

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: P601478 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS16-1200R-40-80-2S**

Issue Date: 8/3/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P601478 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-700-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/3/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS16-1200R-40-80-2S  
Description: EPHESUS LUMASPORT 16 LUMINAIRE  
(16) 4000K, 80 CRI LEDS AND 2S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

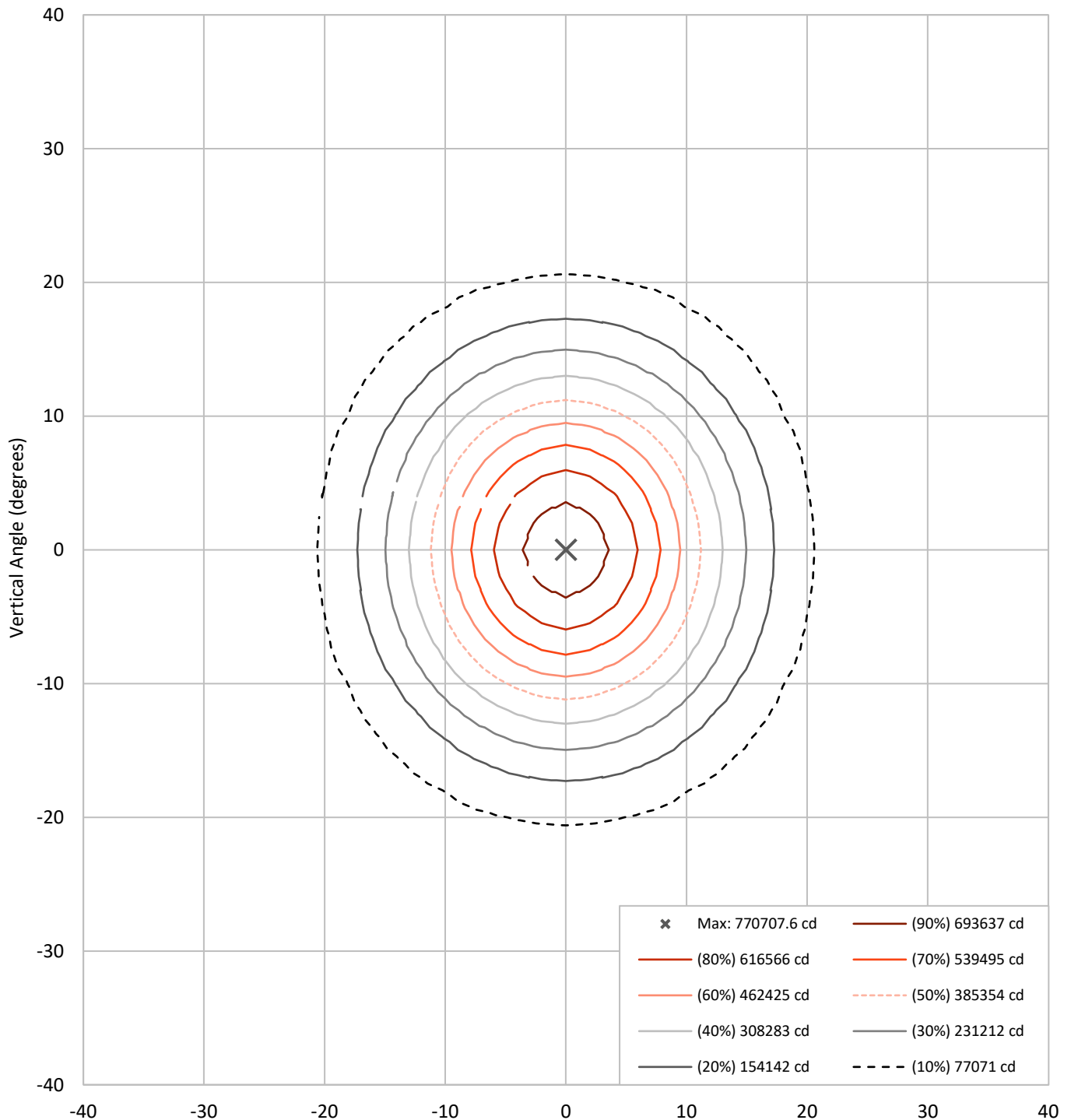
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	151422.4 lumens	Max Intensity:	770707.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	115.6 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	22.4°H x 22.4°V	Field Angle (10%):	41.2°H x 41.2°V
Beam Lumens:	62352 lumens	Field Lumens:	119470.8 lumens
Beam Efficiency:	41.2%	Field Efficiency:	78.9%

Input Watts (W): 1309.95  
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





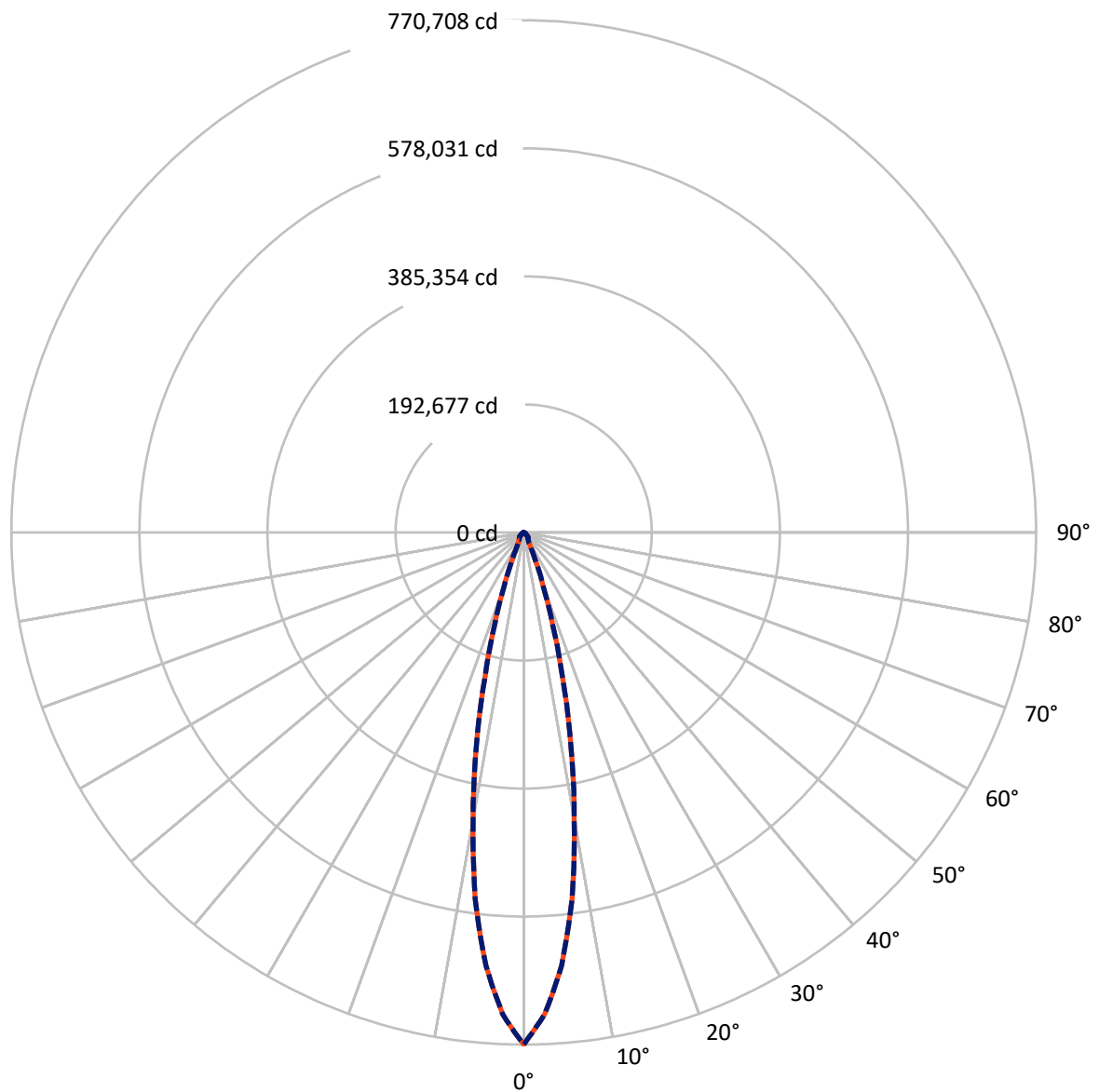
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### Lumen Table

90																
80	0.2	1.5		5.6		14.3		18.8		14.3		5.6		1.5		0.2
70																
60	0.7	0.8	3.5	10.2	20.0	30.6	39.6	44.6	44.6	39.6	30.6	20.0	10.2	3.5	0.8	0.7
50		2.7	11.8	28.4	49.8	71.8	88.2	96.9	96.9	88.2	71.8	49.8	28.4	11.8	2.7	
40	1.9	6.3	23.2	50.9	83.0	132.4	196.1	233.0	233.0	196.1	132.4	83.0	50.9	23.2	6.3	1.9
30		10.7	35.3	71.8	152.1	258.2	318.8	354.2	354.2	318.8	258.2	152.1	71.8	35.3	10.7	
20	4.2	14.7	45.9	104.2	233.7	329.0	530.6	967.1	967.1	530.6	329.0	233.7	104.2	45.9	14.7	4.2
10		17.9	52.9	145.4	270.9	499.7	2326.1	6186.2	6186.2	2326.1	499.7	270.9	145.4	52.9	17.9	
0	5.2	19.5	56.3	167.2	292.1	889.3	6026.9	16214.6	16214.6	6026.9	889.3	292.1	167.2	56.3	19.5	5.2
-10		19.5	56.3	167.2	292.1	889.3	6026.9	16214.6	16214.6	6026.9	889.3	292.1	167.2	56.3	19.5	
-20	4.2	17.9	52.9	145.4	270.9	499.7	2326.1	6186.2	6186.2	2326.1	499.7	270.9	145.4	52.9	17.9	4.2
-30		14.7	45.9	104.2	233.7	329.0	530.6	967.1	967.1	530.6	329.0	233.7	104.2	45.9	14.7	
-40	1.9	10.7	35.3	71.8	152.1	258.2	318.8	354.2	354.2	318.8	258.2	152.1	71.8	35.3	10.7	1.9
-50		6.3	23.2	50.9	83.0	132.4	196.1	233.0	233.0	196.1	132.4	83.0	50.9	23.2	6.3	
-60	0.7	2.7	11.8	28.4	49.8	71.8	88.2	96.9	96.9	88.2	71.8	49.8	28.4	11.8	2.7	0.7
-70		0.8	3.5	10.2	20.0	30.6	39.6	44.6	44.6	39.6	30.6	20.0	10.2	3.5	0.8	
-80																
-90	0.2	1.5		5.6		14.3		18.8		14.3		5.6		1.5		0.2

