
5°	1725.5	2346.9	3209.8	4719.2	6209.5	7626.0	9352.7	11194.1	13449.1	16152.3	18845.9
2.5°	2011.9	2674.9	3618.5	5224.8	6812.8	8206.1	9988.2	11924.5	14312.7	17233.9	20181.6
0°	2280.9	2987.6	4003.2	5683.2	7367.4	8730.1	10551.8	12574.6	14995.1	18008.1	21110.0
-2.5°	2523.8	3273.4	4327.1	5963.6	7538.7	8859.7	10694.4	12722.9	15117.0	18011.0	20878.5
-5°	2737.5	3539.8	4620.5	6197.7	7666.6	8945.7	10762.1	12782.7	15130.6	17881.4	20558.8
-7.5°	2919.4	3785.1	4881.6	6366.1	7734.7	9014.7	10776.5	12761.5	15050.8	17646.0	20181.3
-10°	3040.9	3886.2	4898.0	6322.4	7716.0	9042.4	10727.2	12659.3	14863.5	17311.8	19713.4
-12.5°	2962.4	3848.7	4839.8	6225.0	7651.7	9006.5	10612.4	12480.0	14572.5	16898.0	19160.6
-15°	2873.5	3786.7	4744.8	6072.3	7541.8	8902.9	10435.5	12227.9	14073.2	16220.4	18452.9
-17.5°	2778.7	3698.9	4612.0	5862.7	7386.8	8727.8	10107.8	11563.0	13256.1	15362.1	17567.4
-20°	2682.3	3584.7	4440.5	5595.5	7174.1	8282.9	9412.4	10765.3	12370.6	14331.1	16538.8



REPORT NUMBER: P731615 (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°	2588.2	3443.1	4259.5	5360.6	6607.3	7653.6	8674.2	9891.5	11349.5	13123.6	15058.2
-25°	2517.3	3296.5	4084.2	4976.7	6011.6	7014.3	7882.1	8961.2	10287.5	11805.0	13335.6
-27.5°	2462.4	3166.5	3836.2	4597.9	5451.6	6369.7	7140.4	8067.0	9315.8	10531.2	11712.6
-30°	2403.8	2994.4	3585.0	4248.5	5003.2	5764.5	6433.2	7337.5	8448.6	9497.4	10437.7
-32.5°	2290.8	2812.5	3365.0	3963.0	4595.9	5223.1	5922.8	6779.6	7708.2	8610.0	9364.4
-35°	2156.9	2641.8	3153.1	3680.9	4215.6	4822.0	5518.9	6253.8	7039.6	7854.9	8714.5
-37.5°	2044.6	2464.1	2935.0	3419.5	3913.2	4478.0	5101.6	5776.3	6473.0	7202.1	8043.6
-40°	1923.9	2279.9	2727.8	3176.6	3631.0	4139.2	4712.3	5310.8	5935.2	6625.7	7354.0
-42.5°	1798.1	2137.2	2520.8	2929.0	3355.2	3810.5	4309.0	4865.4	5439.3	6045.9	6696.4
-45°	1689.9	1987.1	2316.5	2696.8	3075.9	3478.6	3929.1	4413.8	4952.5	5492.4	6058.7
-47.5°	1576.1	1838.0	2143.8	2460.9	2809.2	3166.1	3543.2	3999.9	4465.0	4960.1	5450.7
-50°	1462.4	1707.6	1964.3	2256.6	2555.2	2868.1	3198.9	3607.1	4033.9	4450.2	4880.3
-52.5°	1360.6	1572.0	1812.9	2061.0	2327.2	2598.6	2905.3	3260.6	3636.6	4007.2	4390.2
-55°	1255.2	1453.2	1665.3	1888.8	2117.2	2358.5	2640.9	2957.4	3266.6	3611.5	3954.3
-57.5°	1155.4	1338.1	1530.9	1728.1	1933.3	2141.9	2413.7	2676.8	2964.0	3250.3	3547.6
-60°	1057.8	1226.9	1403.9	1582.7	1760.6	1969.7	2200.4	2445.3	2689.8	2933.3	3211.4
-62.5°	959.1	1120.8	1281.9	1444.2	1609.5	1803.4	2023.2	2239.1	2447.4	2679.2	2915.2
-65°	864.8	1012.3	1164.5	1314.4	1461.1	1649.1	1847.2	2051.4	2254.0	2448.6	2649.0
-67.5°	766.9	901.4	1041.7	1185.9	1327.0	1490.1	1667.1	1853.0	2042.0	2221.1	2404.7
-70°	664.2	785.4	911.9	1042.8	1179.5	1324.9	1476.2	1639.0	1806.3	1964.6	2124.4
-72.5°	557.1	662.2	774.1	892.5	1011.5	1136.1	1268.7	1408.6	1545.5	1678.1	1816.3
-75°	453.0	535.4	629.0	728.7	830.0	935.3	1046.1	1160.1	1270.1	1377.9	1488.9
-77.5°	350.7	415.9	486.9	563.4	639.2	721.0	807.6	898.6	984.1	1068.0	1153.1
-80°	252.9	293.9	345.8	402.4	459.5	517.9	577.7	638.8	693.5	750.9	812.8
-82.5°	166.6	196.0	226.9	259.1	291.6	325.1	361.5	404.6	440.7	476.4	512.3
-85°	88.0	97.2	115.8	135.4	154.4	174.1	194.5	215.6	234.3	252.2	269.1
-87.5°	51.7	56.6	61.6	66.7	70.9	75.1	79.2	83.3	89.1	94.8	100.6
-90°	8.5	8.5	8.5	8.5	8.0	7.4	6.9	6.3	6.3	6.3	6.3



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	23.3	24.4	25.4	26.5	27.5	28.0	28.6	29.1	29.6	30.1	30.7
87.5°	11.5	11.3	10.9	10.6	10.2	12.7	15.2	17.9	20.6	18.7	16.8
85°	23.5	23.4	23.3	23.0	22.7	26.1	29.7	33.3	36.9	33.7	30.3
82.5°	43.3	42.5	41.0	38.9	36.3	36.0	35.3	34.1	32.4	31.0	29.7
80°	68.1	65.0	60.9	56.0	50.4	47.3	44.4	41.1	37.6	36.5	35.7
77.5°	92.3	86.2	78.9	71.0	62.6	57.3	52.6	47.6	42.3	40.9	40.0
75°	109.0	101.3	90.6	79.2	67.3	59.4	53.4	47.5	41.7	39.6	38.4
