

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: P701397 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-40-80-1S-HEG-S**

Issue Date: 8/15/2023

Test Information

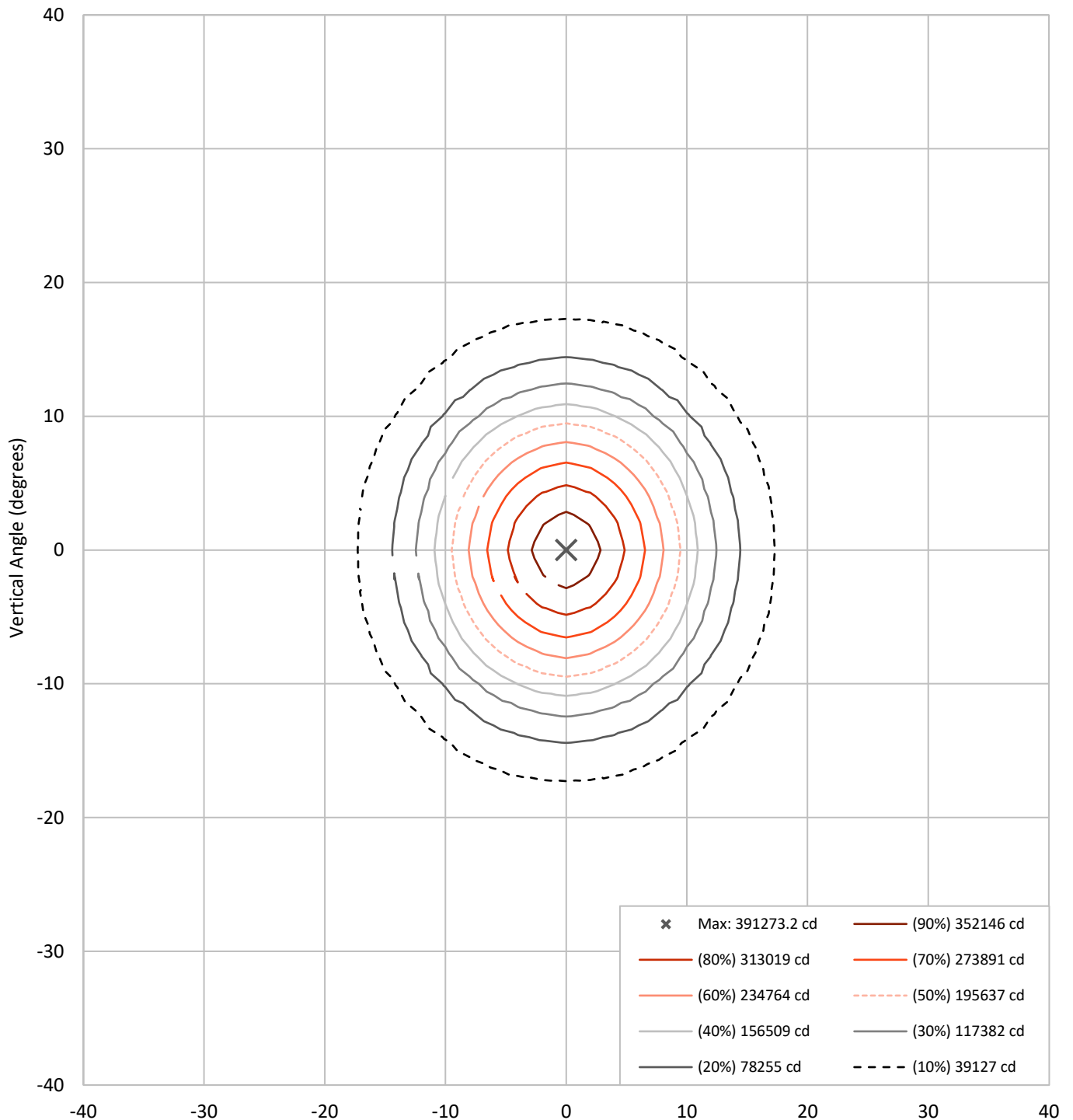
Test Method: LM-79-08
Report Number: P701397 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-61)
Test Lab: INNOVATION CENTER
Issue Date: 8/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320L-40-80-1S-HEG-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 1S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	53004 lumens	Max Intensity:	391273.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	155.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	19°H x 19°V	Field Angle (10%):	34.3°H x 34.3°V
Beam Lumens:	22845.4 lumens	Field Lumens:	42086.3 lumens
Beam Efficiency:	43.1%	Field Efficiency:	79.4%
Input Watts (W):	341.6		
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





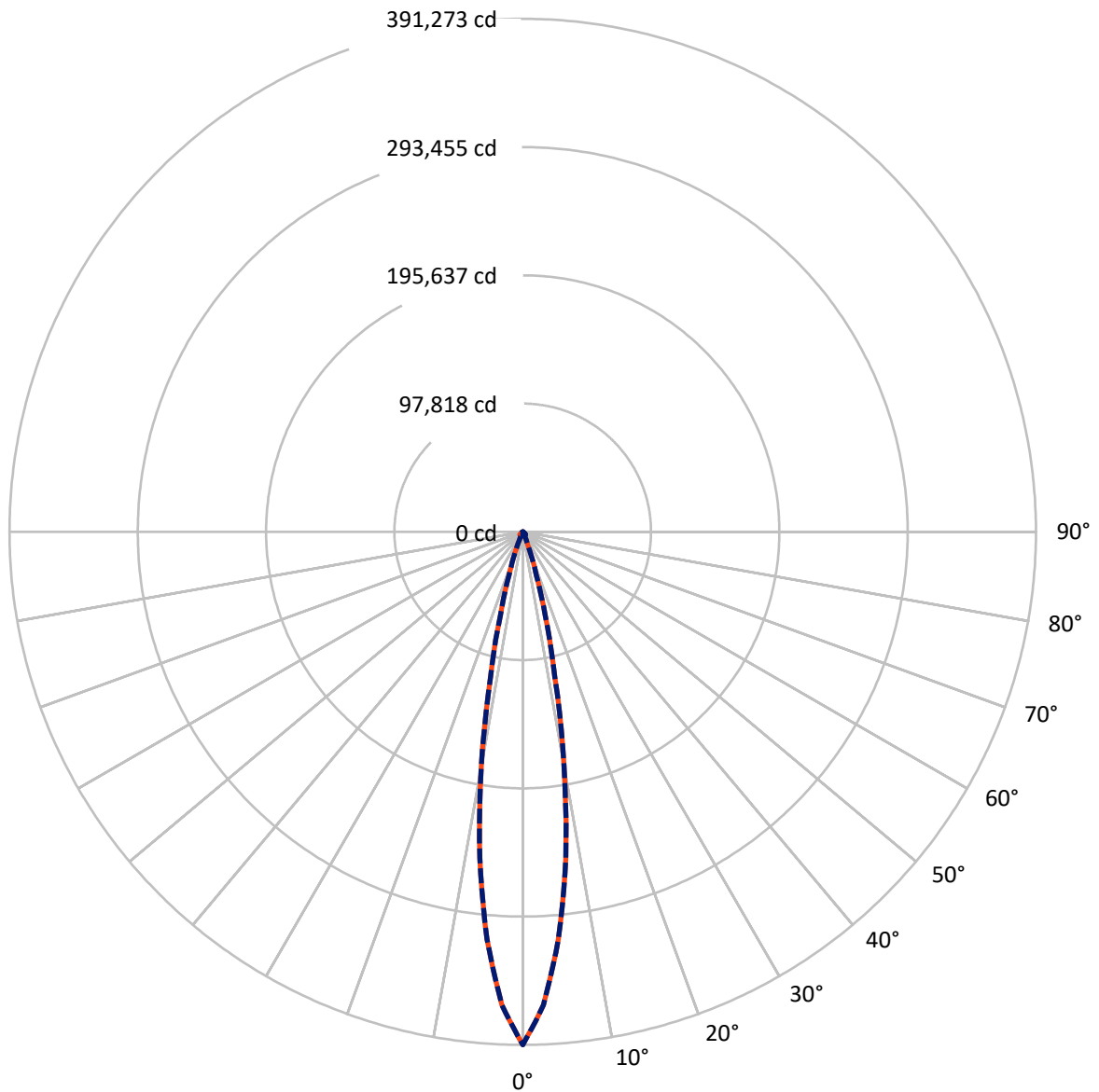
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Lumen Table

