

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



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: EPHESUS

Report Number: P601482 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: EPH-LS16-1200L-57-70-1S

Issue Date: 8/3/2022



Test Information

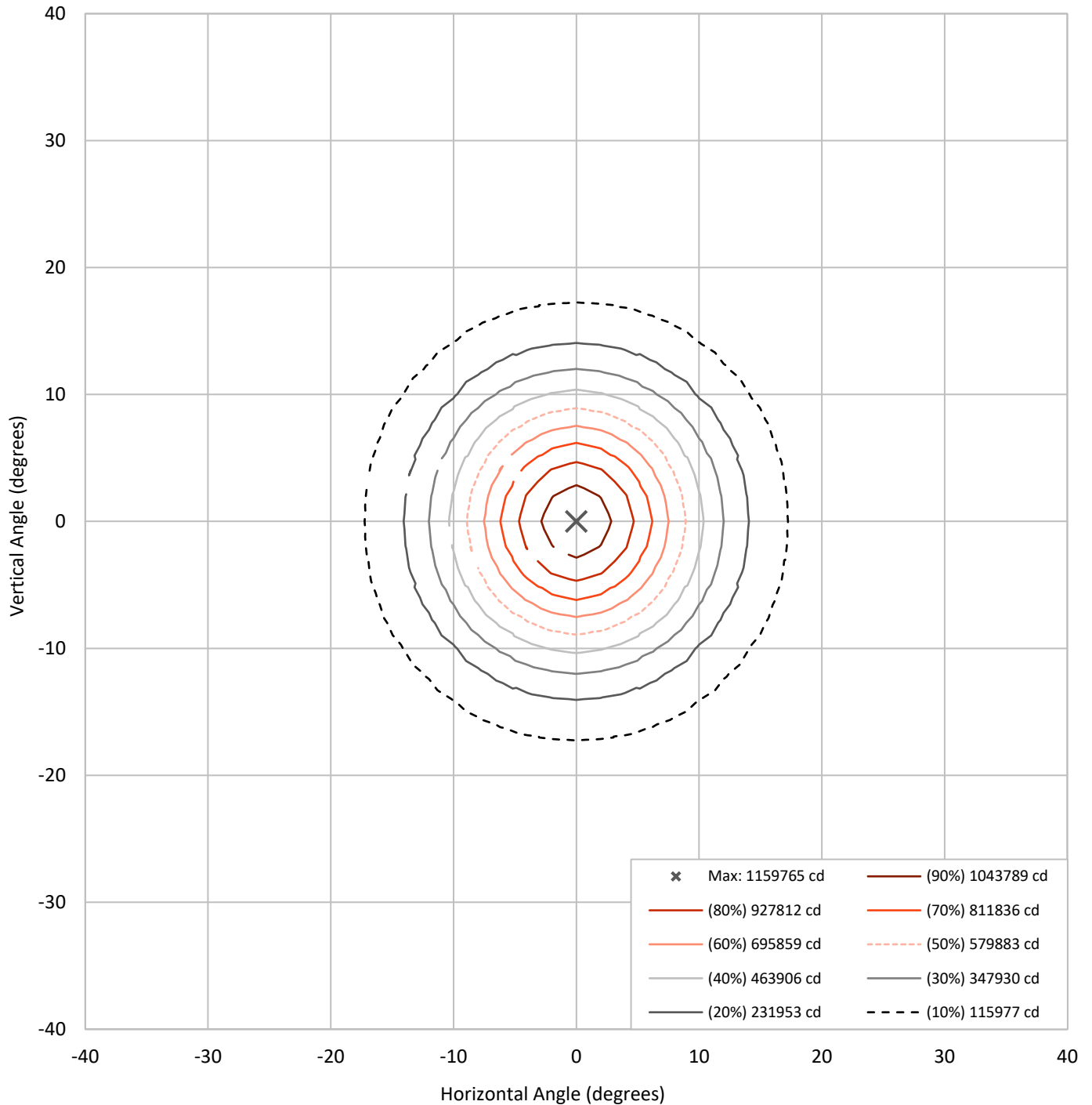
Test Method: LM-79-2019
Report Number: P601482 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-700-1)
Test Lab: INNOVATION CENTER
Issue Date: 8/3/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: EPHESUS
Catalog Number: EPH-LS16-1200L-57-70-1S
Description: EPHESUS LUMASPORT 16 LUMINAIRE
(16) 5700K, 70 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:	154954.4 lumens	Max Intensity:	1159765 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	118.9 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	17.8°H x 17.8°V	Field Angle (10%):	34.3°H x 34.3°V
Beam Lumens:	52215.4 lumens	Field Lumens:	118452.8 lumens
Beam Efficiency:	33.7%	Field Efficiency:	76.4%
Input Watts (W):	1303		
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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CATALOG NUMBER: EPH-LS16-1200L-57-70-1S

Iso-Candela Plot





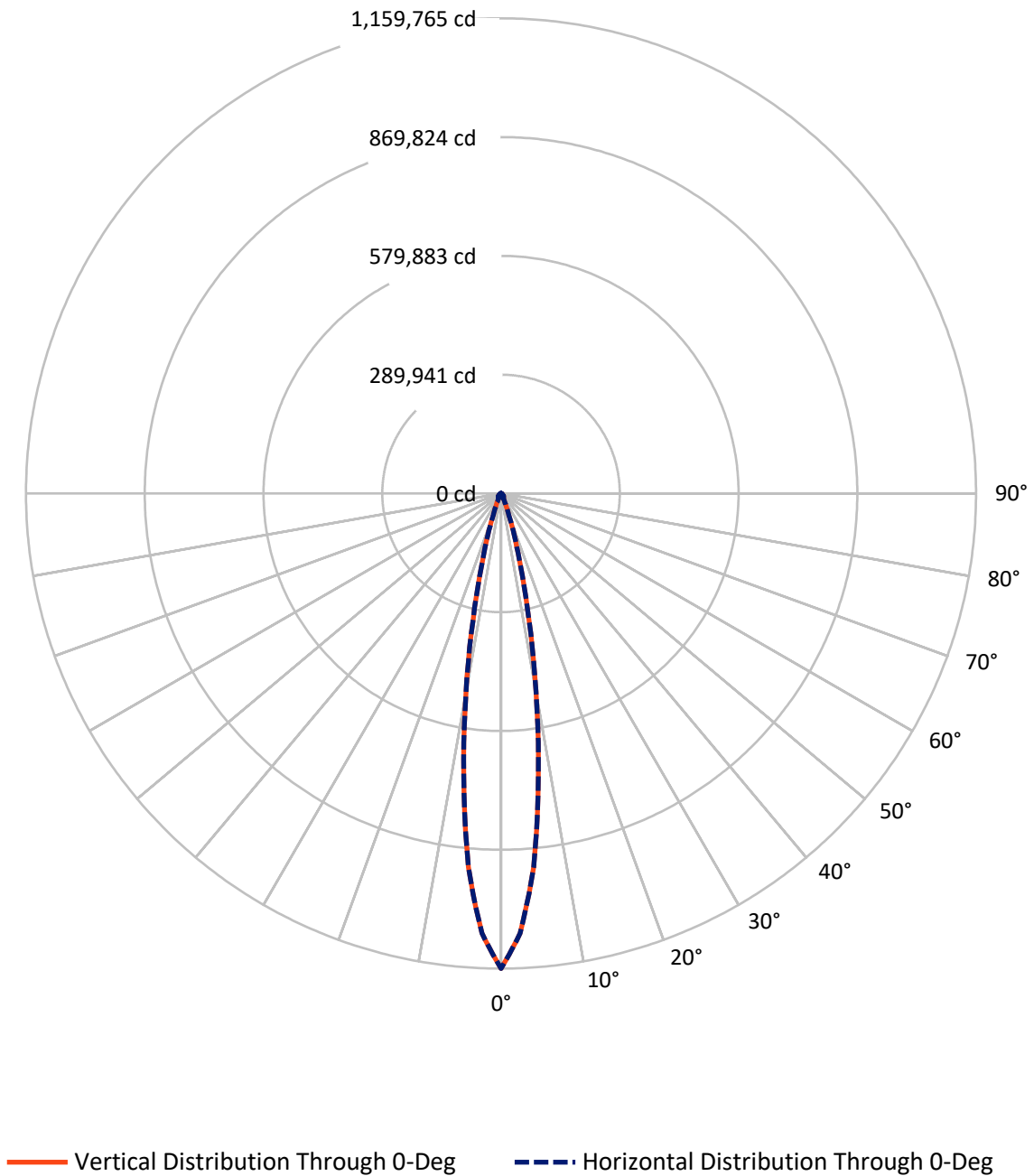
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Lumen Table