72.5°	116.7	105.3	92.2	77.0	62.4	52.9	47.0	41.6	36.6	34.5	33.5
70°	110.9	94.7	79.7	65.3	51.7	42.6	38.3	34.7	31.6	30.1	29.2
67.5°	94.5	78.0	63.8	51.1	40.6	33.7	31.3	29.2	27.3	26.3	25.9
65°	73.2	60.5	49.5	40.5	33.3	28.6	26.8	25.0	23.3	22.3	21.9
62.5°	55.5	45.6	38.5	32.9	28.4	25.2	23.8	22.7	21.7	21.0	20.5
60°	44.5	36.2	31.7	28.7	26.0	23.7	23.3	23.1	22.8	22.4	21.5
57.5°	38.1	32.9	29.6	28.9	27.7	26.2	25.7	25.6	24.7	23.2	22.5
55°	36.3	35.1	33.7	34.3	34.2	32.9	31.0	29.7	28.5	27.3	27.5
52.5°	40.5	43.2	44.6	44.5	42.4	39.2	35.6	36.1	36.8	37.4	38.0
50°	54.1	57.4	57.3	52.7	52.4	50.6	46.2	48.2	50.9	51.5	51.9
47.5°	75.0	78.3	80.5	72.2	73.7	78.1	73.4	72.0	81.0	85.0	86.9
45°	109.3	122.8	126.7	129.1	125.5	137.2	137.3	131.8	149.2	158.7	162.0
42.5°	182.3	204.9	222.7	228.0	223.7	238.2	249.4	248.5	270.4	285.9	290.0
40°	305.0	326.3	351.9	361.4	365.6	378.8	407.0	425.1	447.0	471.3	483.6
37.5°	462.5	495.9	501.1	520.7	545.3	557.8	600.5	636.9	666.8	712.3	741.4
35°	693.2	781.4	686.3	731.4	793.9	801.0	839.8	924.1	945.1	1024.7	1068.6
32.5°	1118.8	1283.0	1261.4	1108.7	1243.0	1395.3	1225.6	1527.5	1500.5	1585.4	1693.3
30°	1765.7	2243.2	2296.1	2072.8	2445.5	2647.8	2615.3	2916.0	3108.7	3084.9	3458.9
27.5°	3150.0	3532.9	3706.8	4027.5	4228.9	4527.0	5052.0	5358.0	5908.1	6196.8	6543.0
25°	4648.1	5100.9	5659.7	6211.2	6630.1	7291.1	8027.9	8607.2	9385.9	9874.4	10230.5
22.5°	6267.7	7067.4	7845.3	8613.5	9459.2	10369.5	11238.8	12242.7	13190.5	13890.2	14419.3
20°	8043.2	9149.9	10250.2	11304.9	12359.9	13577.1	14653.6	15860.0	17024.1	18036.2	18733.2
17.5°	10238.1	11395.3	12800.4	14211.6	15578.4	17085.8	18675.6	20028.4	21661.0	23009.2	24023.3
15°	12628.7	14077.8	15611.3	17376.4	19222.3	21087.3	23015.7	25004.5	26862.9	28586.7	29877.9
12.5°	15097.1	16900.9	18769.5	20723.8	22864.2	25185.3	27608.5	29975.7	32273.5	34168.2	35939.7
10°	17468.3	19722.6	21890.8	24180.9	26645.7	29242.3	32080.0	34899.7	37570.3	39904.2	41810.5
7.5°	19546.0	21993.3	24494.8	27303.0	30228.6	33138.3	36212.8	39375.7	42415.3	45105.6	47334.2
5°	21499.1	24052.3	26586.5	29607.6	32835.6	36174.6	39655.5	43208.6	46490.3	49531.8	52000.0
2.5°	23021.8	25707.4	28313.2	31625.8	35032.0	38432.5	41982.0	45866.6	49527.3	52833.6	55255.4
0°	23951.6	26602.8	29120.6	32675.3	36179.2	39748.6	43663.0	47797.4	51652.5	54819.9	57179.1
-2.5°	23630.0	26216.7	28948.2	32439.9	36144.1	39714.2	43674.0	47846.4	51676.4	54895.1	57198.9
-5°	23188.5	25724.4	28489.0	31982.7	35597.9	39163.8	43067.8	47171.1	50932.6	54099.1	56281.0
-7.5°	22645.6	25093.3	27789.1	31177.4	34772.5	38342.6	42142.9	46025.2	49622.7	52770.2	54823.4
-10°	22003.9	24324.2	26991.2	30250.2	33817.8	37259.3	40870.3	44715.4	48325.7	51188.1	53391.8
-12.5°	21338.1	23598.7	26075.3	29158.8	32574.1	35773.7	39221.4	42924.1	46104.8	49032.2	50968.7
-15°	20575.7	22743.6	25065.9	27908.0	31003.5	33998.2	36993.0	40258.3	43160.7	45763.6	47821.3
-17.5°	19693.3	21747.3	23785.4	26341.0	29304.7	31979.6	34601.6	37445.0	40025.2	42415.0	44196.4
-20°	18474.5	20164.7	22123.1	24567.9	27135.2	29391.5	31783.9	34172.4	36469.4	38492.4	40001.0



REPORT NUMBER: P731615 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-7F-CV2

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	16728.6	18373.3	20187.5	22187.1	24335.2	26407.6	28455.5	30409.7	32278.6	33962.0	35176.3
-25°	14870.3	16372.5	18010.2	19672.3	21387.5	23244.0	25040.2	26653.3	28190.1	29490.8	30490.9
-27.5°	13023.9	14444.5	15876.4	17217.7	18589.6	20140.3	21712.3	23062.9	24364.6	25383.5	26163.2
-30°	11374.7	12893.4	14154.2	15066.8	16396.3	17756.8	18776.0	20004.8	21030.3	21680.4	22518.4
-32.5°	10465.9	11611.4	12754.5	13692.8	14749.2	15942.9	16908.1	17911.9	18777.4	19476.1	20003.0
-35°	9636.9	10643.4	11609.3	12574.7	13517.9	14476.7	15366.3	16213.8	16981.3	17599.3	18087.5
