

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: P601487 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS16-1200R-57-80-1S**

Issue Date: 8/3/2022

Test Information

Test Method: LM-79-08
Report Number: P601487 (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 (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS16-1200R-57-80-1S
Description: EPHESUS LUMASPORT 16 LUMINAIRE
(16) 5700K, 80 CRI LEDS AND 1S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

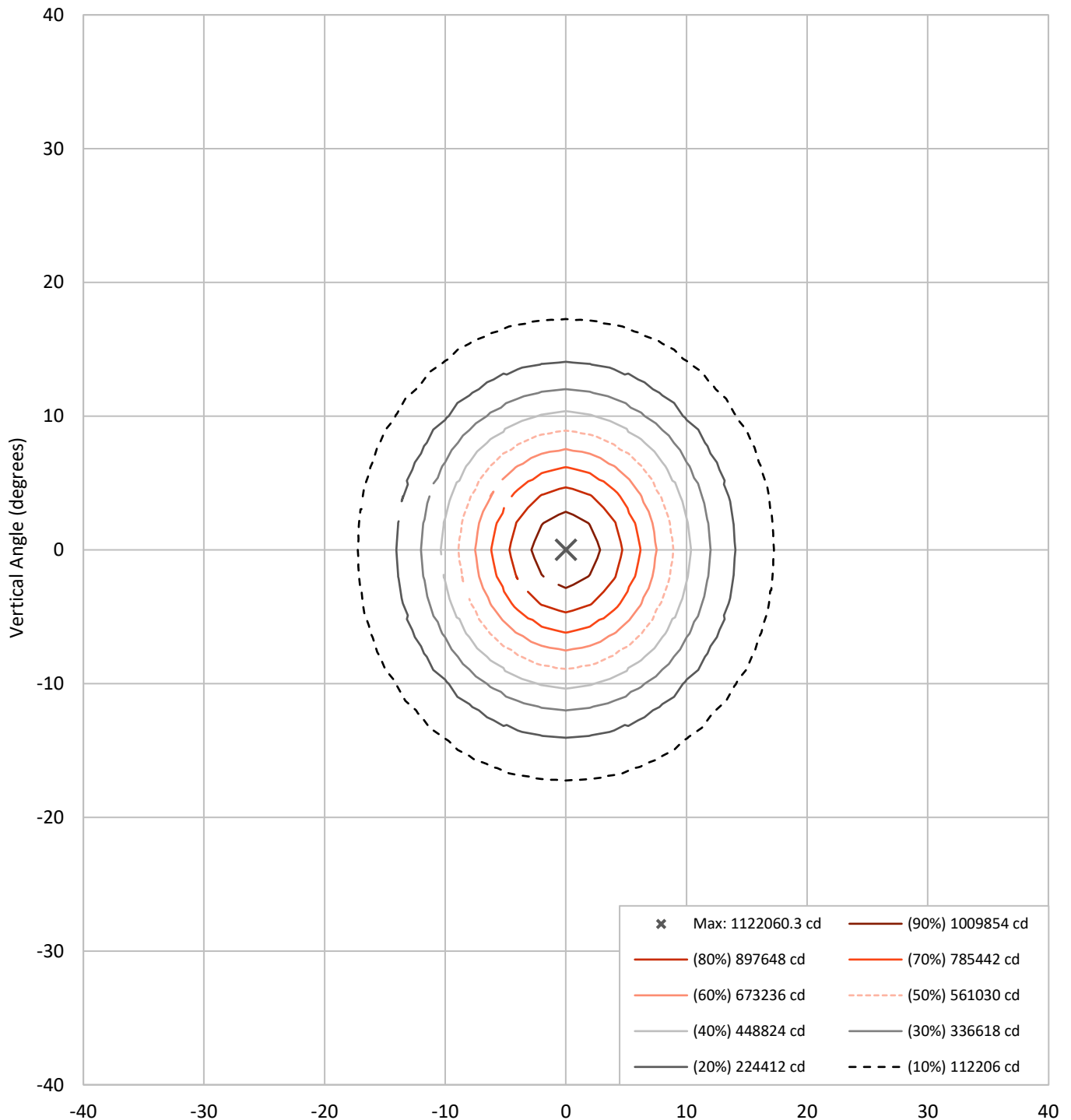
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	149916.5 lumens	Max Intensity:	1122060.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	112.2 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:	50517.9 lumens	Field Lumens:	114601.8 lumens
Beam Efficiency:	33.7%	Field Efficiency:	76.4%

Input Watts (W): 1335.575
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





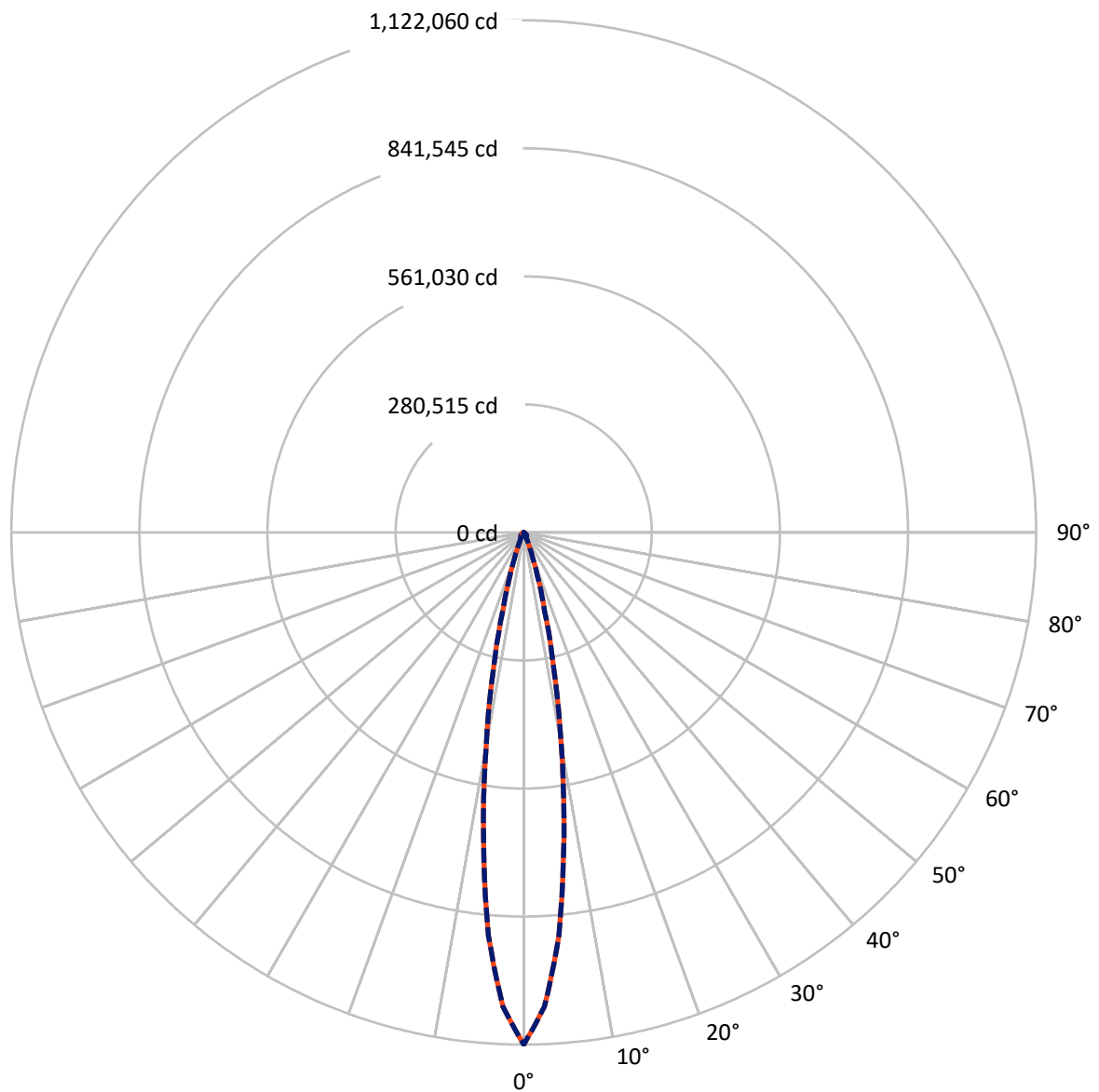
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Lumen Table

90																
80	0.2	1.7		5.8		14.1		18.5		14.1		5.8		1.7		0.2
70																
60	0.8	0.9	3.4	9.9	19.5	30.0	38.8	43.7	43.7	38.8	30.0	19.5	9.9	3.4	0.9	0.8
50		2.6	11.5	27.8	48.6	68.1	82.2	89.8	89.8	82.2	68.1	48.6	27.8	11.5	2.6	
40	1.9	6.1	22.7	49.0	76.7	127.9	196.8	235.3	235.3	196.8	127.9	76.7	49.0	22.7	6.1	1.9
30		10.4	34.3	66.3	151.5	258.1	296.8	310.7	310.7	296.8	258.1	151.5	66.3	34.3	10.4	
20	4.1	14.4	43.5	100.9	233.6	284.2	367.3	602.4	602.4	367.3	284.2	233.6	100.9	43.5	14.4	4.1
10		17.5	49.2	146.0	251.9	345.5	1554.6	5142.7	5142.7	1554.6	345.5	251.9	146.0	49.2	17.5	
0	5.1	19.1	52.1	168.9	255.5	553.3	5016.3	19900.3	19900.3	5016.3	553.3	255.5	168.9	52.1	19.1	5.1
-10		19.1	52.1	168.9	255.5	553.3	5016.3	19900.3	19900.3	5016.3	553.3	255.5	168.9	52.1	19.1	
-20	4.1	17.5	49.2	146.0	251.9	345.5	1554.6	5142.7	5142.7	1554.6	345.5	251.9	146.0	49.2	17.5	4.1
-30		14.4	43.5	100.9	233.6	284.2	367.3	602.4	602.4	367.3	284.2	233.6	100.9	43.5	14.4	
-40	1.9	10.4	34.3	66.3	151.5	258.1	296.8	310.7	310.7	296.8	258.1	151.5	66.3	34.3	10.4	1.9
-50		6.1	22.7	49.0	76.7	127.9	196.8	235.3	235.3	196.8	127.9	76.7	49.0	22.7	6.1	
-60	0.8	2.6	11.5	27.8	48.6	68.1	82.2	89.8	89.8	82.2	68.1	48.6	27.8	11.5	2.6	0.8
-70		0.9	3.4	9.9	19.5	30.0	38.8	43.7	43.7	38.8	30.0	19.5	9.9	3.4	0.9	
-80																
-90	0.2	1.7		5.8		14.1		18.5		14.1		5.8		1.7		0.2

