

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: P731230 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-80-3S-HEG**

Issue Date: 11/16/2023

**Test Information**

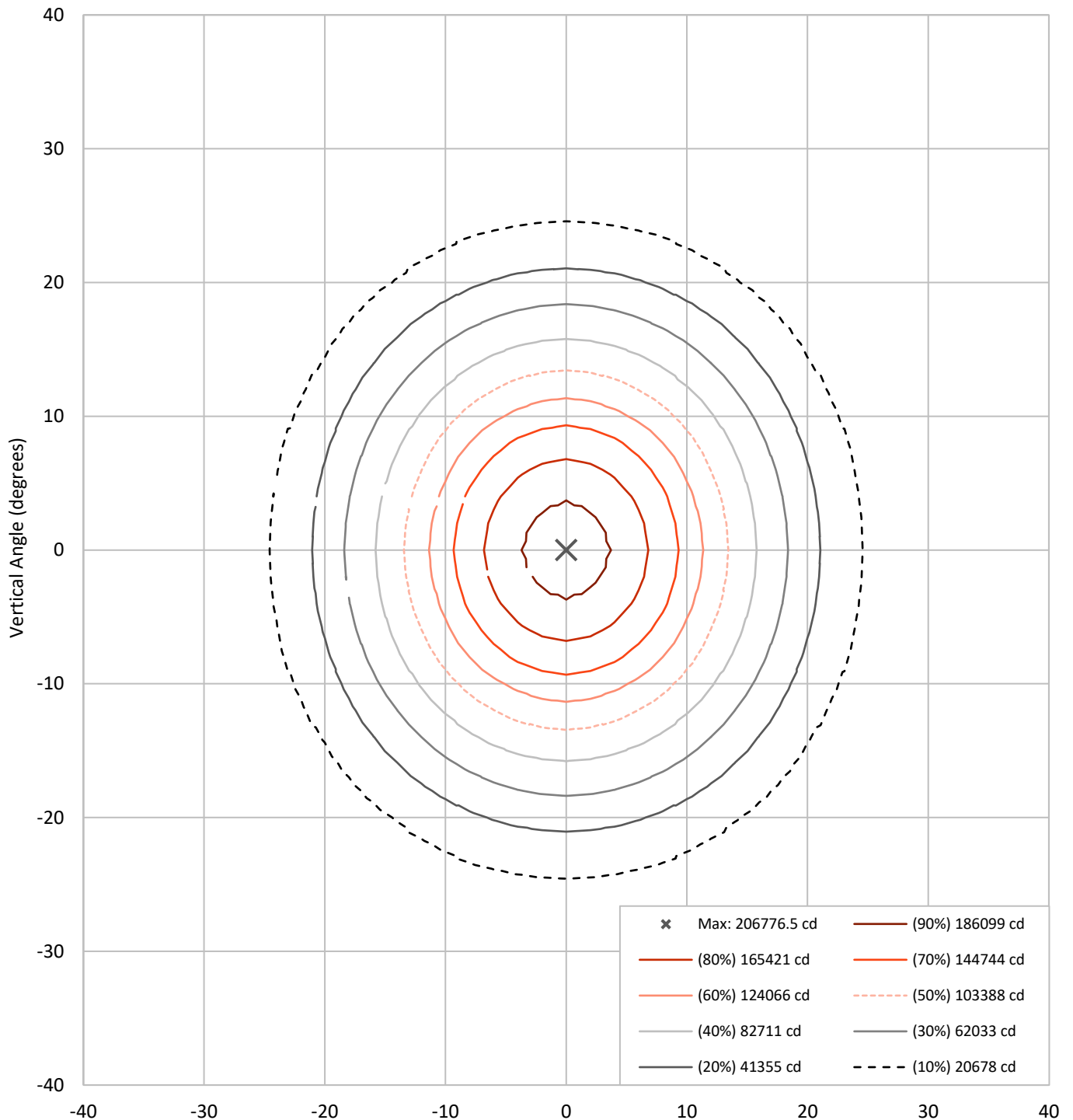
Test Method: LM-79-08  
Report Number: P731230 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320N-57-80-3S-HEG  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 5700K, 80 CRI LEDS AND 3S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	55847.6 lumens	Max Intensity:	206776.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	161.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	26.9°H x 26.9°V	Field Angle (10%):	48.9°H x 48.9°V
Beam Lumens:	24214.6 lumens	Field Lumens:	46359 lumens
Beam Efficiency:	43.4%	Field Efficiency:	83.0%
Input Watts (W):	345.8		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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### Iso-Candela Plot





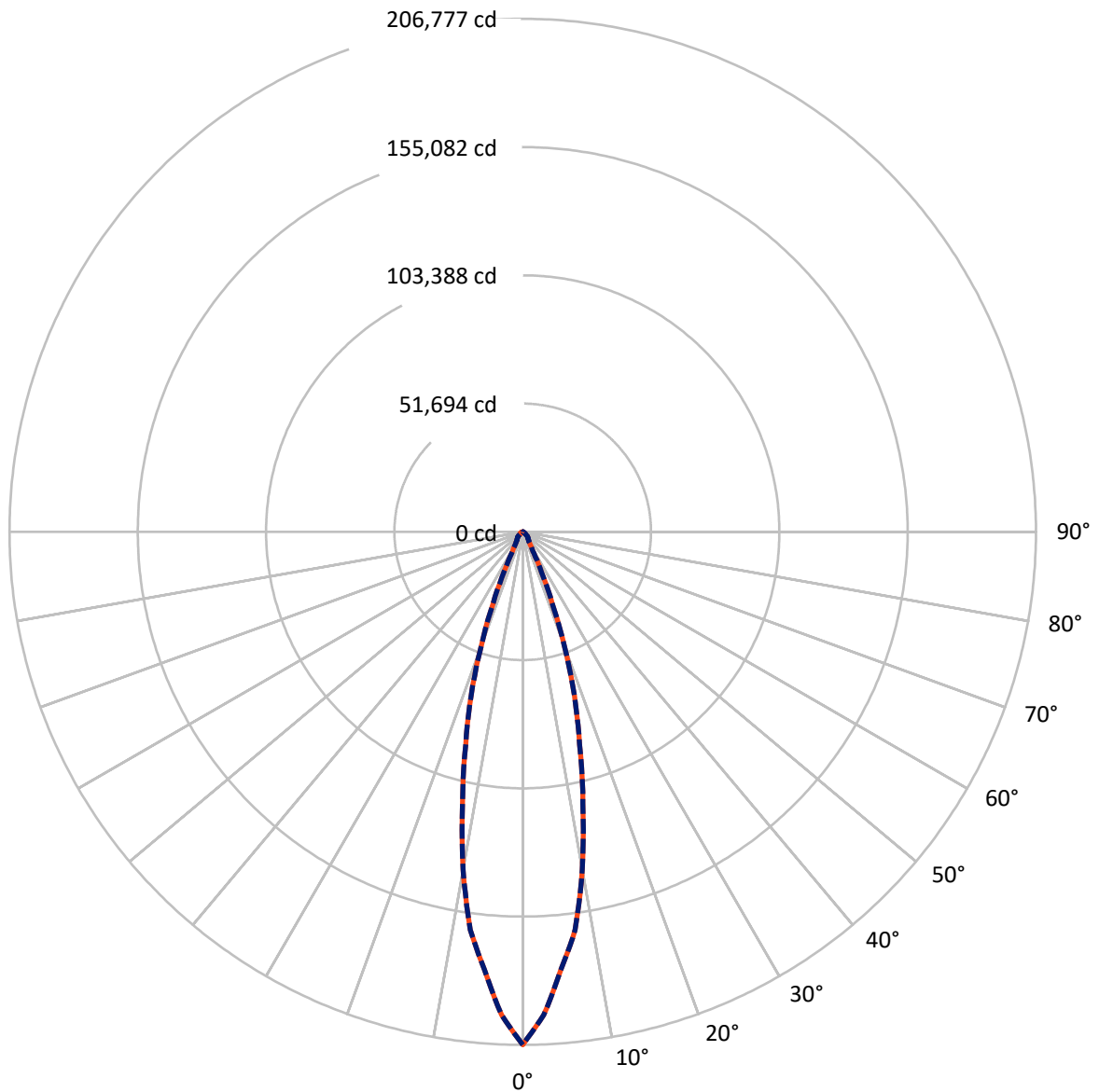
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### Lumen Table

