

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: P731199 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-70-2S-HEG**

Issue Date: 11/16/2023

Test Information

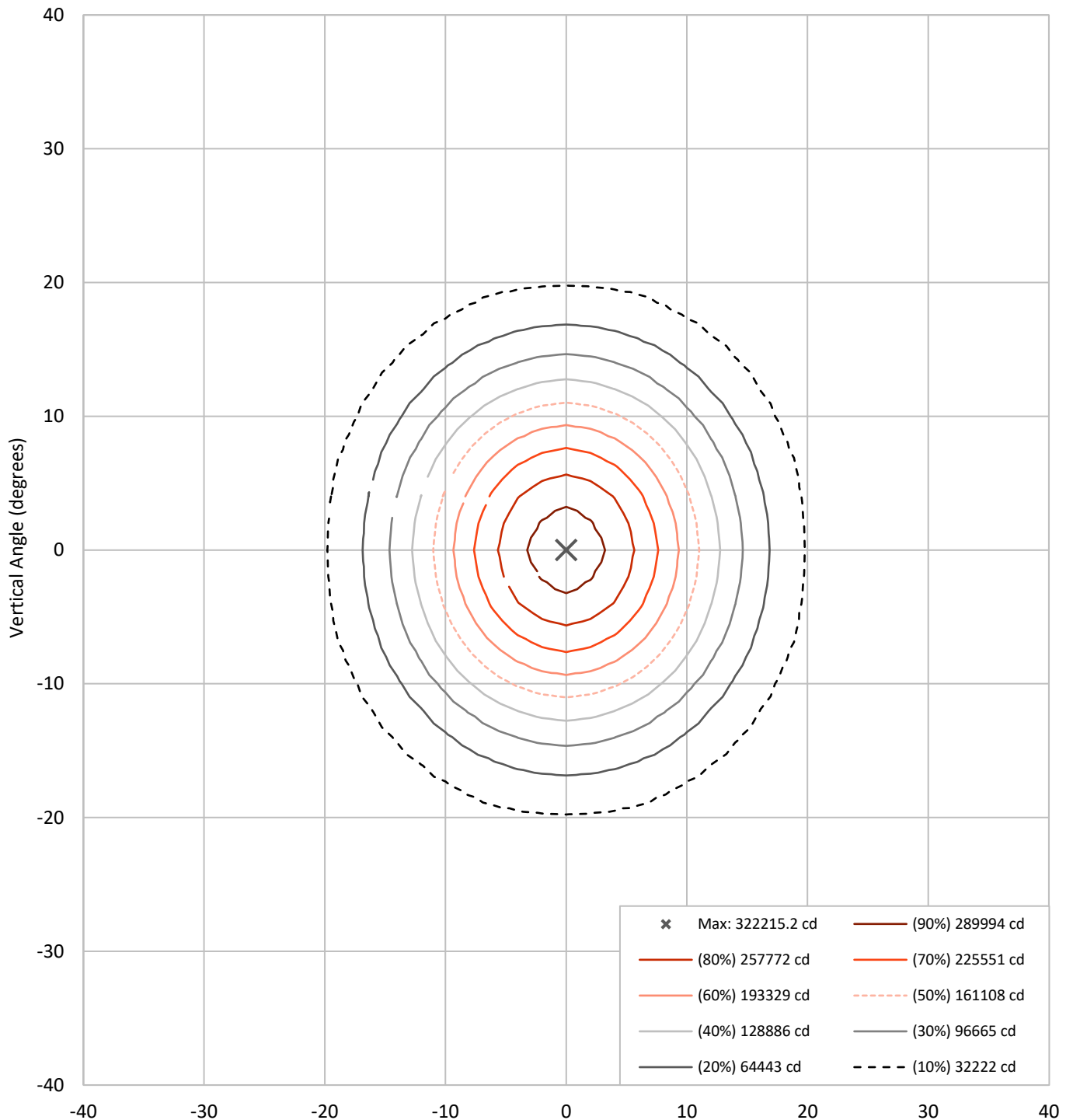
Test Method: LM-79-08
Report Number: P731199 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-40-70-2S-HEG
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 2S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	58041.1 lumens	Max Intensity:	322215.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	166.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	22°H x 22°V	Field Angle (10%):	39.6°H x 39.6°V
Beam Lumens:	25652.3 lumens	Field Lumens:	47642.4 lumens
Beam Efficiency:	44.2%	Field Efficiency:	82.1%
Input Watts (W):	348.5		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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Iso-Candela Plot





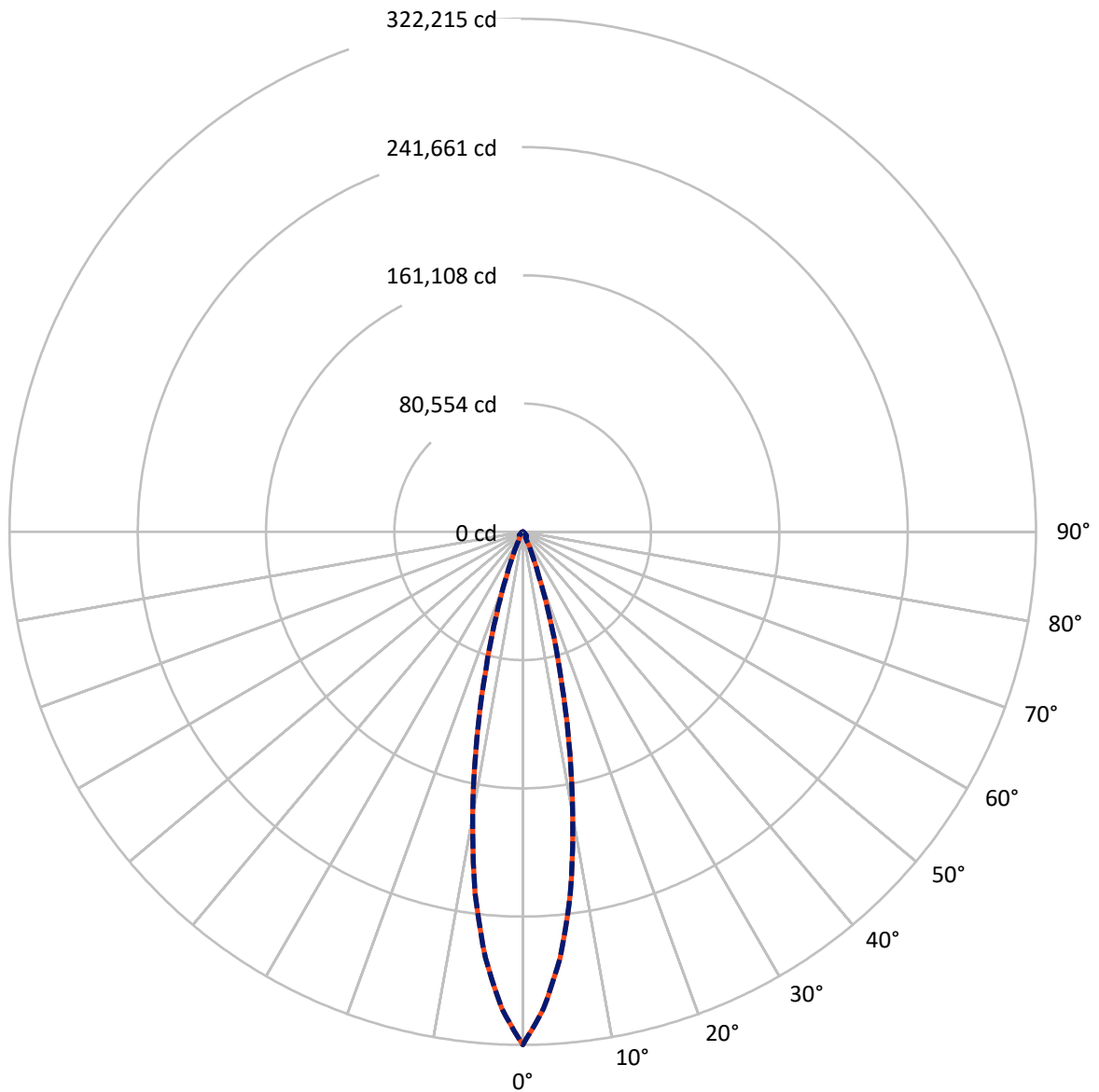
REPORT NUMBER: P731199 (CONVERTED FROM TYPE C PHOTOMETRY)
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Lumen Table

