

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: P731223 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-70-2S-HEG**

Issue Date: 11/16/2023

**Test Information**

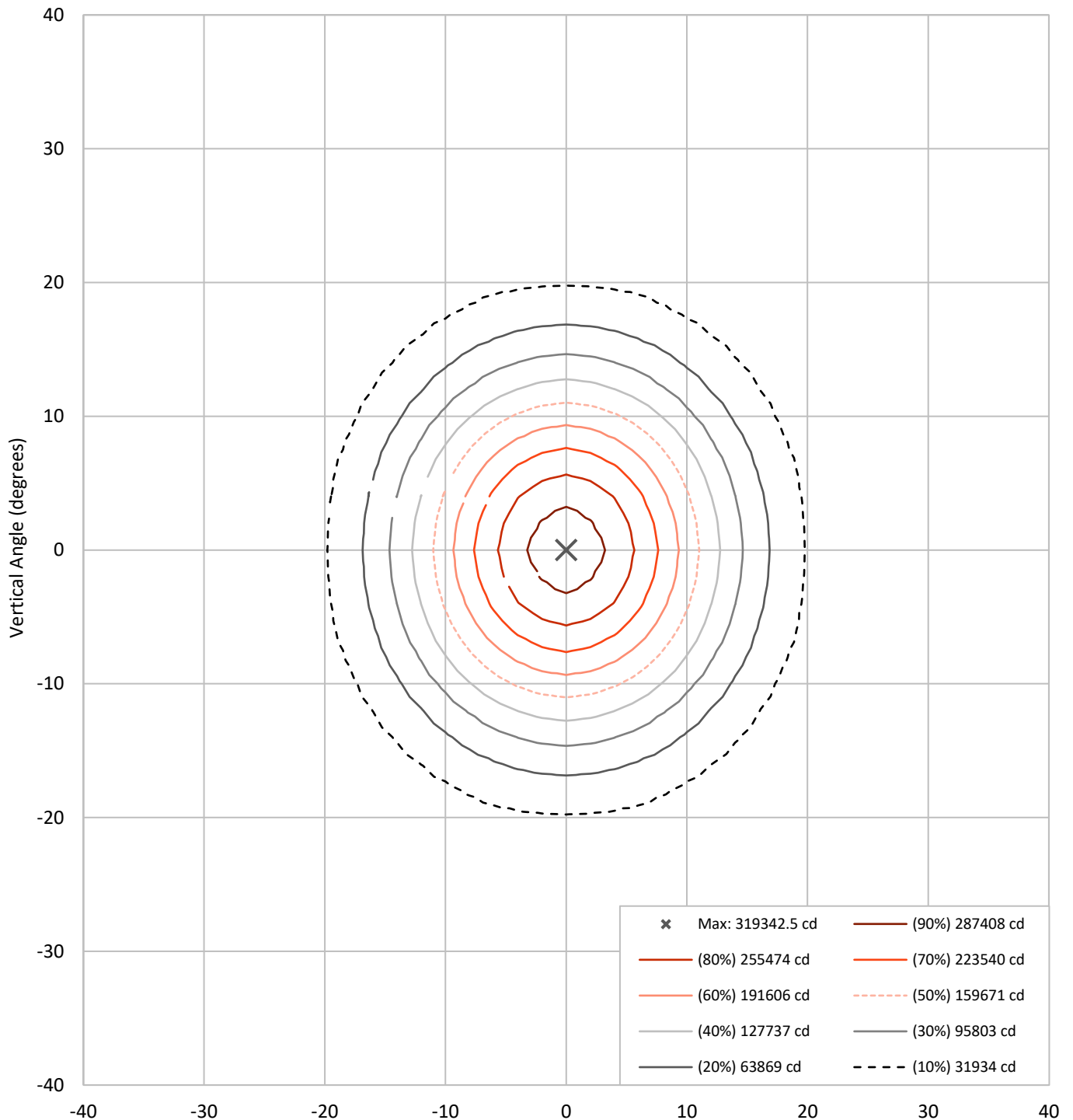
Test Method: LM-79-08  
Report Number: P731223 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320N-57-70-2S-HEG  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 5700K, 70 CRI LEDS AND 2S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	57523.7 lumens	Max Intensity:	319342.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	165.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	22°H x 22°V	Field Angle (10%):	39.6°H x 39.6°V
Beam Lumens:	25423.6 lumens	Field Lumens:	47217.6 lumens
Beam Efficiency:	44.2%	Field Efficiency:	82.1%
Input Watts (W):	348.5		
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





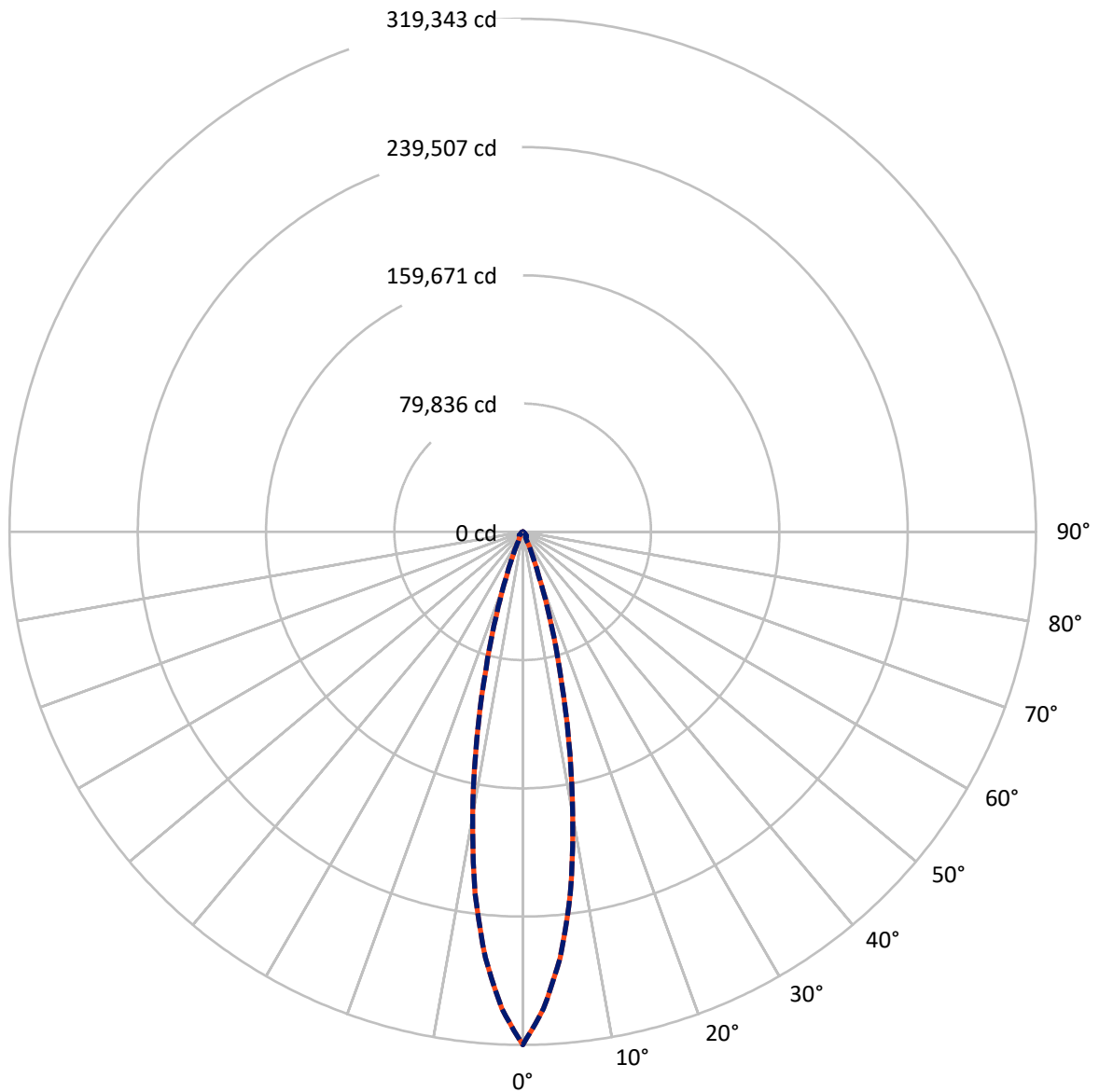
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### Lumen Table

