

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: P574504 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-40-70-1S-CV2**

Issue Date: 10/17/2021

Test Information

Test Method: LM-79-08
Report Number: P574504 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/17/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680R-40-70-1S-CV2
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 1S BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

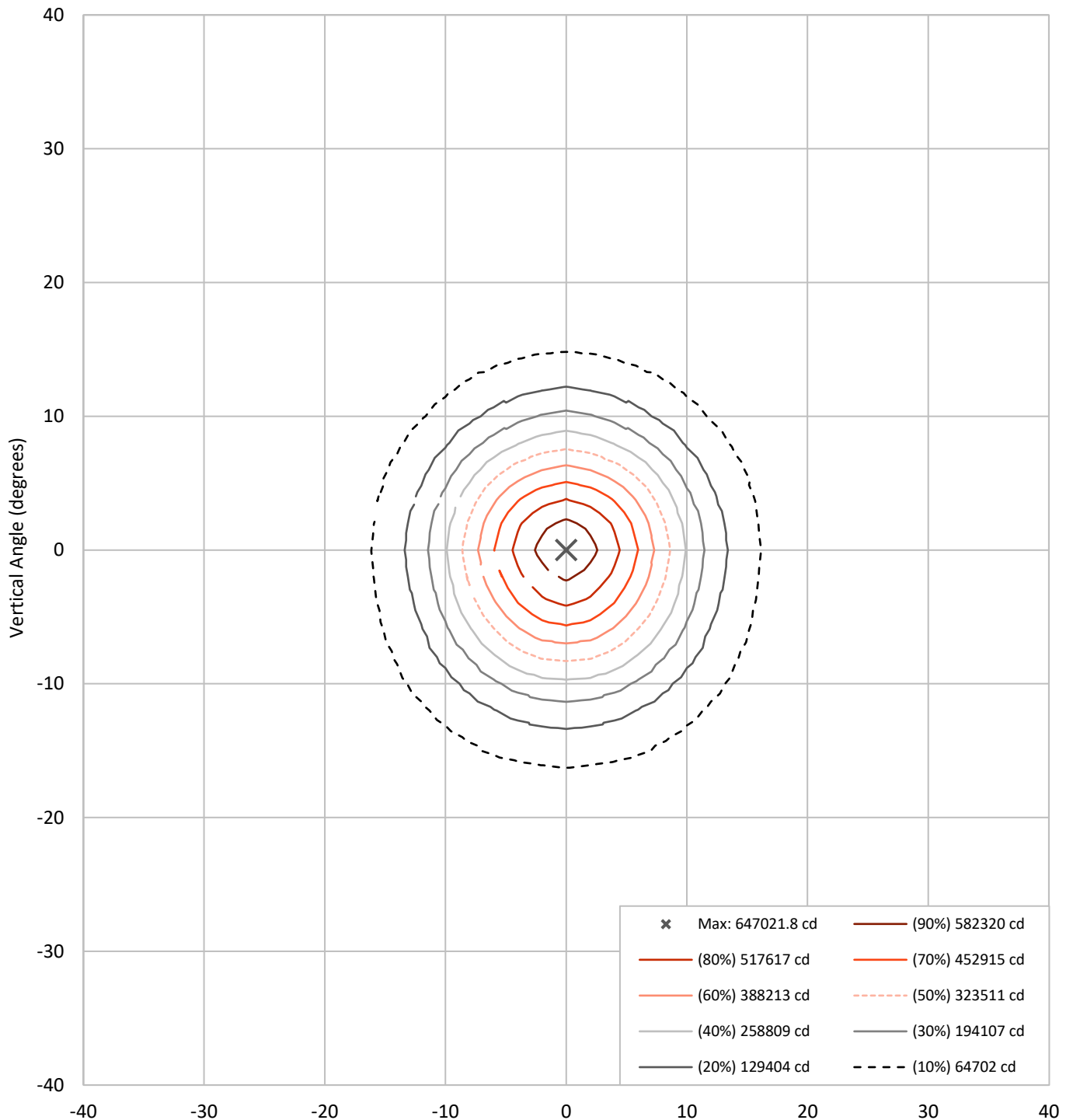
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	67484.5 lumens	Max Intensity:	647021.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	93.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	17.2°H x 15.8°V	Field Angle (10%):	32.2°H x 30.8°V
Beam Lumens:	27713.6 lumens	Field Lumens:	55878.3 lumens
Beam Efficiency:	41.1%	Field Efficiency:	82.8%

Input Watts (W): 720
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Candela Plot





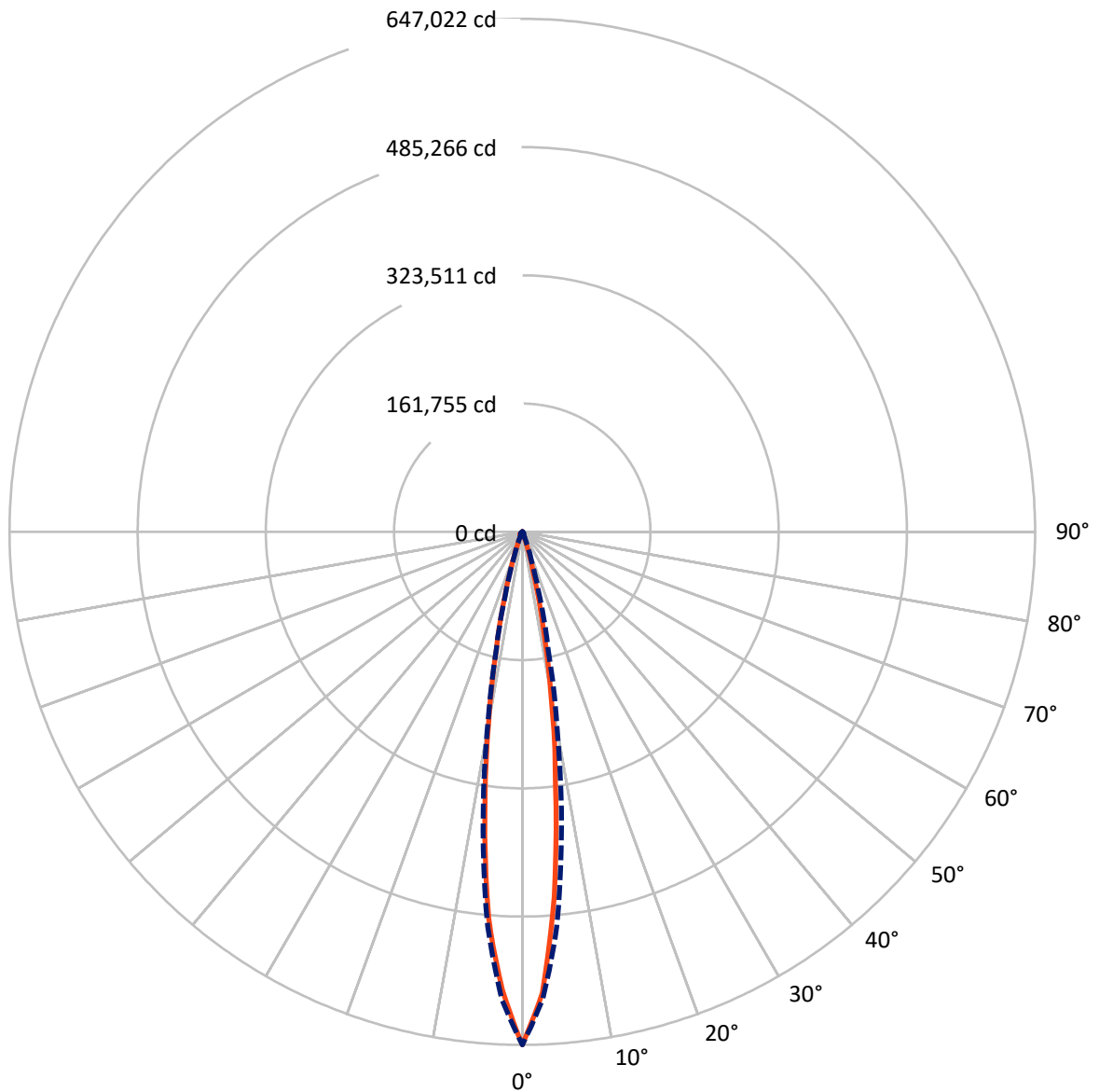
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Lumen Table