90	0.1		0.6		2.0		5.1		6.7		5.1		2.0		0.6		0.1		
80	0.1		0.6		2.0		5.1		6.7		5.1		2.0		0.6		0.1		
70	0.3	0.3	1.2	3.7	7.3	11.2	14.4	16.2	16.2	14.4	11.2	7.3	3.7	1.2	0.3	0.3	0.3	0.3	
60		0.9	4.3	10.3	17.8	24.8	29.6	32.0	32.0	29.6	24.8	17.8	10.3	4.3	0.9				
50	0.7	2.3	8.4	17.9	27.3	44.2	67.7	81.1	81.1	67.7	44.2	27.3	17.9	8.4	2.3	0.7	0.7	0.7	
40		3.9	12.6	23.6	52.2	89.6	104.9	110.3	110.3	104.9	89.6	52.2	23.6	12.6	3.9				
30	1.5	5.4	15.9	34.9	81.0	100.8	137.9	281.4	281.4	137.9	100.8	81.0	34.9	15.9	5.4	1.5	1.5	1.5	
20		6.5	17.7	50.3	89.1	129.8	820.9	2432.5	2432.5	820.9	129.8	89.1	50.3	17.7	6.5				
10	1.9	7.1	18.6	58.2	90.8	259.4	2370.7	6667.1	6667.1	2370.7	259.4	90.8	58.2	18.6	7.1	1.9	1.9	1.9	
0		7.1	18.6	58.2	90.8	259.4	2370.7	6667.1	6667.1	2370.7	259.4	90.8	58.2	18.6	7.1				
-10	1.5	6.5	17.7	50.3	89.1	129.8	820.9	2432.5	2432.5	820.9	129.8	89.1	50.3	17.7	6.5	1.5	1.5	1.5	
-20		5.4	15.9	34.9	81.0	100.8	137.9	281.4	281.4	137.9	100.8	81.0	34.9	15.9	5.4				
-30	0.7	3.9	12.6	23.6	52.2	89.6	104.9	110.3	110.3	104.9	89.6	52.2	23.6	12.6	3.9	0.7	0.7	0.7	
-40		2.3	8.4	17.9	27.3	44.2	67.7	81.1	81.1	67.7	44.2	27.3	17.9	8.4	2.3				
-50	0.3	0.9	4.3	10.3	17.8	24.8	29.6	32.0	32.0	29.6	24.8	17.8	10.3	4.3	0.9	0.3	0.3	0.3	
-60		0.3	1.2	3.7	7.3	11.2	14.4	16.2	16.2	14.4	11.2	7.3	3.7	1.2	0.3				
-70	0.1	0.6		2.0		5.1		6.7		5.1		2.0		0.6		0.1	0.1	0.1	
-80		0.6		2.0		5.1		6.7		5.1		2.0		0.6					
-90	0.1		0.6		2.0		5.1		6.7		5.1		2.0		0.6		0.1		
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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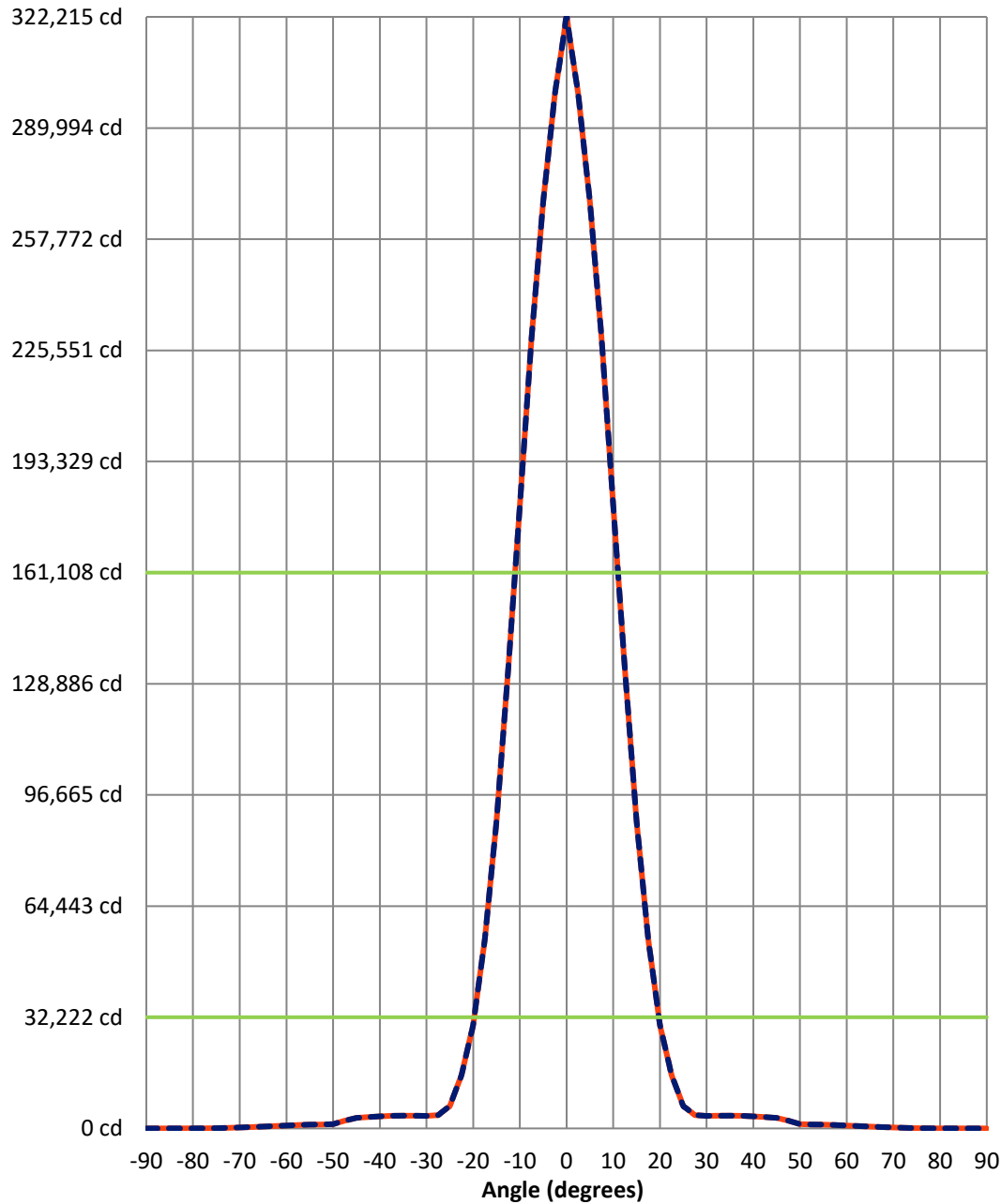
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 22°
 V Angle: 22°
 Lumens: 25652.3
 Efficiency: 44.2%

Field:
 H Angle: 39.6°
 V Angle: 39.6°
 Lumens: 47642.4
 Efficiency: 82.1%

Spill:
 Lumens: 10398.8
 Efficiency: 17.9%

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



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.3	0.5	0.8	1.0	1.3	1.6	1.8	2.1	2.3	2.5
85°	0.0	0.5	1.0	1.6	2.1	2.6	3.1	3.6	4.1	4.6	5.1
82.5°	0.0	0.8	1.6	2.3	3.1	3.9	4.6	5.4	6.1	6.4	6.8
80°	0.0	1.0	2.1	3.1	4.1	5.2	6.1	6.6	7.1	7.6	8.1
77.5°	0.0	1.3	2.6	3.9	5.2	6.2	6.9	7.5	8.1	8.7	9.4
75°	0.0	1.6	3.1	4.6	6.1	6.9	7.6	8.4	9.1	10.1	11.0
72.5°	0.0	1.8	3.6	5.4	6.6	7.5	8.4	9.3	10.4	11.6	12.7
70°	0.0	2.1	4.1	6.1	7.1	8.1	9.1	10.4	11.7	13.1	15.3
67.5°	0.0	2.3	4.6	6.4	7.6	8.7	10.1	11.6	13.1	15.6	18.1
65°	0.0	2.5	5.1	6.8	8.1	9.4	11.0	12.7	15.3	18.1	21.4
62.5°	0.0	2.8	5.5	7.1	8.5	10.2	12.0	14.3	17.4	20.9	26.1
60°	0.0	3.0	6.0	7.5	9.0	10.9	12.9	16.2	19.6	25.0	30.6
57.5°	0.0	3.2	6.2	7.8	9.6	11.7	14.4	18.0	22.9	29.0	42.4
55°	0.0	3.4	6.4	8.2	10.1	12.4	15.9	19.8	26.4	35.1	57.2
52.5°	0.0	3.7	6.6	8.5	10.7	13.2	17.4	22.7	29.8	48.1	71.7
50°	0.0	3.9	6.9	8.8	11.3	14.4	18.8	25.5	35.4	60.7	100.4
47.5°	0.0	4.1	7.1	9.1	11.8	15.5	20.3	28.3	46.2	72.9	129.9
45°	0.0	4.2	7.2	9.5	12.3	16.6	22.6	31.0	56.7	98.2	158.4
42.5°	0.0	4.4	7.4	9.8	12.8	17.7	24.8	37.2	66.7	122.7	191.5
40°	0.0	4.6	7.6	10.2	13.4	18.7	26.9	45.5	79.9	146.2	224.2
37.5°	0.0	4.8	7.8	10.5	14.2	19.7	28.9	53.5	99.8	170.1	255.4
35°	0.0	4.9	7.9	10.8	14.9	21.0	30.8	61.0	118.5	196.6	285.5
32.5°	0.0	5.1	8.1	11.1	15.6	22.5	33.9	68.1	136.2	221.5	314.9
30°	0.0	5.2	8.2	11.4	16.2	23.9	39.5	76.6	152.7	244.9	342.5
27.5°	0.0	5.3	8.3	11.6	16.8	25.2	44.8	90.0	169.5	266.6	368.2
25°	0.0	5.4	8.4	11.9	17.4	26.4	49.6	102.3	187.2	287.4	392.1
22.5°	0.0	5.5	8.5	12.1	17.8	27.4	54.0	113.5	203.3	306.7	419.0
20°	0.0	5.6	8.6	12.3	18.3	28.4	58.0	123.6	217.9	324.1	443.2
17.5°	0.0	5.7	8.7	12.4	18.7	29.3	61.5	132.6	230.8	339.6	464.7
15°	0.0	5.8	8.8	12.6	19.0	30.0	64.6	140.5	242.1	353.1	483.5
12.5°	0.0	5.9	8.9	12.7	19.3	30.6	67.2	147.1	251.6	364.6	499.6
10°	0.0	5.9	8.9	12.8	19.6	31.2	69.4	152.6	259.5	374.0	512.7
7.5°	0.0	5.9	8.9	12.9	19.8	31.6	71.0	156.9	265.7	381.4	523.0
5°	0.0	6.0	9.0	13.0	19.9	31.9	72.2	159.9	270.1	386.7	530.4
2.5°	0.0	6.0	9.0	13.0	20.0	32.0	73.0	161.8	272.7	389.8	534.8
0°	0.0	6.0	9.0	13.0	20.0	32.1	73.2	162.4	273.6	390.9	536.3
-2.5°	0.0	6.0	9.0	13.0	20.0	32.0	73.0	161.8	272.7	389.8	534.8
-5°	0.0	6.0	9.0	13.0	19.9	31.9	72.2	159.9	270.1	386.7	530.4
-7.5°	0.0	5.9	8.9	12.9	19.8	31.6	71.0	156.9	265.7	381.4	523.0
-10°	0.0	5.9	8.9	12.8	19.6	31.2	69.4	152.6	259.5	374.0	512.7
-12.5°	0.0	5.9	8.9	12.7	19.3	30.6	67.2	147.1	251.6	364.6	499.6
-15°	0.0	5.8	8.8	12.6	19.0	30.0	64.6	140.5	242.1	353.1	483.5
-17.5°	0.0	5.7	8.7	12.4	18.7	29.3	61.5	132.6	230.8	339.6	464.7
-20°	0.0	5.6	8.6	12.3	18.3	28.4	58.0	123.6	217.9	324.1	443.2