90																
80	0.1	0.6		2.0		5.1		6.7		5.1		2.0		0.6	0.1	
70																
60	0.3	0.3	1.2	3.6	7.2	11.1	14.3	16.1	16.1	14.3	11.1	7.2	3.6	1.2	0.3	0.3
50		0.9	4.2	10.2	17.7	24.6	29.3	31.7	31.7	29.3	24.6	17.7	10.2	4.2	0.9	
40	0.7	2.2	8.4	17.8	27.1	43.9	67.1	80.4	80.4	67.1	43.9	27.1	17.8	8.4	2.2	0.7
30		3.8	12.5	23.4	51.7	88.8	104.0	109.3	109.3	104.0	88.8	51.7	23.4	12.5	3.8	
20	1.5	5.3	15.7	34.6	80.3	99.9	136.6	278.9	278.9	136.6	99.9	80.3	34.6	15.7	5.3	1.5
10		6.4	17.5	49.8	88.3	128.6	813.6	2410.8	2410.8	813.6	128.6	88.3	49.8	17.5	6.4	
0	1.9	7.0	18.4	57.7	89.9	257.0	2349.6	6607.7	6607.7	2349.6	257.0	89.9	57.7	18.4	7.0	1.9
-10		7.0	18.4	57.7	89.9	257.0	2349.6	6607.7	6607.7	2349.6	257.0	89.9	57.7	18.4	7.0	
-20	1.5	6.4	17.5	49.8	88.3	128.6	813.6	2410.8	2410.8	813.6	128.6	88.3	49.8	17.5	6.4	1.5
-30		5.3	15.7	34.6	80.3	99.9	136.6	278.9	278.9	136.6	99.9	80.3	34.6	15.7	5.3	
-40	0.7	3.8	12.5	23.4	51.7	88.8	104.0	109.3	109.3	104.0	88.8	51.7	23.4	12.5	3.8	0.7
-50		2.2	8.4	17.8	27.1	43.9	67.1	80.4	80.4	67.1	43.9	27.1	17.8	8.4	2.2	
-60	0.3	0.9	4.2	10.2	17.7	24.6	29.3	31.7	31.7	29.3	24.6	17.7	10.2	4.2	0.9	0.3
-70		0.3	1.2	3.6	7.2	11.1	14.3	16.1	16.1	14.3	11.1	7.2	3.6	1.2	0.3	
-80																
-90	0.1	0.6		2.0		5.1		6.7		5.1		2.0		0.6	0.1	

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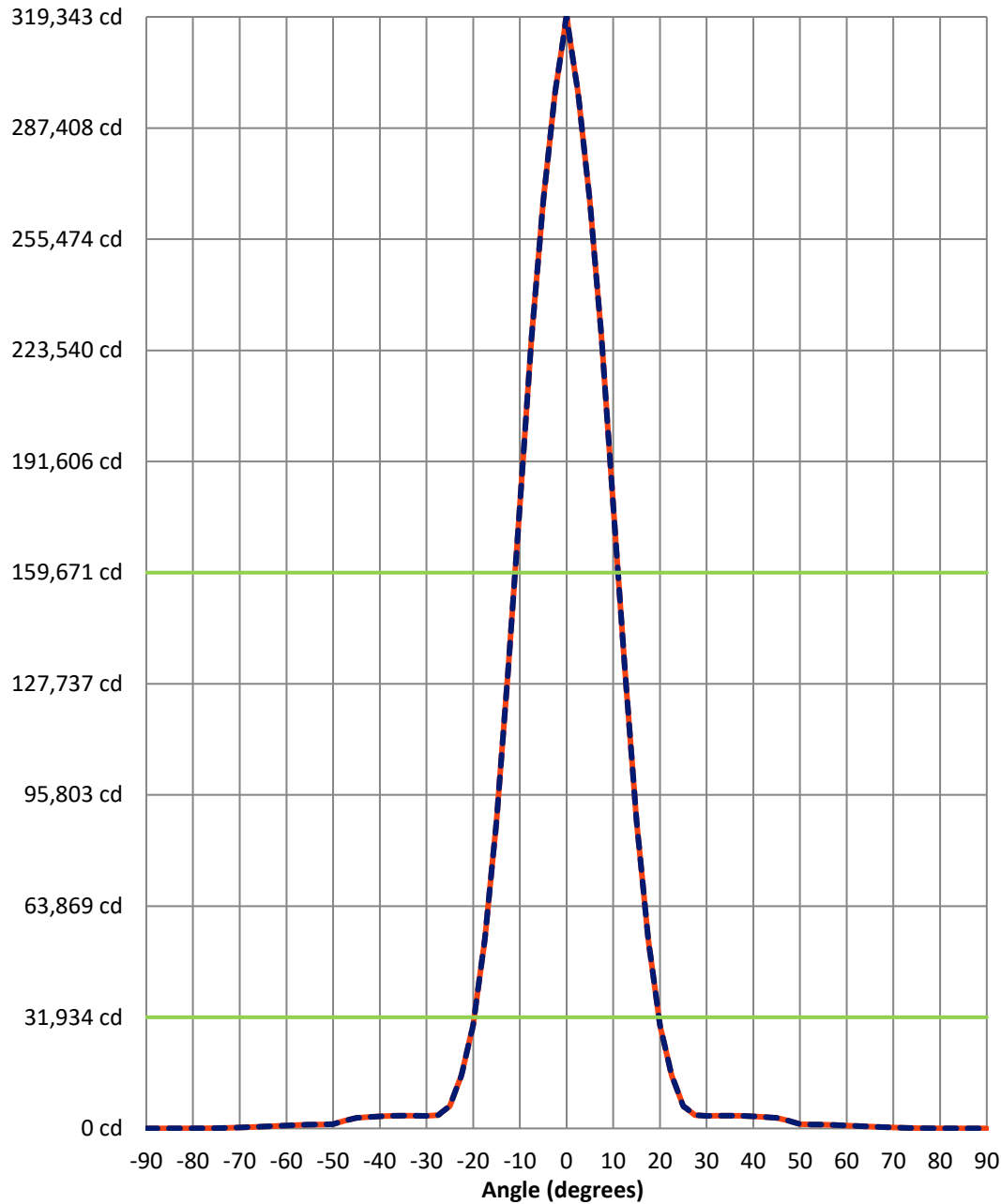
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
H Angle: 22°  
V Angle: 22°  
Lumens: 25423.6  
Efficiency: 44.2%

**Field:**  
H Angle: 39.6°  
V Angle: 39.6°  
Lumens: 47217.6  
Efficiency: 82.1%

**Spill:**  
Lumens: 10306.1  
Efficiency: 17.9%

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



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.3	0.5	0.8	1.0	1.3	1.6	1.8	2.1	2.3	2.5
85°	0.0	0.5	1.0	1.6	2.1	2.6	3.1	3.6	4.1	4.6	5.1
82.5°	0.0	0.8	1.6	2.3	3.1	3.9	4.6	5.4	6.1	6.4	6.8
80°	0.0	1.0	2.1	3.1	4.1	5.2	6.1	6.6	7.0	7.5	8.0
77.5°	0.0	1.3	2.6	3.9	5.2	6.2	6.8	7.4	8.0	8.6	9.3
75°	0.0	1.6	3.1	4.6	6.1	6.8	7.6	8.3	9.0	10.0	10.9
72.5°	0.0	1.8	3.6	5.4	6.6	7.4	8.3	9.2	10.3	11.5	12.6
70°	0.0	2.1	4.1	6.1	7.0	8.0	9.0	10.3	11.6	13.0	15.2
67.5°	0.0	2.3	4.6	6.4	7.5	8.6	10.0	11.5	13.0	15.5	18.0
65°	0.0	2.5	5.1	6.8	8.0	9.3	10.9	12.6	15.2	18.0	21.3
62.5°	0.0	2.8	5.5	7.1	8.4	10.1	11.9	14.2	17.3	20.7	25.9
60°	0.0	3.0	6.0	7.4	8.9	10.8	12.8	16.1	19.5	24.8	30.4
57.5°	0.0	3.2	6.2	7.8	9.5	11.6	14.3	17.9	22.7	28.8	42.0
55°	0.0	3.4	6.4	8.1	10.0	12.3	15.8	19.7	26.2	34.7	56.7
52.5°	0.0	3.7	6.6	8.4	10.6	13.1	17.3	22.5	29.5	47.6	71.0
50°	0.0	3.9	6.8	8.7	11.2	14.3	18.7	25.3	35.1	60.1	99.5
47.5°	0.0	4.1	7.0	9.0	11.7	15.4	20.2	28.1	45.8	72.2	128.7
45°	0.0	4.2	7.2	9.4	12.2	16.5	22.5	30.7	56.1	97.2	156.9
42.5°	0.0	4.4	7.4	9.7	12.7	17.6	24.7	36.8	66.1	121.6	189.8
40°	0.0	4.6	7.5	10.1	13.3	18.6	26.7	45.1	79.2	144.9	222.2
37.5°	0.0	4.8	7.7	10.4	14.1	19.6	28.7	53.0	98.8	168.6	253.1
35°	0.0	4.9	7.8	10.7	14.8	20.9	30.6	60.5	117.4	194.8	283.0
32.5°	0.0	5.1	8.0	11.0	15.5	22.4	33.6	67.5	134.9	219.6	312.2
30°	0.0	5.2	8.1	11.3	16.1	23.7	39.2	75.9	151.3	242.7	339.5
27.5°	0.0	5.3	8.2	11.5	16.7	25.0	44.4	89.1	168.0	264.3	364.9
25°	0.0	5.4	8.4	11.8	17.3	26.1	49.2	101.3	185.5	284.8	388.6
22.5°	0.0	5.5	8.5	12.0	17.7	27.2	53.5	112.5	201.5	304.0	415.2
20°	0.0	5.6	8.5	12.2	18.2	28.2	57.5	122.5	215.9	321.2	439.2
17.5°	0.0	5.7	8.6	12.3	18.6	29.0	61.0	131.4	228.7	336.5	460.6
15°	0.0	5.8	8.7	12.5	18.9	29.7	64.0	139.2	239.9	349.9	479.2
12.5°	0.0	5.9	8.8	12.6	19.2	30.4	66.6	145.8	249.4	361.3	495.1
10°	0.0	5.9	8.8	12.7	19.5	30.9	68.7	151.2	257.2	370.7	508.1
7.5°	0.0	5.9	8.9	12.8	19.7	31.3	70.4	155.4	263.3	378.0	518.3
5°	0.0	6.0	8.9	12.9	19.8	31.6	71.5	158.5	267.7	383.2	525.6
2.5°	0.0	6.0	8.9	12.9	19.9	31.7	72.3	160.3	270.3	386.4	530.0
0°	0.0	6.0	8.9	12.9	19.9	31.8	72.5	160.9	271.2	387.4	531.5
-2.5°	0.0	6.0	8.9	12.9	19.9	31.7	72.3	160.3	270.3	386.4	530.0
-5°	0.0	6.0	8.9	12.9	19.8	31.6	71.5	158.5	267.7	383.2	525.6
-7.5°	0.0	5.9	8.9	12.8	19.7	31.3	70.4	155.4	263.3	378.0	518.3
-10°	0.0	5.9	8.8	12.7	19.5	30.9	68.7	151.2	257.2	370.7	508.1
-12.5°	0.0	5.9	8.8	12.6	19.2	30.4	66.6	145.8	249.4	361.3	495.1
-15°	0.0	5.8	8.7	12.5	18.9	29.7	64.0	139.2	239.9	349.9	479.2
-17.5°	0.0	5.7	8.6	12.3	18.6	29.0	61.0	131.4	228.7	336.5	460.6
-20°	0.0	5.6	8.5	12.2	18.2	28.2	57.5	122.5	215.9	321.2	439.2



