

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: P701492 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-40-80-3S-CV2-S**

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701492 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-18)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0640L-40-80-3S-CV2-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 3S BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

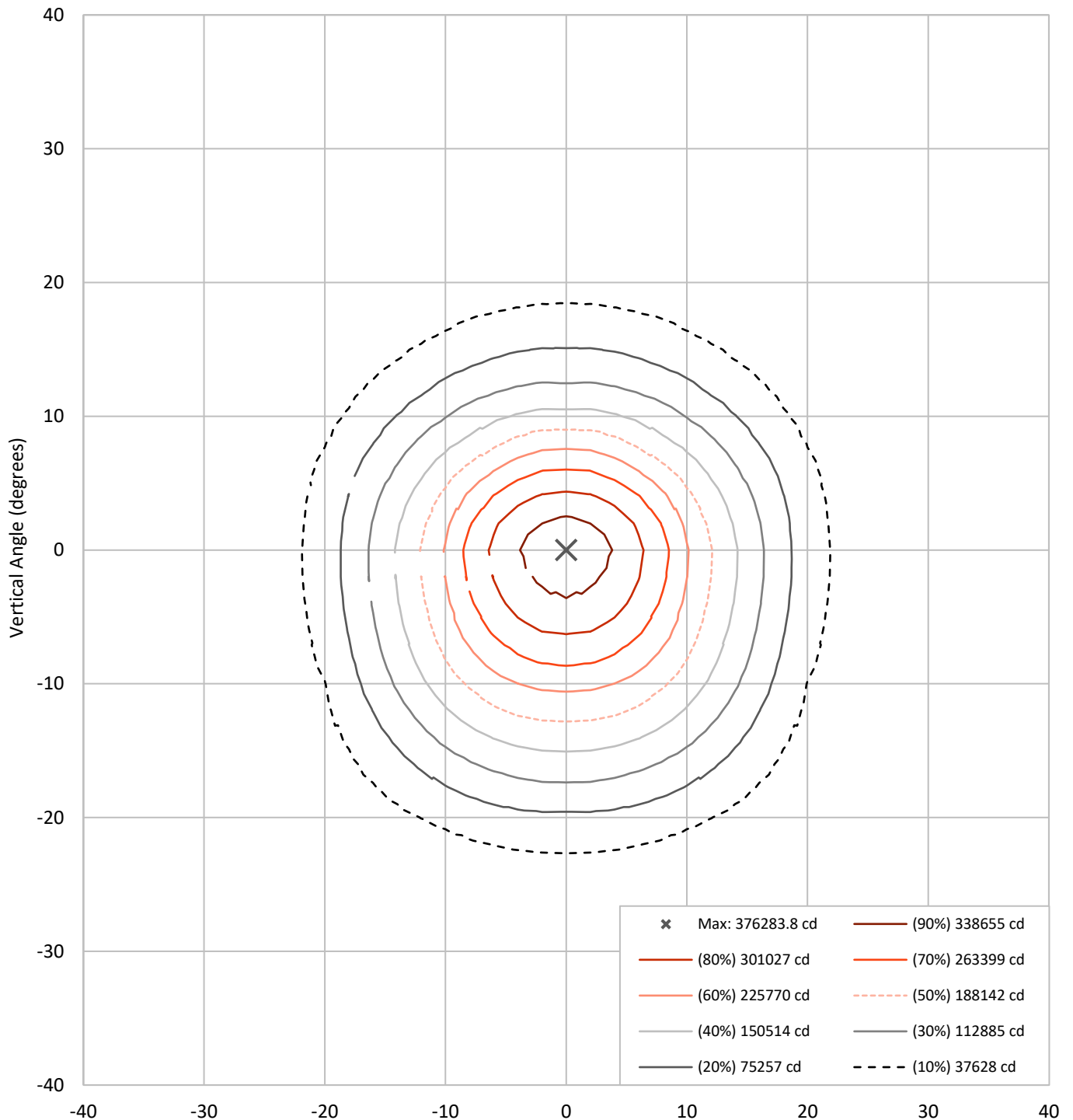
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	74273.9 lumens	Max Intensity:	376283.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	112.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	24.2°H x 21.8°V	Field Angle (10%):	43.8°H x 40.9°V
Beam Lumens:	33654.5 lumens	Field Lumens:	63688.5 lumens
Beam Efficiency:	45.3%	Field Efficiency:	85.7%