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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-HEG

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	5.5	8.5	12.1	17.8	27.4	54.0	113.5	203.3	306.7	419.0
-25°	0.0	5.4	8.4	11.9	17.4	26.4	49.6	102.3	187.2	287.4	392.1
-27.5°	0.0	5.3	8.3	11.6	16.8	25.2	44.8	90.0	169.5	266.6	368.2
-30°	0.0	5.2	8.2	11.4	16.2	23.9	39.5	76.6	152.7	244.9	342.5
-32.5°	0.0	5.1	8.1	11.1	15.6	22.5	33.9	68.1	136.2	221.5	314.9
-35°	0.0	4.9	7.9	10.8	14.9	21.0	30.8	61.0	118.5	196.6	285.5
-37.5°	0.0	4.8	7.8	10.5	14.2	19.7	28.9	53.5	99.8	170.1	255.4
-40°	0.0	4.6	7.6	10.2	13.4	18.7	26.9	45.5	79.9	146.2	224.2
-42.5°	0.0	4.4	7.4	9.8	12.8	17.7	24.8	37.2	66.7	122.7	191.5
-45°	0.0	4.2	7.2	9.5	12.3	16.6	22.6	31.0	56.7	98.2	158.4
-47.5°	0.0	4.1	7.1	9.1	11.8	15.5	20.3	28.3	46.2	72.9	129.9
-50°	0.0	3.9	6.9	8.8	11.3	14.4	18.8	25.5	35.4	60.7	100.4
-52.5°	0.0	3.7	6.6	8.5	10.7	13.2	17.4	22.7	29.8	48.1	71.7
-55°	0.0	3.4	6.4	8.2	10.1	12.4	15.9	19.8	26.4	35.1	57.2
-57.5°	0.0	3.2	6.2	7.8	9.6	11.7	14.4	18.0	22.9	29.0	42.4
-60°	0.0	3.0	6.0	7.5	9.0	10.9	12.9	16.2	19.6	25.0	30.6
-62.5°	0.0	2.8	5.5	7.1	8.5	10.2	12.0	14.3	17.4	20.9	26.1
-65°	0.0	2.5	5.1	6.8	8.1	9.4	11.0	12.7	15.3	18.1	21.4
-67.5°	0.0	2.3	4.6	6.4	7.6	8.7	10.1	11.6	13.1	15.6	18.1
-70°	0.0	2.1	4.1	6.1	7.1	8.1	9.1	10.4	11.7	13.1	15.3
-72.5°	0.0	1.8	3.6	5.4	6.6	7.5	8.4	9.3	10.4	11.6	12.7
-75°	0.0	1.6	3.1	4.6	6.1	6.9	7.6	8.4	9.1	10.1	11.0
-77.5°	0.0	1.3	2.6	3.9	5.2	6.2	6.9	7.5	8.1	8.7	9.4
-80°	0.0	1.0	2.1	3.1	4.1	5.2	6.1	6.6	7.1	7.6	8.1
-82.5°	0.0	0.8	1.6	2.3	3.1	3.9	4.6	5.4	6.1	6.4	6.8
-85°	0.0	0.5	1.0	1.6	2.1	2.6	3.1	3.6	4.1	4.6	5.1
-87.5°	0.0	0.3	0.5	0.8	1.0	1.3	1.6	1.8	2.1	2.3	2.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	3.0	3.2	3.4	3.7	3.9	4.1	4.2	4.4	4.6	4.8
85°	5.5	6.0	6.2	6.4	6.6	6.9	7.1	7.2	7.4	7.6	7.8
82.5°	7.1	7.5	7.8	8.2	8.5	8.8	9.1	9.5	9.8	10.2	10.5
80°	8.5	9.0	9.6	10.1	10.7	11.3	11.8	12.3	12.8	13.4	14.2
77.5°	10.2	10.9	11.7	12.4	13.2	14.4	15.5	16.6	17.7	18.7	19.7
75°	12.0	12.9	14.4	15.9	17.4	18.8	20.3	22.6	24.8	26.9	28.9
72.5°	14.3	16.2	18.0	19.8	22.7	25.5	28.3	31.0	37.2	45.5	53.5
70°	17.4	19.6	22.9	26.4	29.8	35.4	46.2	56.7	66.7	79.9	99.8
67.5°	20.9	25.0	29.0	35.1	48.1	60.7	72.9	98.2	122.7	146.2	170.1
65°	26.1	30.6	42.4	57.2	71.7	100.4	129.9	158.4	191.5	224.2	255.4
62.5°	31.2	46.1	62.8	86.0	120.5	154.0	192.5	231.6	269.3	307.1	343.5
60°	46.1	64.6	94.0	132.6	172.2	217.9	262.2	306.7	350.2	392.1	441.5
57.5°	62.8	94.0	136.7	182.4	233.2	283.2	333.9	382.9	439.6	495.9	550.3
55°	86.0	132.6	182.4	238.3	294.1	350.3	408.3	473.9	537.3	600.7	661.5
52.5°	120.5	172.2	233.2	294.1	355.8	422.1	494.7	566.4	637.3	704.9	767.8
50°	154.0	217.9	283.2	350.3	422.1	501.7	581.0	659.4	733.5	803.8	874.3
47.5°	192.5	262.2	333.9	408.3	494.7	581.0	666.8	747.9	825.7	906.0	983.7
45°	231.6	306.7	382.9	473.9	566.4	659.4	747.9	833.0	921.9	1002.3	1060.3
42.5°	269.3	350.2	439.6	537.3	637.3	733.5	825.7	921.9	1008.0	1071.8	1108.8
40°	307.1	392.1	495.9	600.7	704.9	803.8	906.0	1002.3	1071.8	1110.6	1129.8
37.5°	343.5	441.5	550.3	661.5	767.8	874.3	983.7	1060.3	1108.8	1129.8	1202.5
35°	378.0	488.5	603.6	718.1	827.9	943.8	1037.5	1103.7	1126.2	1195.9	1461.6
32.5°	415.3	532.9	654.1	770.8	888.8	1003.6	1087.0	1119.3	1175.9	1347.9	2044.7
30°	453.2	576.2	701.0	820.4	946.6	1047.3	1109.0	1143.2	1234.6	1870.7	2534.5
27.5°	488.5	616.7	743.6	869.4	997.3	1088.2	1121.9	1194.8	1584.7	2342.5	2963.5
25°	521.1	654.1	783.0	915.6	1032.4	1106.7	1142.9	1243.0	2016.9	2719.1	3145.9
22.5°	551.6	688.3	819.2	958.0	1064.7	1117.0	1184.1	1563.9	2384.6	3057.1	3257.6
20°	579.6	718.1	853.3	994.3	1093.9	1126.3	1221.7	1902.7	2681.6	3152.4	3349.3
17.5°	604.6	744.6	884.6	1018.3	1104.9	1145.5	1295.6	2206.9	2949.0	3238.4	3427.2
15°	626.4	767.8	912.1	1039.3	1111.7	1172.7	1542.5	2431.6	3091.7	3311.0	3495.8
12.5°	644.9	787.6	935.5	1057.3	1117.4	1196.0	1754.1	2618.3	3152.1	3365.9	3544.4
10°	660.2	803.8	954.7	1072.1	1122.2	1215.3	1929.0	2773.0	3202.1	3411.5	3584.9
7.5°	672.2	816.6	969.8	1083.6	1125.9	1230.3	2066.3	2894.5	3241.5	3447.4	3616.9
5°	680.7	825.7	980.6	1091.9	1128.6	1241.2	2165.0	2981.9	3269.9	3473.3	3640.0
2.5°	685.9	831.2	987.1	1096.9	1130.2	1247.7	2224.4	3034.6	3287.0	3489.0	3653.9
0°	687.6	833.0	989.3	1098.6	1130.7	1249.9	2244.3	3052.2	3292.7	3494.2	3658.6
-2.5°	685.9	831.2	987.1	1096.9	1130.2	1247.7	2224.4	3034.6	3287.0	3489.0	3653.9
-5°	680.7	825.7	980.6	1091.9	1128.6	1241.2	2165.0	2981.9	3269.9	3473.3	3640.0
-7.5°	672.2	816.6	969.8	1083.6	1125.9	1230.3	2066.3	2894.5	3241.5	3447.4	3616.9
-10°	660.2	803.8	954.7	1072.1	1122.2	1215.3	1929.0	2773.0	3202.1	3411.5	3584.9
-12.5°	644.9	787.6	935.5	1057.3	1117.4	1196.0	1754.1	2618.3	3152.1	3365.9	3544.4
-15°	626.4	767.8	912.1	1039.3	1111.7	1172.7	1542.5	2431.6	3091.7	3311.0	3495.8
-17.5°	604.6	744.6	884.6	1018.3	1104.9	1145.5	1295.6	2206.9	2949.0	3238.4	3427.2
-20°	579.6	718.1	853.3	994.3	1093.9	1126.3	1221.7	1902.7	2681.6	3152.4	3349.3