90	0.2	1.8	6.0	14.6	19.1	14.6	6.0	1.8	0.2							
80	0.2	1.8	6.0	14.6	19.1	14.6	6.0	1.8	0.2							
70	0.8	0.9	3.5	10.2	20.2	31.0	40.1	45.2	45.2	40.1	31.0	20.2	10.2	3.5	0.9	0.8
60		2.7	11.8	28.8	50.2	70.4	85.0	92.8	92.8	85.0	70.4	50.2	28.8	11.8	2.7	
50	2.0	6.3	23.5	50.6	79.2	132.2	203.4	243.2	243.2	203.4	132.2	79.2	50.6	23.5	6.3	2.0
40		10.7	35.5	68.5	156.6	266.8	306.8	321.1	321.1	306.8	266.8	156.6	68.5	35.5	10.7	
30	4.2	14.9	45.0	104.3	241.4	293.8	379.7	622.6	622.6	379.7	293.8	241.4	104.3	45.0	14.9	4.2
20		18.1	50.9	150.9	260.3	357.1	1606.8	5315.5	5315.5	1606.8	357.1	260.3	150.9	50.9	18.1	
10	5.3	19.8	53.9	174.6	264.1	571.9	5184.8	20569.1	20569.1	5184.8	571.9	264.1	174.6	53.9	19.8	5.3
0		19.8	53.9	174.6	264.1	571.9	5184.8	20569.1	20569.1	5184.8	571.9	264.1	174.6	53.9	19.8	
-10	4.2	18.1	50.9	150.9	260.3	357.1	1606.8	5315.5	5315.5	1606.8	357.1	260.3	150.9	50.9	18.1	4.2
-20		14.9	45.0	104.3	241.4	293.8	379.7	622.6	622.6	379.7	293.8	241.4	104.3	45.0	14.9	
-30	2.0	10.7	35.5	68.5	156.6	266.8	306.8	321.1	321.1	306.8	266.8	156.6	68.5	35.5	10.7	2.0
-40		6.3	23.5	50.6	79.2	132.2	203.4	243.2	243.2	203.4	132.2	79.2	50.6	23.5	6.3	
-50	0.8	2.7	11.8	28.8	50.2	70.4	85.0	92.8	92.8	85.0	70.4	50.2	28.8	11.8	2.7	0.8
-60		0.9	3.5	10.2	20.2	31.0	40.1	45.2	45.2	40.1	31.0	20.2	10.2	3.5	0.9	
-70	0.2	1.8	6.0	14.6	19.1	14.6	6.0	1.8	0.2							
-80		0.2	1.8	6.0	14.6	19.1	14.6	6.0	1.8	0.2						
-90	0.2	1.8	6.0	14.6	19.1	14.6	6.0	1.8	0.2							

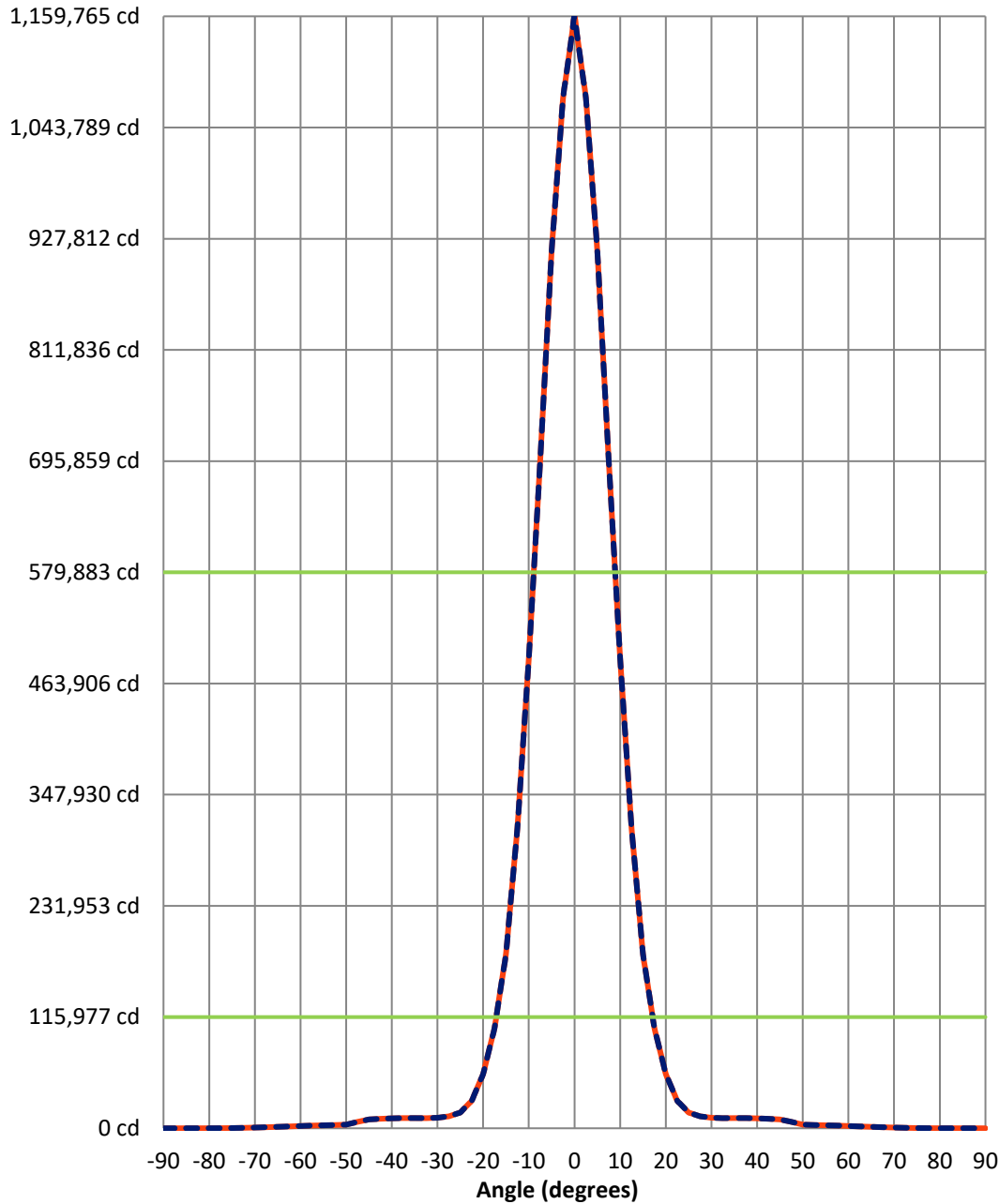
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
H Angle: 17.8°
V Angle: 17.8°
Lumens: 52215.4
Efficiency: 33.7%

Field:
H Angle: 34.3°
V Angle: 34.3°
Lumens: 118452.8
Efficiency: 76.4%

Spill:
Lumens: 36501.6
Efficiency: 23.6%

— 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	0.5	0.9	1.4	1.8	2.3	2.7	3.2	3.6	4.1	4.5
85°	0.0	0.9	1.8	2.8	3.7	4.6	5.5	6.4	7.2	8.1	9.0
82.5°	0.0	1.4	2.8	4.1	5.5	6.9	8.2	9.5	11.1	13.7	16.2
80°	0.0	1.8	3.7	5.5	7.3	9.1	11.2	14.8	18.3	21.7	25.1
77.5°	0.0	2.3	4.6	6.9	9.1	12.2	16.6	21.0	25.4	29.7	32.9
75°	0.0	2.7	5.5	8.2	11.2	16.6	22.0	27.3	32.1	34.7	37.2
72.5°	0.0	3.2	6.4	9.5	14.8	21.0	27.3	32.6	35.6	38.6	41.6
70°	0.0	3.6	7.2	11.1	18.3	25.4	32.1	35.6	39.1	42.5	45.8
67.5°	0.0	4.1	8.1	13.7	21.7	29.7	34.7	38.6	42.5	46.3	50.1
65°	0.0	4.5	9.0	16.2	25.1	32.9	37.2	41.6	45.8	50.1	57.9
62.5°	0.0	4.9	9.8	18.7	28.4	34.9	39.7	44.4	49.1	56.0	74.3
60°	0.0	5.3	10.6	21.1	31.6	36.9	42.1	47.3	52.3	70.5	90.3
57.5°	0.0	5.7	12.2	23.5	33.3	38.9	44.5	50.0	63.0	84.6	127.2
55°	0.0	6.1	13.7	25.8	34.8	40.8	46.8	52.7	75.3	104.5	173.1
52.5°	0.0	6.5	15.2	28.0	36.3	42.7	49.0	62.3	87.2	144.8	217.8
50°	0.0	6.8	16.6	30.2	37.8	44.5	51.2	72.4	105.6	183.9	293.6
47.5°	0.0	7.2	18.0	32.1	39.2	46.3	54.2	82.2	139.1	221.7	370.7
45°	0.0	7.5	19.4	33.1	40.5	47.9	62.2	91.6	171.4	287.8	445.1
42.5°	0.0	7.8	20.6	34.0	41.8	49.5	70.0	111.1	202.4	351.9	530.5
40°	0.0	8.1	21.9	34.9	43.0	51.1	77.3	137.0	240.1	413.3	614.6
37.5°	0.0	8.4	23.0	35.8	44.2	52.5	84.4	161.6	291.9	475.5	694.7
35°	0.0	8.7	24.1	36.6	45.3	56.6	91.0	184.9	340.9	543.6	777.2
32.5°	0.0	8.9	25.1	37.4	46.3	61.8	100.9	206.8	387.1	607.7	864.8
30°	0.0	9.2	26.1	38.1	47.3	66.6	118.4	231.4	430.4	667.8	947.0
27.5°	0.0	9.4	27.0	38.8	48.2	71.1	134.7	266.3	474.0	723.6	1023.5
25°	0.0	9.6	27.8	39.4	49.0	75.3	149.6	298.5	519.4	782.6	1094.6
22.5°	0.0	9.8	28.6	40.0	49.7	79.0	163.2	327.9	560.9	840.2	1168.9
20°	0.0	10.0	29.2	40.5	50.4	82.4	175.5	354.3	598.3	892.1	1236.0
17.5°	0.0	10.1	29.8	40.9	51.0	85.4	186.4	377.8	631.5	938.2	1295.6
15°	0.0	10.2	30.4	41.3	51.5	88.1	195.9	398.3	660.5	978.4	1347.7
12.5°	0.0	10.3	30.8	41.6	52.0	90.3	204.0	415.7	685.1	1012.7	1392.1
10°	0.0	10.4	31.2	41.9	52.3	92.1	210.6	430.0	705.4	1040.8	1428.5
7.5°	0.0	10.5	31.4	42.1	52.6	93.6	215.8	441.2	721.2	1062.8	1457.0
5°	0.0	10.6	31.6	42.3	52.8	94.6	219.5	449.2	732.5	1078.6	1477.4
2.5°	0.0	10.6	31.8	42.4	53.0	95.2	221.8	454.0	739.3	1088.0	1489.7
0°	0.0	10.6	31.8	42.4	53.0	95.4	222.5	455.6	741.6	1091.2	1493.8
-2.5°	0.0	10.6	31.8	42.4	53.0	95.2	221.8	454.0	739.3	1088.0	1489.7
-5°	0.0	10.6	31.6	42.3	52.8	94.6	219.5	449.2	732.5	1078.6	1477.4
-7.5°	0.0	10.5	31.4	42.1	52.6	93.6	215.8	441.2	721.2	1062.8	1457.0
-10°	0.0	10.4	31.2	41.9	52.3	92.1	210.6	430.0	705.4	1040.8	1428.5
-12.5°	0.0	10.3	30.8	41.6	52.0	90.3	204.0	415.7	685.1	1012.7	1392.1
-15°	0.0	10.2	30.4	41.3	51.5	88.1	195.9	398.3	660.5	978.4	1347.7
-17.5°	0.0	10.1	29.8	40.9	51.0	85.4	186.4	377.8	631.5	938.2	1295.6
-20°	0.0	10.0	29.2	40.5	50.4	82.4	175.5	354.3	598.3	892.1	1236.0