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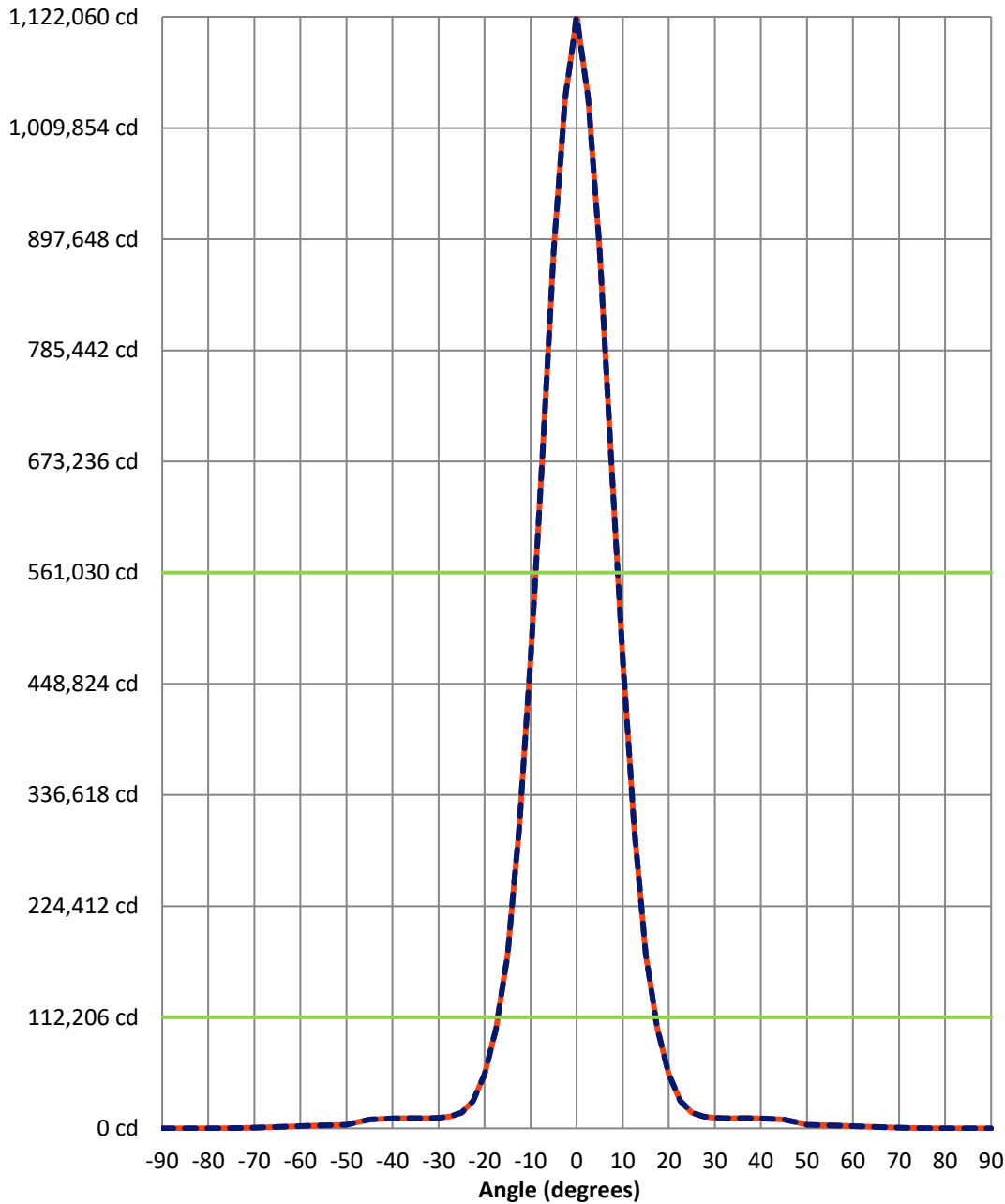
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 17.8°
 V Angle: 17.8°
 Lumens: 50517.9
 Efficiency: 33.7%

Field:
 H Angle: 34.3°
 V Angle: 34.3°
 Lumens: 114601.8
 Efficiency: 76.4%

Spill:
 Lumens: 35314.7
 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	0.4	0.9	1.3	1.8	2.2	2.6	3.1	3.5	3.9	4.3
85°	0.0	0.9	1.8	2.7	3.5	4.4	5.3	6.1	7.0	7.8	8.6
82.5°	0.0	1.3	2.7	4.0	5.3	6.6	7.9	9.2	10.7	13.2	15.6
80°	0.0	1.8	3.5	5.3	7.0	8.8	10.8	14.2	17.6	20.9	24.2
77.5°	0.0	2.2	4.4	6.6	8.8	11.7	16.0	20.3	24.5	28.7	31.7
75°	0.0	2.6	5.3	7.9	10.8	16.0	21.2	26.3	31.0	33.5	36.0
72.5°	0.0	3.1	6.1	9.2	14.2	20.3	26.3	31.5	34.4	37.3	40.2
70°	0.0	3.5	7.0	10.7	17.6	24.5	31.0	34.4	37.8	41.1	44.3
67.5°	0.0	3.9	7.8	13.2	20.9	28.7	33.5	37.3	41.1	44.8	48.4
65°	0.0	4.3	8.6	15.6	24.2	31.7	36.0	40.2	44.3	48.4	55.9
62.5°	0.0	4.7	9.4	18.0	27.4	33.7	38.4	43.0	47.5	54.1	71.8
60°	0.0	5.1	10.2	20.4	30.5	35.7	40.7	45.7	50.6	68.1	87.3
57.5°	0.0	5.5	11.7	22.7	32.2	37.6	43.0	48.3	60.9	81.8	122.9
55°	0.0	5.8	13.2	24.9	33.7	39.5	45.2	50.9	72.7	101.0	167.4
52.5°	0.0	6.2	14.6	27.1	35.1	41.3	47.4	60.2	84.3	140.0	210.7
50°	0.0	6.6	16.0	29.2	36.5	43.0	49.5	70.0	102.0	177.8	284.0
47.5°	0.0	6.9	17.4	30.9	37.9	44.7	52.4	79.4	134.5	214.4	358.6
45°	0.0	7.2	18.7	31.9	39.2	46.3	60.1	88.5	165.8	278.3	430.6
42.5°	0.0	7.5	19.9	32.9	40.4	47.9	67.6	107.4	195.8	340.4	513.2
40°	0.0	7.8	21.1	33.7	41.6	49.3	74.7	132.4	232.2	399.8	594.5
37.5°	0.0	8.1	22.2	34.6	42.7	50.7	81.5	156.3	282.3	460.0	672.1
35°	0.0	8.4	23.3	35.4	43.8	54.7	87.9	178.8	329.8	525.8	751.9
32.5°	0.0	8.6	24.3	36.1	44.8	59.7	97.5	200.0	374.5	587.9	836.8
30°	0.0	8.8	25.2	36.8	45.7	64.4	114.5	223.8	416.3	646.0	916.3
27.5°	0.0	9.0	26.1	37.5	46.6	68.7	130.2	257.6	458.5	700.1	990.3
25°	0.0	9.2	26.9	38.1	47.3	72.7	144.7	288.7	502.5	757.2	1059.1
22.5°	0.0	9.4	27.6	38.6	48.1	76.4	157.9	317.1	542.6	812.9	1130.9
20°	0.0	9.6	28.2	39.1	48.7	79.7	169.7	342.7	578.8	863.1	1195.8
17.5°	0.0	9.7	28.8	39.6	49.3	82.6	180.3	365.5	611.0	907.7	1253.5
15°	0.0	9.9	29.3	39.9	49.8	85.1	189.5	385.3	639.0	946.7	1303.9
12.5°	0.0	10.0	29.7	40.3	50.2	87.3	197.3	402.1	662.9	979.8	1346.8
10°	0.0	10.0	30.1	40.5	50.6	89.0	203.7	416.0	682.5	1007.1	1382.1
7.5°	0.0	10.1	30.3	40.7	50.8	90.4	208.7	426.8	697.8	1028.3	1409.6
5°	0.0	10.2	30.5	40.9	51.0	91.4	212.3	434.5	708.7	1043.6	1429.4
2.5°	0.0	10.2	30.7	41.0	51.2	92.0	214.5	439.1	715.3	1052.7	1441.2
0°	0.0	10.2	30.7	41.0	51.2	92.0	214.5	439.1	715.3	1052.7	1441.2
-2.5°	0.0	10.2	30.7	41.0	51.2	92.0	214.5	439.1	715.3	1052.7	1441.2
-5°	0.0	10.2	30.5	40.9	51.0	91.4	212.3	434.5	708.7	1043.6	1429.4
-7.5°	0.0	10.1	30.3	40.7	50.8	90.4	208.7	426.8	697.8	1028.3	1409.6
-10°	0.0	10.0	30.1	40.5	50.6	89.0	203.7	416.0	682.5	1007.1	1382.1
-12.5°	0.0	10.0	29.7	40.3	50.2	87.3	197.3	402.1	662.9	979.8	1346.8
-15°	0.0	9.9	29.3	39.9	49.8	85.1	189.5	385.3	639.0	946.7	1303.9
-17.5°	0.0	9.7	28.8	39.6	49.3	82.6	180.3	365.5	611.0	907.7	1253.5
-20°	0.0	9.6	28.2	39.1	48.7	79.7	169.7	342.7	578.8	863.1	1195.8