-37.5°	8892.1	9763.3	10637.7	11470.4	12317.8	13119.2	13882.9	14613.8	15259.2	15816.1	16276.3
-40°	8140.2	8918.5	9687.4	10440.5	11181.4	11835.6	12492.3	13096.2	13640.9	14133.7	14536.1
-42.5°	7385.2	8079.7	8753.2	9436.3	10093.8	10661.6	11203.7	11703.0	12170.0	12590.0	12937.2
-45°	6642.8	7256.2	7849.7	8456.2	9010.6	9528.2	10000.8	10421.1	10822.4	11176.4	11468.2
-47.5°	5973.9	6473.3	7002.9	7520.7	8001.9	8468.0	8881.4	9251.4	9603.4	9903.2	10141.3
-50°	5352.1	5808.1	6254.5	6674.0	7123.7	7532.3	7882.1	8223.1	8543.2	8810.7	9011.6
-52.5°	4767.5	5188.3	5589.7	5981.0	6371.2	6734.8	7070.4	7382.2	7661.8	7907.0	8081.0
-55°	4304.7	4648.6	4973.8	5350.3	5708.4	6031.6	6332.1	6634.8	6904.4	7142.5	7287.9
-57.5°	3866.6	4176.9	4486.5	4812.0	5126.9	5430.6	5715.9	5981.1	6229.5	6452.3	6577.5
-60°	3475.6	3726.0	4020.4	4320.7	4606.3	4877.3	5145.1	5393.9	5624.8	5818.7	5929.4
-62.5°	3148.1	3386.0	3635.0	3885.8	4133.0	4385.2	4628.2	4859.4	5078.5	5255.1	5362.7
-65°	2859.2	3074.6	3292.4	3514.5	3739.7	3961.8	4168.7	4371.7	4569.8	4721.2	4818.1
-67.5°	2587.4	2772.7	2955.7	3144.7	3338.7	3530.3	3712.8	3892.7	4069.0	4191.2	4267.1
-70°	2289.4	2453.0	2610.6	2769.7	2928.2	3083.9	3234.7	3385.1	3533.8	3631.9	3696.8
-72.5°	1959.2	2095.9	2223.7	2350.9	2480.4	2608.3	2732.3	2853.0	2969.4	3045.3	3101.5
-75°	1602.5	1706.8	1806.1	1906.3	2006.7	2110.7	2213.2	2311.4	2404.9	2461.8	2505.4
-77.5°	1239.5	1313.2	1383.2	1453.8	1524.3	1604.9	1686.4	1765.6	1841.8	1882.0	1912.0
-80°	875.3	927.0	974.9	1020.6	1064.0	1115.4	1167.1	1217.2	1265.3	1288.3	1305.2
-82.5°	548.3	578.6	607.1	634.0	659.4	686.9	713.1	737.4	759.8	770.8	779.1
-85°	285.2	298.4	310.6	321.9	332.2	344.9	356.9	368.1	378.4	381.7	383.9
-87.5°	106.4	110.4	114.2	117.9	121.5	126.3	131.0	135.5	140.0	141.2	142.2
-90°	6.3	6.3	6.3	6.3	6.3	5.8	5.3	4.7	4.2	4.2	4.2



REPORT NUMBER: P731615 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-7F-CV2

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	31.2	31.7	31.7	31.7	31.7	31.7	31.2	30.7	30.1	29.6	29.1
87.5°	14.7	12.7	11.6	10.6	11.6	12.7	14.7	16.8	18.7	20.6	17.9
85°	26.8	23.2	22.2	21.2	22.2	23.2	26.8	30.3	33.7	36.9	33.3
82.5°	28.5	27.5	27.5	27.5	27.5	27.5	28.5	29.7	31.0	32.4	34.1
80°	34.8	33.8	33.9	33.9	33.9	33.8	34.8	35.7	36.5	37.6	41.1
77.5°	39.0	38.1	38.1	38.1	38.1	38.1	39.0	40.0	40.9	42.3	47.6
75°	37.3	36.1	36.0	36.0	36.0	36.1	37.3	38.4	39.6	41.7	47.5
72.5°	32.6	31.9	31.7	31.7	31.7	31.9	32.6	33.5	34.5	36.6	41.6
70°	28.4	27.7	27.5	27.5	27.5	27.7	28.4	29.2	30.1	31.6	34.7
67.5°	25.6	25.5	25.4	25.4	25.4	25.5	25.6	25.9	26.3	27.3	29.2
65°	21.6	21.4	21.2	21.2	21.2	21.4	21.6	21.9	22.3	23.3	25.0
62.5°	19.9	19.2	18.1	16.9	18.1	19.2	19.9	20.5	21.0	21.7	22.7
60°	20.5	19.3	19.0	19.0	19.0	19.3	20.5	21.5	22.4	22.8	23.1
57.5°	21.8	21.3	21.2	21.2	21.2	21.3	21.8	22.5	23.2	24.7	25.6
55°	27.5	27.3	27.4	27.5	27.4	27.3	27.5	27.5	27.3	28.5	29.7
52.5°	38.2	37.9	37.9	38.1	37.9	37.9	38.2	38.0	37.4	36.8	36.1
50°	52.5	52.5	51.9	50.8	51.9	52.5	52.5	51.9	51.5	50.9	48.2
47.5°	88.2	86.9	85.4	84.6	85.4	86.9	88.2	86.9	85.0	81.0	72.0
45°	165.8	164.5	162.1	160.8	162.1	164.5	165.8	162.0	158.7	149.2	131.8
42.5°	296.8	294.4	288.8	285.6	288.8	294.4	296.8	290.0	285.9	270.4	248.5
40°	497.5	500.1	495.8	493.0	495.8	500.1	497.5	483.6	471.3	447.0	425.1
37.5°	764.6	775.8	774.4	770.2	774.4	775.8	764.6	741.4	712.3	666.8	636.9
35°	1088.9	1101.3	1094.9	1093.9	1094.9	1101.3	1088.9	1068.6	1024.7	945.1	924.1
32.5°	1612.2	1594.0	1525.7	1544.6	1525.7	1594.0	1612.2	1693.3	1585.4	1500.5	1527.5
30°	3484.1	3551.1	3360.1	3207.7	3360.1	3551.1	3484.1	3458.9	3084.9	3108.7	2916.0
27.5°	6577.2	6721.7	6694.7	6851.2	6694.7	6721.7	6577.2	6543.0	6196.8	5908.1	5358.0
25°	10370.2	10466.0	10472.1	10190.0	10472.1	10466.0	10370.2	10230.5	9874.4	9385.9	8607.2
22.5°	14615.1	14707.6	14876.3	14876.6	14876.3	14707.6	14615.1	14419.3	13890.2	13190.5	12242.7