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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	9.8	28.6	40.0	49.7	79.0	163.2	327.9	560.9	840.2	1168.9
-25°	0.0	9.6	27.8	39.4	49.0	75.3	149.6	298.5	519.4	782.6	1094.6
-27.5°	0.0	9.4	27.0	38.8	48.2	71.1	134.7	266.3	474.0	723.6	1023.5
-30°	0.0	9.2	26.1	38.1	47.3	66.6	118.4	231.4	430.4	667.8	947.0
-32.5°	0.0	8.9	25.1	37.4	46.3	61.8	100.9	206.8	387.1	607.7	864.8
-35°	0.0	8.7	24.1	36.6	45.3	56.6	91.0	184.9	340.9	543.6	777.2
-37.5°	0.0	8.4	23.0	35.8	44.2	52.5	84.4	161.6	291.9	475.5	694.7
-40°	0.0	8.1	21.9	34.9	43.0	51.1	77.3	137.0	240.1	413.3	614.6
-42.5°	0.0	7.8	20.6	34.0	41.8	49.5	70.0	111.1	202.4	351.9	530.5
-45°	0.0	7.5	19.4	33.1	40.5	47.9	62.2	91.6	171.4	287.8	445.1
-47.5°	0.0	7.2	18.0	32.1	39.2	46.3	54.2	82.2	139.1	221.7	370.7
-50°	0.0	6.8	16.6	30.2	37.8	44.5	51.2	72.4	105.6	183.9	293.6
-52.5°	0.0	6.5	15.2	28.0	36.3	42.7	49.0	62.3	87.2	144.8	217.8
-55°	0.0	6.1	13.7	25.8	34.8	40.8	46.8	52.7	75.3	104.5	173.1
-57.5°	0.0	5.7	12.2	23.5	33.3	38.9	44.5	50.0	63.0	84.6	127.2
-60°	0.0	5.3	10.6	21.1	31.6	36.9	42.1	47.3	52.3	70.5	90.3
-62.5°	0.0	4.9	9.8	18.7	28.4	34.9	39.7	44.4	49.1	56.0	74.3
-65°	0.0	4.5	9.0	16.2	25.1	32.9	37.2	41.6	45.8	50.1	57.9
-67.5°	0.0	4.1	8.1	13.7	21.7	29.7	34.7	38.6	42.5	46.3	50.1
-70°	0.0	3.6	7.2	11.1	18.3	25.4	32.1	35.6	39.1	42.5	45.8
-72.5°	0.0	3.2	6.4	9.5	14.8	21.0	27.3	32.6	35.6	38.6	41.6
-75°	0.0	2.7	5.5	8.2	11.2	16.6	22.0	27.3	32.1	34.7	37.2
-77.5°	0.0	2.3	4.6	6.9	9.1	12.2	16.6	21.0	25.4	29.7	32.9
-80°	0.0	1.8	3.7	5.5	7.3	9.1	11.2	14.8	18.3	21.7	25.1
-82.5°	0.0	1.4	2.8	4.1	5.5	6.9	8.2	9.5	11.1	13.7	16.2
-85°	0.0	0.9	1.8	2.8	3.7	4.6	5.5	6.4	7.2	8.1	9.0
-87.5°	0.0	0.5	0.9	1.4	1.8	2.3	2.7	3.2	3.6	4.1	4.5
-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°	4.9	5.3	5.7	6.1	6.5	6.8	7.2	7.5	7.8	8.1	8.4
85°	9.8	10.6	12.2	13.7	15.2	16.6	18.0	19.4	20.6	21.9	23.0
82.5°	18.7	21.1	23.5	25.8	28.0	30.2	32.1	33.1	34.0	34.9	35.8
80°	28.4	31.6	33.3	34.8	36.3	37.8	39.2	40.5	41.8	43.0	44.2
77.5°	34.9	36.9	38.9	40.8	42.7	44.5	46.3	47.9	49.5	51.1	52.5
75°	39.7	42.1	44.5	46.8	49.0	51.2	54.2	62.2	70.0	77.3	84.4
72.5°	44.4	47.3	50.0	52.7	62.3	72.4	82.2	91.6	111.1	137.0	161.6
70°	49.1	52.3	63.0	75.3	87.2	105.6	139.1	171.4	202.4	240.1	291.9
67.5°	56.0	70.5	84.6	104.5	144.8	183.9	221.7	287.8	351.9	413.3	475.5
65°	74.3	90.3	127.2	173.1	217.8	293.6	370.7	445.1	530.5	614.6	694.7
62.5°	92.2	138.5	190.2	255.9	346.1	433.8	533.0	633.7	730.6	841.6	949.9
60°	138.5	195.9	276.9	377.8	480.9	598.3	712.2	840.2	969.8	1094.6	1231.4
57.5°	190.2	276.9	388.4	507.0	637.7	770.2	921.2	1067.3	1226.0	1381.9	1533.0
55°	255.9	377.8	507.0	650.9	802.7	970.2	1139.4	1321.1	1496.7	1674.3	1844.4
52.5°	346.1	480.9	637.7	802.7	986.6	1177.5	1378.6	1578.0	1776.6	1970.4	2163.1
50°	433.8	598.3	770.2	970.2	1177.5	1397.9	1619.0	1838.6	2058.0	2273.4	2480.2
47.5°	533.0	712.2	921.2	1139.4	1378.6	1619.0	1859.4	2102.0	2340.2	2570.3	2791.6
45°	633.7	840.2	1067.3	1321.1	1578.0	1838.6	2102.0	2362.6	2615.6	2842.8	3000.2
42.5°	730.6	969.8	1226.0	1496.7	1776.6	2058.0	2340.2	2615.6	2858.2	3031.5	3192.0
40°	841.6	1094.6	1381.9	1674.3	1970.4	2273.4	2570.3	2842.8	3031.5	3206.9	3371.5
37.5°	949.9	1231.4	1533.0	1844.4	2163.1	2480.2	2791.6	3000.2	3192.0	3371.5	3628.6
35°	1052.7	1361.5	1682.3	2010.9	2346.9	2677.9	2938.2	3147.9	3341.3	3605.4	4408.7
32.5°	1158.7	1484.4	1823.7	2172.2	2521.4	2846.4	3072.8	3281.6	3536.4	4077.8	6104.6
30°	1263.7	1605.5	1958.6	2324.2	2685.9	2964.9	3193.3	3422.8	3739.9	5598.5	7594.8
27.5°	1361.5	1718.9	2089.0	2466.1	2829.1	3075.9	3304.3	3601.8	4766.7	6992.8	8939.3
25°	1451.8	1823.7	2209.7	2597.7	2924.5	3173.7	3421.8	3769.0	6023.7	8173.2	9473.0
22.5°	1536.5	1919.8	2320.3	2718.5	3012.0	3261.9	3564.9	4706.2	7124.7	9230.5	9778.2
20°	1615.1	2010.9	2420.3	2821.1	3091.5	3342.0	3695.1	5691.5	8055.8	9490.9	10014.0
17.5°	1685.0	2092.1	2509.6	2886.2	3158.4	3430.7	3925.7	6576.4	8893.7	9725.8	10206.3
15°	1746.1	2163.1	2587.7	2943.3	3216.2	3525.2	4643.9	7272.1	9325.1	9919.1	10374.5
12.5°	1798.1	2223.6	2654.3	2992.0	3265.6	3606.0	5259.2	7857.4	9489.9	10054.8	10449.7
10°	1840.9	2273.4	2709.1	3032.1	3306.3	3672.7	5768.1	8342.1	9626.6	10167.5	10512.3
7.5°	1874.4	2312.3	2752.0	3063.6	3338.3	3725.0	6167.3	8722.8	9734.2	10256.3	10561.7
5°	1898.4	2340.2	2782.8	3086.1	3361.2	3762.6	6454.3	8996.8	9811.6	10320.4	10597.4
2.5°	1912.8	2357.0	2801.3	3099.7	3375.0	3785.2	6627.3	9162.0	9858.4	10359.1	10619.0
0°	1917.6	2362.6	2807.5	3104.2	3379.6	3792.8	6685.1	9217.2	9874.0	10372.0	10626.2
-2.5°	1912.8	2357.0	2801.3	3099.7	3375.0	3785.2	6627.3	9162.0	9858.4	10359.1	10619.0
-5°	1898.4	2340.2	2782.8	3086.1	3361.2	3762.6	6454.3	8996.8	9811.6	10320.4	10597.4
-7.5°	1874.4	2312.3	2752.0	3063.6	3338.3	3725.0	6167.3	8722.8	9734.2	10256.3	10561.7
-10°	1840.9	2273.4	2709.1	3032.1	3306.3	3672.7	5768.1	8342.1	9626.6	10167.5	10512.3
-12.5°	1798.1	2223.6	2654.3	2992.0	3265.6	3606.0	5259.2	7857.4	9489.9	10054.8	10449.7
-15°	1746.1	2163.1	2587.7	2943.3	3216.2	3525.2	4643.9	7272.1	9325.1	9919.1	10374.5
-17.5°	1685.0	2092.1	2509.6	2886.2	3158.4	3430.7	3925.7	6576.4	8893.7	9725.8	10206.3
-20°	1615.1	2010.9	2420.3	2821.1	3091.5	3342.0	3695.1	5691.5	8055.8	9490.9	10014.0

