

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: P731433 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-80-2S-VHE**

Issue Date: 11/16/2023

**Test Information**

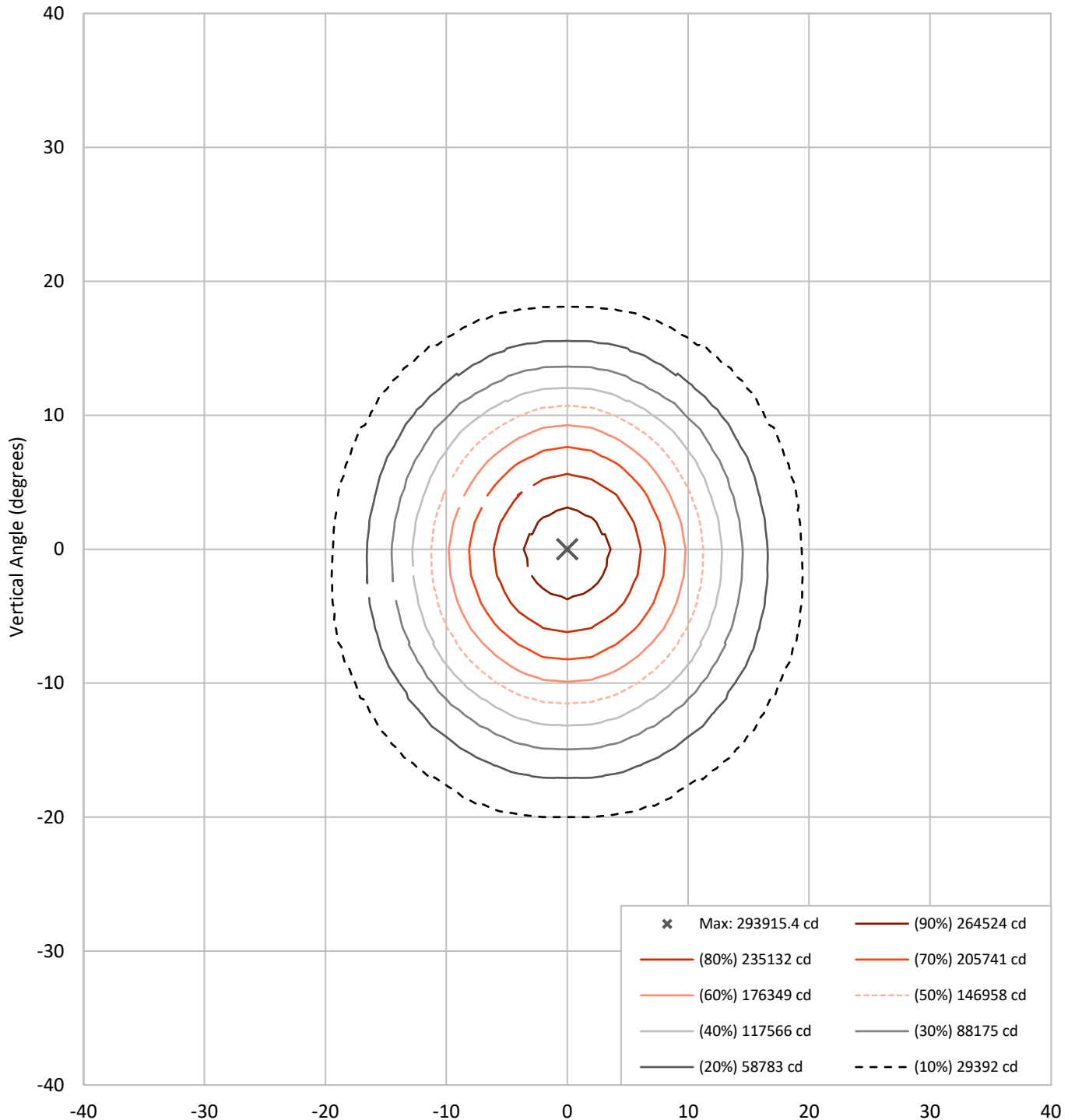
Test Method: LM-79-08  
Report Number: P731433 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320N-57-80-2S-VHE  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 5700K, 80 CRI LEDS AND 2S BEAM SHAPE WITH ANODIZED CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	51372.1 lumens	Max Intensity:	293915.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	147.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	22.5°H x 22.2°V	Field Angle (10%):	38.8°H x 38.1°V
Beam Lumens:	24005.3 lumens	Field Lumens:	42764.9 lumens
Beam Efficiency:	46.7%	Field Efficiency:	83.2%
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





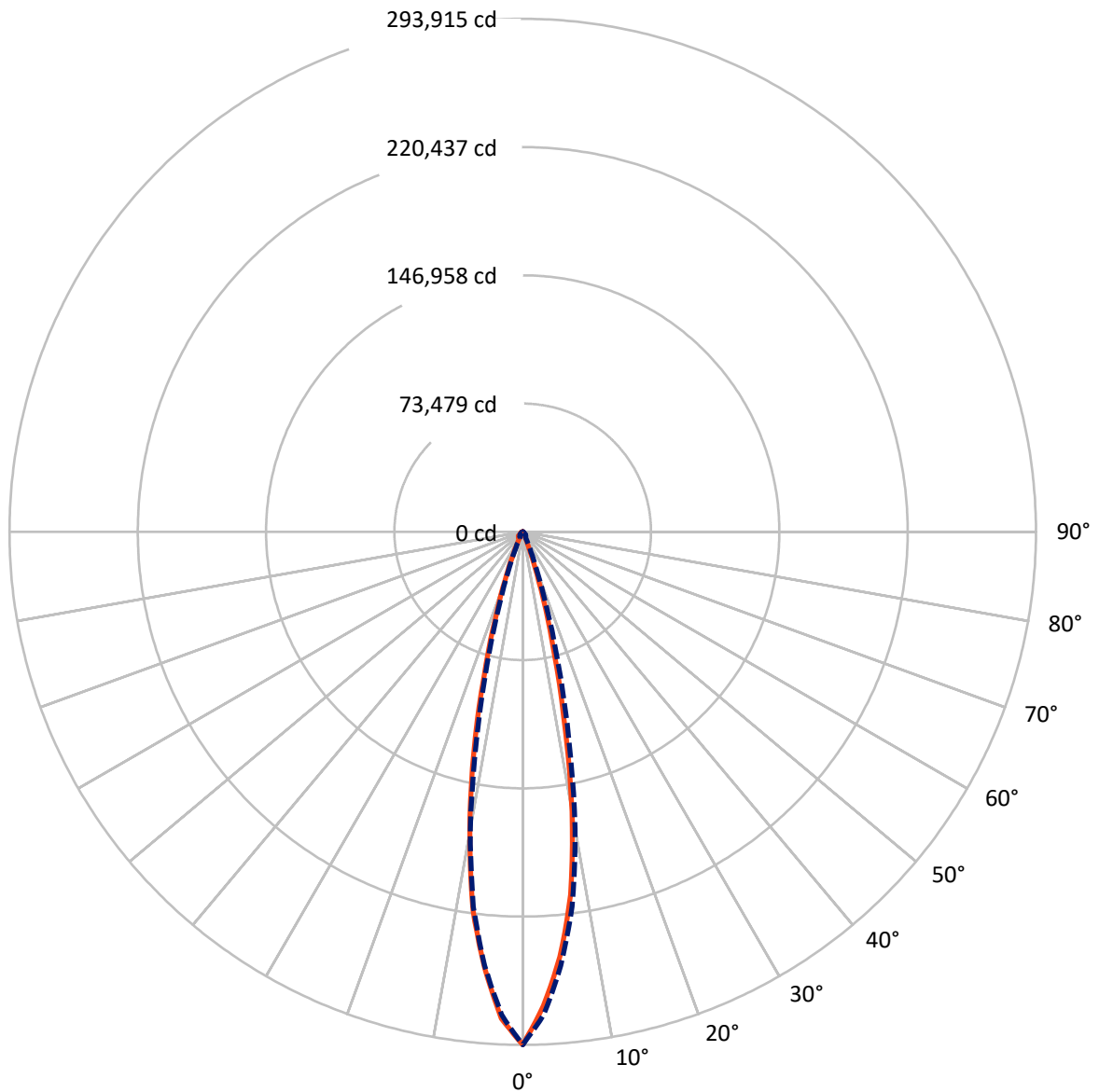
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### Lumen Table