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 CATALOG NUMBER: EPH-LS16-1200R-57-80-1S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	9.4	27.6	38.6	48.1	76.4	157.9	317.1	542.6	812.9	1130.9
-25°	0.0	9.2	26.9	38.1	47.3	72.7	144.7	288.7	502.5	757.2	1059.1
-27.5°	0.0	9.0	26.1	37.5	46.6	68.7	130.2	257.6	458.5	700.1	990.3
-30°	0.0	8.8	25.2	36.8	45.7	64.4	114.5	223.8	416.3	646.0	916.3
-32.5°	0.0	8.6	24.3	36.1	44.8	59.7	97.5	200.0	374.5	587.9	836.8
-35°	0.0	8.4	23.3	35.4	43.8	54.7	87.9	178.8	329.8	525.8	751.9
-37.5°	0.0	8.1	22.2	34.6	42.7	50.7	81.5	156.3	282.3	460.0	672.1
-40°	0.0	7.8	21.1	33.7	41.6	49.3	74.7	132.4	232.2	399.8	594.5
-42.5°	0.0	7.5	19.9	32.9	40.4	47.9	67.6	107.4	195.8	340.4	513.2
-45°	0.0	7.2	18.7	31.9	39.2	46.3	60.1	88.5	165.8	278.3	430.6
-47.5°	0.0	6.9	17.4	30.9	37.9	44.7	52.4	79.4	134.5	214.4	358.6
-50°	0.0	6.6	16.0	29.2	36.5	43.0	49.5	70.0	102.0	177.8	284.0
-52.5°	0.0	6.2	14.6	27.1	35.1	41.3	47.4	60.2	84.3	140.0	210.7
-55°	0.0	5.8	13.2	24.9	33.7	39.5	45.2	50.9	72.7	101.0	167.4
-57.5°	0.0	5.5	11.7	22.7	32.2	37.6	43.0	48.3	60.9	81.8	122.9
-60°	0.0	5.1	10.2	20.4	30.5	35.7	40.7	45.7	50.6	68.1	87.3
-62.5°	0.0	4.7	9.4	18.0	27.4	33.7	38.4	43.0	47.5	54.1	71.8
-65°	0.0	4.3	8.6	15.6	24.2	31.7	36.0	40.2	44.3	48.4	55.9
-67.5°	0.0	3.9	7.8	13.2	20.9	28.7	33.5	37.3	41.1	44.8	48.4
-70°	0.0	3.5	7.0	10.7	17.6	24.5	31.0	34.4	37.8	41.1	44.3
-72.5°	0.0	3.1	6.1	9.2	14.2	20.3	26.3	31.5	34.4	37.3	40.2
-75°	0.0	2.6	5.3	7.9	10.8	16.0	21.2	26.3	31.0	33.5	36.0
-77.5°	0.0	2.2	4.4	6.6	8.8	11.7	16.0	20.3	24.5	28.7	31.7
-80°	0.0	1.8	3.5	5.3	7.0	8.8	10.8	14.2	17.6	20.9	24.2
-82.5°	0.0	1.3	2.7	4.0	5.3	6.6	7.9	9.2	10.7	13.2	15.6
-85°	0.0	0.9	1.8	2.7	3.5	4.4	5.3	6.1	7.0	7.8	8.6
-87.5°	0.0	0.4	0.9	1.3	1.8	2.2	2.6	3.1	3.5	3.9	4.3
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: EPH-LS16-1200R-57-80-1S

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°	4.7	5.1	5.5	5.8	6.2	6.6	6.9	7.2	7.5	7.8	8.1
85°	9.4	10.2	11.7	13.2	14.6	16.0	17.4	18.7	19.9	21.1	22.2
82.5°	18.0	20.4	22.7	24.9	27.1	29.2	30.9	31.9	32.9	33.7	34.6
80°	27.4	30.5	32.2	33.7	35.1	36.5	37.9	39.2	40.4	41.6	42.7
77.5°	33.7	35.7	37.6	39.5	41.3	43.0	44.7	46.3	47.9	49.3	50.7
75°	38.4	40.7	43.0	45.2	47.4	49.5	52.4	60.1	67.6	74.7	81.5
72.5°	43.0	45.7	48.3	50.9	60.2	70.0	79.4	88.5	107.4	132.4	156.3
70°	47.5	50.6	60.9	72.7	84.3	102.0	134.5	165.8	195.8	232.2	282.3
67.5°	54.1	68.1	81.8	101.0	140.0	177.8	214.4	278.3	340.4	399.8	460.0
65°	71.8	87.3	122.9	167.4	210.7	284.0	358.6	430.6	513.2	594.5	672.1
62.5°	89.1	133.9	184.0	247.5	334.8	419.6	515.7	613.1	706.8	814.3	919.1
60°	133.9	189.5	267.9	365.5	465.2	578.8	689.0	812.9	938.3	1059.1	1191.4
57.5°	184.0	267.9	375.7	490.5	617.0	745.2	891.3	1032.7	1186.2	1337.0	1483.1
55°	247.5	365.5	490.5	629.8	776.6	938.7	1102.4	1278.1	1448.0	1619.8	1784.4
52.5°	334.8	465.2	617.0	776.6	954.6	1139.2	1333.8	1526.7	1718.8	1906.3	2092.7
50°	419.6	578.8	745.2	938.7	1139.2	1352.4	1566.3	1778.8	1991.0	2199.5	2399.6
47.5°	515.7	689.0	891.3	1102.4	1333.8	1566.3	1798.9	2033.7	2264.1	2486.7	2700.8
45°	613.1	812.9	1032.7	1278.1	1526.7	1778.8	2033.7	2285.8	2530.6	2750.4	2902.6
42.5°	706.8	938.3	1186.2	1448.0	1718.8	1991.0	2264.1	2530.6	2765.3	2932.9	3088.2
40°	814.3	1059.1	1337.0	1619.8	1906.3	2199.5	2486.7	2750.4	2932.9	3102.5	3261.9
37.5°	919.1	1191.4	1483.1	1784.4	2092.7	2399.6	2700.8	2902.6	3088.2	3261.9	3510.6
35°	1018.6	1317.2	1627.6	1945.5	2270.6	2590.9	2842.6	3045.4	3232.7	3488.2	4265.3
32.5°	1121.1	1436.1	1764.4	2101.6	2439.4	2753.9	2972.8	3174.8	3421.4	3945.2	5906.1
30°	1222.6	1553.3	1894.9	2248.6	2598.6	2868.4	3089.4	3311.5	3618.3	5416.4	7347.8
27.5°	1317.2	1663.0	2021.1	2386.0	2737.1	2975.8	3196.9	3484.7	4611.7	6765.4	8648.7
25°	1404.6	1764.4	2137.8	2513.3	2829.3	3070.5	3310.6	3646.4	5827.8	7907.4	9165.0
22.5°	1486.5	1857.3	2244.8	2630.1	2914.1	3155.8	3448.9	4553.1	6893.0	8930.4	9460.3
20°	1562.5	1945.5	2341.7	2729.4	2990.9	3233.3	3574.9	5506.4	7793.8	9182.3	9688.4
17.5°	1630.2	2024.1	2428.0	2792.4	3055.6	3319.2	3798.0	6362.5	8604.5	9409.6	9874.5
15°	1689.3	2092.7	2503.5	2847.5	3111.6	3410.6	4492.9	7035.6	9021.9	9596.6	10037.2
12.5°	1739.6	2151.3	2567.9	2894.6	3159.4	3488.7	5088.2	7601.9	9181.4	9727.9	10110.0
10°	1781.0	2199.5	2621.0	2933.5	3198.8	3553.3	5580.5	8070.9	9313.7	9837.0	10170.6
7.5°	1813.4	2237.1	2662.5	2963.9	3229.7	3603.9	5966.8	8439.2	9417.7	9922.9	10218.4
5°	1836.6	2264.1	2692.3	2985.7	3251.9	3640.3	6244.4	8704.3	9492.7	9984.9	10252.9
2.5°	1850.5	2280.4	2710.2	2998.8	3265.2	3662.2	6411.8	8864.1	9537.9	10022.3	10273.8
0°	1855.2	2285.8	2716.2	3003.2	3269.7	3669.5	6467.7	8917.5	9553.0	10034.8	10280.8
-2.5°	1850.5	2280.4	2710.2	2998.8	3265.2	3662.2	6411.8	8864.1	9537.9	10022.3	10273.8
-5°	1836.6	2264.1	2692.3	2985.7	3251.9	3640.3	6244.4	8704.3	9492.7	9984.9	10252.9
-7.5°	1813.4	2237.1	2662.5	2963.9	3229.7	3603.9	5966.8	8439.2	9417.7	9922.9	10218.4
-10°	1781.0	2199.5	2621.0	2933.5	3198.8	3553.3	5580.5	8070.9	9313.7	9837.0	10170.6
-12.5°	1739.6	2151.3	2567.9	2894.6	3159.4	3488.7	5088.2	7601.9	9181.4	9727.9	10110.0
-15°	1689.3	2092.7	2503.5	2847.5	3111.6	3410.6	4492.9	7035.6	9021.9	9596.6	10037.2
-17.5°	1630.2	2024.1	2428.0	2792.4	3055.6	3319.2	3798.0	6362.5	8604.5	9409.6	9874.5
-20°	1562.5	1945.5	2341.7	2729.4	2990.9	3233.3	3574.9	5506.4	7793.8	9182.3	9688.4