Input Watts (W): 658
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-LS-08-0640L-40-80-3S-CV2-S

Iso-Candela Plot





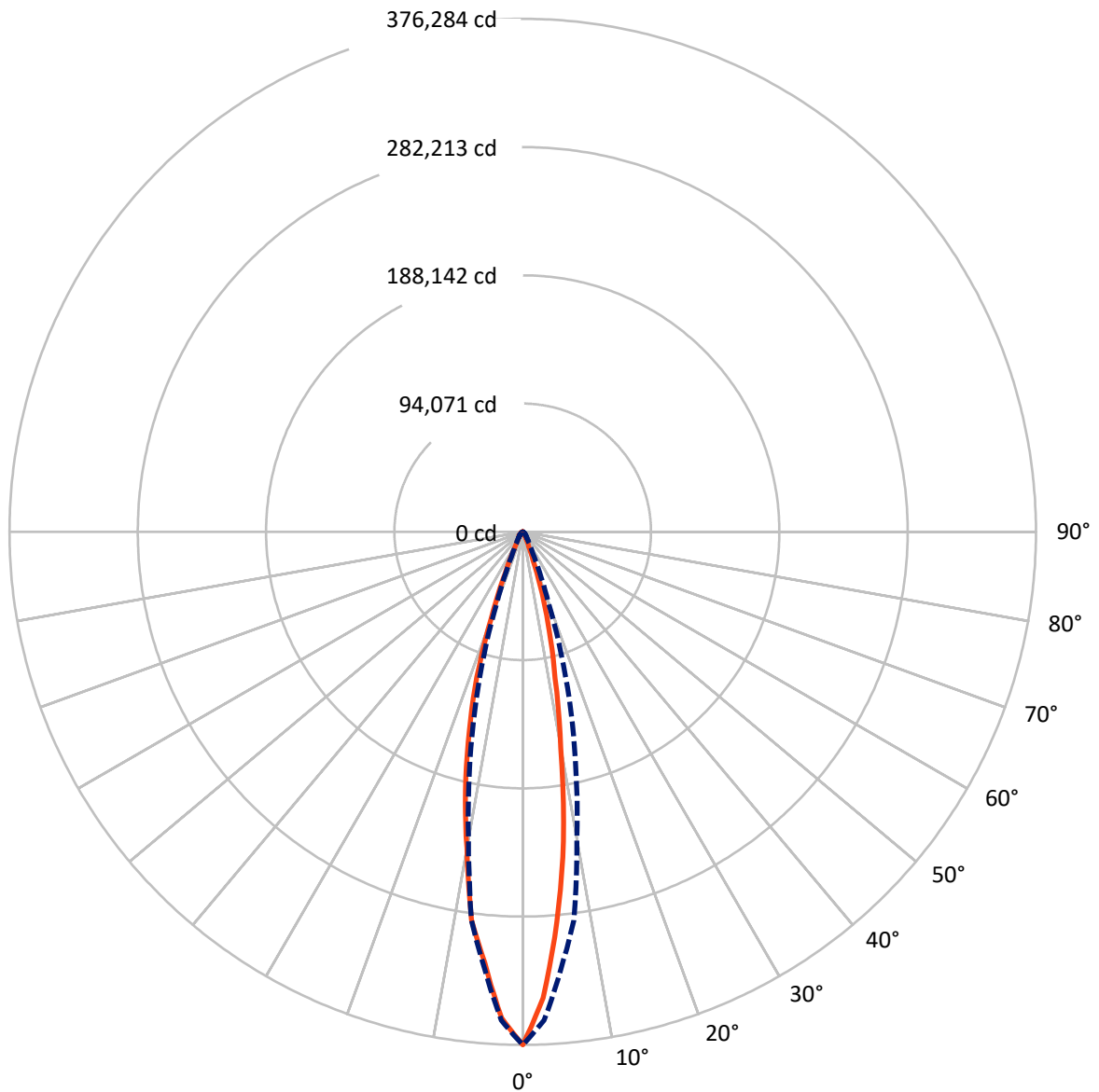
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Lumen Table