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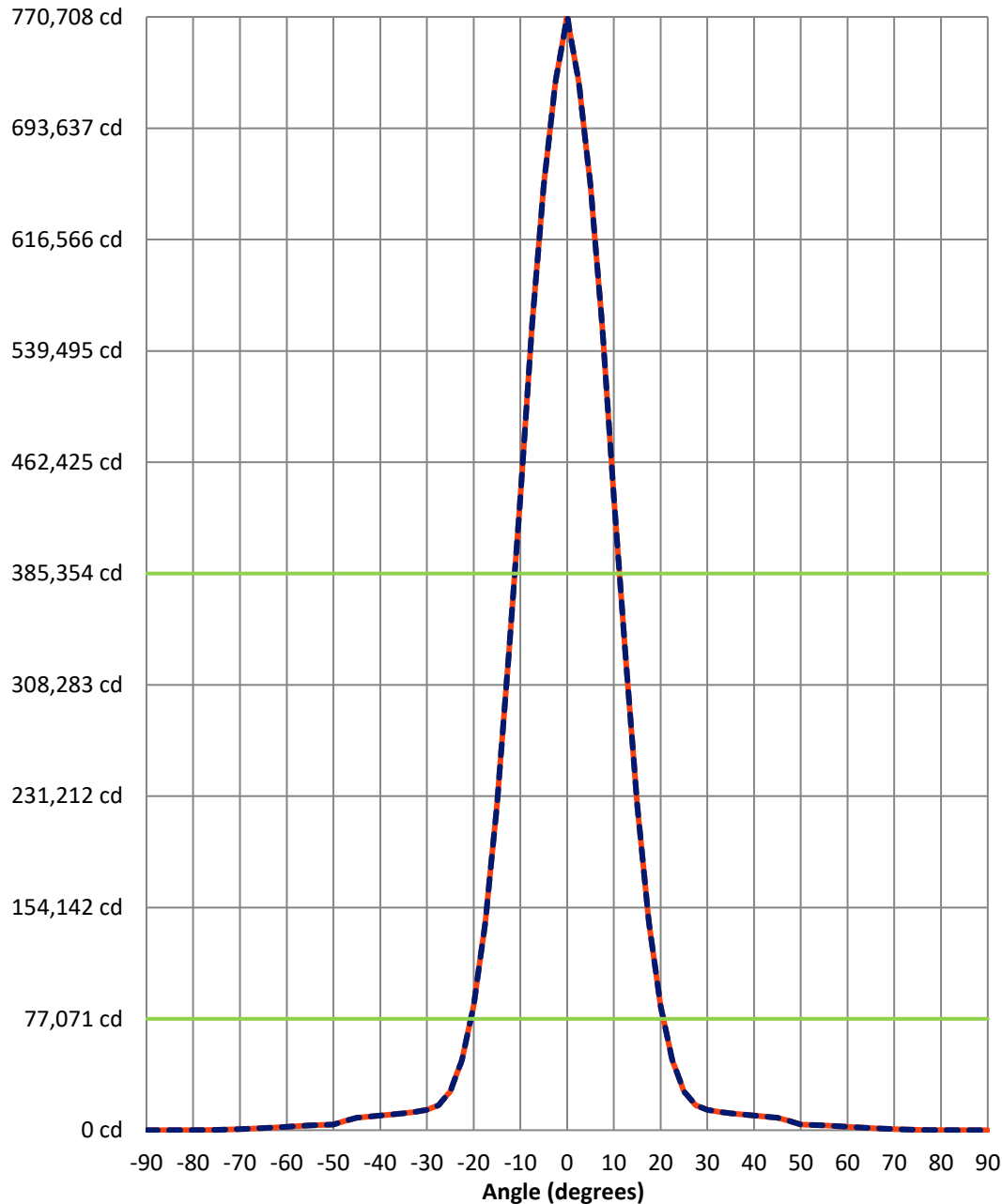
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 22.4°  
 V Angle: 22.4°  
 Lumens: 62352  
 Efficiency: 41.2%

**Field:**  
 H Angle: 41.2°  
 V Angle: 41.2°  
 Lumens: 119470.8  
 Efficiency: 78.9%

**Spill:**  
 Lumens: 31951.5  
 Efficiency: 21.1%

— 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	0.4	0.8	1.2	1.6	1.9	2.3	2.7	3.1	3.4	3.8
85°	0.0	0.8	1.6	2.3	3.1	3.9	4.7	5.4	6.1	6.9	7.6
82.5°	0.0	1.2	2.3	3.5	4.7	5.8	7.0	8.1	9.3	10.7	12.2
80°	0.0	1.6	3.1	4.7	6.2	7.8	9.4	11.4	13.3	15.3	17.2
77.5°	0.0	1.9	3.9	5.8	7.8	9.9	12.4	14.9	17.4	19.8	22.4
75°	0.0	2.3	4.7	7.0	9.4	12.4	15.4	18.4	21.4	24.9	28.2
72.5°	0.0	2.7	5.4	8.1	11.4	14.9	18.4	22.1	26.1	30.1	34.0
70°	0.0	3.1	6.1	9.3	13.3	17.4	21.4	26.1	30.7	35.2	40.3
67.5°	0.0	3.4	6.9	10.7	15.3	19.8	24.9	30.1	35.2	41.0	46.7
65°	0.0	3.8	7.6	12.2	17.2	22.4	28.2	34.0	40.3	46.7	55.8
62.5°	0.0	4.2	8.3	13.6	19.1	25.1	31.5	38.2	45.3	54.0	71.7
60°	0.0	4.5	9.0	15.0	20.9	27.8	34.7	42.4	50.1	68.1	87.3
57.5°	0.0	4.8	9.9	16.3	23.0	30.5	38.3	46.6	60.8	81.8	125.3
55°	0.0	5.2	10.8	17.6	25.0	33.0	41.7	50.7	72.7	101.7	173.2
52.5°	0.0	5.5	11.6	18.9	27.0	35.6	45.1	60.1	84.3	143.7	219.8
50°	0.0	5.8	12.4	20.1	28.9	38.3	48.4	69.9	102.8	184.4	295.1
47.5°	0.0	6.1	13.2	21.3	30.8	40.9	52.3	79.4	137.8	223.8	371.3
45°	0.0	6.4	14.0	22.7	32.6	43.4	60.1	88.5	171.5	289.3	444.9
42.5°	0.0	6.6	14.7	23.9	34.3	45.9	67.6	108.6	203.8	352.7	530.5
40°	0.0	6.9	15.4	25.2	36.0	48.2	74.7	135.5	242.1	413.5	614.8
37.5°	0.0	7.1	16.0	26.3	37.8	50.4	81.5	161.2	293.3	475.3	695.1
35°	0.0	7.4	16.7	27.4	39.4	54.6	87.9	185.5	341.9	543.5	776.5
32.5°	0.0	7.6	17.2	28.4	41.0	59.6	97.9	208.3	387.6	607.9	861.0
30°	0.0	7.8	17.8	29.4	42.5	64.3	116.2	233.5	430.3	668.1	940.2
27.5°	0.0	8.0	18.3	30.3	43.8	68.7	133.1	268.0	473.7	724.2	1013.9
25°	0.0	8.2	18.7	31.1	45.1	72.7	148.7	299.9	519.3	781.7	1082.4
22.5°	0.0	8.3	19.2	31.9	46.2	76.3	162.9	328.9	560.9	837.2	1154.0
20°	0.0	8.5	19.5	32.5	47.2	79.6	175.7	355.1	598.4	887.2	1218.7
17.5°	0.0	8.6	19.9	33.1	48.1	82.5	187.1	378.4	631.8	931.7	1276.2
15°	0.0	8.7	20.2	33.7	48.9	85.1	197.0	398.6	660.8	970.4	1326.5
12.5°	0.0	8.8	20.4	34.1	49.6	87.3	205.4	415.8	685.6	1003.4	1369.2
10°	0.0	8.9	20.6	34.5	50.1	89.0	212.3	430.0	705.9	1030.6	1404.4
7.5°	0.0	8.9	20.8	34.7	50.5	90.4	217.7	441.1	721.7	1051.8	1431.8
5°	0.0	9.0	20.9	34.9	50.9	91.4	221.6	449.0	733.1	1066.9	1451.5
2.5°	0.0	9.0	21.0	35.1	51.0	92.0	223.9	453.7	739.9	1076.1	1463.4
0°	0.0	9.0	21.0	35.1	51.0	92.0	223.9	453.7	739.9	1076.1	1463.4
-2.5°	0.0	9.0	21.0	35.1	51.0	92.0	223.9	453.7	739.9	1076.1	1463.4
-5°	0.0	9.0	20.9	34.9	50.9	91.4	221.6	449.0	733.1	1066.9	1451.5
-7.5°	0.0	8.9	20.8	34.7	50.5	90.4	217.7	441.1	721.7	1051.8	1431.8
-10°	0.0	8.9	20.6	34.5	50.1	89.0	212.3	430.0	705.9	1030.6	1404.4
-12.5°	0.0	8.8	20.4	34.1	49.6	87.3	205.4	415.8	685.6	1003.4	1369.2
-15°	0.0	8.7	20.2	33.7	48.9	85.1	197.0	398.6	660.8	970.4	1326.5
-17.5°	0.0	8.6	19.9	33.1	48.1	82.5	187.1	378.4	631.8	931.7	1276.2
-20°	0.0	8.5	19.5	32.5	47.2	79.6	175.7	355.1	598.4	887.2	1218.7