90	0.1		0.5		1.8		4.6		6.1		4.6		1.8		0.5		0.1
80	0.1		0.5		1.8		4.6		6.1		4.6		1.8		0.5		0.1
70	0.2	0.3	1.1	3.3	6.7	10.3	13.4	15.1	15.1	13.4	10.3	6.7	3.3	1.1	0.3	0.2	
60		0.8	3.9	9.6	16.5	22.3	26.1	28.2	28.2	26.1	22.3	16.5	9.6	3.9	0.8		
50	0.6	2.0	7.8	16.4	23.9	40.5	63.8	76.6	76.6	63.8	40.5	23.9	16.4	7.8	2.0	0.6	
40		3.6	11.7	20.7	48.9	83.7	92.4	92.6	92.6	92.4	83.7	48.9	20.7	11.7	3.6		
30	1.3	5.0	14.2	32.0	75.7	83.8	92.1	159.7	159.7	92.1	83.8	75.7	32.0	14.2	5.0	1.3	
20		6.0	15.6	47.4	78.4	86.6	506.2	1890.1	1890.1	506.2	86.6	78.4	47.4	15.6	6.0		
10	1.7	6.6	16.3	55.0	76.0	146.9	1844.3	7257.9	7257.9	1844.3	146.9	76.0	55.0	16.3	6.6	1.7	
0		6.6	16.3	55.0	76.0	146.9	1844.3	7257.9	7257.9	1844.3	146.9	76.0	55.0	16.3	6.6		
-10	1.3	6.0	15.6	47.4	78.4	86.6	506.2	1890.1	1890.1	506.2	86.6	78.4	47.4	15.6	6.0	1.3	
-20		5.0	14.2	32.0	75.7	83.8	92.1	159.7	159.7	92.1	83.8	75.7	32.0	14.2	5.0		
-30	0.6	3.6	11.7	20.7	48.9	83.7	92.4	92.6	92.6	92.4	83.7	48.9	20.7	11.7	3.6	0.6	
-40		2.0	7.8	16.4	23.9	40.5	63.8	76.6	76.6	63.8	40.5	23.9	16.4	7.8	2.0		
-50	0.2	0.8	3.9	9.6	16.5	22.3	26.1	28.2	28.2	26.1	22.3	16.5	9.6	3.9	0.8	0.2	
-60		0.3	1.1	3.3	6.7	10.3	13.4	15.1	15.1	13.4	10.3	6.7	3.3	1.1	0.3		
-70	0.1	0.5		1.8		4.6		6.1		4.6		1.8		0.5		0.1	
-80		0.5		1.8		4.6		6.1		4.6		1.8		0.5			
-90	0.1		0.5		1.8		4.6		6.1		4.6		1.8		0.5		0.1

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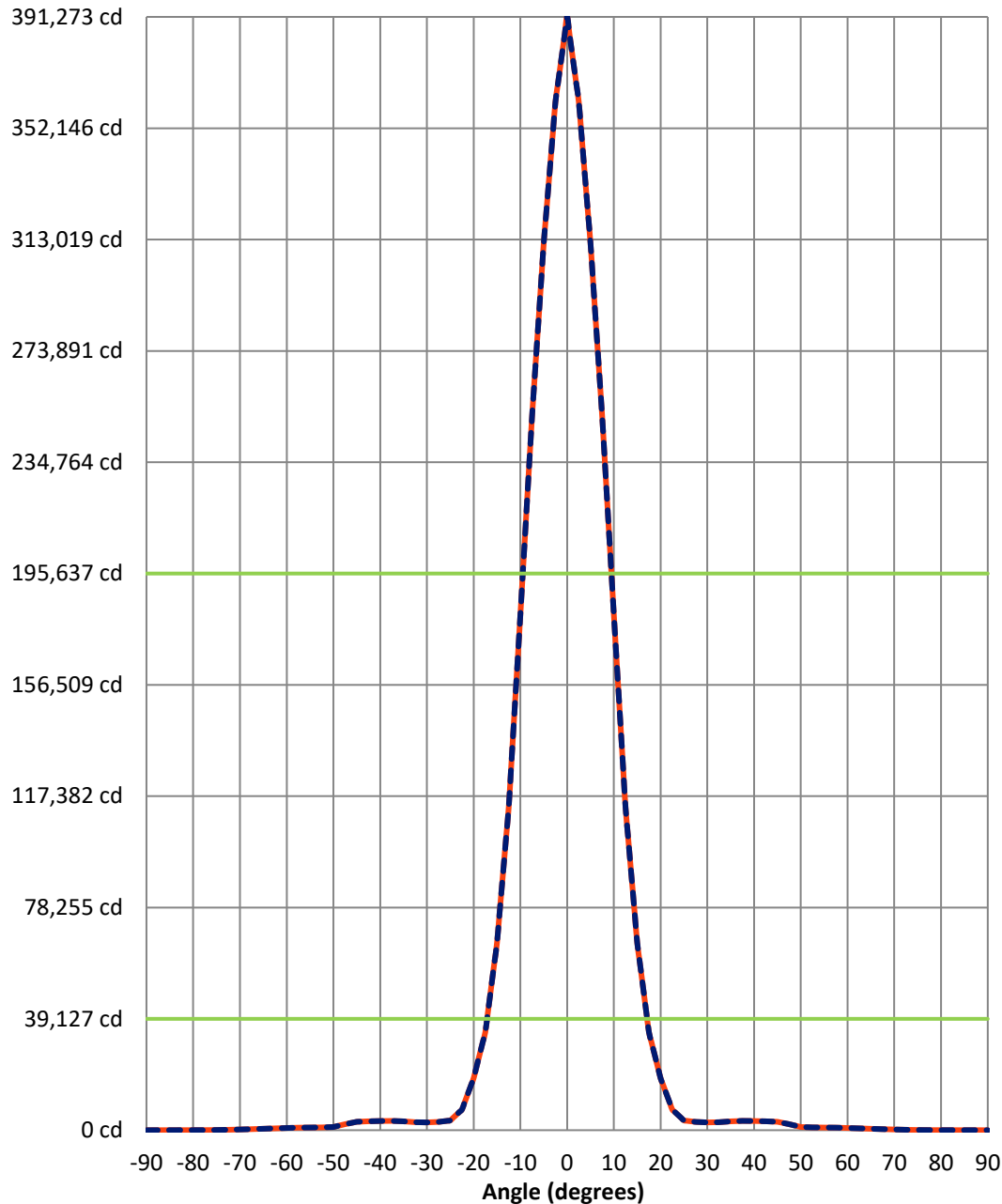
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 19°
 V Angle: 19°
 Lumens: 22845.4
 Efficiency: 43.1%

Field:
 H Angle: 34.3°
 V Angle: 34.3°
 Lumens: 42086.3
 Efficiency: 79.4%

Spill:
 Lumens: 10917.8
 Efficiency: 20.6%

— 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	0.6	0.8	1.0	1.1	1.3	1.4	1.6
85°	0.0	0.3	0.6	1.0	1.3	1.6	1.9	2.2	2.5	2.8	3.1
82.5°	0.0	0.5	1.0	1.4	1.9	2.4	2.9	3.3	3.8	4.1	4.5
80°	0.0	0.6	1.3	1.9	2.6	3.2	3.8	4.3	4.7	5.2	5.7
77.5°	0.0	0.8	1.6	2.4	3.2	3.9	4.5	5.1	5.7	6.3	7.2
75°	0.0	1.0	1.9	2.9	3.8	4.5	5.3	6.0	6.8	8.1	9.5
72.5°	0.0	1.1	2.2	3.3	4.3	5.1	6.0	7.0	8.6	10.2	11.8
70°	0.0	1.3	2.5	3.8	4.7	5.7	6.8	8.6	10.4	12.3	14.3
67.5°	0.0	1.4	2.8	4.1	5.2	6.3	8.1	10.2	12.3	14.6	16.9
65°	0.0	1.6	3.1	4.5	5.7	7.2	9.5	11.8	14.3	16.9	20.0
62.5°	0.0	1.7	3.4	4.8	6.1	8.2	10.8	13.5	16.3	19.5	24.4
60°	0.0	1.8	3.7	5.1	6.6	9.3	12.1	15.2	18.3	23.4	28.6
57.5°	0.0	2.0	3.9	5.5	7.4	10.4	13.5	16.9	21.4	27.1	39.4
55°	0.0	2.1	4.1	5.8	8.2	11.4	14.9	18.5	24.6	32.7	52.9
52.5°	0.0	2.3	4.3	6.1	9.0	12.4	16.3	21.2	27.8	44.6	66.1
50°	0.0	2.4	4.5	6.4	9.8	13.5	17.6	23.9	33.0	56.1	90.9
47.5°	0.0	2.5	4.7	6.7	10.5	14.6	19.0	26.5	42.9	67.2	116.3
45°	0.0	2.6	4.9	7.3	11.2	15.6	21.2	29.0	52.4	89.0	140.9
42.5°	0.0	2.7	5.1	7.8	11.9	16.6	23.2	34.6	61.6	110.1	171.5
40°	0.0	2.8	5.2	8.3	12.6	17.5	25.2	42.3	73.3	130.4	202.1
37.5°	0.0	2.9	5.4	8.7	13.3	18.4	27.1	49.5	90.4	151.5	231.2
35°	0.0	3.0	5.5	9.1	14.0	19.7	28.8	56.4	106.5	176.3	259.9
32.5°	0.0	3.1	5.7	9.6	14.6	21.0	31.6	62.9	121.7	199.6	288.6
30°	0.0	3.2	5.8	9.9	15.2	22.3	36.8	70.4	136.0	221.5	315.5
27.5°	0.0	3.3	5.9	10.3	15.7	23.5	41.6	81.9	151.0	241.8	340.5
25°	0.0	3.4	6.1	10.6	16.2	24.6	46.0	92.5	167.5	261.7	363.8
22.5°	0.0	3.4	6.2	10.9	16.7	25.6	50.0	102.2	182.6	280.5	389.2
20°	0.0	3.5	6.2	11.2	17.1	26.5	53.6	110.9	196.2	297.5	412.1
17.5°	0.0	3.5	6.3	11.4	17.5	27.3	56.9	118.7	208.3	312.6	432.5
15°	0.0	3.6	6.4	11.6	17.8	28.0	59.7	125.4	218.8	325.7	450.3
12.5°	0.0	3.6	6.5	11.8	18.1	28.6	62.0	131.2	227.8	336.9	465.5
10°	0.0	3.6	6.5	11.9	18.3	29.1	64.0	135.9	235.1	346.1	478.0
7.5°	0.0	3.7	6.6	12.1	18.5	29.5	65.5	139.6	240.9	353.3	487.7
5°	0.0	3.7	6.6	12.1	18.6	29.8	66.6	142.2	245.0	358.5	494.7
2.5°	0.0	3.7	6.6	12.2	18.7	29.9	67.3	143.8	247.5	361.6	498.9
0°	0.0	3.7	6.6	12.2	18.7	29.9	67.3	143.8	247.5	361.6	498.9
-2.5°	0.0	3.7	6.6	12.2	18.7	29.9	67.3	143.8	247.5	361.6	498.9
-5°	0.0	3.7	6.6	12.1	18.6	29.8	66.6	142.2	245.0	358.5	494.7
-7.5°	0.0	3.7	6.6	12.1	18.5	29.5	65.5	139.6	240.9	353.3	487.7
-10°	0.0	3.6	6.5	11.9	18.3	29.1	64.0	135.9	235.1	346.1	478.0
-12.5°	0.0	3.6	6.5	11.8	18.1	28.6	62.0	131.2	227.8	336.9	465.5
-15°	0.0	3.6	6.4	11.6	17.8	28.0	59.7	125.4	218.8	325.7	450.3
-17.5°	0.0	3.5	6.3	11.4	17.5	27.3	56.9	118.7	208.3	312.6	432.5
-20°	0.0	3.5	6.2	11.2	17.1	26.5	53.6	110.9	196.2	297.5	412.1