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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°	0.0	5.5	8.5	12.0	17.7	27.2	53.5	112.5	201.5	304.0	415.2
-25°	0.0	5.4	8.4	11.8	17.3	26.1	49.2	101.3	185.5	284.8	388.6
-27.5°	0.0	5.3	8.2	11.5	16.7	25.0	44.4	89.1	168.0	264.3	364.9
-30°	0.0	5.2	8.1	11.3	16.1	23.7	39.2	75.9	151.3	242.7	339.5
-32.5°	0.0	5.1	8.0	11.0	15.5	22.4	33.6	67.5	134.9	219.6	312.2
-35°	0.0	4.9	7.8	10.7	14.8	20.9	30.6	60.5	117.4	194.8	283.0
-37.5°	0.0	4.8	7.7	10.4	14.1	19.6	28.7	53.0	98.8	168.6	253.1
-40°	0.0	4.6	7.5	10.1	13.3	18.6	26.7	45.1	79.2	144.9	222.2
-42.5°	0.0	4.4	7.4	9.7	12.7	17.6	24.7	36.8	66.1	121.6	189.8
-45°	0.0	4.2	7.2	9.4	12.2	16.5	22.5	30.7	56.1	97.2	156.9
-47.5°	0.0	4.1	7.0	9.0	11.7	15.4	20.2	28.1	45.8	72.2	128.7
-50°	0.0	3.9	6.8	8.7	11.2	14.3	18.7	25.3	35.1	60.1	99.5
-52.5°	0.0	3.7	6.6	8.4	10.6	13.1	17.3	22.5	29.5	47.6	71.0
-55°	0.0	3.4	6.4	8.1	10.0	12.3	15.8	19.7	26.2	34.7	56.7
-57.5°	0.0	3.2	6.2	7.8	9.5	11.6	14.3	17.9	22.7	28.8	42.0
-60°	0.0	3.0	6.0	7.4	8.9	10.8	12.8	16.1	19.5	24.8	30.4
-62.5°	0.0	2.8	5.5	7.1	8.4	10.1	11.9	14.2	17.3	20.7	25.9
-65°	0.0	2.5	5.1	6.8	8.0	9.3	10.9	12.6	15.2	18.0	21.3
-67.5°	0.0	2.3	4.6	6.4	7.5	8.6	10.0	11.5	13.0	15.5	18.0
-70°	0.0	2.1	4.1	6.1	7.0	8.0	9.0	10.3	11.6	13.0	15.2
-72.5°	0.0	1.8	3.6	5.4	6.6	7.4	8.3	9.2	10.3	11.5	12.6
-75°	0.0	1.6	3.1	4.6	6.1	6.8	7.6	8.3	9.0	10.0	10.9
-77.5°	0.0	1.3	2.6	3.9	5.2	6.2	6.8	7.4	8.0	8.6	9.3
-80°	0.0	1.0	2.1	3.1	4.1	5.2	6.1	6.6	7.0	7.5	8.0
-82.5°	0.0	0.8	1.6	2.3	3.1	3.9	4.6	5.4	6.1	6.4	6.8
-85°	0.0	0.5	1.0	1.6	2.1	2.6	3.1	3.6	4.1	4.6	5.1
-87.5°	0.0	0.3	0.5	0.8	1.0	1.3	1.6	1.8	2.1	2.3	2.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	3.0	3.2	3.4	3.7	3.9	4.1	4.2	4.4	4.6	4.8
85°	5.5	6.0	6.2	6.4	6.6	6.8	7.0	7.2	7.4	7.5	7.7
82.5°	7.1	7.4	7.8	8.1	8.4	8.7	9.0	9.4	9.7	10.1	10.4
80°	8.4	8.9	9.5	10.0	10.6	11.2	11.7	12.2	12.7	13.3	14.1
77.5°	10.1	10.8	11.6	12.3	13.1	14.3	15.4	16.5	17.6	18.6	19.6
75°	11.9	12.8	14.3	15.8	17.3	18.7	20.2	22.5	24.7	26.7	28.7
72.5°	14.2	16.1	17.9	19.7	22.5	25.3	28.1	30.7	36.8	45.1	53.0
70°	17.3	19.5	22.7	26.2	29.5	35.1	45.8	56.1	66.1	79.2	98.8
67.5°	20.7	24.8	28.8	34.7	47.6	60.1	72.2	97.2	121.6	144.9	168.6
65°	25.9	30.4	42.0	56.7	71.0	99.5	128.7	156.9	189.8	222.2	253.1
62.5°	30.9	45.6	62.2	85.2	119.4	152.6	190.8	229.6	266.9	304.4	340.4
60°	45.6	64.0	93.1	131.4	170.6	215.9	259.8	304.0	347.0	388.6	437.6
57.5°	62.2	93.1	135.4	180.7	231.1	280.7	330.9	379.5	435.6	491.4	545.4
55°	85.2	131.4	180.7	236.2	291.5	347.2	404.6	469.7	532.5	595.4	655.6
52.5°	119.4	170.6	231.1	291.5	352.6	418.3	490.3	561.3	631.6	698.6	760.9
50°	152.6	215.9	280.7	347.2	418.3	497.2	575.8	653.5	726.9	796.6	866.5
47.5°	190.8	259.8	330.9	404.6	490.3	575.8	660.9	741.2	818.3	897.8	975.0
45°	229.6	304.0	379.5	469.7	561.3	653.5	741.2	825.5	913.6	993.4	1050.9
42.5°	266.9	347.0	435.6	532.5	631.6	726.9	818.3	913.6	999.0	1062.3	1098.9
40°	304.4	388.6	491.4	595.4	698.6	796.6	897.8	993.4	1062.3	1100.7	1119.7
37.5°	340.4	437.6	545.4	655.6	760.9	866.5	975.0	1050.9	1098.9	1119.7	1191.8
35°	374.6	484.1	598.2	711.7	820.4	935.4	1028.2	1093.8	1116.2	1185.2	1448.6
32.5°	411.6	528.1	648.3	763.9	880.8	994.7	1077.3	1109.3	1165.5	1335.9	2026.5
30°	449.1	571.0	694.8	813.1	938.1	1037.9	1099.1	1133.0	1223.7	1854.1	2512.0
27.5°	484.1	611.2	737.0	861.6	988.4	1078.5	1111.9	1184.2	1570.6	2321.6	2937.1
25°	516.5	648.3	776.0	907.4	1023.2	1096.8	1132.7	1232.0	1998.9	2694.9	3117.9
22.5°	546.6	682.2	811.8	949.5	1055.2	1107.0	1173.6	1550.0	2363.3	3029.8	3228.6
20°	574.4	711.7	845.6	985.5	1084.2	1116.3	1210.8	1885.7	2657.7	3124.3	3319.5
17.5°	599.2	738.0	876.7	1009.2	1095.1	1135.2	1284.1	2187.2	2922.7	3209.6	3396.7
15°	620.8	760.9	903.9	1030.1	1101.7	1162.2	1528.8	2409.9	3064.1	3281.5	3464.7
12.5°	639.2	780.5	927.1	1047.8	1107.4	1185.4	1738.5	2595.0	3124.0	3335.9	3512.9
10°	654.4	796.6	946.2	1062.5	1112.1	1204.4	1911.8	2748.3	3173.6	3381.1	3553.0
7.5°	666.2	809.2	961.2	1074.0	1115.8	1219.4	2047.9	2868.7	3212.6	3416.7	3584.7
5°	674.7	818.3	971.9	1082.2	1118.5	1230.2	2145.7	2955.3	3240.8	3442.4	3607.5
2.5°	679.8	823.7	978.3	1087.1	1120.1	1236.6	2204.6	3007.5	3257.7	3457.9	3621.4
0°	<b>681.5</b>	<b>825.5</b>	<b>980.5</b>	<b>1088.8</b>	<b>1120.6</b>	<b>1238.8</b>	<b>2224.3</b>	<b>3025.0</b>	<b>3263.4</b>	<b>3463.1</b>	<b>3626.0</b>
-2.5°	679.8	823.7	978.3	1087.1	1120.1	1236.6	2204.6	3007.5	3257.7	3457.9	3621.4
-5°	674.7	818.3	971.9	1082.2	1118.5	1230.2	2145.7	2955.3	3240.8	3442.4	3607.5
-7.5°	666.2	809.2	961.2	1074.0	1115.8	1219.4	2047.9	2868.7	3212.6	3416.7	3584.7
-10°	654.4	796.6	946.2	1062.5	1112.1	1204.4	1911.8	2748.3	3173.6	3381.1	3553.0
-12.5°	639.2	780.5	927.1	1047.8	1107.4	1185.4	1738.5	2595.0	3124.0	3335.9	3512.9
-15°	620.8	760.9	903.9	1030.1	1101.7	1162.2	1528.8	2409.9	3064.1	3281.5	3464.7
-17.5°	599.2	738.0	876.7	1009.2	1095.1	1135.2	1284.1	2187.2	2922.7	3209.6	3396.7
-20°	574.4	711.7	845.6	985.5	1084.2	1116.3	1210.8	1885.7	2657.7	3124.3	3319.5