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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	8.3	19.2	31.9	46.2	76.3	162.9	328.9	560.9	837.2	1154.0
-25°	0.0	8.2	18.7	31.1	45.1	72.7	148.7	299.9	519.3	781.7	1082.4
-27.5°	0.0	8.0	18.3	30.3	43.8	68.7	133.1	268.0	473.7	724.2	1013.9
-30°	0.0	7.8	17.8	29.4	42.5	64.3	116.2	233.5	430.3	668.1	940.2
-32.5°	0.0	7.6	17.2	28.4	41.0	59.6	97.9	208.3	387.6	607.9	861.0
-35°	0.0	7.4	16.7	27.4	39.4	54.6	87.9	185.5	341.9	543.5	776.5
-37.5°	0.0	7.1	16.0	26.3	37.8	50.4	81.5	161.2	293.3	475.3	695.1
-40°	0.0	6.9	15.4	25.2	36.0	48.2	74.7	135.5	242.1	413.5	614.8
-42.5°	0.0	6.6	14.7	23.9	34.3	45.9	67.6	108.6	203.8	352.7	530.5
-45°	0.0	6.4	14.0	22.7	32.6	43.4	60.1	88.5	171.5	289.3	444.9
-47.5°	0.0	6.1	13.2	21.3	30.8	40.9	52.3	79.4	137.8	223.8	371.3
-50°	0.0	5.8	12.4	20.1	28.9	38.3	48.4	69.9	102.8	184.4	295.1
-52.5°	0.0	5.5	11.6	18.9	27.0	35.6	45.1	60.1	84.3	143.7	219.8
-55°	0.0	5.2	10.8	17.6	25.0	33.0	41.7	50.7	72.7	101.7	173.2
-57.5°	0.0	4.8	9.9	16.3	23.0	30.5	38.3	46.6	60.8	81.8	125.3
-60°	0.0	4.5	9.0	15.0	20.9	27.8	34.7	42.4	50.1	68.1	87.3
-62.5°	0.0	4.2	8.3	13.6	19.1	25.1	31.5	38.2	45.3	54.0	71.7
-65°	0.0	3.8	7.6	12.2	17.2	22.4	28.2	34.0	40.3	46.7	55.8
-67.5°	0.0	3.4	6.9	10.7	15.3	19.8	24.9	30.1	35.2	41.0	46.7
-70°	0.0	3.1	6.1	9.3	13.3	17.4	21.4	26.1	30.7	35.2	40.3
-72.5°	0.0	2.7	5.4	8.1	11.4	14.9	18.4	22.1	26.1	30.1	34.0
-75°	0.0	2.3	4.7	7.0	9.4	12.4	15.4	18.4	21.4	24.9	28.2
-77.5°	0.0	1.9	3.9	5.8	7.8	9.9	12.4	14.9	17.4	19.8	22.4
-80°	0.0	1.6	3.1	4.7	6.2	7.8	9.4	11.4	13.3	15.3	17.2
-82.5°	0.0	1.2	2.3	3.5	4.7	5.8	7.0	8.1	9.3	10.7	12.2
-85°	0.0	0.8	1.6	2.3	3.1	3.9	4.7	5.4	6.1	6.9	7.6
-87.5°	0.0	0.4	0.8	1.2	1.6	1.9	2.3	2.7	3.1	3.4	3.8
-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):**

	-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°	4.2	4.5	4.8	5.2	5.5	5.8	6.1	6.4	6.6	6.9	7.1
85°	8.3	9.0	9.9	10.8	11.6	12.4	13.2	14.0	14.7	15.4	16.0
82.5°	13.6	15.0	16.3	17.6	18.9	20.1	21.3	22.7	23.9	25.2	26.3
80°	19.1	20.9	23.0	25.0	27.0	28.9	30.8	32.6	34.3	36.0	37.8
77.5°	25.1	27.8	30.5	33.0	35.6	38.3	40.9	43.4	45.9	48.2	50.4
75°	31.5	34.7	38.3	41.7	45.1	48.4	52.3	60.1	67.6	74.7	81.5
72.5°	38.2	42.4	46.6	50.7	60.1	69.9	79.4	88.5	108.6	135.5	161.2
70°	45.3	50.1	60.8	72.7	84.3	102.8	137.8	171.5	203.8	242.1	293.3
67.5°	54.0	68.1	81.8	101.7	143.7	184.4	223.8	289.3	352.7	413.5	475.3
65°	71.7	87.3	125.3	173.2	219.8	295.1	371.3	444.9	530.5	614.8	695.1
62.5°	89.1	137.2	191.0	257.7	347.0	433.7	533.0	634.0	731.1	838.6	942.9
60°	137.2	197.0	278.6	378.4	480.7	598.4	712.7	837.2	962.1	1082.4	1214.3
57.5°	191.0	278.6	388.8	506.9	638.0	769.7	915.3	1056.1	1209.1	1359.4	1505.8
55°	257.7	378.4	506.9	651.3	801.0	962.5	1125.6	1300.8	1470.1	1644.5	1811.6
52.5°	347.0	480.7	638.0	801.0	978.3	1162.3	1356.3	1550.0	1745.1	1938.4	2138.6
50°	433.7	598.4	769.7	962.5	1162.3	1374.8	1590.2	1805.9	2029.4	2253.2	2481.9
47.5°	533.0	712.7	915.3	1125.6	1356.3	1590.2	1826.3	2075.2	2322.6	2586.0	2842.0
45°	634.0	837.2	1056.1	1300.8	1550.0	1805.9	2075.2	2345.9	2638.5	2915.5	3160.7
42.5°	731.1	962.1	1209.1	1470.1	1745.1	2029.4	2322.6	2638.5	2939.5	3209.4	3413.3
40°	838.6	1082.4	1359.4	1644.5	1938.4	2253.2	2586.0	2915.5	3209.4	3428.5	3598.3
37.5°	942.9	1214.3	1505.8	1811.6	2138.6	2481.9	2842.0	3160.7	3413.3	3598.3	3791.5
35°	1042.0	1339.7	1652.5	1980.5	2329.6	2710.6	3064.1	3367.7	3567.2	3774.3	4453.5
32.5°	1144.2	1458.2	1791.3	2148.1	2529.5	2921.1	3273.8	3505.6	3723.0	4163.3	5940.8
30°	1245.4	1577.0	1926.2	2306.0	2719.8	3105.6	3414.5	3638.7	3874.1	5496.9	7222.5
27.5°	1339.7	1688.3	2061.6	2465.6	2894.1	3278.6	3529.0	3771.6	4767.5	6711.2	8364.3
25°	1426.8	1791.3	2187.0	2617.8	3042.6	3394.4	3638.0	3895.7	5869.9	7713.7	8903.0
22.5°	1509.3	1885.8	2301.9	2757.4	3179.1	3485.2	3744.2	4714.4	6823.2	8616.1	9264.1
20°	1586.4	1980.5	2412.7	2881.6	3303.0	3567.8	3840.8	5578.5	7613.9	8924.2	9593.2
17.5°	1655.1	2064.8	2515.9	2983.1	3378.5	3644.6	4029.9	6354.5	8325.6	9202.1	9889.5
15°	1715.1	2138.6	2606.2	3072.0	3438.1	3714.7	4659.8	6948.4	8727.9	9447.0	10152.1
12.5°	1766.2	2201.4	2683.2	3147.8	3489.1	3774.7	5199.5	7445.5	8923.0	9656.0	10374.6
10°	1808.2	2253.2	2746.6	3210.4	3531.1	3824.2	5645.7	7857.1	9084.8	9829.7	10559.9
7.5°	1841.1	2293.6	2796.2	3259.4	3564.0	3863.1	5995.8	8180.5	9212.0	9966.5	10706.1
5°	1864.6	2322.6	2831.8	3294.5	3587.6	3891.0	6247.5	8413.1	9303.7	10065.2	10811.8
2.5°	1878.8	2340.1	2853.3	3315.6	3601.8	3907.8	6399.2	8553.4	9359.0	10124.8	10875.6
0°	1883.5	2345.9	2860.4	3322.7	3606.6	3913.4	6449.9	8600.3	9377.5	10144.7	10897.0
-2.5°	1878.8	2340.1	2853.3	3315.6	3601.8	3907.8	6399.2	8553.4	9359.0	10124.8	10875.6
-5°	1864.6	2322.6	2831.8	3294.5	3587.6	3891.0	6247.5	8413.1	9303.7	10065.2	10811.8
-7.5°	1841.1	2293.6	2796.2	3259.4	3564.0	3863.1	5995.8	8180.5	9212.0	9966.5	10706.1
-10°	1808.2	2253.2	2746.6	3210.4	3531.1	3824.2	5645.7	7857.1	9084.8	9829.7	10559.9
-12.5°	1766.2	2201.4	2683.2	3147.8	3489.1	3774.7	5199.5	7445.5	8923.0	9656.0	10374.6
-15°	1715.1	2138.6	2606.2	3072.0	3438.1	3714.7	4659.8	6948.4	8727.9	9447.0	10152.1
-17.5°	1655.1	2064.8	2515.9	2983.1	3378.5	3644.6	4029.9	6354.5	8325.6	9202.1	9889.5
-20°	1586.4	1980.5	2412.7	2881.6	3303.0	3567.8	3840.8	5578.5	7613.9	8924.2	9593.2