90	0.2	0.6	0.7	0.6	0.5	0.6	0.7	0.6	0.2									
80	0.2	0.6	0.7	0.6	0.5	0.6	0.7	0.6	0.2									
70	0.2	0.1	0.2	0.6	0.7	0.5	0.3	0.3	0.3	0.3	0.5	0.7	0.6	0.2	0.1	0.2		
60		0.2	0.4	0.6	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.6	0.4	0.2			
50	0.3	0.2	0.4	0.5	0.7	0.9	1.2	1.4	1.4	1.2	0.9	0.7	0.5	0.4	0.2	0.3		
40		0.2	0.9	2.0	4.0	6.2	7.9	9.6	9.6	7.9	6.2	4.0	2.0	0.9	0.2			
30	0.3	0.5	3.0	9.8	25.9	44.5	102.1	213.3	213.3	102.1	44.5	25.9	9.8	3.0	0.5	0.3		
20		1.0	7.3	26.3	65.0	178.3	937.3	2200.7	2200.7	937.3	178.3	65.0	26.3	7.3	1.0			
10	0.4	2.0	12.9	49.3	119.1	536.8	3235.3	7401.1	7401.1	3235.3	536.8	119.1	49.3	12.9	2.0	0.4		
0		3.3	17.1	59.6	136.6	579.4	3733.6	8413.4	8413.4	3733.6	579.4	136.6	59.6	17.1	3.3			
-10	0.7	3.8	17.4	56.7	125.5	337.7	1909.1	4179.8	4179.8	1909.1	337.7	125.5	56.7	17.4	3.8	0.7		
-20		3.6	14.5	37.0	86.4	152.4	350.0	713.2	713.2	350.0	152.4	86.4	37.0	14.5	3.6			
-30	0.5	3.1	10.5	22.7	50.2	89.6	124.0	150.0	150.0	124.0	89.6	50.2	22.7	10.5	3.1	0.5		
-40		2.1	7.3	15.9	28.8	49.5	80.3	104.5	104.5	80.3	49.5	28.8	15.9	7.3	2.1			
-50	0.3	1.0	4.5	10.5	18.8	28.3	36.8	42.3	42.3	36.8	28.3	18.8	10.5	4.5	1.0	0.3		
-60		0.4	1.7	5.3	10.6	16.9	23.4	27.2	27.2	23.4	16.9	10.6	5.3	1.7	0.4			
-70	0.2	1.0	3.7	10.2	14.7	10.2	3.7	1.0	0.2							0.2		
-80		1.0	3.7	10.2	14.7	10.2	3.7	1.0	0.2									
-90	0.2	1.0	3.7	10.2	14.7	10.2	3.7	1.0	0.2									