90	0.1	0.4	0.8	1.1	1.3	1.1	0.8	0.4	0.1										
80	0.1	0.4	0.8	1.1	1.3	1.1	0.8	0.4	0.1										
70	0.1	0.1	0.1	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.1	0.1	0.1			
60		0.2	0.4	0.6	0.5	0.4	0.5	0.6	0.6	0.5	0.4	0.5	0.6	0.4	0.2				
50	0.4	0.6	1.5	3.1	5.4	8.8	13.6	16.0	16.0	13.6	8.8	5.4	3.1	1.5	0.6	0.4			
40		1.6	5.1	9.8	19.1	33.3	40.5	44.9	44.9	40.5	33.3	19.1	9.8	5.1	1.6				
30	1.0	2.7	8.4	17.9	43.6	50.8	70.0	128.0	128.0	70.0	50.8	43.6	17.9	8.4	2.7	1.0			
20		3.7	10.9	31.3	61.5	90.4	573.6	1850.2	1850.2	573.6	90.4	61.5	31.3	10.9	3.7				
10	1.5	4.4	12.6	40.9	70.5	202.2	2032.1	6109.0	6109.0	2032.1	202.2	70.5	40.9	12.6	4.4	1.5			
0		4.9	13.9	43.1	77.6	231.9	2213.1	6353.1	6353.1	2213.1	231.9	77.6	43.1	13.9	4.9				
-10	1.6	4.9	14.5	41.6	81.6	132.7	811.1	2376.1	2376.1	811.1	132.7	81.6	41.6	14.5	4.9	1.6			
-20		4.5	14.2	31.8	77.0	105.5	146.6	293.2	293.2	146.6	105.5	77.0	31.8	14.2	4.5				
-30	1.3	3.8	12.5	24.9	53.8	94.8	111.0	116.4	116.4	111.0	94.8	53.8	24.9	12.5	3.8	1.3			
-40		2.9	9.4	20.1	32.1	49.3	75.0	94.2	94.2	75.0	49.3	32.1	20.1	9.4	2.9				
-50	1.1	1.9	6.0	13.2	22.5	30.4	36.3	40.1	40.1	36.3	30.4	22.5	13.2	6.0	1.9	1.1			
-60		1.3	3.0	6.6	11.5	16.1	20.3	22.8	22.8	20.3	16.1	11.5	6.6	3.0	1.3				
-70	0.8	4.7	11.4	19.1	23.3	19.1	11.4	4.7	0.8							0.8			
-80		4.7	11.4	19.1	23.3	19.1	11.4	4.7	0.8										
-90	0.8	4.7	11.4	19.1	23.3	19.1	11.4	4.7	0.8										
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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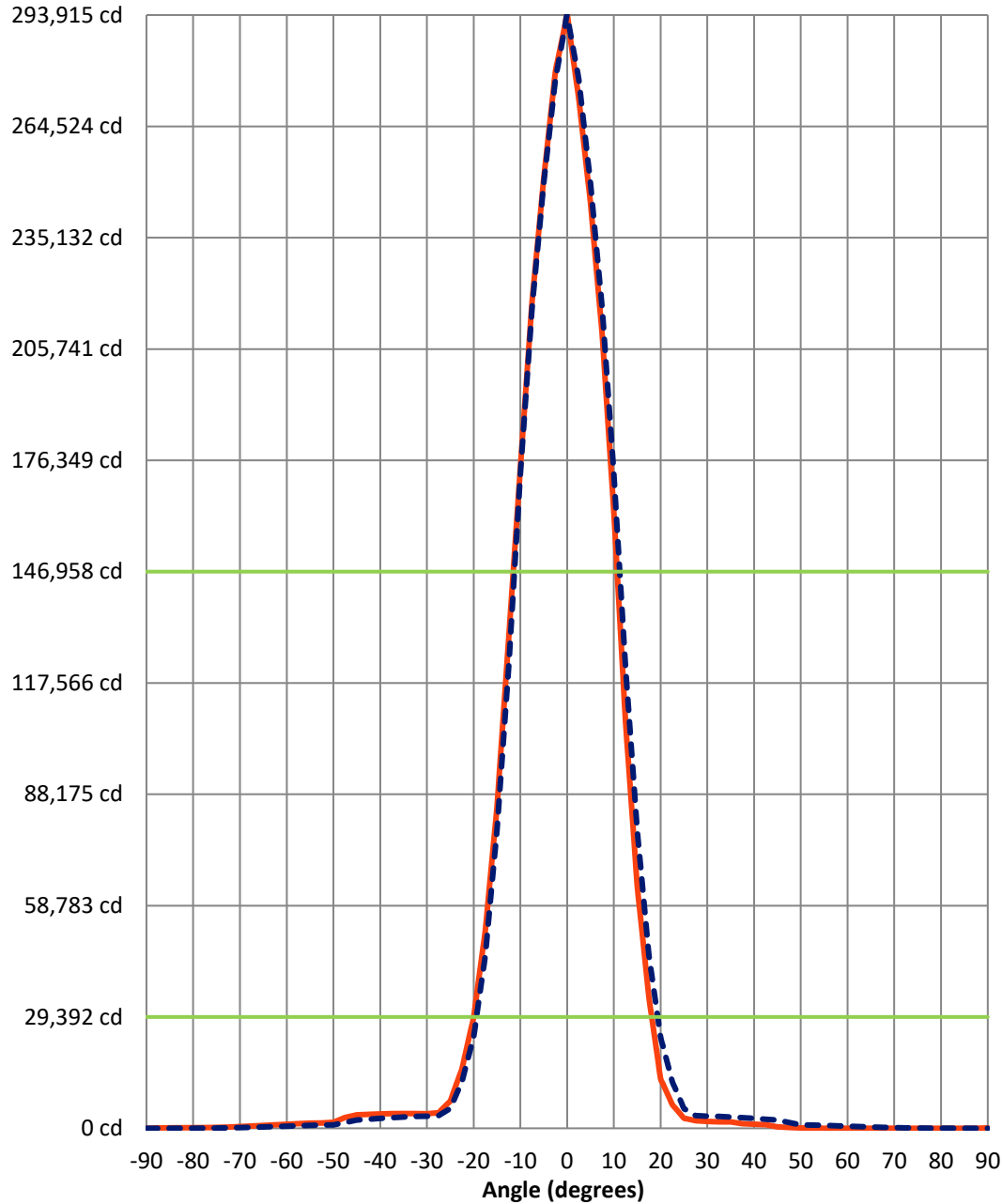
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
H Angle: 22.5°  
V Angle: 22.2°  
Lumens: 24005.3  
Efficiency: 46.7%

**Field:**  
H Angle: 38.8°  
V Angle: 38.1°  
Lumens: 42764.9  
Efficiency: 83.2%

**Spill:**  
Lumens: 8607.1  
Efficiency: 16.8%

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



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	3.0	6.3	9.6	16.5	23.4	29.4	35.4	39.9	44.4	48.0	51.6
87.5°	3.0	3.1	3.1	3.1	3.1	3.1	3.2	3.1	3.0	3.0	3.0
85°	3.0	3.2	3.2	3.2	3.2	3.3	3.3	3.2	3.0	3.0	3.0
82.5°	3.0	3.2	3.3	3.4	3.3	3.4	3.5	3.3	3.0	3.1	3.2
80°	3.0	3.3	3.4	3.5	3.4	3.5	3.6	3.5	3.5	3.5	3.4
77.5°	3.0	3.4	3.5	3.6	3.5	3.7	3.8	3.8	3.9	3.9	3.7
75°	3.0	3.5	3.6	3.7	3.7	3.9	4.0	4.0	4.2	4.1	4.0
72.5°	3.0	3.5	3.8	3.8	3.9	4.1	4.1	4.3	4.5	4.4	4.3
70°	3.0	3.6	3.9	4.0	4.1	4.3	4.3	4.6	4.7	4.7	4.6
67.5°	3.0	3.7	4.0	4.1	4.3	4.5	4.7	4.9	5.0	5.1	5.0
65°	3.0	3.8	4.1	4.3	4.5	4.8	5.1	5.2	5.6	5.5	5.5
62.5°	3.0	3.9	4.2	4.5	4.7	5.2	5.4	5.9	6.3	6.2	6.5
60°	3.0	3.9	4.4	4.6	4.9	5.5	5.8	6.7	7.1	7.4	7.5
57.5°	3.0	4.0	4.5	4.8	5.3	5.9	6.8	7.6	8.5	8.9	10.1
55°	3.0	4.1	4.7	4.9	5.8	6.3	7.9	8.7	10.3	11.1	13.5
52.5°	3.0	4.2	4.9	5.1	6.2	6.8	9.1	10.6	12.2	15.3	17.2
50°	3.0	4.2	5.1	5.2	6.7	8.1	10.4	12.7	14.9	19.9	24.7
47.5°	3.0	4.3	5.3	5.4	7.2	9.4	11.8	14.8	19.5	24.8	33.5
45°	3.0	4.4	5.6	5.8	7.8	10.7	13.7	17.0	24.6	33.7	43.2
42.5°	3.0	4.5	5.8	6.3	8.3	12.1	15.7	20.7	30.0	43.2	58.7
40°	3.0	4.5	6.1	6.9	9.2	13.6	17.8	25.7	37.0	53.4	76.3
37.5°	3.0	4.6	6.3	7.6	10.3	15.0	20.0	30.8	47.0	66.6	95.2
35°	3.0	4.7	6.6	8.3	11.4	16.8	22.3	36.0	57.4	84.2	116.3
32.5°	3.0	4.8	6.9	9.1	12.6	18.6	25.3	41.5	68.3	102.2	138.8
30°	3.0	4.8	7.2	9.9	13.7	20.4	29.7	47.8	79.5	120.3	160.1
27.5°	3.0	4.9	7.5	10.7	15.2	22.2	34.1	56.1	91.2	138.5	180.4
25°	3.0	4.9	7.8	11.5	16.6	24.1	38.5	64.0	103.3	155.8	199.6
22.5°	3.0	5.0	8.2	12.3	18.0	25.9	42.7	71.4	114.5	167.5	220.4
20°	3.0	5.1	8.5	13.1	19.4	27.8	46.8	78.4	124.7	178.3	236.6
17.5°	3.0	5.1	8.8	13.9	20.7	29.7	50.6	84.8	134.0	188.3	251.9
15°	3.0	5.2	9.1	14.8	21.9	31.5	53.9	90.4	142.2	197.3	266.7
12.5°	3.0	5.2	9.4	15.6	23.1	33.2	57.0	95.3	150.0	205.4	280.6
10°	3.0	5.3	9.7	16.4	24.3	34.8	59.8	99.5	157.5	215.5	295.0
7.5°	3.0	5.3	10.0	17.1	25.4	36.3	62.3	103.3	164.1	225.2	311.4
5°	3.0	5.3	10.3	17.8	26.4	37.7	64.4	106.4	170.0	234.1	326.4
2.5°	3.0	5.4	10.6	18.5	27.3	39.0	66.3	109.0	174.9	242.1	339.9
0°	3.0	5.4	10.8	19.2	28.2	40.2	67.8	111.0	178.8	248.9	351.5
-2.5°	3.0	5.6	11.4	20.0	29.4	41.9	70.0	115.0	184.2	256.1	357.6
-5°	3.0	5.9	11.9	20.8	30.6	43.4	71.8	118.4	188.5	261.9	361.7
-7.5°	3.0	6.1	12.4	21.6	31.7	44.8	73.3	121.0	191.7	266.4	363.9
-10°	3.0	6.3	12.9	22.3	32.7	46.1	74.4	122.9	193.5	269.3	364.3
-12.5°	3.0	6.5	13.4	22.9	33.6	47.2	75.2	123.8	194.1	270.5	363.8
-15°	3.0	6.7	13.8	23.5	34.4	48.2	75.5	123.8	192.7	268.3	361.3
-17.5°	3.0	6.9	14.2	24.0	35.1	49.1	75.5	122.5	189.1	264.6	356.0
-20°	3.0	7.1	14.6	24.5	35.7	49.7	75.2	120.2	184.4	259.2	347.6