REPORT NUMBER: P601478 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS16-1200R-40-80-2S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1509.3	1885.8	2301.9	2757.4	3179.1	3485.2	3744.2	4714.4	6823.2	8616.1	9264.1
-25°	1426.8	1791.3	2187.0	2617.8	3042.6	3394.4	3638.0	3895.7	5869.9	7713.7	8903.0
-27.5°	1339.7	1688.3	2061.6	2465.6	2894.1	3278.6	3529.0	3771.6	4767.5	6711.2	8364.3
-30°	1245.4	1577.0	1926.2	2306.0	2719.8	3105.6	3414.5	3638.7	3874.1	5496.9	7222.5
-32.5°	1144.2	1458.2	1791.3	2148.1	2529.5	2921.1	3273.8	3505.6	3723.0	4163.3	5940.8
-35°	1042.0	1339.7	1652.5	1980.5	2329.6	2710.6	3064.1	3367.7	3567.2	3774.3	4453.5
-37.5°	942.9	1214.3	1505.8	1811.6	2138.6	2481.9	2842.0	3160.7	3413.3	3598.3	3791.5
-40°	838.6	1082.4	1359.4	1644.5	1938.4	2253.2	2586.0	2915.5	3209.4	3428.5	3598.3
-42.5°	731.1	962.1	1209.1	1470.1	1745.1	2029.4	2322.6	2638.5	2939.5	3209.4	3413.3
-45°	634.0	837.2	1056.1	1300.8	1550.0	1805.9	2075.2	2345.9	2638.5	2915.5	3160.7
-47.5°	533.0	712.7	915.3	1125.6	1356.3	1590.2	1826.3	2075.2	2322.6	2586.0	2842.0
-50°	433.7	598.4	769.7	962.5	1162.3	1374.8	1590.2	1805.9	2029.4	2253.2	2481.9
-52.5°	347.0	480.7	638.0	801.0	978.3	1162.3	1356.3	1550.0	1745.1	1938.4	2138.6
-55°	257.7	378.4	506.9	651.3	801.0	962.5	1125.6	1300.8	1470.1	1644.5	1811.6
-57.5°	191.0	278.6	388.8	506.9	638.0	769.7	915.3	1056.1	1209.1	1359.4	1505.8
-60°	137.2	197.0	278.6	378.4	480.7	598.4	712.7	837.2	962.1	1082.4	1214.3
-62.5°	89.1	137.2	191.0	257.7	347.0	433.7	533.0	634.0	731.1	838.6	942.9
-65°	71.7	87.3	125.3	173.2	219.8	295.1	371.3	444.9	530.5	614.8	695.1
-67.5°	54.0	68.1	81.8	101.7	143.7	184.4	223.8	289.3	352.7	413.5	475.3
-70°	45.3	50.1	60.8	72.7	84.3	102.8	137.8	171.5	203.8	242.1	293.3
-72.5°	38.2	42.4	46.6	50.7	60.1	69.9	79.4	88.5	108.6	135.5	161.2
-75°	31.5	34.7	38.3	41.7	45.1	48.4	52.3	60.1	67.6	74.7	81.5
-77.5°	25.1	27.8	30.5	33.0	35.6	38.3	40.9	43.4	45.9	48.2	50.4
-80°	19.1	20.9	23.0	25.0	27.0	28.9	30.8	32.6	34.3	36.0	37.8
-82.5°	13.6	15.0	16.3	17.6	18.9	20.1	21.3	22.7	23.9	25.2	26.3
-85°	8.3	9.0	9.9	10.8	11.6	12.4	13.2	14.0	14.7	15.4	16.0
-87.5°	4.2	4.5	4.8	5.2	5.5	5.8	6.1	6.4	6.6	6.9	7.1
-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: P601478 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS16-1200R-40-80-2S

**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°	7.4	7.6	7.8	8.0	8.2	8.3	8.5	8.6	8.7	8.8	8.9
85°	16.7	17.2	17.8	18.3	18.7	19.2	19.5	19.9	20.2	20.4	20.6
82.5°	27.4	28.4	29.4	30.3	31.1	31.9	32.5	33.1	33.7	34.1	34.5
80°	39.4	41.0	42.5	43.8	45.1	46.2	47.2	48.1	48.9	49.6	50.1
77.5°	54.6	59.6	64.3	68.7	72.7	76.3	79.6	82.5	85.1	87.3	89.0
75°	87.9	97.9	116.2	133.1	148.7	162.9	175.7	187.1	197.0	205.4	212.3
72.5°	185.5	208.3	233.5	268.0	299.9	328.9	355.1	378.4	398.6	415.8	430.0
70°	341.9	387.6	430.3	473.7	519.3	560.9	598.4	631.8	660.8	685.6	705.9
67.5°	543.5	607.9	668.1	724.2	781.7	837.2	887.2	931.7	970.4	1003.4	1030.6
65°	776.5	861.0	940.2	1013.9	1082.4	1154.0	1218.7	1276.2	1326.5	1369.2	1404.4
62.5°	1042.0	1144.2	1245.4	1339.7	1426.8	1509.3	1586.4	1655.1	1715.1	1766.2	1808.2
60°	1339.7	1458.2	1577.0	1688.3	1791.3	1885.8	1980.5	2064.8	2138.6	2201.4	2253.2
57.5°	1652.5	1791.3	1926.2	2061.6	2187.0	2301.9	2412.7	2515.9	2606.2	2683.2	2746.6
55°	1980.5	2148.1	2306.0	2465.6	2617.8	2757.4	2881.6	2983.1	3072.0	3147.8	3210.4
52.5°	2329.6	2529.5	2719.8	2894.1	3042.6	3179.1	3303.0	3378.5	3438.1	3489.1	3531.1
50°	2710.6	2921.1	3105.6	3278.6	3394.4	3485.2	3567.8	3644.6	3714.7	3774.7	3824.2
47.5°	3064.1	3273.8	3414.5	3529.0	3638.0	3744.2	3840.8	4029.9	4659.8	5199.5	5645.7
45°	3367.7	3505.6	3638.7	3771.6	3895.7	4714.4	5578.5	6354.5	6948.4	7445.5	7857.1
42.5°	3567.2	3723.0	3874.1	4767.5	5869.9	6823.2	7613.9	8325.6	8727.9	8923.0	9084.8
40°	3774.3	4163.3	5496.9	6711.2	7713.7	8616.1	8924.2	9202.1	9447.0	9656.0	9829.7
37.5°	4453.5	5940.8	7222.5	8364.3	8903.0	9264.1	9593.2	9889.5	10152.1	10374.6	10559.9
35°	6089.8	7481.0	8658.3	9098.3	9511.5	9893.9	10244.5	10558.2	10837.3	11088.2	11300.2
32.5°	7481.0	8706.5	9197.1	9661.6	10099.0	10501.8	10873.7	11228.3	11546.0	11856.7	12147.3
30°	8658.3	9197.1	9712.1	10201.9	10659.3	11099.3	11519.3	11959.0	12391.9	12808.0	13261.7
27.5°	9098.3	9661.6	10201.9	10712.3	11214.6	11700.8	12267.9	12836.0	13507.1	14095.8	15215.1
25°	9511.5	10099.0	10659.3	11214.6	11776.5	12425.3	13186.0	13990.5	15501.1	16953.9	19969.3
22.5°	9893.9	10501.8	11099.3	11700.8	12425.3	13304.4	14413.2	16374.8	19901.0	24683.3	31113.8
20°	10244.5	10873.7	11519.3	12267.9	13186.0	14413.2	16671.1	21773.5	28528.1	40379.1	52080.7
17.5°	10558.2	11228.3	11959.0	12836.0	13990.5	16374.8	21773.5	30793.3	45182.6	65248.0	84967.1
15°	10837.3	11546.0	12391.9	13507.1	15501.1	19901.0	28528.1	45182.6	69764.4	99244.3	133239.0
12.5°	11088.2	11856.7	12808.0	14095.8	16953.9	24683.3	40379.1	65248.0	99244.3	141495.7	194190.2
10°	11300.2	12147.3	13261.7	15215.1	19969.3	31113.8	52080.7	84967.1	133239.0	194190.2	261183.2
7.5°	11467.9	12377.8	13622.8	16112.3	22949.0	38584.2	66531.6	109427.9	168983.5	243541.6	329513.1
5°	11589.2	12544.9	13885.4	16767.1	25133.0	44091.6	77267.9	128267.4	199553.7	288562.2	386061.0
2.5°	11662.7	12646.2	14044.9	17165.8	26467.1	47470.3	83892.8	139988.0	218801.6	318212.4	424630.9
0°	11687.3	12680.2	14098.4	17299.7	26916.0	48609.6	86133.6	143970.3	225386.1	328540.7	438295.6
-2.5°	11662.7	12646.2	14044.9	17165.8	26467.1	47470.3	83892.8	139988.0	218801.6	318212.4	424630.9
-5°	11589.2	12544.9	13885.4	16767.1	25133.0	44091.6	77267.9	128267.4	199553.7	288562.2	386061.0
-7.5°	11467.9	12377.8	13622.8	16112.3	22949.0	38584.2	66531.6	109427.9	168983.5	243541.6	329513.1
-10°	11300.2	12147.3	13261.7	15215.1	19969.3	31113.8	52080.7	84967.1	133239.0	194190.2	261183.2
-12.5°	11088.2	11856.7	12808.0	14095.8	16953.9	24683.3	40379.1	65248.0	99244.3	141495.7	194190.2
-15°	10837.3	11546.0	12391.9	13507.1	15501.1	19901.0	28528.1	45182.6	69764.4	99244.3	133239.0
-17.5°	10558.2	11228.3	11959.0	12836.0	13990.5	16374.8	21773.5	30793.3	45182.6	65248.0	84967.1
-20°	10244.5	10873.7	11519.3	12267.9	13186.0	14413.2	16671.1	21773.5	28528.1	40379.1	52080.7