90																			
80	0.1	0.5		1.9		5.1		6.7		5.1		1.9		0.5		0.1			
70																			
60	0.2	0.3	1.2	3.7	7.3	11.1	14.2	15.9	15.9	14.2	11.1	7.3	3.7	1.2	0.3	0.2			
50		0.9	4.3	10.2	17.5	24.9	30.9	34.1	34.1	30.9	24.9	17.5	10.2	4.3	0.9				
40	0.6	2.3	8.3	17.7	29.2	46.1	65.9	77.3	77.3	65.9	46.1	29.2	17.7	8.3	2.3	0.6			
30		3.9	12.3	25.3	51.6	85.0	109.4	128.5	128.5	109.4	85.0	51.6	25.3	12.3	3.9				
20	1.5	5.3	15.9	36.2	77.0	121.9	281.7	579.5	579.5	281.7	121.9	77.0	36.2	15.9	5.3	1.5			
10		6.4	18.6	48.8	93.1	266.0	1232.6	2468.3	2468.3	1232.6	266.0	93.1	48.8	18.6	6.4				
0	1.9	6.9	19.9	55.4	106.2	533.4	2400.7	4734.7	4734.7	2400.7	533.4	106.2	55.4	19.9	6.9	1.9			
-10		6.9	19.9	55.4	106.2	533.4	2400.7	4734.7	4734.7	2400.7	533.4	106.2	55.4	19.9	6.9				
-20	1.5	6.4	18.6	48.8	93.1	266.0	1232.6	2468.3	2468.3	1232.6	266.0	93.1	48.8	18.6	6.4	1.5			
-30		5.3	15.9	36.2	77.0	121.9	281.7	579.5	579.5	281.7	121.9	77.0	36.2	15.9	5.3				
-40	0.6	3.9	12.3	25.3	51.6	85.0	109.4	128.5	128.5	109.4	85.0	51.6	25.3	12.3	3.9	0.6			
-50		2.3	8.3	17.7	29.2	46.1	65.9	77.3	77.3	65.9	46.1	29.2	17.7	8.3	2.3				
-60	0.2	0.9	4.3	10.2	17.5	24.9	30.9	34.1	34.1	30.9	24.9	17.5	10.2	4.3	0.9	0.2			
-70		0.3	1.2	3.7	7.3	11.1	14.2	15.9	15.9	14.2	11.1	7.3	3.7	1.2	0.3				
-80	0.1	0.5		1.9		5.1		6.7		5.1		1.9		0.5		0.1			
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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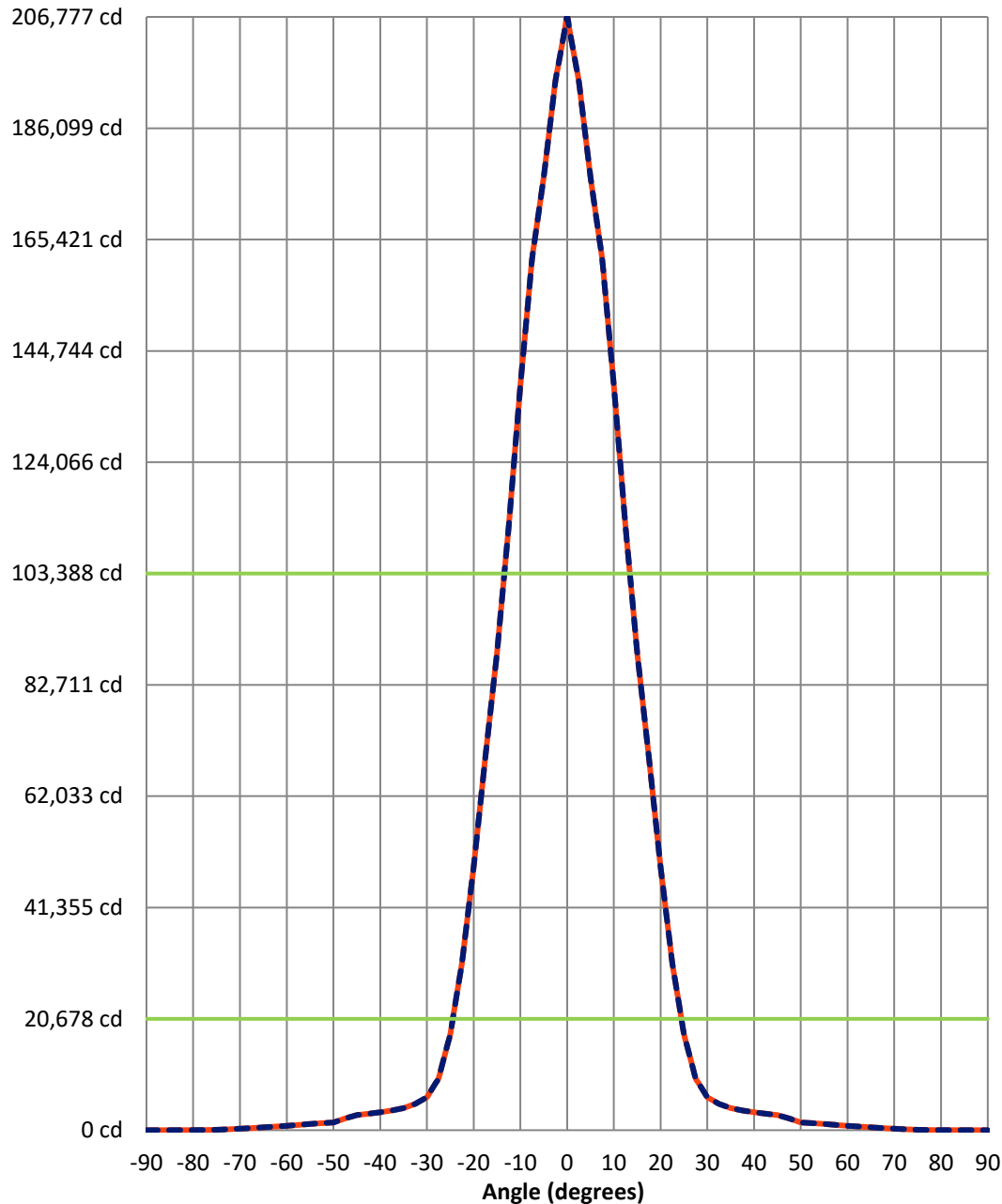
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 26.9°  
 V Angle: 26.9°  
 Lumens: 24214.6  
 Efficiency: 43.4%

**Field:**  
 H Angle: 48.9°  
 V Angle: 48.9°  
 Lumens: 46359  
 Efficiency: 83.0%

**Spill:**  
 Lumens: 9488.6  
 Efficiency: 17.0%

— 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	0.2	0.3	0.5	0.7	0.8	1.0	1.1	1.3	1.5	1.6
85°	0.0	0.3	0.7	1.0	1.3	1.6	2.0	2.3	2.6	2.9	3.2
82.5°	0.0	0.5	1.0	1.5	2.0	2.5	2.9	3.4	3.9	4.2	4.5
80°	0.0	0.7	1.3	2.0	2.6	3.3	3.9	4.4	4.8	5.3	5.7
77.5°	0.0	0.8	1.6	2.5	3.3	4.0	4.6	5.2	5.8	6.3	7.1
75°	0.0	1.0	2.0	2.9	3.9	4.6	5.3	6.0	6.7	7.9	9.0
72.5°	0.0	1.1	2.3	3.4	4.4	5.2	6.0	7.0	8.3	9.6	10.9
70°	0.0	1.3	2.6	3.9	4.8	5.8	6.7	8.3	9.8	11.4	13.4
67.5°	0.0	1.5	2.9	4.2	5.3	6.3	7.9	9.6	11.4	13.7	16.1
65°	0.0	1.6	3.2	4.5	5.7	7.1	9.0	10.9	13.4	16.1	19.4
62.5°	0.0	1.8	3.5	4.9	6.2	8.0	10.1	12.6	15.5	18.8	24.5
60°	0.0	1.9	3.8	5.2	6.6	8.9	11.2	14.3	17.5	23.3	29.4
57.5°	0.0	2.0	4.0	5.5	7.3	9.8	12.6	16.0	21.0	27.7	42.3
55°	0.0	2.2	4.2	5.8	7.9	10.6	14.0	17.7	24.8	34.2	58.6
52.5°	0.0	2.3	4.4	6.1	8.6	11.5	15.4	20.8	28.5	48.5	74.4
50°	0.0	2.4	4.6	6.4	9.2	12.6	16.8	23.9	34.6	62.4	103.3
47.5°	0.0	2.6	4.8	6.7	9.9	13.7	18.3	26.9	46.5	75.8	132.9
45°	0.0	2.7	5.0	7.2	10.5	14.7	20.8	29.8	58.0	101.1	161.4
42.5°	0.0	2.8	5.1	7.6	11.0	15.7	23.1	36.6	69.0	125.7	194.9
40°	0.0	2.9	5.3	8.0	11.7	16.7	25.4	45.8	82.8	149.2	228.1
37.5°	0.0	3.0	5.4	8.4	12.4	17.6	27.6	54.5	102.7	173.3	259.7
35°	0.0	3.1	5.6	8.7	13.1	19.0	29.6	62.8	121.5	200.1	289.4
32.5°	0.0	3.2	5.7	9.1	13.7	20.6	33.0	70.5	139.2	225.4	316.9
30°	0.0	3.3	5.8	9.4	14.3	22.1	39.2	79.5	155.7	249.1	342.8
27.5°	0.0	3.4	6.0	9.7	14.9	23.5	44.9	92.9	172.6	271.1	366.8
25°	0.0	3.4	6.1	10.0	15.4	24.8	50.2	105.2	190.6	291.1	389.3
22.5°	0.0	3.5	6.2	10.2	15.9	25.9	55.1	116.5	206.9	309.2	414.9
20°	0.0	3.6	6.3	10.4	16.3	27.0	59.4	126.6	221.7	325.5	438.1
17.5°	0.0	3.6	6.3	10.6	16.7	27.9	63.3	135.6	234.8	340.0	458.7
15°	0.0	3.7	6.4	10.8	17.0	28.7	66.7	143.4	246.2	352.7	476.7
12.5°	0.0	3.7	6.5	11.0	17.3	29.4	69.5	150.1	255.9	363.4	492.1
10°	0.0	3.7	6.5	11.1	17.5	30.0	71.9	155.6	263.9	372.3	504.7
7.5°	0.0	3.8	6.6	11.2	17.7	30.4	73.7	159.9	270.2	379.2	514.5
5°	0.0	3.8	6.6	11.2	17.8	30.7	75.0	162.9	274.6	384.1	521.5
2.5°	0.0	3.8	6.6	11.3	17.9	30.9	75.8	164.8	277.3	387.1	525.8
0°	0.0	3.8	6.6	11.3	17.9	31.0	76.1	165.4	278.2	388.1	527.2
-2.5°	0.0	3.8	6.6	11.3	17.9	30.9	75.8	164.8	277.3	387.1	525.8
-5°	0.0	3.8	6.6	11.2	17.8	30.7	75.0	162.9	274.6	384.1	521.5
-7.5°	0.0	3.8	6.6	11.2	17.7	30.4	73.7	159.9	270.2	379.2	514.5
-10°	0.0	3.7	6.5	11.1	17.5	30.0	71.9	155.6	263.9	372.3	504.7
-12.5°	0.0	3.7	6.5	11.0	17.3	29.4	69.5	150.1	255.9	363.4	492.1
-15°	0.0	3.7	6.4	10.8	17.0	28.7	66.7	143.4	246.2	352.7	476.7
-17.5°	0.0	3.6	6.3	10.6	16.7	27.9	63.3	135.6	234.8	340.0	458.7
-20°	0.0	3.6	6.3	10.4	16.3	27.0	59.4	126.6	221.7	325.5	438.1