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 CATALOG NUMBER: EPH-LS-08-0320N-57-80-2S-VHE

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	3.0	7.2	14.9	24.9	36.3	50.2	74.6	117.1	178.4	252.2	336.6
-25°	3.0	7.4	15.2	25.2	36.7	50.7	73.6	113.2	171.3	243.5	325.7
-27.5°	3.0	7.5	15.4	25.5	37.0	51.0	72.2	108.5	163.0	236.4	318.0
-30°	3.0	7.6	15.6	25.8	37.2	51.2	70.2	103.0	156.3	228.5	308.5
-32.5°	3.0	7.7	15.8	25.9	37.5	51.2	67.9	99.5	150.7	218.8	296.9
-35°	3.0	7.8	15.9	26.0	37.7	51.0	66.9	96.6	143.7	207.3	283.2
-37.5°	3.0	7.9	16.0	26.1	37.8	50.8	66.6	93.2	135.3	194.1	268.3
-40°	3.0	8.0	16.0	26.1	37.7	50.8	66.0	89.0	125.6	182.2	251.6
-42.5°	3.0	8.0	16.0	26.0	37.7	50.7	65.2	84.0	118.2	169.4	232.7
-45°	3.0	8.1	16.0	26.0	37.7	50.4	64.1	80.2	111.5	154.9	212.2
-47.5°	3.0	8.1	15.9	25.9	37.5	50.0	62.9	78.7	103.9	139.0	193.9
-50°	3.0	8.1	15.7	25.8	37.3	49.5	62.0	76.9	95.3	129.0	173.7
-52.5°	3.0	8.1	15.6	25.6	37.0	48.8	61.1	74.8	90.8	118.1	152.2
-55°	3.0	8.1	15.3	25.3	36.6	48.1	60.1	72.5	87.9	106.2	137.7
-57.5°	3.0	8.0	15.1	25.0	36.0	47.3	58.9	71.0	84.7	100.5	122.5
-60°	3.0	8.0	14.8	24.6	35.4	46.4	57.5	69.4	81.5	96.3	110.0
-62.5°	3.0	7.9	14.5	24.1	34.7	45.3	56.1	67.4	79.1	91.6	104.4
-65°	3.0	7.8	14.2	23.6	33.9	44.1	54.5	65.3	76.5	87.7	98.4
-67.5°	3.0	7.7	13.9	23.0	33.1	42.8	52.8	63.1	73.6	83.9	93.4
-70°	3.0	7.6	13.5	22.3	32.1	41.4	50.8	60.7	70.8	79.9	88.8
-72.5°	3.0	7.5	13.1	21.7	31.0	39.9	48.9	58.2	67.8	76.2	84.1
-75°	3.0	7.3	12.7	21.1	29.9	38.3	46.8	55.6	64.7	72.3	79.5
-77.5°	3.0	7.2	12.3	20.5	28.9	36.6	44.7	52.8	61.3	68.1	74.8
-80°	3.0	7.0	11.8	19.8	28.0	35.2	42.4	49.9	57.7	63.7	69.7
-82.5°	3.0	6.9	11.3	19.0	26.9	33.8	40.7	47.1	53.9	59.2	64.4
-85°	3.0	6.7	10.7	18.2	25.8	32.4	39.0	44.8	50.8	55.2	59.6
-87.5°	3.0	6.5	10.2	17.4	24.6	30.9	37.2	42.4	47.6	51.6	55.6
-90°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0





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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°	54.3	57.0	59.4	61.8	64.5	67.2	70.2	73.2	76.2	79.2	81.6
87.5°	2.8	2.7	2.7	2.7	2.6	2.4	2.4	2.4	2.1	1.8	1.8
85°	3.0	3.0	3.0	3.0	2.8	2.6	2.5	2.4	2.2	2.1	2.2
82.5°	3.2	3.3	3.2	3.0	3.0	3.0	2.7	2.5	2.5	2.6	2.5
80°	3.5	3.6	3.4	3.2	3.1	3.0	2.9	2.9	3.0	3.0	2.8
77.5°	3.7	3.6	3.5	3.5	3.4	3.2	3.2	3.3	3.3	3.1	3.0
75°	3.9	3.7	3.7	3.6	3.5	3.5	3.6	3.6	3.5	3.4	3.3
72.5°	4.1	4.0	3.9	3.7	3.7	3.7	3.6	3.6	4.2	5.0	5.6
70°	4.5	4.3	4.2	4.1	4.0	4.0	4.7	6.1	7.6	8.7	10.3
67.5°	4.8	4.8	4.6	4.6	4.9	5.6	6.7	10.6	14.6	16.1	16.8
65°	5.4	5.3	5.2	5.6	6.0	9.0	13.0	17.6	22.6	23.5	22.6
62.5°	6.0	6.7	6.5	7.5	10.3	14.0	19.0	24.3	30.0	28.7	23.9
60°	8.3	8.7	9.6	12.0	15.1	19.3	24.8	27.1	29.5	29.9	23.2
57.5°	11.2	12.4	14.6	17.1	21.2	23.5	24.4	24.4	27.8	28.0	21.3
55°	15.5	17.6	21.1	24.0	26.6	24.0	24.0	26.2	27.4	25.3	18.9
52.5°	22.3	24.6	29.9	32.1	30.7	28.6	28.0	29.9	28.8	25.7	21.9
50°	29.9	36.3	39.9	41.6	38.2	37.8	34.8	36.5	37.6	36.0	37.6
47.5°	42.1	49.9	52.8	55.4	52.6	55.5	52.6	61.2	61.4	82.5	85.0
45°	56.9	67.4	70.8	76.9	81.5	84.3	100.9	102.1	146.9	164.6	202.3
42.5°	74.3	88.0	99.9	102.9	131.2	144.7	168.3	211.6	253.0	288.7	308.8
40°	96.5	111.1	136.1	164.0	196.1	227.7	263.0	313.8	357.6	376.8	386.9
37.5°	120.9	149.0	182.3	228.9	276.6	313.0	354.8	402.6	431.7	441.9	444.2
35°	147.1	187.6	243.3	292.2	343.4	392.2	431.3	477.0	486.7	494.9	539.8
32.5°	179.0	226.1	291.8	346.8	398.6	454.5	494.0	521.1	536.6	566.3	712.9
30°	210.9	266.3	331.2	389.7	450.1	503.3	540.9	567.2	584.9	725.1	1029.5
27.5°	237.1	300.7	365.3	433.2	500.0	553.3	589.5	613.3	716.9	949.3	1418.1
25°	260.9	327.8	399.4	481.4	551.6	600.9	638.0	661.6	893.2	1367.8	1692.9
22.5°	283.3	354.1	438.0	532.2	602.9	644.8	680.4	808.7	1159.4	1791.8	1966.7
20°	305.1	385.6	479.9	575.3	650.9	682.0	719.4	973.5	1501.7	1955.1	2146.6
17.5°	327.7	417.9	519.4	608.3	676.0	715.2	775.2	1133.4	1790.8	2097.9	2236.5
15°	350.4	448.4	551.5	637.5	700.7	747.8	902.7	1362.6	1969.9	2255.0	2385.5
12.5°	372.6	475.1	575.7	662.4	726.6	778.6	1019.4	1599.4	2131.7	2409.2	2581.9
10°	393.9	498.2	596.4	686.6	752.0	808.6	1137.2	1831.0	2277.8	2509.8	2654.6
7.5°	412.6	517.0	614.3	709.7	775.6	837.9	1266.4	1984.6	2340.0	2573.6	2691.4
5°	428.5	531.9	632.4	735.5	800.2	865.0	1383.7	2085.9	2363.7	2613.1	2729.8
2.5°	441.9	543.8	648.1	759.7	824.4	887.9	1466.0	2150.1	2379.7	2628.2	2767.6
0°	452.9	553.1	661.0	781.0	846.4	908.2	1527.2	2181.0	2385.0	2622.5	2803.1
-2.5°	460.0	566.6	685.0	801.5	864.5	925.2	1524.6	2199.2	2391.5	2652.8	2940.2
-5°	464.8	577.2	705.1	818.8	880.8	940.2	1498.6	2185.9	2406.0	2698.9	3029.8
-7.5°	467.2	584.2	720.6	832.8	896.3	957.0	1466.4	2155.2	2479.9	2793.6	3086.0
-10°	468.0	588.4	723.7	839.5	910.6	973.5	1413.3	2090.6	2538.3	2833.2	3102.3
-12.5°	471.1	590.4	722.0	842.2	922.8	988.6	1347.6	2047.8	2616.7	2857.6	3096.4
-15°	470.8	589.7	717.2	841.4	937.7	1008.8	1260.4	1946.8	2664.6	2863.2	3080.4
-17.5°	466.8	586.3	709.8	838.6	951.8	1023.9	1137.3	1738.9	2527.9	2838.9	3061.6
-20°	459.0	579.0	699.5	829.5	959.7	1037.8	1122.6	1556.9	2246.6	2774.7	3026.1