REPORT NUMBER: P731199 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	551.6	688.3	819.2	958.0	1064.7	1117.0	1184.1	1563.9	2384.6	3057.1	3257.6
-25°	521.1	654.1	783.0	915.6	1032.4	1106.7	1142.9	1243.0	2016.9	2719.1	3145.9
-27.5°	488.5	616.7	743.6	869.4	997.3	1088.2	1121.9	1194.8	1584.7	2342.5	2963.5
-30°	453.2	576.2	701.0	820.4	946.6	1047.3	1109.0	1143.2	1234.6	1870.7	2534.5
-32.5°	415.3	532.9	654.1	770.8	888.8	1003.6	1087.0	1119.3	1175.9	1347.9	2044.7
-35°	378.0	488.5	603.6	718.1	827.9	943.8	1037.5	1103.7	1126.2	1195.9	1461.6
-37.5°	343.5	441.5	550.3	661.5	767.8	874.3	983.7	1060.3	1108.8	1129.8	1202.5
-40°	307.1	392.1	495.9	600.7	704.9	803.8	906.0	1002.3	1071.8	1110.6	1129.8
-42.5°	269.3	350.2	439.6	537.3	637.3	733.5	825.7	921.9	1008.0	1071.8	1108.8
-45°	231.6	306.7	382.9	473.9	566.4	659.4	747.9	833.0	921.9	1002.3	1060.3
-47.5°	192.5	262.2	333.9	408.3	494.7	581.0	666.8	747.9	825.7	906.0	983.7
-50°	154.0	217.9	283.2	350.3	422.1	501.7	581.0	659.4	733.5	803.8	874.3
-52.5°	120.5	172.2	233.2	294.1	355.8	422.1	494.7	566.4	637.3	704.9	767.8
-55°	86.0	132.6	182.4	238.3	294.1	350.3	408.3	473.9	537.3	600.7	661.5
-57.5°	62.8	94.0	136.7	182.4	233.2	283.2	333.9	382.9	439.6	495.9	550.3
-60°	46.1	64.6	94.0	132.6	172.2	217.9	262.2	306.7	350.2	392.1	441.5
-62.5°	31.2	46.1	62.8	86.0	120.5	154.0	192.5	231.6	269.3	307.1	343.5
-65°	26.1	30.6	42.4	57.2	71.7	100.4	129.9	158.4	191.5	224.2	255.4
-67.5°	20.9	25.0	29.0	35.1	48.1	60.7	72.9	98.2	122.7	146.2	170.1
-70°	17.4	19.6	22.9	26.4	29.8	35.4	46.2	56.7	66.7	79.9	99.8
-72.5°	14.3	16.2	18.0	19.8	22.7	25.5	28.3	31.0	37.2	45.5	53.5
-75°	12.0	12.9	14.4	15.9	17.4	18.8	20.3	22.6	24.8	26.9	28.9
-77.5°	10.2	10.9	11.7	12.4	13.2	14.4	15.5	16.6	17.7	18.7	19.7
-80°	8.5	9.0	9.6	10.1	10.7	11.3	11.8	12.3	12.8	13.4	14.2
-82.5°	7.1	7.5	7.8	8.2	8.5	8.8	9.1	9.5	9.8	10.2	10.5
-85°	5.5	6.0	6.2	6.4	6.6	6.9	7.1	7.2	7.4	7.6	7.8
-87.5°	2.8	3.0	3.2	3.4	3.7	3.9	4.1	4.2	4.4	4.6	4.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	5.9
85°	7.9	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	8.9
82.5°	10.8	11.1	11.4	11.6	11.9	12.1	12.3	12.4	12.6	12.7	12.8
80°	14.9	15.6	16.2	16.8	17.4	17.8	18.3	18.7	19.0	19.3	19.6
77.5°	21.0	22.5	23.9	25.2	26.4	27.4	28.4	29.3	30.0	30.6	31.2
75°	30.8	33.9	39.5	44.8	49.6	54.0	58.0	61.5	64.6	67.2	69.4
72.5°	61.0	68.1	76.6	90.0	102.3	113.5	123.6	132.6	140.5	147.1	152.6
70°	118.5	136.2	152.7	169.5	187.2	203.3	217.9	230.8	242.1	251.6	259.5
67.5°	196.6	221.5	244.9	266.6	287.4	306.7	324.1	339.6	353.1	364.6	374.0
65°	285.5	314.9	342.5	368.2	392.1	419.0	443.2	464.7	483.5	499.6	512.7
62.5°	378.0	415.3	453.2	488.5	521.1	551.6	579.6	604.6	626.4	644.9	660.2
60°	488.5	532.9	576.2	616.7	654.1	688.3	718.1	744.6	767.8	787.6	803.8
57.5°	603.6	654.1	701.0	743.6	783.0	819.2	853.3	884.6	912.1	935.5	954.7
55°	718.1	770.8	820.4	869.4	915.6	958.0	994.3	1018.3	1039.3	1057.3	1072.1
52.5°	827.9	888.8	946.6	997.3	1032.4	1064.7	1093.9	1104.9	1111.7	1117.4	1122.2
50°	943.8	1003.6	1047.3	1088.2	1106.7	1117.0	1126.3	1145.5	1172.7	1196.0	1215.3
47.5°	1037.5	1087.0	1109.0	1121.9	1142.9	1184.1	1221.7	1295.6	1542.5	1754.1	1929.0
45°	1103.7	1119.3	1143.2	1194.8	1243.0	1563.9	1902.7	2206.9	2431.6	2618.3	2773.0
42.5°	1126.2	1175.9	1234.6	1584.7	2016.9	2384.6	2681.6	2949.0	3091.7	3152.1	3202.1
40°	1195.9	1347.9	1870.7	2342.5	2719.1	3057.1	3152.4	3238.4	3311.0	3365.9	3411.5
37.5°	1461.6	2044.7	2534.5	2963.5	3145.9	3257.6	3349.3	3427.2	3495.8	3544.4	3584.9
35°	2103.1	2631.7	3070.2	3206.3	3327.9	3428.3	3516.0	3584.6	3645.6	3666.6	3675.5
32.5°	2631.7	3085.1	3236.9	3367.3	3482.2	3572.2	3653.5	3672.5	3685.8	3691.0	3689.8
30°	3070.2	3236.9	3380.6	3506.7	3606.7	3667.1	3684.7	3690.6	3688.9	3682.4	3663.4
27.5°	3206.3	3367.3	3506.7	3618.2	3671.9	3691.6	3689.4	3681.2	3653.2	3628.6	3710.7
25°	3327.9	3482.2	3606.7	3671.9	3691.3	3688.7	3666.6	3633.0	3731.7	3838.7	4597.1
22.5°	3428.3	3572.2	3667.1	3691.6	3688.7	3661.6	3651.7	3796.0	4578.3	5891.3	8238.3
20°	3516.0	3653.5	3684.7	3689.4	3666.6	3651.7	3817.8	5092.4	7170.2	12065.5	16813.0
17.5°	3584.6	3672.5	3690.6	3681.2	3633.0	3796.0	5092.4	8105.9	14049.7	21925.4	29581.7
15°	3645.6	3685.8	3688.9	3653.2	3731.7	4578.3	7170.2	14049.7	23679.0	35659.6	50244.8
12.5°	3666.6	3691.0	3682.4	3628.6	3838.7	5891.3	12065.5	21925.4	35659.6	53787.2	75985.0
10°	3675.5	3689.8	3663.4	3710.7	4597.1	8238.3	16813.0	29581.7	50244.8	75985.0	103773.0
7.5°	3682.5	3688.9	3648.4	3776.7	5415.1	11324.1	22423.8	40028.8	65376.2	96548.9	133433.6
5°	3687.6	3688.2	3637.4	3824.9	6014.8	13599.0	26592.3	48111.7	78242.3	115473.6	158488.2
2.5°	3690.7	3687.8	3630.7	3854.2	6381.1	14994.7	29164.6	53140.3	86343.2	128401.4	174824.7
0°	3691.7	3687.7	3628.5	3864.1	6504.3	15465.3	30034.6	54848.9	89114.4	133000.6	180553.3
-2.5°	3690.7	3687.8	3630.7	3854.2	6381.1	14994.7	29164.6	53140.3	86343.2	128401.4	174824.7
-5°	3687.6	3688.2	3637.4	3824.9	6014.8	13599.0	26592.3	48111.7	78242.3	115473.6	158488.2
-7.5°	3682.5	3688.9	3648.4	3776.7	5415.1	11324.1	22423.8	40028.8	65376.2	96548.9	133433.6
-10°	3675.5	3689.8	3663.4	3710.7	4597.1	8238.3	16813.0	29581.7	50244.8	75985.0	103773.0
-12.5°	3666.6	3691.0	3682.4	3628.6	3838.7	5891.3	12065.5	21925.4	35659.6	53787.2	75985.0
-15°	3645.6	3685.8	3688.9	3653.2	3731.7	4578.3	7170.2	14049.7	23679.0	35659.6	50244.8
-17.5°	3584.6	3672.5	3690.6	3681.2	3633.0	3796.0	5092.4	8105.9	14049.7	21925.4	29581.7
-20°	3516.0	3653.5	3684.7	3689.4	3666.6	3651.7	3817.8	5092.4	7170.2	12065.5	16813.0