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 CATALOG NUMBER: EPH-LS-08-0320N-57-80-3S-HEG

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	3.5	6.2	10.2	15.9	25.9	55.1	116.5	206.9	309.2	414.9
-25°	0.0	3.4	6.1	10.0	15.4	24.8	50.2	105.2	190.6	291.1	389.3
-27.5°	0.0	3.4	6.0	9.7	14.9	23.5	44.9	92.9	172.6	271.1	366.8
-30°	0.0	3.3	5.8	9.4	14.3	22.1	39.2	79.5	155.7	249.1	342.8
-32.5°	0.0	3.2	5.7	9.1	13.7	20.6	33.0	70.5	139.2	225.4	316.9
-35°	0.0	3.1	5.6	8.7	13.1	19.0	29.6	62.8	121.5	200.1	289.4
-37.5°	0.0	3.0	5.4	8.4	12.4	17.6	27.6	54.5	102.7	173.3	259.7
-40°	0.0	2.9	5.3	8.0	11.7	16.7	25.4	45.8	82.8	149.2	228.1
-42.5°	0.0	2.8	5.1	7.6	11.0	15.7	23.1	36.6	69.0	125.7	194.9
-45°	0.0	2.7	5.0	7.2	10.5	14.7	20.8	29.8	58.0	101.1	161.4
-47.5°	0.0	2.6	4.8	6.7	9.9	13.7	18.3	26.9	46.5	75.8	132.9
-50°	0.0	2.4	4.6	6.4	9.2	12.6	16.8	23.9	34.6	62.4	103.3
-52.5°	0.0	2.3	4.4	6.1	8.6	11.5	15.4	20.8	28.5	48.5	74.4
-55°	0.0	2.2	4.2	5.8	7.9	10.6	14.0	17.7	24.8	34.2	58.6
-57.5°	0.0	2.0	4.0	5.5	7.3	9.8	12.6	16.0	21.0	27.7	42.3
-60°	0.0	1.9	3.8	5.2	6.6	8.9	11.2	14.3	17.5	23.3	29.4
-62.5°	0.0	1.8	3.5	4.9	6.2	8.0	10.1	12.6	15.5	18.8	24.5
-65°	0.0	1.6	3.2	4.5	5.7	7.1	9.0	10.9	13.4	16.1	19.4
-67.5°	0.0	1.5	2.9	4.2	5.3	6.3	7.9	9.6	11.4	13.7	16.1
-70°	0.0	1.3	2.6	3.9	4.8	5.8	6.7	8.3	9.8	11.4	13.4
-72.5°	0.0	1.1	2.3	3.4	4.4	5.2	6.0	7.0	8.3	9.6	10.9
-75°	0.0	1.0	2.0	2.9	3.9	4.6	5.3	6.0	6.7	7.9	9.0
-77.5°	0.0	0.8	1.6	2.5	3.3	4.0	4.6	5.2	5.8	6.3	7.1
-80°	0.0	0.7	1.3	2.0	2.6	3.3	3.9	4.4	4.8	5.3	5.7
-82.5°	0.0	0.5	1.0	1.5	2.0	2.5	2.9	3.4	3.9	4.2	4.5
-85°	0.0	0.3	0.7	1.0	1.3	1.6	2.0	2.3	2.6	2.9	3.2
-87.5°	0.0	0.2	0.3	0.5	0.7	0.8	1.0	1.1	1.3	1.5	1.6
-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°	1.8	1.9	2.0	2.2	2.3	2.4	2.6	2.7	2.8	2.9	3.0
85°	3.5	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.1	5.3	5.4
82.5°	4.9	5.2	5.5	5.8	6.1	6.4	6.7	7.2	7.6	8.0	8.4
80°	6.2	6.6	7.3	7.9	8.6	9.2	9.9	10.5	11.0	11.7	12.4
77.5°	8.0	8.9	9.8	10.6	11.5	12.6	13.7	14.7	15.7	16.7	17.6
75°	10.1	11.2	12.6	14.0	15.4	16.8	18.3	20.8	23.1	25.4	27.6
72.5°	12.6	14.3	16.0	17.7	20.8	23.9	26.9	29.8	36.6	45.8	54.5
70°	15.5	17.5	21.0	24.8	28.5	34.6	46.5	58.0	69.0	82.8	102.7
67.5°	18.8	23.3	27.7	34.2	48.5	62.4	75.8	101.1	125.7	149.2	173.3
65°	24.5	29.4	42.3	58.6	74.4	103.3	132.9	161.4	194.9	228.1	259.7
62.5°	30.0	46.3	64.6	88.9	123.4	157.0	195.9	235.6	273.8	309.6	343.7
60°	46.3	66.7	97.0	135.6	175.4	221.7	266.6	309.2	349.9	389.3	436.5
57.5°	64.6	97.0	139.7	185.7	237.2	287.2	334.7	380.6	434.7	488.5	540.3
55°	88.9	135.6	185.7	242.4	297.4	350.1	404.7	467.5	528.2	587.6	644.6
52.5°	123.4	175.4	237.2	297.4	355.2	417.9	487.4	555.4	621.9	685.5	745.3
50°	157.0	221.7	287.2	350.1	417.9	494.1	569.1	642.7	712.7	779.5	852.4
47.5°	195.9	266.6	334.7	404.7	487.4	569.1	649.6	726.3	800.3	887.1	972.2
45°	235.6	309.2	380.6	467.5	555.4	642.7	726.3	807.2	904.5	999.6	1094.3
42.5°	273.8	349.9	434.7	528.2	621.9	712.7	800.3	904.5	1008.8	1113.1	1204.2
40°	309.6	389.3	488.5	587.6	685.5	779.5	887.1	999.6	1113.1	1212.2	1300.9
37.5°	343.7	436.5	540.3	644.6	745.3	852.4	972.2	1094.3	1204.2	1300.9	1379.5
35°	376.0	481.5	590.3	698.1	802.3	928.5	1056.9	1180.3	1284.7	1372.6	1588.9
32.5°	411.4	524.0	637.7	748.1	868.3	1001.7	1137.9	1252.4	1352.0	1502.7	2030.8
30°	447.7	564.6	681.8	795.3	931.5	1073.0	1204.8	1318.2	1412.6	1898.9	2405.2
27.5°	481.5	602.6	722.3	847.0	991.3	1139.8	1264.7	1371.5	1682.2	2257.6	2735.0
25°	512.7	637.7	759.7	897.6	1048.7	1194.3	1317.9	1421.3	2009.7	2547.1	2902.4
22.5°	541.5	669.8	794.1	944.1	1101.4	1241.8	1360.5	1666.4	2289.9	2808.4	3020.8
20°	567.8	698.1	829.4	986.5	1149.2	1285.0	1399.3	1923.2	2518.3	2909.3	3134.0
17.5°	591.2	723.3	863.7	1025.7	1186.0	1320.5	1463.0	2153.8	2723.8	3000.4	3238.6
15°	611.7	745.3	893.8	1060.0	1217.2	1348.7	1650.2	2326.1	2845.0	3082.4	3331.9
12.5°	629.1	764.1	919.4	1089.3	1243.8	1372.7	1810.5	2469.7	2909.0	3156.2	3430.0
10°	643.4	779.5	940.5	1113.4	1265.8	1392.6	1943.1	2588.6	2962.0	3217.5	3511.7
7.5°	654.6	791.6	957.0	1132.3	1283.0	1408.2	2047.2	2681.9	3003.7	3265.7	3576.1
5°	662.7	800.3	968.8	1145.9	1295.4	1419.4	2122.0	2749.1	3033.7	3300.5	3622.7
2.5°	667.5	805.5	975.9	1154.1	1302.8	1426.1	2167.0	2789.7	3051.8	3321.6	3650.9
0°	669.1	807.2	978.3	1156.8	1305.3	1428.4	2182.1	2803.2	3057.9	3328.6	3660.3
-2.5°	667.5	805.5	975.9	1154.1	1302.8	1426.1	2167.0	2789.7	3051.8	3321.6	3650.9
-5°	662.7	800.3	968.8	1145.9	1295.4	1419.4	2122.0	2749.1	3033.7	3300.5	3622.7
-7.5°	654.6	791.6	957.0	1132.3	1283.0	1408.2	2047.2	2681.9	3003.7	3265.7	3576.1
-10°	643.4	779.5	940.5	1113.4	1265.8	1392.6	1943.1	2588.6	2962.0	3217.5	3511.7
-12.5°	629.1	764.1	919.4	1089.3	1243.8	1372.7	1810.5	2469.7	2909.0	3156.2	3430.0
-15°	611.7	745.3	893.8	1060.0	1217.2	1348.7	1650.2	2326.1	2845.0	3082.4	3331.9
-17.5°	591.2	723.3	863.7	1025.7	1186.0	1320.5	1463.0	2153.8	2723.8	3000.4	3238.6
-20°	567.8	698.1	829.4	986.5	1149.2	1285.0	1399.3	1923.2	2518.3	2909.3	3134.0