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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°	447.7	568.2	686.8	814.2	955.9	1053.7	1132.8	1379.9	1968.8	2679.5	2968.5
-25°	434.6	553.2	672.1	806.0	950.4	1068.8	1134.9	1215.5	1727.2	2364.5	2869.4
-27.5°	420.1	534.6	656.0	788.5	941.8	1066.1	1134.1	1210.1	1469.8	1976.9	2711.5
-30°	403.2	513.7	633.6	763.2	911.5	1037.5	1131.4	1194.2	1273.6	1673.0	2299.4
-32.5°	384.5	490.2	607.1	734.4	872.4	1005.4	1115.7	1181.6	1251.2	1388.0	1892.9
-35°	366.2	467.4	577.9	701.3	832.5	961.9	1074.8	1168.2	1226.7	1303.6	1534.1
-37.5°	349.3	441.8	545.9	665.2	792.1	907.9	1029.9	1131.2	1211.3	1267.0	1360.2
-40°	329.6	413.3	513.0	624.8	738.7	848.9	965.1	1078.9	1177.3	1250.7	1306.3
-42.5°	307.5	387.5	477.7	577.0	682.3	787.2	897.0	1009.8	1117.7	1214.5	1283.4
-45°	283.6	358.7	439.9	530.0	623.5	723.4	828.0	934.8	1041.9	1148.6	1233.6
-47.5°	255.9	327.0	404.1	479.9	566.1	657.9	755.1	855.5	954.6	1057.6	1155.3
-50°	227.1	292.8	363.2	433.2	508.0	590.9	679.9	773.7	867.7	962.8	1057.0
-52.5°	201.0	255.5	320.4	386.3	452.5	523.4	604.0	689.5	778.1	867.9	950.3
-55°	173.1	222.2	275.4	337.2	399.3	461.0	526.5	603.8	684.1	767.4	841.3
-57.5°	151.6	188.6	234.5	285.6	343.3	401.7	459.2	517.3	589.0	663.0	725.2
-60°	133.8	160.5	195.7	238.8	284.7	338.7	392.7	446.8	502.3	555.2	612.7
-62.5°	117.5	139.3	164.0	194.2	234.0	275.7	323.6	373.4	424.2	469.9	512.1
-65°	110.5	120.9	139.5	162.0	184.9	220.5	258.8	298.0	342.1	382.6	420.6
-67.5°	103.0	112.7	122.3	134.2	154.8	175.8	196.9	231.5	266.1	297.4	328.4
-70°	97.1	104.5	113.0	121.7	130.6	142.7	161.6	181.1	200.6	222.3	248.5
-72.5°	91.2	97.9	104.7	111.5	119.4	127.7	136.4	145.2	158.8	175.4	190.4
-75°	85.6	91.2	97.3	103.5	109.8	116.1	123.1	131.3	139.4	147.5	155.1
-77.5°	80.2	85.3	90.4	95.6	101.0	106.7	112.8	119.3	126.0	132.6	138.5
-80°	74.5	79.3	83.7	88.1	93.0	97.9	103.0	108.3	114.2	120.2	125.6
-82.5°	68.4	72.3	76.4	80.3	84.8	89.2	93.6	98.1	102.9	107.8	112.2
-85°	62.5	65.3	68.8	72.2	76.2	80.2	83.9	87.7	91.9	96.0	99.5
-87.5°	58.4	61.2	63.9	66.6	69.8	73.0	76.0	79.1	82.6	86.1	88.7
-90°	2.7	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.1	1.8	1.8



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	84.0	85.8	87.6	88.5	89.4	91.2	93.0	95.7	98.4	101.4	104.4
87.5°	1.8	1.8	1.8	1.8	1.7	1.5	1.2	1.2	1.2	1.2	1.2
85°	2.2	2.2	2.2	2.0	1.8	1.8	1.7	1.7	1.8	1.5	1.2
82.5°	2.4	2.4	2.4	2.3	2.2	2.0	1.8	1.8	1.8	1.8	1.8
80°	2.6	2.5	2.4	2.4	2.4	2.3	2.3	2.1	1.8	2.1	2.3
77.5°	3.0	2.8	2.6	2.6	2.4	2.3	2.0	1.9	1.8	1.8	1.8
75°	3.1	3.2	3.6	3.7	3.6	3.2	2.7	2.7	2.7	2.6	2.4
72.5°	6.1	6.4	6.6	7.2	7.5	7.8	8.5	9.7	11.0	12.3	13.5
70°	12.3	14.0	14.4	14.4	14.4	14.8	15.4	16.2	17.1	17.9	18.6
67.5°	18.9	20.4	20.6	20.9	20.4	19.5	18.7	18.7	19.8	21.1	22.5
65°	23.0	21.5	20.4	20.1	19.8	18.8	17.2	16.1	15.8	15.5	15.6
62.5°	20.7	17.7	16.6	16.4	15.5	14.3	12.2	10.5	9.6	9.1	9.2
60°	17.9	14.4	12.3	11.3	9.9	8.4	7.1	5.8	5.4	5.2	5.3
57.5°	14.8	11.0	8.5	8.1	7.0	5.5	4.5	3.6	3.4	3.4	3.6
55°	13.5	11.5	9.7	9.0	7.7	7.1	6.1	4.8	4.5	4.9	5.4
52.5°	17.6	16.5	15.6	15.7	17.2	16.0	11.9	16.7	19.4	19.5	18.6
50°	38.5	34.7	49.5	47.6	59.5	67.4	61.2	68.7	79.5	87.0	92.3
47.5°	109.9	114.0	131.7	147.1	159.4	173.3	187.3	195.8	198.0	211.9	221.5
45°	221.4	234.7	254.4	264.3	283.8	306.8	322.9	330.2	372.6	425.4	459.4
42.5°	321.3	331.6	347.0	382.2	417.8	496.7	587.1	590.3	672.1	744.5	818.5
40°	391.2	410.5	465.6	549.0	741.4	891.5	998.3	1103.0	1120.5	1086.5	1105.0
37.5°	481.7	550.6	690.2	915.1	1081.6	1232.4	1293.1	1300.9	1322.1	1335.4	1314.3
35°	652.1	881.8	997.7	1188.8	1309.9	1339.3	1357.7	1375.8	1393.0	1404.9	1417.8
32.5°	1025.6	1310.1	1325.4	1374.5	1397.1	1423.2	1442.7	1454.0	1461.9	1472.2	1507.4
30°	1427.0	1493.3	1498.8	1494.8	1502.6	1520.2	1532.9	1553.7	1574.3	1598.1	1676.0
27.5°	1614.4	1665.2	1649.4	1622.3	1608.9	1622.9	1657.5	1689.8	1749.8	1812.9	1924.7
25°	1821.9	1855.5	1836.2	1788.2	1758.1	1777.9	1830.0	1891.5	2006.2	2107.5	2313.1
22.5°	2044.1	2106.6	2086.4	2072.0	2008.7	2018.1	2059.2	2198.0	2485.1	2939.7	3883.5
20°	2216.4	2292.8	2302.5	2302.8	2289.5	2293.4	2388.8	2836.3	3675.8	6313.7	8652.1
17.5°	2344.2	2389.0	2442.8	2464.9	2491.0	2567.4	3076.3	4624.5	8249.6	13101.4	16816.6
15°	2509.8	2567.1	2625.4	2662.3	2721.4	3141.2	4442.6	9197.6	15789.7	24024.4	34549.8
12.5°	2642.3	2713.0	2759.3	2788.5	2924.8	4029.1	8556.9	15402.2	25687.6	38465.6	57421.5
10°	2715.7	2770.8	2833.9	2935.2	3490.9	5844.3	12067.0	21644.0	37454.9	60471.5	85718.9
7.5°	2752.2	2823.5	2929.1	3083.0	4131.9	8531.6	16787.4	30550.5	52145.9	80806.1	115984.5
5°	2794.7	2926.5	3052.2	3228.4	4629.5	10472.0	20539.7	38146.8	64954.9	100015.1	143460.6
2.5°	2863.4	3061.6	3142.6	3311.9	4929.4	11721.1	22777.3	44088.2	74519.7	115690.2	164468.2
0°	2971.6	3136.6	3185.2	3355.5	5231.3	12338.8	24091.6	45717.3	78780.3	121794.7	172742.1
-2.5°	3094.0	3197.0	3250.9	3440.7	5382.8	12969.1	25125.8	46812.0	77765.6	119761.2	169633.7
-5°	3173.8	3255.6	3307.7	3493.3	5366.2	12338.9	23970.3	43593.5	71833.3	109394.9	153984.5
-7.5°	3228.1	3313.3	3367.8	3538.0	5049.0	10663.3	21171.7	37577.0	61045.9	91851.4	130365.4
-10°	3281.2	3374.1	3445.7	3580.1	4468.7	8140.3	16617.5	28349.1	47741.7	72252.1	101048.0
-12.5°	3329.0	3443.9	3536.0	3597.9	3923.7	6191.6	12211.8	21684.0	34364.1	52660.7	73732.7
-15°	3353.2	3490.7	3593.8	3662.0	3850.9	4895.8	7907.7	14348.6	23991.6	35340.6	49052.2
-17.5°	3311.5	3516.5	3615.7	3690.8	3752.9	4021.5	5578.1	8807.8	14830.6	22265.1	28963.1
-20°	3245.2	3519.4	3631.7	3732.8	3803.4	3876.5	4074.8	5609.1	8059.3	12620.3	17084.5