REPORT NUMBER: P731199 (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°	3428.3	3572.2	3667.1	3691.6	3688.7	3661.6	3651.7	3796.0	4578.3	5891.3	8238.3
-25°	3327.9	3482.2	3606.7	3671.9	3691.3	3688.7	3666.6	3633.0	3731.7	3838.7	4597.1
-27.5°	3206.3	3367.3	3506.7	3618.2	3671.9	3691.6	3689.4	3681.2	3653.2	3628.6	3710.7
-30°	3070.2	3236.9	3380.6	3506.7	3606.7	3667.1	3684.7	3690.6	3688.9	3682.4	3663.4
-32.5°	2631.7	3085.1	3236.9	3367.3	3482.2	3572.2	3653.5	3672.5	3685.8	3691.0	3689.8
-35°	2103.1	2631.7	3070.2	3206.3	3327.9	3428.3	3516.0	3584.6	3645.6	3666.6	3675.5
-37.5°	1461.6	2044.7	2534.5	2963.5	3145.9	3257.6	3349.3	3427.2	3495.8	3544.4	3584.9
-40°	1195.9	1347.9	1870.7	2342.5	2719.1	3057.1	3152.4	3238.4	3311.0	3365.9	3411.5
-42.5°	1126.2	1175.9	1234.6	1584.7	2016.9	2384.6	2681.6	2949.0	3091.7	3152.1	3202.1
-45°	1103.7	1119.3	1143.2	1194.8	1243.0	1563.9	1902.7	2206.9	2431.6	2618.3	2773.0
-47.5°	1037.5	1087.0	1109.0	1121.9	1142.9	1184.1	1221.7	1295.6	1542.5	1754.1	1929.0
-50°	943.8	1003.6	1047.3	1088.2	1106.7	1117.0	1126.3	1145.5	1172.7	1196.0	1215.3
-52.5°	827.9	888.8	946.6	997.3	1032.4	1064.7	1093.9	1104.9	1111.7	1117.4	1122.2
-55°	718.1	770.8	820.4	869.4	915.6	958.0	994.3	1018.3	1039.3	1057.3	1072.1
-57.5°	603.6	654.1	701.0	743.6	783.0	819.2	853.3	884.6	912.1	935.5	954.7
-60°	488.5	532.9	576.2	616.7	654.1	688.3	718.1	744.6	767.8	787.6	803.8
-62.5°	378.0	415.3	453.2	488.5	521.1	551.6	579.6	604.6	626.4	644.9	660.2
-65°	285.5	314.9	342.5	368.2	392.1	419.0	443.2	464.7	483.5	499.6	512.7
-67.5°	196.6	221.5	244.9	266.6	287.4	306.7	324.1	339.6	353.1	364.6	374.0
-70°	118.5	136.2	152.7	169.5	187.2	203.3	217.9	230.8	242.1	251.6	259.5
-72.5°	61.0	68.1	76.6	90.0	102.3	113.5	123.6	132.6	140.5	147.1	152.6
-75°	30.8	33.9	39.5	44.8	49.6	54.0	58.0	61.5	64.6	67.2	69.4
-77.5°	21.0	22.5	23.9	25.2	26.4	27.4	28.4	29.3	30.0	30.6	31.2
-80°	14.9	15.6	16.2	16.8	17.4	17.8	18.3	18.7	19.0	19.3	19.6
-82.5°	10.8	11.1	11.4	11.6	11.9	12.1	12.3	12.4	12.6	12.7	12.8
-85°	7.9	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	8.9
-87.5°	4.9	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	5.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731199 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	6.0	6.0	6.0	6.0	6.0	5.9	5.9	5.9	5.8	5.7
85°	8.9	9.0	9.0	9.0	9.0	9.0	8.9	8.9	8.9	8.8	8.7
82.5°	12.9	13.0	13.0	13.0	13.0	13.0	12.9	12.8	12.7	12.6	12.4
80°	19.8	19.9	20.0	20.0	20.0	19.9	19.8	19.6	19.3	19.0	18.7
77.5°	31.6	31.9	32.0	32.1	32.0	31.9	31.6	31.2	30.6	30.0	29.3
75°	71.0	72.2	73.0	73.2	73.0	72.2	71.0	69.4	67.2	64.6	61.5
72.5°	156.9	159.9	161.8	162.4	161.8	159.9	156.9	152.6	147.1	140.5	132.6
70°	265.7	270.1	272.7	273.6	272.7	270.1	265.7	259.5	251.6	242.1	230.8
67.5°	381.4	386.7	389.8	390.9	389.8	386.7	381.4	374.0	364.6	353.1	339.6
65°	523.0	530.4	534.8	536.3	534.8	530.4	523.0	512.7	499.6	483.5	464.7
62.5°	672.2	680.7	685.9	687.6	685.9	680.7	672.2	660.2	644.9	626.4	604.6
60°	816.6	825.7	831.2	833.0	831.2	825.7	816.6	803.8	787.6	767.8	744.6
57.5°	969.8	980.6	987.1	989.3	987.1	980.6	969.8	954.7	935.5	912.1	884.6
55°	1083.6	1091.9	1096.9	1098.6	1096.9	1091.9	1083.6	1072.1	1057.3	1039.3	1018.3
52.5°	1125.9	1128.6	1130.2	1130.7	1130.2	1128.6	1125.9	1122.2	1117.4	1111.7	1104.9
50°	1230.3	1241.2	1247.7	1249.9	1247.7	1241.2	1230.3	1215.3	1196.0	1172.7	1145.5
47.5°	2066.3	2165.0	2224.4	2244.3	2224.4	2165.0	2066.3	1929.0	1754.1	1542.5	1295.6
45°	2894.5	2981.9	3034.6	3052.2	3034.6	2981.9	2894.5	2773.0	2618.3	2431.6	2206.9
42.5°	3241.5	3269.9	3287.0	3292.7	3287.0	3269.9	3241.5	3202.1	3152.1	3091.7	2949.0
40°	3447.4	3473.3	3489.0	3494.2	3489.0	3473.3	3447.4	3411.5	3365.9	3311.0	3238.4
37.5°	3616.9	3640.0	3653.9	3658.6	3653.9	3640.0	3616.9	3584.9	3544.4	3495.8	3427.2
35°	3682.5	3687.6	3690.7	3691.7	3690.7	3687.6	3682.5	3675.5	3666.6	3645.6	3584.6
32.5°	3688.9	3688.2	3687.8	3687.7	3687.8	3688.2	3688.9	3689.8	3691.0	3685.8	3672.5
30°	3648.4	3637.4	3630.7	3628.5	3630.7	3637.4	3648.4	3663.4	3682.4	3688.9	3690.6
27.5°	3776.7	3824.9	3854.2	3864.1	3854.2	3824.9	3776.7	3710.7	3628.6	3653.2	3681.2
25°	5415.1	6014.8	6381.1	6504.3	6381.1	6014.8	5415.1	4597.1	3838.7	3731.7	3633.0
22.5°	11324.1	13599.0	14994.7	15465.3	14994.7	13599.0	11324.1	8238.3	5891.3	4578.3	3796.0
20°	22423.8	26592.3	29164.6	30034.6	29164.6	26592.3	22423.8	16813.0	12065.5	7170.2	5092.4
17.5°	40028.8	48111.7	53140.3	54848.9	53140.3	48111.7	40028.8	29581.7	21925.4	14049.7	8105.9
15°	65376.2	78242.3	86343.2	89114.4	86343.2	78242.3	65376.2	50244.8	35659.6	23679.0	14049.7
12.5°	96548.9	115473.6	128401.4	133000.6	128401.4	115473.6	96548.9	75985.0	53787.2	35659.6	21925.4
10°	133433.6	158488.2	174824.7	180553.3	174824.7	158488.2	133433.6	103773.0	75985.0	50244.8	29581.7
7.5°	169433.5	199179.0	221119.9	229060.8	221119.9	199179.0	169433.5	133433.6	96548.9	65376.2	40028.8
5°	199179.0	237592.0	261144.9	268590.1	261144.9	237592.0	199179.0	158488.2	115473.6	78242.3	48111.7
2.5°	221119.9	261144.9	286605.4	299807.0	286605.4	261144.9	221119.9	174824.7	128401.4	86343.2	53140.3
0°	229060.8	268590.1	299807.0	322215.2	299807.0	268590.1	229060.8	180553.3	133000.6	89114.4	54848.9
-2.5°	221119.9	261144.9	286605.4	299807.0	286605.4	261144.9	221119.9	174824.7	128401.4	86343.2	53140.3
-5°	199179.0	237592.0	261144.9	268590.1	261144.9	237592.0	199179.0	158488.2	115473.6	78242.3	48111.7
-7.5°	169433.5	199179.0	221119.9	229060.8	221119.9	199179.0	169433.5	133433.6	96548.9	65376.2	40028.8
-10°	133433.6	158488.2	174824.7	180553.3	174824.7	158488.2	133433.6	103773.0	75985.0	50244.8	29581.7
-12.5°	96548.9	115473.6	128401.4	133000.6	128401.4	115473.6	96548.9	75985.0	53787.2	35659.6	21925.4
-15°	65376.2	78242.3	86343.2	89114.4	86343.2	78242.3	65376.2	50244.8	35659.6	23679.0	14049.7
-17.5°	40028.8	48111.7	53140.3	54848.9	53140.3	48111.7	40028.8	29581.7	21925.4	14049.7	8105.9
-20°	22423.8	26592.3	29164.6	30034.6	29164.6	26592.3	22423.8	16813.0	12065.5	7170.2	5092.4