90	0.2	0.4	0.6	0.5	0.5	0.5	0.6	0.4	0.2										
80	0.2	0.4	0.6	0.5	0.5	0.5	0.6	0.4	0.2										
70	0.2	0.1	0.2	0.5	0.6	0.3	0.2	0.2	0.2	0.2	0.3	0.6	0.5	0.2	0.1	0.2			
60		0.1	0.3	0.6	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6	0.3	0.1				
50	0.2	0.2	0.4	0.5	0.6	0.8	1.0	1.2	1.2	1.0	0.8	0.6	0.5	0.4	0.2	0.2			
40		0.2	0.8	1.6	3.5	5.6	5.8	6.7	6.7	5.8	5.6	3.5	1.6	0.8	0.2				
30	0.2	0.4	2.5	8.6	22.6	27.8	40.3	77.0	77.0	40.3	27.8	22.6	8.6	2.5	0.4	0.2			
20		0.9	5.4	22.2	48.0	73.1	435.4	1786.5	1786.5	435.4	73.1	48.0	22.2	5.4	0.9				
10	0.3	1.7	9.3	43.3	75.0	171.1	2230.3	10335.8	10335.8	2230.3	171.1	75.0	43.3	9.3	1.7	0.3			
0		2.8	12.3	52.3	87.6	175.9	2372.6	10891.3	10891.3	2372.6	175.9	87.6	52.3	12.3	2.8				
-10	0.6	3.2	12.6	49.5	92.7	118.7	662.7	2486.6	2486.6	662.7	118.7	92.7	49.5	12.6	3.2	0.6			
-20		3.0	11.0	27.7	71.8	91.3	115.5	186.3	186.3	115.5	91.3	71.8	27.7	11.0	3.0				
-30	0.5	2.5	8.4	15.8	40.1	76.0	92.0	97.1	97.1	92.0	76.0	40.1	15.8	8.4	2.5	0.5			
-40		1.7	5.9	12.3	19.7	35.8	66.9	91.9	91.9	66.9	35.8	19.7	12.3	5.9	1.7				
-50	0.3	0.8	3.5	8.4	15.0	21.2	26.4	29.5	29.5	26.4	21.2	15.0	8.4	3.5	0.8	0.3			
-60		0.4	1.4	4.0	8.2	13.3	18.6	21.8	21.8	18.6	13.3	8.2	4.0	1.4	0.4				
-70	0.2	1.5	4.0	8.9	12.8	8.9	4.0	1.5	0.2							0.2			
-80		0.2	1.5	4.0	8.9	12.8	8.9	4.0	1.5	0.2									
-90	0.2	1.5	4.0	8.9	12.8	8.9	4.0	1.5	0.2							0.2			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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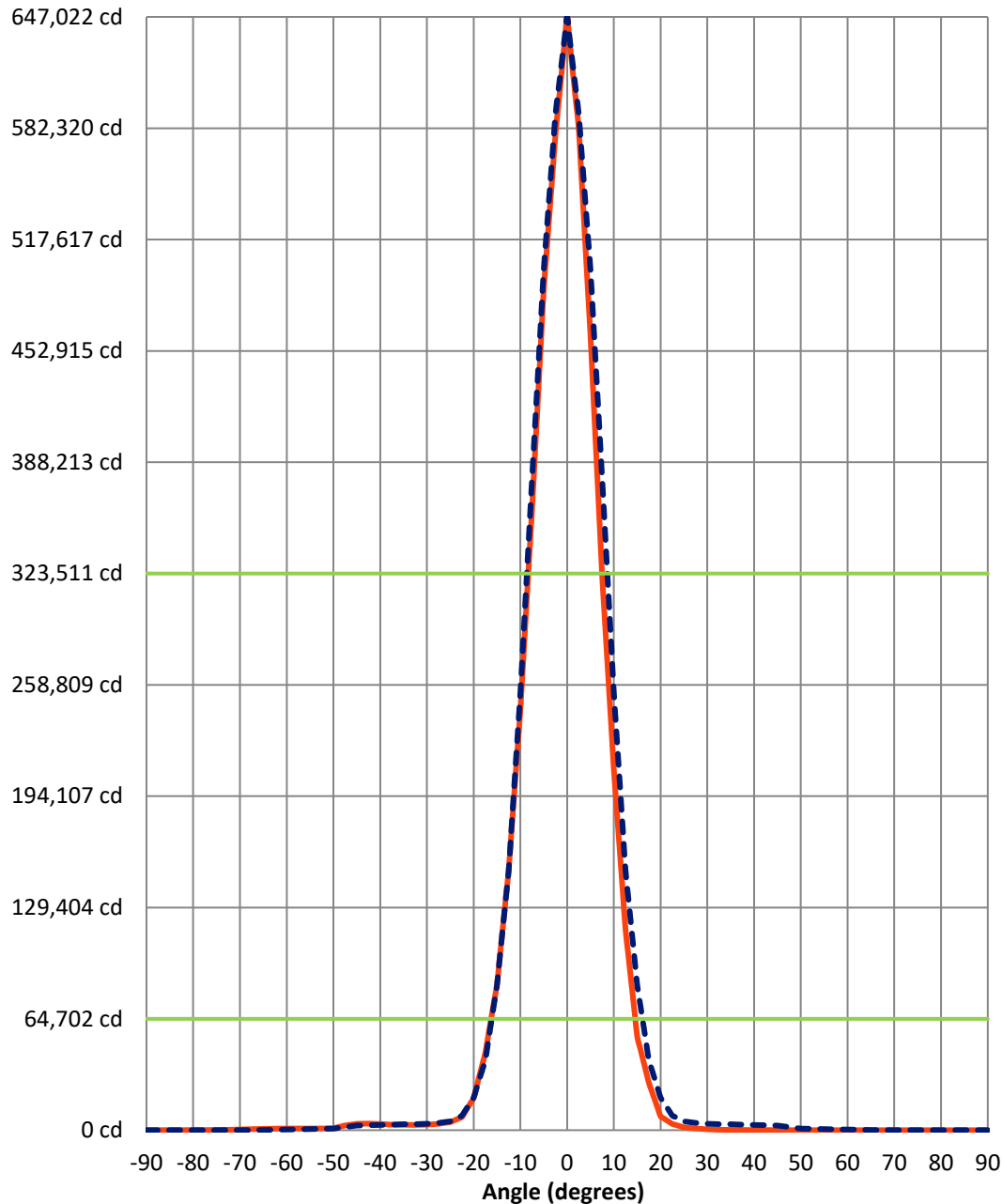
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 17.2°
V Angle: 15.8°
Lumens: 27713.6
Efficiency: 41.1%

Field:
H Angle: 32.2°
V Angle: 30.8°
Lumens: 55878.3
Efficiency: 82.8%

Spill:
Lumens: 11606.2
Efficiency: 17.2%

— 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°	7.0	7.0	7.0	7.5	7.9	8.4	8.8	8.8	8.8	8.8	8.8
87.5°	7.0	7.1	7.2	7.2	7.3	7.4	7.5	7.4	7.3	7.2	7.0
85°	7.0	7.2	7.3	7.5	7.6	7.8	7.9	7.8	7.6	7.4	7.0
82.5°	7.0	7.2	7.5	7.7	7.9	8.2	8.4	8.2	7.9	7.4	7.0
80°	7.0	7.3	7.6	7.9	8.2	8.6	8.7	8.1	7.6	7.2	7.0
77.5°	7.0	7.4	7.8	8.2	8.6	8.7	8.3	7.7	7.3	7.1	7.0
75°	7.0	7.5	7.9	8.4	8.8	8.4	7.9	7.3	7.0	7.2	7.1
72.5°	7.0	7.5	8.1	8.6	8.6	8.2	7.5	7.1	7.4	7.4	7.2
70°	7.0	7.6	8.2	8.8	8.5	7.9	7.2	7.6	7.8	7.7	7.2
67.5°	7.0	7.7	8.4	8.7	8.4	7.7	7.6	8.0	8.2	7.7	7.3
65°	7.0	7.8	8.5	8.7	8.3	7.8	8.0	8.5	8.2	7.8	7.4
62.5°	7.0	7.8	8.7	8.7	8.2	8.0	8.4	8.7	8.3	7.9	7.5
60°	7.0	7.9	8.8	8.7	8.1	8.3	8.8	8.8	8.4	7.9	7.5
57.5°	7.0	8.0	8.8	8.7	8.3	8.5	8.8	8.8	8.4	8.0	7.9
55°	7.0	8.0	8.8	8.7	8.4	8.7	8.8	8.8	8.5	8.2	8.4
52.5°	7.0	8.1	8.8	8.7	8.5	8.8	8.8	8.8	8.6	8.4	8.8
50°	7.0	8.2	8.8	8.7	8.6	8.8	8.8	8.9	8.7	8.7	9.8
47.5°	7.0	8.2	8.8	8.7	8.7	8.8	8.8	9.0	8.8	8.8	10.8
45°	7.0	8.3	8.8	8.7	8.7	8.8	9.0	9.2	9.0	9.4	11.6
42.5°	7.0	8.3	8.8	8.8	8.8	8.8	9.1	9.4	9.2	9.9	12.6
40°	7.0	8.4	8.8	8.8	8.8	8.8	9.3	9.6	9.6	10.3	13.5
37.5°	7.0	8.4	8.8	8.8	8.8	8.8	9.6	9.9	10.4	11.3	14.1
35°	7.0	8.5	8.8	8.8	8.8	8.9	9.8	10.3	11.1	12.7	14.7
32.5°	7.0	8.5	8.8	8.8	8.8	9.1	10.1	10.6	12.0	14.2	16.9
30°	7.0	8.6	8.8	8.8	8.8	9.3	10.4	11.1	12.8	15.8	19.3
27.5°	7.0	8.6	8.8	8.8	8.9	9.5	10.7	11.8	13.8	17.5	21.7
25°	7.0	8.6	8.8	8.8	9.0	9.7	11.0	12.5	15.2	19.4	24.3
22.5°	7.0	8.7	8.8	8.8	9.1	9.9	11.3	13.2	16.5	21.5	28.3
20°	7.0	8.7	8.8	8.8	9.2	10.1	11.7	13.9	17.9	23.5	32.3
17.5°	7.0	8.7	8.8	8.8	9.4	10.3	12.0	14.5	19.3	25.6	36.2
15°	7.0	8.7	8.8	8.8	9.5	10.4	12.3	15.2	20.6	27.6	40.1
12.5°	7.0	8.8	8.8	8.8	9.7	10.5	12.6	16.0	22.0	29.6	43.7
10°	7.0	8.8	8.8	8.8	9.9	10.5	13.0	16.7	23.4	33.0	49.4
7.5°	7.0	8.8	8.8	8.8	10.1	10.6	13.3	17.5	24.8	36.8	60.0
5°	7.0	8.8	8.8	8.8	10.3	10.6	13.6	18.2	26.0	40.5	70.8
2.5°	7.0	8.8	8.8	8.8	10.4	10.6	13.9	18.8	27.2	44.2	81.6
0°	7.0	8.8	8.8	8.8	10.6	10.6	14.1	19.4	28.2	47.7	91.8
-2.5°	7.0	8.8	8.8	8.9	10.8	11.2	15.5	23.2	36.8	62.1	114.7
-5°	7.0	8.8	8.8	9.0	10.9	11.8	16.8	26.9	45.0	75.8	136.3
-7.5°	7.0	8.8	8.8	9.1	11.0	12.3	18.1	30.3	52.6	88.6	155.9
-10°	7.0	8.8	8.8	9.2	11.1	12.8	19.2	33.3	59.5	100.2	173.3
-12.5°	7.0	8.8	8.8	9.3	11.2	13.3	20.1	35.9	65.3	110.3	185.0
-15°	7.0	8.7	8.8	9.4	11.3	13.7	20.9	37.9	70.5	118.5	193.0
-17.5°	7.0	8.7	8.8	9.5	11.4	14.0	21.5	40.1	75.2	125.3	198.8
-20°	7.0	8.7	8.8	9.6	11.4	14.3	22.1	42.1	78.5	130.3	202.2