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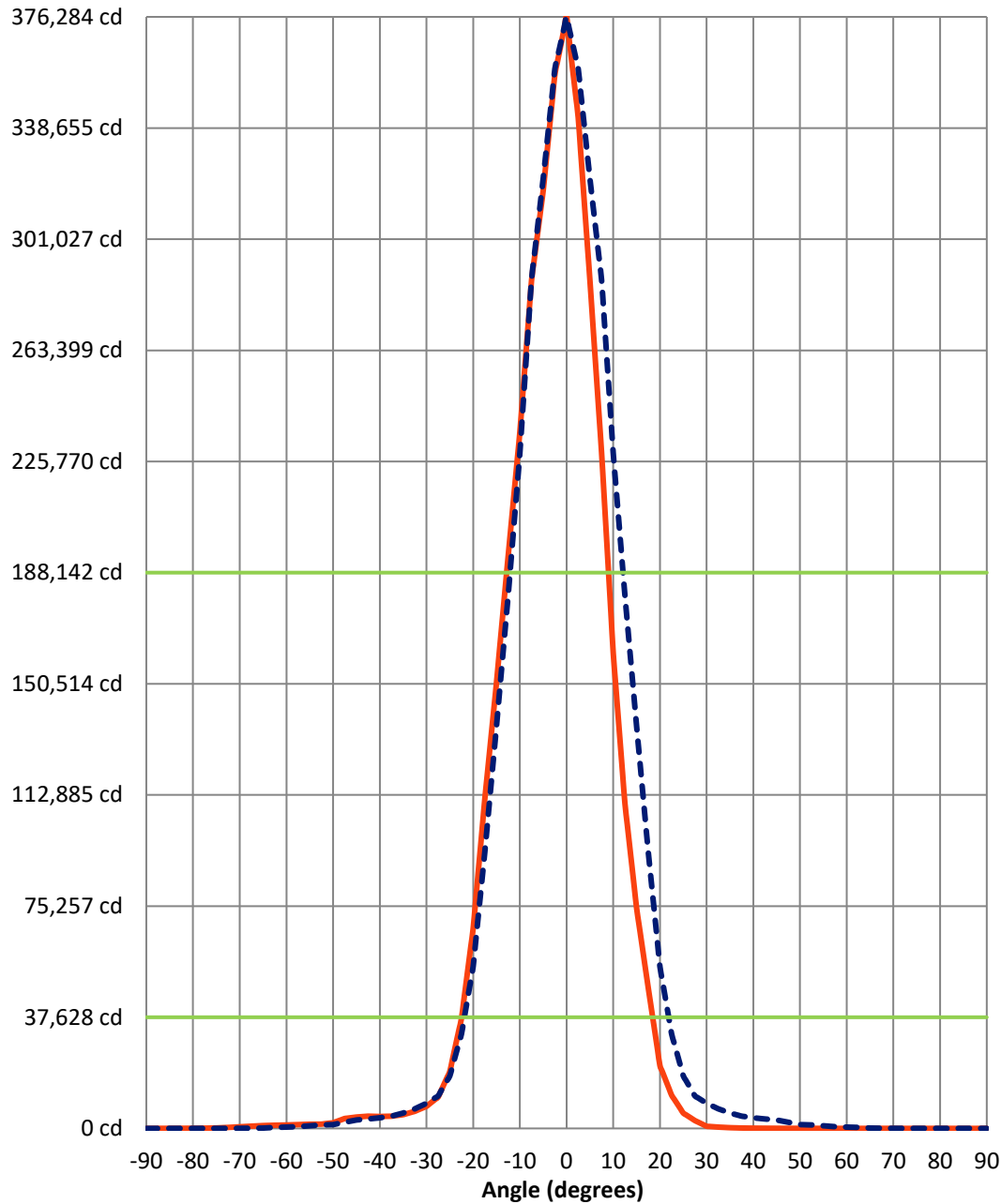
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 24.2°
 V Angle: 21.8°
 Lumens: 33654.5
 Efficiency: 45.3%