REPORT NUMBER: P601487 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200R-57-80-1S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1486.5	1857.3	2244.8	2630.1	2914.1	3155.8	3448.9	4553.1	6893.0	8930.4	9460.3
-25°	1404.6	1764.4	2137.8	2513.3	2829.3	3070.5	3310.6	3646.4	5827.8	7907.4	9165.0
-27.5°	1317.2	1663.0	2021.1	2386.0	2737.1	2975.8	3196.9	3484.7	4611.7	6765.4	8648.7
-30°	1222.6	1553.3	1894.9	2248.6	2598.6	2868.4	3089.4	3311.5	3618.3	5416.4	7347.8
-32.5°	1121.1	1436.1	1764.4	2101.6	2439.4	2753.9	2972.8	3174.8	3421.4	3945.2	5906.1
-35°	1018.6	1317.2	1627.6	1945.5	2270.6	2590.9	2842.6	3045.4	3232.7	3488.2	4265.3
-37.5°	919.1	1191.4	1483.1	1784.4	2092.7	2399.6	2700.8	2902.6	3088.2	3261.9	3510.6
-40°	814.3	1059.1	1337.0	1619.8	1906.3	2199.5	2486.7	2750.4	2932.9	3102.5	3261.9
-42.5°	706.8	938.3	1186.2	1448.0	1718.8	1991.0	2264.1	2530.6	2765.3	2932.9	3088.2
-45°	613.1	812.9	1032.7	1278.1	1526.7	1778.8	2033.7	2285.8	2530.6	2750.4	2902.6
-47.5°	515.7	689.0	891.3	1102.4	1333.8	1566.3	1798.9	2033.7	2264.1	2486.7	2700.8
-50°	419.6	578.8	745.2	938.7	1139.2	1352.4	1566.3	1778.8	1991.0	2199.5	2399.6
-52.5°	334.8	465.2	617.0	776.6	954.6	1139.2	1333.8	1526.7	1718.8	1906.3	2092.7
-55°	247.5	365.5	490.5	629.8	776.6	938.7	1102.4	1278.1	1448.0	1619.8	1784.4
-57.5°	184.0	267.9	375.7	490.5	617.0	745.2	891.3	1032.7	1186.2	1337.0	1483.1
-60°	133.9	189.5	267.9	365.5	465.2	578.8	689.0	812.9	938.3	1059.1	1191.4
-62.5°	89.1	133.9	184.0	247.5	334.8	419.6	515.7	613.1	706.8	814.3	919.1
-65°	71.8	87.3	122.9	167.4	210.7	284.0	358.6	430.6	513.2	594.5	672.1
-67.5°	54.1	68.1	81.8	101.0	140.0	177.8	214.4	278.3	340.4	399.8	460.0
-70°	47.5	50.6	60.9	72.7	84.3	102.0	134.5	165.8	195.8	232.2	282.3
-72.5°	43.0	45.7	48.3	50.9	60.2	70.0	79.4	88.5	107.4	132.4	156.3
-75°	38.4	40.7	43.0	45.2	47.4	49.5	52.4	60.1	67.6	74.7	81.5
-77.5°	33.7	35.7	37.6	39.5	41.3	43.0	44.7	46.3	47.9	49.3	50.7
-80°	27.4	30.5	32.2	33.7	35.1	36.5	37.9	39.2	40.4	41.6	42.7
-82.5°	18.0	20.4	22.7	24.9	27.1	29.2	30.9	31.9	32.9	33.7	34.6
-85°	9.4	10.2	11.7	13.2	14.6	16.0	17.4	18.7	19.9	21.1	22.2
-87.5°	4.7	5.1	5.5	5.8	6.2	6.6	6.9	7.2	7.5	7.8	8.1
-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: P601487 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.4	8.6	8.8	9.0	9.2	9.4	9.6	9.7	9.9	10.0	10.0
85°	23.3	24.3	25.2	26.1	26.9	27.6	28.2	28.8	29.3	29.7	30.1
82.5°	35.4	36.1	36.8	37.5	38.1	38.6	39.1	39.6	39.9	40.3	40.5
80°	43.8	44.8	45.7	46.6	47.3	48.1	48.7	49.3	49.8	50.2	50.6
77.5°	54.7	59.7	64.4	68.7	72.7	76.4	79.7	82.6	85.1	87.3	89.0
75°	87.9	97.5	114.5	130.2	144.7	157.9	169.7	180.3	189.5	197.3	203.7
72.5°	178.8	200.0	223.8	257.6	288.7	317.1	342.7	365.5	385.3	402.1	416.0
70°	329.8	374.5	416.3	458.5	502.5	542.6	578.8	611.0	639.0	662.9	682.5
67.5°	525.8	587.9	646.0	700.1	757.2	812.9	863.1	907.7	946.7	979.8	1007.1
65°	751.9	836.8	916.3	990.3	1059.1	1130.9	1195.8	1253.5	1303.9	1346.8	1382.1
62.5°	1018.6	1121.1	1222.6	1317.2	1404.6	1486.5	1562.5	1630.2	1689.3	1739.6	1781.0
60°	1317.2	1436.1	1553.3	1663.0	1764.4	1857.3	1945.5	2024.1	2092.7	2151.3	2199.5
57.5°	1627.6	1764.4	1894.9	2021.1	2137.8	2244.8	2341.7	2428.0	2503.5	2567.9	2621.0
55°	1945.5	2101.6	2248.6	2386.0	2513.3	2630.1	2729.4	2792.4	2847.5	2894.6	2933.5
52.5°	2270.6	2439.4	2598.6	2737.1	2829.3	2914.1	2990.9	3055.6	3111.6	3159.4	3198.8
50°	2590.9	2753.9	2868.4	2975.8	3070.5	3155.8	3233.3	3319.2	3410.6	3488.7	3553.3
47.5°	2842.6	2972.8	3089.4	3196.9	3310.6	3448.9	3574.9	3798.0	4492.9	5088.2	5580.5
45°	3045.4	3174.8	3311.5	3484.7	3646.4	4553.1	5506.4	6362.5	7035.6	7601.9	8070.9
42.5°	3232.7	3421.4	3618.3	4611.7	5827.8	6893.0	7793.8	8604.5	9021.9	9181.4	9313.7
40°	3488.2	3945.2	5416.4	6765.4	7907.4	8930.4	9182.3	9409.6	9596.6	9727.9	9837.0
37.5°	4265.3	5906.1	7347.8	8648.7	9165.0	9460.3	9688.4	9874.5	10037.2	10110.0	10170.6
35°	6070.4	7642.3	8964.9	9324.7	9637.1	9877.3	10067.4	10170.0	10261.3	10280.8	10280.8
32.5°	7642.3	9004.3	9405.5	9731.4	10006.1	10151.6	10273.2	10280.8	10280.8	10270.3	10252.3
30°	8964.9	9405.5	9763.1	10053.5	10203.1	10280.8	10280.8	10263.9	10237.1	10254.3	10378.9
27.5°	9324.7	9731.4	10053.5	10220.4	10280.8	10280.0	10244.8	10262.0	10446.3	10608.0	11116.4
25°	9637.1	10006.1	10203.1	10280.8	10275.3	10235.0	10358.1	10579.1	11246.5	11907.0	13128.4
22.5°	9877.3	10151.6	10280.8	10280.0	10235.0	10390.6	10751.8	11643.7	13101.2	15007.6	18200.5
20°	10067.4	10273.2	10280.8	10244.8	10358.1	10751.8	11778.4	13847.7	16782.1	23283.1	30291.7
17.5°	10170.0	10280.8	10263.9	10262.0	10579.1	11643.7	13847.7	18024.7	25918.2	39751.2	53917.6
15°	10261.3	10280.8	10237.1	10446.3	11246.5	13101.2	16782.1	25918.2	42995.9	65281.2	92573.0
12.5°	10280.8	10270.3	10254.3	10608.0	11907.0	15007.6	23283.1	39751.2	65281.2	99201.6	147324.0
10°	10280.8	10252.3	10378.9	11116.4	13128.4	18200.5	30291.7	53917.6	92573.0	147324.0	214165.3
7.5°	10280.8	10238.0	10478.1	11524.4	14316.3	22298.5	40673.4	73456.8	124167.2	195348.1	304306.7
5°	10280.8	10227.6	10550.2	11822.0	15186.9	25319.7	48386.4	88581.6	152251.3	248421.1	389830.6
2.5°	10280.8	10221.3	10594.0	12003.3	15718.8	27173.1	53145.8	97991.2	169933.8	288122.0	451988.8
0°	10280.8	10219.2	10608.7	12064.2	15897.7	27798.1	54755.6	101188.3	175982.8	302914.0	474186.8
-2.5°	10280.8	10221.3	10594.0	12003.3	15718.8	27173.1	53145.8	97991.2	169933.8	288122.0	451988.8
-5°	10280.8	10227.6	10550.2	11822.0	15186.9	25319.7	48386.4	88581.6	152251.3	248421.1	389830.6
-7.5°	10280.8	10238.0	10478.1	11524.4	14316.3	22298.5	40673.4	73456.8	124167.2	195348.1	304306.7
-10°	10280.8	10252.3	10378.9	11116.4	13128.4	18200.5	30291.7	53917.6	92573.0	147324.0	214165.3
-12.5°	10280.8	10270.3	10254.3	10608.0	11907.0	15007.6	23283.1	39751.2	65281.2	99201.6	147324.0
-15°	10261.3	10280.8	10237.1	10446.3	11246.5	13101.2	16782.1	25918.2	42995.9	65281.2	92573.0
-17.5°	10170.0	10280.8	10263.9	10262.0	10579.1	11643.7	13847.7	18024.7	25918.2	39751.2	53917.6
-20°	10067.4	10273.2	10280.8	10244.8	10358.1	10751.8	11778.4	13847.7	16782.1	23283.1	30291.7