Classified

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

Scaled Data Report



REPORT NUMBER: P601482 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-LS16-1200L-57-70-1S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1536.5	1919.8	2320.3	2718.5	3012.0	3261.9	3564.9	4706.2	7124.7	9230.5	9778.2
-25°	1451.8	1823.7	2209.7	2597.7	2924.5	3173.7	3421.8	3769.0	6023.7	8173.2	9473.0
-27.5°	1361.5	1718.9	2089.0	2466.1	2829.1	3075.9	3304.3	3601.8	4766.7	6992.8	8939.3
-30°	1263.7	1605.5	1958.6	2324.2	2685.9	2964.9	3193.3	3422.8	3739.9	5598.5	7594.8
-32.5°	1158.7	1484.4	1823.7	2172.2	2521.4	2846.4	3072.8	3281.6	3536.4	4077.8	6104.6
-35°	1052.7	1361.5	1682.3	2010.9	2346.9	2677.9	2938.2	3147.9	3341.3	3605.4	4408.7
-37.5°	949.9	1231.4	1533.0	1844.4	2163.1	2480.2	2791.6	3000.2	3192.0	3371.5	3628.6
-40°	841.6	1094.6	1381.9	1674.3	1970.4	2273.4	2570.3	2842.8	3031.5	3206.9	3371.5
-42.5°	730.6	969.8	1226.0	1496.7	1776.6	2058.0	2340.2	2615.6	2858.2	3031.5	3192.0
-45°	633.7	840.2	1067.3	1321.1	1578.0	1838.6	2102.0	2362.6	2615.6	2842.8	3000.2
-47.5°	533.0	712.2	921.2	1139.4	1378.6	1619.0	1859.4	2102.0	2340.2	2570.3	2791.6
-50°	433.8	598.3	770.2	970.2	1177.5	1397.9	1619.0	1838.6	2058.0	2273.4	2480.2
-52.5°	346.1	480.9	637.7	802.7	986.6	1177.5	1378.6	1578.0	1776.6	1970.4	2163.1
-55°	255.9	377.8	507.0	650.9	802.7	970.2	1139.4	1321.1	1496.7	1674.3	1844.4
-57.5°	190.2	276.9	388.4	507.0	637.7	770.2	921.2	1067.3	1226.0	1381.9	1533.0
-60°	138.5	195.9	276.9	377.8	480.9	598.3	712.2	840.2	969.8	1094.6	1231.4
-62.5°	92.2	138.5	190.2	255.9	346.1	433.8	533.0	633.7	730.6	841.6	949.9
-65°	74.3	90.3	127.2	173.1	217.8	293.6	370.7	445.1	530.5	614.6	694.7
-67.5°	56.0	70.5	84.6	104.5	144.8	183.9	221.7	287.8	351.9	413.3	475.5
-70°	49.1	52.3	63.0	75.3	87.2	105.6	139.1	171.4	202.4	240.1	291.9
-72.5°	44.4	47.3	50.0	52.7	62.3	72.4	82.2	91.6	111.1	137.0	161.6
-75°	39.7	42.1	44.5	46.8	49.0	51.2	54.2	62.2	70.0	77.3	84.4
-77.5°	34.9	36.9	38.9	40.8	42.7	44.5	46.3	47.9	49.5	51.1	52.5
-80°	28.4	31.6	33.3	34.8	36.3	37.8	39.2	40.5	41.8	43.0	44.2
-82.5°	18.7	21.1	23.5	25.8	28.0	30.2	32.1	33.1	34.0	34.9	35.8
-85°	9.8	10.6	12.2	13.7	15.2	16.6	18.0	19.4	20.6	21.9	23.0
-87.5°	4.9	5.3	5.7	6.1	6.5	6.8	7.2	7.5	7.8	8.1	8.4
-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: P601482 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-LS16-1200L-57-70-1S

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°	8.7	8.9	9.2	9.4	9.6	9.8	10.0	10.1	10.2	10.3	10.4
85°	24.1	25.1	26.1	27.0	27.8	28.6	29.2	29.8	30.4	30.8	31.2
82.5°	36.6	37.4	38.1	38.8	39.4	40.0	40.5	40.9	41.3	41.6	41.9
80°	45.3	46.3	47.3	48.2	49.0	49.7	50.4	51.0	51.5	52.0	52.3
77.5°	56.6	61.8	66.6	71.1	75.3	79.0	82.4	85.4	88.1	90.3	92.1
75°	91.0	100.9	118.4	134.7	149.6	163.2	175.5	186.4	195.9	204.0	210.6
72.5°	184.9	206.8	231.4	266.3	298.5	327.9	354.3	377.8	398.3	415.7	430.0
70°	340.9	387.1	430.4	474.0	519.4	560.9	598.3	631.5	660.5	685.1	705.4
67.5°	543.6	607.7	667.8	723.6	782.6	840.2	892.1	938.2	978.4	1012.7	1040.8
65°	777.2	864.8	947.0	1023.5	1094.6	1168.9	1236.0	1295.6	1347.7	1392.1	1428.5
62.5°	1052.7	1158.7	1263.7	1361.5	1451.8	1536.5	1615.1	1685.0	1746.1	1798.1	1840.9
60°	1361.5	1484.4	1605.5	1718.9	1823.7	1919.8	2010.9	2092.1	2163.1	2223.6	2273.4
57.5°	1682.3	1823.7	1958.6	2089.0	2209.7	2320.3	2420.3	2509.6	2587.7	2654.3	2709.1
55°	2010.9	2172.2	2324.2	2466.1	2597.7	2718.5	2821.1	2886.2	2943.3	2992.0	3032.1
52.5°	2346.9	2521.4	2685.9	2829.1	2924.5	3012.0	3091.5	3158.4	3216.2	3265.6	3306.3
50°	2677.9	2846.4	2964.9	3075.9	3173.7	3261.9	3342.0	3430.7	3525.2	3606.0	3672.7
47.5°	2938.2	3072.8	3193.3	3304.3	3421.8	3564.9	3695.1	3925.7	4643.9	5259.2	5768.1
45°	3147.9	3281.6	3422.8	3601.8	3769.0	4706.2	5691.5	6576.4	7272.1	7857.4	8342.1
42.5°	3341.3	3536.4	3739.9	4766.7	6023.7	7124.7	8055.8	8893.7	9325.1	9489.9	9626.6
40°	3605.4	4077.8	5598.5	6992.8	8173.2	9230.5	9490.9	9725.8	9919.1	10054.8	10167.5
37.5°	4408.7	6104.6	7594.8	8939.3	9473.0	9778.2	10014.0	10206.3	10374.5	10449.7	10512.3
35°	6274.5	7899.2	9266.2	9638.0	9961.0	10209.2	10405.7	10511.7	10606.0	10626.2	10626.2
32.5°	7899.2	9306.9	9721.6	10058.4	10342.4	10492.7	10618.3	10626.2	10626.2	10615.4	10596.8
30°	9266.2	9721.6	10091.2	10391.3	10545.9	10626.2	10626.2	10608.8	10581.1	10599.0	10727.8
27.5°	9638.0	10058.4	10391.3	10563.8	10626.2	10625.3	10589.1	10606.9	10797.4	10964.6	11490.1
25°	9961.0	10342.4	10545.9	10626.2	10620.5	10579.0	10706.3	10934.7	11624.5	12307.2	13569.7
22.5°	10209.2	10492.7	10626.2	10625.3	10579.0	10739.9	11113.2	12035.1	13541.6	15512.0	18812.2
20°	10405.7	10618.3	10626.2	10589.1	10706.3	11113.2	12174.3	14313.1	17346.1	24065.5	31309.6
17.5°	10511.7	10626.2	10608.8	10606.9	10934.7	12035.1	14313.1	18630.4	26789.1	41087.0	55729.4
15°	10606.0	10626.2	10581.1	10797.4	11624.5	13541.6	17346.1	26789.1	44440.7	67474.9	95683.7
12.5°	10626.2	10615.4	10599.0	10964.6	12307.2	15512.0	24065.5	41087.0	67474.9	102535.0	152274.4
10°	10626.2	10596.8	10727.8	11490.1	13569.7	18812.2	31309.6	55729.4	95683.7	152274.4	221361.9
7.5°	10626.2	10582.0	10830.3	11911.7	14797.4	23047.8	42040.2	75925.2	128339.6	201912.4	314532.3
5°	10626.2	10571.4	10904.8	12219.4	15697.3	26170.5	50012.4	91558.2	157367.3	256768.8	402930.1
2.5°	10626.2	10564.9	10950.1	12406.8	16247.1	28086.2	54931.7	101284.0	175644.0	297803.8	467177.0
0°	10626.2	10562.7	10965.3	12469.7	16432.0	28732.2	56595.6	104588.5	181896.3	313092.8	490120.9
-2.5°	10626.2	10564.9	10950.1	12406.8	16247.1	28086.2	54931.7	101284.0	175644.0	297803.8	467177.0
-5°	10626.2	10571.4	10904.8	12219.4	15697.3	26170.5	50012.4	91558.2	157367.3	256768.8	402930.1
-7.5°	10626.2	10582.0	10830.3	11911.7	14797.4	23047.8	42040.2	75925.2	128339.6	201912.4	314532.3
-10°	10626.2	10596.8	10727.8	11490.1	13569.7	18812.2	31309.6	55729.4	95683.7	152274.4	221361.9
-12.5°	10626.2	10615.4	10599.0	10964.6	12307.2	15512.0	24065.5	41087.0	67474.9	102535.0	152274.4
-15°	10606.0	10626.2	10581.1	10797.4	11624.5	13541.6	17346.1	26789.1	44440.7	67474.9	95683.7
-17.5°	10511.7	10626.2	10608.8	10606.9	10934.7	12035.1	14313.1	18630.4	26789.1	41087.0	55729.4
-20°	10405.7	10618.3	10626.2	10589.1	10706.3	11113.2	12174.3	14313.1	17346.1	24065.5	31309.6