REPORT NUMBER: P731199 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	11324.1	13599.0	14994.7	15465.3	14994.7	13599.0	11324.1	8238.3	5891.3	4578.3	3796.0
-25°	5415.1	6014.8	6381.1	6504.3	6381.1	6014.8	5415.1	4597.1	3838.7	3731.7	3633.0
-27.5°	3776.7	3824.9	3854.2	3864.1	3854.2	3824.9	3776.7	3710.7	3628.6	3653.2	3681.2
-30°	3648.4	3637.4	3630.7	3628.5	3630.7	3637.4	3648.4	3663.4	3682.4	3688.9	3690.6
-32.5°	3688.9	3688.2	3687.8	3687.7	3687.8	3688.2	3688.9	3689.8	3691.0	3685.8	3672.5
-35°	3682.5	3687.6	3690.7	3691.7	3690.7	3687.6	3682.5	3675.5	3666.6	3645.6	3584.6
-37.5°	3616.9	3640.0	3653.9	3658.6	3653.9	3640.0	3616.9	3584.9	3544.4	3495.8	3427.2
-40°	3447.4	3473.3	3489.0	3494.2	3489.0	3473.3	3447.4	3411.5	3365.9	3311.0	3238.4
-42.5°	3241.5	3269.9	3287.0	3292.7	3287.0	3269.9	3241.5	3202.1	3152.1	3091.7	2949.0
-45°	2894.5	2981.9	3034.6	3052.2	3034.6	2981.9	2894.5	2773.0	2618.3	2431.6	2206.9
-47.5°	2066.3	2165.0	2224.4	2244.3	2224.4	2165.0	2066.3	1929.0	1754.1	1542.5	1295.6
-50°	1230.3	1241.2	1247.7	1249.9	1247.7	1241.2	1230.3	1215.3	1196.0	1172.7	1145.5
-52.5°	1125.9	1128.6	1130.2	1130.7	1130.2	1128.6	1125.9	1122.2	1117.4	1111.7	1104.9
-55°	1083.6	1091.9	1096.9	1098.6	1096.9	1091.9	1083.6	1072.1	1057.3	1039.3	1018.3
-57.5°	969.8	980.6	987.1	989.3	987.1	980.6	969.8	954.7	935.5	912.1	884.6
-60°	816.6	825.7	831.2	833.0	831.2	825.7	816.6	803.8	787.6	767.8	744.6
-62.5°	672.2	680.7	685.9	687.6	685.9	680.7	672.2	660.2	644.9	626.4	604.6
-65°	523.0	530.4	534.8	536.3	534.8	530.4	523.0	512.7	499.6	483.5	464.7
-67.5°	381.4	386.7	389.8	390.9	389.8	386.7	381.4	374.0	364.6	353.1	339.6
-70°	265.7	270.1	272.7	273.6	272.7	270.1	265.7	259.5	251.6	242.1	230.8
-72.5°	156.9	159.9	161.8	162.4	161.8	159.9	156.9	152.6	147.1	140.5	132.6
-75°	71.0	72.2	73.0	73.2	73.0	72.2	71.0	69.4	67.2	64.6	61.5
-77.5°	31.6	31.9	32.0	32.1	32.0	31.9	31.6	31.2	30.6	30.0	29.3
-80°	19.8	19.9	20.0	20.0	20.0	19.9	19.8	19.6	19.3	19.0	18.7
-82.5°	12.9	13.0	13.0	13.0	13.0	13.0	12.9	12.8	12.7	12.6	12.4
-85°	8.9	9.0	9.0	9.0	9.0	9.0	8.9	8.9	8.9	8.8	8.7
-87.5°	5.9	6.0	6.0	6.0	6.0	6.0	5.9	5.9	5.9	5.8	5.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.6	5.5	5.4	5.3	5.2	5.1	4.9	4.8	4.6	4.4	4.2
85°	8.6	8.5	8.4	8.3	8.2	8.1	7.9	7.8	7.6	7.4	7.2
82.5°	12.3	12.1	11.9	11.6	11.4	11.1	10.8	10.5	10.2	9.8	9.5
80°	18.3	17.8	17.4	16.8	16.2	15.6	14.9	14.2	13.4	12.8	12.3
77.5°	28.4	27.4	26.4	25.2	23.9	22.5	21.0	19.7	18.7	17.7	16.6
75°	58.0	54.0	49.6	44.8	39.5	33.9	30.8	28.9	26.9	24.8	22.6
72.5°	123.6	113.5	102.3	90.0	76.6	68.1	61.0	53.5	45.5	37.2	31.0
70°	217.9	203.3	187.2	169.5	152.7	136.2	118.5	99.8	79.9	66.7	56.7
67.5°	324.1	306.7	287.4	266.6	244.9	221.5	196.6	170.1	146.2	122.7	98.2
65°	443.2	419.0	392.1	368.2	342.5	314.9	285.5	255.4	224.2	191.5	158.4
62.5°	579.6	551.6	521.1	488.5	453.2	415.3	378.0	343.5	307.1	269.3	231.6
60°	718.1	688.3	654.1	616.7	576.2	532.9	488.5	441.5	392.1	350.2	306.7
57.5°	853.3	819.2	783.0	743.6	701.0	654.1	603.6	550.3	495.9	439.6	382.9
55°	994.3	958.0	915.6	869.4	820.4	770.8	718.1	661.5	600.7	537.3	473.9
52.5°	1093.9	1064.7	1032.4	997.3	946.6	888.8	827.9	767.8	704.9	637.3	566.4
50°	1126.3	1117.0	1106.7	1088.2	1047.3	1003.6	943.8	874.3	803.8	733.5	659.4
47.5°	1221.7	1184.1	1142.9	1121.9	1109.0	1087.0	1037.5	983.7	906.0	825.7	747.9
45°	1902.7	1563.9	1243.0	1194.8	1143.2	1119.3	1103.7	1060.3	1002.3	921.9	833.0
42.5°	2681.6	2384.6	2016.9	1584.7	1234.6	1175.9	1126.2	1108.8	1071.8	1008.0	921.9
40°	3152.4	3057.1	2719.1	2342.5	1870.7	1347.9	1195.9	1129.8	1110.6	1071.8	1002.3
37.5°	3349.3	3257.6	3145.9	2963.5	2534.5	2044.7	1461.6	1202.5	1129.8	1108.8	1060.3
35°	3516.0	3428.3	3327.9	3206.3	3070.2	2631.7	2103.1	1461.6	1195.9	1126.2	1103.7
32.5°	3653.5	3572.2	3482.2	3367.3	3236.9	3085.1	2631.7	2044.7	1347.9	1175.9	1119.3
30°	3684.7	3667.1	3606.7	3506.7	3380.6	3236.9	3070.2	2534.5	1870.7	1234.6	1143.2
27.5°	3689.4	3691.6	3671.9	3618.2	3506.7	3367.3	3206.3	2963.5	2342.5	1584.7	1194.8
25°	3666.6	3688.7	3691.3	3671.9	3606.7	3482.2	3327.9	3145.9	2719.1	2016.9	1243.0
22.5°	3651.7	3661.6	3688.7	3691.6	3667.1	3572.2	3428.3	3257.6	3057.1	2384.6	1563.9
20°	3817.8	3651.7	3666.6	3689.4	3684.7	3653.5	3516.0	3349.3	3152.4	2681.6	1902.7
17.5°	5092.4	3796.0	3633.0	3681.2	3690.6	3672.5	3584.6	3427.2	3238.4	2949.0	2206.9
15°	7170.2	4578.3	3731.7	3653.2	3688.9	3685.8	3645.6	3495.8	3311.0	3091.7	2431.6
12.5°	12065.5	5891.3	3838.7	3628.6	3682.4	3691.0	3666.6	3544.4	3365.9	3152.1	2618.3
10°	16813.0	8238.3	4597.1	3710.7	3663.4	3689.8	3675.5	3584.9	3411.5	3202.1	2773.0
7.5°	22423.8	11324.1	5415.1	3776.7	3648.4	3688.9	3682.5	3616.9	3447.4	3241.5	2894.5
5°	26592.3	13599.0	6014.8	3824.9	3637.4	3688.2	3687.6	3640.0	3473.3	3269.9	2981.9
2.5°	29164.6	14994.7	6381.1	3854.2	3630.7	3687.8	3690.7	3653.9	3489.0	3287.0	3034.6
0°	30034.6	15465.3	6504.3	3864.1	3628.5	3687.7	3691.7	3658.6	3494.2	3292.7	3052.2
-2.5°	29164.6	14994.7	6381.1	3854.2	3630.7	3687.8	3690.7	3653.9	3489.0	3287.0	3034.6
-5°	26592.3	13599.0	6014.8	3824.9	3637.4	3688.2	3687.6	3640.0	3473.3	3269.9	2981.9
-7.5°	22423.8	11324.1	5415.1	3776.7	3648.4	3688.9	3682.5	3616.9	3447.4	3241.5	2894.5
-10°	16813.0	8238.3	4597.1	3710.7	3663.4	3689.8	3675.5	3584.9	3411.5	3202.1	2773.0
-12.5°	12065.5	5891.3	3838.7	3628.6	3682.4	3691.0	3666.6	3544.4	3365.9	3152.1	2618.3
-15°	7170.2	4578.3	3731.7	3653.2	3688.9	3685.8	3645.6	3495.8	3311.0	3091.7	2431.6
-17.5°	5092.4	3796.0	3633.0	3681.2	3690.6	3672.5	3584.6	3427.2	3238.4	2949.0	2206.9
-20°	3817.8	3651.7	3666.6	3689.4	3684.7	3653.5	3516.0	3349.3	3152.4	2681.6	1902.7