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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	3.4	6.2	10.9	16.7	25.6	50.0	102.2	182.6	280.5	389.2
-25°	0.0	3.4	6.1	10.6	16.2	24.6	46.0	92.5	167.5	261.7	363.8
-27.5°	0.0	3.3	5.9	10.3	15.7	23.5	41.6	81.9	151.0	241.8	340.5
-30°	0.0	3.2	5.8	9.9	15.2	22.3	36.8	70.4	136.0	221.5	315.5
-32.5°	0.0	3.1	5.7	9.6	14.6	21.0	31.6	62.9	121.7	199.6	288.6
-35°	0.0	3.0	5.5	9.1	14.0	19.7	28.8	56.4	106.5	176.3	259.9
-37.5°	0.0	2.9	5.4	8.7	13.3	18.4	27.1	49.5	90.4	151.5	231.2
-40°	0.0	2.8	5.2	8.3	12.6	17.5	25.2	42.3	73.3	130.4	202.1
-42.5°	0.0	2.7	5.1	7.8	11.9	16.6	23.2	34.6	61.6	110.1	171.5
-45°	0.0	2.6	4.9	7.3	11.2	15.6	21.2	29.0	52.4	89.0	140.9
-47.5°	0.0	2.5	4.7	6.7	10.5	14.6	19.0	26.5	42.9	67.2	116.3
-50°	0.0	2.4	4.5	6.4	9.8	13.5	17.6	23.9	33.0	56.1	90.9
-52.5°	0.0	2.3	4.3	6.1	9.0	12.4	16.3	21.2	27.8	44.6	66.1
-55°	0.0	2.1	4.1	5.8	8.2	11.4	14.9	18.5	24.6	32.7	52.9
-57.5°	0.0	2.0	3.9	5.5	7.4	10.4	13.5	16.9	21.4	27.1	39.4
-60°	0.0	1.8	3.7	5.1	6.6	9.3	12.1	15.2	18.3	23.4	28.6
-62.5°	0.0	1.7	3.4	4.8	6.1	8.2	10.8	13.5	16.3	19.5	24.4
-65°	0.0	1.6	3.1	4.5	5.7	7.2	9.5	11.8	14.3	16.9	20.0
-67.5°	0.0	1.4	2.8	4.1	5.2	6.3	8.1	10.2	12.3	14.6	16.9
-70°	0.0	1.3	2.5	3.8	4.7	5.7	6.8	8.6	10.4	12.3	14.3
-72.5°	0.0	1.1	2.2	3.3	4.3	5.1	6.0	7.0	8.6	10.2	11.8
-75°	0.0	1.0	1.9	2.9	3.8	4.5	5.3	6.0	6.8	8.1	9.5
-77.5°	0.0	0.8	1.6	2.4	3.2	3.9	4.5	5.1	5.7	6.3	7.2
-80°	0.0	0.6	1.3	1.9	2.6	3.2	3.8	4.3	4.7	5.2	5.7
-82.5°	0.0	0.5	1.0	1.4	1.9	2.4	2.9	3.3	3.8	4.1	4.5
-85°	0.0	0.3	0.6	1.0	1.3	1.6	1.9	2.2	2.5	2.8	3.1
-87.5°	0.0	0.2	0.3	0.5	0.6	0.8	1.0	1.1	1.3	1.4	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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 CATALOG NUMBER: EPH-LS-08-0320L-40-80-1S-HEG-S

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°	1.7	1.8	2.0	2.1	2.3	2.4	2.5	2.6	2.7	2.8	2.9
85°	3.4	3.7	3.9	4.1	4.3	4.5	4.7	4.9	5.1	5.2	5.4
82.5°	4.8	5.1	5.5	5.8	6.1	6.4	6.7	7.3	7.8	8.3	8.7
80°	6.1	6.6	7.4	8.2	9.0	9.8	10.5	11.2	11.9	12.6	13.3
77.5°	8.2	9.3	10.4	11.4	12.4	13.5	14.6	15.6	16.6	17.5	18.4
75°	10.8	12.1	13.5	14.9	16.3	17.6	19.0	21.2	23.2	25.2	27.1
72.5°	13.5	15.2	16.9	18.5	21.2	23.9	26.5	29.0	34.6	42.3	49.5
70°	16.3	18.3	21.4	24.6	27.8	33.0	42.9	52.4	61.6	73.3	90.4
67.5°	19.5	23.4	27.1	32.7	44.6	56.1	67.2	89.0	110.1	130.4	151.5
65°	24.4	28.6	39.4	52.9	66.1	90.9	116.3	140.9	171.5	202.1	231.2
62.5°	29.1	42.7	58.0	78.5	108.2	137.1	172.5	209.1	244.3	281.0	316.4
60°	42.7	59.7	85.4	118.7	153.5	196.2	237.6	280.5	322.9	363.8	410.6
57.5°	58.0	85.4	122.2	163.0	210.5	257.6	307.0	354.8	408.7	462.0	513.5
55°	78.5	118.7	163.0	215.3	268.3	323.0	379.1	441.2	501.3	561.0	618.2
52.5°	108.2	153.5	210.5	268.3	328.4	392.1	460.9	528.6	595.4	658.5	715.7
50°	137.1	196.2	257.6	323.0	392.1	467.5	542.4	616.2	684.5	748.4	805.4
47.5°	172.5	237.6	307.0	379.1	460.9	542.4	623.2	697.6	768.3	828.7	886.0
45°	209.1	280.5	354.8	441.2	528.6	616.2	697.6	774.9	840.4	894.6	914.5
42.5°	244.3	322.9	408.7	501.3	595.4	684.5	768.3	840.4	896.5	918.4	943.7
40°	281.0	363.8	462.0	561.0	658.5	748.4	828.7	894.6	918.4	946.5	976.7
37.5°	316.4	410.6	513.5	618.2	715.7	805.4	886.0	914.5	943.7	976.7	1067.4
35°	350.0	455.0	563.7	670.5	770.2	856.6	906.6	935.6	971.2	1059.1	1336.1
32.5°	385.7	497.1	611.2	718.4	816.0	895.0	923.6	960.2	1034.4	1223.3	1914.1
30°	421.6	537.9	655.0	763.5	858.6	910.0	944.0	993.7	1107.3	1741.6	2411.8
27.5°	455.0	576.0	693.7	801.7	892.8	924.0	964.4	1057.8	1458.1	2213.4	2855.2
25°	485.9	611.2	729.5	835.8	904.9	940.4	993.3	1117.7	1886.5	2602.6	3014.7
22.5°	514.7	643.5	762.3	867.0	916.0	956.6	1044.6	1437.5	2256.8	2950.3	3095.7
20°	541.1	670.5	789.9	891.8	926.0	971.3	1091.2	1773.3	2563.8	3019.4	3150.6
17.5°	564.6	694.6	813.0	900.1	937.6	996.5	1171.5	2074.8	2840.1	3081.8	3191.1
15°	585.1	715.7	833.2	907.3	948.2	1030.3	1416.3	2305.4	2975.4	3130.6	3226.3
12.5°	602.6	733.6	850.4	913.4	957.3	1059.3	1626.0	2498.4	3019.2	3159.2	3236.0
10°	617.0	748.4	864.6	918.5	964.7	1083.2	1799.4	2658.3	3055.5	3182.9	3244.1
7.5°	628.3	760.0	875.7	922.5	970.6	1101.9	1935.4	2783.8	3084.0	3201.6	3250.5
5°	636.3	768.3	883.7	925.3	974.8	1115.4	2033.3	2874.1	3104.5	3215.1	3255.1
2.5°	641.2	773.2	888.5	927.0	977.4	1123.5	2092.2	2928.6	3117.0	3223.3	3257.9
0°	642.8	774.9	890.1	927.6	978.2	1126.2	2111.9	2946.8	3121.1	3226.0	3258.8
-2.5°	641.2	773.2	888.5	927.0	977.4	1123.5	2092.2	2928.6	3117.0	3223.3	3257.9
-5°	636.3	768.3	883.7	925.3	974.8	1115.4	2033.3	2874.1	3104.5	3215.1	3255.1
-7.5°	628.3	760.0	875.7	922.5	970.6	1101.9	1935.4	2783.8	3084.0	3201.6	3250.5
-10°	617.0	748.4	864.6	918.5	964.7	1083.2	1799.4	2658.3	3055.5	3182.9	3244.1
-12.5°	602.6	733.6	850.4	913.4	957.3	1059.3	1626.0	2498.4	3019.2	3159.2	3236.0
-15°	585.1	715.7	833.2	907.3	948.2	1030.3	1416.3	2305.4	2975.4	3130.6	3226.3
-17.5°	564.6	694.6	813.0	900.1	937.6	996.5	1171.5	2074.8	2840.1	3081.8	3191.1
-20°	541.1	670.5	789.9	891.8	926.0	971.3	1091.2	1773.3	2563.8	3019.4	3150.6