REPORT NUMBER: P731223 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	546.6	682.2	811.8	949.5	1055.2	1107.0	1173.6	1550.0	2363.3	3029.8	3228.6
-25°	516.5	648.3	776.0	907.4	1023.2	1096.8	1132.7	1232.0	1998.9	2694.9	3117.9
-27.5°	484.1	611.2	737.0	861.6	988.4	1078.5	1111.9	1184.2	1570.6	2321.6	2937.1
-30°	449.1	571.0	694.8	813.1	938.1	1037.9	1099.1	1133.0	1223.7	1854.1	2512.0
-32.5°	411.6	528.1	648.3	763.9	880.8	994.7	1077.3	1109.3	1165.5	1335.9	2026.5
-35°	374.6	484.1	598.2	711.7	820.4	935.4	1028.2	1093.8	1116.2	1185.2	1448.6
-37.5°	340.4	437.6	545.4	655.6	760.9	866.5	975.0	1050.9	1098.9	1119.7	1191.8
-40°	304.4	388.6	491.4	595.4	698.6	796.6	897.8	993.4	1062.3	1100.7	1119.7
-42.5°	266.9	347.0	435.6	532.5	631.6	726.9	818.3	913.6	999.0	1062.3	1098.9
-45°	229.6	304.0	379.5	469.7	561.3	653.5	741.2	825.5	913.6	993.4	1050.9
-47.5°	190.8	259.8	330.9	404.6	490.3	575.8	660.9	741.2	818.3	897.8	975.0
-50°	152.6	215.9	280.7	347.2	418.3	497.2	575.8	653.5	726.9	796.6	866.5
-52.5°	119.4	170.6	231.1	291.5	352.6	418.3	490.3	561.3	631.6	698.6	760.9
-55°	85.2	131.4	180.7	236.2	291.5	347.2	404.6	469.7	532.5	595.4	655.6
-57.5°	62.2	93.1	135.4	180.7	231.1	280.7	330.9	379.5	435.6	491.4	545.4
-60°	45.6	64.0	93.1	131.4	170.6	215.9	259.8	304.0	347.0	388.6	437.6
-62.5°	30.9	45.6	62.2	85.2	119.4	152.6	190.8	229.6	266.9	304.4	340.4
-65°	25.9	30.4	42.0	56.7	71.0	99.5	128.7	156.9	189.8	222.2	253.1
-67.5°	20.7	24.8	28.8	34.7	47.6	60.1	72.2	97.2	121.6	144.9	168.6
-70°	17.3	19.5	22.7	26.2	29.5	35.1	45.8	56.1	66.1	79.2	98.8
-72.5°	14.2	16.1	17.9	19.7	22.5	25.3	28.1	30.7	36.8	45.1	53.0
-75°	11.9	12.8	14.3	15.8	17.3	18.7	20.2	22.5	24.7	26.7	28.7
-77.5°	10.1	10.8	11.6	12.3	13.1	14.3	15.4	16.5	17.6	18.6	19.6
-80°	8.4	8.9	9.5	10.0	10.6	11.2	11.7	12.2	12.7	13.3	14.1
-82.5°	7.1	7.4	7.8	8.1	8.4	8.7	9.0	9.4	9.7	10.1	10.4
-85°	5.5	6.0	6.2	6.4	6.6	6.8	7.0	7.2	7.4	7.5	7.7
-87.5°	2.8	3.0	3.2	3.4	3.7	3.9	4.1	4.2	4.4	4.6	4.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: EPH-LS-08-0320N-57-70-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	5.9
85°	7.8	8.0	8.1	8.2	8.4	8.5	8.5	8.6	8.7	8.8	8.8
82.5°	10.7	11.0	11.3	11.5	11.8	12.0	12.2	12.3	12.5	12.6	12.7
80°	14.8	15.5	16.1	16.7	17.3	17.7	18.2	18.6	18.9	19.2	19.5
77.5°	20.9	22.4	23.7	25.0	26.1	27.2	28.2	29.0	29.7	30.4	30.9
75°	30.6	33.6	39.2	44.4	49.2	53.5	57.5	61.0	64.0	66.6	68.7
72.5°	60.5	67.5	75.9	89.1	101.3	112.5	122.5	131.4	139.2	145.8	151.2
70°	117.4	134.9	151.3	168.0	185.5	201.5	215.9	228.7	239.9	249.4	257.2
67.5°	194.8	219.6	242.7	264.3	284.8	304.0	321.2	336.5	349.9	361.3	370.7
65°	283.0	312.2	339.5	364.9	388.6	415.2	439.2	460.6	479.2	495.1	508.1
62.5°	374.6	411.6	449.1	484.1	516.5	546.6	574.4	599.2	620.8	639.2	654.4
60°	484.1	528.1	571.0	611.2	648.3	682.2	711.7	738.0	760.9	780.5	796.6
57.5°	598.2	648.3	694.8	737.0	776.0	811.8	845.6	876.7	903.9	927.1	946.2
55°	711.7	763.9	813.1	861.6	907.4	949.5	985.5	1009.2	1030.1	1047.8	1062.5
52.5°	820.4	880.8	938.1	988.4	1023.2	1055.2	1084.2	1095.1	1101.7	1107.4	1112.1
50°	935.4	994.7	1037.9	1078.5	1096.8	1107.0	1116.3	1135.2	1162.2	1185.4	1204.4
47.5°	1028.2	1077.3	1099.1	1111.9	1132.7	1173.6	1210.8	1284.1	1528.8	1738.5	1911.8
45°	1093.8	1109.3	1133.0	1184.2	1232.0	1550.0	1885.7	2187.2	2409.9	2595.0	2748.3
42.5°	1116.2	1165.5	1223.7	1570.6	1998.9	2363.3	2657.7	2922.7	3064.1	3124.0	3173.6
40°	1185.2	1335.9	1854.1	2321.6	2694.9	3029.8	3124.3	3209.6	3281.5	3335.9	3381.1
37.5°	1448.6	2026.5	2512.0	2937.1	3117.9	3228.6	3319.5	3396.7	3464.7	3512.9	3553.0
35°	2084.4	2608.2	3042.8	3177.8	3298.3	3397.8	3484.7	3552.6	3613.1	3633.9	3642.7
32.5°	2608.2	3057.6	3208.1	3337.4	3451.2	3540.4	3620.9	3639.8	3652.9	3658.1	3656.9
30°	3042.8	3208.1	3350.5	3475.5	3574.5	3634.4	3651.8	3657.7	3656.0	3649.5	3630.8
27.5°	3177.8	3337.4	3475.5	3586.0	3639.2	3658.7	3656.5	3648.4	3620.6	3596.3	3677.6
25°	3298.3	3451.2	3574.5	3639.2	3658.4	3655.8	3633.9	3600.7	3698.5	3804.4	4556.0
22.5°	3397.8	3540.4	3634.4	3658.7	3655.8	3629.0	3619.2	3762.2	4537.5	5838.8	8164.9
20°	3484.7	3620.9	3651.8	3656.5	3633.9	3619.2	3783.8	5047.0	7106.3	11958.0	16663.2
17.5°	3552.6	3639.8	3657.7	3648.4	3600.7	3762.2	5047.0	8033.6	13924.5	21730.0	29317.9
15°	3613.1	3652.9	3656.0	3620.6	3698.5	4537.5	7106.3	13924.5	23467.9	35341.7	49796.8
12.5°	3633.9	3658.1	3649.5	3596.3	3804.4	5838.8	11958.0	21730.0	35341.7	53307.6	75307.5
10°	3642.7	3656.9	3630.8	3677.6	4556.0	8164.9	16663.2	29317.9	49796.8	75307.5	102847.9
7.5°	3649.7	3656.0	3615.9	3743.0	5366.8	11223.2	22223.9	39671.9	64793.3	95688.2	132243.9
5°	3654.7	3655.3	3605.0	3790.8	5961.1	13477.9	26355.2	47682.8	77544.7	114444.1	157075.2
2.5°	3657.8	3654.9	3598.4	3819.8	6324.2	14861.1	28904.5	52666.6	85573.4	127256.6	173266.0
0°	3658.8	3654.8	3596.2	3829.6	6446.3	15327.5	29766.8	54359.9	88319.9	131814.8	178943.6
-2.5°	3657.8	3654.9	3598.4	3819.8	6324.2	14861.1	28904.5	52666.6	85573.4	127256.6	173266.0
-5°	3654.7	3655.3	3605.0	3790.8	5961.1	13477.9	26355.2	47682.8	77544.7	114444.1	157075.2
-7.5°	3649.7	3656.0	3615.9	3743.0	5366.8	11223.2	22223.9	39671.9	64793.3	95688.2	132243.9
-10°	3642.7	3656.9	3630.8	3677.6	4556.0	8164.9	16663.2	29317.9	49796.8	75307.5	102847.9
-12.5°	3633.9	3658.1	3649.5	3596.3	3804.4	5838.8	11958.0	21730.0	35341.7	53307.6	75307.5
-15°	3613.1	3652.9	3656.0	3620.6	3698.5	4537.5	7106.3	13924.5	23467.9	35341.7	49796.8
-17.5°	3552.6	3639.8	3657.7	3648.4	3600.7	3762.2	5047.0	8033.6	13924.5	21730.0	29317.9
-20°	3484.7	3620.9	3651.8	3656.5	3633.9	3619.2	3783.8	5047.0	7106.3	11958.0	16663.2