REPORT NUMBER: P601487 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200R-57-80-1S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	9877.3	10151.6	10280.8	10280.0	10235.0	10390.6	10751.8	11643.7	13101.2	15007.6	18200.5
-25°	9637.1	10006.1	10203.1	10280.8	10275.3	10235.0	10358.1	10579.1	11246.5	11907.0	13128.4
-27.5°	9324.7	9731.4	10053.5	10220.4	10280.8	10280.0	10244.8	10262.0	10446.3	10608.0	11116.4
-30°	8964.9	9405.5	9763.1	10053.5	10203.1	10280.8	10280.8	10263.9	10237.1	10254.3	10378.9
-32.5°	7642.3	9004.3	9405.5	9731.4	10006.1	10151.6	10273.2	10280.8	10280.8	10270.3	10252.3
-35°	6070.4	7642.3	8964.9	9324.7	9637.1	9877.3	10067.4	10170.0	10261.3	10280.8	10280.8
-37.5°	4265.3	5906.1	7347.8	8648.7	9165.0	9460.3	9688.4	9874.5	10037.2	10110.0	10170.6
-40°	3488.2	3945.2	5416.4	6765.4	7907.4	8930.4	9182.3	9409.6	9596.6	9727.9	9837.0
-42.5°	3232.7	3421.4	3618.3	4611.7	5827.8	6893.0	7793.8	8604.5	9021.9	9181.4	9313.7
-45°	3045.4	3174.8	3311.5	3484.7	3646.4	4553.1	5506.4	6362.5	7035.6	7601.9	8070.9
-47.5°	2842.6	2972.8	3089.4	3196.9	3310.6	3448.9	3574.9	3798.0	4492.9	5088.2	5580.5
-50°	2590.9	2753.9	2868.4	2975.8	3070.5	3155.8	3233.3	3319.2	3410.6	3488.7	3553.3
-52.5°	2270.6	2439.4	2598.6	2737.1	2829.3	2914.1	2990.9	3055.6	3111.6	3159.4	3198.8
-55°	1945.5	2101.6	2248.6	2386.0	2513.3	2630.1	2729.4	2792.4	2847.5	2894.6	2933.5
-57.5°	1627.6	1764.4	1894.9	2021.1	2137.8	2244.8	2341.7	2428.0	2503.5	2567.9	2621.0
-60°	1317.2	1436.1	1553.3	1663.0	1764.4	1857.3	1945.5	2024.1	2092.7	2151.3	2199.5
-62.5°	1018.6	1121.1	1222.6	1317.2	1404.6	1486.5	1562.5	1630.2	1689.3	1739.6	1781.0
-65°	751.9	836.8	916.3	990.3	1059.1	1130.9	1195.8	1253.5	1303.9	1346.8	1382.1
-67.5°	525.8	587.9	646.0	700.1	757.2	812.9	863.1	907.7	946.7	979.8	1007.1
-70°	329.8	374.5	416.3	458.5	502.5	542.6	578.8	611.0	639.0	662.9	682.5
-72.5°	178.8	200.0	223.8	257.6	288.7	317.1	342.7	365.5	385.3	402.1	416.0
-75°	87.9	97.5	114.5	130.2	144.7	157.9	169.7	180.3	189.5	197.3	203.7
-77.5°	54.7	59.7	64.4	68.7	72.7	76.4	79.7	82.6	85.1	87.3	89.0
-80°	43.8	44.8	45.7	46.6	47.3	48.1	48.7	49.3	49.8	50.2	50.6
-82.5°	35.4	36.1	36.8	37.5	38.1	38.6	39.1	39.6	39.9	40.3	40.5
-85°	23.3	24.3	25.2	26.1	26.9	27.6	28.2	28.8	29.3	29.7	30.1
-87.5°	8.4	8.6	8.8	9.0	9.2	9.4	9.6	9.7	9.9	10.0	10.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P601487 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200R-57-80-1S

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°	10.1	10.2	10.2	10.2	10.2	10.2	10.1	10.0	10.0	9.9	9.7
85°	30.3	30.5	30.7	30.7	30.7	30.5	30.3	30.1	29.7	29.3	28.8
82.5°	40.7	40.9	41.0	41.0	41.0	40.9	40.7	40.5	40.3	39.9	39.6
80°	50.8	51.0	51.2	51.2	51.2	51.0	50.8	50.6	50.2	49.8	49.3
77.5°	90.4	91.4	92.0	92.2	92.0	91.4	90.4	89.0	87.3	85.1	82.6
75°	208.7	212.3	214.5	215.2	214.5	212.3	208.7	203.7	197.3	189.5	180.3
72.5°	426.8	434.5	439.1	440.7	439.1	434.5	426.8	416.0	402.1	385.3	365.5
70°	697.8	708.7	715.3	717.5	715.3	708.7	697.8	682.5	662.9	639.0	611.0
67.5°	1028.3	1043.6	1052.7	1055.8	1052.7	1043.6	1028.3	1007.1	979.8	946.7	907.7
65°	1409.6	1429.4	1441.2	1445.2	1441.2	1429.4	1409.6	1382.1	1346.8	1303.9	1253.5
62.5°	1813.4	1836.6	1850.5	1855.2	1850.5	1836.6	1813.4	1781.0	1739.6	1689.3	1630.2
60°	2237.1	2264.1	2280.4	2285.8	2280.4	2264.1	2237.1	2199.5	2151.3	2092.7	2024.1
57.5°	2662.5	2692.3	2710.2	2716.2	2710.2	2692.3	2662.5	2621.0	2567.9	2503.5	2428.0
55°	2963.9	2985.7	2998.8	3003.2	2998.8	2985.7	2963.9	2933.5	2894.6	2847.5	2792.4
52.5°	3229.7	3251.9	3265.2	3269.7	3265.2	3251.9	3229.7	3198.8	3159.4	3111.6	3055.6
50°	3603.9	3640.3	3662.2	3669.5	3662.2	3640.3	3603.9	3553.3	3488.7	3410.6	3319.2
47.5°	5966.8	6244.4	6411.8	6467.7	6411.8	6244.4	5966.8	5580.5	5088.2	4492.9	3798.0
45°	8439.2	8704.3	8864.1	8917.5	8864.1	8704.3	8439.2	8070.9	7601.9	7035.6	6362.5
42.5°	9417.7	9492.7	9537.9	9553.0	9537.9	9492.7	9417.7	9313.7	9181.4	9021.9	8604.5
40°	9922.9	9984.9	10022.3	10034.8	10022.3	9984.9	9922.9	9837.0	9727.9	9596.6	9409.6
37.5°	10218.4	10252.9	10273.8	10280.8	10273.8	10252.9	10218.4	10170.6	10110.0	10037.2	9874.5
35°	10280.8	10280.8	10280.8	10280.8	10280.8	10280.8	10280.8	10280.8	10280.8	10261.3	10170.0
32.5°	10238.0	10227.6	10221.3	10219.2	10221.3	10227.6	10238.0	10252.3	10270.3	10280.8	10280.8
30°	10478.1	10550.2	10594.0	10608.7	10594.0	10550.2	10478.1	10378.9	10254.3	10237.1	10263.9
27.5°	11524.4	11822.0	12003.3	12064.2	12003.3	11822.0	11524.4	11116.4	10608.0	10446.3	10262.0
25°	14316.3	15186.9	15718.8	15897.7	15718.8	15186.9	14316.3	13128.4	11907.0	11246.5	10579.1
22.5°	22298.5	25319.7	27173.1	27798.1	27173.1	25319.7	22298.5	18200.5	15007.6	13101.2	11643.7
20°	40673.4	48386.4	53145.8	54755.6	53145.8	48386.4	40673.4	30291.7	23283.1	16782.1	13847.7
17.5°	73456.8	88581.6	97991.2	101188.3	97991.2	88581.6	73456.8	53917.6	39751.2	25918.2	18024.7
15°	124167.2	152251.3	169933.8	175982.8	169933.8	152251.3	124167.2	92573.0	65281.2	42995.9	25918.2
12.5°	195348.1	248421.1	288122.0	302914.0	288122.0	248421.1	195348.1	147324.0	99201.6	65281.2	39751.2
10°	304306.7	389830.6	451988.8	474186.8	451988.8	389830.6	304306.7	214165.3	147324.0	92573.0	53917.6
7.5°	431098.2	549953.2	639438.3	674298.1	639438.3	549953.2	431098.2	304306.7	195348.1	124167.2	73456.8
5°	549953.2	711749.4	837955.5	885448.7	837955.5	711749.4	549953.2	389830.6	248421.1	152251.3	88581.6
2.5°	639438.3	837955.5	981776.2	#####	981776.2	837955.5	639438.3	451988.8	288122.0	169933.8	97991.2
0°	674298.1	885448.7	#####	#####	#####	885448.7	674298.1	474186.8	302914.0	175982.8	101188.3
-2.5°	639438.3	837955.5	981776.2	#####	981776.2	837955.5	639438.3	451988.8	288122.0	169933.8	97991.2
-5°	549953.2	711749.4	837955.5	885448.7	837955.5	711749.4	549953.2	389830.6	248421.1	152251.3	88581.6
-7.5°	431098.2	549953.2	639438.3	674298.1	639438.3	549953.2	431098.2	304306.7	195348.1	124167.2	73456.8
-10°	304306.7	389830.6	451988.8	474186.8	451988.8	389830.6	304306.7	214165.3	147324.0	92573.0	53917.6
-12.5°	195348.1	248421.1	288122.0	302914.0	288122.0	248421.1	195348.1	147324.0	99201.6	65281.2	39751.2
-15°	124167.2	152251.3	169933.8	175982.8	169933.8	152251.3	124167.2	92573.0	65281.2	42995.9	25918.2
-17.5°	73456.8	88581.6	97991.2	101188.3	97991.2	88581.6	73456.8	53917.6	39751.2	25918.2	18024.7
-20°	40673.4	48386.4	53145.8	54755.6	53145.8	48386.4	40673.4	30291.7	23283.1	16782.1	13847.7