20°	19217.8	19234.7	19556.9	19580.2	19556.9	19234.7	19217.8	18733.2	18036.2	17024.1	15860.0
17.5°	24737.1	25005.5	25441.1	25187.3	25441.1	25005.5	24737.1	24023.3	23009.2	21661.0	20028.4
15°	31099.8	31699.4	32165.1	31955.9	32165.1	31699.4	31099.8	29877.9	28586.7	26862.9	25004.5
12.5°	37348.2	38293.6	38743.6	38633.6	38743.6	38293.6	37348.2	35939.7	34168.2	32273.5	29975.7
10°	43295.9	44626.5	45104.4	45273.2	45104.4	44626.5	43295.9	41810.5	39904.2	37570.3	34899.7
7.5°	48997.8	50217.1	50941.7	50639.0	50941.7	50217.1	48997.8	47334.2	45105.6	42415.3	39375.7
5°	53574.1	54603.9	55189.2	54980.7	55189.2	54603.9	53574.1	52000.0	49531.8	46490.3	43208.6
2.5°	56815.0	57776.6	58284.0	58028.7	58284.0	57776.6	56815.0	55255.4	52833.6	49527.3	45866.6
0°	58666.5	59646.2	60220.6	60261.9	60220.6	59646.2	58666.5	57179.1	54819.9	51652.5	47797.4
-2.5°	58594.2	59286.3	59690.0	59484.4	59690.0	59286.3	58594.2	57198.9	54895.1	51676.4	47846.4
-5°	57367.6	57952.0	58161.7	58072.0	58161.7	57952.0	57367.6	56281.0	54099.1	50932.6	47171.1
-7.5°	55854.3	56285.1	56429.3	56322.2	56429.3	56285.1	55854.3	54823.4	52770.2	49622.7	46025.2
-10°	54390.2	54820.8	54893.8	54832.6	54893.8	54820.8	54390.2	53391.8	51188.1	48325.7	44715.4
-12.5°	52258.5	52725.3	52740.4	52598.3	52740.4	52725.3	52258.5	50968.7	49032.2	46104.8	42924.1
-15°	48933.9	49315.6	49377.1	49297.5	49377.1	49315.6	48933.9	47821.3	45763.6	43160.7	40258.3
-17.5°	45238.6	45491.2	45765.1	46070.8	45765.1	45491.2	45238.6	44196.4	42415.0	40025.2	37445.0
-20°	40801.8	41104.0	41427.2	41769.3	41427.2	41104.0	40801.8	40001.0	38492.4	36469.4	34172.4



REPORT NUMBER: P731615 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	35815.3	36155.0	36486.4	36659.5	36486.4	36155.0	35815.3	35176.3	33962.0	32278.6	30409.7
-25°	30991.8	31405.5	31667.1	31824.7	31667.1	31405.5	30991.8	30490.9	29490.8	28190.1	26653.3
-27.5°	26569.9	27060.3	27301.7	27404.7	27301.7	27060.3	26569.9	26163.2	25383.5	24364.6	23062.9
-30°	22845.5	23146.6	23188.3	23344.3	23188.3	23146.6	22845.5	22518.4	21680.4	21030.3	20004.8
-32.5°	20390.2	20724.7	20928.0	21099.4	20928.0	20724.7	20390.2	20003.0	19476.1	18777.4	17911.9
-35°	18466.5	18769.6	18969.0	19051.2	18969.0	18769.6	18466.5	18087.5	17599.3	16981.3	16213.8
-37.5°	16622.7	16851.7	16991.1	17102.5	16991.1	16851.7	16622.7	16276.3	15816.1	15259.2	14613.8
-40°	14844.9	15072.0	15209.9	15246.9	15209.9	15072.0	14844.9	14536.1	14133.7	13640.9	13096.2
-42.5°	13185.7	13360.5	13480.6	13562.7	13480.6	13360.5	13185.7	12937.2	12590.0	12170.0	11703.0
-45°	11683.2	11837.3	11944.1	12009.6	11944.1	11837.3	11683.2	11468.2	11176.4	10822.4	10421.1
-47.5°	10316.6	10440.6	10525.7	10575.1	10525.7	10440.6	10316.6	10141.3	9903.2	9603.4	9251.4
-50°	9161.5	9272.3	9350.9	9398.7	9350.9	9272.3	9161.5	9011.6	8810.7	8543.2	8223.1
-52.5°	8217.0	8324.7	8403.8	8455.0	8403.8	8324.7	8217.0	8081.0	7907.0	7661.8	7382.2
-55°	7408.6	7507.6	7579.2	7625.6	7579.2	7507.6	7408.6	7287.9	7142.5	6904.4	6634.8
-57.5°	6683.9	6771.3	6831.9	6870.2	6831.9	6771.3	6683.9	6577.5	6452.3	6229.5	5981.1
-60°	6023.9	6102.6	6158.4	6197.4	6158.4	6102.6	6023.9	5929.4	5818.7	5624.8	5393.9
-62.5°	5457.9	5540.6	5585.0	5609.2	5585.0	5540.6	5457.9	5362.7	5255.1	5078.5	4859.4
-65°	4907.1	4987.0	5030.0	5054.8	5030.0	4987.0	4907.1	4818.1	4721.2	4569.8	4371.7
-67.5°	4334.1	4391.6	4435.5	4468.7	4435.5	4391.6	4334.1	4267.1	4191.2	4069.0	3892.7
-70°	3752.7	3799.2	3800.7	3787.4	3800.7	3799.2	3752.7	3696.8	3631.9	3533.8	3385.1
-72.5°	3150.1	3190.9	3201.6	3201.3	3201.6	3190.9	3150.1	3101.5	3045.3	2969.4	2853.0
-75°	2543.1	2574.4	2595.4	2608.9	2595.4	2574.4	2543.1	2505.4	2461.8	2404.9	2311.4
-77.5°	1936.6	1955.4	1972.9	1984.7	1972.9	1955.4	1936.6	1912.0	1882.0	1841.8	1765.6