REPORT NUMBER: P731230 (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°	541.5	669.8	794.1	944.1	1101.4	1241.8	1360.5	1666.4	2289.9	2808.4	3020.8
-25°	512.7	637.7	759.7	897.6	1048.7	1194.3	1317.9	1421.3	2009.7	2547.1	2902.4
-27.5°	481.5	602.6	722.3	847.0	991.3	1139.8	1264.7	1371.5	1682.2	2257.6	2735.0
-30°	447.7	564.6	681.8	795.3	931.5	1073.0	1204.8	1318.2	1412.6	1898.9	2405.2
-32.5°	411.4	524.0	637.7	748.1	868.3	1001.7	1137.9	1252.4	1352.0	1502.7	2030.8
-35°	376.0	481.5	590.3	698.1	802.3	928.5	1056.9	1180.3	1284.7	1372.6	1588.9
-37.5°	343.7	436.5	540.3	644.6	745.3	852.4	972.2	1094.3	1204.2	1300.9	1379.5
-40°	309.6	389.3	488.5	587.6	685.5	779.5	887.1	999.6	1113.1	1212.2	1300.9
-42.5°	273.8	349.9	434.7	528.2	621.9	712.7	800.3	904.5	1008.8	1113.1	1204.2
-45°	235.6	309.2	380.6	467.5	555.4	642.7	726.3	807.2	904.5	999.6	1094.3
-47.5°	195.9	266.6	334.7	404.7	487.4	569.1	649.6	726.3	800.3	887.1	972.2
-50°	157.0	221.7	287.2	350.1	417.9	494.1	569.1	642.7	712.7	779.5	852.4
-52.5°	123.4	175.4	237.2	297.4	355.2	417.9	487.4	555.4	621.9	685.5	745.3
-55°	88.9	135.6	185.7	242.4	297.4	350.1	404.7	467.5	528.2	587.6	644.6
-57.5°	64.6	97.0	139.7	185.7	237.2	287.2	334.7	380.6	434.7	488.5	540.3
-60°	46.3	66.7	97.0	135.6	175.4	221.7	266.6	309.2	349.9	389.3	436.5
-62.5°	30.0	46.3	64.6	88.9	123.4	157.0	195.9	235.6	273.8	309.6	343.7
-65°	24.5	29.4	42.3	58.6	74.4	103.3	132.9	161.4	194.9	228.1	259.7
-67.5°	18.8	23.3	27.7	34.2	48.5	62.4	75.8	101.1	125.7	149.2	173.3
-70°	15.5	17.5	21.0	24.8	28.5	34.6	46.5	58.0	69.0	82.8	102.7
-72.5°	12.6	14.3	16.0	17.7	20.8	23.9	26.9	29.8	36.6	45.8	54.5
-75°	10.1	11.2	12.6	14.0	15.4	16.8	18.3	20.8	23.1	25.4	27.6
-77.5°	8.0	8.9	9.8	10.6	11.5	12.6	13.7	14.7	15.7	16.7	17.6
-80°	6.2	6.6	7.3	7.9	8.6	9.2	9.9	10.5	11.0	11.7	12.4
-82.5°	4.9	5.2	5.5	5.8	6.1	6.4	6.7	7.2	7.6	8.0	8.4
-85°	3.5	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.1	5.3	5.4
-87.5°	1.8	1.9	2.0	2.2	2.3	2.4	2.6	2.7	2.8	2.9	3.0
-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: P731230 (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°
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°	3.1	3.2	3.3	3.4	3.4	3.5	3.6	3.6	3.7	3.7	3.7
85°	5.6	5.7	5.8	6.0	6.1	6.2	6.3	6.3	6.4	6.5	6.5
82.5°	8.7	9.1	9.4	9.7	10.0	10.2	10.4	10.6	10.8	11.0	11.1
80°	13.1	13.7	14.3	14.9	15.4	15.9	16.3	16.7	17.0	17.3	17.5
77.5°	19.0	20.6	22.1	23.5	24.8	25.9	27.0	27.9	28.7	29.4	30.0
75°	29.6	33.0	39.2	44.9	50.2	55.1	59.4	63.3	66.7	69.5	71.9
72.5°	62.8	70.5	79.5	92.9	105.2	116.5	126.6	135.6	143.4	150.1	155.6
70°	121.5	139.2	155.7	172.6	190.6	206.9	221.7	234.8	246.2	255.9	263.9
67.5°	200.1	225.4	249.1	271.1	291.1	309.2	325.5	340.0	352.7	363.4	372.3
65°	289.4	316.9	342.8	366.8	389.3	414.9	438.1	458.7	476.7	492.1	504.7
62.5°	376.0	411.4	447.7	481.5	512.7	541.5	567.8	591.2	611.7	629.1	643.4
60°	481.5	524.0	564.6	602.6	637.7	669.8	698.1	723.3	745.3	764.1	779.5
57.5°	590.3	637.7	681.8	722.3	759.7	794.1	829.4	863.7	893.8	919.4	940.5
55°	698.1	748.1	795.3	847.0	897.6	944.1	986.5	1025.7	1060.0	1089.3	1113.4
52.5°	802.3	868.3	931.5	991.3	1048.7	1101.4	1149.2	1186.0	1217.2	1243.8	1265.8
50°	928.5	1001.7	1073.0	1139.8	1194.3	1241.8	1285.0	1320.5	1348.7	1372.7	1392.6
47.5°	1056.9	1137.9	1204.8	1264.7	1317.9	1360.5	1399.3	1463.0	1650.2	1810.5	1943.1
45°	1180.3	1252.4	1318.2	1371.5	1421.3	1666.4	1923.2	2153.8	2326.1	2469.7	2588.6
42.5°	1284.7	1352.0	1412.6	1682.2	2009.7	2289.9	2518.3	2723.8	2845.0	2909.0	2962.0
40°	1372.6	1502.7	1898.9	2257.6	2547.1	2808.4	2909.3	3000.4	3082.4	3156.2	3217.5
37.5°	1588.9	2030.8	2405.2	2735.0	2902.4	3020.8	3134.0	3238.6	3331.9	3430.0	3511.7
35°	2075.1	2479.9	2822.2	2966.4	3105.2	3240.1	3372.6	3510.9	3634.0	3766.9	3885.1
32.5°	2479.9	2838.0	2998.8	3158.1	3312.5	3486.0	3650.0	3845.1	4022.2	4235.0	4465.0
30°	2822.2	2998.8	3176.0	3353.8	3555.5	3773.1	4007.3	4316.0	4658.5	4997.2	5389.8
27.5°	2966.4	3158.1	3353.8	3578.9	3837.4	4111.6	4560.4	5021.4	5602.2	6111.6	7336.7
25°	3105.2	3312.5	3555.5	3837.4	4171.6	4684.9	5324.3	6020.5	7649.8	9240.6	11897.8
22.5°	3240.1	3486.0	3773.1	4111.6	4684.9	5426.8	6458.6	8606.5	11839.5	15921.2	20383.6
20°	3372.6	3650.0	4007.3	4560.4	5324.3	6458.6	8930.9	13437.7	18808.8	26026.7	32689.8
17.5°	3510.9	3845.1	4316.0	5021.4	6020.5	8606.5	13437.7	20188.4	28952.4	38949.6	48324.2
15°	3634.0	4022.2	4658.5	5602.2	7649.8	11839.5	18808.8	28952.4	41096.7	53490.3	65447.5
12.5°	3766.9	4235.0	4997.2	6111.6	9240.6	15921.2	26026.7	38949.6	53490.3	68351.7	81218.8
10°	3885.1	4465.0	5389.8	7336.7	11897.8	20383.6	32689.8	48324.2	65447.5	81218.8	96568.7
7.5°	3978.7	4647.3	5702.3	8319.1	14441.0	24933.5	39559.8	57072.2	75197.3	92676.5	112303.1
5°	4046.3	4779.6	5929.6	9036.0	16305.0	28287.9	44663.9	63698.8	82500.1	102875.9	125325.3
2.5°	4087.3	4859.7	6067.6	9472.6	17443.8	30345.7	47813.4	67821.4	87098.1	109720.2	134883.2
0°	4101.0	4886.6	6113.9	9619.2	17826.9	31039.6	48878.7	69222.1	88671.0	112080.9	138323.0
-2.5°	4087.3	4859.7	6067.6	9472.6	17443.8	30345.7	47813.4	67821.4	87098.1	109720.2	134883.2
-5°	4046.3	4779.6	5929.6	9036.0	16305.0	28287.9	44663.9	63698.8	82500.1	102875.9	125325.3
-7.5°	3978.7	4647.3	5702.3	8319.1	14441.0	24933.5	39559.8	57072.2	75197.3	92676.5	112303.1
-10°	3885.1	4465.0	5389.8	7336.7	11897.8	20383.6	32689.8	48324.2	65447.5	81218.8	96568.7
-12.5°	3766.9	4235.0	4997.2	6111.6	9240.6	15921.2	26026.7	38949.6	53490.3	68351.7	81218.8
-15°	3634.0	4022.2	4658.5	5602.2	7649.8	11839.5	18808.8	28952.4	41096.7	53490.3	65447.5
-17.5°	3510.9	3845.1	4316.0	5021.4	6020.5	8606.5	13437.7	20188.4	28952.4	38949.6	48324.2
-20°	3372.6	3650.0	4007.3	4560.4	5324.3	6458.6	8930.9	13437.7	18808.8	26026.7	32689.8