REPORT NUMBER: P601487 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200R-57-80-1S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	22298.5	25319.7	27173.1	27798.1	27173.1	25319.7	22298.5	18200.5	15007.6	13101.2	11643.7
-25°	14316.3	15186.9	15718.8	15897.7	15718.8	15186.9	14316.3	13128.4	11907.0	11246.5	10579.1
-27.5°	11524.4	11822.0	12003.3	12064.2	12003.3	11822.0	11524.4	11116.4	10608.0	10446.3	10262.0
-30°	10478.1	10550.2	10594.0	10608.7	10594.0	10550.2	10478.1	10378.9	10254.3	10237.1	10263.9
-32.5°	10238.0	10227.6	10221.3	10219.2	10221.3	10227.6	10238.0	10252.3	10270.3	10280.8	10280.8
-35°	10280.8	10280.8	10280.8	10280.8	10280.8	10280.8	10280.8	10280.8	10280.8	10261.3	10170.0
-37.5°	10218.4	10252.9	10273.8	10280.8	10273.8	10252.9	10218.4	10170.6	10110.0	10037.2	9874.5
-40°	9922.9	9984.9	10022.3	10034.8	10022.3	9984.9	9922.9	9837.0	9727.9	9596.6	9409.6
-42.5°	9417.7	9492.7	9537.9	9553.0	9537.9	9492.7	9417.7	9313.7	9181.4	9021.9	8604.5
-45°	8439.2	8704.3	8864.1	8917.5	8864.1	8704.3	8439.2	8070.9	7601.9	7035.6	6362.5
-47.5°	5966.8	6244.4	6411.8	6467.7	6411.8	6244.4	5966.8	5580.5	5088.2	4492.9	3798.0
-50°	3603.9	3640.3	3662.2	3669.5	3662.2	3640.3	3603.9	3553.3	3488.7	3410.6	3319.2
-52.5°	3229.7	3251.9	3265.2	3269.7	3265.2	3251.9	3229.7	3198.8	3159.4	3111.6	3055.6
-55°	2963.9	2985.7	2998.8	3003.2	2998.8	2985.7	2963.9	2933.5	2894.6	2847.5	2792.4
-57.5°	2662.5	2692.3	2710.2	2716.2	2710.2	2692.3	2662.5	2621.0	2567.9	2503.5	2428.0
-60°	2237.1	2264.1	2280.4	2285.8	2280.4	2264.1	2237.1	2199.5	2151.3	2092.7	2024.1
-62.5°	1813.4	1836.6	1850.5	1855.2	1850.5	1836.6	1813.4	1781.0	1739.6	1689.3	1630.2
-65°	1409.6	1429.4	1441.2	1445.2	1441.2	1429.4	1409.6	1382.1	1346.8	1303.9	1253.5
-67.5°	1028.3	1043.6	1052.7	1055.8	1052.7	1043.6	1028.3	1007.1	979.8	946.7	907.7
-70°	697.8	708.7	715.3	717.5	715.3	708.7	697.8	682.5	662.9	639.0	611.0
-72.5°	426.8	434.5	439.1	440.7	439.1	434.5	426.8	416.0	402.1	385.3	365.5
-75°	208.7	212.3	214.5	215.2	214.5	212.3	208.7	203.7	197.3	189.5	180.3
-77.5°	90.4	91.4	92.0	92.2	92.0	91.4	90.4	89.0	87.3	85.1	82.6
-80°	50.8	51.0	51.2	51.2	51.2	51.0	50.8	50.6	50.2	49.8	49.3
-82.5°	40.7	40.9	41.0	41.0	41.0	40.9	40.7	40.5	40.3	39.9	39.6
-85°	30.3	30.5	30.7	30.7	30.7	30.5	30.3	30.1	29.7	29.3	28.8
-87.5°	10.1	10.2	10.2	10.2	10.2	10.2	10.1	10.0	10.0	9.9	9.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P601487 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
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°	9.6	9.4	9.2	9.0	8.8	8.6	8.4	8.1	7.8	7.5	7.2
85°	28.2	27.6	26.9	26.1	25.2	24.3	23.3	22.2	21.1	19.9	18.7
82.5°	39.1	38.6	38.1	37.5	36.8	36.1	35.4	34.6	33.7	32.9	31.9
80°	48.7	48.1	47.3	46.6	45.7	44.8	43.8	42.7	41.6	40.4	39.2
77.5°	79.7	76.4	72.7	68.7	64.4	59.7	54.7	50.7	49.3	47.9	46.3
75°	169.7	157.9	144.7	130.2	114.5	97.5	87.9	81.5	74.7	67.6	60.1
72.5°	342.7	317.1	288.7	257.6	223.8	200.0	178.8	156.3	132.4	107.4	88.5
70°	578.8	542.6	502.5	458.5	416.3	374.5	329.8	282.3	232.2	195.8	165.8
67.5°	863.1	812.9	757.2	700.1	646.0	587.9	525.8	460.0	399.8	340.4	278.3
65°	1195.8	1130.9	1059.1	990.3	916.3	836.8	751.9	672.1	594.5	513.2	430.6
62.5°	1562.5	1486.5	1404.6	1317.2	1222.6	1121.1	1018.6	919.1	814.3	706.8	613.1
60°	1945.5	1857.3	1764.4	1663.0	1553.3	1436.1	1317.2	1191.4	1059.1	938.3	812.9
57.5°	2341.7	2244.8	2137.8	2021.1	1894.9	1764.4	1627.6	1483.1	1337.0	1186.2	1032.7
55°	2729.4	2630.1	2513.3	2386.0	2248.6	2101.6	1945.5	1784.4	1619.8	1448.0	1278.1
52.5°	2990.9	2914.1	2829.3	2737.1	2598.6	2439.4	2270.6	2092.7	1906.3	1718.8	1526.7
50°	3233.3	3155.8	3070.5	2975.8	2868.4	2753.9	2590.9	2399.6	2199.5	1991.0	1778.8
47.5°	3574.9	3448.9	3310.6	3196.9	3089.4	2972.8	2842.6	2700.8	2486.7	2264.1	2033.7
45°	5506.4	4553.1	3646.4	3484.7	3311.5	3174.8	3045.4	2902.6	2750.4	2530.6	2285.8
42.5°	7793.8	6893.0	5827.8	4611.7	3618.3	3421.4	3232.7	3088.2	2932.9	2765.3	2530.6
40°	9182.3	8930.4	7907.4	6765.4	5416.4	3945.2	3488.2	3261.9	3102.5	2932.9	2750.4
37.5°	9688.4	9460.3	9165.0	8648.7	7347.8	5906.1	4265.3	3510.6	3261.9	3088.2	2902.6
35°	10067.4	9877.3	9637.1	9324.7	8964.9	7642.3	6070.4	4265.3	3488.2	3232.7	3045.4
32.5°	10273.2	10151.6	10006.1	9731.4	9405.5	9004.3	7642.3	5906.1	3945.2	3421.4	3174.8
30°	10280.8	10280.8	10203.1	10053.5	9763.1	9405.5	8964.9	7347.8	5416.4	3618.3	3311.5
27.5°	10244.8	10280.0	10280.8	10220.4	10053.5	9731.4	9324.7	8648.7	6765.4	4611.7	3484.7
25°	10358.1	10235.0	10275.3	10280.8	10203.1	10006.1	9637.1	9165.0	7907.4	5827.8	3646.4
22.5°	10751.8	10390.6	10235.0	10280.0	10280.8	10151.6	9877.3	9460.3	8930.4	6893.0	4553.1
20°	11778.4	10751.8	10358.1	10244.8	10280.8	10273.2	10067.4	9688.4	9182.3	7793.8	5506.4
17.5°	13847.7	11643.7	10579.1	10262.0	10263.9	10280.8	10170.0	9874.5	9409.6	8604.5	6362.5
15°	16782.1	13101.2	11246.5	10446.3	10237.1	10280.8	10261.3	10037.2	9596.6	9021.9	7035.6
12.5°	23283.1	15007.6	11907.0	10608.0	10254.3	10270.3	10280.8	10110.0	9727.9	9181.4	7601.9
10°	30291.7	18200.5	13128.4	11116.4	10378.9	10252.3	10280.8	10170.6	9837.0	9313.7	8070.9
7.5°	40673.4	22298.5	14316.3	11524.4	10478.1	10238.0	10280.8	10218.4	9922.9	9417.7	8439.2
5°	48386.4	25319.7	15186.9	11822.0	10550.2	10227.6	10280.8	10252.9	9984.9	9492.7	8704.3
2.5°	53145.8	27173.1	15718.8	12003.3	10594.0	10221.3	10280.8	10273.8	10022.3	9537.9	8864.1
0°	54755.6	27798.1	15897.7	12064.2	10608.7	10219.2	10280.8	10280.8	10034.8	9553.0	8917.5
-2.5°	53145.8	27173.1	15718.8	12003.3	10594.0	10221.3	10280.8	10273.8	10022.3	9537.9	8864.1
-5°	48386.4	25319.7	15186.9	11822.0	10550.2	10227.6	10280.8	10252.9	9984.9	9492.7	8704.3
-7.5°	40673.4	22298.5	14316.3	11524.4	10478.1	10238.0	10280.8	10218.4	9922.9	9417.7	8439.2
-10°	30291.7	18200.5	13128.4	11116.4	10378.9	10252.3	10280.8	10170.6	9837.0	9313.7	8070.9
-12.5°	23283.1	15007.6	11907.0	10608.0	10254.3	10270.3	10280.8	10110.0	9727.9	9181.4	7601.9
-15°	16782.1	13101.2	11246.5	10446.3	10237.1	10280.8	10261.3	10037.2	9596.6	9021.9	7035.6
-17.5°	13847.7	11643.7	10579.1	10262.0	10263.9	10280.8	10170.0	9874.5	9409.6	8604.5	6362.5
-20°	11778.4	10751.8	10358.1	10244.8	10280.8	10273.2	10067.4	9688.4	9182.3	7793.8	5506.4