REPORT NUMBER: P601478 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS16-1200R-40-80-2S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	9893.9	10501.8	11099.3	11700.8	12425.3	13304.4	14413.2	16374.8	19901.0	24683.3	31113.8
-25°	9511.5	10099.0	10659.3	11214.6	11776.5	12425.3	13186.0	13990.5	15501.1	16953.9	19969.3
-27.5°	9098.3	9661.6	10201.9	10712.3	11214.6	11700.8	12267.9	12836.0	13507.1	14095.8	15215.1
-30°	8658.3	9197.1	9712.1	10201.9	10659.3	11099.3	11519.3	11959.0	12391.9	12808.0	13261.7
-32.5°	7481.0	8706.5	9197.1	9661.6	10099.0	10501.8	10873.7	11228.3	11546.0	11856.7	12147.3
-35°	6089.8	7481.0	8658.3	9098.3	9511.5	9893.9	10244.5	10558.2	10837.3	11088.2	11300.2
-37.5°	4453.5	5940.8	7222.5	8364.3	8903.0	9264.1	9593.2	9889.5	10152.1	10374.6	10559.9
-40°	3774.3	4163.3	5496.9	6711.2	7713.7	8616.1	8924.2	9202.1	9447.0	9656.0	9829.7
-42.5°	3567.2	3723.0	3874.1	4767.5	5869.9	6823.2	7613.9	8325.6	8727.9	8923.0	9084.8
-45°	3367.7	3505.6	3638.7	3771.6	3895.7	4714.4	5578.5	6354.5	6948.4	7445.5	7857.1
-47.5°	3064.1	3273.8	3414.5	3529.0	3638.0	3744.2	3840.8	4029.9	4659.8	5199.5	5645.7
-50°	2710.6	2921.1	3105.6	3278.6	3394.4	3485.2	3567.8	3644.6	3714.7	3774.7	3824.2
-52.5°	2329.6	2529.5	2719.8	2894.1	3042.6	3179.1	3303.0	3378.5	3438.1	3489.1	3531.1
-55°	1980.5	2148.1	2306.0	2465.6	2617.8	2757.4	2881.6	2983.1	3072.0	3147.8	3210.4
-57.5°	1652.5	1791.3	1926.2	2061.6	2187.0	2301.9	2412.7	2515.9	2606.2	2683.2	2746.6
-60°	1339.7	1458.2	1577.0	1688.3	1791.3	1885.8	1980.5	2064.8	2138.6	2201.4	2253.2
-62.5°	1042.0	1144.2	1245.4	1339.7	1426.8	1509.3	1586.4	1655.1	1715.1	1766.2	1808.2
-65°	776.5	861.0	940.2	1013.9	1082.4	1154.0	1218.7	1276.2	1326.5	1369.2	1404.4
-67.5°	543.5	607.9	668.1	724.2	781.7	837.2	887.2	931.7	970.4	1003.4	1030.6
-70°	341.9	387.6	430.3	473.7	519.3	560.9	598.4	631.8	660.8	685.6	705.9
-72.5°	185.5	208.3	233.5	268.0	299.9	328.9	355.1	378.4	398.6	415.8	430.0
-75°	87.9	97.9	116.2	133.1	148.7	162.9	175.7	187.1	197.0	205.4	212.3
-77.5°	54.6	59.6	64.3	68.7	72.7	76.3	79.6	82.5	85.1	87.3	89.0
-80°	39.4	41.0	42.5	43.8	45.1	46.2	47.2	48.1	48.9	49.6	50.1
-82.5°	27.4	28.4	29.4	30.3	31.1	31.9	32.5	33.1	33.7	34.1	34.5
-85°	16.7	17.2	17.8	18.3	18.7	19.2	19.5	19.9	20.2	20.4	20.6
-87.5°	7.4	7.6	7.8	8.0	8.2	8.3	8.5	8.6	8.7	8.8	8.9
-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: P601478 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS16-1200R-40-80-2S

**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°	8.9	9.0	9.0	9.0	9.0	9.0	8.9	8.9	8.8	8.7	8.6
85°	20.8	20.9	21.0	21.0	21.0	20.9	20.8	20.6	20.4	20.2	19.9
82.5°	34.7	34.9	35.1	35.1	35.1	34.9	34.7	34.5	34.1	33.7	33.1
80°	50.5	50.9	51.0	51.0	51.0	50.9	50.5	50.1	49.6	48.9	48.1
77.5°	90.4	91.4	92.0	92.0	92.0	91.4	90.4	89.0	87.3	85.1	82.5
75°	217.7	221.6	223.9	224.7	223.9	221.6	217.7	212.3	205.4	197.0	187.1
72.5°	441.1	449.0	453.7	455.3	453.7	449.0	441.1	430.0	415.8	398.6	378.4
70°	721.7	733.1	739.9	742.2	739.9	733.1	721.7	705.9	685.6	660.8	631.8
67.5°	1051.8	1066.9	1076.1	1079.1	1076.1	1066.9	1051.8	1030.6	1003.4	970.4	931.7
65°	1431.8	1451.5	1463.4	1467.3	1463.4	1451.5	1431.8	1404.4	1369.2	1326.5	1276.2
62.5°	1841.1	1864.6	1878.8	1883.5	1878.8	1864.6	1841.1	1808.2	1766.2	1715.1	1655.1
60°	2293.6	2322.6	2340.1	2345.9	2340.1	2322.6	2293.6	2253.2	2201.4	2138.6	2064.8
57.5°	2796.2	2831.8	2853.3	2860.4	2853.3	2831.8	2796.2	2746.6	2683.2	2606.2	2515.9
55°	3259.4	3294.5	3315.6	3322.7	3315.6	3294.5	3259.4	3210.4	3147.8	3072.0	2983.1
52.5°	3564.0	3587.6	3601.8	3606.6	3601.8	3587.6	3564.0	3531.1	3489.1	3438.1	3378.5
50°	3863.1	3891.0	3907.8	3913.4	3907.8	3891.0	3863.1	3824.2	3774.7	3714.7	3644.6
47.5°	5995.8	6247.5	6399.2	6449.9	6399.2	6247.5	5995.8	5645.7	5199.5	4659.8	4029.9
45°	8180.5	8413.1	8553.4	8600.3	8553.4	8413.1	8180.5	7857.1	7445.5	6948.4	6354.5
42.5°	9212.0	9303.7	9359.0	9377.5	9359.0	9303.7	9212.0	9084.8	8923.0	8727.9	8325.6
40°	9966.5	10065.2	10124.8	10144.7	10124.8	10065.2	9966.5	9829.7	9656.0	9447.0	9202.1
37.5°	10706.1	10811.8	10875.6	10897.0	10875.6	10811.8	10706.1	10559.9	10374.6	10152.1	9889.5
35°	11467.9	11589.2	11662.7	11687.3	11662.7	11589.2	11467.9	11300.2	11088.2	10837.3	10558.2
32.5°	12377.8	12544.9	12646.2	12680.2	12646.2	12544.9	12377.8	12147.3	11856.7	11546.0	11228.3
30°	13622.8	13885.4	14044.9	14098.4	14044.9	13885.4	13622.8	13261.7	12808.0	12391.9	11959.0
27.5°	16112.3	16767.1	17165.8	17299.7	17165.8	16767.1	16112.3	15215.1	14095.8	13507.1	12836.0
25°	22949.0	25133.0	26467.1	26916.0	26467.1	25133.0	22949.0	19969.3	16953.9	15501.1	13990.5
22.5°	38584.2	44091.6	47470.3	48609.6	47470.3	44091.6	38584.2	31113.8	24683.3	19901.0	16374.8
20°	66531.6	77267.9	83892.8	86133.6	83892.8	77267.9	66531.6	52080.7	40379.1	28528.1	21773.5
17.5°	109427.9	128267.4	139988.0	143970.3	139988.0	128267.4	109427.9	84967.1	65248.0	45182.6	30793.3
15°	168983.5	199553.7	218801.6	225386.1	218801.6	199553.7	168983.5	133239.0	99244.3	69764.4	45182.6
12.5°	243541.6	288562.2	318212.4	328540.7	318212.4	288562.2	243541.6	194190.2	141495.7	99244.3	65248.0
10°	329513.1	386061.0	424630.9	438295.6	424630.9	386061.0	329513.1	261183.2	194190.2	133239.0	84967.1
7.5°	411771.0	484707.2	538140.2	557153.3	538140.2	484707.2	411771.0	329513.1	243541.6	168983.5	109427.9
5°	484707.2	577579.8	634816.4	654025.4	634816.4	577579.8	484707.2	386061.0	288562.2	199553.7	128267.4
2.5°	538140.2	634816.4	696132.2	725391.8	696132.2	634816.4	538140.2	424630.9	318212.4	218801.6	139988.0
0°	557153.3	654025.4	725391.8	770707.6	725391.8	654025.4	557153.3	438295.6	328540.7	225386.1	143970.3
-2.5°	538140.2	634816.4	696132.2	725391.8	696132.2	634816.4	538140.2	424630.9	318212.4	218801.6	139988.0
-5°	484707.2	577579.8	634816.4	654025.4	634816.4	577579.8	484707.2	386061.0	288562.2	199553.7	128267.4
-7.5°	411771.0	484707.2	538140.2	557153.3	538140.2	484707.2	411771.0	329513.1	243541.6	168983.5	109427.9
-10°	329513.1	386061.0	424630.9	438295.6	424630.9	386061.0	329513.1	261183.2	194190.2	133239.0	84967.1
-12.5°	243541.6	288562.2	318212.4	328540.7	318212.4	288562.2	243541.6	194190.2	141495.7	99244.3	65248.0
-15°	168983.5	199553.7	218801.6	225386.1	218801.6	199553.7	168983.5	133239.0	99244.3	69764.4	45182.6
-17.5°	109427.9	128267.4	139988.0	143970.3	139988.0	128267.4	109427.9	84967.1	65248.0	45182.6	30793.3
-20°	66531.6	77267.9	83892.8	86133.6	83892.8	77267.9	66531.6	52080.7	40379.1	28528.1	21773.5