Field:
 H Angle: 43.8°
 V Angle: 40.9°
 Lumens: 63688.5
 Efficiency: 85.7%

Spill:
 Lumens: 10585.4
 Efficiency: 14.3%

- 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°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	10.2	10.7	11.1	11.6
87.5°	9.7	9.7	9.9	9.9	9.9	9.8	9.7	9.7	9.7	9.7	9.7
85°	9.7	9.8	10.0	10.1	10.0	9.9	9.7	9.7	9.7	9.7	9.7
82.5°	9.7	9.8	10.2	10.3	10.2	10.0	9.7	9.7	9.7	9.8	9.7
80°	9.7	9.9	10.3	10.5	10.4	10.1	9.8	10.0	10.1	10.0	9.7
77.5°	9.7	9.9	10.5	10.6	10.6	10.3	10.3	10.4	10.4	10.2	9.8
75°	9.7	9.9	10.6	10.8	10.7	10.6	10.8	10.9	10.8	10.3	9.8
72.5°	9.7	10.0	10.8	11.0	10.9	10.9	11.2	11.3	10.8	10.4	9.9
70°	9.7	10.0	10.9	11.2	11.1	11.2	11.6	11.3	10.9	10.4	10.0
67.5°	9.7	10.0	11.0	11.3	11.2	11.5	11.6	11.4	10.9	10.5	10.0
65°	9.7	10.1	11.2	11.3	11.4	11.6	11.6	11.4	11.0	10.5	10.3
62.5°	9.7	10.1	11.3	11.4	11.5	11.6	11.6	11.5	11.1	10.7	10.9
60°	9.7	10.1	11.3	11.5	11.6	11.6	11.6	11.5	11.1	11.1	11.4
57.5°	9.7	10.1	11.3	11.5	11.6	11.6	11.6	11.6	11.3	11.4	11.6
55°	9.7	10.1	11.3	11.5	11.6	11.6	11.6	11.6	11.5	11.6	11.6
52.5°	9.7	10.2	11.3	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
50°	9.7	10.2	11.3	11.6	11.6	11.6	11.6	11.7	11.6	11.6	12.5
47.5°	9.7	10.2	11.3	11.6	11.6	11.6	11.6	11.9	11.6	11.6	13.4
45°	9.7	10.2	11.3	11.6	11.6	11.6	11.8	12.0	11.7	12.2	14.1
42.5°	9.7	10.2	11.3	11.6	11.6	11.6	12.0	12.2	11.8	12.8	14.8
40°	9.7	10.2	11.3	11.6	11.6	11.6	12.2	12.3	12.1	13.3	15.3
37.5°	9.7	10.2	11.3	11.6	11.6	11.6	12.4	12.4	12.7	13.9	15.6
35°	9.7	10.1	11.3	11.6	11.6	11.7	12.7	12.5	13.2	14.7	15.7
32.5°	9.7	10.1	11.3	11.6	11.6	11.9	13.0	12.7	13.8	15.6	17.0
30°	9.7	10.1	11.3	11.6	11.6	12.2	13.1	12.9	14.3	16.6	18.8
27.5°	9.7	10.1	11.4	11.6	11.6	12.4	13.2	13.3	14.9	17.7	20.9
25°	9.7	10.1	11.4	11.6	11.6	12.6	13.3	13.7	15.8	19.2	23.5
22.5°	9.7	10.0	11.4	11.6	11.6	12.8	13.4	14.1	16.7	21.2	28.7
20°	9.7	10.0	11.4	11.6	11.6	13.0	13.6	14.4	17.6	23.2	33.7
17.5°	9.7	10.0	11.5	11.6	11.6	13.1	13.7	14.8	18.5	25.5	38.5
15°	9.7	9.9	11.5	11.6	11.6	13.3	13.9	15.2	19.5	27.8	43.1
12.5°	9.7	9.9	11.5	11.6	11.6	13.4	14.1	15.6	21.1	30.1	47.4
10°	9.7	9.9	11.6	11.6	11.6	13.4	14.4	16.0	23.4	34.8	55.0
7.5°	9.7	9.8	11.6	11.6	11.6	13.5	14.7	16.4	25.9	39.8	70.5
5°	9.7	9.8	11.6	11.6	11.6	13.6	15.0	16.7	28.3	44.8	86.6
2.5°	9.7	9.7	11.6	11.6	11.6	13.6	15.2	17.1	30.7	49.6	102.7
0°	9.7	9.7	11.6	11.6	11.6	13.6	15.5	17.4	32.9	54.2	118.2
-2.5°	9.7	9.7	11.6	11.6	11.6	13.6	17.0	23.2	43.7	72.0	143.7
-5°	9.7	9.7	11.6	11.6	11.6	13.6	18.5	28.7	54.0	89.1	167.4
-7.5°	9.7	9.7	11.6	11.6	11.6	13.5	19.8	33.9	63.6	105.1	189.0
-10°	9.7	9.7	11.5	11.6	11.6	13.4	20.9	38.5	72.3	119.7	208.0
-12.5°	9.7	9.7	11.5	11.6	11.6	13.4	21.8	42.4	79.8	132.4	221.3
-15°	9.7	9.7	11.5	11.6	11.6	13.3	22.4	45.5	86.6	142.7	230.6
-17.5°	9.7	9.7	11.4	11.6	11.6	13.1	22.6	48.4	92.7	151.3	237.3
-20°	9.7	9.7	11.4	11.6	11.6	13.0	23.0	50.8	97.1	158.1	241.1