REPORT NUMBER: P601487 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200R-57-80-1S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	10751.8	10390.6	10235.0	10280.0	10280.8	10151.6	9877.3	9460.3	8930.4	6893.0	4553.1
-25°	10358.1	10235.0	10275.3	10280.8	10203.1	10006.1	9637.1	9165.0	7907.4	5827.8	3646.4
-27.5°	10244.8	10280.0	10280.8	10220.4	10053.5	9731.4	9324.7	8648.7	6765.4	4611.7	3484.7
-30°	10280.8	10280.8	10203.1	10053.5	9763.1	9405.5	8964.9	7347.8	5416.4	3618.3	3311.5
-32.5°	10273.2	10151.6	10006.1	9731.4	9405.5	9004.3	7642.3	5906.1	3945.2	3421.4	3174.8
-35°	10067.4	9877.3	9637.1	9324.7	8964.9	7642.3	6070.4	4265.3	3488.2	3232.7	3045.4
-37.5°	9688.4	9460.3	9165.0	8648.7	7347.8	5906.1	4265.3	3510.6	3261.9	3088.2	2902.6
-40°	9182.3	8930.4	7907.4	6765.4	5416.4	3945.2	3488.2	3261.9	3102.5	2932.9	2750.4
-42.5°	7793.8	6893.0	5827.8	4611.7	3618.3	3421.4	3232.7	3088.2	2932.9	2765.3	2530.6
-45°	5506.4	4553.1	3646.4	3484.7	3311.5	3174.8	3045.4	2902.6	2750.4	2530.6	2285.8
-47.5°	3574.9	3448.9	3310.6	3196.9	3089.4	2972.8	2842.6	2700.8	2486.7	2264.1	2033.7
-50°	3233.3	3155.8	3070.5	2975.8	2868.4	2753.9	2590.9	2399.6	2199.5	1991.0	1778.8
-52.5°	2990.9	2914.1	2829.3	2737.1	2598.6	2439.4	2270.6	2092.7	1906.3	1718.8	1526.7
-55°	2729.4	2630.1	2513.3	2386.0	2248.6	2101.6	1945.5	1784.4	1619.8	1448.0	1278.1
-57.5°	2341.7	2244.8	2137.8	2021.1	1894.9	1764.4	1627.6	1483.1	1337.0	1186.2	1032.7
-60°	1945.5	1857.3	1764.4	1663.0	1553.3	1436.1	1317.2	1191.4	1059.1	938.3	812.9
-62.5°	1562.5	1486.5	1404.6	1317.2	1222.6	1121.1	1018.6	919.1	814.3	706.8	613.1
-65°	1195.8	1130.9	1059.1	990.3	916.3	836.8	751.9	672.1	594.5	513.2	430.6
-67.5°	863.1	812.9	757.2	700.1	646.0	587.9	525.8	460.0	399.8	340.4	278.3
-70°	578.8	542.6	502.5	458.5	416.3	374.5	329.8	282.3	232.2	195.8	165.8
-72.5°	342.7	317.1	288.7	257.6	223.8	200.0	178.8	156.3	132.4	107.4	88.5
-75°	169.7	157.9	144.7	130.2	114.5	97.5	87.9	81.5	74.7	67.6	60.1
-77.5°	79.7	76.4	72.7	68.7	64.4	59.7	54.7	50.7	49.3	47.9	46.3
-80°	48.7	48.1	47.3	46.6	45.7	44.8	43.8	42.7	41.6	40.4	39.2
-82.5°	39.1	38.6	38.1	37.5	36.8	36.1	35.4	34.6	33.7	32.9	31.9
-85°	28.2	27.6	26.9	26.1	25.2	24.3	23.3	22.2	21.1	19.9	18.7
-87.5°	9.6	9.4	9.2	9.0	8.8	8.6	8.4	8.1	7.8	7.5	7.2
-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: P601487 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200R-57-80-1S

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°	6.9	6.6	6.2	5.8	5.5	5.1	4.7	4.3	3.9	3.5	3.1
85°	17.4	16.0	14.6	13.2	11.7	10.2	9.4	8.6	7.8	7.0	6.1
82.5°	30.9	29.2	27.1	24.9	22.7	20.4	18.0	15.6	13.2	10.7	9.2
80°	37.9	36.5	35.1	33.7	32.2	30.5	27.4	24.2	20.9	17.6	14.2
77.5°	44.7	43.0	41.3	39.5	37.6	35.7	33.7	31.7	28.7	24.5	20.3
75°	52.4	49.5	47.4	45.2	43.0	40.7	38.4	36.0	33.5	31.0	26.3
72.5°	79.4	70.0	60.2	50.9	48.3	45.7	43.0	40.2	37.3	34.4	31.5
70°	134.5	102.0	84.3	72.7	60.9	50.6	47.5	44.3	41.1	37.8	34.4
67.5°	214.4	177.8	140.0	101.0	81.8	68.1	54.1	48.4	44.8	41.1	37.3
65°	358.6	284.0	210.7	167.4	122.9	87.3	71.8	55.9	48.4	44.3	40.2
62.5°	515.7	419.6	334.8	247.5	184.0	133.9	89.1	71.8	54.1	47.5	43.0
60°	689.0	578.8	465.2	365.5	267.9	189.5	133.9	87.3	68.1	50.6	45.7
57.5°	891.3	745.2	617.0	490.5	375.7	267.9	184.0	122.9	81.8	60.9	48.3
55°	1102.4	938.7	776.6	629.8	490.5	365.5	247.5	167.4	101.0	72.7	50.9
52.5°	1333.8	1139.2	954.6	776.6	617.0	465.2	334.8	210.7	140.0	84.3	60.2
50°	1566.3	1352.4	1139.2	938.7	745.2	578.8	419.6	284.0	177.8	102.0	70.0
47.5°	1798.9	1566.3	1333.8	1102.4	891.3	689.0	515.7	358.6	214.4	134.5	79.4
45°	2033.7	1778.8	1526.7	1278.1	1032.7	812.9	613.1	430.6	278.3	165.8	88.5
42.5°	2264.1	1991.0	1718.8	1448.0	1186.2	938.3	706.8	513.2	340.4	195.8	107.4
40°	2486.7	2199.5	1906.3	1619.8	1337.0	1059.1	814.3	594.5	399.8	232.2	132.4
37.5°	2700.8	2399.6	2092.7	1784.4	1483.1	1191.4	919.1	672.1	460.0	282.3	156.3
35°	2842.6	2590.9	2270.6	1945.5	1627.6	1317.2	1018.6	751.9	525.8	329.8	178.8
32.5°	2972.8	2753.9	2439.4	2101.6	1764.4	1436.1	1121.1	836.8	587.9	374.5	200.0
30°	3089.4	2868.4	2598.6	2248.6	1894.9	1553.3	1222.6	916.3	646.0	416.3	223.8
27.5°	3196.9	2975.8	2737.1	2386.0	2021.1	1663.0	1317.2	990.3	700.1	458.5	257.6
25°	3310.6	3070.5	2829.3	2513.3	2137.8	1764.4	1404.6	1059.1	757.2	502.5	288.7
22.5°	3448.9	3155.8	2914.1	2630.1	2244.8	1857.3	1486.5	1130.9	812.9	542.6	317.1
20°	3574.9	3233.3	2990.9	2729.4	2341.7	1945.5	1562.5	1195.8	863.1	578.8	342.7
17.5°	3798.0	3319.2	3055.6	2792.4	2428.0	2024.1	1630.2	1253.5	907.7	611.0	365.5
15°	4492.9	3410.6	3111.6	2847.5	2503.5	2092.7	1689.3	1303.9	946.7	639.0	385.3
12.5°	5088.2	3488.7	3159.4	2894.6	2567.9	2151.3	1739.6	1346.8	979.8	662.9	402.1
10°	5580.5	3553.3	3198.8	2933.5	2621.0	2199.5	1781.0	1382.1	1007.1	682.5	416.0
7.5°	5966.8	3603.9	3229.7	2963.9	2662.5	2237.1	1813.4	1409.6	1028.3	697.8	426.8
5°	6244.4	3640.3	3251.9	2985.7	2692.3	2264.1	1836.6	1429.4	1043.6	708.7	434.5
2.5°	6411.8	3662.2	3265.2	2998.8	2710.2	2280.4	1850.5	1441.2	1052.7	715.3	439.1
0°	6467.7	3669.5	3269.7	3003.2	2716.2	2285.8	1855.2	1445.2	1055.8	717.5	440.7
-2.5°	6411.8	3662.2	3265.2	2998.8	2710.2	2280.4	1850.5	1441.2	1052.7	715.3	439.1
-5°	6244.4	3640.3	3251.9	2985.7	2692.3	2264.1	1836.6	1429.4	1043.6	708.7	434.5
-7.5°	5966.8	3603.9	3229.7	2963.9	2662.5	2237.1	1813.4	1409.6	1028.3	697.8	426.8
-10°	5580.5	3553.3	3198.8	2933.5	2621.0	2199.5	1781.0	1382.1	1007.1	682.5	416.0
-12.5°	5088.2	3488.7	3159.4	2894.6	2567.9	2151.3	1739.6	1346.8	979.8	662.9	402.1
-15°	4492.9	3410.6	3111.6	2847.5	2503.5	2092.7	1689.3	1303.9	946.7	639.0	385.3
-17.5°	3798.0	3319.2	3055.6	2792.4	2428.0	2024.1	1630.2	1253.5	907.7	611.0	365.5
-20°	3574.9	3233.3	2990.9	2729.4	2341.7	1945.5	1562.5	1195.8	863.1	578.8	342.7