-80°	1318.1	1326.8	1328.8	1326.6	1328.8	1326.8	1318.1	1305.2	1288.3	1265.3	1217.2
-82.5°	785.1	788.8	784.9	778.6	784.9	788.8	785.1	779.1	770.8	759.8	737.4
-85°	385.1	385.4	384.7	383.0	384.7	385.4	385.1	383.9	381.7	378.4	368.1
-87.5°	142.9	143.5	145.9	148.1	145.9	143.5	142.9	142.2	141.2	140.0	135.5
-90°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.7



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	28.6	28.0	27.5	26.5	25.4	24.4	23.3	22.2	21.2	20.1	19.0
87.5°	15.2	12.7	10.2	10.6	10.9	11.3	11.5	11.0	10.4	9.9	9.4
85°	29.7	26.1	22.7	23.0	23.3	23.4	23.5	23.0	22.3	21.4	20.3
82.5°	35.3	36.0	36.3	38.9	41.0	42.5	43.3	43.5	42.9	41.5	39.2
80°	44.4	47.3	50.4	56.0	60.9	65.0	68.1	70.2	71.6	72.0	69.9
77.5°	52.6	57.3	62.6	71.0	78.9	86.2	92.3	96.1	98.2	99.4	96.8
75°	53.4	59.4	67.3	79.2	90.6	101.3	109.0	114.1	118.5	122.0	119.3
72.5°	47.0	52.9	62.4	77.0	92.2	105.3	116.7	126.4	134.3	140.3	135.3
70°	38.3	42.6	51.7	65.3	79.7	94.7	110.9	127.7	144.9	156.1	147.2
67.5°	31.3	33.7	40.6	51.1	63.8	78.0	94.5	113.6	132.1	150.0	146.7
65°	26.8	28.6	33.3	40.5	49.5	60.5	73.2	89.1	108.7	128.9	130.8
62.5°	23.8	25.2	28.4	32.9	38.5	45.6	55.5	68.8	84.0	96.6	103.2
60°	23.3	23.7	26.0	28.7	31.7	36.2	44.5	53.6	63.7	74.5	80.1
57.5°	25.7	26.2	27.7	28.9	29.6	32.9	38.1	44.0	53.2	59.9	64.0
55°	31.0	32.9	34.2	34.3	33.7	35.1	36.3	39.5	46.3	52.7	58.5
52.5°	35.6	39.2	42.4	44.5	44.6	43.2	40.5	41.5	45.3	51.7	57.0
50°	46.2	50.6	52.4	52.7	57.3	57.4	54.1	49.8	55.9	58.9	59.2
47.5°	73.4	78.1	73.7	72.2	80.5	78.3	75.0	74.7	82.0	76.0	73.6
45°	137.3	137.2	125.5	129.1	126.7	122.8	109.3	120.9	123.0	116.2	95.9
42.5°	249.4	238.2	223.7	228.0	222.7	204.9	182.3	188.1	184.4	169.7	157.6
40°	407.0	378.8	365.6	361.4	351.9	326.3	305.0	274.4	264.3	242.0	238.3
37.5°	600.5	557.8	545.3	520.7	501.1	495.9	462.5	406.7	357.5	378.8	351.7
35°	839.8	801.0	793.9	731.4	686.3	781.4	693.2	582.4	557.0	609.2	520.1
32.5°	1225.6	1395.3	1243.0	1108.7	1261.4	1283.0	1118.8	854.9	985.0	982.4	820.7
30°	2615.3	2647.8	2445.5	2072.8	2296.1	2243.2	1765.7	1702.4	1665.3	1490.3	1218.5
27.5°	5052.0	4527.0	4228.9	4027.5	3706.8	3532.9	3150.0	2754.5	2533.1	2212.8	1785.1
25°	8027.9	7291.1	6630.1	6211.2	5659.7	5100.9	4648.1	4089.7	3610.5	3097.2	2497.3
22.5°	11238.8	10369.5	9459.2	8613.5	7845.3	7067.4	6267.7	5470.7	4791.6	4124.1	3360.7
20°	14653.6	13577.1	12359.9	11304.9	10250.2	9149.9	8043.2	7081.2	6200.1	5256.4	4290.1
17.5°	18675.6	17085.8	15578.4	14211.6	12800.4	11395.3	10238.1	9028.2	7744.9	6448.9	5255.3
15°	23015.7	21087.3	19222.3	17376.4	15611.3	14077.8	12628.7	11089.5	9433.8	7771.5	6352.3
12.5°	27608.5	25185.3	22864.2	20723.8	18769.5	16900.9	15097.1	13247.0	11239.3	9268.0	7638.5
10°	32080.0	29242.3	26645.7	24180.9	21890.8	19722.6	17468.3	15229.7	12958.6	10743.4	8880.4
7.5°	36212.8	33138.3	30228.6	27303.0	24494.8	21993.3	19546.0	17087.4	14603.4	12140.8	10069.3
5°	39655.5	36174.6	32835.6	29607.6	26586.5	24052.3	21499.1	18845.9	16152.3	13449.1	11194.1
2.5°	41982.0	38432.5	35032.0	31625.8	28313.2	25707.4	23021.8	20181.6	17233.9	14312.7	11924.5
0°	43663.0	39748.6	36179.2	32675.3	29120.6	26602.8	23951.6	21110.0	18008.1	14995.1	12574.6
-2.5°	43674.0	39714.2	36144.1	32439.9	28948.2	26216.7	23630.0	20878.5	18011.0	15117.0	12722.9
-5°	43067.8	39163.8	35597.9	31982.7	28489.0	25724.4	23188.5	20558.8	17881.4	15130.6	12782.7
-7.5°	42142.9	38342.6	34772.5	31177.4	27789.1	25093.3	22645.6	20181.3	17646.0	15050.8	12761.5
-10°	40870.3	37259.3	33817.8	30250.2	26991.2	24324.2	22003.9	19713.4	17311.8	14863.5	12659.3
-12.5°	39221.4	35773.7	32574.1	29158.8	26075.3	23598.7	21338.1	19160.6	16898.0	14572.5	12480.0
-15°	36993.0	33998.2	31003.5	27908.0	25065.9	22743.6	20575.7	18452.9	16220.4	14073.2	12227.9
-17.5°	34601.6	31979.6	29304.7	26341.0	23785.4	21747.3	19693.3	17567.4	15362.1	13256.1	11563.0