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 CATALOG NUMBER: EPH-LS-08-0640L-40-80-3S-CV2-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	9.7	9.7	11.3	11.6	11.6	12.8	23.6	52.1	99.8	163.1	242.0
-25°	9.7	9.7	11.2	11.6	11.6	13.0	23.7	52.1	100.5	166.0	240.0
-27.5°	9.7	9.7	11.2	11.6	11.6	13.3	23.0	50.7	99.3	166.9	242.2
-30°	9.7	9.7	11.1	11.6	11.6	13.4	21.7	48.0	97.2	165.2	242.1
-32.5°	9.7	9.7	11.0	11.6	11.8	13.4	19.6	45.9	93.9	160.7	239.3
-35°	9.7	9.7	10.9	11.6	11.9	13.3	18.8	43.4	88.5	153.3	233.8
-37.5°	9.7	9.7	10.8	11.6	12.1	13.1	18.6	39.8	81.0	143.0	216.4
-40°	9.7	9.7	10.7	11.6	12.2	13.3	18.2	35.0	71.4	131.9	196.6
-42.5°	9.7	9.7	10.6	11.6	12.3	13.4	17.5	29.0	63.1	116.2	175.4
-45°	9.7	9.7	10.5	11.7	12.4	13.5	16.6	24.5	54.9	98.6	153.3
-47.5°	9.7	9.7	10.4	11.7	12.4	13.6	15.4	23.1	45.1	79.9	132.1
-50°	9.7	9.7	10.2	11.6	12.4	13.6	15.2	21.3	33.5	66.6	109.3
-52.5°	9.7	9.7	10.1	11.5	12.4	13.6	15.2	19.2	28.0	52.3	86.0
-55°	9.7	9.7	10.0	11.3	12.4	13.5	15.1	17.1	25.0	37.1	68.6
-57.5°	9.7	9.7	9.8	11.1	12.4	13.4	14.9	16.8	21.6	30.4	50.1
-60°	9.7	9.7	9.7	10.9	12.3	13.3	14.7	16.5	18.7	26.1	35.3
-62.5°	9.7	9.7	9.7	10.7	12.1	13.2	14.5	16.0	18.0	21.4	29.8
-65°	9.7	9.7	9.7	10.6	11.8	13.0	14.2	15.5	17.1	19.5	23.9
-67.5°	9.7	9.7	9.7	10.3	11.5	12.7	13.8	15.0	16.2	18.2	20.8
-70°	9.7	9.7	9.7	10.1	11.2	12.4	13.5	14.4	15.4	16.7	18.9
-72.5°	9.7	9.7	9.7	10.1	10.9	12.0	13.0	13.8	14.6	15.6	16.9
-75°	9.7	9.7	9.7	10.0	10.6	11.6	12.6	13.2	13.7	14.5	15.5
-77.5°	9.7	9.7	9.7	10.0	10.5	11.2	12.1	12.6	13.0	13.4	14.0
-80°	9.7	9.7	9.7	9.9	10.3	10.9	11.6	12.0	12.3	12.6	13.0
-82.5°	9.7	9.7	9.7	9.9	10.2	10.6	11.2	11.5	11.6	11.9	12.1
-85°	9.7	9.7	9.7	9.8	10.0	10.3	10.7	11.0	11.3	11.5	11.6
-87.5°	9.7	9.7	9.7	9.8	9.9	10.0	10.2	10.6	11.0	11.3	11.6
-90°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7