REPORT NUMBER: P601482 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-LS16-1200L-57-70-1S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	10209.2	10492.7	10626.2	10625.3	10579.0	10739.9	11113.2	12035.1	13541.6	15512.0	18812.2
-25°	9961.0	10342.4	10545.9	10626.2	10620.5	10579.0	10706.3	10934.7	11624.5	12307.2	13569.7
-27.5°	9638.0	10058.4	10391.3	10563.8	10626.2	10625.3	10589.1	10606.9	10797.4	10964.6	11490.1
-30°	9266.2	9721.6	10091.2	10391.3	10545.9	10626.2	10626.2	10608.8	10581.1	10599.0	10727.8
-32.5°	7899.2	9306.9	9721.6	10058.4	10342.4	10492.7	10618.3	10626.2	10626.2	10615.4	10596.8
-35°	6274.5	7899.2	9266.2	9638.0	9961.0	10209.2	10405.7	10511.7	10606.0	10626.2	10626.2
-37.5°	4408.7	6104.6	7594.8	8939.3	9473.0	9778.2	10014.0	10206.3	10374.5	10449.7	10512.3
-40°	3605.4	4077.8	5598.5	6992.8	8173.2	9230.5	9490.9	9725.8	9919.1	10054.8	10167.5
-42.5°	3341.3	3536.4	3739.9	4766.7	6023.7	7124.7	8055.8	8893.7	9325.1	9489.9	9626.6
-45°	3147.9	3281.6	3422.8	3601.8	3769.0	4706.2	5691.5	6576.4	7272.1	7857.4	8342.1
-47.5°	2938.2	3072.8	3193.3	3304.3	3421.8	3564.9	3695.1	3925.7	4643.9	5259.2	5768.1
-50°	2677.9	2846.4	2964.9	3075.9	3173.7	3261.9	3342.0	3430.7	3525.2	3606.0	3672.7
-52.5°	2346.9	2521.4	2685.9	2829.1	2924.5	3012.0	3091.5	3158.4	3216.2	3265.6	3306.3
-55°	2010.9	2172.2	2324.2	2466.1	2597.7	2718.5	2821.1	2886.2	2943.3	2992.0	3032.1
-57.5°	1682.3	1823.7	1958.6	2089.0	2209.7	2320.3	2420.3	2509.6	2587.7	2654.3	2709.1
-60°	1361.5	1484.4	1605.5	1718.9	1823.7	1919.8	2010.9	2092.1	2163.1	2223.6	2273.4
-62.5°	1052.7	1158.7	1263.7	1361.5	1451.8	1536.5	1615.1	1685.0	1746.1	1798.1	1840.9
-65°	777.2	864.8	947.0	1023.5	1094.6	1168.9	1236.0	1295.6	1347.7	1392.1	1428.5
-67.5°	543.6	607.7	667.8	723.6	782.6	840.2	892.1	938.2	978.4	1012.7	1040.8
-70°	340.9	387.1	430.4	474.0	519.4	560.9	598.3	631.5	660.5	685.1	705.4
-72.5°	184.9	206.8	231.4	266.3	298.5	327.9	354.3	377.8	398.3	415.7	430.0
-75°	91.0	100.9	118.4	134.7	149.6	163.2	175.5	186.4	195.9	204.0	210.6
-77.5°	56.6	61.8	66.6	71.1	75.3	79.0	82.4	85.4	88.1	90.3	92.1
-80°	45.3	46.3	47.3	48.2	49.0	49.7	50.4	51.0	51.5	52.0	52.3
-82.5°	36.6	37.4	38.1	38.8	39.4	40.0	40.5	40.9	41.3	41.6	41.9
-85°	24.1	25.1	26.1	27.0	27.8	28.6	29.2	29.8	30.4	30.8	31.2
-87.5°	8.7	8.9	9.2	9.4	9.6	9.8	10.0	10.1	10.2	10.3	10.4
-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: P601482 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200L-57-70-1S

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°	10.5	10.6	10.6	10.6	10.6	10.6	10.5	10.4	10.3	10.2	10.1
85°	31.4	31.6	31.8	31.8	31.8	31.6	31.4	31.2	30.8	30.4	29.8
82.5°	42.1	42.3	42.4	42.4	42.4	42.3	42.1	41.9	41.6	41.3	40.9
80°	52.6	52.8	53.0	53.0	53.0	52.8	52.6	52.3	52.0	51.5	51.0
77.5°	93.6	94.6	95.2	95.4	95.2	94.6	93.6	92.1	90.3	88.1	85.4
75°	215.8	219.5	221.8	222.5	221.8	219.5	215.8	210.6	204.0	195.9	186.4
72.5°	441.2	449.2	454.0	455.6	454.0	449.2	441.2	430.0	415.7	398.3	377.8
70°	721.2	732.5	739.3	741.6	739.3	732.5	721.2	705.4	685.1	660.5	631.5
67.5°	1062.8	1078.6	1088.0	1091.2	1088.0	1078.6	1062.8	1040.8	1012.7	978.4	938.2
65°	1457.0	1477.4	1489.7	1493.8	1489.7	1477.4	1457.0	1428.5	1392.1	1347.7	1295.6
62.5°	1874.4	1898.4	1912.8	1917.6	1912.8	1898.4	1874.4	1840.9	1798.1	1746.1	1685.0
60°	2312.3	2340.2	2357.0	2362.6	2357.0	2340.2	2312.3	2273.4	2223.6	2163.1	2092.1
57.5°	2752.0	2782.8	2801.3	2807.5	2801.3	2782.8	2752.0	2709.1	2654.3	2587.7	2509.6
55°	3063.6	3086.1	3099.7	3104.2	3099.7	3086.1	3063.6	3032.1	2992.0	2943.3	2886.2
52.5°	3338.3	3361.2	3375.0	3379.6	3375.0	3361.2	3338.3	3306.3	3265.6	3216.2	3158.4
50°	3725.0	3762.6	3785.2	3792.8	3785.2	3762.6	3725.0	3672.7	3606.0	3525.2	3430.7
47.5°	6167.3	6454.3	6627.3	6685.1	6627.3	6454.3	6167.3	5768.1	5259.2	4643.9	3925.7
45°	8722.8	8996.8	9162.0	9217.2	9162.0	8996.8	8722.8	8342.1	7857.4	7272.1	6576.4
42.5°	9734.2	9811.6	9858.4	9874.0	9858.4	9811.6	9734.2	9626.6	9489.9	9325.1	8893.7
40°	10256.3	10320.4	10359.1	10372.0	10359.1	10320.4	10256.3	10167.5	10054.8	9919.1	9725.8
37.5°	10561.7	10597.4	10619.0	10626.2	10619.0	10597.4	10561.7	10512.3	10449.7	10374.5	10206.3
35°	10626.2	10626.2	10626.2	10626.2	10626.2	10626.2	10626.2	10626.2	10626.2	10606.0	10511.7
32.5°	10582.0	10571.4	10564.9	10562.7	10564.9	10571.4	10582.0	10596.8	10615.4	10626.2	10626.2
30°	10830.3	10904.8	10950.1	10965.3	10950.1	10904.8	10830.3	10727.8	10599.0	10581.1	10608.8
27.5°	11911.7	12219.4	12406.8	12469.7	12406.8	12219.4	11911.7	11490.1	10964.6	10797.4	10606.9
25°	14797.4	15697.3	16247.1	16432.0	16247.1	15697.3	14797.4	13569.7	12307.2	11624.5	10934.7
22.5°	23047.8	26170.5	28086.2	28732.2	28086.2	26170.5	23047.8	18812.2	15512.0	13541.6	12035.1
20°	42040.2	50012.4	54931.7	56595.6	54931.7	50012.4	42040.2	31309.6	24065.5	17346.1	14313.1
17.5°	75925.2	91558.2	101284.0	104588.5	101284.0	91558.2	75925.2	55729.4	41087.0	26789.1	18630.4
15°	128339.6	157367.3	175644.0	181896.3	175644.0	157367.3	128339.6	95683.7	67474.9	44440.7	26789.1
12.5°	201912.4	256768.8	297803.8	313092.8	297803.8	256768.8	201912.4	152274.4	102535.0	67474.9	41087.0
10°	314532.3	402930.1	467177.0	490120.9	467177.0	402930.1	314532.3	221361.9	152274.4	95683.7	55729.4
7.5°	445584.4	568433.3	660925.4	696956.6	660925.4	568433.3	445584.4	314532.3	201912.4	128339.6	75925.2
5°	568433.3	735666.4	866113.4	915202.4	866113.4	735666.4	568433.3	402930.1	256768.8	157367.3	91558.2
2.5°	660925.4	866113.4	#####	#####	#####	866113.4	660925.4	467177.0	297803.8	175644.0	101284.0
0°	696956.6	915202.4	#####	#####	#####	915202.4	696956.6	490120.9	313092.8	181896.3	104588.5
-2.5°	660925.4	866113.4	#####	#####	#####	866113.4	660925.4	467177.0	297803.8	175644.0	101284.0
-5°	568433.3	735666.4	866113.4	915202.4	866113.4	735666.4	568433.3	402930.1	256768.8	157367.3	91558.2
-7.5°	445584.4	568433.3	660925.4	696956.6	660925.4	568433.3	445584.4	314532.3	201912.4	128339.6	75925.2
-10°	314532.3	402930.1	467177.0	490120.9	467177.0	402930.1	314532.3	221361.9	152274.4	95683.7	55729.4
-12.5°	201912.4	256768.8	297803.8	313092.8	297803.8	256768.8	201912.4	152274.4	102535.0	67474.9	41087.0
-15°	128339.6	157367.3	175644.0	181896.3	175644.0	157367.3	128339.6	95683.7	67474.9	44440.7	26789.1
-17.5°	75925.2	91558.2	101284.0	104588.5	101284.0	91558.2	75925.2	55729.4	41087.0	26789.1	18630.4
-20°	42040.2	50012.4	54931.7	56595.6	54931.7	50012.4	42040.2	31309.6	24065.5	17346.1	14313.1