REPORT NUMBER: P701397 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-1S-HEG-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	514.7	643.5	762.3	867.0	916.0	956.6	1044.6	1437.5	2256.8	2950.3	3095.7
-25°	485.9	611.2	729.5	835.8	904.9	940.4	993.3	1117.7	1886.5	2602.6	3014.7
-27.5°	455.0	576.0	693.7	801.7	892.8	924.0	964.4	1057.8	1458.1	2213.4	2855.2
-30°	421.6	537.9	655.0	763.5	858.6	910.0	944.0	993.7	1107.3	1741.6	2411.8
-32.5°	385.7	497.1	611.2	718.4	816.0	895.0	923.6	960.2	1034.4	1223.3	1914.1
-35°	350.0	455.0	563.7	670.5	770.2	856.6	906.6	935.6	971.2	1059.1	1336.1
-37.5°	316.4	410.6	513.5	618.2	715.7	805.4	886.0	914.5	943.7	976.7	1067.4
-40°	281.0	363.8	462.0	561.0	658.5	748.4	828.7	894.6	918.4	946.5	976.7
-42.5°	244.3	322.9	408.7	501.3	595.4	684.5	768.3	840.4	896.5	918.4	943.7
-45°	209.1	280.5	354.8	441.2	528.6	616.2	697.6	774.9	840.4	894.6	914.5
-47.5°	172.5	237.6	307.0	379.1	460.9	542.4	623.2	697.6	768.3	828.7	886.0
-50°	137.1	196.2	257.6	323.0	392.1	467.5	542.4	616.2	684.5	748.4	805.4
-52.5°	108.2	153.5	210.5	268.3	328.4	392.1	460.9	528.6	595.4	658.5	715.7
-55°	78.5	118.7	163.0	215.3	268.3	323.0	379.1	441.2	501.3	561.0	618.2
-57.5°	58.0	85.4	122.2	163.0	210.5	257.6	307.0	354.8	408.7	462.0	513.5
-60°	42.7	59.7	85.4	118.7	153.5	196.2	237.6	280.5	322.9	363.8	410.6
-62.5°	29.1	42.7	58.0	78.5	108.2	137.1	172.5	209.1	244.3	281.0	316.4
-65°	24.4	28.6	39.4	52.9	66.1	90.9	116.3	140.9	171.5	202.1	231.2
-67.5°	19.5	23.4	27.1	32.7	44.6	56.1	67.2	89.0	110.1	130.4	151.5
-70°	16.3	18.3	21.4	24.6	27.8	33.0	42.9	52.4	61.6	73.3	90.4
-72.5°	13.5	15.2	16.9	18.5	21.2	23.9	26.5	29.0	34.6	42.3	49.5
-75°	10.8	12.1	13.5	14.9	16.3	17.6	19.0	21.2	23.2	25.2	27.1
-77.5°	8.2	9.3	10.4	11.4	12.4	13.5	14.6	15.6	16.6	17.5	18.4
-80°	6.1	6.6	7.4	8.2	9.0	9.8	10.5	11.2	11.9	12.6	13.3
-82.5°	4.8	5.1	5.5	5.8	6.1	6.4	6.7	7.3	7.8	8.3	8.7
-85°	3.4	3.7	3.9	4.1	4.3	4.5	4.7	4.9	5.1	5.2	5.4
-87.5°	1.7	1.8	2.0	2.1	2.3	2.4	2.5	2.6	2.7	2.8	2.9
-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: P701397 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-1S-HEG-S

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°	3.0	3.1	3.2	3.3	3.4	3.4	3.5	3.5	3.6	3.6	3.6
85°	5.5	5.7	5.8	5.9	6.1	6.2	6.2	6.3	6.4	6.5	6.5
82.5°	9.1	9.6	9.9	10.3	10.6	10.9	11.2	11.4	11.6	11.8	11.9
80°	14.0	14.6	15.2	15.7	16.2	16.7	17.1	17.5	17.8	18.1	18.3
77.5°	19.7	21.0	22.3	23.5	24.6	25.6	26.5	27.3	28.0	28.6	29.1
75°	28.8	31.6	36.8	41.6	46.0	50.0	53.6	56.9	59.7	62.0	64.0
72.5°	56.4	62.9	70.4	81.9	92.5	102.2	110.9	118.7	125.4	131.2	135.9
70°	106.5	121.7	136.0	151.0	167.5	182.6	196.2	208.3	218.8	227.8	235.1
67.5°	176.3	199.6	221.5	241.8	261.7	280.5	297.5	312.6	325.7	336.9	346.1
65°	259.9	288.6	315.5	340.5	363.8	389.2	412.1	432.5	450.3	465.5	478.0
62.5°	350.0	385.7	421.6	455.0	485.9	514.7	541.1	564.6	585.1	602.6	617.0
60°	455.0	497.1	537.9	576.0	611.2	643.5	670.5	694.6	715.7	733.6	748.4
57.5°	563.7	611.2	655.0	693.7	729.5	762.3	789.9	813.0	833.2	850.4	864.6
55°	670.5	718.4	763.5	801.7	835.8	867.0	891.8	900.1	907.3	913.4	918.5
52.5°	770.2	816.0	858.6	892.8	904.9	916.0	926.0	937.6	948.2	957.3	964.7
50°	856.6	895.0	910.0	924.0	940.4	956.6	971.3	996.5	1030.3	1059.3	1083.2
47.5°	906.6	923.6	944.0	964.4	993.3	1044.6	1091.2	1171.5	1416.3	1626.0	1799.4
45°	935.6	960.2	993.7	1057.8	1117.7	1437.5	1773.3	2074.8	2305.4	2498.4	2658.3
42.5°	971.2	1034.4	1107.3	1458.1	1886.5	2256.8	2563.8	2840.1	2975.4	3019.2	3055.5
40°	1059.1	1223.3	1741.6	2213.4	2602.6	2950.3	3019.4	3081.8	3130.6	3159.2	3182.9
37.5°	1336.1	1914.1	2411.8	2855.2	3014.7	3095.7	3150.6	3191.1	3226.3	3236.0	3244.1
35°	1972.0	2512.2	2959.8	3058.5	3139.4	3191.7	3230.3	3244.0	3256.2	3221.4	3179.9
32.5°	2512.2	2970.6	3080.6	3159.9	3219.8	3241.6	3257.8	3194.0	3131.8	3053.4	2966.1
30°	2959.8	3080.6	3166.9	3228.5	3248.4	3219.2	3137.1	3022.6	2892.7	2799.4	2775.1
27.5°	3058.5	3159.9	3228.5	3250.7	3196.7	3100.2	2930.0	2797.9	2761.9	2730.4	2795.0
25°	3139.4	3219.8	3248.4	3196.7	3077.4	2882.7	2779.1	2736.1	2811.6	2895.9	3053.2
22.5°	3191.7	3241.6	3219.2	3100.2	2882.7	2772.8	2748.6	2862.3	3049.7	3295.7	4150.2
20°	3230.3	3257.8	3137.1	2930.0	2779.1	2748.6	2879.5	3146.1	3694.6	5782.5	8253.1
17.5°	3244.0	3194.0	3022.6	2797.9	2736.1	2862.3	3146.1	4093.7	6628.7	12124.5	17922.3
15°	3256.2	3131.8	2892.7	2761.9	2811.6	3049.7	3694.6	6628.7	13452.4	21941.5	31473.5
12.5°	3221.4	3053.4	2799.4	2730.4	2895.9	3295.7	5782.5	12124.5	21941.5	33788.6	53855.5
10°	3179.9	2966.1	2775.1	2795.0	3053.2	4150.2	8253.1	17922.3	31473.5	53855.5	81100.0
7.5°	3147.1	2897.0	2755.8	2847.1	3206.5	5466.3	12501.9	24796.9	44131.7	73604.1	113876.8
5°	3123.4	2846.8	2741.7	2885.0	3318.9	6436.5	15658.6	30079.5	55924.6	93537.9	147255.9
2.5°	3109.0	2816.4	2733.2	2908.1	3387.5	7031.8	17606.4	33365.9	63349.7	107910.0	172227.7
0°	3104.2	2806.2	2730.3	2915.9	3410.6	7232.5	18265.3	34482.5	65889.8	113363.4	181147.7
-2.5°	3109.0	2816.4	2733.2	2908.1	3387.5	7031.8	17606.4	33365.9	63349.7	107910.0	172227.7
-5°	3123.4	2846.8	2741.7	2885.0	3318.9	6436.5	15658.6	30079.5	55924.6	93537.9	147255.9
-7.5°	3147.1	2897.0	2755.8	2847.1	3206.5	5466.3	12501.9	24796.9	44131.7	73604.1	113876.8
-10°	3179.9	2966.1	2775.1	2795.0	3053.2	4150.2	8253.1	17922.3	31473.5	53855.5	81100.0
-12.5°	3221.4	3053.4	2799.4	2730.4	2895.9	3295.7	5782.5	12124.5	21941.5	33788.6	53855.5
-15°	3256.2	3131.8	2892.7	2761.9	2811.6	3049.7	3694.6	6628.7	13452.4	21941.5	31473.5
-17.5°	3244.0	3194.0	3022.6	2797.9	2736.1	2862.3	3146.1	4093.7	6628.7	12124.5	17922.3
-20°	3230.3	3257.8	3137.1	2930.0	2779.1	2748.6	2879.5	3146.1	3694.6	5782.5	8253.1