REPORT NUMBER: P731230 (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°	3240.1	3486.0	3773.1	4111.6	4684.9	5426.8	6458.6	8606.5	11839.5	15921.2	20383.6
-25°	3105.2	3312.5	3555.5	3837.4	4171.6	4684.9	5324.3	6020.5	7649.8	9240.6	11897.8
-27.5°	2966.4	3158.1	3353.8	3578.9	3837.4	4111.6	4560.4	5021.4	5602.2	6111.6	7336.7
-30°	2822.2	2998.8	3176.0	3353.8	3555.5	3773.1	4007.3	4316.0	4658.5	4997.2	5389.8
-32.5°	2479.9	2838.0	2998.8	3158.1	3312.5	3486.0	3650.0	3845.1	4022.2	4235.0	4465.0
-35°	2075.1	2479.9	2822.2	2966.4	3105.2	3240.1	3372.6	3510.9	3634.0	3766.9	3885.1
-37.5°	1588.9	2030.8	2405.2	2735.0	2902.4	3020.8	3134.0	3238.6	3331.9	3430.0	3511.7
-40°	1372.6	1502.7	1898.9	2257.6	2547.1	2808.4	2909.3	3000.4	3082.4	3156.2	3217.5
-42.5°	1284.7	1352.0	1412.6	1682.2	2009.7	2289.9	2518.3	2723.8	2845.0	2909.0	2962.0
-45°	1180.3	1252.4	1318.2	1371.5	1421.3	1666.4	1923.2	2153.8	2326.1	2469.7	2588.6
-47.5°	1056.9	1137.9	1204.8	1264.7	1317.9	1360.5	1399.3	1463.0	1650.2	1810.5	1943.1
-50°	928.5	1001.7	1073.0	1139.8	1194.3	1241.8	1285.0	1320.5	1348.7	1372.7	1392.6
-52.5°	802.3	868.3	931.5	991.3	1048.7	1101.4	1149.2	1186.0	1217.2	1243.8	1265.8
-55°	698.1	748.1	795.3	847.0	897.6	944.1	986.5	1025.7	1060.0	1089.3	1113.4
-57.5°	590.3	637.7	681.8	722.3	759.7	794.1	829.4	863.7	893.8	919.4	940.5
-60°	481.5	524.0	564.6	602.6	637.7	669.8	698.1	723.3	745.3	764.1	779.5
-62.5°	376.0	411.4	447.7	481.5	512.7	541.5	567.8	591.2	611.7	629.1	643.4
-65°	289.4	316.9	342.8	366.8	389.3	414.9	438.1	458.7	476.7	492.1	504.7
-67.5°	200.1	225.4	249.1	271.1	291.1	309.2	325.5	340.0	352.7	363.4	372.3
-70°	121.5	139.2	155.7	172.6	190.6	206.9	221.7	234.8	246.2	255.9	263.9
-72.5°	62.8	70.5	79.5	92.9	105.2	116.5	126.6	135.6	143.4	150.1	155.6
-75°	29.6	33.0	39.2	44.9	50.2	55.1	59.4	63.3	66.7	69.5	71.9
-77.5°	19.0	20.6	22.1	23.5	24.8	25.9	27.0	27.9	28.7	29.4	30.0
-80°	13.1	13.7	14.3	14.9	15.4	15.9	16.3	16.7	17.0	17.3	17.5
-82.5°	8.7	9.1	9.4	9.7	10.0	10.2	10.4	10.6	10.8	11.0	11.1
-85°	5.6	5.7	5.8	6.0	6.1	6.2	6.3	6.3	6.4	6.5	6.5
-87.5°	3.1	3.2	3.3	3.4	3.4	3.5	3.6	3.6	3.7	3.7	3.7
-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: P731230 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-3S-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°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.7	3.7	3.7	3.6
85°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.5	6.5	6.4	6.3
82.5°	11.2	11.2	11.3	11.3	11.3	11.2	11.2	11.1	11.0	10.8	10.6
80°	17.7	17.8	17.9	17.9	17.9	17.8	17.7	17.5	17.3	17.0	16.7
77.5°	30.4	30.7	30.9	31.0	30.9	30.7	30.4	30.0	29.4	28.7	27.9
75°	73.7	75.0	75.8	76.1	75.8	75.0	73.7	71.9	69.5	66.7	63.3
72.5°	159.9	162.9	164.8	165.4	164.8	162.9	159.9	155.6	150.1	143.4	135.6
70°	270.2	274.6	277.3	278.2	277.3	274.6	270.2	263.9	255.9	246.2	234.8
67.5°	379.2	384.1	387.1	388.1	387.1	384.1	379.2	372.3	363.4	352.7	340.0
65°	514.5	521.5	525.8	527.2	525.8	521.5	514.5	504.7	492.1	476.7	458.7
62.5°	654.6	662.7	667.5	669.1	667.5	662.7	654.6	643.4	629.1	611.7	591.2
60°	791.6	800.3	805.5	807.2	805.5	800.3	791.6	779.5	764.1	745.3	723.3
57.5°	957.0	968.8	975.9	978.3	975.9	968.8	957.0	940.5	919.4	893.8	863.7
55°	1132.3	1145.9	1154.1	1156.8	1154.1	1145.9	1132.3	1113.4	1089.3	1060.0	1025.7
52.5°	1283.0	1295.4	1302.8	1305.3	1302.8	1295.4	1283.0	1265.8	1243.8	1217.2	1186.0
50°	1408.2	1419.4	1426.1	1428.4	1426.1	1419.4	1408.2	1392.6	1372.7	1348.7	1320.5
47.5°	2047.2	2122.0	2167.0	2182.1	2167.0	2122.0	2047.2	1943.1	1810.5	1650.2	1463.0
45°	2681.9	2749.1	2789.7	2803.2	2789.7	2749.1	2681.9	2588.6	2469.7	2326.1	2153.8
42.5°	3003.7	3033.7	3051.8	3057.9	3051.8	3033.7	3003.7	2962.0	2909.0	2845.0	2723.8
40°	3265.7	3300.5	3321.6	3328.6	3321.6	3300.5	3265.7	3217.5	3156.2	3082.4	3000.4
37.5°	3576.1	3622.7	3650.9	3660.3	3650.9	3622.7	3576.1	3511.7	3430.0	3331.9	3238.6
35°	3978.7	4046.3	4087.3	4101.0	4087.3	4046.3	3978.7	3885.1	3766.9	3634.0	3510.9
32.5°	4647.3	4779.6	4859.7	4886.6	4859.7	4779.6	4647.3	4465.0	4235.0	4022.2	3845.1
30°	5702.3	5929.6	6067.6	6113.9	6067.6	5929.6	5702.3	5389.8	4997.2	4658.5	4316.0
27.5°	8319.1	9036.0	9472.6	9619.2	9472.6	9036.0	8319.1	7336.7	6111.6	5602.2	5021.4
25°	14441.0	16305.0	17443.8	17826.9	17443.8	16305.0	14441.0	11897.8	9240.6	7649.8	6020.5
22.5°	24933.5	28287.9	30345.7	31039.6	30345.7	28287.9	24933.5	20383.6	15921.2	11839.5	8606.5
20°	39559.8	44663.9	47813.4	48878.7	47813.4	44663.9	39559.8	32689.8	26026.7	18808.8	13437.7
17.5°	57072.2	63698.8	67821.4	69222.1	67821.4	63698.8	57072.2	48324.2	38949.6	28952.4	20188.4
15°	75197.3	82500.1	87098.1	88671.0	87098.1	82500.1	75197.3	65447.5	53490.3	41096.7	28952.4
12.5°	92676.5	102875.9	109720.2	112080.9	109720.2	102875.9	92676.5	81218.8	68351.7	53490.3	38949.6
10°	112303.1	125325.3	134883.2	138323.0	134883.2	125325.3	112303.1	96568.7	81218.8	65447.5	48324.2
7.5°	131646.0	149225.5	158949.7	161836.8	158949.7	149225.5	131646.0	112303.1	92676.5	75197.3	57072.2
5°	149225.5	164938.4	173932.4	177044.0	173932.4	164938.4	149225.5	125325.3	102875.9	82500.1	63698.8
2.5°	158949.7	173932.4	186417.1	194888.8	186417.1	173932.4	158949.7	134883.2	109720.2	87098.1	67821.4
0°	161836.8	177044.0	194888.8	206776.5	194888.8	177044.0	161836.8	138323.0	112080.9	88671.0	69222.1
-2.5°	158949.7	173932.4	186417.1	194888.8	186417.1	173932.4	158949.7	134883.2	109720.2	87098.1	67821.4
-5°	149225.5	164938.4	173932.4	177044.0	173932.4	164938.4	149225.5	125325.3	102875.9	82500.1	63698.8
-7.5°	131646.0	149225.5	158949.7	161836.8	158949.7	149225.5	131646.0	112303.1	92676.5	75197.3	57072.2
-10°	112303.1	125325.3	134883.2	138323.0	134883.2	125325.3	112303.1	96568.7	81218.8	65447.5	48324.2
-12.5°	92676.5	102875.9	109720.2	112080.9	109720.2	102875.9	92676.5	81218.8	68351.7	53490.3	38949.6
-15°	75197.3	82500.1	87098.1	88671.0	87098.1	82500.1	75197.3	65447.5	53490.3	41096.7	28952.4
-17.5°	57072.2	63698.8	67821.4	69222.1	67821.4	63698.8	57072.2	48324.2	38949.6	28952.4	20188.4
-20°	39559.8	44663.9	47813.4	48878.7	47813.4	44663.9	39559.8	32689.8	26026.7	18808.8	13437.7