REPORT NUMBER: P731223 (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°	3397.8	3540.4	3634.4	3658.7	3655.8	3629.0	3619.2	3762.2	4537.5	5838.8	8164.9
-25°	3298.3	3451.2	3574.5	3639.2	3658.4	3655.8	3633.9	3600.7	3698.5	3804.4	4556.0
-27.5°	3177.8	3337.4	3475.5	3586.0	3639.2	3658.7	3656.5	3648.4	3620.6	3596.3	3677.6
-30°	3042.8	3208.1	3350.5	3475.5	3574.5	3634.4	3651.8	3657.7	3656.0	3649.5	3630.8
-32.5°	2608.2	3057.6	3208.1	3337.4	3451.2	3540.4	3620.9	3639.8	3652.9	3658.1	3656.9
-35°	2084.4	2608.2	3042.8	3177.8	3298.3	3397.8	3484.7	3552.6	3613.1	3633.9	3642.7
-37.5°	1448.6	2026.5	2512.0	2937.1	3117.9	3228.6	3319.5	3396.7	3464.7	3512.9	3553.0
-40°	1185.2	1335.9	1854.1	2321.6	2694.9	3029.8	3124.3	3209.6	3281.5	3335.9	3381.1
-42.5°	1116.2	1165.5	1223.7	1570.6	1998.9	2363.3	2657.7	2922.7	3064.1	3124.0	3173.6
-45°	1093.8	1109.3	1133.0	1184.2	1232.0	1550.0	1885.7	2187.2	2409.9	2595.0	2748.3
-47.5°	1028.2	1077.3	1099.1	1111.9	1132.7	1173.6	1210.8	1284.1	1528.8	1738.5	1911.8
-50°	935.4	994.7	1037.9	1078.5	1096.8	1107.0	1116.3	1135.2	1162.2	1185.4	1204.4
-52.5°	820.4	880.8	938.1	988.4	1023.2	1055.2	1084.2	1095.1	1101.7	1107.4	1112.1
-55°	711.7	763.9	813.1	861.6	907.4	949.5	985.5	1009.2	1030.1	1047.8	1062.5
-57.5°	598.2	648.3	694.8	737.0	776.0	811.8	845.6	876.7	903.9	927.1	946.2
-60°	484.1	528.1	571.0	611.2	648.3	682.2	711.7	738.0	760.9	780.5	796.6
-62.5°	374.6	411.6	449.1	484.1	516.5	546.6	574.4	599.2	620.8	639.2	654.4
-65°	283.0	312.2	339.5	364.9	388.6	415.2	439.2	460.6	479.2	495.1	508.1
-67.5°	194.8	219.6	242.7	264.3	284.8	304.0	321.2	336.5	349.9	361.3	370.7
-70°	117.4	134.9	151.3	168.0	185.5	201.5	215.9	228.7	239.9	249.4	257.2
-72.5°	60.5	67.5	75.9	89.1	101.3	112.5	122.5	131.4	139.2	145.8	151.2
-75°	30.6	33.6	39.2	44.4	49.2	53.5	57.5	61.0	64.0	66.6	68.7
-77.5°	20.9	22.4	23.7	25.0	26.1	27.2	28.2	29.0	29.7	30.4	30.9
-80°	14.8	15.5	16.1	16.7	17.3	17.7	18.2	18.6	18.9	19.2	19.5
-82.5°	10.7	11.0	11.3	11.5	11.8	12.0	12.2	12.3	12.5	12.6	12.7
-85°	7.8	8.0	8.1	8.2	8.4	8.5	8.5	8.6	8.7	8.8	8.8
-87.5°	4.9	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	5.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731223 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	6.0	6.0	6.0	6.0	6.0	5.9	5.9	5.9	5.8	5.7
85°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.8	8.8	8.7	8.6
82.5°	12.8	12.9	12.9	12.9	12.9	12.9	12.8	12.7	12.6	12.5	12.3
80°	19.7	19.8	19.9	19.9	19.9	19.8	19.7	19.5	19.2	18.9	18.6
77.5°	31.3	31.6	31.7	31.8	31.7	31.6	31.3	30.9	30.4	29.7	29.0
75°	70.4	71.5	72.3	72.5	72.3	71.5	70.4	68.7	66.6	64.0	61.0
72.5°	155.4	158.5	160.3	160.9	160.3	158.5	155.4	151.2	145.8	139.2	131.4
70°	263.3	267.7	270.3	271.2	270.3	267.7	263.3	257.2	249.4	239.9	228.7
67.5°	378.0	383.2	386.4	387.4	386.4	383.2	378.0	370.7	361.3	349.9	336.5
65°	518.3	525.6	530.0	531.5	530.0	525.6	518.3	508.1	495.1	479.2	460.6
62.5°	666.2	674.7	679.8	681.5	679.8	674.7	666.2	654.4	639.2	620.8	599.2
60°	809.2	818.3	823.7	825.5	823.7	818.3	809.2	796.6	780.5	760.9	738.0
57.5°	961.2	971.9	978.3	980.5	978.3	971.9	961.2	946.2	927.1	903.9	876.7
55°	1074.0	1082.2	1087.1	1088.8	1087.1	1082.2	1074.0	1062.5	1047.8	1030.1	1009.2
52.5°	1115.8	1118.5	1120.1	1120.6	1120.1	1118.5	1115.8	1112.1	1107.4	1101.7	1095.1
50°	1219.4	1230.2	1236.6	1238.8	1236.6	1230.2	1219.4	1204.4	1185.4	1162.2	1135.2
47.5°	2047.9	2145.7	2204.6	2224.3	2204.6	2145.7	2047.9	1911.8	1738.5	1528.8	1284.1
45°	2868.7	2955.3	3007.5	3025.0	3007.5	2955.3	2868.7	2748.3	2595.0	2409.9	2187.2
42.5°	3212.6	3240.8	3257.7	3263.4	3257.7	3240.8	3212.6	3173.6	3124.0	3064.1	2922.7
40°	3416.7	3442.4	3457.9	3463.1	3457.9	3442.4	3416.7	3381.1	3335.9	3281.5	3209.6
37.5°	3584.7	3607.5	3621.4	3626.0	3621.4	3607.5	3584.7	3553.0	3512.9	3464.7	3396.7
35°	3649.7	3654.7	3657.8	3658.8	3657.8	3654.7	3649.7	3642.7	3633.9	3613.1	3552.6
32.5°	3656.0	3655.3	3654.9	3654.8	3654.9	3655.3	3656.0	3656.9	3658.1	3652.9	3639.8
30°	3615.9	3605.0	3598.4	3596.2	3598.4	3605.0	3615.9	3630.8	3649.5	3656.0	3657.7
27.5°	3743.0	3790.8	3819.8	3829.6	3819.8	3790.8	3743.0	3677.6	3596.3	3620.6	3648.4
25°	5366.8	5961.1	6324.2	6446.3	6324.2	5961.1	5366.8	4556.0	3804.4	3698.5	3600.7
22.5°	11223.2	13477.9	14861.1	15327.5	14861.1	13477.9	11223.2	8164.9	5838.8	4537.5	3762.2
20°	22223.9	26355.2	28904.5	29766.8	28904.5	26355.2	22223.9	16663.2	11958.0	7106.3	5047.0
17.5°	39671.9	47682.8	52666.6	54359.9	52666.6	47682.8	39671.9	29317.9	21730.0	13924.5	8033.6
15°	64793.3	77544.7	85573.4	88319.9	85573.4	77544.7	64793.3	49796.8	35341.7	23467.9	13924.5
12.5°	95688.2	114444.1	127256.6	131814.8	127256.6	114444.1	95688.2	75307.5	53307.6	35341.7	21730.0
10°	132243.9	157075.2	173266.0	178943.6	173266.0	157075.2	132243.9	102847.9	75307.5	49796.8	29317.9
7.5°	167922.9	197403.3	219148.5	227018.6	219148.5	197403.3	167922.9	132243.9	95688.2	64793.3	39671.9
5°	197403.3	235473.8	258816.8	266195.6	258816.8	235473.8	197403.3	157075.2	114444.1	77544.7	47682.8
2.5°	219148.5	258816.8	284050.2	297134.1	284050.2	258816.8	219148.5	173266.0	127256.6	85573.4	52666.6
0°	227018.6	266195.6	297134.1	319342.5	297134.1	266195.6	227018.6	178943.6	131814.8	88319.9	54359.9
-2.5°	219148.5	258816.8	284050.2	297134.1	284050.2	258816.8	219148.5	173266.0	127256.6	85573.4	52666.6
-5°	197403.3	235473.8	258816.8	266195.6	258816.8	235473.8	197403.3	157075.2	114444.1	77544.7	47682.8
-7.5°	167922.9	197403.3	219148.5	227018.6	219148.5	197403.3	167922.9	132243.9	95688.2	64793.3	39671.9
-10°	132243.9	157075.2	173266.0	178943.6	173266.0	157075.2	132243.9	102847.9	75307.5	49796.8	29317.9
-12.5°	95688.2	114444.1	127256.6	131814.8	127256.6	114444.1	95688.2	75307.5	53307.6	35341.7	21730.0
-15°	64793.3	77544.7	85573.4	88319.9	85573.4	77544.7	64793.3	49796.8	35341.7	23467.9	13924.5
-17.5°	39671.9	47682.8	52666.6	54359.9	52666.6	47682.8	39671.9	29317.9	21730.0	13924.5	8033.6
-20°	22223.9	26355.2	28904.5	29766.8	28904.5	26355.2	22223.9	16663.2	11958.0	7106.3	5047.0