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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°	3448.9	3155.8	2914.1	2630.1	2244.8	1857.3	1486.5	1130.9	812.9	542.6	317.1
-25°	3310.6	3070.5	2829.3	2513.3	2137.8	1764.4	1404.6	1059.1	757.2	502.5	288.7
-27.5°	3196.9	2975.8	2737.1	2386.0	2021.1	1663.0	1317.2	990.3	700.1	458.5	257.6
-30°	3089.4	2868.4	2598.6	2248.6	1894.9	1553.3	1222.6	916.3	646.0	416.3	223.8
-32.5°	2972.8	2753.9	2439.4	2101.6	1764.4	1436.1	1121.1	836.8	587.9	374.5	200.0
-35°	2842.6	2590.9	2270.6	1945.5	1627.6	1317.2	1018.6	751.9	525.8	329.8	178.8
-37.5°	2700.8	2399.6	2092.7	1784.4	1483.1	1191.4	919.1	672.1	460.0	282.3	156.3
-40°	2486.7	2199.5	1906.3	1619.8	1337.0	1059.1	814.3	594.5	399.8	232.2	132.4
-42.5°	2264.1	1991.0	1718.8	1448.0	1186.2	938.3	706.8	513.2	340.4	195.8	107.4
-45°	2033.7	1778.8	1526.7	1278.1	1032.7	812.9	613.1	430.6	278.3	165.8	88.5
-47.5°	1798.9	1566.3	1333.8	1102.4	891.3	689.0	515.7	358.6	214.4	134.5	79.4
-50°	1566.3	1352.4	1139.2	938.7	745.2	578.8	419.6	284.0	177.8	102.0	70.0
-52.5°	1333.8	1139.2	954.6	776.6	617.0	465.2	334.8	210.7	140.0	84.3	60.2
-55°	1102.4	938.7	776.6	629.8	490.5	365.5	247.5	167.4	101.0	72.7	50.9
-57.5°	891.3	745.2	617.0	490.5	375.7	267.9	184.0	122.9	81.8	60.9	48.3
-60°	689.0	578.8	465.2	365.5	267.9	189.5	133.9	87.3	68.1	50.6	45.7
-62.5°	515.7	419.6	334.8	247.5	184.0	133.9	89.1	71.8	54.1	47.5	43.0
-65°	358.6	284.0	210.7	167.4	122.9	87.3	71.8	55.9	48.4	44.3	40.2
-67.5°	214.4	177.8	140.0	101.0	81.8	68.1	54.1	48.4	44.8	41.1	37.3
-70°	134.5	102.0	84.3	72.7	60.9	50.6	47.5	44.3	41.1	37.8	34.4
-72.5°	79.4	70.0	60.2	50.9	48.3	45.7	43.0	40.2	37.3	34.4	31.5
-75°	52.4	49.5	47.4	45.2	43.0	40.7	38.4	36.0	33.5	31.0	26.3
-77.5°	44.7	43.0	41.3	39.5	37.6	35.7	33.7	31.7	28.7	24.5	20.3
-80°	37.9	36.5	35.1	33.7	32.2	30.5	27.4	24.2	20.9	17.6	14.2
-82.5°	30.9	29.2	27.1	24.9	22.7	20.4	18.0	15.6	13.2	10.7	9.2
-85°	17.4	16.0	14.6	13.2	11.7	10.2	9.4	8.6	7.8	7.0	6.1
-87.5°	6.9	6.6	6.2	5.8	5.5	5.1	4.7	4.3	3.9	3.5	3.1
-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: P601487 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	2.6	2.2	1.8	1.3	0.9	0.4	0.0
85°	5.3	4.4	3.5	2.7	1.8	0.9	0.0
82.5°	7.9	6.6	5.3	4.0	2.7	1.3	0.0
80°	10.8	8.8	7.0	5.3	3.5	1.8	0.0
77.5°	16.0	11.7	8.8	6.6	4.4	2.2	0.0
75°	21.2	16.0	10.8	7.9	5.3	2.6	0.0
72.5°	26.3	20.3	14.2	9.2	6.1	3.1	0.0
70°	31.0	24.5	17.6	10.7	7.0	3.5	0.0
67.5°	33.5	28.7	20.9	13.2	7.8	3.9	0.0
65°	36.0	31.7	24.2	15.6	8.6	4.3	0.0
62.5°	38.4	33.7	27.4	18.0	9.4	4.7	0.0
60°	40.7	35.7	30.5	20.4	10.2	5.1	0.0
57.5°	43.0	37.6	32.2	22.7	11.7	5.5	0.0
55°	45.2	39.5	33.7	24.9	13.2	5.8	0.0
52.5°	47.4	41.3	35.1	27.1	14.6	6.2	0.0
50°	49.5	43.0	36.5	29.2	16.0	6.6	0.0
47.5°	52.4	44.7	37.9	30.9	17.4	6.9	0.0
45°	60.1	46.3	39.2	31.9	18.7	7.2	0.0
42.5°	67.6	47.9	40.4	32.9	19.9	7.5	0.0
40°	74.7	49.3	41.6	33.7	21.1	7.8	0.0
37.5°	81.5	50.7	42.7	34.6	22.2	8.1	0.0
35°	87.9	54.7	43.8	35.4	23.3	8.4	0.0
32.5°	97.5	59.7	44.8	36.1	24.3	8.6	0.0
30°	114.5	64.4	45.7	36.8	25.2	8.8	0.0
27.5°	130.2	68.7	46.6	37.5	26.1	9.0	0.0
25°	144.7	72.7	47.3	38.1	26.9	9.2	0.0
22.5°	157.9	76.4	48.1	38.6	27.6	9.4	0.0
20°	169.7	79.7	48.7	39.1	28.2	9.6	0.0
17.5°	180.3	82.6	49.3	39.6	28.8	9.7	0.0
15°	189.5	85.1	49.8	39.9	29.3	9.9	0.0
12.5°	197.3	87.3	50.2	40.3	29.7	10.0	0.0
10°	203.7	89.0	50.6	40.5	30.1	10.0	0.0
7.5°	208.7	90.4	50.8	40.7	30.3	10.1	0.0
5°	212.3	91.4	51.0	40.9	30.5	10.2	0.0
2.5°	214.5	92.0	51.2	41.0	30.7	10.2	0.0
0°	215.2	92.2	51.2	41.0	30.7	10.2	0.0
-2.5°	214.5	92.0	51.2	41.0	30.7	10.2	0.0
-5°	212.3	91.4	51.0	40.9	30.5	10.2	0.0
-7.5°	208.7	90.4	50.8	40.7	30.3	10.1	0.0
-10°	203.7	89.0	50.6	40.5	30.1	10.0	0.0
-12.5°	197.3	87.3	50.2	40.3	29.7	10.0	0.0
-15°	189.5	85.1	49.8	39.9	29.3	9.9	0.0
-17.5°	180.3	82.6	49.3	39.6	28.8	9.7	0.0
-20°	169.7	79.7	48.7	39.1	28.2	9.6	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	157.9	76.4	48.1	38.6	27.6	9.4	0.0
-25°	144.7	72.7	47.3	38.1	26.9	9.2	0.0
-27.5°	130.2	68.7	46.6	37.5	26.1	9.0	0.0
-30°	114.5	64.4	45.7	36.8	25.2	8.8	0.0
-32.5°	97.5	59.7	44.8	36.1	24.3	8.6	0.0
-35°	87.9	54.7	43.8	35.4	23.3	8.4	0.0
-37.5°	81.5	50.7	42.7	34.6	22.2	8.1	0.0
-40°	74.7	49.3	41.6	33.7	21.1	7.8	0.0
-42.5°	67.6	47.9	40.4	32.9	19.9	7.5	0.0
-45°	60.1	46.3	39.2	31.9	18.7	7.2	0.0
-47.5°	52.4	44.7	37.9	30.9	17.4	6.9	0.0
-50°	49.5	43.0	36.5	29.2	16.0	6.6	0.0
-52.5°	47.4	41.3	35.1	27.1	14.6	6.2	0.0
-55°	45.2	39.5	33.7	24.9	13.2	5.8	0.0
-57.5°	43.0	37.6	32.2	22.7	11.7	5.5	0.0
-60°	40.7	35.7	30.5	20.4	10.2	5.1	0.0
-62.5°	38.4	33.7	27.4	18.0	9.4	4.7	0.0
-65°	36.0	31.7	24.2	15.6	8.6	4.3	0.0
-67.5°	33.5	28.7	20.9	13.2	7.8	3.9	0.0
-70°	31.0	24.5	17.6	10.7	7.0	3.5	0.0
-72.5°	26.3	20.3	14.2	9.2	6.1	3.1	0.0
-75°	21.2	16.0	10.8	7.9	5.3	2.6	0.0
-77.5°	16.0	11.7	8.8	6.6	4.4	2.2	0.0
-80°	10.8	8.8	7.0	5.3	3.5	1.8	0.0
-82.5°	7.9	6.6	5.3	4.0	2.7	1.3	0.0
-85°	5.3	4.4	3.5	2.7	1.8	0.9	0.0
-87.5°	2.6	2.2	1.8	1.3	0.9	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