REPORT NUMBER: P731230 (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°	24933.5	28287.9	30345.7	31039.6	30345.7	28287.9	24933.5	20383.6	15921.2	11839.5	8606.5
-25°	14441.0	16305.0	17443.8	17826.9	17443.8	16305.0	14441.0	11897.8	9240.6	7649.8	6020.5
-27.5°	8319.1	9036.0	9472.6	9619.2	9472.6	9036.0	8319.1	7336.7	6111.6	5602.2	5021.4
-30°	5702.3	5929.6	6067.6	6113.9	6067.6	5929.6	5702.3	5389.8	4997.2	4658.5	4316.0
-32.5°	4647.3	4779.6	4859.7	4886.6	4859.7	4779.6	4647.3	4465.0	4235.0	4022.2	3845.1
-35°	3978.7	4046.3	4087.3	4101.0	4087.3	4046.3	3978.7	3885.1	3766.9	3634.0	3510.9
-37.5°	3576.1	3622.7	3650.9	3660.3	3650.9	3622.7	3576.1	3511.7	3430.0	3331.9	3238.6
-40°	3265.7	3300.5	3321.6	3328.6	3321.6	3300.5	3265.7	3217.5	3156.2	3082.4	3000.4
-42.5°	3003.7	3033.7	3051.8	3057.9	3051.8	3033.7	3003.7	2962.0	2909.0	2845.0	2723.8
-45°	2681.9	2749.1	2789.7	2803.2	2789.7	2749.1	2681.9	2588.6	2469.7	2326.1	2153.8
-47.5°	2047.2	2122.0	2167.0	2182.1	2167.0	2122.0	2047.2	1943.1	1810.5	1650.2	1463.0
-50°	1408.2	1419.4	1426.1	1428.4	1426.1	1419.4	1408.2	1392.6	1372.7	1348.7	1320.5
-52.5°	1283.0	1295.4	1302.8	1305.3	1302.8	1295.4	1283.0	1265.8	1243.8	1217.2	1186.0
-55°	1132.3	1145.9	1154.1	1156.8	1154.1	1145.9	1132.3	1113.4	1089.3	1060.0	1025.7
-57.5°	957.0	968.8	975.9	978.3	975.9	968.8	957.0	940.5	919.4	893.8	863.7
-60°	791.6	800.3	805.5	807.2	805.5	800.3	791.6	779.5	764.1	745.3	723.3
-62.5°	654.6	662.7	667.5	669.1	667.5	662.7	654.6	643.4	629.1	611.7	591.2
-65°	514.5	521.5	525.8	527.2	525.8	521.5	514.5	504.7	492.1	476.7	458.7
-67.5°	379.2	384.1	387.1	388.1	387.1	384.1	379.2	372.3	363.4	352.7	340.0
-70°	270.2	274.6	277.3	278.2	277.3	274.6	270.2	263.9	255.9	246.2	234.8
-72.5°	159.9	162.9	164.8	165.4	164.8	162.9	159.9	155.6	150.1	143.4	135.6
-75°	73.7	75.0	75.8	76.1	75.8	75.0	73.7	71.9	69.5	66.7	63.3
-77.5°	30.4	30.7	30.9	31.0	30.9	30.7	30.4	30.0	29.4	28.7	27.9
-80°	17.7	17.8	17.9	17.9	17.9	17.8	17.7	17.5	17.3	17.0	16.7
-82.5°	11.2	11.2	11.3	11.3	11.3	11.2	11.2	11.1	11.0	10.8	10.6
-85°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.5	6.5	6.4	6.3
-87.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.7	3.7	3.7	3.6
-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°	3.6	3.5	3.4	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7
85°	6.3	6.2	6.1	6.0	5.8	5.7	5.6	5.4	5.3	5.1	5.0
82.5°	10.4	10.2	10.0	9.7	9.4	9.1	8.7	8.4	8.0	7.6	7.2
80°	16.3	15.9	15.4	14.9	14.3	13.7	13.1	12.4	11.7	11.0	10.5
77.5°	27.0	25.9	24.8	23.5	22.1	20.6	19.0	17.6	16.7	15.7	14.7
75°	59.4	55.1	50.2	44.9	39.2	33.0	29.6	27.6	25.4	23.1	20.8
72.5°	126.6	116.5	105.2	92.9	79.5	70.5	62.8	54.5	45.8	36.6	29.8
70°	221.7	206.9	190.6	172.6	155.7	139.2	121.5	102.7	82.8	69.0	58.0
67.5°	325.5	309.2	291.1	271.1	249.1	225.4	200.1	173.3	149.2	125.7	101.1
65°	438.1	414.9	389.3	366.8	342.8	316.9	289.4	259.7	228.1	194.9	161.4
62.5°	567.8	541.5	512.7	481.5	447.7	411.4	376.0	343.7	309.6	273.8	235.6
60°	698.1	669.8	637.7	602.6	564.6	524.0	481.5	436.5	389.3	349.9	309.2
57.5°	829.4	794.1	759.7	722.3	681.8	637.7	590.3	540.3	488.5	434.7	380.6
55°	986.5	944.1	897.6	847.0	795.3	748.1	698.1	644.6	587.6	528.2	467.5
52.5°	1149.2	1101.4	1048.7	991.3	931.5	868.3	802.3	745.3	685.5	621.9	555.4
50°	1285.0	1241.8	1194.3	1139.8	1073.0	1001.7	928.5	852.4	779.5	712.7	642.7
47.5°	1399.3	1360.5	1317.9	1264.7	1204.8	1137.9	1056.9	972.2	887.1	800.3	726.3
45°	1923.2	1666.4	1421.3	1371.5	1318.2	1252.4	1180.3	1094.3	999.6	904.5	807.2
42.5°	2518.3	2289.9	2009.7	1682.2	1412.6	1352.0	1284.7	1204.2	1113.1	1008.8	904.5
40°	2909.3	2808.4	2547.1	2257.6	1898.9	1502.7	1372.6	1300.9	1212.2	1113.1	999.6
37.5°	3134.0	3020.8	2902.4	2735.0	2405.2	2030.8	1588.9	1379.5	1300.9	1204.2	1094.3
35°	3372.6	3240.1	3105.2	2966.4	2822.2	2479.9	2075.1	1588.9	1372.6	1284.7	1180.3
32.5°	3650.0	3486.0	3312.5	3158.1	2998.8	2838.0	2479.9	2030.8	1502.7	1352.0	1252.4
30°	4007.3	3773.1	3555.5	3353.8	3176.0	2998.8	2822.2	2405.2	1898.9	1412.6	1318.2
27.5°	4560.4	4111.6	3837.4	3578.9	3353.8	3158.1	2966.4	2735.0	2257.6	1682.2	1371.5
25°	5324.3	4684.9	4171.6	3837.4	3555.5	3312.5	3105.2	2902.4	2547.1	2009.7	1421.3
22.5°	6458.6	5426.8	4684.9	4111.6	3773.1	3486.0	3240.1	3020.8	2808.4	2289.9	1666.4
20°	8930.9	6458.6	5324.3	4560.4	4007.3	3650.0	3372.6	3134.0	2909.3	2518.3	1923.2
17.5°	13437.7	8606.5	6020.5	5021.4	4316.0	3845.1	3510.9	3238.6	3000.4	2723.8	2153.8
15°	18808.8	11839.5	7649.8	5602.2	4658.5	4022.2	3634.0	3331.9	3082.4	2845.0	2326.1
12.5°	26026.7	15921.2	9240.6	6111.6	4997.2	4235.0	3766.9	3430.0	3156.2	2909.0	2469.7
10°	32689.8	20383.6	11897.8	7336.7	5389.8	4465.0	3885.1	3511.7	3217.5	2962.0	2588.6
7.5°	39559.8	24933.5	14441.0	8319.1	5702.3	4647.3	3978.7	3576.1	3265.7	3003.7	2681.9
5°	44663.9	28287.9	16305.0	9036.0	5929.6	4779.6	4046.3	3622.7	3300.5	3033.7	2749.1
2.5°	47813.4	30345.7	17443.8	9472.6	6067.6	4859.7	4087.3	3650.9	3321.6	3051.8	2789.7
0°	48878.7	31039.6	17826.9	9619.2	6113.9	4886.6	4101.0	3660.3	3328.6	3057.9	2803.2
-2.5°	47813.4	30345.7	17443.8	9472.6	6067.6	4859.7	4087.3	3650.9	3321.6	3051.8	2789.7
-5°	44663.9	28287.9	16305.0	9036.0	5929.6	4779.6	4046.3	3622.7	3300.5	3033.7	2749.1
-7.5°	39559.8	24933.5	14441.0	8319.1	5702.3	4647.3	3978.7	3576.1	3265.7	3003.7	2681.9
-10°	32689.8	20383.6	11897.8	7336.7	5389.8	4465.0	3885.1	3511.7	3217.5	2962.0	2588.6
-12.5°	26026.7	15921.2	9240.6	6111.6	4997.2	4235.0	3766.9	3430.0	3156.2	2909.0	2469.7
-15°	18808.8	11839.5	7649.8	5602.2	4658.5	4022.2	3634.0	3331.9	3082.4	2845.0	2326.1
-17.5°	13437.7	8606.5	6020.5	5021.4	4316.0	3845.1	3510.9	3238.6	3000.4	2723.8	2153.8
-20°	8930.9	6458.6	5324.3	4560.4	4007.3	3650.0	3372.6	3134.0	2909.3	2518.3	1923.2