REPORT NUMBER: P731433 (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°	3189.1	3444.0	3678.5	3787.7	3868.9	3874.3	3880.4	4065.1	5021.8	6558.5	8920.0
-25°	3150.1	3391.4	3664.2	3833.4	3889.7	3891.7	3861.0	3826.7	3935.1	4044.2	4907.1
-27.5°	3084.3	3346.0	3602.5	3808.8	3892.2	3889.3	3866.0	3843.1	3805.5	3781.0	3874.1
-30°	3003.8	3266.8	3505.5	3713.0	3836.6	3874.6	3858.7	3841.7	3830.0	3821.9	3805.2
-32.5°	2574.7	3169.4	3370.5	3558.8	3735.2	3812.5	3846.9	3838.9	3828.5	3824.0	3827.0
-35°	2103.1	2717.1	3239.3	3373.5	3526.6	3680.3	3788.8	3813.4	3824.2	3822.3	3827.1
-37.5°	1612.5	2165.7	2678.8	3107.6	3291.9	3451.8	3609.5	3714.0	3776.6	3787.5	3802.3
-40°	1389.8	1546.2	2032.2	2463.3	2821.8	3152.0	3319.0	3499.5	3640.4	3697.1	3726.9
-42.5°	1331.0	1393.1	1456.9	1773.0	2144.2	2458.9	2770.8	3080.7	3337.9	3483.4	3578.1
-45°	1305.3	1340.0	1376.8	1427.6	1473.2	1739.0	2025.3	2327.3	2665.3	2917.8	3153.0
-47.5°	1230.5	1300.3	1335.5	1357.1	1373.2	1408.2	1439.6	1524.6	1806.0	2027.3	2272.7
-50°	1131.7	1202.6	1260.2	1311.3	1328.8	1336.9	1346.3	1374.6	1419.5	1452.2	1501.6
-52.5°	1017.2	1083.8	1147.9	1202.7	1241.8	1275.5	1307.7	1330.0	1348.2	1367.0	1384.9
-55°	907.9	964.5	1019.5	1070.9	1117.6	1156.4	1194.7	1231.1	1265.3	1297.4	1327.4
-57.5°	787.9	844.5	895.1	941.2	980.9	1013.3	1051.1	1091.2	1128.8	1162.2	1194.7
-60°	666.8	718.3	766.7	810.3	846.7	875.4	912.1	948.0	982.4	1013.4	1040.6
-62.5°	553.0	597.0	638.6	677.1	711.6	742.3	773.1	803.9	836.4	865.5	891.1
-65°	456.8	491.9	521.5	549.0	572.2	599.9	629.5	657.1	685.7	712.6	737.1
-67.5°	360.1	389.9	414.7	438.5	457.8	477.4	499.4	520.4	540.6	561.5	581.9
-70°	271.7	292.7	308.4	324.7	343.7	361.5	379.3	397.1	413.9	432.3	451.3
-72.5°	202.8	213.0	223.3	236.5	247.9	260.7	273.5	287.2	301.1	314.5	326.9
-75°	162.4	168.9	176.7	183.1	188.0	194.3	201.3	209.9	218.6	227.2	235.4
-77.5°	144.5	148.9	152.5	155.3	157.7	160.9	164.1	170.2	176.7	183.9	191.2
-80°	130.6	133.5	135.9	138.0	139.8	142.4	145.1	150.4	155.9	161.4	166.6
-82.5°	116.5	118.9	120.9	122.7	124.4	126.9	129.4	133.7	137.9	143.1	148.4
-85°	102.8	104.9	106.9	108.5	110.1	112.1	114.0	117.9	121.9	126.1	130.2
-87.5°	91.3	93.1	94.9	96.2	97.5	99.2	100.9	104.0	107.1	110.5	113.8
-90°	1.8	1.8	1.8	1.5	1.2	1.2	1.2	1.2	1.2	0.9	0.6



REPORT NUMBER: P731433 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-2S-VHE

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	104.7	105.0	105.0	105.0	105.0	105.0	104.7	104.4	101.4	98.4	95.7
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5	1.8	1.7
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.1	1.8	2.1
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9
75°	2.1	1.8	1.8	1.8	1.8	1.8	2.1	2.4	2.6	2.7	2.7
72.5°	14.7	15.7	16.4	16.8	16.4	15.7	14.7	13.5	12.3	11.0	9.7
70°	18.9	19.1	19.2	19.2	19.2	19.1	18.9	18.6	17.9	17.1	16.2
67.5°	23.3	23.8	24.0	24.0	24.0	23.8	23.3	22.5	21.1	19.8	18.7
65°	14.9	13.8	12.8	12.0	12.8	13.8	14.9	15.6	15.5	15.8	16.1
62.5°	9.0	8.6	8.4	8.4	8.4	8.6	9.0	9.2	9.1	9.6	10.5
60°	5.4	5.5	5.2	4.8	5.2	5.5	5.4	5.3	5.2	5.4	5.8
57.5°	3.9	4.2	4.5	4.8	4.5	4.2	3.9	3.6	3.4	3.4	3.6
55°	5.8	6.3	6.8	7.2	6.8	6.3	5.8	5.4	4.9	4.5	4.8
52.5°	16.8	15.0	14.5	15.0	14.5	15.0	16.8	18.6	19.5	19.4	16.7
50°	95.0	96.9	99.2	102.0	99.2	96.9	95.0	92.3	87.0	79.5	68.7
47.5°	224.3	220.0	216.0	214.7	216.0	220.0	224.3	221.5	211.9	198.0	195.8
45°	425.2	393.9	378.0	387.5	378.0	393.9	425.2	459.4	425.4	372.6	330.2
42.5°	858.3	904.6	940.8	958.0	940.8	904.6	858.3	818.5	744.5	672.1	590.3
40°	1076.0	1058.5	1067.9	1082.1	1067.9	1058.5	1076.0	1105.0	1086.5	1120.5	1103.0
37.5°	1324.5	1330.3	1288.5	1220.1	1288.5	1330.3	1324.5	1314.3	1335.4	1322.1	1300.9
35°	1445.1	1519.7	1659.3	1692.8	1659.3	1519.7	1445.1	1417.8	1404.9	1393.0	1375.8
32.5°	1596.1	1673.5	1697.3	1706.6	1697.3	1673.5	1596.1	1507.4	1472.2	1461.9	1454.0
30°	1776.5	1811.4	1802.6	1815.7	1802.6	1811.4	1776.5	1676.0	1598.1	1574.3	1553.7
27.5°	1974.1	1994.6	1987.9	2005.3	1987.9	1994.6	1974.1	1924.7	1812.9	1749.8	1689.8
25°	2484.3	2645.5	2637.0	2674.7	2637.0	2645.5	2484.3	2313.1	2107.5	2006.2	1891.5
22.5°	5032.5	5602.3	5943.5	6273.8	5943.5	5602.3	5032.5	3883.5	2939.7	2485.1	2198.0
20°	11244.5	12886.6	13244.1	13113.9	13244.1	12886.6	11244.5	8652.1	6313.7	3675.8	2836.3
17.5°	24136.7	30688.6	34206.7	34598.0	34206.7	30688.6	24136.7	16816.6	13101.4	8249.6	4624.5
15°	45423.7	56875.1	63376.9	64060.0	63376.9	56875.1	45423.7	34549.8	24024.4	15789.7	9197.6
12.5°	74256.7	92493.1	105880.8	107374.4	105880.8	92493.1	74256.7	57421.5	38465.6	25687.6	15402.2
10°	113751.3	138406.8	157903.5	162653.3	157903.5	138406.8	113751.3	85718.9	60471.5	37454.9	21644.0
7.5°	153170.9	181307.9	204254.2	209653.1	204254.2	181307.9	153170.9	115984.5	80806.1	52145.9	30550.5
5°	183986.5	219987.2	238298.7	244348.8	238298.7	219987.2	183986.5	143460.6	100015.1	64954.9	38146.8
2.5°	207475.6	241468.9	262966.1	271786.1	262966.1	241468.9	207475.6	164468.2	115690.2	74519.7	44088.2
0°	216542.9	249516.5	276892.0	293915.4	276892.0	249516.5	216542.9	172742.1	121794.7	78780.3	45717.3
-2.5°	212988.7	244736.5	268002.4	279045.2	268002.4	244736.5	212988.7	169633.7	119761.2	77765.6	46812.0
-5°	195020.8	227060.2	245048.8	250746.8	245048.8	227060.2	195020.8	153984.5	109394.9	71833.3	43593.5
-7.5°	164910.7	193112.4	214442.1	218265.4	214442.1	193112.4	164910.7	130365.4	91851.4	61045.9	37577.0
-10°	130701.8	155115.3	171387.0	174464.9	171387.0	155115.3	130701.8	101048.0	72252.1	47741.7	28349.1
-12.5°	92648.0	114092.8	126957.6	129331.5	126957.6	114092.8	92648.0	73732.7	52660.7	34364.1	21684.0
-15°	62958.9	76316.5	84113.8	84901.1	84113.8	76316.5	62958.9	49052.2	35340.6	23991.6	14348.6
-17.5°	39393.5	47338.8	52198.6	52243.7	52198.6	47338.8	39393.5	28963.1	22265.1	14830.6	8807.8
-20°	22806.5	26598.0	29316.9	29305.5	29316.9	26598.0	22806.5	17084.5	12620.3	8059.3	5609.1