REPORT NUMBER: P601478 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS16-1200R-40-80-2S

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	38584.2	44091.6	47470.3	48609.6	47470.3	44091.6	38584.2	31113.8	24683.3	19901.0	16374.8
-25°	22949.0	25133.0	26467.1	26916.0	26467.1	25133.0	22949.0	19969.3	16953.9	15501.1	13990.5
-27.5°	16112.3	16767.1	17165.8	17299.7	17165.8	16767.1	16112.3	15215.1	14095.8	13507.1	12836.0
-30°	13622.8	13885.4	14044.9	14098.4	14044.9	13885.4	13622.8	13261.7	12808.0	12391.9	11959.0
-32.5°	12377.8	12544.9	12646.2	12680.2	12646.2	12544.9	12377.8	12147.3	11856.7	11546.0	11228.3
-35°	11467.9	11589.2	11662.7	11687.3	11662.7	11589.2	11467.9	11300.2	11088.2	10837.3	10558.2
-37.5°	10706.1	10811.8	10875.6	10897.0	10875.6	10811.8	10706.1	10559.9	10374.6	10152.1	9889.5
-40°	9966.5	10065.2	10124.8	10144.7	10124.8	10065.2	9966.5	9829.7	9656.0	9447.0	9202.1
-42.5°	9212.0	9303.7	9359.0	9377.5	9359.0	9303.7	9212.0	9084.8	8923.0	8727.9	8325.6
-45°	8180.5	8413.1	8553.4	8600.3	8553.4	8413.1	8180.5	7857.1	7445.5	6948.4	6354.5
-47.5°	5995.8	6247.5	6399.2	6449.9	6399.2	6247.5	5995.8	5645.7	5199.5	4659.8	4029.9
-50°	3863.1	3891.0	3907.8	3913.4	3907.8	3891.0	3863.1	3824.2	3774.7	3714.7	3644.6
-52.5°	3564.0	3587.6	3601.8	3606.6	3601.8	3587.6	3564.0	3531.1	3489.1	3438.1	3378.5
-55°	3259.4	3294.5	3315.6	3322.7	3315.6	3294.5	3259.4	3210.4	3147.8	3072.0	2983.1
-57.5°	2796.2	2831.8	2853.3	2860.4	2853.3	2831.8	2796.2	2746.6	2683.2	2606.2	2515.9
-60°	2293.6	2322.6	2340.1	2345.9	2340.1	2322.6	2293.6	2253.2	2201.4	2138.6	2064.8
-62.5°	1841.1	1864.6	1878.8	1883.5	1878.8	1864.6	1841.1	1808.2	1766.2	1715.1	1655.1
-65°	1431.8	1451.5	1463.4	1467.3	1463.4	1451.5	1431.8	1404.4	1369.2	1326.5	1276.2
-67.5°	1051.8	1066.9	1076.1	1079.1	1076.1	1066.9	1051.8	1030.6	1003.4	970.4	931.7
-70°	721.7	733.1	739.9	742.2	739.9	733.1	721.7	705.9	685.6	660.8	631.8
-72.5°	441.1	449.0	453.7	455.3	453.7	449.0	441.1	430.0	415.8	398.6	378.4
-75°	217.7	221.6	223.9	224.7	223.9	221.6	217.7	212.3	205.4	197.0	187.1
-77.5°	90.4	91.4	92.0	92.2	92.0	91.4	90.4	89.0	87.3	85.1	82.5
-80°	50.5	50.9	51.0	51.1	51.0	50.9	50.5	50.1	49.6	48.9	48.1
-82.5°	34.7	34.9	35.1	35.1	35.1	34.9	34.7	34.5	34.1	33.7	33.1
-85°	20.8	20.9	21.0	21.0	21.0	20.9	20.8	20.6	20.4	20.2	19.9
-87.5°	8.9	9.0	9.0	9.0	9.0	9.0	8.9	8.9	8.8	8.7	8.6
-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°	8.5	8.3	8.2	8.0	7.8	7.6	7.4	7.1	6.9	6.6	6.4
85°	19.5	19.2	18.7	18.3	17.8	17.2	16.7	16.0	15.4	14.7	14.0
82.5°	32.5	31.9	31.1	30.3	29.4	28.4	27.4	26.3	25.2	23.9	22.7
80°	47.2	46.2	45.1	43.8	42.5	41.0	39.4	37.8	36.0	34.3	32.6
77.5°	79.6	76.3	72.7	68.7	64.3	59.6	54.6	50.4	48.2	45.9	43.4
75°	175.7	162.9	148.7	133.1	116.2	97.9	87.9	81.5	74.7	67.6	60.1
72.5°	355.1	328.9	299.9	268.0	233.5	208.3	185.5	161.2	135.5	108.6	88.5
70°	598.4	560.9	519.3	473.7	430.3	387.6	341.9	293.3	242.1	203.8	171.5
67.5°	887.2	837.2	781.7	724.2	668.1	607.9	543.5	475.3	413.5	352.7	289.3
65°	1218.7	1154.0	1082.4	1013.9	940.2	861.0	776.5	695.1	614.8	530.5	444.9
62.5°	1586.4	1509.3	1426.8	1339.7	1245.4	1144.2	1042.0	942.9	838.6	731.1	634.0
60°	1980.5	1885.8	1791.3	1688.3	1577.0	1458.2	1339.7	1214.3	1082.4	962.1	837.2
57.5°	2412.7	2301.9	2187.0	2061.6	1926.2	1791.3	1652.5	1505.8	1359.4	1209.1	1056.1
55°	2881.6	2757.4	2617.8	2465.6	2306.0	2148.1	1980.5	1811.6	1644.5	1470.1	1300.8
52.5°	3303.0	3179.1	3042.6	2894.1	2719.8	2529.5	2329.6	2138.6	1938.4	1745.1	1550.0
50°	3567.8	3485.2	3394.4	3278.6	3105.6	2921.1	2710.6	2481.9	2253.2	2029.4	1805.9
47.5°	3840.8	3744.2	3638.0	3529.0	3414.5	3273.8	3064.1	2842.0	2586.0	2322.6	2075.2
45°	5578.5	4714.4	3895.7	3771.6	3638.7	3505.6	3367.7	3160.7	2915.5	2638.5	2345.9
42.5°	7613.9	6823.2	5869.9	4767.5	3874.1	3723.0	3567.2	3413.3	3209.4	2939.5	2638.5
40°	8924.2	8616.1	7713.7	6711.2	5496.9	4163.3	3774.3	3598.3	3428.5	3209.4	2915.5
37.5°	9593.2	9264.1	8903.0	8364.3	7222.5	5940.8	4453.5	3791.5	3598.3	3413.3	3160.7
35°	10244.5	9893.9	9511.5	9098.3	8658.3	7481.0	6089.8	4453.5	3774.3	3567.2	3367.7
32.5°	10873.7	10501.8	10099.0	9661.6	9197.1	8706.5	7481.0	5940.8	4163.3	3723.0	3505.6
30°	11519.3	11099.3	10659.3	10201.9	9712.1	9197.1	8658.3	7222.5	5496.9	3874.1	3638.7
27.5°	12267.9	11700.8	11214.6	10712.3	10201.9	9661.6	9098.3	8364.3	6711.2	4767.5	3771.6
25°	13186.0	12425.3	11776.5	11214.6	10659.3	10099.0	9511.5	8903.0	7713.7	5869.9	3895.7
22.5°	14413.2	13304.4	12425.3	11700.8	11099.3	10501.8	9893.9	9264.1	8616.1	6823.2	4714.4
20°	16671.1	14413.2	13186.0	12267.9	11519.3	10873.7	10244.5	9593.2	8924.2	7613.9	5578.5
17.5°	21773.5	16374.8	13990.5	12836.0	11959.0	11228.3	10558.2	9889.5	9202.1	8325.6	6354.5
15°	28528.1	19901.0	15501.1	13507.1	12391.9	11546.0	10837.3	10152.1	9447.0	8727.9	6948.4
12.5°	40379.1	24683.3	16953.9	14095.8	12808.0	11856.7	11088.2	10374.6	9656.0	8923.0	7445.5
10°	52080.7	31113.8	19969.3	15215.1	13261.7	12147.3	11300.2	10559.9	9829.7	9084.8	7857.1
7.5°	66531.6	38584.2	22949.0	16112.3	13622.8	12377.8	11467.9	10706.1	9966.5	9212.0	8180.5
5°	77267.9	44091.6	25133.0	16767.1	13885.4	12544.9	11589.2	10811.8	10065.2	9303.7	8413.1
2.5°	83892.8	47470.3	26467.1	17165.8	14044.9	12646.2	11662.7	10875.6	10124.8	9359.0	8553.4
0°	86133.6	48609.6	26916.0	17299.7	14098.4	12680.2	11687.3	10897.0	10144.7	9377.5	8600.3
-2.5°	83892.8	47470.3	26467.1	17165.8	14044.9	12646.2	11662.7	10875.6	10124.8	9359.0	8553.4
-5°	77267.9	44091.6	25133.0	16767.1	13885.4	12544.9	11589.2	10811.8	10065.2	9303.7	8413.1
-7.5°	66531.6	38584.2	22949.0	16112.3	13622.8	12377.8	11467.9	10706.1	9966.5	9212.0	8180.5
-10°	52080.7	31113.8	19969.3	15215.1	13261.7	12147.3	11300.2	10559.9	9829.7	9084.8	7857.1
-12.5°	40379.1	24683.3	16953.9	14095.8	12808.0	11856.7	11088.2	10374.6	9656.0	8923.0	7445.5
-15°	28528.1	19901.0	15501.1	13507.1	12391.9	11546.0	10837.3	10152.1	9447.0	8727.9	6948.4
-17.5°	21773.5	16374.8	13990.5	12836.0	11959.0	11228.3	10558.2	9889.5	9202.1	8325.6	6354.5
-20°	16671.1	14413.2	13186.0	12267.9	11519.3	10873.7	10244.5	9593.2	8924.2	7613.9	5578.5