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 CATALOG NUMBER: EPH-LS-08-0680R-40-70-1S-CV2

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	7.0	8.7	8.8	9.6	11.4	14.4	22.8	43.1	80.3	133.4	203.1
-25°	7.0	8.6	8.8	9.6	11.5	14.7	23.2	43.1	80.6	134.7	201.4
-27.5°	7.0	8.6	8.8	9.6	11.5	15.0	23.1	42.1	79.2	134.3	202.0
-30°	7.0	8.6	8.8	9.6	11.5	15.1	22.6	39.9	77.5	132.5	200.3
-32.5°	7.0	8.5	8.8	9.6	11.7	15.2	21.6	38.8	74.9	128.5	195.8
-35°	7.0	8.5	8.8	9.5	11.8	15.2	21.2	37.6	70.7	122.0	188.7
-37.5°	7.0	8.4	8.8	9.4	11.9	15.1	21.1	35.7	64.8	113.2	172.6
-40°	7.0	8.4	8.8	9.3	12.0	15.2	20.9	33.1	57.2	104.2	155.6
-42.5°	7.0	8.3	8.8	9.2	12.1	15.3	20.4	29.8	51.7	91.5	137.5
-45°	7.0	8.3	8.8	9.2	12.1	15.3	19.8	27.2	47.1	77.4	119.0
-47.5°	7.0	8.2	8.8	9.2	12.0	15.3	19.1	26.3	41.5	62.6	102.2
-50°	7.0	8.2	8.8	9.3	12.0	15.2	18.8	25.1	34.4	54.5	84.3
-52.5°	7.0	8.1	8.8	9.4	11.9	15.1	18.6	23.7	30.8	45.8	66.3
-55°	7.0	8.0	8.8	9.5	11.8	14.9	18.4	22.3	28.8	36.6	55.7
-57.5°	7.0	8.0	8.8	9.6	11.6	14.6	18.0	21.8	26.7	32.7	44.5
-60°	7.0	7.9	8.8	9.6	11.4	14.3	17.6	21.2	24.9	30.4	35.7
-62.5°	7.0	7.8	8.7	9.6	11.3	14.0	17.1	20.6	24.2	28.0	33.2
-65°	7.0	7.8	8.5	9.6	11.2	13.6	16.6	20.0	23.4	26.8	30.7
-67.5°	7.0	7.7	8.4	9.6	11.1	13.2	16.0	19.2	22.6	25.9	29.2
-70°	7.0	7.6	8.2	9.6	10.9	12.9	15.4	18.5	21.7	24.9	28.2
-72.5°	7.0	7.5	8.1	9.4	10.8	12.5	14.7	17.7	20.8	23.9	27.0
-75°	7.0	7.5	7.9	9.1	10.5	12.1	14.0	16.7	19.9	22.8	25.8
-77.5°	7.0	7.4	7.8	8.9	10.1	11.6	13.2	15.6	18.4	21.5	24.6
-80°	7.0	7.3	7.6	8.6	9.7	11.0	12.4	14.4	16.7	19.3	22.2
-82.5°	7.0	7.2	7.5	8.3	9.3	10.4	11.5	13.1	15.0	17.1	19.4
-85°	7.0	7.2	7.3	8.0	8.8	9.7	10.6	11.7	13.0	14.5	16.2
-87.5°	7.0	7.1	7.2	7.7	8.4	9.0	9.7	10.3	10.9	11.7	12.5
-90°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0



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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°	9.3	9.7	10.2	10.6	11.1	11.5	12.0	12.4	12.4	12.4	12.4
87.5°	6.6	6.1	5.7	5.2	5.2	5.2	5.2	5.2	4.8	4.4	4.0
85°	6.6	6.1	5.8	5.5	5.5	5.5	5.4	5.2	4.8	4.4	4.0
82.5°	6.7	6.6	6.5	6.5	6.3	6.1	5.7	5.2	4.9	4.7	4.5
80°	6.9	7.0	7.0	7.0	6.6	6.2	5.7	5.3	5.2	5.3	5.3
77.5°	7.0	7.0	7.0	7.0	6.7	6.4	6.2	6.2	6.2	6.0	5.7
75°	7.0	7.0	7.0	7.0	6.9	6.9	7.0	7.0	6.7	6.3	5.8
72.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.4	7.9	8.1
70°	7.0	7.0	7.0	7.0	7.0	7.2	8.3	9.8	11.3	12.3	14.1
67.5°	7.0	7.0	7.0	7.1	7.7	9.0	10.7	15.7	21.0	23.2	24.3
65°	7.0	7.0	7.4	8.1	8.7	13.2	18.8	25.1	32.0	33.8	33.1
62.5°	7.0	7.6	8.3	10.1	14.2	19.8	25.9	33.2	41.9	41.2	35.4
60°	7.7	8.4	10.5	14.5	19.3	24.3	31.5	36.6	41.7	43.4	33.1
57.5°	8.4	10.2	13.8	18.3	22.8	26.6	29.5	34.0	36.6	36.6	26.8
55°	9.5	12.4	16.7	21.5	24.7	23.2	25.2	27.6	28.3	26.8	19.5
52.5°	11.1	14.6	19.6	23.7	24.0	21.4	20.5	21.9	21.0	18.2	14.9
50°	12.6	17.0	22.2	24.9	23.6	20.1	17.2	17.6	16.8	14.7	12.9
47.5°	14.2	19.2	24.8	26.2	22.5	20.2	17.5	16.6	15.7	16.7	15.6
45°	15.8	21.1	27.1	25.3	23.0	22.3	20.3	17.5	20.9	21.7	20.5
42.5°	17.0	22.7	26.4	24.5	26.3	26.0	24.3	26.0	27.6	27.9	28.3
40°	18.3	24.1	26.4	29.6	30.5	30.7	33.6	36.2	34.8	36.8	38.6
37.5°	19.4	25.1	29.4	38.3	35.5	38.7	44.2	49.4	49.9	47.1	52.8
35°	20.2	27.1	40.2	49.9	47.9	49.5	59.4	68.1	73.6	68.8	80.4
32.5°	21.8	29.9	53.8	63.7	69.4	70.1	77.5	97.5	113.5	123.9	136.5
30°	25.3	42.3	69.2	80.1	96.5	106.3	111.6	137.1	169.2	263.8	316.4
27.5°	30.0	57.4	84.8	104.8	129.4	148.5	166.2	199.3	312.7	472.2	599.4
25°	34.9	76.6	102.1	135.0	170.1	198.7	226.7	275.6	514.6	800.6	914.0
22.5°	45.2	98.0	125.7	168.4	214.7	251.8	296.9	424.3	719.9	1158.8	1230.6
20°	61.7	117.9	155.1	206.5	263.8	305.9	366.2	570.1	947.7	1299.6	1455.4
17.5°	79.1	139.0	187.2	250.8	321.5	373.7	443.4	699.1	1150.0	1458.6	1616.9
15°	96.9	161.1	218.8	297.9	384.4	458.3	606.8	899.5	1305.9	1627.4	1834.2
12.5°	114.8	183.6	249.7	346.8	451.5	544.3	814.7	1246.9	1599.3	1838.3	2118.1
10°	132.2	206.1	279.7	396.4	521.1	630.5	1049.5	1606.0	1940.4	2157.9	2419.7
7.5°	170.8	241.6	313.0	445.4	591.4	715.8	1299.2	1967.4	2256.3	2447.8	2672.0
5°	213.5	290.3	370.0	512.1	662.5	795.2	1534.6	2319.8	2551.2	2713.4	2883.4
2.5°	255.4	337.5	425.2	577.6	730.0	864.2	1684.9	2520.9	2732.8	2897.7	3052.4
0°	294.6	382.9	478.2	638.7	792.2	928.1	1805.1	2689.2	2885.0	3042.1	3197.2
-2.5°	323.9	420.9	521.8	671.0	813.6	945.7	1792.0	2695.0	2951.4	3171.9	3343.2
-5°	348.2	456.3	562.4	699.7	831.2	958.9	1746.0	2659.5	3014.8	3281.4	3475.9
-7.5°	366.9	488.7	599.8	723.3	842.1	965.1	1729.6	2707.2	3133.0	3375.1	3590.3
-10°	376.9	501.6	607.1	726.2	843.5	964.8	1674.6	2697.8	3245.8	3469.1	3685.7
-12.5°	363.8	496.6	605.2	725.0	841.9	960.0	1557.0	2624.3	3356.2	3568.5	3732.7
-15°	349.1	488.7	598.6	719.8	837.6	950.7	1370.0	2481.6	3375.2	3504.1	3673.3
-17.5°	333.7	478.1	587.0	710.3	831.0	937.0	1098.5	2100.8	3054.2	3338.5	3569.1
-20°	318.5	464.7	570.1	696.7	821.2	900.3	989.8	1673.6	2545.7	3111.3	3386.2