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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°	11882.5	14135.9	15775.3	15700.4	15775.3	14135.9	11882.5	8920.0	6558.5	5021.8	4065.1
-25°	5834.9	6697.6	7271.8	7227.0	7271.8	6697.6	5834.9	4907.1	4044.2	3935.1	3826.7
-27.5°	3954.3	4049.2	4114.7	4121.5	4114.7	4049.2	3954.3	3874.1	3781.0	3805.5	3843.1
-30°	3798.7	3820.5	3843.3	3849.2	3843.3	3820.5	3798.7	3805.2	3821.9	3830.0	3841.7
-32.5°	3836.3	3853.2	3878.4	3894.2	3878.4	3853.2	3836.3	3827.0	3824.0	3828.5	3838.9
-35°	3839.0	3858.7	3887.7	3900.8	3887.7	3858.7	3839.0	3827.1	3822.3	3824.2	3813.4
-37.5°	3821.2	3845.2	3870.2	3881.6	3870.2	3845.2	3821.2	3802.3	3787.5	3776.6	3714.0
-40°	3753.4	3777.9	3796.1	3797.6	3796.1	3777.9	3753.4	3726.9	3697.1	3640.4	3499.5
-42.5°	3641.1	3671.6	3685.6	3683.1	3685.6	3671.6	3641.1	3578.1	3483.4	3337.9	3080.7
-45°	3376.1	3484.0	3536.9	3549.9	3536.9	3484.0	3376.1	3153.0	2917.8	2665.3	2327.3
-47.5°	2557.2	2715.3	2816.7	2857.1	2816.7	2715.3	2557.2	2272.7	2027.3	1806.0	1524.6
-50°	1566.2	1580.9	1590.6	1595.6	1590.6	1580.9	1566.2	1501.6	1452.2	1419.5	1374.6
-52.5°	1399.8	1404.0	1406.3	1406.6	1406.3	1404.0	1399.8	1384.9	1367.0	1348.2	1330.0
-55°	1349.0	1357.4	1362.8	1364.1	1362.8	1357.4	1349.0	1327.4	1297.4	1265.3	1231.1
-57.5°	1216.1	1221.0	1226.3	1229.7	1226.3	1221.0	1216.1	1194.7	1162.2	1128.8	1091.2
-60°	1057.0	1061.4	1062.3	1059.3	1062.3	1061.4	1057.0	1040.6	1013.4	982.4	948.0
-62.5°	905.1	909.2	913.3	914.8	913.3	909.2	905.1	891.1	865.5	836.4	803.9
-65°	748.6	750.6	751.6	749.8	751.6	750.6	748.6	737.1	712.6	685.7	657.1
-67.5°	591.5	595.5	601.3	605.2	601.3	595.5	591.5	581.9	561.5	540.6	520.4
-70°	455.7	453.9	457.7	460.7	457.7	453.9	455.7	451.3	432.3	413.9	397.1
-72.5°	328.5	326.6	325.2	322.7	325.2	326.6	328.5	326.9	314.5	301.1	287.2
-75°	234.9	232.6	232.2	231.5	232.2	232.6	234.9	235.4	227.2	218.6	209.9
-77.5°	191.3	190.4	189.2	187.8	189.2	190.4	191.3	191.2	183.9	176.7	170.2
-80°	167.1	167.1	166.4	165.6	166.4	167.1	167.1	166.6	161.4	155.9	150.4
-82.5°	148.6	148.6	148.2	147.6	148.2	148.6	148.6	148.4	143.1	137.9	133.7
-85°	130.5	130.7	130.2	129.6	130.2	130.7	130.5	130.2	126.1	121.9	117.9
-87.5°	114.2	114.6	114.3	114.0	114.3	114.6	114.2	113.8	110.5	107.1	104.0
-90°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.9	1.2	1.2



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	93.0	91.2	89.4	88.5	87.6	85.8	84.0	81.6	79.2	76.2	73.2
87.5°	1.2	1.5	1.7	1.8	1.8	1.8	1.8	1.8	1.8	2.1	2.4
85°	1.7	1.8	1.8	2.0	2.2	2.2	2.2	2.2	2.1	2.2	2.4
82.5°	1.8	2.0	2.2	2.3	2.4	2.4	2.4	2.5	2.6	2.5	2.5
80°	2.3	2.3	2.4	2.4	2.4	2.5	2.6	2.8	3.0	3.0	2.9
77.5°	2.0	2.3	2.4	2.6	2.6	2.8	3.0	3.0	3.1	3.3	3.3
75°	2.7	3.2	3.6	3.7	3.6	3.2	3.1	3.3	3.4	3.5	3.6
72.5°	8.5	7.8	7.5	7.2	6.6	6.4	6.1	5.6	5.0	4.2	3.6
70°	15.4	14.8	14.4	14.4	14.4	14.0	12.3	10.3	8.7	7.6	6.1
67.5°	18.7	19.5	20.4	20.9	20.6	20.4	18.9	16.8	16.1	14.6	10.6
65°	17.2	18.8	19.8	20.1	20.4	21.5	23.0	22.6	23.5	22.6	17.6
62.5°	12.2	14.3	15.5	16.4	16.6	17.7	20.7	23.9	28.7	30.0	24.3
60°	7.1	8.4	9.9	11.3	12.3	14.4	17.9	23.2	29.9	29.5	27.1
57.5°	4.5	5.5	7.0	8.1	8.5	11.0	14.8	21.3	28.0	27.8	24.4
55°	6.1	7.1	7.7	9.0	9.7	11.5	13.5	18.9	25.3	27.4	26.2
52.5°	11.9	16.0	17.2	15.7	15.6	16.5	17.6	21.9	25.7	28.8	29.9
50°	61.2	67.4	59.5	47.6	49.5	34.7	38.5	37.6	36.0	37.6	36.5
47.5°	187.3	173.3	159.4	147.1	131.7	114.0	109.9	85.0	82.5	61.4	61.2
45°	322.9	306.8	283.8	264.3	254.4	234.7	221.4	202.3	164.6	146.9	102.1
42.5°	587.1	496.7	417.8	382.2	347.0	331.6	321.3	308.8	288.7	253.0	211.6
40°	998.3	891.5	741.4	549.0	465.6	410.5	391.2	386.9	376.8	357.6	313.8
37.5°	1293.1	1232.4	1081.6	915.1	690.2	550.6	481.7	444.2	441.9	431.7	402.6
35°	1357.7	1339.3	1309.9	1188.8	997.7	881.8	652.1	539.8	494.9	486.7	477.0
32.5°	1442.7	1423.2	1397.1	1374.5	1325.4	1310.1	1025.6	712.9	566.3	536.6	521.1
30°	1532.9	1520.2	1502.6	1494.8	1498.8	1493.3	1427.0	1029.5	725.1	584.9	567.2
27.5°	1657.5	1622.9	1608.9	1622.3	1649.4	1665.2	1614.4	1418.1	949.3	716.9	613.3
25°	1830.0	1777.9	1758.1	1788.2	1836.2	1855.5	1821.9	1692.9	1367.8	893.2	661.6
22.5°	2059.2	2018.1	2008.7	2072.0	2086.4	2106.6	2044.1	1966.7	1791.8	1159.4	808.7
20°	2388.8	2293.4	2289.5	2302.8	2302.5	2292.8	2216.4	2146.6	1955.1	1501.7	973.5
17.5°	3076.3	2567.4	2491.0	2464.9	2442.8	2389.0	2344.2	2236.5	2097.9	1790.8	1133.4
15°	4442.6	3141.2	2721.4	2662.3	2625.4	2567.1	2509.8	2385.5	2255.0	1969.9	1362.6
12.5°	8556.9	4029.1	2924.8	2788.5	2759.3	2713.0	2642.3	2581.9	2409.2	2131.7	1599.4
10°	12067.0	5844.3	3490.9	2935.2	2833.9	2770.8	2715.7	2654.6	2509.8	2277.8	1831.0
7.5°	16787.4	8531.6	4131.9	3083.0	2929.1	2823.5	2752.2	2691.4	2573.6	2340.0	1984.6
5°	20539.7	10472.0	4629.5	3228.4	3052.2	2926.5	2794.7	2729.8	2613.1	2363.7	2085.9
2.5°	22777.3	11721.1	4929.4	3311.9	3142.6	3061.6	2863.4	2767.6	2628.2	2379.7	2150.1
0°	24091.6	12338.8	5231.3	3355.5	3185.2	3136.6	2971.6	2803.1	2622.5	2385.0	2181.0
-2.5°	25125.8	12969.1	5382.8	3440.7	3250.9	3197.0	3094.0	2940.2	2652.8	2391.5	2199.2
-5°	23970.3	12338.9	5366.2	3493.3	3307.7	3255.6	3173.8	3029.8	2698.9	2406.0	2185.9
-7.5°	21171.7	10663.3	5049.0	3538.0	3367.8	3313.3	3228.1	3086.0	2793.6	2479.9	2155.2
-10°	16617.5	8140.3	4468.7	3580.1	3445.7	3374.1	3281.2	3102.3	2833.2	2538.3	2090.6
-12.5°	12211.8	6191.6	3923.7	3597.9	3536.0	3443.9	3329.0	3096.4	2857.6	2616.7	2047.8
-15°	7907.7	4895.8	3850.9	3662.0	3593.8	3490.7	3353.2	3080.4	2863.2	2664.6	1946.8
-17.5°	5578.1	4021.5	3752.9	3690.8	3615.7	3516.5	3311.5	3061.6	2838.9	2527.9	1738.9
-20°	4074.8	3876.5	3803.4	3732.8	3631.7	3519.4	3245.2	3026.1	2774.7	2246.6	1556.9