REPORT NUMBER: P731199 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	3651.7	3661.6	3688.7	3691.6	3667.1	3572.2	3428.3	3257.6	3057.1	2384.6	1563.9
-25°	3666.6	3688.7	3691.3	3671.9	3606.7	3482.2	3327.9	3145.9	2719.1	2016.9	1243.0
-27.5°	3689.4	3691.6	3671.9	3618.2	3506.7	3367.3	3206.3	2963.5	2342.5	1584.7	1194.8
-30°	3684.7	3667.1	3606.7	3506.7	3380.6	3236.9	3070.2	2534.5	1870.7	1234.6	1143.2
-32.5°	3653.5	3572.2	3482.2	3367.3	3236.9	3085.1	2631.7	2044.7	1347.9	1175.9	1119.3
-35°	3516.0	3428.3	3327.9	3206.3	3070.2	2631.7	2103.1	1461.6	1195.9	1126.2	1103.7
-37.5°	3349.3	3257.6	3145.9	2963.5	2534.5	2044.7	1461.6	1202.5	1129.8	1108.8	1060.3
-40°	3152.4	3057.1	2719.1	2342.5	1870.7	1347.9	1195.9	1129.8	1110.6	1071.8	1002.3
-42.5°	2681.6	2384.6	2016.9	1584.7	1234.6	1175.9	1126.2	1108.8	1071.8	1008.0	921.9
-45°	1902.7	1563.9	1243.0	1194.8	1143.2	1119.3	1103.7	1060.3	1002.3	921.9	833.0
-47.5°	1221.7	1184.1	1142.9	1121.9	1109.0	1087.0	1037.5	983.7	906.0	825.7	747.9
-50°	1126.3	1117.0	1106.7	1088.2	1047.3	1003.6	943.8	874.3	803.8	733.5	659.4
-52.5°	1093.9	1064.7	1032.4	997.3	946.6	888.8	827.9	767.8	704.9	637.3	566.4
-55°	994.3	958.0	915.6	869.4	820.4	770.8	718.1	661.5	600.7	537.3	473.9
-57.5°	853.3	819.2	783.0	743.6	701.0	654.1	603.6	550.3	495.9	439.6	382.9
-60°	718.1	688.3	654.1	616.7	576.2	532.9	488.5	441.5	392.1	350.2	306.7
-62.5°	579.6	551.6	521.1	488.5	453.2	415.3	378.0	343.5	307.1	269.3	231.6
-65°	443.2	419.0	392.1	368.2	342.5	314.9	285.5	255.4	224.2	191.5	158.4
-67.5°	324.1	306.7	287.4	266.6	244.9	221.5	196.6	170.1	146.2	122.7	98.2
-70°	217.9	203.3	187.2	169.5	152.7	136.2	118.5	99.8	79.9	66.7	56.7
-72.5°	123.6	113.5	102.3	90.0	76.6	68.1	61.0	53.5	45.5	37.2	31.0
-75°	58.0	54.0	49.6	44.8	39.5	33.9	30.8	28.9	26.9	24.8	22.6
-77.5°	28.4	27.4	26.4	25.2	23.9	22.5	21.0	19.7	18.7	17.7	16.6
-80°	18.3	17.8	17.4	16.8	16.2	15.6	14.9	14.2	13.4	12.8	12.3
-82.5°	12.3	12.1	11.9	11.6	11.4	11.1	10.8	10.5	10.2	9.8	9.5
-85°	8.6	8.5	8.4	8.3	8.2	8.1	7.9	7.8	7.6	7.4	7.2
-87.5°	5.6	5.5	5.4	5.3	5.2	5.1	4.9	4.8	4.6	4.4	4.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731199 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-HEG

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	3.9	3.7	3.4	3.2	3.0	2.8	2.5	2.3	2.1	1.8
85°	7.1	6.9	6.6	6.4	6.2	6.0	5.5	5.1	4.6	4.1	3.6
82.5°	9.1	8.8	8.5	8.2	7.8	7.5	7.1	6.8	6.4	6.1	5.4
80°	11.8	11.3	10.7	10.1	9.6	9.0	8.5	8.1	7.6	7.1	6.6
77.5°	15.5	14.4	13.2	12.4	11.7	10.9	10.2	9.4	8.7	8.1	7.5
75°	20.3	18.8	17.4	15.9	14.4	12.9	12.0	11.0	10.1	9.1	8.4
72.5°	28.3	25.5	22.7	19.8	18.0	16.2	14.3	12.7	11.6	10.4	9.3
70°	46.2	35.4	29.8	26.4	22.9	19.6	17.4	15.3	13.1	11.7	10.4
67.5°	72.9	60.7	48.1	35.1	29.0	25.0	20.9	18.1	15.6	13.1	11.6
65°	129.9	100.4	71.7	57.2	42.4	30.6	26.1	21.4	18.1	15.3	12.7
62.5°	192.5	154.0	120.5	86.0	62.8	46.1	31.2	26.1	20.9	17.4	14.3
60°	262.2	217.9	172.2	132.6	94.0	64.6	46.1	30.6	25.0	19.6	16.2
57.5°	333.9	283.2	233.2	182.4	136.7	94.0	62.8	42.4	29.0	22.9	18.0
55°	408.3	350.3	294.1	238.3	182.4	132.6	86.0	57.2	35.1	26.4	19.8
52.5°	494.7	422.1	355.8	294.1	233.2	172.2	120.5	71.7	48.1	29.8	22.7
50°	581.0	501.7	422.1	350.3	283.2	217.9	154.0	100.4	60.7	35.4	25.5
47.5°	666.8	581.0	494.7	408.3	333.9	262.2	192.5	129.9	72.9	46.2	28.3
45°	747.9	659.4	566.4	473.9	382.9	306.7	231.6	158.4	98.2	56.7	31.0
42.5°	825.7	733.5	637.3	537.3	439.6	350.2	269.3	191.5	122.7	66.7	37.2
40°	906.0	803.8	704.9	600.7	495.9	392.1	307.1	224.2	146.2	79.9	45.5
37.5°	983.7	874.3	767.8	661.5	550.3	441.5	343.5	255.4	170.1	99.8	53.5
35°	1037.5	943.8	827.9	718.1	603.6	488.5	378.0	285.5	196.6	118.5	61.0
32.5°	1087.0	1003.6	888.8	770.8	654.1	532.9	415.3	314.9	221.5	136.2	68.1
30°	1109.0	1047.3	946.6	820.4	701.0	576.2	453.2	342.5	244.9	152.7	76.6
27.5°	1121.9	1088.2	997.3	869.4	743.6	616.7	488.5	368.2	266.6	169.5	90.0
25°	1142.9	1106.7	1032.4	915.6	783.0	654.1	521.1	392.1	287.4	187.2	102.3
22.5°	1184.1	1117.0	1064.7	958.0	819.2	688.3	551.6	419.0	306.7	203.3	113.5
20°	1221.7	1126.3	1093.9	994.3	853.3	718.1	579.6	443.2	324.1	217.9	123.6
17.5°	1295.6	1145.5	1104.9	1018.3	884.6	744.6	604.6	464.7	339.6	230.8	132.6
15°	1542.5	1172.7	1111.7	1039.3	912.1	767.8	626.4	483.5	353.1	242.1	140.5
12.5°	1754.1	1196.0	1117.4	1057.3	935.5	787.6	644.9	499.6	364.6	251.6	147.1
10°	1929.0	1215.3	1122.2	1072.1	954.7	803.8	660.2	512.7	374.0	259.5	152.6
7.5°	2066.3	1230.3	1125.9	1083.6	969.8	816.6	672.2	523.0	381.4	265.7	156.9
5°	2165.0	1241.2	1128.6	1091.9	980.6	825.7	680.7	530.4	386.7	270.1	159.9
2.5°	2224.4	1247.7	1130.2	1096.9	987.1	831.2	685.9	534.8	389.8	272.7	161.8
0°	2244.3	1249.9	1130.7	1098.6	989.3	833.0	687.6	536.3	390.9	273.6	162.4
-2.5°	2224.4	1247.7	1130.2	1096.9	987.1	831.2	685.9	534.8	389.8	272.7	161.8
-5°	2165.0	1241.2	1128.6	1091.9	980.6	825.7	680.7	530.4	386.7	270.1	159.9
-7.5°	2066.3	1230.3	1125.9	1083.6	969.8	816.6	672.2	523.0	381.4	265.7	156.9
-10°	1929.0	1215.3	1122.2	1072.1	954.7	803.8	660.2	512.7	374.0	259.5	152.6
-12.5°	1754.1	1196.0	1117.4	1057.3	935.5	787.6	644.9	499.6	364.6	251.6	147.1
-15°	1542.5	1172.7	1111.7	1039.3	912.1	767.8	626.4	483.5	353.1	242.1	140.5
-17.5°	1295.6	1145.5	1104.9	1018.3	884.6	744.6	604.6	464.7	339.6	230.8	132.6
-20°	1221.7	1126.3	1093.9	994.3	853.3	718.1	579.6	443.2	324.1	217.9	123.6