REPORT NUMBER: P574504 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-70-1S-CV2

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	304.1	448.5	550.0	676.5	774.0	846.1	924.4	1270.9	2011.5	2822.7	3091.9
-25°	296.9	425.1	529.4	633.0	724.3	789.8	854.4	941.7	1527.1	2283.1	2782.2
-27.5°	293.3	405.1	500.4	591.4	679.7	733.4	788.8	862.9	1170.0	1760.4	2437.4
-30°	286.6	377.9	470.5	553.3	634.7	686.6	724.4	799.2	894.4	1346.8	1896.2
-32.5°	269.6	349.2	438.5	519.1	592.3	647.7	682.5	750.4	828.2	965.4	1422.5
-35°	248.8	323.5	405.0	484.6	554.0	613.3	661.7	706.6	767.8	839.6	1048.9
-37.5°	230.1	296.2	370.7	448.6	516.4	580.4	639.0	677.1	722.8	779.7	864.8
-40°	209.9	267.3	338.1	410.5	479.7	543.7	602.2	653.3	687.4	740.9	802.8
-42.5°	188.5	243.4	305.1	371.7	438.6	501.8	563.2	616.0	667.9	707.9	757.5
-45°	167.5	218.0	271.7	333.9	395.1	456.9	515.8	575.4	635.5	688.5	724.6
-47.5°	145.6	192.0	242.4	295.6	352.8	409.2	465.9	529.5	596.6	652.7	704.8
-50°	123.4	167.0	212.4	261.6	311.6	362.9	414.6	482.2	547.2	609.3	663.7
-52.5°	102.3	141.0	183.8	228.7	273.8	319.3	371.4	433.2	496.3	557.0	613.9
-55°	80.1	115.9	154.2	195.7	238.2	279.4	329.2	385.8	443.4	502.1	557.8
-57.5°	63.5	90.1	124.7	161.6	201.2	242.4	290.0	338.3	391.2	445.3	495.2
-60°	50.1	68.7	94.8	127.7	162.2	201.8	248.8	295.3	340.9	386.1	433.1
-62.5°	38.1	52.8	70.6	93.5	124.2	157.7	197.4	242.3	291.5	331.0	370.0
-65°	35.4	39.8	52.0	68.8	86.4	114.1	145.8	180.3	220.9	259.3	298.9
-67.5°	32.7	36.8	40.9	47.3	62.7	78.5	94.4	122.5	152.7	179.8	208.1
-70°	31.0	33.9	37.6	41.4	45.2	52.2	66.2	80.2	93.7	109.5	132.3
-72.5°	29.5	31.8	34.5	37.7	41.1	44.6	48.4	52.6	61.0	71.6	81.8
-75°	27.8	29.5	31.7	34.2	36.9	39.6	42.5	45.8	49.0	52.0	55.1
-77.5°	26.2	27.6	29.1	30.7	32.6	34.8	37.2	39.6	41.8	43.9	46.1
-80°	23.9	25.5	26.6	27.9	29.2	30.7	32.2	33.9	35.2	36.7	38.3
-82.5°	20.7	22.0	23.2	24.5	25.6	26.7	27.9	29.0	29.8	30.6	31.4
-85°	17.4	18.5	19.5	20.4	21.0	21.7	22.3	23.0	23.8	24.5	25.1
-87.5°	13.3	14.1	14.9	15.6	16.1	16.6	17.0	17.3	17.9	18.4	19.0
-90°	6.6	6.1	5.7	5.2	5.2	5.2	5.2	5.2	4.8	4.4	4.0



REPORT NUMBER: P574504 (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°	12.4	12.4	12.4	12.4	12.4	13.3	14.2	15.0	15.9	18.1	20.3
87.5°	3.6	3.5	3.5	3.4	3.4	3.1	2.6	2.2	1.8	1.8	1.8
85°	3.6	3.6	3.6	3.6	3.6	3.2	2.7	2.3	1.8	1.8	1.8
82.5°	4.3	4.3	4.1	3.9	3.6	3.2	2.7	2.3	1.8	1.8	1.8
80°	5.2	4.9	4.5	4.1	3.7	3.2	2.8	2.3	1.8	1.8	1.8
77.5°	5.3	4.9	4.5	4.1	3.7	3.2	2.8	2.3	1.9	1.8	1.8
75°	5.4	5.1	5.0	4.8	4.5	4.2	3.9	3.6	3.3	3.3	3.4
72.5°	8.1	7.9	7.7	7.7	7.0	6.4	6.1	5.6	5.0	4.9	5.0
70°	15.2	15.5	14.9	13.2	10.8	8.9	8.0	6.9	5.6	5.4	5.9
67.5°	23.6	21.7	19.4	16.6	13.2	10.6	9.5	8.3	7.1	6.7	6.8
65°	29.6	23.1	19.1	16.1	13.9	11.8	10.3	8.9	7.6	7.0	7.0
62.5°	28.4	20.0	15.5	13.1	11.4	10.2	8.7	7.5	6.4	5.7	5.5
60°	23.8	15.4	11.2	9.8	8.4	7.1	6.6	6.1	5.6	5.2	5.2
57.5°	18.5	12.3	8.7	8.2	7.7	7.2	6.7	6.2	5.7	5.2	5.6
55°	13.8	10.7	8.9	8.6	8.3	7.6	6.9	6.8	6.6	6.3	6.7
52.5°	11.3	10.8	10.5	10.1	9.7	9.2	8.7	8.6	8.4	8.2	8.3
50°	12.7	12.6	12.4	11.9	11.5	11.0	10.5	10.6	10.8	11.0	11.6
47.5°	15.0	15.1	15.4	13.9	14.0	15.1	14.4	14.4	17.1	19.7	21.7
45°	19.1	21.2	21.3	22.0	22.5	24.3	25.1	26.0	31.5	34.0	34.3
42.5°	28.9	31.0	32.8	36.7	36.5	42.2	49.0	51.1	51.6	50.8	50.9
40°	41.8	45.6	56.8	63.1	70.7	77.5	78.5	69.2	68.6	76.1	74.8
37.5°	65.1	81.6	97.3	112.1	119.1	117.6	114.0	116.6	123.7	121.6	124.4
35°	113.0	145.1	155.0	171.3	183.9	163.3	154.0	160.9	156.6	171.7	182.2
32.5°	194.0	238.5	257.6	282.6	308.4	265.3	206.9	259.5	248.7	249.5	266.1
30°	302.9	384.4	457.7	490.5	463.7	433.5	440.8	453.8	432.9	426.4	505.5
27.5°	577.4	613.6	724.0	737.4	650.8	640.0	688.4	689.9	767.5	849.2	923.2
25°	903.3	933.9	1022.5	1014.6	931.5	937.2	1018.3	1066.9	1190.5	1294.3	1442.3
22.5°	1197.3	1216.2	1297.6	1311.2	1277.2	1327.9	1429.7	1563.8	1737.2	1979.3	2503.5
20°	1429.5	1423.1	1508.7	1567.1	1615.4	1720.8	1893.5	2142.7	2530.2	3569.7	5121.9
17.5°	1647.8	1618.9	1726.9	1824.0	1957.7	2143.3	2447.5	3099.7	4457.4	7642.2	11118.6
15°	1963.7	1964.9	1995.0	2155.0	2395.9	2697.2	3238.2	5309.5	9969.1	16264.9	23627.5
12.5°	2310.4	2311.0	2350.9	2541.8	2876.7	3389.3	5483.3	10816.0	19058.3	30592.2	50406.1
10°	2606.2	2634.1	2729.1	3012.4	3483.3	4651.3	8290.8	16708.8	30781.6	54464.5	84489.7
7.5°	2843.0	2887.3	3060.4	3448.5	4099.5	6327.8	12834.6	25965.5	48566.2	81072.5	131013.0
5°	3094.0	3128.6	3345.7	3794.5	4559.1	7499.0	16397.2	33706.1	65746.5	113099.8	187733.1
2.5°	3313.2	3342.2	3592.0	4094.3	4924.7	8068.7	17887.7	38442.4	77877.2	138931.1	236636.6
0°	3469.0	3495.4	3731.9	4233.1	5140.0	8492.6	18924.4	40569.6	84329.3	150884.7	254383.7
-2.5°	3521.8	3503.4	3716.0	4189.1	5049.2	8062.5	17803.3	39065.2	78675.2	139177.5	236313.2
-5°	3574.9	3517.7	3673.9	4105.0	4875.0	7168.9	14846.3	33741.3	69482.6	119853.8	202403.4
-7.5°	3647.2	3551.5	3623.0	3981.7	4650.7	6391.2	12397.5	28170.0	56669.3	95471.9	154130.5
-10°	3756.5	3620.1	3611.3	3876.0	4429.9	5611.7	8907.8	19726.7	42222.3	72479.3	107340.9
-12.5°	3871.1	3764.6	3663.4	3769.9	4167.1	4957.4	7205.6	14839.8	28571.3	47031.6	71495.1
-15°	3929.3	3896.8	3802.2	3774.1	3992.8	4548.0	5578.4	8384.7	17099.1	28584.8	42118.3
-17.5°	3852.2	3971.4	3802.1	3675.6	3764.2	4140.8	4730.3	5953.5	8357.1	14906.8	21763.5
-20°	3643.2	3735.8	3657.8	3579.3	3600.4	3739.0	4071.8	4610.3	5347.9	7092.6	9260.2