REPORT NUMBER: P701397 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-1S-HEG-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3191.7	3241.6	3219.2	3100.2	2882.7	2772.8	2748.6	2862.3	3049.7	3295.7	4150.2
-25°	3139.4	3219.8	3248.4	3196.7	3077.4	2882.7	2779.1	2736.1	2811.6	2895.9	3053.2
-27.5°	3058.5	3159.9	3228.5	3250.7	3196.7	3100.2	2930.0	2797.9	2761.9	2730.4	2795.0
-30°	2959.8	3080.6	3166.9	3228.5	3248.4	3219.2	3137.1	3022.6	2892.7	2799.4	2775.1
-32.5°	2512.2	2970.6	3080.6	3159.9	3219.8	3241.6	3257.8	3194.0	3131.8	3053.4	2966.1
-35°	1972.0	2512.2	2959.8	3058.5	3139.4	3191.7	3230.3	3244.0	3256.2	3221.4	3179.9
-37.5°	1336.1	1914.1	2411.8	2855.2	3014.7	3095.7	3150.6	3191.1	3226.3	3236.0	3244.1
-40°	1059.1	1223.3	1741.6	2213.4	2602.6	2950.3	3019.4	3081.8	3130.6	3159.2	3182.9
-42.5°	971.2	1034.4	1107.3	1458.1	1886.5	2256.8	2563.8	2840.1	2975.4	3019.2	3055.5
-45°	935.6	960.2	993.7	1057.8	1117.7	1437.5	1773.3	2074.8	2305.4	2498.4	2658.3
-47.5°	906.6	923.6	944.0	964.4	993.3	1044.6	1091.2	1171.5	1416.3	1626.0	1799.4
-50°	856.6	895.0	910.0	924.0	940.4	956.6	971.3	996.5	1030.3	1059.3	1083.2
-52.5°	770.2	816.0	858.6	892.8	904.9	916.0	926.0	937.6	948.2	957.3	964.7
-55°	670.5	718.4	763.5	801.7	835.8	867.0	891.8	900.1	907.3	913.4	918.5
-57.5°	563.7	611.2	655.0	693.7	729.5	762.3	789.9	813.0	833.2	850.4	864.6
-60°	455.0	497.1	537.9	576.0	611.2	643.5	670.5	694.6	715.7	733.6	748.4
-62.5°	350.0	385.7	421.6	455.0	485.9	514.7	541.1	564.6	585.1	602.6	617.0
-65°	259.9	288.6	315.5	340.5	363.8	389.2	412.1	432.5	450.3	465.5	478.0
-67.5°	176.3	199.6	221.5	241.8	261.7	280.5	297.5	312.6	325.7	336.9	346.1
-70°	106.5	121.7	136.0	151.0	167.5	182.6	196.2	208.3	218.8	227.8	235.1
-72.5°	56.4	62.9	70.4	81.9	92.5	102.2	110.9	118.7	125.4	131.2	135.9
-75°	28.8	31.6	36.8	41.6	46.0	50.0	53.6	56.9	59.7	62.0	64.0
-77.5°	19.7	21.0	22.3	23.5	24.6	25.6	26.5	27.3	28.0	28.6	29.1
-80°	14.0	14.6	15.2	15.7	16.2	16.7	17.1	17.5	17.8	18.1	18.3
-82.5°	9.1	9.6	9.9	10.3	10.6	10.9	11.2	11.4	11.6	11.8	11.9
-85°	5.5	5.7	5.8	5.9	6.1	6.2	6.2	6.3	6.4	6.5	6.5
-87.5°	3.0	3.1	3.2	3.3	3.4	3.4	3.5	3.5	3.6	3.6	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



REPORT NUMBER: P701397 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-1S-HEG-S

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°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.6	3.6	3.6	3.5
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°	12.1	12.1	12.2	12.2	12.2	12.1	12.1	11.9	11.8	11.6	11.4
80°	18.5	18.6	18.7	18.7	18.7	18.6	18.5	18.3	18.1	17.8	17.5
77.5°	29.5	29.8	29.9	30.0	29.9	29.8	29.5	29.1	28.6	28.0	27.3
75°	65.5	66.6	67.3	67.5	67.3	66.6	65.5	64.0	62.0	59.7	56.9
72.5°	139.6	142.2	143.8	144.3	143.8	142.2	139.6	135.9	131.2	125.4	118.7
70°	240.9	245.0	247.5	248.3	247.5	245.0	240.9	235.1	227.8	218.8	208.3
67.5°	353.3	358.5	361.6	362.6	361.6	358.5	353.3	346.1	336.9	325.7	312.6
65°	487.7	494.7	498.9	500.3	498.9	494.7	487.7	478.0	465.5	450.3	432.5
62.5°	628.3	636.3	641.2	642.8	641.2	636.3	628.3	617.0	602.6	585.1	564.6
60°	760.0	768.3	773.2	774.9	773.2	768.3	760.0	748.4	733.6	715.7	694.6
57.5°	875.7	883.7	888.5	890.1	888.5	883.7	875.7	864.6	850.4	833.2	813.0
55°	922.5	925.3	927.0	927.6	927.0	925.3	922.5	918.5	913.4	907.3	900.1
52.5°	970.6	974.8	977.4	978.2	977.4	974.8	970.6	964.7	957.3	948.2	937.6
50°	1101.9	1115.4	1123.5	1126.2	1123.5	1115.4	1101.9	1083.2	1059.3	1030.3	996.5
47.5°	1935.4	2033.3	2092.2	2111.9	2092.2	2033.3	1935.4	1799.4	1626.0	1416.3	1171.5
45°	2783.8	2874.1	2928.6	2946.8	2928.6	2874.1	2783.8	2658.3	2498.4	2305.4	2074.8
42.5°	3084.0	3104.5	3117.0	3121.1	3117.0	3104.5	3084.0	3055.5	3019.2	2975.4	2840.1
40°	3201.6	3215.1	3223.3	3226.0	3223.3	3215.1	3201.6	3182.9	3159.2	3130.6	3081.8
37.5°	3250.5	3255.1	3257.9	3258.8	3257.9	3255.1	3250.5	3244.1	3236.0	3226.3	3191.1
35°	3147.1	3123.4	3109.0	3104.2	3109.0	3123.4	3147.1	3179.9	3221.4	3256.2	3244.0
32.5°	2897.0	2846.8	2816.4	2806.2	2816.4	2846.8	2897.0	2966.1	3053.4	3131.8	3194.0
30°	2755.8	2741.7	2733.2	2730.3	2733.2	2741.7	2755.8	2775.1	2799.4	2892.7	3022.6
27.5°	2847.1	2885.0	2908.1	2915.9	2908.1	2885.0	2847.1	2795.0	2730.4	2761.9	2797.9
25°	3206.5	3318.9	3387.5	3410.6	3387.5	3318.9	3206.5	3053.2	2895.9	2811.6	2736.1
22.5°	5466.3	6436.5	7031.8	7232.5	7031.8	6436.5	5466.3	4150.2	3295.7	3049.7	2862.3
20°	12501.9	15658.6	17606.4	18265.3	17606.4	15658.6	12501.9	8253.1	5782.5	3694.6	3146.1
17.5°	24796.9	30079.5	33365.9	34482.5	33365.9	30079.5	24796.9	17922.3	12124.5	6628.7	4093.7
15°	44131.7	55924.6	63349.7	65889.8	63349.7	55924.6	44131.7	31473.5	21941.5	13452.4	6628.7
12.5°	73604.1	93537.9	107910.0	113363.4	107910.0	93537.9	73604.1	53855.5	33788.6	21941.5	12124.5
10°	113876.8	147255.9	172227.7	181147.7	172227.7	147255.9	113876.8	81100.0	53855.5	31473.5	17922.3
7.5°	163833.2	208695.9	240219.0	250951.7	240219.0	208695.9	163833.2	113876.8	73604.1	44131.7	24796.9
5°	208695.9	262482.3	298458.0	311766.4	298458.0	262482.3	208695.9	147255.9	93537.9	55924.6	30079.5
2.5°	240219.0	298458.0	341145.9	361387.1	341145.9	298458.0	240219.0	172227.7	107910.0	63349.7	33365.9
0°	250951.7	311766.4	361387.1	391273.2	361387.1	311766.4	250951.7	181147.7	113363.4	65889.8	34482.5
-2.5°	240219.0	298458.0	341145.9	361387.1	341145.9	298458.0	240219.0	172227.7	107910.0	63349.7	33365.9
-5°	208695.9	262482.3	298458.0	311766.4	298458.0	262482.3	208695.9	147255.9	93537.9	55924.6	30079.5
-7.5°	163833.2	208695.9	240219.0	250951.7	240219.0	208695.9	163833.2	113876.8	73604.1	44131.7	24796.9
-10°	113876.8	147255.9	172227.7	181147.7	172227.7	147255.9	113876.8	81100.0	53855.5	31473.5	17922.3
-12.5°	73604.1	93537.9	107910.0	113363.4	107910.0	93537.9	73604.1	53855.5	33788.6	21941.5	12124.5
-15°	44131.7	55924.6	63349.7	65889.8	63349.7	55924.6	44131.7	31473.5	21941.5	13452.4	6628.7
-17.5°	24796.9	30079.5	33365.9	34482.5	33365.9	30079.5	24796.9	17922.3	12124.5	6628.7	4093.7
-20°	12501.9	15658.6	17606.4	18265.3	17606.4	15658.6	12501.9	8253.1	5782.5	3694.6	3146.1