-20°	31783.9	29391.5	27135.2	24567.9	22123.1	20164.7	18474.5	16538.8	14331.1	12370.6	10765.3



REPORT NUMBER: P731615 (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°	28455.5	26407.6	24335.2	22187.1	20187.5	18373.3	16728.6	15058.2	13123.6	11349.5	9891.5
-25°	25040.2	23244.0	21387.5	19672.3	18010.2	16372.5	14870.3	13335.6	11805.0	10287.5	8961.2
-27.5°	21712.3	20140.3	18589.6	17217.7	15876.4	14444.5	13023.9	11712.6	10531.2	9315.8	8067.0
-30°	18776.0	17756.8	16396.3	15066.8	14154.2	12893.4	11374.7	10437.7	9497.4	8448.6	7337.5
-32.5°	16908.1	15942.9	14749.2	13692.8	12754.5	11611.4	10465.9	9364.4	8610.0	7708.2	6779.6
-35°	15366.3	14476.7	13517.9	12574.7	11609.3	10643.4	9636.9	8714.5	7854.9	7039.6	6253.8
-37.5°	13882.9	13119.2	12317.8	11470.4	10637.7	9763.3	8892.1	8043.6	7202.1	6473.0	5776.3
-40°	12492.3	11835.6	11181.4	10440.5	9687.4	8918.5	8140.2	7354.0	6625.7	5935.2	5310.8
-42.5°	11203.7	10661.6	10093.8	9436.3	8753.2	8079.7	7385.2	6696.4	6045.9	5439.3	4865.4
-45°	10000.8	9528.2	9010.6	8456.2	7849.7	7256.2	6642.8	6058.7	5492.4	4952.5	4413.8
-47.5°	8881.4	8468.0	8001.9	7520.7	7002.9	6473.3	5973.9	5450.7	4960.1	4465.0	3999.9
-50°	7882.1	7532.3	7123.7	6674.0	6254.5	5808.1	5352.1	4880.3	4450.2	4033.9	3607.1
-52.5°	7070.4	6734.8	6371.2	5981.0	5589.7	5188.3	4767.5	4390.2	4007.2	3636.6	3260.6
-55°	6332.1	6031.6	5708.4	5350.3	4973.8	4648.6	4304.7	3954.3	3611.5	3266.6	2957.4
-57.5°	5715.9	5430.6	5126.9	4812.0	4486.5	4176.9	3866.6	3547.6	3250.3	2964.0	2676.8
-60°	5145.1	4877.3	4606.3	4320.7	4020.4	3726.0	3475.6	3211.4	2933.3	2689.8	2445.3
-62.5°	4628.2	4385.2	4133.0	3885.8	3635.0	3386.0	3148.1	2915.2	2679.2	2447.4	2239.1
-65°	4168.7	3961.8	3739.7	3514.5	3292.4	3074.6	2859.2	2649.0	2448.6	2254.0	2051.4
-67.5°	3712.8	3530.3	3338.7	3144.7	2955.7	2772.7	2587.4	2404.7	2221.1	2042.0	1853.0
-70°	3234.7	3083.9	2928.2	2769.7	2610.6	2453.0	2289.4	2124.4	1964.6	1806.3	1639.0
-72.5°	2732.3	2608.3	2480.4	2350.9	2223.7	2095.9	1959.2	1816.3	1678.1	1545.5	1408.6
-75°	2213.2	2110.7	2006.7	1906.3	1806.1	1706.8	1602.5	1488.9	1377.9	1270.1	1160.1
-77.5°	1686.4	1604.9	1524.3	1453.8	1383.2	1313.2	1239.5	1153.1	1068.0	984.1	898.6
-80°	1167.1	1115.4	1064.0	1020.6	974.9	927.0	875.3	812.8	750.9	693.5	638.8
-82.5°	713.1	686.9	659.4	634.0	607.1	578.6	548.3	512.3	476.4	440.7	404.6
-85°	356.9	344.9	332.2	321.9	310.6	298.4	285.2	269.1	252.2	234.3	215.6
-87.5°	131.0	126.3	121.5	117.9	114.2	110.4	106.4	100.6	94.8	89.1	83.3
-90°	5.3	5.8	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3





REPORT NUMBER: P731615 (CONVERTED FROM TYPE C PHOTOMETRY)  
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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°	18.5	18.0	17.4	16.9	16.4	15.9	15.3	14.8	14.3	13.8	13.2
87.5°	11.2	12.9	14.4	15.8	15.0	14.3	13.6	12.9	12.9	12.8	12.6
85°	20.7	21.4	22.3	23.4	21.9	20.1	18.7	17.4	17.4	17.2	16.8
82.5°	35.4	33.6	32.6	31.9	31.4	30.2	28.3	25.7	22.9	21.5	20.9
80°	62.3	55.5	49.5	44.5	41.6	40.4	38.9	36.0	30.1	26.0	23.8
77.5°	86.6	77.2	68.7	60.4	53.2	48.2	45.5	43.8	36.9	30.2	25.8
75°	108.2	96.1	84.7	73.8	63.6	55.3	49.4	45.2	39.5	33.8	27.7
72.5°	122.4	110.1	98.4	85.8	72.5	61.4	52.8	46.4	40.6	34.8	29.0
70°	133.3	121.2	108.8	94.5	80.1	66.7	55.8	48.2	41.6	35.7	29.8
67.5°	140.7	126.2	113.7	101.5	86.8	72.1	58.4	50.0	43.3	36.5	30.5
65°	126.3	121.4	115.3	102.6	90.2	77.1	62.4	52.4	44.8	37.9	31.1
62.5°	107.5	108.1	104.4	100.4	90.5	78.2	66.3	56.3	46.7	39.2	32.0
60°	84.1	89.1	92.4	91.0	86.8	77.9	67.7	59.9	49.8	40.3	33.1
57.5°	69.6	71.5	76.8	80.6	79.4	74.5	68.5	61.6	52.6	42.5	34.1
55°	60.2	63.3	65.3	68.4	71.3	68.9	67.9	62.7	54.9	44.7	35.6
52.5°	60.0	61.1	61.5	60.6	61.9	64.1	65.1	63.7	56.0	46.8	38.0
50°	62.5	67.9	64.4	60.1	55.3	58.8	62.5	62.0	57.2	48.4	40.5