REPORT NUMBER: P574504 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-70-1S-CV2

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3269.1	3344.3	3364.5	3451.2	3419.9	3471.1	3604.6	3860.4	4208.8	4676.9	5411.3
-25°	2945.5	2967.2	3085.8	3260.2	3295.7	3262.0	3312.5	3377.1	3585.2	3801.3	4098.7
-27.5°	2650.6	2755.7	2952.5	3139.4	3203.7	3167.4	3147.9	3140.4	3238.2	3301.3	3458.2
-30°	2407.8	2631.8	2827.8	3047.2	3141.8	3145.3	3089.9	3102.7	3121.0	3120.7	3156.2
-32.5°	1998.1	2483.9	2669.2	2857.3	3052.4	3107.0	3113.2	3124.2	3161.2	3159.7	3118.8
-35°	1554.3	2083.5	2528.6	2658.1	2800.7	2977.3	3093.5	3110.9	3140.6	3163.2	3164.4
-37.5°	1090.4	1599.7	2056.6	2435.5	2602.0	2738.6	2942.1	3056.2	3101.2	3166.2	3205.2
-40°	882.8	1033.6	1486.8	1897.2	2226.3	2615.4	2831.5	3016.5	3223.5	3359.9	3430.5
-42.5°	817.0	883.5	948.8	1256.6	1635.7	2020.1	2413.6	2841.6	3197.6	3445.6	3674.0
-45°	764.3	814.3	864.9	923.7	980.2	1284.2	1632.5	2008.6	2451.5	2876.7	3234.6
-47.5°	736.4	761.4	801.0	843.5	885.9	936.0	984.4	1078.9	1405.4	1756.4	2084.1
-50°	708.3	743.4	766.2	788.0	824.8	859.3	886.5	925.4	972.9	1017.3	1050.7
-52.5°	666.9	707.9	743.2	778.3	805.4	828.3	847.9	878.1	907.5	934.4	953.2
-55°	611.2	659.8	705.1	747.8	786.5	823.0	854.9	876.6	898.0	919.2	929.9
-57.5°	546.4	598.5	649.5	696.5	742.7	788.1	825.8	857.4	887.4	914.9	931.7
-60°	478.5	522.3	574.2	628.1	677.4	722.3	766.7	808.2	846.3	878.5	899.7
-62.5°	412.5	455.0	498.4	547.2	600.6	652.1	693.8	735.6	777.1	812.8	837.8
-65°	337.7	374.5	411.6	451.1	492.3	534.7	578.5	621.7	664.1	698.2	721.9
-67.5°	241.4	275.7	309.0	342.0	373.3	405.2	438.6	472.4	506.2	533.5	554.1
-70°	154.7	176.1	196.6	219.1	244.8	270.5	295.5	319.1	341.0	358.7	372.7
-72.5°	91.6	100.2	109.7	125.4	140.6	156.8	172.9	187.8	201.4	212.9	222.4
-75°	58.2	62.5	69.5	75.8	81.4	88.3	95.8	102.9	109.7	116.7	123.2
-77.5°	48.5	50.9	53.2	55.3	57.4	60.4	63.8	67.2	70.7	75.7	81.0
-80°	39.9	41.7	43.6	45.3	47.0	48.9	50.9	52.8	54.7	58.1	61.6
-82.5°	32.2	33.5	34.9	36.2	37.5	39.1	40.5	41.9	43.2	45.6	48.0
-85°	25.7	26.3	27.0	27.6	28.3	29.9	31.4	33.0	34.5	37.0	39.3
-87.5°	19.6	19.8	20.0	20.2	20.4	21.4	22.4	23.4	24.4	26.7	29.0
-90°	3.6	3.2	2.7	2.3	1.8	1.8	1.8	1.8	1.8	1.4	0.9



REPORT NUMBER: P574504 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-70-1S-CV2

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	22.5	24.7	29.1	33.5	29.1	24.7	22.5	20.3	18.1	15.9	15.0
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.2
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.3
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.3
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.3
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	2.3
75°	3.5	3.6	3.6	3.6	3.6	3.6	3.5	3.4	3.3	3.3	3.6
72.5°	5.1	5.2	5.2	5.2	5.2	5.2	5.1	5.0	4.9	5.0	5.6
70°	6.4	6.9	7.0	7.0	7.0	6.9	6.4	5.9	5.4	5.6	6.9
67.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.8	6.7	7.1	8.3
65°	7.0	7.0	6.2	5.2	6.2	7.0	7.0	7.0	7.0	7.6	8.9
62.5°	5.4	5.3	5.2	5.2	5.2	5.3	5.4	5.5	5.7	6.4	7.5
60°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.6	6.1
57.5°	6.2	6.7	7.0	7.0	7.0	6.7	6.2	5.6	5.2	5.7	6.2
55°	6.9	7.0	7.7	8.8	7.7	7.0	6.9	6.7	6.3	6.6	6.8
52.5°	8.5	8.7	9.4	10.6	9.4	8.7	8.5	8.3	8.2	8.4	8.6
50°	12.6	13.5	14.0	14.1	14.0	13.5	12.6	11.6	11.0	10.8	10.6
47.5°	22.7	22.8	23.3	24.7	23.3	22.8	22.7	21.7	19.7	17.1	14.4
45°	35.5	36.2	36.8	37.1	36.8	36.2	35.5	34.3	34.0	31.5	26.0
42.5°	53.4	55.1	56.0	56.5	56.0	55.1	53.4	50.9	50.8	51.6	51.1
40°	76.1	76.1	75.4	75.9	75.4	76.1	76.1	74.8	76.1	68.6	69.2
37.5°	130.4	132.8	132.4	134.1	132.4	132.8	130.4	124.4	121.6	123.7	116.6
35°	186.0	186.0	183.0	180.0	183.0	186.0	186.0	182.2	171.7	156.6	160.9
32.5°	265.3	273.9	277.6	284.1	277.6	273.9	265.3	266.1	249.5	248.7	259.5
30°	539.6	548.4	514.9	520.5	514.9	548.4	539.6	505.5	426.4	432.9	453.8
27.5°	970.8	1006.2	1013.3	1012.8	1013.3	1006.2	970.8	923.2	849.2	767.5	689.9
25°	1566.2	1632.1	1647.8	1635.7	1647.8	1632.1	1566.2	1442.3	1294.3	1190.5	1066.9
22.5°	3104.4	3428.6	3662.1	3634.9	3662.1	3428.6	3104.4	2503.5	1979.3	1737.2	1563.8
20°	7513.8	8966.9	8849.0	8026.7	8849.0	8966.9	7513.8	5121.9	3569.7	2530.2	2142.7
17.5°	16824.4	22240.3	26241.3	27441.6	26241.3	22240.3	16824.4	11118.6	7642.2	4457.4	3099.7
15°	35862.9	47249.8	53680.5	54452.7	53680.5	47249.8	35862.9	23627.5	16264.9	9969.1	5309.5
12.5°	70231.6	91408.5	106880.3	116546.6	106880.3	91408.5	70231.6	50406.1	30592.2	19058.3	10816.0
10°	122673.2	162042.5	195941.0	209669.4	195941.0	162042.5	122673.2	84489.7	54464.5	30781.6	16708.8
7.5°	194519.7	256648.6	302557.1	322209.6	302557.1	256648.6	194519.7	131013.0	81072.5	48566.2	25965.5
5°	281852.5	375280.8	435280.0	461683.3	435280.0	375280.8	281852.5	187733.1	113099.8	65746.5	33706.1
2.5°	350645.8	469087.6	550816.3	581833.0	550816.3	469087.6	350645.8	236636.6	138931.1	77877.2	38442.4
0°	378743.5	500165.4	590180.9	647021.8	590180.9	500165.4	378743.5	254383.7	150884.7	84329.3	40569.6
-2.5°	353811.1	465525.5	543111.8	578203.4	543111.8	465525.5	353811.1	236313.2	139177.5	78675.2	39065.2
-5°	297058.4	389733.9	466524.8	488551.5	466524.8	389733.9	297058.4	202403.4	119853.8	69482.6	33741.3
-7.5°	226137.2	296319.0	350040.2	361122.3	350040.2	296319.0	226137.2	154130.5	95471.9	56669.3	28170.0
-10°	154503.6	202661.1	238102.4	244356.0	238102.4	202661.1	154503.6	107340.9	72479.3	42222.3	19726.7
-12.5°	96058.4	123966.7	142682.7	151362.1	142682.7	123966.7	96058.4	71495.1	47031.6	28571.3	14839.8
-15°	58289.4	72072.7	80190.1	84745.7	80190.1	72072.7	58289.4	42118.3	28584.8	17099.1	8384.7
-17.5°	31281.1	38496.1	42936.3	44961.4	42936.3	38496.1	31281.1	21763.5	14906.8	8357.1	5953.5
-20°	14095.6	17085.1	18577.0	18661.4	18577.0	17085.1	14095.6	9260.2	7092.6	5347.9	4610.3