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 CATALOG NUMBER: EPH-LS-08-0320L-40-80-1S-HEG-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	5466.3	6436.5	7031.8	7232.5	7031.8	6436.5	5466.3	4150.2	3295.7	3049.7	2862.3
-25°	3206.5	3318.9	3387.5	3410.6	3387.5	3318.9	3206.5	3053.2	2895.9	2811.6	2736.1
-27.5°	2847.1	2885.0	2908.1	2915.9	2908.1	2885.0	2847.1	2795.0	2730.4	2761.9	2797.9
-30°	2755.8	2741.7	2733.2	2730.3	2733.2	2741.7	2755.8	2775.1	2799.4	2892.7	3022.6
-32.5°	2897.0	2846.8	2816.4	2806.2	2816.4	2846.8	2897.0	2966.1	3053.4	3131.8	3194.0
-35°	3147.1	3123.4	3109.0	3104.2	3109.0	3123.4	3147.1	3179.9	3221.4	3256.2	3244.0
-37.5°	3250.5	3255.1	3257.9	3258.8	3257.9	3255.1	3250.5	3244.1	3236.0	3226.3	3191.1
-40°	3201.6	3215.1	3223.3	3226.0	3223.3	3215.1	3201.6	3182.9	3159.2	3130.6	3081.8
-42.5°	3084.0	3104.5	3117.0	3121.1	3117.0	3104.5	3084.0	3055.5	3019.2	2975.4	2840.1
-45°	2783.8	2874.1	2928.6	2946.8	2928.6	2874.1	2783.8	2658.3	2498.4	2305.4	2074.8
-47.5°	1935.4	2033.3	2092.2	2111.9	2092.2	2033.3	1935.4	1799.4	1626.0	1416.3	1171.5
-50°	1101.9	1115.4	1123.5	1126.2	1123.5	1115.4	1101.9	1083.2	1059.3	1030.3	996.5
-52.5°	970.6	974.8	977.4	978.2	977.4	974.8	970.6	964.7	957.3	948.2	937.6
-55°	922.5	925.3	927.0	927.6	927.0	925.3	922.5	918.5	913.4	907.3	900.1
-57.5°	875.7	883.7	888.5	890.1	888.5	883.7	875.7	864.6	850.4	833.2	813.0
-60°	760.0	768.3	773.2	774.9	773.2	768.3	760.0	748.4	733.6	715.7	694.6
-62.5°	628.3	636.3	641.2	642.8	641.2	636.3	628.3	617.0	602.6	585.1	564.6
-65°	487.7	494.7	498.9	500.3	498.9	494.7	487.7	478.0	465.5	450.3	432.5
-67.5°	353.3	358.5	361.6	362.6	361.6	358.5	353.3	346.1	336.9	325.7	312.6
-70°	240.9	245.0	247.5	248.3	247.5	245.0	240.9	235.1	227.8	218.8	208.3
-72.5°	139.6	142.2	143.8	144.3	143.8	142.2	139.6	135.9	131.2	125.4	118.7
-75°	65.5	66.6	67.3	67.5	67.3	66.6	65.5	64.0	62.0	59.7	56.9
-77.5°	29.5	29.8	29.9	30.0	29.9	29.8	29.5	29.1	28.6	28.0	27.3
-80°	18.5	18.6	18.7	18.7	18.7	18.6	18.5	18.3	18.1	17.8	17.5
-82.5°	12.1	12.1	12.2	12.2	12.2	12.1	12.1	11.9	11.8	11.6	11.4
-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°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.6	3.6	3.6	3.5
-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):

	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°	3.5	3.4	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.6
85°	6.2	6.2	6.1	5.9	5.8	5.7	5.5	5.4	5.2	5.1	4.9
82.5°	11.2	10.9	10.6	10.3	9.9	9.6	9.1	8.7	8.3	7.8	7.3
80°	17.1	16.7	16.2	15.7	15.2	14.6	14.0	13.3	12.6	11.9	11.2
77.5°	26.5	25.6	24.6	23.5	22.3	21.0	19.7	18.4	17.5	16.6	15.6
75°	53.6	50.0	46.0	41.6	36.8	31.6	28.8	27.1	25.2	23.2	21.2
72.5°	110.9	102.2	92.5	81.9	70.4	62.9	56.4	49.5	42.3	34.6	29.0
70°	196.2	182.6	167.5	151.0	136.0	121.7	106.5	90.4	73.3	61.6	52.4
67.5°	297.5	280.5	261.7	241.8	221.5	199.6	176.3	151.5	130.4	110.1	89.0
65°	412.1	389.2	363.8	340.5	315.5	288.6	259.9	231.2	202.1	171.5	140.9
62.5°	541.1	514.7	485.9	455.0	421.6	385.7	350.0	316.4	281.0	244.3	209.1
60°	670.5	643.5	611.2	576.0	537.9	497.1	455.0	410.6	363.8	322.9	280.5
57.5°	789.9	762.3	729.5	693.7	655.0	611.2	563.7	513.5	462.0	408.7	354.8
55°	891.8	867.0	835.8	801.7	763.5	718.4	670.5	618.2	561.0	501.3	441.2
52.5°	926.0	916.0	904.9	892.8	858.6	816.0	770.2	715.7	658.5	595.4	528.6
50°	971.3	956.6	940.4	924.0	910.0	895.0	856.6	805.4	748.4	684.5	616.2
47.5°	1091.2	1044.6	993.3	964.4	944.0	923.6	906.6	886.0	828.7	768.3	697.6
45°	1773.3	1437.5	1117.7	1057.8	993.7	960.2	935.6	914.5	894.6	840.4	774.9
42.5°	2563.8	2256.8	1886.5	1458.1	1107.3	1034.4	971.2	943.7	918.4	896.5	840.4
40°	3019.4	2950.3	2602.6	2213.4	1741.6	1223.3	1059.1	976.7	946.5	918.4	894.6
37.5°	3150.6	3095.7	3014.7	2855.2	2411.8	1914.1	1336.1	1067.4	976.7	943.7	914.5
35°	3230.3	3191.7	3139.4	3058.5	2959.8	2512.2	1972.0	1336.1	1059.1	971.2	935.6
32.5°	3257.8	3241.6	3219.8	3159.9	3080.6	2970.6	2512.2	1914.1	1223.3	1034.4	960.2
30°	3137.1	3219.2	3248.4	3228.5	3166.9	3080.6	2959.8	2411.8	1741.6	1107.3	993.7
27.5°	2930.0	3100.2	3196.7	3250.7	3228.5	3159.9	3058.5	2855.2	2213.4	1458.1	1057.8
25°	2779.1	2882.7	3077.4	3196.7	3248.4	3219.8	3139.4	3014.7	2602.6	1886.5	1117.7
22.5°	2748.6	2772.8	2882.7	3100.2	3219.2	3241.6	3191.7	3095.7	2950.3	2256.8	1437.5
20°	2879.5	2748.6	2779.1	2930.0	3137.1	3257.8	3230.3	3150.6	3019.4	2563.8	1773.3
17.5°	3146.1	2862.3	2736.1	2797.9	3022.6	3194.0	3244.0	3191.1	3081.8	2840.1	2074.8
15°	3694.6	3049.7	2811.6	2761.9	2892.7	3131.8	3256.2	3226.3	3130.6	2975.4	2305.4
12.5°	5782.5	3295.7	2895.9	2730.4	2799.4	3053.4	3221.4	3236.0	3159.2	3019.2	2498.4
10°	8253.1	4150.2	3053.2	2795.0	2775.1	2966.1	3179.9	3244.1	3182.9	3055.5	2658.3
7.5°	12501.9	5466.3	3206.5	2847.1	2755.8	2897.0	3147.1	3250.5	3201.6	3084.0	2783.8
5°	15658.6	6436.5	3318.9	2885.0	2741.7	2846.8	3123.4	3255.1	3215.1	3104.5	2874.1
2.5°	17606.4	7031.8	3387.5	2908.1	2733.2	2816.4	3109.0	3257.9	3223.3	3117.0	2928.6
0°	18265.3	7232.5	3410.6	2915.9	2730.3	2806.2	3104.2	3258.8	3226.0	3121.1	2946.8
-2.5°	17606.4	7031.8	3387.5	2908.1	2733.2	2816.4	3109.0	3257.9	3223.3	3117.0	2928.6
-5°	15658.6	6436.5	3318.9	2885.0	2741.7	2846.8	3123.4	3255.1	3215.1	3104.5	2874.1
-7.5°	12501.9	5466.3	3206.5	2847.1	2755.8	2897.0	3147.1	3250.5	3201.6	3084.0	2783.8
-10°	8253.1	4150.2	3053.2	2795.0	2775.1	2966.1	3179.9	3244.1	3182.9	3055.5	2658.3
-12.5°	5782.5	3295.7	2895.9	2730.4	2799.4	3053.4	3221.4	3236.0	3159.2	3019.2	2498.4
-15°	3694.6	3049.7	2811.6	2761.9	2892.7	3131.8	3256.2	3226.3	3130.6	2975.4	2305.4
-17.5°	3146.1	2862.3	2736.1	2797.9	3022.6	3194.0	3244.0	3191.1	3081.8	2840.1	2074.8
-20°	2879.5	2748.6	2779.1	2930.0	3137.1	3257.8	3230.3	3150.6	3019.4	2563.8	1773.3