REPORT NUMBER: P731433 (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°	3880.4	3874.3	3868.9	3787.7	3678.5	3444.0	3189.1	2968.5	2679.5	1968.8	1379.9
-25°	3861.0	3891.7	3889.7	3833.4	3664.2	3391.4	3150.1	2869.4	2364.5	1727.2	1215.5
-27.5°	3866.0	3889.3	3892.2	3808.8	3602.5	3346.0	3084.3	2711.5	1976.9	1469.8	1210.1
-30°	3858.7	3874.6	3836.6	3713.0	3505.5	3266.8	3003.8	2299.4	1673.0	1273.6	1194.2
-32.5°	3846.9	3812.5	3735.2	3558.8	3370.5	3169.4	2574.7	1892.9	1388.0	1251.2	1181.6
-35°	3788.8	3680.3	3526.6	3373.5	3239.3	2717.1	2103.1	1534.1	1303.6	1226.7	1168.2
-37.5°	3609.5	3451.8	3291.9	3107.6	2678.8	2165.7	1612.5	1360.2	1267.0	1211.3	1131.2
-40°	3319.0	3152.0	2821.8	2463.3	2032.2	1546.2	1389.8	1306.3	1250.7	1177.3	1078.9
-42.5°	2770.8	2458.9	2144.2	1773.0	1456.9	1393.1	1331.0	1283.4	1214.5	1117.7	1009.8
-45°	2025.3	1739.0	1473.2	1427.6	1376.8	1340.0	1305.3	1233.6	1148.6	1041.9	934.8
-47.5°	1439.6	1408.2	1373.2	1357.1	1335.5	1300.3	1230.5	1155.3	1057.6	954.6	855.5
-50°	1346.3	1336.9	1328.8	1311.3	1260.2	1202.6	1131.7	1057.0	962.8	867.7	773.7
-52.5°	1307.7	1275.5	1241.8	1202.7	1147.9	1083.8	1017.2	950.3	867.9	778.1	689.5
-55°	1194.7	1156.4	1117.6	1070.9	1019.5	964.5	907.9	841.3	767.4	684.1	603.8
-57.5°	1051.1	1013.3	980.9	941.2	895.1	844.5	787.9	725.2	663.0	589.0	517.3
-60°	912.1	875.4	846.7	810.3	766.7	718.3	666.8	612.7	555.2	502.3	446.8
-62.5°	773.1	742.3	711.6	677.1	638.6	597.0	553.0	512.1	469.9	424.2	373.4
-65°	629.5	599.9	572.2	549.0	521.5	491.9	456.8	420.6	382.6	342.1	298.0
-67.5°	499.4	477.4	457.8	438.5	414.7	389.9	360.1	328.4	297.4	266.1	231.5
-70°	379.3	361.5	343.7	324.7	308.4	292.7	271.7	248.5	222.3	200.6	181.1
-72.5°	273.5	260.7	247.9	236.5	223.3	213.0	202.8	190.4	175.4	158.8	145.2
-75°	201.3	194.3	188.0	183.1	176.7	168.9	162.4	155.1	147.5	139.4	131.3
-77.5°	164.1	160.9	157.7	155.3	152.5	148.9	144.5	138.5	132.6	126.0	119.3
-80°	145.1	142.4	139.8	138.0	135.9	133.5	130.6	125.6	120.2	114.2	108.3
-82.5°	129.4	126.9	124.4	122.7	120.9	118.9	116.5	112.2	107.8	102.9	98.1
-85°	114.0	112.1	110.1	108.5	106.9	104.9	102.8	99.5	96.0	91.9	87.7
-87.5°	100.9	99.2	97.5	96.2	94.9	93.1	91.3	88.7	86.1	82.6	79.1
-90°	1.2	1.2	1.2	1.5	1.8	1.8	1.8	1.8	1.8	2.1	2.4





REPORT NUMBER: P731433 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-2S-VHE

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	70.2	67.2	64.5	61.8	59.4	57.0	54.3	51.6	48.0	44.4	39.9
87.5°	2.4	2.4	2.6	2.7	2.7	2.7	2.8	3.0	3.0	3.0	3.1
85°	2.5	2.6	2.8	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.2
82.5°	2.7	3.0	3.0	3.0	3.2	3.3	3.2	3.2	3.1	3.0	3.3
80°	2.9	3.0	3.1	3.2	3.4	3.6	3.5	3.4	3.5	3.5	3.5
77.5°	3.2	3.2	3.4	3.5	3.5	3.6	3.7	3.7	3.9	3.9	3.8
75°	3.6	3.5	3.5	3.6	3.7	3.7	3.9	4.0	4.1	4.2	4.0
72.5°	3.6	3.7	3.7	3.7	3.9	4.0	4.1	4.3	4.4	4.5	4.3
70°	4.7	4.0	4.0	4.1	4.2	4.3	4.5	4.6	4.7	4.7	4.6
67.5°	6.7	5.6	4.9	4.6	4.6	4.8	4.8	5.0	5.1	5.0	4.9
65°	13.0	9.0	6.0	5.6	5.2	5.3	5.4	5.5	5.5	5.6	5.2
62.5°	19.0	14.0	10.3	7.5	6.5	6.7	6.0	6.5	6.2	6.3	5.9
60°	24.8	19.3	15.1	12.0	9.6	8.7	8.3	7.5	7.4	7.1	6.7
57.5°	24.4	23.5	21.2	17.1	14.6	12.4	11.2	10.1	8.9	8.5	7.6
55°	24.0	24.0	26.6	24.0	21.1	17.6	15.5	13.5	11.1	10.3	8.7
52.5°	28.0	28.6	30.7	32.1	29.9	24.6	22.3	17.2	15.3	12.2	10.6
50°	34.8	37.8	38.2	41.6	39.9	36.3	29.9	24.7	19.9	14.9	12.7
47.5°	52.6	55.5	52.6	55.4	52.8	49.9	42.1	33.5	24.8	19.5	14.8
45°	100.9	84.3	81.5	76.9	70.8	67.4	56.9	43.2	33.7	24.6	17.0
42.5°	168.3	144.7	131.2	102.9	99.9	88.0	74.3	58.7	43.2	30.0	20.7
40°	263.0	227.7	196.1	164.0	136.1	111.1	96.5	76.3	53.4	37.0	25.7
37.5°	354.8	313.0	276.6	228.9	182.3	149.0	120.9	95.2	66.6	47.0	30.8
35°	431.3	392.2	343.4	292.2	243.3	187.6	147.1	116.3	84.2	57.4	36.0
32.5°	494.0	454.5	398.6	346.8	291.8	226.1	179.0	138.8	102.2	68.3	41.5
30°	540.9	503.3	450.1	389.7	331.2	266.3	210.9	160.1	120.3	79.5	47.8
27.5°	589.5	553.3	500.0	433.2	365.3	300.7	237.1	180.4	138.5	91.2	56.1
25°	638.0	600.9	551.6	481.4	399.4	327.8	260.9	199.6	155.8	103.3	64.0
22.5°	680.4	644.8	602.9	532.2	438.0	354.1	283.3	220.4	167.5	114.5	71.4
20°	719.4	682.0	650.9	575.3	479.9	385.6	305.1	236.6	178.3	124.7	78.4
17.5°	775.2	715.2	676.0	608.3	519.4	417.9	327.7	251.9	188.3	134.0	84.8
15°	902.7	747.8	700.7	637.5	551.5	448.4	350.4	266.7	197.3	142.2	90.4
12.5°	1019.4	778.6	726.6	662.4	575.7	475.1	372.6	280.6	205.4	150.0	95.3
10°	1137.2	808.6	752.0	686.6	596.4	498.2	393.9	295.0	215.5	157.5	99.5
7.5°	1266.4	837.9	775.6	709.7	614.3	517.0	412.6	311.4	225.2	164.1	103.3
5°	1383.7	865.0	800.2	735.5	632.4	531.9	428.5	326.4	234.1	170.0	106.4
2.5°	1466.0	887.9	824.4	759.7	648.1	543.8	441.9	339.9	242.1	174.9	109.0
0°	1527.2	908.2	846.4	781.0	661.0	553.1	452.9	351.5	248.9	178.8	111.0
-2.5°	1524.6	925.2	864.5	801.5	685.0	566.6	460.0	357.6	256.1	184.2	115.0
-5°	1498.6	940.2	880.8	818.8	705.1	577.2	464.8	361.7	261.9	188.5	118.4
-7.5°	1466.4	957.0	896.3	832.8	720.6	584.2	467.2	363.9	266.4	191.7	121.0
-10°	1413.3	973.5	910.6	839.5	723.7	588.4	468.0	364.3	269.3	193.5	122.9
-12.5°	1347.6	988.6	922.8	842.2	722.0	590.4	471.1	363.8	270.5	194.1	123.8
-15°	1260.4	1008.8	937.7	841.4	717.2	589.7	470.8	361.3	268.3	192.7	123.8
-17.5°	1137.3	1023.9	951.8	838.6	709.8	586.3	466.8	356.0	264.6	189.1	122.5
-20°	1122.6	1037.8	959.7	829.5	699.5	579.0	459.0	347.6	259.2	184.4	120.2