REPORT NUMBER: P731223 (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°	11223.2	13477.9	14861.1	15327.5	14861.1	13477.9	11223.2	8164.9	5838.8	4537.5	3762.2
-25°	5366.8	5961.1	6324.2	6446.3	6324.2	5961.1	5366.8	4556.0	3804.4	3698.5	3600.7
-27.5°	3743.0	3790.8	3819.8	3829.6	3819.8	3790.8	3743.0	3677.6	3596.3	3620.6	3648.4
-30°	3615.9	3605.0	3598.4	3596.2	3598.4	3605.0	3615.9	3630.8	3649.5	3656.0	3657.7
-32.5°	3656.0	3655.3	3654.9	3654.8	3654.9	3655.3	3656.0	3656.9	3658.1	3652.9	3639.8
-35°	3649.7	3654.7	3657.8	3658.8	3657.8	3654.7	3649.7	3642.7	3633.9	3613.1	3552.6
-37.5°	3584.7	3607.5	3621.4	3626.0	3621.4	3607.5	3584.7	3553.0	3512.9	3464.7	3396.7
-40°	3416.7	3442.4	3457.9	3463.1	3457.9	3442.4	3416.7	3381.1	3335.9	3281.5	3209.6
-42.5°	3212.6	3240.8	3257.7	3263.4	3257.7	3240.8	3212.6	3173.6	3124.0	3064.1	2922.7
-45°	2868.7	2955.3	3007.5	3025.0	3007.5	2955.3	2868.7	2748.3	2595.0	2409.9	2187.2
-47.5°	2047.9	2145.7	2204.6	2224.3	2204.6	2145.7	2047.9	1911.8	1738.5	1528.8	1284.1
-50°	1219.4	1230.2	1236.6	1238.8	1236.6	1230.2	1219.4	1204.4	1185.4	1162.2	1135.2
-52.5°	1115.8	1118.5	1120.1	1120.6	1120.1	1118.5	1115.8	1112.1	1107.4	1101.7	1095.1
-55°	1074.0	1082.2	1087.1	1088.8	1087.1	1082.2	1074.0	1062.5	1047.8	1030.1	1009.2
-57.5°	961.2	971.9	978.3	980.5	978.3	971.9	961.2	946.2	927.1	903.9	876.7
-60°	809.2	818.3	823.7	825.5	823.7	818.3	809.2	796.6	780.5	760.9	738.0
-62.5°	666.2	674.7	679.8	681.5	679.8	674.7	666.2	654.4	639.2	620.8	599.2
-65°	518.3	525.6	530.0	531.5	530.0	525.6	518.3	508.1	495.1	479.2	460.6
-67.5°	378.0	383.2	386.4	387.4	386.4	383.2	378.0	370.7	361.3	349.9	336.5
-70°	263.3	267.7	270.3	271.2	270.3	267.7	263.3	257.2	249.4	239.9	228.7
-72.5°	155.4	158.5	160.3	160.9	160.3	158.5	155.4	151.2	145.8	139.2	131.4
-75°	70.4	71.5	72.3	72.5	72.3	71.5	70.4	68.7	66.6	64.0	61.0
-77.5°	31.3	31.6	31.7	31.8	31.7	31.6	31.3	30.9	30.4	29.7	29.0
-80°	19.7	19.8	19.9	19.9	19.9	19.8	19.7	19.5	19.2	18.9	18.6
-82.5°	12.8	12.9	12.9	12.9	12.9	12.9	12.8	12.7	12.6	12.5	12.3
-85°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.8	8.8	8.7	8.6
-87.5°	5.9	6.0	6.0	6.0	6.0	6.0	5.9	5.9	5.9	5.8	5.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.6	5.5	5.4	5.3	5.2	5.1	4.9	4.8	4.6	4.4	4.2
85°	8.5	8.5	8.4	8.2	8.1	8.0	7.8	7.7	7.5	7.4	7.2
82.5°	12.2	12.0	11.8	11.5	11.3	11.0	10.7	10.4	10.1	9.7	9.4
80°	18.2	17.7	17.3	16.7	16.1	15.5	14.8	14.1	13.3	12.7	12.2
77.5°	28.2	27.2	26.1	25.0	23.7	22.4	20.9	19.6	18.6	17.6	16.5
75°	57.5	53.5	49.2	44.4	39.2	33.6	30.6	28.7	26.7	24.7	22.5
72.5°	122.5	112.5	101.3	89.1	75.9	67.5	60.5	53.0	45.1	36.8	30.7
70°	215.9	201.5	185.5	168.0	151.3	134.9	117.4	98.8	79.2	66.1	56.1
67.5°	321.2	304.0	284.8	264.3	242.7	219.6	194.8	168.6	144.9	121.6	97.2
65°	439.2	415.2	388.6	364.9	339.5	312.2	283.0	253.1	222.2	189.8	156.9
62.5°	574.4	546.6	516.5	484.1	449.1	411.6	374.6	340.4	304.4	266.9	229.6
60°	711.7	682.2	648.3	611.2	571.0	528.1	484.1	437.6	388.6	347.0	304.0
57.5°	845.6	811.8	776.0	737.0	694.8	648.3	598.2	545.4	491.4	435.6	379.5
55°	985.5	949.5	907.4	861.6	813.1	763.9	711.7	655.6	595.4	532.5	469.7
52.5°	1084.2	1055.2	1023.2	988.4	938.1	880.8	820.4	760.9	698.6	631.6	561.3
50°	1116.3	1107.0	1096.8	1078.5	1037.9	994.7	935.4	866.5	796.6	726.9	653.5
47.5°	1210.8	1173.6	1132.7	1111.9	1099.1	1077.3	1028.2	975.0	897.8	818.3	741.2
45°	1885.7	1550.0	1232.0	1184.2	1133.0	1109.3	1093.8	1050.9	993.4	913.6	825.5
42.5°	2657.7	2363.3	1998.9	1570.6	1223.7	1165.5	1116.2	1098.9	1062.3	999.0	913.6
40°	3124.3	3029.8	2694.9	2321.6	1854.1	1335.9	1185.2	1119.7	1100.7	1062.3	993.4
37.5°	3319.5	3228.6	3117.9	2937.1	2512.0	2026.5	1448.6	1191.8	1119.7	1098.9	1050.9
35°	3484.7	3397.8	3298.3	3177.8	3042.8	2608.2	2084.4	1448.6	1185.2	1116.2	1093.8
32.5°	3620.9	3540.4	3451.2	3337.4	3208.1	3057.6	2608.2	2026.5	1335.9	1165.5	1109.3
30°	3651.8	3634.4	3574.5	3475.5	3350.5	3208.1	3042.8	2512.0	1854.1	1223.7	1133.0
27.5°	3656.5	3658.7	3639.2	3586.0	3475.5	3337.4	3177.8	2937.1	2321.6	1570.6	1184.2
25°	3633.9	3655.8	3658.4	3639.2	3574.5	3451.2	3298.3	3117.9	2694.9	1998.9	1232.0
22.5°	3619.2	3629.0	3655.8	3658.7	3634.4	3540.4	3397.8	3228.6	3029.8	2363.3	1550.0
20°	3783.8	3619.2	3633.9	3656.5	3651.8	3620.9	3484.7	3319.5	3124.3	2657.7	1885.7
17.5°	5047.0	3762.2	3600.7	3648.4	3657.7	3639.8	3552.6	3396.7	3209.6	2922.7	2187.2
15°	7106.3	4537.5	3698.5	3620.6	3656.0	3652.9	3613.1	3464.7	3281.5	3064.1	2409.9
12.5°	11958.0	5838.8	3804.4	3596.3	3649.5	3658.1	3633.9	3512.9	3335.9	3124.0	2595.0
10°	16663.2	8164.9	4556.0	3677.6	3630.8	3656.9	3642.7	3553.0	3381.1	3173.6	2748.3
7.5°	22223.9	11223.2	5366.8	3743.0	3615.9	3656.0	3649.7	3584.7	3416.7	3212.6	2868.7
5°	26355.2	13477.9	5961.1	3790.8	3605.0	3655.3	3654.7	3607.5	3442.4	3240.8	2955.3
2.5°	28904.5	14861.1	6324.2	3819.8	3598.4	3654.9	3657.8	3621.4	3457.9	3257.7	3007.5
0°	29766.8	15327.5	6446.3	3829.6	3596.2	3654.8	3658.8	3626.0	3463.1	3263.4	3025.0
-2.5°	28904.5	14861.1	6324.2	3819.8	3598.4	3654.9	3657.8	3621.4	3457.9	3257.7	3007.5
-5°	26355.2	13477.9	5961.1	3790.8	3605.0	3655.3	3654.7	3607.5	3442.4	3240.8	2955.3
-7.5°	22223.9	11223.2	5366.8	3743.0	3615.9	3656.0	3649.7	3584.7	3416.7	3212.6	2868.7
-10°	16663.2	8164.9	4556.0	3677.6	3630.8	3656.9	3642.7	3553.0	3381.1	3173.6	2748.3
-12.5°	11958.0	5838.8	3804.4	3596.3	3649.5	3658.1	3633.9	3512.9	3335.9	3124.0	2595.0
-15°	7106.3	4537.5	3698.5	3620.6	3656.0	3652.9	3613.1	3464.7	3281.5	3064.1	2409.9
-17.5°	5047.0	3762.2	3600.7	3648.4	3657.7	3639.8	3552.6	3396.7	3209.6	2922.7	2187.2
-20°	3783.8	3619.2	3633.9	3656.5	3651.8	3620.9	3484.7	3319.5	3124.3	2657.7	1885.7