REPORT NUMBER: P701397 (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°	2748.6	2772.8	2882.7	3100.2	3219.2	3241.6	3191.7	3095.7	2950.3	2256.8	1437.5
-25°	2779.1	2882.7	3077.4	3196.7	3248.4	3219.8	3139.4	3014.7	2602.6	1886.5	1117.7
-27.5°	2930.0	3100.2	3196.7	3250.7	3228.5	3159.9	3058.5	2855.2	2213.4	1458.1	1057.8
-30°	3137.1	3219.2	3248.4	3228.5	3166.9	3080.6	2959.8	2411.8	1741.6	1107.3	993.7
-32.5°	3257.8	3241.6	3219.8	3159.9	3080.6	2970.6	2512.2	1914.1	1223.3	1034.4	960.2
-35°	3230.3	3191.7	3139.4	3058.5	2959.8	2512.2	1972.0	1336.1	1059.1	971.2	935.6
-37.5°	3150.6	3095.7	3014.7	2855.2	2411.8	1914.1	1336.1	1067.4	976.7	943.7	914.5
-40°	3019.4	2950.3	2602.6	2213.4	1741.6	1223.3	1059.1	976.7	946.5	918.4	894.6
-42.5°	2563.8	2256.8	1886.5	1458.1	1107.3	1034.4	971.2	943.7	918.4	896.5	840.4
-45°	1773.3	1437.5	1117.7	1057.8	993.7	960.2	935.6	914.5	894.6	840.4	774.9
-47.5°	1091.2	1044.6	993.3	964.4	944.0	923.6	906.6	886.0	828.7	768.3	697.6
-50°	971.3	956.6	940.4	924.0	910.0	895.0	856.6	805.4	748.4	684.5	616.2
-52.5°	926.0	916.0	904.9	892.8	858.6	816.0	770.2	715.7	658.5	595.4	528.6
-55°	891.8	867.0	835.8	801.7	763.5	718.4	670.5	618.2	561.0	501.3	441.2
-57.5°	789.9	762.3	729.5	693.7	655.0	611.2	563.7	513.5	462.0	408.7	354.8
-60°	670.5	643.5	611.2	576.0	537.9	497.1	455.0	410.6	363.8	322.9	280.5
-62.5°	541.1	514.7	485.9	455.0	421.6	385.7	350.0	316.4	281.0	244.3	209.1
-65°	412.1	389.2	363.8	340.5	315.5	288.6	259.9	231.2	202.1	171.5	140.9
-67.5°	297.5	280.5	261.7	241.8	221.5	199.6	176.3	151.5	130.4	110.1	89.0
-70°	196.2	182.6	167.5	151.0	136.0	121.7	106.5	90.4	73.3	61.6	52.4
-72.5°	110.9	102.2	92.5	81.9	70.4	62.9	56.4	49.5	42.3	34.6	29.0
-75°	53.6	50.0	46.0	41.6	36.8	31.6	28.8	27.1	25.2	23.2	21.2
-77.5°	26.5	25.6	24.6	23.5	22.3	21.0	19.7	18.4	17.5	16.6	15.6
-80°	17.1	16.7	16.2	15.7	15.2	14.6	14.0	13.3	12.6	11.9	11.2
-82.5°	11.2	10.9	10.6	10.3	9.9	9.6	9.1	8.7	8.3	7.8	7.3
-85°	6.2	6.2	6.1	5.9	5.8	5.7	5.5	5.4	5.2	5.1	4.9
-87.5°	3.5	3.4	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.6
-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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 CATALOG NUMBER: EPH-LS-08-0320L-40-80-1S-HEG-S

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°	2.5	2.4	2.3	2.1	2.0	1.8	1.7	1.6	1.4	1.3	1.1
85°	4.7	4.5	4.3	4.1	3.9	3.7	3.4	3.1	2.8	2.5	2.2
82.5°	6.7	6.4	6.1	5.8	5.5	5.1	4.8	4.5	4.1	3.8	3.3
80°	10.5	9.8	9.0	8.2	7.4	6.6	6.1	5.7	5.2	4.7	4.3
77.5°	14.6	13.5	12.4	11.4	10.4	9.3	8.2	7.2	6.3	5.7	5.1
75°	19.0	17.6	16.3	14.9	13.5	12.1	10.8	9.5	8.1	6.8	6.0
72.5°	26.5	23.9	21.2	18.5	16.9	15.2	13.5	11.8	10.2	8.6	7.0
70°	42.9	33.0	27.8	24.6	21.4	18.3	16.3	14.3	12.3	10.4	8.6
67.5°	67.2	56.1	44.6	32.7	27.1	23.4	19.5	16.9	14.6	12.3	10.2
65°	116.3	90.9	66.1	52.9	39.4	28.6	24.4	20.0	16.9	14.3	11.8
62.5°	172.5	137.1	108.2	78.5	58.0	42.7	29.1	24.4	19.5	16.3	13.5
60°	237.6	196.2	153.5	118.7	85.4	59.7	42.7	28.6	23.4	18.3	15.2
57.5°	307.0	257.6	210.5	163.0	122.2	85.4	58.0	39.4	27.1	21.4	16.9
55°	379.1	323.0	268.3	215.3	163.0	118.7	78.5	52.9	32.7	24.6	18.5
52.5°	460.9	392.1	328.4	268.3	210.5	153.5	108.2	66.1	44.6	27.8	21.2
50°	542.4	467.5	392.1	323.0	257.6	196.2	137.1	90.9	56.1	33.0	23.9
47.5°	623.2	542.4	460.9	379.1	307.0	237.6	172.5	116.3	67.2	42.9	26.5
45°	697.6	616.2	528.6	441.2	354.8	280.5	209.1	140.9	89.0	52.4	29.0
42.5°	768.3	684.5	595.4	501.3	408.7	322.9	244.3	171.5	110.1	61.6	34.6
40°	828.7	748.4	658.5	561.0	462.0	363.8	281.0	202.1	130.4	73.3	42.3
37.5°	886.0	805.4	715.7	618.2	513.5	410.6	316.4	231.2	151.5	90.4	49.5
35°	906.6	856.6	770.2	670.5	563.7	455.0	350.0	259.9	176.3	106.5	56.4
32.5°	923.6	895.0	816.0	718.4	611.2	497.1	385.7	288.6	199.6	121.7	62.9
30°	944.0	910.0	858.6	763.5	655.0	537.9	421.6	315.5	221.5	136.0	70.4
27.5°	964.4	924.0	892.8	801.7	693.7	576.0	455.0	340.5	241.8	151.0	81.9
25°	993.3	940.4	904.9	835.8	729.5	611.2	485.9	363.8	261.7	167.5	92.5
22.5°	1044.6	956.6	916.0	867.0	762.3	643.5	514.7	389.2	280.5	182.6	102.2
20°	1091.2	971.3	926.0	891.8	789.9	670.5	541.1	412.1	297.5	196.2	110.9
17.5°	1171.5	996.5	937.6	900.1	813.0	694.6	564.6	432.5	312.6	208.3	118.7
15°	1416.3	1030.3	948.2	907.3	833.2	715.7	585.1	450.3	325.7	218.8	125.4
12.5°	1626.0	1059.3	957.3	913.4	850.4	733.6	602.6	465.5	336.9	227.8	131.2
10°	1799.4	1083.2	964.7	918.5	864.6	748.4	617.0	478.0	346.1	235.1	135.9
7.5°	1935.4	1101.9	970.6	922.5	875.7	760.0	628.3	487.7	353.3	240.9	139.6
5°	2033.3	1115.4	974.8	925.3	883.7	768.3	636.3	494.7	358.5	245.0	142.2
2.5°	2092.2	1123.5	977.4	927.0	888.5	773.2	641.2	498.9	361.6	247.5	143.8
0°	2111.9	1126.2	978.2	927.6	890.1	774.9	642.8	500.3	362.6	248.3	144.3
-2.5°	2092.2	1123.5	977.4	927.0	888.5	773.2	641.2	498.9	361.6	247.5	143.8
-5°	2033.3	1115.4	974.8	925.3	883.7	768.3	636.3	494.7	358.5	245.0	142.2
-7.5°	1935.4	1101.9	970.6	922.5	875.7	760.0	628.3	487.7	353.3	240.9	139.6
-10°	1799.4	1083.2	964.7	918.5	864.6	748.4	617.0	478.0	346.1	235.1	135.9
-12.5°	1626.0	1059.3	957.3	913.4	850.4	733.6	602.6	465.5	336.9	227.8	131.2
-15°	1416.3	1030.3	948.2	907.3	833.2	715.7	585.1	450.3	325.7	218.8	125.4
-17.5°	1171.5	996.5	937.6	900.1	813.0	694.6	564.6	432.5	312.6	208.3	118.7
-20°	1091.2	971.3	926.0	891.8	789.9	670.5	541.1	412.1	297.5	196.2	110.9