REPORT NUMBER: P574504 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	6401.4	7127.9	7570.4	7627.9	7570.4	7127.9	6401.4	5411.3	4676.9	4208.8	3860.4
-25°	4371.0	4562.9	4664.7	4688.2	4664.7	4562.9	4371.0	4098.7	3801.3	3585.2	3377.1
-27.5°	3570.8	3646.3	3676.7	3691.4	3676.7	3646.3	3570.8	3458.2	3301.3	3238.2	3140.4
-30°	3175.8	3194.9	3197.4	3206.1	3197.4	3194.9	3175.8	3156.2	3120.7	3121.0	3102.7
-32.5°	3086.9	3075.2	3068.0	3063.2	3068.0	3075.2	3086.9	3118.8	3159.7	3161.2	3124.2
-35°	3158.4	3157.2	3157.5	3160.2	3157.5	3157.2	3158.4	3164.4	3163.2	3140.6	3110.9
-37.5°	3231.3	3235.7	3228.1	3225.5	3228.1	3235.7	3231.3	3205.2	3166.2	3101.2	3056.2
-40°	3450.0	3506.2	3572.0	3603.1	3572.0	3506.2	3450.0	3430.5	3359.9	3223.5	3016.5
-42.5°	3737.1	3799.3	3841.0	3844.9	3841.0	3799.3	3737.1	3674.0	3445.6	3197.6	2841.6
-45°	3434.9	3579.3	3660.0	3679.0	3660.0	3579.3	3434.9	3234.6	2876.7	2451.5	2008.6
-47.5°	2350.9	2576.0	2716.0	2756.1	2716.0	2576.0	2350.9	2084.1	1756.4	1405.4	1078.9
-50°	1074.0	1091.6	1100.8	1102.8	1100.8	1091.6	1074.0	1050.7	1017.3	972.9	925.4
-52.5°	969.8	985.5	995.3	1000.4	995.3	985.5	969.8	953.2	934.4	907.5	878.1
-55°	939.8	949.8	955.8	959.9	955.8	949.8	939.8	929.9	919.2	898.0	876.6
-57.5°	947.2	961.7	968.8	972.2	968.8	961.7	947.2	931.7	914.9	887.4	857.4
-60°	919.4	937.6	946.4	951.1	946.4	937.6	919.4	899.7	878.5	846.3	808.2
-62.5°	861.6	883.7	894.4	899.8	894.4	883.7	861.6	837.8	812.8	777.1	735.6
-65°	742.7	760.5	769.9	774.6	769.9	760.5	742.7	721.9	698.2	664.1	621.7
-67.5°	571.9	586.6	596.0	601.6	596.0	586.6	571.9	554.1	533.5	506.2	472.4
-70°	384.3	393.4	397.5	398.8	397.5	393.4	384.3	372.7	358.7	341.0	319.1
-72.5°	230.4	236.8	239.2	239.9	239.2	236.8	230.4	222.4	212.9	201.4	187.8
-75°	129.2	134.6	136.5	137.7	136.5	134.6	129.2	123.2	116.7	109.7	102.9
-77.5°	86.1	91.1	92.6	93.6	92.6	91.1	86.1	81.0	75.7	70.7	67.2
-80°	65.1	68.5	70.5	72.3	70.5	68.5	65.1	61.6	58.1	54.7	52.8
-82.5°	50.4	52.8	53.8	54.7	53.8	52.8	50.4	48.0	45.6	43.2	41.9
-85°	41.7	44.0	44.1	44.1	44.1	44.0	41.7	39.3	37.0	34.5	33.0
-87.5°	31.2	33.5	35.3	37.1	35.3	33.5	31.2	29.0	26.7	24.4	23.4
-90°	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.9	1.4	1.8	1.8



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	14.2	13.3	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
87.5°	2.6	3.1	3.4	3.4	3.5	3.5	3.6	4.0	4.4	4.8	5.2
85°	2.7	3.2	3.6	3.6	3.6	3.6	3.6	4.0	4.4	4.8	5.2
82.5°	2.7	3.2	3.6	3.9	4.1	4.3	4.3	4.5	4.7	4.9	5.2
80°	2.8	3.2	3.7	4.1	4.5	4.9	5.2	5.3	5.3	5.2	5.3
77.5°	2.8	3.2	3.7	4.1	4.5	4.9	5.3	5.7	6.0	6.2	6.2
75°	3.9	4.2	4.5	4.8	5.0	5.1	5.4	5.8	6.3	6.7	7.0
72.5°	6.1	6.4	7.0	7.7	7.7	7.9	8.1	8.1	7.9	7.4	7.0
70°	8.0	8.9	10.8	13.2	14.9	15.5	15.2	14.1	12.3	11.3	9.8
67.5°	9.5	10.6	13.2	16.6	19.4	21.7	23.6	24.3	23.2	21.0	15.7
65°	10.3	11.8	13.9	16.1	19.1	23.1	29.6	33.1	33.8	32.0	25.1
62.5°	8.7	10.2	11.4	13.1	15.5	20.0	28.4	35.4	41.2	41.9	33.2
60°	6.6	7.1	8.4	9.8	11.2	15.4	23.8	33.1	43.4	41.7	36.6
57.5°	6.7	7.2	7.7	8.2	8.7	12.3	18.5	26.8	36.6	36.6	34.0
55°	6.9	7.6	8.3	8.6	8.9	10.7	13.8	19.5	26.8	28.3	27.6
52.5°	8.7	9.2	9.7	10.1	10.5	10.8	11.3	14.9	18.2	21.0	21.9
50°	10.5	11.0	11.5	11.9	12.4	12.6	12.7	12.9	14.7	16.8	17.6
47.5°	14.4	15.1	14.0	13.9	15.4	15.1	15.0	15.6	16.7	15.7	16.6
45°	25.1	24.3	22.5	22.0	21.3	21.2	19.1	20.5	21.7	20.9	17.5
42.5°	49.0	42.2	36.5	36.7	32.8	31.0	28.9	28.3	27.9	27.6	26.0
40°	78.5	77.5	70.7	63.1	56.8	45.6	41.8	38.6	36.8	34.8	36.2
37.5°	114.0	117.6	119.1	112.1	97.3	81.6	65.1	52.8	47.1	49.9	49.4
35°	154.0	163.3	183.9	171.3	155.0	145.1	113.0	80.4	68.8	73.6	68.1
32.5°	206.9	265.3	308.4	282.6	257.6	238.5	194.0	136.5	123.9	113.5	97.5
30°	440.8	433.5	463.7	490.5	457.7	384.4	302.9	316.4	263.8	169.2	137.1
27.5°	688.4	640.0	650.8	737.4	724.0	613.6	577.4	599.4	472.2	312.7	199.3
25°	1018.3	937.2	931.5	1014.6	1022.5	933.9	903.3	914.0	800.6	514.6	275.6
22.5°	1429.7	1327.9	1277.2	1311.2	1297.6	1216.2	1197.3	1230.6	1158.8	719.9	424.3
20°	1893.5	1720.8	1615.4	1567.1	1508.7	1423.1	1429.5	1455.4	1299.6	947.7	570.1
17.5°	2447.5	2143.3	1957.7	1824.0	1726.9	1618.9	1647.8	1616.9	1458.6	1150.0	699.1
15°	3238.2	2697.2	2395.9	2155.0	1995.0	1964.9	1963.7	1834.2	1627.4	1305.9	899.5
12.5°	5483.3	3389.3	2876.7	2541.8	2350.9	2311.0	2310.4	2118.1	1838.3	1599.3	1246.9
10°	8290.8	4651.3	3483.3	3012.4	2729.1	2634.1	2606.2	2419.7	2157.9	1940.4	1606.0
7.5°	12834.6	6327.8	4099.5	3448.5	3060.4	2887.3	2843.0	2672.0	2447.8	2256.3	1967.4
5°	16397.2	7499.0	4559.1	3794.5	3345.7	3128.6	3094.0	2883.4	2713.4	2551.2	2319.8
2.5°	17887.7	8068.7	4924.7	4094.3	3592.0	3342.2	3313.2	3052.4	2897.7	2732.8	2520.9
0°	18924.4	8492.6	5140.0	4233.1	3731.9	3495.4	3469.0	3197.2	3042.1	2885.0	2689.2
-2.5°	17803.3	8062.5	5049.2	4189.1	3716.0	3503.4	3521.8	3343.2	3171.9	2951.4	2695.0
-5°	14846.3	7168.9	4875.0	4105.0	3673.9	3517.7	3574.9	3475.9	3281.4	3014.8	2659.5
-7.5°	12397.5	6391.2	4650.7	3981.7	3623.0	3551.5	3647.2	3590.3	3375.1	3133.0	2707.2
-10°	8907.8	5611.7	4429.9	3876.0	3611.3	3620.1	3756.5	3685.7	3469.1	3245.8	2697.8
-12.5°	7205.6	4957.4	4167.1	3769.9	3663.4	3764.6	3871.1	3732.7	3568.5	3356.2	2624.3
-15°	5578.4	4548.0	3992.8	3774.1	3802.2	3896.8	3929.3	3673.3	3504.1	3375.2	2481.6
-17.5°	4730.3	4140.8	3764.2	3675.6	3802.1	3971.4	3852.2	3569.1	3338.5	3054.2	2100.8
-20°	4071.8	3739.0	3600.4	3579.3	3657.8	3735.8	3643.2	3386.2	3111.3	2545.7	1673.6