REPORT NUMBER: P601482 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-LS16-1200L-57-70-1S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	23047.8	26170.5	28086.2	28732.2	28086.2	26170.5	23047.8	18812.2	15512.0	13541.6	12035.1
-25°	14797.4	15697.3	16247.1	16432.0	16247.1	15697.3	14797.4	13569.7	12307.2	11624.5	10934.7
-27.5°	11911.7	12219.4	12406.8	12469.7	12406.8	12219.4	11911.7	11490.1	10964.6	10797.4	10606.9
-30°	10830.3	10904.8	10950.1	10965.3	10950.1	10904.8	10830.3	10727.8	10599.0	10581.1	10608.8
-32.5°	10582.0	10571.4	10564.9	10562.7	10564.9	10571.4	10582.0	10596.8	10615.4	10626.2	10626.2
-35°	10626.2	10626.2	10626.2	10626.2	10626.2	10626.2	10626.2	10626.2	10626.2	10606.0	10511.7
-37.5°	10561.7	10597.4	10619.0	10626.2	10619.0	10597.4	10561.7	10512.3	10449.7	10374.5	10206.3
-40°	10256.3	10320.4	10359.1	10372.0	10359.1	10320.4	10256.3	10167.5	10054.8	9919.1	9725.8
-42.5°	9734.2	9811.6	9858.4	9874.0	9858.4	9811.6	9734.2	9626.6	9489.9	9325.1	8893.7
-45°	8722.8	8996.8	9162.0	9217.2	9162.0	8996.8	8722.8	8342.1	7857.4	7272.1	6576.4
-47.5°	6167.3	6454.3	6627.3	6685.1	6627.3	6454.3	6167.3	5768.1	5259.2	4643.9	3925.7
-50°	3725.0	3762.6	3785.2	3792.8	3785.2	3762.6	3725.0	3672.7	3606.0	3525.2	3430.7
-52.5°	3338.3	3361.2	3375.0	3379.6	3375.0	3361.2	3338.3	3306.3	3265.6	3216.2	3158.4
-55°	3063.6	3086.1	3099.7	3104.2	3099.7	3086.1	3063.6	3032.1	2992.0	2943.3	2886.2
-57.5°	2752.0	2782.8	2801.3	2807.5	2801.3	2782.8	2752.0	2709.1	2654.3	2587.7	2509.6
-60°	2312.3	2340.2	2357.0	2362.6	2357.0	2340.2	2312.3	2273.4	2223.6	2163.1	2092.1
-62.5°	1874.4	1898.4	1912.8	1917.6	1912.8	1898.4	1874.4	1840.9	1798.1	1746.1	1685.0
-65°	1457.0	1477.4	1489.7	1493.8	1489.7	1477.4	1457.0	1428.5	1392.1	1347.7	1295.6
-67.5°	1062.8	1078.6	1088.0	1091.2	1088.0	1078.6	1062.8	1040.8	1012.7	978.4	938.2
-70°	721.2	732.5	739.3	741.6	739.3	732.5	721.2	705.4	685.1	660.5	631.5
-72.5°	441.2	449.2	454.0	455.6	454.0	449.2	441.2	430.0	415.7	398.3	377.8
-75°	215.8	219.5	221.8	222.5	221.8	219.5	215.8	210.6	204.0	195.9	186.4
-77.5°	93.6	94.6	95.2	95.4	95.2	94.6	93.6	92.1	90.3	88.1	85.4
-80°	52.6	52.8	53.0	53.0	53.0	52.8	52.6	52.3	52.0	51.5	51.0
-82.5°	42.1	42.3	42.4	42.4	42.4	42.3	42.1	41.9	41.6	41.3	40.9
-85°	31.4	31.6	31.8	31.8	31.8	31.6	31.4	31.2	30.8	30.4	29.8
-87.5°	10.5	10.6	10.6	10.6	10.6	10.6	10.5	10.4	10.3	10.2	10.1
-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: P601482 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200L-57-70-1S

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°	10.0	9.8	9.6	9.4	9.2	8.9	8.7	8.4	8.1	7.8	7.5
85°	29.2	28.6	27.8	27.0	26.1	25.1	24.1	23.0	21.9	20.6	19.4
82.5°	40.5	40.0	39.4	38.8	38.1	37.4	36.6	35.8	34.9	34.0	33.1
80°	50.4	49.7	49.0	48.2	47.3	46.3	45.3	44.2	43.0	41.8	40.5
77.5°	82.4	79.0	75.3	71.1	66.6	61.8	56.6	52.5	51.1	49.5	47.9
75°	175.5	163.2	149.6	134.7	118.4	100.9	91.0	84.4	77.3	70.0	62.2
72.5°	354.3	327.9	298.5	266.3	231.4	206.8	184.9	161.6	137.0	111.1	91.6
70°	598.3	560.9	519.4	474.0	430.4	387.1	340.9	291.9	240.1	202.4	171.4
67.5°	892.1	840.2	782.6	723.6	667.8	607.7	543.6	475.5	413.3	351.9	287.8
65°	1236.0	1168.9	1094.6	1023.5	947.0	864.8	777.2	694.7	614.6	530.5	445.1
62.5°	1615.1	1536.5	1451.8	1361.5	1263.7	1158.7	1052.7	949.9	841.6	730.6	633.7
60°	2010.9	1919.8	1823.7	1718.9	1605.5	1484.4	1361.5	1231.4	1094.6	969.8	840.2
57.5°	2420.3	2320.3	2209.7	2089.0	1958.6	1823.7	1682.3	1533.0	1381.9	1226.0	1067.3
55°	2821.1	2718.5	2597.7	2466.1	2324.2	2172.2	2010.9	1844.4	1674.3	1496.7	1321.1
52.5°	3091.5	3012.0	2924.5	2829.1	2685.9	2521.4	2346.9	2163.1	1970.4	1776.6	1578.0
50°	3342.0	3261.9	3173.7	3075.9	2964.9	2846.4	2677.9	2480.2	2273.4	2058.0	1838.6
47.5°	3695.1	3564.9	3421.8	3304.3	3193.3	3072.8	2938.2	2791.6	2570.3	2340.2	2102.0
45°	5691.5	4706.2	3769.0	3601.8	3422.8	3281.6	3147.9	3000.2	2842.8	2615.6	2362.6
42.5°	8055.8	7124.7	6023.7	4766.7	3739.9	3536.4	3341.3	3192.0	3031.5	2858.2	2615.6
40°	9490.9	9230.5	8173.2	6992.8	5598.5	4077.8	3605.4	3371.5	3206.9	3031.5	2842.8
37.5°	10014.0	9778.2	9473.0	8939.3	7594.8	6104.6	4408.7	3628.6	3371.5	3192.0	3000.2
35°	10405.7	10209.2	9961.0	9638.0	9266.2	7899.2	6274.5	4408.7	3605.4	3341.3	3147.9
32.5°	10618.3	10492.7	10342.4	10058.4	9721.6	9306.9	7899.2	6104.6	4077.8	3536.4	3281.6
30°	10626.2	10626.2	10545.9	10391.3	10091.2	9721.6	9266.2	7594.8	5598.5	3739.9	3422.8
27.5°	10589.1	10625.3	10626.2	10563.8	10391.3	10058.4	9638.0	8939.3	6992.8	4766.7	3601.8
25°	10706.3	10579.0	10620.5	10626.2	10545.9	10342.4	9961.0	9473.0	8173.2	6023.7	3769.0
22.5°	11113.2	10739.9	10579.0	10625.3	10626.2	10492.7	10209.2	9778.2	9230.5	7124.7	4706.2
20°	12174.3	11113.2	10706.3	10589.1	10626.2	10618.3	10405.7	10014.0	9490.9	8055.8	5691.5
17.5°	14313.1	12035.1	10934.7	10606.9	10608.8	10626.2	10511.7	10206.3	9725.8	8893.7	6576.4
15°	17346.1	13541.6	11624.5	10797.4	10581.1	10626.2	10606.0	10374.5	9919.1	9325.1	7272.1
12.5°	24065.5	15512.0	12307.2	10964.6	10599.0	10615.4	10626.2	10449.7	10054.8	9489.9	7857.4
10°	31309.6	18812.2	13569.7	11490.1	10727.8	10596.8	10626.2	10512.3	10167.5	9626.6	8342.1
7.5°	42040.2	23047.8	14797.4	11911.7	10830.3	10582.0	10626.2	10561.7	10256.3	9734.2	8722.8
5°	50012.4	26170.5	15697.3	12219.4	10904.8	10571.4	10626.2	10597.4	10320.4	9811.6	8996.8
2.5°	54931.7	28086.2	16247.1	12406.8	10950.1	10564.9	10626.2	10619.0	10359.1	9858.4	9162.0
0°	56595.6	28732.2	16432.0	12469.7	10965.3	10562.7	10626.2	10626.2	10372.0	9874.0	9217.2
-2.5°	54931.7	28086.2	16247.1	12406.8	10950.1	10564.9	10626.2	10619.0	10359.1	9858.4	9162.0
-5°	50012.4	26170.5	15697.3	12219.4	10904.8	10571.4	10626.2	10597.4	10320.4	9811.6	8996.8
-7.5°	42040.2	23047.8	14797.4	11911.7	10830.3	10582.0	10626.2	10561.7	10256.3	9734.2	8722.8
-10°	31309.6	18812.2	13569.7	11490.1	10727.8	10596.8	10626.2	10512.3	10167.5	9626.6	8342.1
-12.5°	24065.5	15512.0	12307.2	10964.6	10599.0	10615.4	10626.2	10449.7	10054.8	9489.9	7857.4
-15°	17346.1	13541.6	11624.5	10797.4	10581.1	10626.2	10606.0	10374.5	9919.1	9325.1	7272.1
-17.5°	14313.1	12035.1	10934.7	10606.9	10608.8	10626.2	10511.7	10206.3	9725.8	8893.7	6576.4
-20°	12174.3	11113.2	10706.3	10589.1	10626.2	10618.3	10405.7	10014.0	9490.9	8055.8	5691.5