REPORT NUMBER: P731433 (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°
-22.5°	1132.8	1053.7	955.9	814.2	686.8	568.2	447.7	336.6	252.2	178.4	117.1
-25°	1134.9	1068.8	950.4	806.0	672.1	553.2	434.6	325.7	243.5	171.3	113.2
-27.5°	1134.1	1066.1	941.8	788.5	656.0	534.6	420.1	318.0	236.4	163.0	108.5
-30°	1131.4	1037.5	911.5	763.2	633.6	513.7	403.2	308.5	228.5	156.3	103.0
-32.5°	1115.7	1005.4	872.4	734.4	607.1	490.2	384.5	296.9	218.8	150.7	99.5
-35°	1074.8	961.9	832.5	701.3	577.9	467.4	366.2	283.2	207.3	143.7	96.6
-37.5°	1029.9	907.9	792.1	665.2	545.9	441.8	349.3	268.3	194.1	135.3	93.2
-40°	965.1	848.9	738.7	624.8	513.0	413.3	329.6	251.6	182.2	125.6	89.0
-42.5°	897.0	787.2	682.3	577.0	477.7	387.5	307.5	232.7	169.4	118.2	84.0
-45°	828.0	723.4	623.5	530.0	439.9	358.7	283.6	212.2	154.9	111.5	80.2
-47.5°	755.1	657.9	566.1	479.9	404.1	327.0	255.9	193.9	139.0	103.9	78.7
-50°	679.9	590.9	508.0	433.2	363.2	292.8	227.1	173.7	129.0	95.3	76.9
-52.5°	604.0	523.4	452.5	386.3	320.4	255.5	201.0	152.2	118.1	90.8	74.8
-55°	526.5	461.0	399.3	337.2	275.4	222.2	173.1	137.7	106.2	87.9	72.5
-57.5°	459.2	401.7	343.3	285.6	234.5	188.6	151.6	122.5	100.5	84.7	71.0
-60°	392.7	338.7	284.7	238.8	195.7	160.5	133.8	110.0	96.3	81.5	69.4
-62.5°	323.6	275.7	234.0	194.2	164.0	139.3	117.5	104.4	91.6	79.1	67.4
-65°	258.8	220.5	184.9	162.0	139.5	120.9	110.5	98.4	87.7	76.5	65.3
-67.5°	196.9	175.8	154.8	134.2	122.3	112.7	103.0	93.4	83.9	73.6	63.1
-70°	161.6	142.7	130.6	121.7	113.0	104.5	97.1	88.8	79.9	70.8	60.7
-72.5°	136.4	127.7	119.4	111.5	104.7	97.9	91.2	84.1	76.2	67.8	58.2
-75°	123.1	116.1	109.8	103.5	97.3	91.2	85.6	79.5	72.3	64.7	55.6
-77.5°	112.8	106.7	101.0	95.6	90.4	85.3	80.2	74.8	68.1	61.3	52.8
-80°	103.0	97.9	93.0	88.1	83.7	79.3	74.5	69.7	63.7	57.7	49.9
-82.5°	93.6	89.2	84.8	80.3	76.4	72.3	68.4	64.4	59.2	53.9	47.1
-85°	83.9	80.2	76.2	72.2	68.8	65.3	62.5	59.6	55.2	50.8	44.8
-87.5°	76.0	73.0	69.8	66.6	63.9	61.2	58.4	55.6	51.6	47.6	42.4
-90°	2.4	2.4	2.4	2.4	2.4	2.4	2.7	3.0	3.0	3.0	3.0



REPORT NUMBER: P731433 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	35.4	29.4	23.4	16.5	9.6	6.3	3.0
87.5°	3.2	3.1	3.1	3.1	3.1	3.1	3.0
85°	3.3	3.3	3.2	3.2	3.2	3.2	3.0
82.5°	3.5	3.4	3.3	3.4	3.3	3.2	3.0
80°	3.6	3.5	3.4	3.5	3.4	3.3	3.0
77.5°	3.8	3.7	3.5	3.6	3.5	3.4	3.0
75°	4.0	3.9	3.7	3.7	3.6	3.5	3.0
72.5°	4.1	4.1	3.9	3.8	3.8	3.5	3.0
70°	4.3	4.3	4.1	4.0	3.9	3.6	3.0
67.5°	4.7	4.5	4.3	4.1	4.0	3.7	3.0
65°	5.1	4.8	4.5	4.3	4.1	3.8	3.0
62.5°	5.4	5.2	4.7	4.5	4.2	3.9	3.0
60°	5.8	5.5	4.9	4.6	4.4	3.9	3.0
57.5°	6.8	5.9	5.3	4.8	4.5	4.0	3.0
55°	7.9	6.3	5.8	4.9	4.7	4.1	3.0
52.5°	9.1	6.8	6.2	5.1	4.9	4.2	3.0
50°	10.4	8.1	6.7	5.2	5.1	4.2	3.0
47.5°	11.8	9.4	7.2	5.4	5.3	4.3	3.0
45°	13.7	10.7	7.8	5.8	5.6	4.4	3.0
42.5°	15.7	12.1	8.3	6.3	5.8	4.5	3.0
40°	17.8	13.6	9.2	6.9	6.1	4.5	3.0
37.5°	20.0	15.0	10.3	7.6	6.3	4.6	3.0
35°	22.3	16.8	11.4	8.3	6.6	4.7	3.0
32.5°	25.3	18.6	12.6	9.1	6.9	4.8	3.0
30°	29.7	20.4	13.7	9.9	7.2	4.8	3.0
27.5°	34.1	22.2	15.2	10.7	7.5	4.9	3.0
25°	38.5	24.1	16.6	11.5	7.8	4.9	3.0
22.5°	42.7	25.9	18.0	12.3	8.2	5.0	3.0
20°	46.8	27.8	19.4	13.1	8.5	5.1	3.0
17.5°	50.6	29.7	20.7	13.9	8.8	5.1	3.0
15°	53.9	31.5	21.9	14.8	9.1	5.2	3.0
12.5°	57.0	33.2	23.1	15.6	9.4	5.2	3.0
10°	59.8	34.8	24.3	16.4	9.7	5.3	3.0
7.5°	62.3	36.3	25.4	17.1	10.0	5.3	3.0
5°	64.4	37.7	26.4	17.8	10.3	5.3	3.0
2.5°	66.3	39.0	27.3	18.5	10.6	5.4	3.0
0°	67.8	40.2	28.2	19.2	10.8	5.4	3.0
-2.5°	70.0	41.9	29.4	20.0	11.4	5.6	3.0
-5°	71.8	43.4	30.6	20.8	11.9	5.9	3.0
-7.5°	73.3	44.8	31.7	21.6	12.4	6.1	3.0
-10°	74.4	46.1	32.7	22.3	12.9	6.3	3.0
-12.5°	75.2	47.2	33.6	22.9	13.4	6.5	3.0
-15°	75.5	48.2	34.4	23.5	13.8	6.7	3.0
-17.5°	75.5	49.1	35.1	24.0	14.2	6.9	3.0
-20°	75.2	49.7	35.7	24.5	14.6	7.1	3.0



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 CATALOG NUMBER: EPH-LS-08-0320N-57-80-2S-VHE

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	74.6	50.2	36.3	24.9	14.9	7.2	3.0
-25°	73.6	50.7	36.7	25.2	15.2	7.4	3.0
-27.5°	72.2	51.0	37.0	25.5	15.4	7.5	3.0
-30°	70.2	51.2	37.2	25.8	15.6	7.6	3.0
-32.5°	67.9	51.2	37.5	25.9	15.8	7.7	3.0
-35°	66.9	51.0	37.7	26.0	15.9	7.8	3.0
-37.5°	66.6	50.8	37.8	26.1	16.0	7.9	3.0
-40°	66.0	50.8	37.7	26.1	16.0	8.0	3.0
-42.5°	65.2	50.7	37.7	26.0	16.0	8.0	3.0
-45°	64.1	50.4	37.7	26.0	16.0	8.1	3.0
-47.5°	62.9	50.0	37.5	25.9	15.9	8.1	3.0
-50°	62.0	49.5	37.3	25.8	15.7	8.1	3.0
-52.5°	61.1	48.8	37.0	25.6	15.6	8.1	3.0
-55°	60.1	48.1	36.6	25.3	15.3	8.1	3.0
-57.5°	58.9	47.3	36.0	25.0	15.1	8.0	3.0
-60°	57.5	46.4	35.4	24.6	14.8	8.0	3.0
-62.5°	56.1	45.3	34.7	24.1	14.5	7.9	3.0
-65°	54.5	44.1	33.9	23.6	14.2	7.8	3.0
-67.5°	52.8	42.8	33.1	23.0	13.9	7.7	3.0
-70°	50.8	41.4	32.1	22.3	13.5	7.6	3.0
-72.5°	48.9	39.9	31.0	21.7	13.1	7.5	3.0
-75°	46.8	38.3	29.9	21.1	12.7	7.3	3.0
-77.5°	44.7	36.6	28.9	20.5	12.3	7.2	3.0
-80°	42.4	35.2	28.0	19.8	11.8	7.0	3.0
-82.5°	40.7	33.8	26.9	19.0	11.3	6.9	3.0
-85°	39.0	32.4	25.8	18.2	10.7	6.7	3.0
-87.5°	37.2	30.9	24.6	17.4	10.2	6.5	3.0
-90°	3.0	3.0	3.0	3.0	3.0	3.0	3.0

(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