REPORT NUMBER: P731223 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	3619.2	3629.0	3655.8	3658.7	3634.4	3540.4	3397.8	3228.6	3029.8	2363.3	1550.0
-25°	3633.9	3655.8	3658.4	3639.2	3574.5	3451.2	3298.3	3117.9	2694.9	1998.9	1232.0
-27.5°	3656.5	3658.7	3639.2	3586.0	3475.5	3337.4	3177.8	2937.1	2321.6	1570.6	1184.2
-30°	3651.8	3634.4	3574.5	3475.5	3350.5	3208.1	3042.8	2512.0	1854.1	1223.7	1133.0
-32.5°	3620.9	3540.4	3451.2	3337.4	3208.1	3057.6	2608.2	2026.5	1335.9	1165.5	1109.3
-35°	3484.7	3397.8	3298.3	3177.8	3042.8	2608.2	2084.4	1448.6	1185.2	1116.2	1093.8
-37.5°	3319.5	3228.6	3117.9	2937.1	2512.0	2026.5	1448.6	1191.8	1119.7	1098.9	1050.9
-40°	3124.3	3029.8	2694.9	2321.6	1854.1	1335.9	1185.2	1119.7	1100.7	1062.3	993.4
-42.5°	2657.7	2363.3	1998.9	1570.6	1223.7	1165.5	1116.2	1098.9	1062.3	999.0	913.6
-45°	1885.7	1550.0	1232.0	1184.2	1133.0	1109.3	1093.8	1050.9	993.4	913.6	825.5
-47.5°	1210.8	1173.6	1132.7	1111.9	1099.1	1077.3	1028.2	975.0	897.8	818.3	741.2
-50°	1116.3	1107.0	1096.8	1078.5	1037.9	994.7	935.4	866.5	796.6	726.9	653.5
-52.5°	1084.2	1055.2	1023.2	988.4	938.1	880.8	820.4	760.9	698.6	631.6	561.3
-55°	985.5	949.5	907.4	861.6	813.1	763.9	711.7	655.6	595.4	532.5	469.7
-57.5°	845.6	811.8	776.0	737.0	694.8	648.3	598.2	545.4	491.4	435.6	379.5
-60°	711.7	682.2	648.3	611.2	571.0	528.1	484.1	437.6	388.6	347.0	304.0
-62.5°	574.4	546.6	516.5	484.1	449.1	411.6	374.6	340.4	304.4	266.9	229.6
-65°	439.2	415.2	388.6	364.9	339.5	312.2	283.0	253.1	222.2	189.8	156.9
-67.5°	321.2	304.0	284.8	264.3	242.7	219.6	194.8	168.6	144.9	121.6	97.2
-70°	215.9	201.5	185.5	168.0	151.3	134.9	117.4	98.8	79.2	66.1	56.1
-72.5°	122.5	112.5	101.3	89.1	75.9	67.5	60.5	53.0	45.1	36.8	30.7
-75°	57.5	53.5	49.2	44.4	39.2	33.6	30.6	28.7	26.7	24.7	22.5
-77.5°	28.2	27.2	26.1	25.0	23.7	22.4	20.9	19.6	18.6	17.6	16.5
-80°	18.2	17.7	17.3	16.7	16.1	15.5	14.8	14.1	13.3	12.7	12.2
-82.5°	12.2	12.0	11.8	11.5	11.3	11.0	10.7	10.4	10.1	9.7	9.4
-85°	8.5	8.5	8.4	8.2	8.1	8.0	7.8	7.7	7.5	7.4	7.2
-87.5°	5.6	5.5	5.4	5.3	5.2	5.1	4.9	4.8	4.6	4.4	4.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





REPORT NUMBER: P731223 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	3.9	3.7	3.4	3.2	3.0	2.8	2.5	2.3	2.1	1.8
85°	7.0	6.8	6.6	6.4	6.2	6.0	5.5	5.1	4.6	4.1	3.6
82.5°	9.0	8.7	8.4	8.1	7.8	7.4	7.1	6.8	6.4	6.1	5.4
80°	11.7	11.2	10.6	10.0	9.5	8.9	8.4	8.0	7.5	7.0	6.6
77.5°	15.4	14.3	13.1	12.3	11.6	10.8	10.1	9.3	8.6	8.0	7.4
75°	20.2	18.7	17.3	15.8	14.3	12.8	11.9	10.9	10.0	9.0	8.3
72.5°	28.1	25.3	22.5	19.7	17.9	16.1	14.2	12.6	11.5	10.3	9.2
70°	45.8	35.1	29.5	26.2	22.7	19.5	17.3	15.2	13.0	11.6	10.3
67.5°	72.2	60.1	47.6	34.7	28.8	24.8	20.7	18.0	15.5	13.0	11.5
65°	128.7	99.5	71.0	56.7	42.0	30.4	25.9	21.3	18.0	15.2	12.6
62.5°	190.8	152.6	119.4	85.2	62.2	45.6	30.9	25.9	20.7	17.3	14.2
60°	259.8	215.9	170.6	131.4	93.1	64.0	45.6	30.4	24.8	19.5	16.1
57.5°	330.9	280.7	231.1	180.7	135.4	93.1	62.2	42.0	28.8	22.7	17.9
55°	404.6	347.2	291.5	236.2	180.7	131.4	85.2	56.7	34.7	26.2	19.7
52.5°	490.3	418.3	352.6	291.5	231.1	170.6	119.4	71.0	47.6	29.5	22.5
50°	575.8	497.2	418.3	347.2	280.7	215.9	152.6	99.5	60.1	35.1	25.3
47.5°	660.9	575.8	490.3	404.6	330.9	259.8	190.8	128.7	72.2	45.8	28.1
45°	741.2	653.5	561.3	469.7	379.5	304.0	229.6	156.9	97.2	56.1	30.7
42.5°	818.3	726.9	631.6	532.5	435.6	347.0	266.9	189.8	121.6	66.1	36.8
40°	897.8	796.6	698.6	595.4	491.4	388.6	304.4	222.2	144.9	79.2	45.1
37.5°	975.0	866.5	760.9	655.6	545.4	437.6	340.4	253.1	168.6	98.8	53.0
35°	1028.2	935.4	820.4	711.7	598.2	484.1	374.6	283.0	194.8	117.4	60.5
32.5°	1077.3	994.7	880.8	763.9	648.3	528.1	411.6	312.2	219.6	134.9	67.5
30°	1099.1	1037.9	938.1	813.1	694.8	571.0	449.1	339.5	242.7	151.3	75.9
27.5°	1111.9	1078.5	988.4	861.6	737.0	611.2	484.1	364.9	264.3	168.0	89.1
25°	1132.7	1096.8	1023.2	907.4	776.0	648.3	516.5	388.6	284.8	185.5	101.3
22.5°	1173.6	1107.0	1055.2	949.5	811.8	682.2	546.6	415.2	304.0	201.5	112.5
20°	1210.8	1116.3	1084.2	985.5	845.6	711.7	574.4	439.2	321.2	215.9	122.5
17.5°	1284.1	1135.2	1095.1	1009.2	876.7	738.0	599.2	460.6	336.5	228.7	131.4
15°	1528.8	1162.2	1101.7	1030.1	903.9	760.9	620.8	479.2	349.9	239.9	139.2
12.5°	1738.5	1185.4	1107.4	1047.8	927.1	780.5	639.2	495.1	361.3	249.4	145.8
10°	1911.8	1204.4	1112.1	1062.5	946.2	796.6	654.4	508.1	370.7	257.2	151.2
7.5°	2047.9	1219.4	1115.8	1074.0	961.2	809.2	666.2	518.3	378.0	263.3	155.4
5°	2145.7	1230.2	1118.5	1082.2	971.9	818.3	674.7	525.6	383.2	267.7	158.5
2.5°	2204.6	1236.6	1120.1	1087.1	978.3	823.7	679.8	530.0	386.4	270.3	160.3
0°	2224.3	1238.8	1120.6	1088.8	980.5	825.5	681.5	531.5	387.4	271.2	160.9
-2.5°	2204.6	1236.6	1120.1	1087.1	978.3	823.7	679.8	530.0	386.4	270.3	160.3
-5°	2145.7	1230.2	1118.5	1082.2	971.9	818.3	674.7	525.6	383.2	267.7	158.5
-7.5°	2047.9	1219.4	1115.8	1074.0	961.2	809.2	666.2	518.3	378.0	263.3	155.4
-10°	1911.8	1204.4	1112.1	1062.5	946.2	796.6	654.4	508.1	370.7	257.2	151.2
-12.5°	1738.5	1185.4	1107.4	1047.8	927.1	780.5	639.2	495.1	361.3	249.4	145.8
-15°	1528.8	1162.2	1101.7	1030.1	903.9	760.9	620.8	479.2	349.9	239.9	139.2
-17.5°	1284.1	1135.2	1095.1	1009.2	876.7	738.0	599.2	460.6	336.5	228.7	131.4
-20°	1210.8	1116.3	1084.2	985.5	845.6	711.7	574.4	439.2	321.2	215.9	122.5