REPORT NUMBER: P601482 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200L-57-70-1S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	11113.2	10739.9	10579.0	10625.3	10626.2	10492.7	10209.2	9778.2	9230.5	7124.7	4706.2
-25°	10706.3	10579.0	10620.5	10626.2	10545.9	10342.4	9961.0	9473.0	8173.2	6023.7	3769.0
-27.5°	10589.1	10625.3	10626.2	10563.8	10391.3	10058.4	9638.0	8939.3	6992.8	4766.7	3601.8
-30°	10626.2	10626.2	10545.9	10391.3	10091.2	9721.6	9266.2	7594.8	5598.5	3739.9	3422.8
-32.5°	10618.3	10492.7	10342.4	10058.4	9721.6	9306.9	7899.2	6104.6	4077.8	3536.4	3281.6
-35°	10405.7	10209.2	9961.0	9638.0	9266.2	7899.2	6274.5	4408.7	3605.4	3341.3	3147.9
-37.5°	10014.0	9778.2	9473.0	8939.3	7594.8	6104.6	4408.7	3628.6	3371.5	3192.0	3000.2
-40°	9490.9	9230.5	8173.2	6992.8	5598.5	4077.8	3605.4	3371.5	3206.9	3031.5	2842.8
-42.5°	8055.8	7124.7	6023.7	4766.7	3739.9	3536.4	3341.3	3192.0	3031.5	2858.2	2615.6
-45°	5691.5	4706.2	3769.0	3601.8	3422.8	3281.6	3147.9	3000.2	2842.8	2615.6	2362.6
-47.5°	3695.1	3564.9	3421.8	3304.3	3193.3	3072.8	2938.2	2791.6	2570.3	2340.2	2102.0
-50°	3342.0	3261.9	3173.7	3075.9	2964.9	2846.4	2677.9	2480.2	2273.4	2058.0	1838.6
-52.5°	3091.5	3012.0	2924.5	2829.1	2685.9	2521.4	2346.9	2163.1	1970.4	1776.6	1578.0
-55°	2821.1	2718.5	2597.7	2466.1	2324.2	2172.2	2010.9	1844.4	1674.3	1496.7	1321.1
-57.5°	2420.3	2320.3	2209.7	2089.0	1958.6	1823.7	1682.3	1533.0	1381.9	1226.0	1067.3
-60°	2010.9	1919.8	1823.7	1718.9	1605.5	1484.4	1361.5	1231.4	1094.6	969.8	840.2
-62.5°	1615.1	1536.5	1451.8	1361.5	1263.7	1158.7	1052.7	949.9	841.6	730.6	633.7
-65°	1236.0	1168.9	1094.6	1023.5	947.0	864.8	777.2	694.7	614.6	530.5	445.1
-67.5°	892.1	840.2	782.6	723.6	667.8	607.7	543.6	475.5	413.3	351.9	287.8
-70°	598.3	560.9	519.4	474.0	430.4	387.1	340.9	291.9	240.1	202.4	171.4
-72.5°	354.3	327.9	298.5	266.3	231.4	206.8	184.9	161.6	137.0	111.1	91.6
-75°	175.5	163.2	149.6	134.7	118.4	100.9	91.0	84.4	77.3	70.0	62.2
-77.5°	82.4	79.0	75.3	71.1	66.6	61.8	56.6	52.5	51.1	49.5	47.9
-80°	50.4	49.7	49.0	48.2	47.3	46.3	45.3	44.2	43.0	41.8	40.5
-82.5°	40.5	40.0	39.4	38.8	38.1	37.4	36.6	35.8	34.9	34.0	33.1
-85°	29.2	28.6	27.8	27.0	26.1	25.1	24.1	23.0	21.9	20.6	19.4
-87.5°	10.0	9.8	9.6	9.4	9.2	8.9	8.7	8.4	8.1	7.8	7.5
-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: P601482 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-LS16-1200L-57-70-1S

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°	7.2	6.8	6.5	6.1	5.7	5.3	4.9	4.5	4.1	3.6	3.2
85°	18.0	16.6	15.2	13.7	12.2	10.6	9.8	9.0	8.1	7.2	6.4
82.5°	32.1	30.2	28.0	25.8	23.5	21.1	18.7	16.2	13.7	11.1	9.5
80°	39.2	37.8	36.3	34.8	33.3	31.6	28.4	25.1	21.7	18.3	14.8
77.5°	46.3	44.5	42.7	40.8	38.9	36.9	34.9	32.9	29.7	25.4	21.0
75°	54.2	51.2	49.0	46.8	44.5	42.1	39.7	37.2	34.7	32.1	27.3
72.5°	82.2	72.4	62.3	52.7	50.0	47.3	44.4	41.6	38.6	35.6	32.6
70°	139.1	105.6	87.2	75.3	63.0	52.3	49.1	45.8	42.5	39.1	35.6
67.5°	221.7	183.9	144.8	104.5	84.6	70.5	56.0	50.1	46.3	42.5	38.6
65°	370.7	293.6	217.8	173.1	127.2	90.3	74.3	57.9	50.1	45.8	41.6
62.5°	533.0	433.8	346.1	255.9	190.2	138.5	92.2	74.3	56.0	49.1	44.4
60°	712.2	598.3	480.9	377.8	276.9	195.9	138.5	90.3	70.5	52.3	47.3
57.5°	921.2	770.2	637.7	507.0	388.4	276.9	190.2	127.2	84.6	63.0	50.0
55°	1139.4	970.2	802.7	650.9	507.0	377.8	255.9	173.1	104.5	75.3	52.7
52.5°	1378.6	1177.5	986.6	802.7	637.7	480.9	346.1	217.8	144.8	87.2	62.3
50°	1619.0	1397.9	1177.5	970.2	770.2	598.3	433.8	293.6	183.9	105.6	72.4
47.5°	1859.4	1619.0	1378.6	1139.4	921.2	712.2	533.0	370.7	221.7	139.1	82.2
45°	2102.0	1838.6	1578.0	1321.1	1067.3	840.2	633.7	445.1	287.8	171.4	91.6
42.5°	2340.2	2058.0	1776.6	1496.7	1226.0	969.8	730.6	530.5	351.9	202.4	111.1
40°	2570.3	2273.4	1970.4	1674.3	1381.9	1094.6	841.6	614.6	413.3	240.1	137.0
37.5°	2791.6	2480.2	2163.1	1844.4	1533.0	1231.4	949.9	694.7	475.5	291.9	161.6
35°	2938.2	2677.9	2346.9	2010.9	1682.3	1361.5	1052.7	777.2	543.6	340.9	184.9
32.5°	3072.8	2846.4	2521.4	2172.2	1823.7	1484.4	1158.7	864.8	607.7	387.1	206.8
30°	3193.3	2964.9	2685.9	2324.2	1958.6	1605.5	1263.7	947.0	667.8	430.4	231.4
27.5°	3304.3	3075.9	2829.1	2466.1	2089.0	1718.9	1361.5	1023.5	723.6	474.0	266.3
25°	3421.8	3173.7	2924.5	2597.7	2209.7	1823.7	1451.8	1094.6	782.6	519.4	298.5
22.5°	3564.9	3261.9	3012.0	2718.5	2320.3	1919.8	1536.5	1168.9	840.2	560.9	327.9
20°	3695.1	3342.0	3091.5	2821.1	2420.3	2010.9	1615.1	1236.0	892.1	598.3	354.3
17.5°	3925.7	3430.7	3158.4	2886.2	2509.6	2092.1	1685.0	1295.6	938.2	631.5	377.8
15°	4643.9	3525.2	3216.2	2943.3	2587.7	2163.1	1746.1	1347.7	978.4	660.5	398.3
12.5°	5259.2	3606.0	3265.6	2992.0	2654.3	2223.6	1798.1	1392.1	1012.7	685.1	415.7
10°	5768.1	3672.7	3306.3	3032.1	2709.1	2273.4	1840.9	1428.5	1040.8	705.4	430.0
7.5°	6167.3	3725.0	3338.3	3063.6	2752.0	2312.3	1874.4	1457.0	1062.8	721.2	441.2
5°	6454.3	3762.6	3361.2	3086.1	2782.8	2340.2	1898.4	1477.4	1078.6	732.5	449.2
2.5°	6627.3	3785.2	3375.0	3099.7	2801.3	2357.0	1912.8	1489.7	1088.0	739.3	454.0
0°	6685.1	3792.8	3379.6	3104.2	2807.5	2362.6	1917.6	1493.8	1091.2	741.6	455.6
-2.5°	6627.3	3785.2	3375.0	3099.7	2801.3	2357.0	1912.8	1489.7	1088.0	739.3	454.0
-5°	6454.3	3762.6	3361.2	3086.1	2782.8	2340.2	1898.4	1477.4	1078.6	732.5	449.2
-7.5°	6167.3	3725.0	3338.3	3063.6	2752.0	2312.3	1874.4	1457.0	1062.8	721.2	441.2
-10°	5768.1	3672.7	3306.3	3032.1	2709.1	2273.4	1840.9	1428.5	1040.8	705.4	430.0
-12.5°	5259.2	3606.0	3265.6	2992.0	2654.3	2223.6	1798.1	1392.1	1012.7	685.1	415.7
-15°	4643.9	3525.2	3216.2	2943.3	2587.7	2163.1	1746.1	1347.7	978.4	660.5	398.3
-17.5°	3925.7	3430.7	3158.4	2886.2	2509.6	2092.1	1685.0	1295.6	938.2	631.5	377.8
-20°	3695.1	3342.0	3091.5	2821.1	2420.3	2010.9	1615.1	1236.0	892.1	598.3	354.3