REPORT NUMBER: P601478 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS16-1200R-40-80-2S

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	14413.2	13304.4	12425.3	11700.8	11099.3	10501.8	9893.9	9264.1	8616.1	6823.2	4714.4
-25°	13186.0	12425.3	11776.5	11214.6	10659.3	10099.0	9511.5	8903.0	7713.7	5869.9	3895.7
-27.5°	12267.9	11700.8	11214.6	10712.3	10201.9	9661.6	9098.3	8364.3	6711.2	4767.5	3771.6
-30°	11519.3	11099.3	10659.3	10201.9	9712.1	9197.1	8658.3	7222.5	5496.9	3874.1	3638.7
-32.5°	10873.7	10501.8	10099.0	9661.6	9197.1	8706.5	7481.0	5940.8	4163.3	3723.0	3505.6
-35°	10244.5	9893.9	9511.5	9098.3	8658.3	7481.0	6089.8	4453.5	3774.3	3567.2	3367.7
-37.5°	9593.2	9264.1	8903.0	8364.3	7222.5	5940.8	4453.5	3791.5	3598.3	3413.3	3160.7
-40°	8924.2	8616.1	7713.7	6711.2	5496.9	4163.3	3774.3	3598.3	3428.5	3209.4	2915.5
-42.5°	7613.9	6823.2	5869.9	4767.5	3874.1	3723.0	3567.2	3413.3	3209.4	2939.5	2638.5
-45°	5578.5	4714.4	3895.7	3771.6	3638.7	3505.6	3367.7	3160.7	2915.5	2638.5	2345.9
-47.5°	3840.8	3744.2	3638.0	3529.0	3414.5	3273.8	3064.1	2842.0	2586.0	2322.6	2075.2
-50°	3567.8	3485.2	3394.4	3278.6	3105.6	2921.1	2710.6	2481.9	2253.2	2029.4	1805.9
-52.5°	3303.0	3179.1	3042.6	2894.1	2719.8	2529.5	2329.6	2138.6	1938.4	1745.1	1550.0
-55°	2881.6	2757.4	2617.8	2465.6	2306.0	2148.1	1980.5	1811.6	1644.5	1470.1	1300.8
-57.5°	2412.7	2301.9	2187.0	2061.6	1926.2	1791.3	1652.5	1505.8	1359.4	1209.1	1056.1
-60°	1980.5	1885.8	1791.3	1688.3	1577.0	1458.2	1339.7	1214.3	1082.4	962.1	837.2
-62.5°	1586.4	1509.3	1426.8	1339.7	1245.4	1144.2	1042.0	942.9	838.6	731.1	634.0
-65°	1218.7	1154.0	1082.4	1013.9	940.2	861.0	776.5	695.1	614.8	530.5	444.9
-67.5°	887.2	837.2	781.7	724.2	668.1	607.9	543.5	475.3	413.5	352.7	289.3
-70°	598.4	560.9	519.3	473.7	430.3	387.6	341.9	293.3	242.1	203.8	171.5
-72.5°	355.1	328.9	299.9	268.0	233.5	208.3	185.5	161.2	135.5	108.6	88.5
-75°	175.7	162.9	148.7	133.1	116.2	97.9	87.9	81.5	74.7	67.6	60.1
-77.5°	79.6	76.3	72.7	68.7	64.3	59.6	54.6	50.4	48.2	45.9	43.4
-80°	47.2	46.2	45.1	43.8	42.5	41.0	39.4	37.8	36.0	34.3	32.6
-82.5°	32.5	31.9	31.1	30.3	29.4	28.4	27.4	26.3	25.2	23.9	22.7
-85°	19.5	19.2	18.7	18.3	17.8	17.2	16.7	16.0	15.4	14.7	14.0
-87.5°	8.5	8.3	8.2	8.0	7.8	7.6	7.4	7.1	6.9	6.6	6.4
-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: P601478 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS16-1200R-40-80-2S

**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°	6.1	5.8	5.5	5.2	4.8	4.5	4.2	3.8	3.4	3.1	2.7
85°	13.2	12.4	11.6	10.8	9.9	9.0	8.3	7.6	6.9	6.1	5.4
82.5°	21.3	20.1	18.9	17.6	16.3	15.0	13.6	12.2	10.7	9.3	8.1
80°	30.8	28.9	27.0	25.0	23.0	20.9	19.1	17.2	15.3	13.3	11.4
77.5°	40.9	38.3	35.6	33.0	30.5	27.8	25.1	22.4	19.8	17.4	14.9
75°	52.3	48.4	45.1	41.7	38.3	34.7	31.5	28.2	24.9	21.4	18.4
72.5°	79.4	69.9	60.1	50.7	46.6	42.4	38.2	34.0	30.1	26.1	22.1
70°	137.8	102.8	84.3	72.7	60.8	50.1	45.3	40.3	35.2	30.7	26.1
67.5°	223.8	184.4	143.7	101.7	81.8	68.1	54.0	46.7	41.0	35.2	30.1
65°	371.3	295.1	219.8	173.2	125.3	87.3	71.7	55.8	46.7	40.3	34.0
62.5°	533.0	433.7	347.0	257.7	191.0	137.2	89.1	71.7	54.0	45.3	38.2
60°	712.7	598.4	480.7	378.4	278.6	197.0	137.2	87.3	68.1	50.1	42.4
57.5°	915.3	769.7	638.0	506.9	388.8	278.6	191.0	125.3	81.8	60.8	46.6
55°	1125.6	962.5	801.0	651.3	506.9	378.4	257.7	173.2	101.7	72.7	50.7
52.5°	1356.3	1162.3	978.3	801.0	638.0	480.7	347.0	219.8	143.7	84.3	60.1
50°	1590.2	1374.8	1162.3	962.5	769.7	598.4	433.7	295.1	184.4	102.8	69.9
47.5°	1826.3	1590.2	1356.3	1125.6	915.3	712.7	533.0	371.3	223.8	137.8	79.4
45°	2075.2	1805.9	1550.0	1300.8	1056.1	837.2	634.0	444.9	289.3	171.5	88.5
42.5°	2322.6	2029.4	1745.1	1470.1	1209.1	962.1	731.1	530.5	352.7	203.8	108.6
40°	2586.0	2253.2	1938.4	1644.5	1359.4	1082.4	838.6	614.8	413.5	242.1	135.5
37.5°	2842.0	2481.9	2138.6	1811.6	1505.8	1214.3	942.9	695.1	475.3	293.3	161.2
35°	3064.1	2710.6	2329.6	1980.5	1652.5	1339.7	1042.0	776.5	543.5	341.9	185.5
32.5°	3273.8	2921.1	2529.5	2148.1	1791.3	1458.2	1144.2	861.0	607.9	387.6	208.3
30°	3414.5	3105.6	2719.8	2306.0	1926.2	1577.0	1245.4	940.2	668.1	430.3	233.5
27.5°	3529.0	3278.6	2894.1	2465.6	2061.6	1688.3	1339.7	1013.9	724.2	473.7	268.0
25°	3638.0	3394.4	3042.6	2617.8	2187.0	1791.3	1426.8	1082.4	781.7	519.3	299.9
22.5°	3744.2	3485.2	3179.1	2757.4	2301.9	1885.8	1509.3	1154.0	837.2	560.9	328.9
20°	3840.8	3567.8	3303.0	2881.6	2412.7	1980.5	1586.4	1218.7	887.2	598.4	355.1
17.5°	4029.9	3644.6	3378.5	2983.1	2515.9	2064.8	1655.1	1276.2	931.7	631.8	378.4
15°	4659.8	3714.7	3438.1	3072.0	2606.2	2138.6	1715.1	1326.5	970.4	660.8	398.6
12.5°	5199.5	3774.7	3489.1	3147.8	2683.2	2201.4	1766.2	1369.2	1003.4	685.6	415.8
10°	5645.7	3824.2	3531.1	3210.4	2746.6	2253.2	1808.2	1404.4	1030.6	705.9	430.0
7.5°	5995.8	3863.1	3564.0	3259.4	2796.2	2293.6	1841.1	1431.8	1051.8	721.7	441.1
5°	6247.5	3891.0	3587.6	3294.5	2831.8	2322.6	1864.6	1451.5	1066.9	733.1	449.0
2.5°	6399.2	3907.8	3601.8	3315.6	2853.3	2340.1	1878.8	1463.4	1076.1	739.9	453.7
0°	6449.9	3913.4	3606.6	3322.7	2860.4	2345.9	1883.5	1467.3	1079.1	742.2	455.3
-2.5°	6399.2	3907.8	3601.8	3315.6	2853.3	2340.1	1878.8	1463.4	1076.1	739.9	453.7
-5°	6247.5	3891.0	3587.6	3294.5	2831.8	2322.6	1864.6	1451.5	1066.9	733.1	449.0
-7.5°	5995.8	3863.1	3564.0	3259.4	2796.2	2293.6	1841.1	1431.8	1051.8	721.7	441.1
-10°	5645.7	3824.2	3531.1	3210.4	2746.6	2253.2	1808.2	1404.4	1030.6	705.9	430.0
-12.5°	5199.5	3774.7	3489.1	3147.8	2683.2	2201.4	1766.2	1369.2	1003.4	685.6	415.8
-15°	4659.8	3714.7	3438.1	3072.0	2606.2	2138.6	1715.1	1326.5	970.4	660.8	398.6
-17.5°	4029.9	3644.6	3378.5	2983.1	2515.9	2064.8	1655.1	1276.2	931.7	631.8	378.4
-20°	3840.8	3567.8	3303.0	2881.6	2412.7	1980.5	1586.4	1218.7	887.2	598.4	355.1