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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°	1184.1	1117.0	1064.7	958.0	819.2	688.3	551.6	419.0	306.7	203.3	113.5
-25°	1142.9	1106.7	1032.4	915.6	783.0	654.1	521.1	392.1	287.4	187.2	102.3
-27.5°	1121.9	1088.2	997.3	869.4	743.6	616.7	488.5	368.2	266.6	169.5	90.0
-30°	1109.0	1047.3	946.6	820.4	701.0	576.2	453.2	342.5	244.9	152.7	76.6
-32.5°	1087.0	1003.6	888.8	770.8	654.1	532.9	415.3	314.9	221.5	136.2	68.1
-35°	1037.5	943.8	827.9	718.1	603.6	488.5	378.0	285.5	196.6	118.5	61.0
-37.5°	983.7	874.3	767.8	661.5	550.3	441.5	343.5	255.4	170.1	99.8	53.5
-40°	906.0	803.8	704.9	600.7	495.9	392.1	307.1	224.2	146.2	79.9	45.5
-42.5°	825.7	733.5	637.3	537.3	439.6	350.2	269.3	191.5	122.7	66.7	37.2
-45°	747.9	659.4	566.4	473.9	382.9	306.7	231.6	158.4	98.2	56.7	31.0
-47.5°	666.8	581.0	494.7	408.3	333.9	262.2	192.5	129.9	72.9	46.2	28.3
-50°	581.0	501.7	422.1	350.3	283.2	217.9	154.0	100.4	60.7	35.4	25.5
-52.5°	494.7	422.1	355.8	294.1	233.2	172.2	120.5	71.7	48.1	29.8	22.7
-55°	408.3	350.3	294.1	238.3	182.4	132.6	86.0	57.2	35.1	26.4	19.8
-57.5°	333.9	283.2	233.2	182.4	136.7	94.0	62.8	42.4	29.0	22.9	18.0
-60°	262.2	217.9	172.2	132.6	94.0	64.6	46.1	30.6	25.0	19.6	16.2
-62.5°	192.5	154.0	120.5	86.0	62.8	46.1	31.2	26.1	20.9	17.4	14.3
-65°	129.9	100.4	71.7	57.2	42.4	30.6	26.1	21.4	18.1	15.3	12.7
-67.5°	72.9	60.7	48.1	35.1	29.0	25.0	20.9	18.1	15.6	13.1	11.6
-70°	46.2	35.4	29.8	26.4	22.9	19.6	17.4	15.3	13.1	11.7	10.4
-72.5°	28.3	25.5	22.7	19.8	18.0	16.2	14.3	12.7	11.6	10.4	9.3
-75°	20.3	18.8	17.4	15.9	14.4	12.9	12.0	11.0	10.1	9.1	8.4
-77.5°	15.5	14.4	13.2	12.4	11.7	10.9	10.2	9.4	8.7	8.1	7.5
-80°	11.8	11.3	10.7	10.1	9.6	9.0	8.5	8.1	7.6	7.1	6.6
-82.5°	9.1	8.8	8.5	8.2	7.8	7.5	7.1	6.8	6.4	6.1	5.4
-85°	7.1	6.9	6.6	6.4	6.2	6.0	5.5	5.1	4.6	4.1	3.6
-87.5°	4.1	3.9	3.7	3.4	3.2	3.0	2.8	2.5	2.3	2.1	1.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	1.3	1.0	0.8	0.5	0.3	0.0
85°	3.1	2.6	2.1	1.6	1.0	0.5	0.0
82.5°	4.6	3.9	3.1	2.3	1.6	0.8	0.0
80°	6.1	5.2	4.1	3.1	2.1	1.0	0.0
77.5°	6.9	6.2	5.2	3.9	2.6	1.3	0.0
75°	7.6	6.9	6.1	4.6	3.1	1.6	0.0
72.5°	8.4	7.5	6.6	5.4	3.6	1.8	0.0
70°	9.1	8.1	7.1	6.1	4.1	2.1	0.0
67.5°	10.1	8.7	7.6	6.4	4.6	2.3	0.0
65°	11.0	9.4	8.1	6.8	5.1	2.5	0.0
62.5°	12.0	10.2	8.5	7.1	5.5	2.8	0.0
60°	12.9	10.9	9.0	7.5	6.0	3.0	0.0
57.5°	14.4	11.7	9.6	7.8	6.2	3.2	0.0
55°	15.9	12.4	10.1	8.2	6.4	3.4	0.0
52.5°	17.4	13.2	10.7	8.5	6.6	3.7	0.0
50°	18.8	14.4	11.3	8.8	6.9	3.9	0.0
47.5°	20.3	15.5	11.8	9.1	7.1	4.1	0.0
45°	22.6	16.6	12.3	9.5	7.2	4.2	0.0
42.5°	24.8	17.7	12.8	9.8	7.4	4.4	0.0
40°	26.9	18.7	13.4	10.2	7.6	4.6	0.0
37.5°	28.9	19.7	14.2	10.5	7.8	4.8	0.0
35°	30.8	21.0	14.9	10.8	7.9	4.9	0.0
32.5°	33.9	22.5	15.6	11.1	8.1	5.1	0.0
30°	39.5	23.9	16.2	11.4	8.2	5.2	0.0
27.5°	44.8	25.2	16.8	11.6	8.3	5.3	0.0
25°	49.6	26.4	17.4	11.9	8.4	5.4	0.0
22.5°	54.0	27.4	17.8	12.1	8.5	5.5	0.0
20°	58.0	28.4	18.3	12.3	8.6	5.6	0.0
17.5°	61.5	29.3	18.7	12.4	8.7	5.7	0.0
15°	64.6	30.0	19.0	12.6	8.8	5.8	0.0
12.5°	67.2	30.6	19.3	12.7	8.9	5.9	0.0
10°	69.4	31.2	19.6	12.8	8.9	5.9	0.0
7.5°	71.0	31.6	19.8	12.9	8.9	5.9	0.0
5°	72.2	31.9	19.9	13.0	9.0	6.0	0.0
2.5°	73.0	32.0	20.0	13.0	9.0	6.0	0.0
0°	73.2	32.1	20.0	13.0	9.0	6.0	0.0
-2.5°	73.0	32.0	20.0	13.0	9.0	6.0	0.0
-5°	72.2	31.9	19.9	13.0	9.0	6.0	0.0
-7.5°	71.0	31.6	19.8	12.9	8.9	5.9	0.0
-10°	69.4	31.2	19.6	12.8	8.9	5.9	0.0
-12.5°	67.2	30.6	19.3	12.7	8.9	5.9	0.0
-15°	64.6	30.0	19.0	12.6	8.8	5.8	0.0
-17.5°	61.5	29.3	18.7	12.4	8.7	5.7	0.0
-20°	58.0	28.4	18.3	12.3	8.6	5.6	0.0



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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	54.0	27.4	17.8	12.1	8.5	5.5	0.0
-25°	49.6	26.4	17.4	11.9	8.4	5.4	0.0
-27.5°	44.8	25.2	16.8	11.6	8.3	5.3	0.0
-30°	39.5	23.9	16.2	11.4	8.2	5.2	0.0
-32.5°	33.9	22.5	15.6	11.1	8.1	5.1	0.0
-35°	30.8	21.0	14.9	10.8	7.9	4.9	0.0
-37.5°	28.9	19.7	14.2	10.5	7.8	4.8	0.0
-40°	26.9	18.7	13.4	10.2	7.6	4.6	0.0
-42.5°	24.8	17.7	12.8	9.8	7.4	4.4	0.0
-45°	22.6	16.6	12.3	9.5	7.2	4.2	0.0
-47.5°	20.3	15.5	11.8	9.1	7.1	4.1	0.0
-50°	18.8	14.4	11.3	8.8	6.9	3.9	0.0
-52.5°	17.4	13.2	10.7	8.5	6.6	3.7	0.0
-55°	15.9	12.4	10.1	8.2	6.4	3.4	0.0
-57.5°	14.4	11.7	9.6	7.8	6.2	3.2	0.0
-60°	12.9	10.9	9.0	7.5	6.0	3.0	0.0
-62.5°	12.0	10.2	8.5	7.1	5.5	2.8	0.0
-65°	11.0	9.4	8.1	6.8	5.1	2.5	0.0
-67.5°	10.1	8.7	7.6	6.4	4.6	2.3	0.0
-70°	9.1	8.1	7.1	6.1	4.1	2.1	0.0
-72.5°	8.4	7.5	6.6	5.4	3.6	1.8	0.0
-75°	7.6	6.9	6.1	4.6	3.1	1.6	0.0
-77.5°	6.9	6.2	5.2	3.9	2.6	1.3	0.0
-80°	6.1	5.2	4.1	3.1	2.1	1.0	0.0
-82.5°	4.6	3.9	3.1	2.3	1.6	0.8	0.0
-85°	3.1	2.6	2.1	1.6	1.0	0.5	0.0
-87.5°	1.6	1.3	1.0	0.8	0.5	0.3	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