47.5°	73.8	81.4	76.9	64.7	57.4	54.4	59.3	60.1	58.3	49.5	43.0
45°	104.1	103.0	96.1	81.1	63.0	58.2	56.4	58.5	57.0	52.1	45.5
42.5°	145.5	139.6	124.8	100.7	88.1	66.4	54.3	56.8	55.8	55.1	48.1
40°	218.3	187.6	162.2	147.3	125.8	77.0	62.2	55.6	55.3	58.1	51.0
37.5°	303.5	257.6	213.5	214.5	177.3	119.8	72.6	55.0	58.6	60.6	54.1
35°	427.9	346.9	319.6	305.8	251.6	170.2	84.3	59.1	63.3	63.9	57.4
32.5°	570.9	520.7	502.3	421.5	338.4	228.0	119.1	75.9	69.3	67.9	60.9
30°	908.2	828.0	742.3	555.5	442.1	309.2	176.2	93.1	76.6	72.5	64.5
27.5°	1452.0	1192.4	1037.7	773.0	568.8	402.0	247.7	110.7	85.0	78.1	68.1
25°	2038.8	1674.4	1390.4	1048.0	707.3	545.6	328.0	130.4	98.1	84.9	72.1
22.5°	2701.5	2195.6	1781.1	1356.2	927.0	712.3	431.3	193.3	113.0	92.2	76.3
20°	3373.4	2724.3	2225.4	1736.3	1213.5	901.7	561.2	260.0	127.8	100.1	80.8
17.5°	4076.2	3396.5	2832.4	2170.5	1534.5	1101.2	701.9	329.1	142.5	108.4	85.4
15°	5151.0	4252.0	3484.1	2644.3	1852.6	1307.9	850.1	399.2	156.8	117.0	94.8
12.5°	6267.9	5123.3	4163.7	3145.7	2164.8	1518.4	1002.2	469.0	170.7	134.8	110.3
10°	7356.6	5998.7	4858.3	3661.6	2467.5	1729.1	1154.6	561.0	212.6	160.3	126.1
7.5°	8407.6	6865.4	5553.2	4177.8	2781.5	2005.9	1430.7	704.1	260.1	186.2	142.0
5°	9352.7	7626.0	6209.5	4719.2	3209.8	2346.9	1725.5	846.4	308.1	212.1	157.8
2.5°	9988.2	8206.1	6812.8	5224.8	3618.5	2674.9	2011.9	983.5	355.8	237.6	173.3
0°	10551.8	8730.1	7367.4	5683.2	4003.2	2987.6	2280.9	1110.8	402.0	262.4	188.3
-2.5°	10694.4	8859.7	7538.7	5963.6	4327.1	3273.4	2523.8	1307.4	551.9	355.1	247.2
-5°	10762.1	8945.7	7666.6	6197.7	4620.5	3539.8	2737.5	1487.0	696.4	445.3	304.5
-7.5°	10776.5	9014.7	7734.7	6366.1	4881.6	3785.1	2919.4	1647.1	832.9	531.4	359.5
-10°	10727.2	9042.4	7716.0	6322.4	4898.0	3886.2	3040.9	1785.4	958.4	612.3	411.4
-12.5°	10612.4	9006.5	7651.7	6225.0	4839.8	3848.7	2962.4	1837.8	1066.4	686.5	459.2
-15°	10435.5	8902.9	7541.8	6072.3	4744.8	3786.7	2873.5	1845.9	1132.4	751.5	502.5
-17.5°	10107.8	8727.8	7386.8	5862.7	4612.0	3698.9	2778.7	1842.9	1188.8	807.5	543.6
-20°	9412.4	8282.9	7174.1	5595.5	4440.5	3584.7	2682.3	1830.2	1235.3	856.0	582.0



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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°	8674.2	7653.6	6607.3	5360.6	4259.5	3443.1	2588.2	1808.8	1271.3	896.4	614.8
-25°	7882.1	7014.3	6011.6	4976.7	4084.2	3296.5	2517.3	1780.1	1296.6	928.1	641.6
-27.5°	7140.4	6369.7	5451.6	4597.9	3836.2	3166.5	2462.4	1798.2	1317.5	950.8	662.1
-30°	6433.2	5764.5	5003.2	4248.5	3585.0	2994.4	2403.8	1805.4	1339.6	969.7	675.9
-32.5°	5922.8	5223.1	4595.9	3963.0	3365.0	2812.5	2290.8	1799.1	1349.3	983.0	686.5
-35°	5518.9	4822.0	4215.6	3680.9	3153.1	2641.8	2156.9	1779.1	1346.5	987.1	691.7
-37.5°	5101.6	4478.0	3913.2	3419.5	2935.0	2464.1	2044.6	1692.3	1330.9	981.6	690.1
-40°	4712.3	4139.2	3631.0	3176.6	2727.8	2279.9	1923.9	1605.3	1312.2	966.7	681.7
-42.5°	4309.0	3810.5	3355.2	2929.0	2520.8	2137.2	1798.1	1512.7	1249.0	947.4	666.4
-45°	3929.1	3478.6	3075.9	2696.8	2316.5	1987.1	1689.9	1417.2	1176.4	921.7	647.5
-47.5°	3543.2	3166.1	2809.2	2460.9	2143.8	1838.0	1576.1	1332.1	1100.2	886.3	626.5
-50°	3198.9	2868.1	2555.2	2256.6	1964.3	1707.6	1462.4	1243.2	1030.4	824.3	599.2
-52.5°	2905.3	2598.6	2327.2	2061.0	1812.9	1572.0	1360.6	1151.8	957.7	766.1	565.8
-55°	2640.9	2358.5	2117.2	1888.8	1665.3	1453.2	1255.2	1068.1	882.1	707.8	527.6
-57.5°	2413.7	2141.9	1933.3	1728.1	1530.9	1338.1	1155.4	981.6	811.0	646.9	492.7
-60°	2200.4	1969.7	1760.6	1582.7	1403.9	1226.9	1057.8	895.2	739.2	585.2	448.9
-62.5°	2023.2	1803.4	1609.5	1444.2	1281.9	1120.8	959.1	812.0	664.7	527.9	400.8
-65°	1847.2	1649.1	1461.1	1314.4	1164.5	1012.3	864.8	726.0	592.6	467.5	353.4
-67.5°	1667.1	1490.1	1327.0	1185.9	1041.7	901.4	766.9	639.3	518.5	404.4	311.8