REPORT NUMBER: P731230 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-3S-HEG

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	6458.6	5426.8	4684.9	4111.6	3773.1	3486.0	3240.1	3020.8	2808.4	2289.9	1666.4
-25°	5324.3	4684.9	4171.6	3837.4	3555.5	3312.5	3105.2	2902.4	2547.1	2009.7	1421.3
-27.5°	4560.4	4111.6	3837.4	3578.9	3353.8	3158.1	2966.4	2735.0	2257.6	1682.2	1371.5
-30°	4007.3	3773.1	3555.5	3353.8	3176.0	2998.8	2822.2	2405.2	1898.9	1412.6	1318.2
-32.5°	3650.0	3486.0	3312.5	3158.1	2998.8	2838.0	2479.9	2030.8	1502.7	1352.0	1252.4
-35°	3372.6	3240.1	3105.2	2966.4	2822.2	2479.9	2075.1	1588.9	1372.6	1284.7	1180.3
-37.5°	3134.0	3020.8	2902.4	2735.0	2405.2	2030.8	1588.9	1379.5	1300.9	1204.2	1094.3
-40°	2909.3	2808.4	2547.1	2257.6	1898.9	1502.7	1372.6	1300.9	1212.2	1113.1	999.6
-42.5°	2518.3	2289.9	2009.7	1682.2	1412.6	1352.0	1284.7	1204.2	1113.1	1008.8	904.5
-45°	1923.2	1666.4	1421.3	1371.5	1318.2	1252.4	1180.3	1094.3	999.6	904.5	807.2
-47.5°	1399.3	1360.5	1317.9	1264.7	1204.8	1137.9	1056.9	972.2	887.1	800.3	726.3
-50°	1285.0	1241.8	1194.3	1139.8	1073.0	1001.7	928.5	852.4	779.5	712.7	642.7
-52.5°	1149.2	1101.4	1048.7	991.3	931.5	868.3	802.3	745.3	685.5	621.9	555.4
-55°	986.5	944.1	897.6	847.0	795.3	748.1	698.1	644.6	587.6	528.2	467.5
-57.5°	829.4	794.1	759.7	722.3	681.8	637.7	590.3	540.3	488.5	434.7	380.6
-60°	698.1	669.8	637.7	602.6	564.6	524.0	481.5	436.5	389.3	349.9	309.2
-62.5°	567.8	541.5	512.7	481.5	447.7	411.4	376.0	343.7	309.6	273.8	235.6
-65°	438.1	414.9	389.3	366.8	342.8	316.9	289.4	259.7	228.1	194.9	161.4
-67.5°	325.5	309.2	291.1	271.1	249.1	225.4	200.1	173.3	149.2	125.7	101.1
-70°	221.7	206.9	190.6	172.6	155.7	139.2	121.5	102.7	82.8	69.0	58.0
-72.5°	126.6	116.5	105.2	92.9	79.5	70.5	62.8	54.5	45.8	36.6	29.8
-75°	59.4	55.1	50.2	44.9	39.2	33.0	29.6	27.6	25.4	23.1	20.8
-77.5°	27.0	25.9	24.8	23.5	22.1	20.6	19.0	17.6	16.7	15.7	14.7
-80°	16.3	15.9	15.4	14.9	14.3	13.7	13.1	12.4	11.7	11.0	10.5
-82.5°	10.4	10.2	10.0	9.7	9.4	9.1	8.7	8.4	8.0	7.6	7.2
-85°	6.3	6.2	6.1	6.0	5.8	5.7	5.6	5.4	5.3	5.1	5.0
-87.5°	3.6	3.5	3.4	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7
-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: P731230 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-3S-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°	2.6	2.4	2.3	2.2	2.0	1.9	1.8	1.6	1.5	1.3	1.1
85°	4.8	4.6	4.4	4.2	4.0	3.8	3.5	3.2	2.9	2.6	2.3
82.5°	6.7	6.4	6.1	5.8	5.5	5.2	4.9	4.5	4.2	3.9	3.4
80°	9.9	9.2	8.6	7.9	7.3	6.6	6.2	5.7	5.3	4.8	4.4
77.5°	13.7	12.6	11.5	10.6	9.8	8.9	8.0	7.1	6.3	5.8	5.2
75°	18.3	16.8	15.4	14.0	12.6	11.2	10.1	9.0	7.9	6.7	6.0
72.5°	26.9	23.9	20.8	17.7	16.0	14.3	12.6	10.9	9.6	8.3	7.0
70°	46.5	34.6	28.5	24.8	21.0	17.5	15.5	13.4	11.4	9.8	8.3
67.5°	75.8	62.4	48.5	34.2	27.7	23.3	18.8	16.1	13.7	11.4	9.6
65°	132.9	103.3	74.4	58.6	42.3	29.4	24.5	19.4	16.1	13.4	10.9
62.5°	195.9	157.0	123.4	88.9	64.6	46.3	30.0	24.5	18.8	15.5	12.6
60°	266.6	221.7	175.4	135.6	97.0	66.7	46.3	29.4	23.3	17.5	14.3
57.5°	334.7	287.2	237.2	185.7	139.7	97.0	64.6	42.3	27.7	21.0	16.0
55°	404.7	350.1	297.4	242.4	185.7	135.6	88.9	58.6	34.2	24.8	17.7
52.5°	487.4	417.9	355.2	297.4	237.2	175.4	123.4	74.4	48.5	28.5	20.8
50°	569.1	494.1	417.9	350.1	287.2	221.7	157.0	103.3	62.4	34.6	23.9
47.5°	649.6	569.1	487.4	404.7	334.7	266.6	195.9	132.9	75.8	46.5	26.9
45°	726.3	642.7	555.4	467.5	380.6	309.2	235.6	161.4	101.1	58.0	29.8
42.5°	800.3	712.7	621.9	528.2	434.7	349.9	273.8	194.9	125.7	69.0	36.6
40°	887.1	779.5	685.5	587.6	488.5	389.3	309.6	228.1	149.2	82.8	45.8
37.5°	972.2	852.4	745.3	644.6	540.3	436.5	343.7	259.7	173.3	102.7	54.5
35°	1056.9	928.5	802.3	698.1	590.3	481.5	376.0	289.4	200.1	121.5	62.8
32.5°	1137.9	1001.7	868.3	748.1	637.7	524.0	411.4	316.9	225.4	139.2	70.5
30°	1204.8	1073.0	931.5	795.3	681.8	564.6	447.7	342.8	249.1	155.7	79.5
27.5°	1264.7	1139.8	991.3	847.0	722.3	602.6	481.5	366.8	271.1	172.6	92.9
25°	1317.9	1194.3	1048.7	897.6	759.7	637.7	512.7	389.3	291.1	190.6	105.2
22.5°	1360.5	1241.8	1101.4	944.1	794.1	669.8	541.5	414.9	309.2	206.9	116.5
20°	1399.3	1285.0	1149.2	986.5	829.4	698.1	567.8	438.1	325.5	221.7	126.6
17.5°	1463.0	1320.5	1186.0	1025.7	863.7	723.3	591.2	458.7	340.0	234.8	135.6
15°	1650.2	1348.7	1217.2	1060.0	893.8	745.3	611.7	476.7	352.7	246.2	143.4
12.5°	1810.5	1372.7	1243.8	1089.3	919.4	764.1	629.1	492.1	363.4	255.9	150.1
10°	1943.1	1392.6	1265.8	1113.4	940.5	779.5	643.4	504.7	372.3	263.9	155.6
7.5°	2047.2	1408.2	1283.0	1132.3	957.0	791.6	654.6	514.5	379.2	270.2	159.9
5°	2122.0	1419.4	1295.4	1145.9	968.8	800.3	662.7	521.5	384.1	274.6	162.9
2.5°	2167.0	1426.1	1302.8	1154.1	975.9	805.5	667.5	525.8	387.1	277.3	164.8
0°	<b>2182.1</b>	<b>1428.4</b>	<b>1305.3</b>	<b>1156.8</b>	<b>978.3</b>	<b>807.2</b>	<b>669.1</b>	<b>527.2</b>	<b>388.1</b>	<b>278.2</b>	<b>165.4</b>
-2.5°	2167.0	1426.1	1302.8	1154.1	975.9	805.5	667.5	525.8	387.1	277.3	164.8
-5°	2122.0	1419.4	1295.4	1145.9	968.8	800.3	662.7	521.5	384.1	274.6	162.9
-7.5°	2047.2	1408.2	1283.0	1132.3	957.0	791.6	654.6	514.5	379.2	270.2	159.9
-10°	1943.1	1392.6	1265.8	1113.4	940.5	779.5	643.4	504.7	372.3	263.9	155.6
-12.5°	1810.5	1372.7	1243.8	1089.3	919.4	764.1	629.1	492.1	363.4	255.9	150.1
-15°	1650.2	1348.7	1217.2	1060.0	893.8	745.3	611.7	476.7	352.7	246.2	143.4
-17.5°	1463.0	1320.5	1186.0	1025.7	863.7	723.3	591.2	458.7	340.0	234.8	135.6
-20°	1399.3	1285.0	1149.2	986.5	829.4	698.1	567.8	438.1	325.5	221.7	126.6