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

Scaled Data Report



REPORT NUMBER: P601482 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-LS16-1200L-57-70-1S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	3564.9	3261.9	3012.0	2718.5	2320.3	1919.8	1536.5	1168.9	840.2	560.9	327.9
-25°	3421.8	3173.7	2924.5	2597.7	2209.7	1823.7	1451.8	1094.6	782.6	519.4	298.5
-27.5°	3304.3	3075.9	2829.1	2466.1	2089.0	1718.9	1361.5	1023.5	723.6	474.0	266.3
-30°	3193.3	2964.9	2685.9	2324.2	1958.6	1605.5	1263.7	947.0	667.8	430.4	231.4
-32.5°	3072.8	2846.4	2521.4	2172.2	1823.7	1484.4	1158.7	864.8	607.7	387.1	206.8
-35°	2938.2	2677.9	2346.9	2010.9	1682.3	1361.5	1052.7	777.2	543.6	340.9	184.9
-37.5°	2791.6	2480.2	2163.1	1844.4	1533.0	1231.4	949.9	694.7	475.5	291.9	161.6
-40°	2570.3	2273.4	1970.4	1674.3	1381.9	1094.6	841.6	614.6	413.3	240.1	137.0
-42.5°	2340.2	2058.0	1776.6	1496.7	1226.0	969.8	730.6	530.5	351.9	202.4	111.1
-45°	2102.0	1838.6	1578.0	1321.1	1067.3	840.2	633.7	445.1	287.8	171.4	91.6
-47.5°	1859.4	1619.0	1378.6	1139.4	921.2	712.2	533.0	370.7	221.7	139.1	82.2
-50°	1619.0	1397.9	1177.5	970.2	770.2	598.3	433.8	293.6	183.9	105.6	72.4
-52.5°	1378.6	1177.5	986.6	802.7	637.7	480.9	346.1	217.8	144.8	87.2	62.3
-55°	1139.4	970.2	802.7	650.9	507.0	377.8	255.9	173.1	104.5	75.3	52.7
-57.5°	921.2	770.2	637.7	507.0	388.4	276.9	190.2	127.2	84.6	63.0	50.0
-60°	712.2	598.3	480.9	377.8	276.9	195.9	138.5	90.3	70.5	52.3	47.3
-62.5°	533.0	433.8	346.1	255.9	190.2	138.5	92.2	74.3	56.0	49.1	44.4
-65°	370.7	293.6	217.8	173.1	127.2	90.3	74.3	57.9	50.1	45.8	41.6
-67.5°	221.7	183.9	144.8	104.5	84.6	70.5	56.0	50.1	46.3	42.5	38.6
-70°	139.1	105.6	87.2	75.3	63.0	52.3	49.1	45.8	42.5	39.1	35.6
-72.5°	82.2	72.4	62.3	52.7	50.0	47.3	44.4	41.6	38.6	35.6	32.6
-75°	54.2	51.2	49.0	46.8	44.5	42.1	39.7	37.2	34.7	32.1	27.3
-77.5°	46.3	44.5	42.7	40.8	38.9	36.9	34.9	32.9	29.7	25.4	21.0
-80°	39.2	37.8	36.3	34.8	33.3	31.6	28.4	25.1	21.7	18.3	14.8
-82.5°	32.1	30.2	28.0	25.8	23.5	21.1	18.7	16.2	13.7	11.1	9.5
-85°	18.0	16.6	15.2	13.7	12.2	10.6	9.8	9.0	8.1	7.2	6.4
-87.5°	7.2	6.8	6.5	6.1	5.7	5.3	4.9	4.5	4.1	3.6	3.2
-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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Scaled Data Report



REPORT NUMBER: P601482 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-LS16-1200L-57-70-1S

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°	2.7	2.3	1.8	1.4	0.9	0.5	0.0
85°	5.5	4.6	3.7	2.8	1.8	0.9	0.0
82.5°	8.2	6.9	5.5	4.1	2.8	1.4	0.0
80°	11.2	9.1	7.3	5.5	3.7	1.8	0.0
77.5°	16.6	12.2	9.1	6.9	4.6	2.3	0.0
75°	22.0	16.6	11.2	8.2	5.5	2.7	0.0
72.5°	27.3	21.0	14.8	9.5	6.4	3.2	0.0
70°	32.1	25.4	18.3	11.1	7.2	3.6	0.0
67.5°	34.7	29.7	21.7	13.7	8.1	4.1	0.0
65°	37.2	32.9	25.1	16.2	9.0	4.5	0.0
62.5°	39.7	34.9	28.4	18.7	9.8	4.9	0.0
60°	42.1	36.9	31.6	21.1	10.6	5.3	0.0
57.5°	44.5	38.9	33.3	23.5	12.2	5.7	0.0
55°	46.8	40.8	34.8	25.8	13.7	6.1	0.0
52.5°	49.0	42.7	36.3	28.0	15.2	6.5	0.0
50°	51.2	44.5	37.8	30.2	16.6	6.8	0.0
47.5°	54.2	46.3	39.2	32.1	18.0	7.2	0.0
45°	62.2	47.9	40.5	33.1	19.4	7.5	0.0
42.5°	70.0	49.5	41.8	34.0	20.6	7.8	0.0
40°	77.3	51.1	43.0	34.9	21.9	8.1	0.0
37.5°	84.4	52.5	44.2	35.8	23.0	8.4	0.0
35°	91.0	56.6	45.3	36.6	24.1	8.7	0.0
32.5°	100.9	61.8	46.3	37.4	25.1	8.9	0.0
30°	118.4	66.6	47.3	38.1	26.1	9.2	0.0
27.5°	134.7	71.1	48.2	38.8	27.0	9.4	0.0
25°	149.6	75.3	49.0	39.4	27.8	9.6	0.0
22.5°	163.2	79.0	49.7	40.0	28.6	9.8	0.0
20°	175.5	82.4	50.4	40.5	29.2	10.0	0.0
17.5°	186.4	85.4	51.0	40.9	29.8	10.1	0.0
15°	195.9	88.1	51.5	41.3	30.4	10.2	0.0
12.5°	204.0	90.3	52.0	41.6	30.8	10.3	0.0
10°	210.6	92.1	52.3	41.9	31.2	10.4	0.0
7.5°	215.8	93.6	52.6	42.1	31.4	10.5	0.0
5°	219.5	94.6	52.8	42.3	31.6	10.6	0.0
2.5°	221.8	95.2	53.0	42.4	31.8	10.6	0.0
0°	222.5	95.4	53.0	42.4	31.8	10.6	0.0
-2.5°	221.8	95.2	53.0	42.4	31.8	10.6	0.0
-5°	219.5	94.6	52.8	42.3	31.6	10.6	0.0
-7.5°	215.8	93.6	52.6	42.1	31.4	10.5	0.0
-10°	210.6	92.1	52.3	41.9	31.2	10.4	0.0
-12.5°	204.0	90.3	52.0	41.6	30.8	10.3	0.0
-15°	195.9	88.1	51.5	41.3	30.4	10.2	0.0
-17.5°	186.4	85.4	51.0	40.9	29.8	10.1	0.0
-20°	175.5	82.4	50.4	40.5	29.2	10.0	0.0

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REPORT NUMBER: P601482 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-LS16-1200L-57-70-1S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	163.2	79.0	49.7	40.0	28.6	9.8	0.0
-25°	149.6	75.3	49.0	39.4	27.8	9.6	0.0
-27.5°	134.7	71.1	48.2	38.8	27.0	9.4	0.0
-30°	118.4	66.6	47.3	38.1	26.1	9.2	0.0
-32.5°	100.9	61.8	46.3	37.4	25.1	8.9	0.0
-35°	91.0	56.6	45.3	36.6	24.1	8.7	0.0
-37.5°	84.4	52.5	44.2	35.8	23.0	8.4	0.0
-40°	77.3	51.1	43.0	34.9	21.9	8.1	0.0
-42.5°	70.0	49.5	41.8	34.0	20.6	7.8	0.0
-45°	62.2	47.9	40.5	33.1	19.4	7.5	0.0
-47.5°	54.2	46.3	39.2	32.1	18.0	7.2	0.0
-50°	51.2	44.5	37.8	30.2	16.6	6.8	0.0
-52.5°	49.0	42.7	36.3	28.0	15.2	6.5	0.0
-55°	46.8	40.8	34.8	25.8	13.7	6.1	0.0
-57.5°	44.5	38.9	33.3	23.5	12.2	5.7	0.0
-60°	42.1	36.9	31.6	21.1	10.6	5.3	0.0
-62.5°	39.7	34.9	28.4	18.7	9.8	4.9	0.0
-65°	37.2	32.9	25.1	16.2	9.0	4.5	0.0
-67.5°	34.7	29.7	21.7	13.7	8.1	4.1	0.0
-70°	32.1	25.4	18.3	11.1	7.2	3.6	0.0
-72.5°	27.3	21.0	14.8	9.5	6.4	3.2	0.0
-75°	22.0	16.6	11.2	8.2	5.5	2.7	0.0
-77.5°	16.6	12.2	9.1	6.9	4.6	2.3	0.0
-80°	11.2	9.1	7.3	5.5	3.7	1.8	0.0
-82.5°	8.2	6.9	5.5	4.1	2.8	1.4	0.0
-85°	5.5	4.6	3.7	2.8	1.8	0.9	0.0
-87.5°	2.7	2.3	1.8	1.4	0.9	0.5	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)