-70°	1476.2	1324.9	1179.5	1042.8	911.9	785.4	664.2	550.1	441.4	350.3	268.1
-72.5°	1268.7	1136.1	1011.5	892.5	774.1	662.2	557.1	460.0	373.3	294.1	222.6
-75°	1046.1	935.3	830.0	728.7	629.0	535.4	453.0	376.4	302.9	235.8	181.3
-77.5°	807.6	721.0	639.2	563.4	486.9	415.9	350.7	290.3	233.6	184.9	140.9
-80°	577.7	517.9	459.5	402.4	345.8	293.9	252.9	213.3	171.7	133.7	99.4
-82.5°	361.5	325.1	291.6	259.1	226.9	196.0	166.6	138.5	108.7	81.6	65.7
-85°	194.5	174.1	154.4	135.4	115.8	97.2	88.0	79.0	67.9	57.7	48.4
-87.5°	79.2	75.1	70.9	66.7	61.6	56.6	51.7	47.0	41.2	35.8	30.9
-90°	6.9	7.4	8.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	12.7	12.2	11.7	11.1	10.6	9.6	8.5
87.5°	12.3	11.4	10.5	9.8	9.2	8.8	8.5
85°	16.1	14.2	12.5	11.1	10.0	9.1	8.5
82.5°	19.9	17.0	14.5	12.4	10.7	9.5	8.5
80°	23.2	19.8	16.5	13.7	11.4	9.8	8.5
77.5°	23.6	21.6	18.4	14.9	12.1	10.1	8.5
75°	24.0	21.7	19.9	16.1	12.8	10.4	8.5
72.5°	24.3	21.7	19.8	17.3	13.5	10.7	8.5
70°	24.6	21.7	19.6	18.2	14.2	11.0	8.5
67.5°	25.5	21.7	19.5	18.0	14.8	11.3	8.5
65°	26.3	22.0	19.2	17.7	15.4	11.6	8.5
62.5°	27.1	22.8	19.0	17.4	16.0	11.8	8.5
60°	27.9	23.5	18.7	17.1	16.6	12.1	8.5
57.5°	29.1	24.2	19.3	16.8	16.5	12.4	8.5
55°	30.5	24.9	19.8	16.5	16.4	12.6	8.5
52.5°	31.9	25.6	20.4	16.1	16.3	12.8	8.5
50°	33.2	26.8	20.9	15.7	16.2	13.1	8.5
47.5°	34.7	28.0	21.4	15.5	16.2	13.3	8.5
45°	36.9	29.1	21.9	15.9	16.2	13.5	8.5
42.5°	39.0	30.3	22.4	16.2	16.2	13.7	8.5
40°	41.1	31.4	23.0	16.9	16.2	13.8	8.5
37.5°	43.1	32.4	23.8	17.8	16.3	14.0	8.5
35°	45.1	33.8	24.6	18.7	16.4	14.2	8.5
32.5°	47.3	35.4	25.4	19.6	16.5	14.3	8.5
30°	50.0	36.8	26.1	20.6	16.6	14.4	8.5
27.5°	52.8	38.2	28.1	21.6	16.8	14.5	8.5
25°	55.5	39.5	30.5	22.6	16.9	14.6	8.5
22.5°	58.3	41.9	32.9	23.6	17.1	14.7	8.5
20°	61.0	47.2	35.4	24.6	17.3	14.8	8.5
17.5°	68.0	52.8	38.0	25.6	17.5	14.8	8.5
15°	78.0	58.6	40.5	26.5	17.7	14.8	8.5
12.5°	88.1	64.5	43.1	27.5	18.0	14.9	8.5
10°	98.3	70.4	45.7	28.4	18.2	14.9	8.5
7.5°	108.5	76.3	48.2	29.3	18.4	14.9	8.5
5°	118.5	82.1	50.6	30.2	18.6	14.9	8.5
2.5°	128.2	87.8	52.9	31.0	18.8	14.8	8.5
0°	137.5	93.1	55.0	31.7	19.0	14.8	8.5
-2.5°	173.2	113.1	65.7	36.4	20.4	15.1	8.5
-5°	207.8	132.4	76.1	41.0	21.7	15.3	8.5
-7.5°	241.0	150.9	86.1	45.3	23.0	15.6	8.5
-10°	272.2	168.4	95.5	49.5	24.3	15.8	8.5
-12.5°	301.0	184.6	104.3	53.4	25.5	16.0	8.5
-15°	327.0	199.3	112.3	56.9	26.6	16.2	8.5
-17.5°	349.8	212.4	119.4	60.0	27.7	16.3	8.5
-20°	372.1	223.5	125.5	62.7	28.6	16.5	8.5



REPORT NUMBER: P731615 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-7F-CV2

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	395.8	232.7	130.5	65.0	29.4	16.6	8.5
-25°	415.4	244.7	134.4	66.7	30.2	16.7	8.5
-27.5°	430.7	256.1	137.1	67.9	30.8	16.7	8.5
-30°	441.5	264.7	138.9	68.6	31.2	16.8	8.5
-32.5°	447.6	270.3	143.2	68.6	31.6	16.8	8.5
-35°	452.4	272.8	145.7	68.0	31.8	16.8	8.5
-37.5°	454.1	273.5	146.6	66.8	31.8	16.7	8.5
-40°	451.2	273.6	145.6	65.0	31.7	16.6	8.5
-42.5°	443.5	270.9	144.3	63.2	31.5	16.5	8.5
-45°	431.2	265.3	142.9	62.1	31.1	16.3	8.5
-47.5°	414.2	256.9	140.0	60.1	30.6	16.2	8.5
-50°	398.4	245.7	135.6	59.5	29.9	16.0	8.5
-52.5°	379.5	231.8	129.8	58.9	29.1	15.7	8.5
-55°	356.8	219.9	122.5	57.6	28.1	15.5	8.5
-57.5°	330.4	206.8	113.8	55.5	27.0	15.2	8.5
-60°	301.5	191.6	104.1	52.9	25.8	14.9	8.5
-62.5°	277.1	174.5	97.1	49.6	24.9	14.5	8.5
-65°	250.0	155.5	89.0	45.7	23.8	14.1	8.5
-67.5°	220.5	137.4	80.0	41.3	22.7	13.8	8.5
-70°	188.8	120.5	69.9	36.4	21.6	13.3	8.5
-72.5°	160.5	102.3	59.1	33.2	20.4	12.9	8.5
-75°	131.3	82.9	47.5	30.4	19.1	12.5	8.5
-77.5°	100.6	62.5	40.9	27.4	17.7	12.0	8.5
-80°	68.7	49.4	35.4	24.3	16.4	11.5	8.5
-82.5°	53.3	40.3	29.6	21.1	15.0	11.0	8.5
-85°	39.9	31.1	23.7	17.8	13.5	10.6	8.5
-87.5°	26.4	21.7	17.7	14.5	12.1	10.1	8.5
-90°	8.5	8.5	8.5	8.5	8.5	8.5	8.5

(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