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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°	1044.6	956.6	916.0	867.0	762.3	643.5	514.7	389.2	280.5	182.6	102.2
-25°	993.3	940.4	904.9	835.8	729.5	611.2	485.9	363.8	261.7	167.5	92.5
-27.5°	964.4	924.0	892.8	801.7	693.7	576.0	455.0	340.5	241.8	151.0	81.9
-30°	944.0	910.0	858.6	763.5	655.0	537.9	421.6	315.5	221.5	136.0	70.4
-32.5°	923.6	895.0	816.0	718.4	611.2	497.1	385.7	288.6	199.6	121.7	62.9
-35°	906.6	856.6	770.2	670.5	563.7	455.0	350.0	259.9	176.3	106.5	56.4
-37.5°	886.0	805.4	715.7	618.2	513.5	410.6	316.4	231.2	151.5	90.4	49.5
-40°	828.7	748.4	658.5	561.0	462.0	363.8	281.0	202.1	130.4	73.3	42.3
-42.5°	768.3	684.5	595.4	501.3	408.7	322.9	244.3	171.5	110.1	61.6	34.6
-45°	697.6	616.2	528.6	441.2	354.8	280.5	209.1	140.9	89.0	52.4	29.0
-47.5°	623.2	542.4	460.9	379.1	307.0	237.6	172.5	116.3	67.2	42.9	26.5
-50°	542.4	467.5	392.1	323.0	257.6	196.2	137.1	90.9	56.1	33.0	23.9
-52.5°	460.9	392.1	328.4	268.3	210.5	153.5	108.2	66.1	44.6	27.8	21.2
-55°	379.1	323.0	268.3	215.3	163.0	118.7	78.5	52.9	32.7	24.6	18.5
-57.5°	307.0	257.6	210.5	163.0	122.2	85.4	58.0	39.4	27.1	21.4	16.9
-60°	237.6	196.2	153.5	118.7	85.4	59.7	42.7	28.6	23.4	18.3	15.2
-62.5°	172.5	137.1	108.2	78.5	58.0	42.7	29.1	24.4	19.5	16.3	13.5
-65°	116.3	90.9	66.1	52.9	39.4	28.6	24.4	20.0	16.9	14.3	11.8
-67.5°	67.2	56.1	44.6	32.7	27.1	23.4	19.5	16.9	14.6	12.3	10.2
-70°	42.9	33.0	27.8	24.6	21.4	18.3	16.3	14.3	12.3	10.4	8.6
-72.5°	26.5	23.9	21.2	18.5	16.9	15.2	13.5	11.8	10.2	8.6	7.0
-75°	19.0	17.6	16.3	14.9	13.5	12.1	10.8	9.5	8.1	6.8	6.0
-77.5°	14.6	13.5	12.4	11.4	10.4	9.3	8.2	7.2	6.3	5.7	5.1
-80°	10.5	9.8	9.0	8.2	7.4	6.6	6.1	5.7	5.2	4.7	4.3
-82.5°	6.7	6.4	6.1	5.8	5.5	5.1	4.8	4.5	4.1	3.8	3.3
-85°	4.7	4.5	4.3	4.1	3.9	3.7	3.4	3.1	2.8	2.5	2.2
-87.5°	2.5	2.4	2.3	2.1	2.0	1.8	1.7	1.6	1.4	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	0.6	0.5	0.3	0.2	0.0
85°	1.9	1.6	1.3	1.0	0.6	0.3	0.0
82.5°	2.9	2.4	1.9	1.4	1.0	0.5	0.0
80°	3.8	3.2	2.6	1.9	1.3	0.6	0.0
77.5°	4.5	3.9	3.2	2.4	1.6	0.8	0.0
75°	5.3	4.5	3.8	2.9	1.9	1.0	0.0
72.5°	6.0	5.1	4.3	3.3	2.2	1.1	0.0
70°	6.8	5.7	4.7	3.8	2.5	1.3	0.0
67.5°	8.1	6.3	5.2	4.1	2.8	1.4	0.0
65°	9.5	7.2	5.7	4.5	3.1	1.6	0.0
62.5°	10.8	8.2	6.1	4.8	3.4	1.7	0.0
60°	12.1	9.3	6.6	5.1	3.7	1.8	0.0
57.5°	13.5	10.4	7.4	5.5	3.9	2.0	0.0
55°	14.9	11.4	8.2	5.8	4.1	2.1	0.0
52.5°	16.3	12.4	9.0	6.1	4.3	2.3	0.0
50°	17.6	13.5	9.8	6.4	4.5	2.4	0.0
47.5°	19.0	14.6	10.5	6.7	4.7	2.5	0.0
45°	21.2	15.6	11.2	7.3	4.9	2.6	0.0
42.5°	23.2	16.6	11.9	7.8	5.1	2.7	0.0
40°	25.2	17.5	12.6	8.3	5.2	2.8	0.0
37.5°	27.1	18.4	13.3	8.7	5.4	2.9	0.0
35°	28.8	19.7	14.0	9.1	5.5	3.0	0.0
32.5°	31.6	21.0	14.6	9.6	5.7	3.1	0.0
30°	36.8	22.3	15.2	9.9	5.8	3.2	0.0
27.5°	41.6	23.5	15.7	10.3	5.9	3.3	0.0
25°	46.0	24.6	16.2	10.6	6.1	3.4	0.0
22.5°	50.0	25.6	16.7	10.9	6.2	3.4	0.0
20°	53.6	26.5	17.1	11.2	6.2	3.5	0.0
17.5°	56.9	27.3	17.5	11.4	6.3	3.5	0.0
15°	59.7	28.0	17.8	11.6	6.4	3.6	0.0
12.5°	62.0	28.6	18.1	11.8	6.5	3.6	0.0
10°	64.0	29.1	18.3	11.9	6.5	3.6	0.0
7.5°	65.5	29.5	18.5	12.1	6.6	3.7	0.0
5°	66.6	29.8	18.6	12.1	6.6	3.7	0.0
2.5°	67.3	29.9	18.7	12.2	6.6	3.7	0.0
0°	67.5	30.0	18.7	12.2	6.6	3.7	0.0
-2.5°	67.3	29.9	18.7	12.2	6.6	3.7	0.0
-5°	66.6	29.8	18.6	12.1	6.6	3.7	0.0
-7.5°	65.5	29.5	18.5	12.1	6.6	3.7	0.0
-10°	64.0	29.1	18.3	11.9	6.5	3.6	0.0
-12.5°	62.0	28.6	18.1	11.8	6.5	3.6	0.0
-15°	59.7	28.0	17.8	11.6	6.4	3.6	0.0
-17.5°	56.9	27.3	17.5	11.4	6.3	3.5	0.0
-20°	53.6	26.5	17.1	11.2	6.2	3.5	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	50.0	25.6	16.7	10.9	6.2	3.4	0.0
-25°	46.0	24.6	16.2	10.6	6.1	3.4	0.0
-27.5°	41.6	23.5	15.7	10.3	5.9	3.3	0.0
-30°	36.8	22.3	15.2	9.9	5.8	3.2	0.0
-32.5°	31.6	21.0	14.6	9.6	5.7	3.1	0.0
-35°	28.8	19.7	14.0	9.1	5.5	3.0	0.0
-37.5°	27.1	18.4	13.3	8.7	5.4	2.9	0.0
-40°	25.2	17.5	12.6	8.3	5.2	2.8	0.0
-42.5°	23.2	16.6	11.9	7.8	5.1	2.7	0.0
-45°	21.2	15.6	11.2	7.3	4.9	2.6	0.0
-47.5°	19.0	14.6	10.5	6.7	4.7	2.5	0.0
-50°	17.6	13.5	9.8	6.4	4.5	2.4	0.0
-52.5°	16.3	12.4	9.0	6.1	4.3	2.3	0.0
-55°	14.9	11.4	8.2	5.8	4.1	2.1	0.0
-57.5°	13.5	10.4	7.4	5.5	3.9	2.0	0.0
-60°	12.1	9.3	6.6	5.1	3.7	1.8	0.0
-62.5°	10.8	8.2	6.1	4.8	3.4	1.7	0.0
-65°	9.5	7.2	5.7	4.5	3.1	1.6	0.0
-67.5°	8.1	6.3	5.2	4.1	2.8	1.4	0.0
-70°	6.8	5.7	4.7	3.8	2.5	1.3	0.0
-72.5°	6.0	5.1	4.3	3.3	2.2	1.1	0.0
-75°	5.3	4.5	3.8	2.9	1.9	1.0	0.0
-77.5°	4.5	3.9	3.2	2.4	1.6	0.8	0.0
-80°	3.8	3.2	2.6	1.9	1.3	0.6	0.0
-82.5°	2.9	2.4	1.9	1.4	1.0	0.5	0.0
-85°	1.9	1.6	1.3	1.0	0.6	0.3	0.0
-87.5°	1.0	0.8	0.6	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