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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°	1173.6	1107.0	1055.2	949.5	811.8	682.2	546.6	415.2	304.0	201.5	112.5
-25°	1132.7	1096.8	1023.2	907.4	776.0	648.3	516.5	388.6	284.8	185.5	101.3
-27.5°	1111.9	1078.5	988.4	861.6	737.0	611.2	484.1	364.9	264.3	168.0	89.1
-30°	1099.1	1037.9	938.1	813.1	694.8	571.0	449.1	339.5	242.7	151.3	75.9
-32.5°	1077.3	994.7	880.8	763.9	648.3	528.1	411.6	312.2	219.6	134.9	67.5
-35°	1028.2	935.4	820.4	711.7	598.2	484.1	374.6	283.0	194.8	117.4	60.5
-37.5°	975.0	866.5	760.9	655.6	545.4	437.6	340.4	253.1	168.6	98.8	53.0
-40°	897.8	796.6	698.6	595.4	491.4	388.6	304.4	222.2	144.9	79.2	45.1
-42.5°	818.3	726.9	631.6	532.5	435.6	347.0	266.9	189.8	121.6	66.1	36.8
-45°	741.2	653.5	561.3	469.7	379.5	304.0	229.6	156.9	97.2	56.1	30.7
-47.5°	660.9	575.8	490.3	404.6	330.9	259.8	190.8	128.7	72.2	45.8	28.1
-50°	575.8	497.2	418.3	347.2	280.7	215.9	152.6	99.5	60.1	35.1	25.3
-52.5°	490.3	418.3	352.6	291.5	231.1	170.6	119.4	71.0	47.6	29.5	22.5
-55°	404.6	347.2	291.5	236.2	180.7	131.4	85.2	56.7	34.7	26.2	19.7
-57.5°	330.9	280.7	231.1	180.7	135.4	93.1	62.2	42.0	28.8	22.7	17.9
-60°	259.8	215.9	170.6	131.4	93.1	64.0	45.6	30.4	24.8	19.5	16.1
-62.5°	190.8	152.6	119.4	85.2	62.2	45.6	30.9	25.9	20.7	17.3	14.2
-65°	128.7	99.5	71.0	56.7	42.0	30.4	25.9	21.3	18.0	15.2	12.6
-67.5°	72.2	60.1	47.6	34.7	28.8	24.8	20.7	18.0	15.5	13.0	11.5
-70°	45.8	35.1	29.5	26.2	22.7	19.5	17.3	15.2	13.0	11.6	10.3
-72.5°	28.1	25.3	22.5	19.7	17.9	16.1	14.2	12.6	11.5	10.3	9.2
-75°	20.2	18.7	17.3	15.8	14.3	12.8	11.9	10.9	10.0	9.0	8.3
-77.5°	15.4	14.3	13.1	12.3	11.6	10.8	10.1	9.3	8.6	8.0	7.4
-80°	11.7	11.2	10.6	10.0	9.5	8.9	8.4	8.0	7.5	7.0	6.6
-82.5°	9.0	8.7	8.4	8.1	7.8	7.4	7.1	6.8	6.4	6.1	5.4
-85°	7.0	6.8	6.6	6.4	6.2	6.0	5.5	5.1	4.6	4.1	3.6
-87.5°	4.1	3.9	3.7	3.4	3.2	3.0	2.8	2.5	2.3	2.1	1.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	1.3	1.0	0.8	0.5	0.3	0.0
85°	3.1	2.6	2.1	1.6	1.0	0.5	0.0
82.5°	4.6	3.9	3.1	2.3	1.6	0.8	0.0
80°	6.1	5.2	4.1	3.1	2.1	1.0	0.0
77.5°	6.8	6.2	5.2	3.9	2.6	1.3	0.0
75°	7.6	6.8	6.1	4.6	3.1	1.6	0.0
72.5°	8.3	7.4	6.6	5.4	3.6	1.8	0.0
70°	9.0	8.0	7.0	6.1	4.1	2.1	0.0
67.5°	10.0	8.6	7.5	6.4	4.6	2.3	0.0
65°	10.9	9.3	8.0	6.8	5.1	2.5	0.0
62.5°	11.9	10.1	8.4	7.1	5.5	2.8	0.0
60°	12.8	10.8	8.9	7.4	6.0	3.0	0.0
57.5°	14.3	11.6	9.5	7.8	6.2	3.2	0.0
55°	15.8	12.3	10.0	8.1	6.4	3.4	0.0
52.5°	17.3	13.1	10.6	8.4	6.6	3.7	0.0
50°	18.7	14.3	11.2	8.7	6.8	3.9	0.0
47.5°	20.2	15.4	11.7	9.0	7.0	4.1	0.0
45°	22.5	16.5	12.2	9.4	7.2	4.2	0.0
42.5°	24.7	17.6	12.7	9.7	7.4	4.4	0.0
40°	26.7	18.6	13.3	10.1	7.5	4.6	0.0
37.5°	28.7	19.6	14.1	10.4	7.7	4.8	0.0
35°	30.6	20.9	14.8	10.7	7.8	4.9	0.0
32.5°	33.6	22.4	15.5	11.0	8.0	5.1	0.0
30°	39.2	23.7	16.1	11.3	8.1	5.2	0.0
27.5°	44.4	25.0	16.7	11.5	8.2	5.3	0.0
25°	49.2	26.1	17.3	11.8	8.4	5.4	0.0
22.5°	53.5	27.2	17.7	12.0	8.5	5.5	0.0
20°	57.5	28.2	18.2	12.2	8.5	5.6	0.0
17.5°	61.0	29.0	18.6	12.3	8.6	5.7	0.0
15°	64.0	29.7	18.9	12.5	8.7	5.8	0.0
12.5°	66.6	30.4	19.2	12.6	8.8	5.9	0.0
10°	68.7	30.9	19.5	12.7	8.8	5.9	0.0
7.5°	70.4	31.3	19.7	12.8	8.9	5.9	0.0
5°	71.5	31.6	19.8	12.9	8.9	6.0	0.0
2.5°	72.3	31.7	19.9	12.9	8.9	6.0	0.0
0°	72.5	31.8	19.9	12.9	8.9	6.0	0.0
-2.5°	72.3	31.7	19.9	12.9	8.9	6.0	0.0
-5°	71.5	31.6	19.8	12.9	8.9	6.0	0.0
-7.5°	70.4	31.3	19.7	12.8	8.9	5.9	0.0
-10°	68.7	30.9	19.5	12.7	8.8	5.9	0.0
-12.5°	66.6	30.4	19.2	12.6	8.8	5.9	0.0
-15°	64.0	29.7	18.9	12.5	8.7	5.8	0.0
-17.5°	61.0	29.0	18.6	12.3	8.6	5.7	0.0
-20°	57.5	28.2	18.2	12.2	8.5	5.6	0.0



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 CATALOG NUMBER: EPH-LS-08-0320N-57-70-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	53.5	27.2	17.7	12.0	8.5	5.5	0.0
-25°	49.2	26.1	17.3	11.8	8.4	5.4	0.0
-27.5°	44.4	25.0	16.7	11.5	8.2	5.3	0.0
-30°	39.2	23.7	16.1	11.3	8.1	5.2	0.0
-32.5°	33.6	22.4	15.5	11.0	8.0	5.1	0.0
-35°	30.6	20.9	14.8	10.7	7.8	4.9	0.0
-37.5°	28.7	19.6	14.1	10.4	7.7	4.8	0.0
-40°	26.7	18.6	13.3	10.1	7.5	4.6	0.0
-42.5°	24.7	17.6	12.7	9.7	7.4	4.4	0.0
-45°	22.5	16.5	12.2	9.4	7.2	4.2	0.0
-47.5°	20.2	15.4	11.7	9.0	7.0	4.1	0.0
-50°	18.7	14.3	11.2	8.7	6.8	3.9	0.0
-52.5°	17.3	13.1	10.6	8.4	6.6	3.7	0.0
-55°	15.8	12.3	10.0	8.1	6.4	3.4	0.0
-57.5°	14.3	11.6	9.5	7.8	6.2	3.2	0.0
-60°	12.8	10.8	8.9	7.4	6.0	3.0	0.0
-62.5°	11.9	10.1	8.4	7.1	5.5	2.8	0.0
-65°	10.9	9.3	8.0	6.8	5.1	2.5	0.0
-67.5°	10.0	8.6	7.5	6.4	4.6	2.3	0.0
-70°	9.0	8.0	7.0	6.1	4.1	2.1	0.0
-72.5°	8.3	7.4	6.6	5.4	3.6	1.8	0.0
-75°	7.6	6.8	6.1	4.6	3.1	1.6	0.0
-77.5°	6.8	6.2	5.2	3.9	2.6	1.3	0.0
-80°	6.1	5.2	4.1	3.1	2.1	1.0	0.0
-82.5°	4.6	3.9	3.1	2.3	1.6	0.8	0.0
-85°	3.1	2.6	2.1	1.6	1.0	0.5	0.0
-87.5°	1.6	1.3	1.0	0.8	0.5	0.3	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(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