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 CATALOG NUMBER: EPH-LS16-1200R-40-80-2S

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	3744.2	3485.2	3179.1	2757.4	2301.9	1885.8	1509.3	1154.0	837.2	560.9	328.9
-25°	3638.0	3394.4	3042.6	2617.8	2187.0	1791.3	1426.8	1082.4	781.7	519.3	299.9
-27.5°	3529.0	3278.6	2894.1	2465.6	2061.6	1688.3	1339.7	1013.9	724.2	473.7	268.0
-30°	3414.5	3105.6	2719.8	2306.0	1926.2	1577.0	1245.4	940.2	668.1	430.3	233.5
-32.5°	3273.8	2921.1	2529.5	2148.1	1791.3	1458.2	1144.2	861.0	607.9	387.6	208.3
-35°	3064.1	2710.6	2329.6	1980.5	1652.5	1339.7	1042.0	776.5	543.5	341.9	185.5
-37.5°	2842.0	2481.9	2138.6	1811.6	1505.8	1214.3	942.9	695.1	475.3	293.3	161.2
-40°	2586.0	2253.2	1938.4	1644.5	1359.4	1082.4	838.6	614.8	413.5	242.1	135.5
-42.5°	2322.6	2029.4	1745.1	1470.1	1209.1	962.1	731.1	530.5	352.7	203.8	108.6
-45°	2075.2	1805.9	1550.0	1300.8	1056.1	837.2	634.0	444.9	289.3	171.5	88.5
-47.5°	1826.3	1590.2	1356.3	1125.6	915.3	712.7	533.0	371.3	223.8	137.8	79.4
-50°	1590.2	1374.8	1162.3	962.5	769.7	598.4	433.7	295.1	184.4	102.8	69.9
-52.5°	1356.3	1162.3	978.3	801.0	638.0	480.7	347.0	219.8	143.7	84.3	60.1
-55°	1125.6	962.5	801.0	651.3	506.9	378.4	257.7	173.2	101.7	72.7	50.7
-57.5°	915.3	769.7	638.0	506.9	388.8	278.6	191.0	125.3	81.8	60.8	46.6
-60°	712.7	598.4	480.7	378.4	278.6	197.0	137.2	87.3	68.1	50.1	42.4
-62.5°	533.0	433.7	347.0	257.7	191.0	137.2	89.1	71.7	54.0	45.3	38.2
-65°	371.3	295.1	219.8	173.2	125.3	87.3	71.7	55.8	46.7	40.3	34.0
-67.5°	223.8	184.4	143.7	101.7	81.8	68.1	54.0	46.7	41.0	35.2	30.1
-70°	137.8	102.8	84.3	72.7	60.8	50.1	45.3	40.3	35.2	30.7	26.1
-72.5°	79.4	69.9	60.1	50.7	46.6	42.4	38.2	34.0	30.1	26.1	22.1
-75°	52.3	48.4	45.1	41.7	38.3	34.7	31.5	28.2	24.9	21.4	18.4
-77.5°	40.9	38.3	35.6	33.0	30.5	27.8	25.1	22.4	19.8	17.4	14.9
-80°	30.8	28.9	27.0	25.0	23.0	20.9	19.1	17.2	15.3	13.3	11.4
-82.5°	21.3	20.1	18.9	17.6	16.3	15.0	13.6	12.2	10.7	9.3	8.1
-85°	13.2	12.4	11.6	10.8	9.9	9.0	8.3	7.6	6.9	6.1	5.4
-87.5°	6.1	5.8	5.5	5.2	4.8	4.5	4.2	3.8	3.4	3.1	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



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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°	2.3	1.9	1.6	1.2	0.8	0.4	0.0
85°	4.7	3.9	3.1	2.3	1.6	0.8	0.0
82.5°	7.0	5.8	4.7	3.5	2.3	1.2	0.0
80°	9.4	7.8	6.2	4.7	3.1	1.6	0.0
77.5°	12.4	9.9	7.8	5.8	3.9	1.9	0.0
75°	15.4	12.4	9.4	7.0	4.7	2.3	0.0
72.5°	18.4	14.9	11.4	8.1	5.4	2.7	0.0
70°	21.4	17.4	13.3	9.3	6.1	3.1	0.0
67.5°	24.9	19.8	15.3	10.7	6.9	3.4	0.0
65°	28.2	22.4	17.2	12.2	7.6	3.8	0.0
62.5°	31.5	25.1	19.1	13.6	8.3	4.2	0.0
60°	34.7	27.8	20.9	15.0	9.0	4.5	0.0
57.5°	38.3	30.5	23.0	16.3	9.9	4.8	0.0
55°	41.7	33.0	25.0	17.6	10.8	5.2	0.0
52.5°	45.1	35.6	27.0	18.9	11.6	5.5	0.0
50°	48.4	38.3	28.9	20.1	12.4	5.8	0.0
47.5°	52.3	40.9	30.8	21.3	13.2	6.1	0.0
45°	60.1	43.4	32.6	22.7	14.0	6.4	0.0
42.5°	67.6	45.9	34.3	23.9	14.7	6.6	0.0
40°	74.7	48.2	36.0	25.2	15.4	6.9	0.0
37.5°	81.5	50.4	37.8	26.3	16.0	7.1	0.0
35°	87.9	54.6	39.4	27.4	16.7	7.4	0.0
32.5°	97.9	59.6	41.0	28.4	17.2	7.6	0.0
30°	116.2	64.3	42.5	29.4	17.8	7.8	0.0
27.5°	133.1	68.7	43.8	30.3	18.3	8.0	0.0
25°	148.7	72.7	45.1	31.1	18.7	8.2	0.0
22.5°	162.9	76.3	46.2	31.9	19.2	8.3	0.0
20°	175.7	79.6	47.2	32.5	19.5	8.5	0.0
17.5°	187.1	82.5	48.1	33.1	19.9	8.6	0.0
15°	197.0	85.1	48.9	33.7	20.2	8.7	0.0
12.5°	205.4	87.3	49.6	34.1	20.4	8.8	0.0
10°	212.3	89.0	50.1	34.5	20.6	8.9	0.0
7.5°	217.7	90.4	50.5	34.7	20.8	8.9	0.0
5°	221.6	91.4	50.9	34.9	20.9	9.0	0.0
2.5°	223.9	92.0	51.0	35.1	21.0	9.0	0.0
0°	224.7	92.2	51.1	35.1	21.0	9.0	0.0
-2.5°	223.9	92.0	51.0	35.1	21.0	9.0	0.0
-5°	221.6	91.4	50.9	34.9	20.9	9.0	0.0
-7.5°	217.7	90.4	50.5	34.7	20.8	8.9	0.0
-10°	212.3	89.0	50.1	34.5	20.6	8.9	0.0
-12.5°	205.4	87.3	49.6	34.1	20.4	8.8	0.0
-15°	197.0	85.1	48.9	33.7	20.2	8.7	0.0
-17.5°	187.1	82.5	48.1	33.1	19.9	8.6	0.0
-20°	175.7	79.6	47.2	32.5	19.5	8.5	0.0



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 CATALOG NUMBER: EPH-LS16-1200R-40-80-2S

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	162.9	76.3	46.2	31.9	19.2	8.3	0.0
-25°	148.7	72.7	45.1	31.1	18.7	8.2	0.0
-27.5°	133.1	68.7	43.8	30.3	18.3	8.0	0.0
-30°	116.2	64.3	42.5	29.4	17.8	7.8	0.0
-32.5°	97.9	59.6	41.0	28.4	17.2	7.6	0.0
-35°	87.9	54.6	39.4	27.4	16.7	7.4	0.0
-37.5°	81.5	50.4	37.8	26.3	16.0	7.1	0.0
-40°	74.7	48.2	36.0	25.2	15.4	6.9	0.0
-42.5°	67.6	45.9	34.3	23.9	14.7	6.6	0.0
-45°	60.1	43.4	32.6	22.7	14.0	6.4	0.0
-47.5°	52.3	40.9	30.8	21.3	13.2	6.1	0.0
-50°	48.4	38.3	28.9	20.1	12.4	5.8	0.0
-52.5°	45.1	35.6	27.0	18.9	11.6	5.5	0.0
-55°	41.7	33.0	25.0	17.6	10.8	5.2	0.0
-57.5°	38.3	30.5	23.0	16.3	9.9	4.8	0.0
-60°	34.7	27.8	20.9	15.0	9.0	4.5	0.0
-62.5°	31.5	25.1	19.1	13.6	8.3	4.2	0.0
-65°	28.2	22.4	17.2	12.2	7.6	3.8	0.0
-67.5°	24.9	19.8	15.3	10.7	6.9	3.4	0.0
-70°	21.4	17.4	13.3	9.3	6.1	3.1	0.0
-72.5°	18.4	14.9	11.4	8.1	5.4	2.7	0.0
-75°	15.4	12.4	9.4	7.0	4.7	2.3	0.0
-77.5°	12.4	9.9	7.8	5.8	3.9	1.9	0.0
-80°	9.4	7.8	6.2	4.7	3.1	1.6	0.0
-82.5°	7.0	5.8	4.7	3.5	2.3	1.2	0.0
-85°	4.7	3.9	3.1	2.3	1.6	0.8	0.0
-87.5°	2.3	1.9	1.6	1.2	0.8	0.4	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