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 CATALOG NUMBER: EPH-LS-08-0640L-40-80-3S-CV2-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	11.1	10.7	10.2	9.7	9.7	9.7	9.7	9.7	9.2	8.7	8.2
87.5°	9.2	8.7	8.2	7.7	7.7	7.7	7.7	7.7	7.2	6.8	6.3
85°	9.2	8.7	8.3	8.0	8.0	8.0	7.9	7.7	7.2	6.8	6.3
82.5°	9.4	9.2	9.1	9.1	9.0	8.7	8.2	7.7	7.3	6.8	6.3
80°	9.6	9.7	9.7	9.7	9.3	8.8	8.3	7.8	7.3	6.8	6.4
77.5°	9.7	9.7	9.7	9.7	9.3	8.8	8.3	7.8	7.4	6.9	6.4
75°	9.7	9.7	9.7	9.7	9.4	8.9	8.4	8.3	8.2	8.1	7.9
72.5°	9.7	9.7	9.7	9.7	9.5	9.3	9.3	9.5	9.9	10.0	9.9
70°	9.7	9.7	9.9	9.9	9.7	9.9	10.7	11.8	12.7	13.7	16.1
67.5°	9.8	10.2	10.3	10.2	10.5	11.4	12.6	17.8	24.1	27.0	28.6
65°	10.6	10.9	10.9	11.1	11.5	15.2	20.9	28.4	36.5	38.4	38.2
62.5°	11.5	11.3	11.4	12.5	15.6	20.7	28.5	37.1	46.2	44.5	38.4
60°	11.6	11.5	12.9	15.8	19.8	26.7	35.6	40.0	42.9	42.8	35.2
57.5°	11.6	12.6	15.3	19.3	25.2	31.0	33.0	35.5	37.5	38.7	30.4
55°	12.1	14.3	17.8	23.3	27.8	27.1	28.1	29.8	31.1	29.4	21.8
52.5°	13.4	15.9	20.6	25.4	26.4	24.3	22.9	24.0	23.0	19.9	16.5
50°	14.6	18.0	22.7	25.8	25.2	21.9	18.9	19.3	18.4	16.1	14.1
47.5°	15.9	19.7	24.3	26.3	23.6	21.4	18.9	18.2	17.3	18.0	17.0
45°	17.0	21.0	26.0	25.5	23.8	23.0	21.8	19.2	22.2	23.3	23.0
42.5°	17.9	22.0	25.9	25.1	26.4	27.1	26.7	27.8	29.6	32.2	33.3
40°	18.5	22.7	26.9	29.7	30.5	33.2	36.8	39.7	40.7	44.5	47.1
37.5°	18.7	24.8	30.9	38.3	37.3	42.8	48.9	59.3	62.5	58.7	66.0
35°	18.7	28.0	41.5	51.7	53.1	55.5	71.2	87.0	96.8	87.2	96.1
32.5°	20.7	32.4	55.0	69.4	79.8	82.4	97.9	130.6	147.4	149.7	150.7
30°	25.6	44.9	71.6	90.5	114.1	133.1	148.1	185.7	212.5	279.1	332.9
27.5°	31.8	60.1	91.7	122.2	157.5	192.8	228.3	257.9	344.8	470.0	609.4
25°	38.0	81.9	113.9	161.1	214.9	266.4	314.2	354.6	524.1	780.5	952.1
22.5°	49.9	107.8	145.9	204.6	278.1	345.8	404.8	511.7	748.8	1128.4	1313.0
20°	69.4	135.1	185.4	256.7	348.9	427.9	497.0	675.9	1021.9	1377.8	1606.8
17.5°	90.6	163.8	228.3	322.4	440.3	527.8	598.6	835.6	1286.6	1626.7	1860.0
15°	113.1	193.2	270.7	393.9	540.5	648.9	792.7	1083.9	1520.4	1871.1	2157.2
12.5°	136.1	223.1	312.1	469.3	646.9	771.3	1029.3	1451.7	1841.3	2147.0	2575.1
10°	159.1	252.7	352.3	546.5	757.1	893.7	1289.6	1815.2	2191.7	2506.2	2998.4
7.5°	204.0	294.5	395.4	623.3	868.1	1014.9	1562.4	2168.9	2519.8	2839.9	3358.6
5°	252.4	348.3	462.5	719.0	978.1	1124.3	1816.1	2506.1	2827.5	3149.8	3664.1
2.5°	299.3	400.1	527.2	811.8	1081.4	1213.2	1967.6	2693.4	3027.1	3390.5	3924.1
0°	342.9	449.5	588.9	897.0	1176.0	1296.1	2090.4	2851.7	3194.6	3591.8	4151.7
-2.5°	378.1	497.8	646.7	945.4	1208.8	1343.3	2115.6	2909.9	3281.2	3706.6	4261.0
-5°	407.4	542.7	700.1	985.3	1234.2	1384.8	2110.5	2930.6	3353.8	3793.7	4360.5
-7.5°	430.3	583.4	748.4	1014.2	1247.4	1404.6	2104.2	2958.2	3433.4	3853.0	4441.1
-10°	443.0	600.1	758.7	1010.2	1244.2	1409.0	2058.2	2941.6	3498.4	3896.0	4466.4
-12.5°	429.8	594.8	756.1	997.5	1235.4	1408.2	1958.2	2877.8	3550.3	3925.4	4418.6
-15°	414.2	586.0	745.7	975.8	1221.9	1402.2	1798.9	2764.6	3524.2	3818.0	4278.6
-17.5°	397.2	573.9	726.9	945.4	1204.2	1391.2	1565.3	2477.6	3257.9	3634.4	4127.1
-20°	379.7	558.3	699.3	906.1	1179.0	1337.7	1455.4	2114.7	2877.3	3408.0	3862.1