REPORT NUMBER: P574504 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	3604.6	3471.1	3419.9	3451.2	3364.5	3344.3	3269.1	3091.9	2822.7	2011.5	1270.9
-25°	3312.5	3262.0	3295.7	3260.2	3085.8	2967.2	2945.5	2782.2	2283.1	1527.1	941.7
-27.5°	3147.9	3167.4	3203.7	3139.4	2952.5	2755.7	2650.6	2437.4	1760.4	1170.0	862.9
-30°	3089.9	3145.3	3141.8	3047.2	2827.8	2631.8	2407.8	1896.2	1346.8	894.4	799.2
-32.5°	3113.2	3107.0	3052.4	2857.3	2669.2	2483.9	1998.1	1422.5	965.4	828.2	750.4
-35°	3093.5	2977.3	2800.7	2658.1	2528.6	2083.5	1554.3	1048.9	839.6	767.8	706.6
-37.5°	2942.1	2738.6	2602.0	2435.5	2056.6	1599.7	1090.4	864.8	779.7	722.8	677.1
-40°	2831.5	2615.4	2226.3	1897.2	1486.8	1033.6	882.8	802.8	740.9	687.4	653.3
-42.5°	2413.6	2020.1	1635.7	1256.6	948.8	883.5	817.0	757.5	707.9	667.9	616.0
-45°	1632.5	1284.2	980.2	923.7	864.9	814.3	764.3	724.6	688.5	635.5	575.4
-47.5°	984.4	936.0	885.9	843.5	801.0	761.4	736.4	704.8	652.7	596.6	529.5
-50°	886.5	859.3	824.8	788.0	766.2	743.4	708.3	663.7	609.3	547.2	482.2
-52.5°	847.9	828.3	805.4	778.3	743.2	707.9	666.9	613.9	557.0	496.3	433.2
-55°	854.9	823.0	786.5	747.8	705.1	659.8	611.2	557.8	502.1	443.4	385.8
-57.5°	825.8	788.1	742.7	696.5	649.5	598.5	546.4	495.2	445.3	391.2	338.3
-60°	766.7	722.3	677.4	628.1	574.2	522.3	478.5	433.1	386.1	340.9	295.3
-62.5°	693.8	652.1	600.6	547.2	498.4	455.0	412.5	370.0	331.0	291.5	242.3
-65°	578.5	534.7	492.3	451.1	411.6	374.5	337.7	298.9	259.3	220.9	180.3
-67.5°	438.6	405.2	373.3	342.0	309.0	275.7	241.4	208.1	179.8	152.7	122.5
-70°	295.5	270.5	244.8	219.1	196.6	176.1	154.7	132.3	109.5	93.7	80.2
-72.5°	172.9	156.8	140.6	125.4	109.7	100.2	91.6	81.8	71.6	61.0	52.6
-75°	95.8	88.3	81.4	75.8	69.5	62.5	58.2	55.1	52.0	49.0	45.8
-77.5°	63.8	60.4	57.4	55.3	53.2	50.9	48.5	46.1	43.9	41.8	39.6
-80°	50.9	48.9	47.0	45.3	43.6	41.7	39.9	38.3	36.7	35.2	33.9
-82.5°	40.5	39.1	37.5	36.2	34.9	33.5	32.2	31.4	30.6	29.8	29.0
-85°	31.4	29.9	28.3	27.6	27.0	26.3	25.7	25.1	24.5	23.8	23.0
-87.5°	22.4	21.4	20.4	20.2	20.0	19.8	19.6	19.0	18.4	17.9	17.3
-90°	1.8	1.8	1.8	2.3	2.7	3.2	3.6	4.0	4.4	4.8	5.2



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	12.0	11.5	11.1	10.6	10.2	9.7	9.3	8.8	8.8	8.8	8.8
87.5°	5.2	5.2	5.2	5.2	5.7	6.1	6.6	7.0	7.2	7.3	7.4
85°	5.4	5.5	5.5	5.5	5.8	6.1	6.6	7.0	7.4	7.6	7.8
82.5°	5.7	6.1	6.3	6.5	6.5	6.6	6.7	7.0	7.4	7.9	8.2
80°	5.7	6.2	6.6	7.0	7.0	7.0	6.9	7.0	7.2	7.6	8.1
77.5°	6.2	6.4	6.7	7.0	7.0	7.0	7.0	7.0	7.1	7.3	7.7
75°	7.0	6.9	6.9	7.0	7.0	7.0	7.0	7.1	7.2	7.0	7.3
72.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.2	7.4	7.4	7.1
70°	8.3	7.2	7.0	7.0	7.0	7.0	7.0	7.2	7.7	7.8	7.6
67.5°	10.7	9.0	7.7	7.1	7.0	7.0	7.0	7.3	7.7	8.2	8.0
65°	18.8	13.2	8.7	8.1	7.4	7.0	7.0	7.4	7.8	8.2	8.5
62.5°	25.9	19.8	14.2	10.1	8.3	7.6	7.0	7.5	7.9	8.3	8.7
60°	31.5	24.3	19.3	14.5	10.5	8.4	7.7	7.5	7.9	8.4	8.8
57.5°	29.5	26.6	22.8	18.3	13.8	10.2	8.4	7.9	8.0	8.4	8.8
55°	25.2	23.2	24.7	21.5	16.7	12.4	9.5	8.4	8.2	8.5	8.8
52.5°	20.5	21.4	24.0	23.7	19.6	14.6	11.1	8.8	8.4	8.6	8.8
50°	17.2	20.1	23.6	24.9	22.2	17.0	12.6	9.8	8.7	8.7	8.9
47.5°	17.5	20.2	22.5	26.2	24.8	19.2	14.2	10.8	8.8	8.8	9.0
45°	20.3	22.3	23.0	25.3	27.1	21.1	15.8	11.6	9.4	9.0	9.2
42.5°	24.3	26.0	26.3	24.5	26.4	22.7	17.0	12.6	9.9	9.2	9.4
40°	33.6	30.7	30.5	29.6	26.4	24.1	18.3	13.5	10.3	9.6	9.6
37.5°	44.2	38.7	35.5	38.3	29.4	25.1	19.4	14.1	11.3	10.4	9.9
35°	59.4	49.5	47.9	49.9	40.2	27.1	20.2	14.7	12.7	11.1	10.3
32.5°	77.5	70.1	69.4	63.7	53.8	29.9	21.8	16.9	14.2	12.0	10.6
30°	111.6	106.3	96.5	80.1	69.2	42.3	25.3	19.3	15.8	12.8	11.1
27.5°	166.2	148.5	129.4	104.8	84.8	57.4	30.0	21.7	17.5	13.8	11.8
25°	226.7	198.7	170.1	135.0	102.1	76.6	34.9	24.3	19.4	15.2	12.5
22.5°	296.9	251.8	214.7	168.4	125.7	98.0	45.2	28.3	21.5	16.5	13.2
20°	366.2	305.9	263.8	206.5	155.1	117.9	61.7	32.3	23.5	17.9	13.9
17.5°	443.4	373.7	321.5	250.8	187.2	139.0	79.1	36.2	25.6	19.3	14.5
15°	606.8	458.3	384.4	297.9	218.8	161.1	96.9	40.1	27.6	20.6	15.2
12.5°	814.7	544.3	451.5	346.8	249.7	183.6	114.8	43.7	29.6	22.0	16.0
10°	1049.5	630.5	521.1	396.4	279.7	206.1	132.2	49.4	33.0	23.4	16.7
7.5°	1299.2	715.8	591.4	445.4	313.0	241.6	170.8	60.0	36.8	24.8	17.5
5°	1534.6	795.2	662.5	512.1	370.0	290.3	213.5	70.8	40.5	26.0	18.2
2.5°	1684.9	864.2	730.0	577.6	425.2	337.5	255.4	81.6	44.2	27.2	18.8
0°	1805.1	928.1	792.2	638.7	478.2	382.9	294.6	91.8	47.7	28.2	19.4
-2.5°	1792.0	945.7	813.6	671.0	521.8	420.9	323.9	114.7	62.1	36.8	23.2
-5°	1746.0	958.9	831.2	699.7	562.4	456.3	348.2	136.3	75.8	45.0	26.9
-7.5°	1729.6	965.1	842.1	723.3	599.8	488.7	366.9	155.9	88.6	52.6	30.3
-10°	1674.6	964.8	843.5	726.2	607.1	501.6	376.9	173.3	100.2	59.5	33.3
-12.5°	1557.0	960.0	841.9	725.0	605.2	496.6	363.8	185.0	110.3	65.3	35.9
-15°	1370.0	950.7	837.6	719.8	598.6	488.7	349.1	193.0	118.5	70.5	37.9
-17.5°	1098.5	937.0	831.0	710.3	587.0	478.1	333.7	198.8	125.3	75.2	40.1
-20°	989.8	900.3	821.2	696.7	570.1	464.7	318.5	202.2	130.3	78.5	42.1