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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°	1360.5	1241.8	1101.4	944.1	794.1	669.8	541.5	414.9	309.2	206.9	116.5
-25°	1317.9	1194.3	1048.7	897.6	759.7	637.7	512.7	389.3	291.1	190.6	105.2
-27.5°	1264.7	1139.8	991.3	847.0	722.3	602.6	481.5	366.8	271.1	172.6	92.9
-30°	1204.8	1073.0	931.5	795.3	681.8	564.6	447.7	342.8	249.1	155.7	79.5
-32.5°	1137.9	1001.7	868.3	748.1	637.7	524.0	411.4	316.9	225.4	139.2	70.5
-35°	1056.9	928.5	802.3	698.1	590.3	481.5	376.0	289.4	200.1	121.5	62.8
-37.5°	972.2	852.4	745.3	644.6	540.3	436.5	343.7	259.7	173.3	102.7	54.5
-40°	887.1	779.5	685.5	587.6	488.5	389.3	309.6	228.1	149.2	82.8	45.8
-42.5°	800.3	712.7	621.9	528.2	434.7	349.9	273.8	194.9	125.7	69.0	36.6
-45°	726.3	642.7	555.4	467.5	380.6	309.2	235.6	161.4	101.1	58.0	29.8
-47.5°	649.6	569.1	487.4	404.7	334.7	266.6	195.9	132.9	75.8	46.5	26.9
-50°	569.1	494.1	417.9	350.1	287.2	221.7	157.0	103.3	62.4	34.6	23.9
-52.5°	487.4	417.9	355.2	297.4	237.2	175.4	123.4	74.4	48.5	28.5	20.8
-55°	404.7	350.1	297.4	242.4	185.7	135.6	88.9	58.6	34.2	24.8	17.7
-57.5°	334.7	287.2	237.2	185.7	139.7	97.0	64.6	42.3	27.7	21.0	16.0
-60°	266.6	221.7	175.4	135.6	97.0	66.7	46.3	29.4	23.3	17.5	14.3
-62.5°	195.9	157.0	123.4	88.9	64.6	46.3	30.0	24.5	18.8	15.5	12.6
-65°	132.9	103.3	74.4	58.6	42.3	29.4	24.5	19.4	16.1	13.4	10.9
-67.5°	75.8	62.4	48.5	34.2	27.7	23.3	18.8	16.1	13.7	11.4	9.6
-70°	46.5	34.6	28.5	24.8	21.0	17.5	15.5	13.4	11.4	9.8	8.3
-72.5°	26.9	23.9	20.8	17.7	16.0	14.3	12.6	10.9	9.6	8.3	7.0
-75°	18.3	16.8	15.4	14.0	12.6	11.2	10.1	9.0	7.9	6.7	6.0
-77.5°	13.7	12.6	11.5	10.6	9.8	8.9	8.0	7.1	6.3	5.8	5.2
-80°	9.9	9.2	8.6	7.9	7.3	6.6	6.2	5.7	5.3	4.8	4.4
-82.5°	6.7	6.4	6.1	5.8	5.5	5.2	4.9	4.5	4.2	3.9	3.4
-85°	4.8	4.6	4.4	4.2	4.0	3.8	3.5	3.2	2.9	2.6	2.3
-87.5°	2.6	2.4	2.3	2.2	2.0	1.9	1.8	1.6	1.5	1.3	1.1
-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°	1.0	0.8	0.7	0.5	0.3	0.2	0.0
85°	2.0	1.6	1.3	1.0	0.7	0.3	0.0
82.5°	2.9	2.5	2.0	1.5	1.0	0.5	0.0
80°	3.9	3.3	2.6	2.0	1.3	0.7	0.0
77.5°	4.6	4.0	3.3	2.5	1.6	0.8	0.0
75°	5.3	4.6	3.9	2.9	2.0	1.0	0.0
72.5°	6.0	5.2	4.4	3.4	2.3	1.1	0.0
70°	6.7	5.8	4.8	3.9	2.6	1.3	0.0
67.5°	7.9	6.3	5.3	4.2	2.9	1.5	0.0
65°	9.0	7.1	5.7	4.5	3.2	1.6	0.0
62.5°	10.1	8.0	6.2	4.9	3.5	1.8	0.0
60°	11.2	8.9	6.6	5.2	3.8	1.9	0.0
57.5°	12.6	9.8	7.3	5.5	4.0	2.0	0.0
55°	14.0	10.6	7.9	5.8	4.2	2.2	0.0
52.5°	15.4	11.5	8.6	6.1	4.4	2.3	0.0
50°	16.8	12.6	9.2	6.4	4.6	2.4	0.0
47.5°	18.3	13.7	9.9	6.7	4.8	2.6	0.0
45°	20.8	14.7	10.5	7.2	5.0	2.7	0.0
42.5°	23.1	15.7	11.0	7.6	5.1	2.8	0.0
40°	25.4	16.7	11.7	8.0	5.3	2.9	0.0
37.5°	27.6	17.6	12.4	8.4	5.4	3.0	0.0
35°	29.6	19.0	13.1	8.7	5.6	3.1	0.0
32.5°	33.0	20.6	13.7	9.1	5.7	3.2	0.0
30°	39.2	22.1	14.3	9.4	5.8	3.3	0.0
27.5°	44.9	23.5	14.9	9.7	6.0	3.4	0.0
25°	50.2	24.8	15.4	10.0	6.1	3.4	0.0
22.5°	55.1	25.9	15.9	10.2	6.2	3.5	0.0
20°	59.4	27.0	16.3	10.4	6.3	3.6	0.0
17.5°	63.3	27.9	16.7	10.6	6.3	3.6	0.0
15°	66.7	28.7	17.0	10.8	6.4	3.7	0.0
12.5°	69.5	29.4	17.3	11.0	6.5	3.7	0.0
10°	71.9	30.0	17.5	11.1	6.5	3.7	0.0
7.5°	73.7	30.4	17.7	11.2	6.6	3.8	0.0
5°	75.0	30.7	17.8	11.2	6.6	3.8	0.0
2.5°	75.8	30.9	17.9	11.3	6.6	3.8	0.0
0°	76.1	31.0	17.9	11.3	6.6	3.8	0.0
-2.5°	75.8	30.9	17.9	11.3	6.6	3.8	0.0
-5°	75.0	30.7	17.8	11.2	6.6	3.8	0.0
-7.5°	73.7	30.4	17.7	11.2	6.6	3.8	0.0
-10°	71.9	30.0	17.5	11.1	6.5	3.7	0.0
-12.5°	69.5	29.4	17.3	11.0	6.5	3.7	0.0
-15°	66.7	28.7	17.0	10.8	6.4	3.7	0.0
-17.5°	63.3	27.9	16.7	10.6	6.3	3.6	0.0
-20°	59.4	27.0	16.3	10.4	6.3	3.6	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	55.1	25.9	15.9	10.2	6.2	3.5	0.0
-25°	50.2	24.8	15.4	10.0	6.1	3.4	0.0
-27.5°	44.9	23.5	14.9	9.7	6.0	3.4	0.0
-30°	39.2	22.1	14.3	9.4	5.8	3.3	0.0
-32.5°	33.0	20.6	13.7	9.1	5.7	3.2	0.0
-35°	29.6	19.0	13.1	8.7	5.6	3.1	0.0
-37.5°	27.6	17.6	12.4	8.4	5.4	3.0	0.0
-40°	25.4	16.7	11.7	8.0	5.3	2.9	0.0
-42.5°	23.1	15.7	11.0	7.6	5.1	2.8	0.0
-45°	20.8	14.7	10.5	7.2	5.0	2.7	0.0
-47.5°	18.3	13.7	9.9	6.7	4.8	2.6	0.0
-50°	16.8	12.6	9.2	6.4	4.6	2.4	0.0
-52.5°	15.4	11.5	8.6	6.1	4.4	2.3	0.0
-55°	14.0	10.6	7.9	5.8	4.2	2.2	0.0
-57.5°	12.6	9.8	7.3	5.5	4.0	2.0	0.0
-60°	11.2	8.9	6.6	5.2	3.8	1.9	0.0
-62.5°	10.1	8.0	6.2	4.9	3.5	1.8	0.0
-65°	9.0	7.1	5.7	4.5	3.2	1.6	0.0
-67.5°	7.9	6.3	5.3	4.2	2.9	1.5	0.0
-70°	6.7	5.8	4.8	3.9	2.6	1.3	0.0
-72.5°	6.0	5.2	4.4	3.4	2.3	1.1	0.0
-75°	5.3	4.6	3.9	2.9	2.0	1.0	0.0
-77.5°	4.6	4.0	3.3	2.5	1.6	0.8	0.0
-80°	3.9	3.3	2.6	2.0	1.3	0.7	0.0
-82.5°	2.9	2.5	2.0	1.5	1.0	0.5	0.0
-85°	2.0	1.6	1.3	1.0	0.7	0.3	0.0
-87.5°	1.0	0.8	0.7	0.5	0.3	0.2	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