REPORT NUMBER: P574504 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-70-1S-CV2

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	924.4	846.1	774.0	676.5	550.0	448.5	304.1	203.1	133.4	80.3	43.1
-25°	854.4	789.8	724.3	633.0	529.4	425.1	296.9	201.4	134.7	80.6	43.1
-27.5°	788.8	733.4	679.7	591.4	500.4	405.1	293.3	202.0	134.3	79.2	42.1
-30°	724.4	686.6	634.7	553.3	470.5	377.9	286.6	200.3	132.5	77.5	39.9
-32.5°	682.5	647.7	592.3	519.1	438.5	349.2	269.6	195.8	128.5	74.9	38.8
-35°	661.7	613.3	554.0	484.6	405.0	323.5	248.8	188.7	122.0	70.7	37.6
-37.5°	639.0	580.4	516.4	448.6	370.7	296.2	230.1	172.6	113.2	64.8	35.7
-40°	602.2	543.7	479.7	410.5	338.1	267.3	209.9	155.6	104.2	57.2	33.1
-42.5°	563.2	501.8	438.6	371.7	305.1	243.4	188.5	137.5	91.5	51.7	29.8
-45°	515.8	456.9	395.1	333.9	271.7	218.0	167.5	119.0	77.4	47.1	27.2
-47.5°	465.9	409.2	352.8	295.6	242.4	192.0	145.6	102.2	62.6	41.5	26.3
-50°	414.6	362.9	311.6	261.6	212.4	167.0	123.4	84.3	54.5	34.4	25.1
-52.5°	371.4	319.3	273.8	228.7	183.8	141.0	102.3	66.3	45.8	30.8	23.7
-55°	329.2	279.4	238.2	195.7	154.2	115.9	80.1	55.7	36.6	28.8	22.3
-57.5°	290.0	242.4	201.2	161.6	124.7	90.1	63.5	44.5	32.7	26.7	21.8
-60°	248.8	201.8	162.2	127.7	94.8	68.7	50.1	35.7	30.4	24.9	21.2
-62.5°	197.4	157.7	124.2	93.5	70.6	52.8	38.1	33.2	28.0	24.2	20.6
-65°	145.8	114.1	86.4	68.8	52.0	39.8	35.4	30.7	26.8	23.4	20.0
-67.5°	94.4	78.5	62.7	47.3	40.9	36.8	32.7	29.2	25.9	22.6	19.2
-70°	66.2	52.2	45.2	41.4	37.6	33.9	31.0	28.2	24.9	21.7	18.5
-72.5°	48.4	44.6	41.1	37.7	34.5	31.8	29.5	27.0	23.9	20.8	17.7
-75°	42.5	39.6	36.9	34.2	31.7	29.5	27.8	25.8	22.8	19.9	16.7
-77.5°	37.2	34.8	32.6	30.7	29.1	27.6	26.2	24.6	21.5	18.4	15.6
-80°	32.2	30.7	29.2	27.9	26.6	25.5	23.9	22.2	19.3	16.7	14.4
-82.5°	27.9	26.7	25.6	24.5	23.2	22.0	20.7	19.4	17.1	15.0	13.1
-85°	22.3	21.7	21.0	20.4	19.5	18.5	17.4	16.2	14.5	13.0	11.7
-87.5°	17.0	16.6	16.1	15.6	14.9	14.1	13.3	12.5	11.7	10.9	10.3
-90°	5.2	5.2	5.2	5.2	5.7	6.1	6.6	7.0	7.0	7.0	7.0



REPORT NUMBER: P574504 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	8.8	8.4	7.9	7.5	7.0	7.0	7.0
87.5°	7.5	7.4	7.3	7.2	7.2	7.1	7.0
85°	7.9	7.8	7.6	7.5	7.3	7.2	7.0
82.5°	8.4	8.2	7.9	7.7	7.5	7.2	7.0
80°	8.7	8.6	8.2	7.9	7.6	7.3	7.0
77.5°	8.3	8.7	8.6	8.2	7.8	7.4	7.0
75°	7.9	8.4	8.8	8.4	7.9	7.5	7.0
72.5°	7.5	8.2	8.6	8.6	8.1	7.5	7.0
70°	7.2	7.9	8.5	8.8	8.2	7.6	7.0
67.5°	7.6	7.7	8.4	8.7	8.4	7.7	7.0
65°	8.0	7.8	8.3	8.7	8.5	7.8	7.0
62.5°	8.4	8.0	8.2	8.7	8.7	7.8	7.0
60°	8.8	8.3	8.1	8.7	8.8	7.9	7.0
57.5°	8.8	8.5	8.3	8.7	8.8	8.0	7.0
55°	8.8	8.7	8.4	8.7	8.8	8.0	7.0
52.5°	8.8	8.8	8.5	8.7	8.8	8.1	7.0
50°	8.8	8.8	8.6	8.7	8.8	8.2	7.0
47.5°	8.8	8.8	8.7	8.7	8.8	8.2	7.0
45°	9.0	8.8	8.7	8.7	8.8	8.3	7.0
42.5°	9.1	8.8	8.8	8.8	8.8	8.3	7.0
40°	9.3	8.8	8.8	8.8	8.8	8.4	7.0
37.5°	9.6	8.8	8.8	8.8	8.8	8.4	7.0
35°	9.8	8.9	8.8	8.8	8.8	8.5	7.0
32.5°	10.1	9.1	8.8	8.8	8.8	8.5	7.0
30°	10.4	9.3	8.8	8.8	8.8	8.6	7.0
27.5°	10.7	9.5	8.9	8.8	8.8	8.6	7.0
25°	11.0	9.7	9.0	8.8	8.8	8.6	7.0
22.5°	11.3	9.9	9.1	8.8	8.8	8.7	7.0
20°	11.7	10.1	9.2	8.8	8.8	8.7	7.0
17.5°	12.0	10.3	9.4	8.8	8.8	8.7	7.0
15°	12.3	10.4	9.5	8.8	8.8	8.7	7.0
12.5°	12.6	10.5	9.7	8.8	8.8	8.8	7.0
10°	13.0	10.5	9.9	8.8	8.8	8.8	7.0
7.5°	13.3	10.6	10.1	8.8	8.8	8.8	7.0
5°	13.6	10.6	10.3	8.8	8.8	8.8	7.0
2.5°	13.9	10.6	10.4	8.8	8.8	8.8	7.0
0°	14.1	10.6	10.6	8.8	8.8	8.8	7.0
-2.5°	15.5	11.2	10.8	8.9	8.8	8.8	7.0
-5°	16.8	11.8	10.9	9.0	8.8	8.8	7.0
-7.5°	18.1	12.3	11.0	9.1	8.8	8.8	7.0
-10°	19.2	12.8	11.1	9.2	8.8	8.8	7.0
-12.5°	20.1	13.3	11.2	9.3	8.8	8.8	7.0
-15°	20.9	13.7	11.3	9.4	8.8	8.7	7.0
-17.5°	21.5	14.0	11.4	9.5	8.8	8.7	7.0
-20°	22.1	14.3	11.4	9.6	8.8	8.7	7.0



REPORT NUMBER: P574504 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-70-1S-CV2

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	22.8	14.4	11.4	9.6	8.8	8.7	7.0
-25°	23.2	14.7	11.5	9.6	8.8	8.6	7.0
-27.5°	23.1	15.0	11.5	9.6	8.8	8.6	7.0
-30°	22.6	15.1	11.5	9.6	8.8	8.6	7.0
-32.5°	21.6	15.2	11.7	9.6	8.8	8.5	7.0
-35°	21.2	15.2	11.8	9.5	8.8	8.5	7.0
-37.5°	21.1	15.1	11.9	9.4	8.8	8.4	7.0
-40°	20.9	15.2	12.0	9.3	8.8	8.4	7.0
-42.5°	20.4	15.3	12.1	9.2	8.8	8.3	7.0
-45°	19.8	15.3	12.1	9.2	8.8	8.3	7.0
-47.5°	19.1	15.3	12.0	9.2	8.8	8.2	7.0
-50°	18.8	15.2	12.0	9.3	8.8	8.2	7.0
-52.5°	18.6	15.1	11.9	9.4	8.8	8.1	7.0
-55°	18.4	14.9	11.8	9.5	8.8	8.0	7.0
-57.5°	18.0	14.6	11.6	9.6	8.8	8.0	7.0
-60°	17.6	14.3	11.4	9.6	8.8	7.9	7.0
-62.5°	17.1	14.0	11.3	9.6	8.7	7.8	7.0
-65°	16.6	13.6	11.2	9.6	8.5	7.8	7.0
-67.5°	16.0	13.2	11.1	9.6	8.4	7.7	7.0
-70°	15.4	12.9	10.9	9.6	8.2	7.6	7.0
-72.5°	14.7	12.5	10.8	9.4	8.1	7.5	7.0
-75°	14.0	12.1	10.5	9.1	7.9	7.5	7.0
-77.5°	13.2	11.6	10.1	8.9	7.8	7.4	7.0
-80°	12.4	11.0	9.7	8.6	7.6	7.3	7.0
-82.5°	11.5	10.4	9.3	8.3	7.5	7.2	7.0
-85°	10.6	9.7	8.8	8.0	7.3	7.2	7.0
-87.5°	9.7	9.0	8.4	7.7	7.2	7.1	7.0
-90°	7.0	7.0	7.0	7.0	7.0	7.0	7.0

(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