REPORT NUMBER: P701492 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	362.3	539.4	669.7	869.8	1087.9	1249.4	1374.2	1744.5	2483.1	3127.9	3466.5
-25°	353.0	511.9	645.0	803.0	990.9	1158.5	1280.1	1411.8	2071.1	2690.7	3117.0
-27.5°	348.7	487.0	608.4	736.4	898.9	1062.5	1178.4	1302.6	1665.0	2250.4	2761.6
-30°	340.7	453.0	570.2	676.4	820.7	962.3	1076.1	1204.2	1350.0	1822.9	2295.0
-32.5°	321.6	418.5	530.2	632.4	747.5	871.4	997.6	1122.8	1247.7	1419.7	1852.4
-35°	299.3	389.6	490.2	587.3	678.9	797.7	923.7	1047.1	1153.0	1263.0	1502.4
-37.5°	281.2	358.5	450.7	542.6	629.1	730.7	846.8	966.6	1074.8	1174.1	1310.6
-40°	261.4	325.1	413.4	500.3	581.7	669.1	772.6	880.7	992.3	1108.3	1215.1
-42.5°	239.6	301.1	374.7	458.6	535.0	615.4	698.2	798.2	908.0	1030.5	1141.2
-45°	214.8	275.5	336.0	413.1	486.5	560.5	638.0	717.2	824.9	934.9	1050.8
-47.5°	188.6	247.8	305.9	367.5	437.4	505.0	576.0	656.8	741.5	842.0	944.3
-50°	161.6	217.7	274.1	329.9	389.6	450.8	513.5	595.3	675.7	754.4	842.2
-52.5°	134.4	186.2	240.0	293.7	346.8	401.9	461.7	533.7	609.7	683.5	756.4
-55°	105.7	153.9	204.3	255.2	305.9	355.9	414.1	478.0	543.7	614.1	681.9
-57.5°	81.4	119.9	166.4	214.9	262.7	311.7	368.7	423.7	483.4	545.6	606.4
-60°	59.3	88.9	126.2	171.1	217.8	265.7	322.1	376.7	427.7	477.4	534.5
-62.5°	39.1	62.2	90.3	124.1	166.6	214.6	265.1	318.9	376.8	422.1	466.8
-65°	32.1	39.7	58.9	85.2	113.3	154.1	200.2	249.9	300.1	345.3	392.9
-67.5°	24.8	32.0	38.7	48.7	72.9	100.0	128.9	170.1	213.7	251.6	290.0
-70°	21.6	24.9	30.5	36.4	42.2	53.3	77.1	102.4	127.4	151.6	183.0
-72.5°	19.1	21.9	24.9	28.1	33.1	38.2	43.8	49.6	63.7	82.4	99.9
-75°	17.0	18.9	21.4	24.1	26.7	29.2	32.1	36.7	41.3	45.6	49.8
-77.5°	15.2	16.7	18.4	20.2	21.9	23.8	25.9	28.1	30.2	32.5	35.0
-80°	13.6	14.5	15.7	17.1	17.9	18.9	20.1	21.4	22.6	23.9	25.3
-82.5°	12.5	13.0	13.7	14.4	14.5	14.4	14.3	14.8	15.6	16.4	17.2
-85°	11.6	11.6	11.9	12.2	12.3	12.4	12.5	12.4	12.3	12.2	12.2
-87.5°	11.3	11.1	10.9	10.8	10.9	10.9	11.0	11.0	10.6	10.2	9.8
-90°	9.2	8.7	8.2	7.7	7.7	7.7	7.7	7.7	7.2	6.8	6.3



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	7.7	7.7	7.7	7.7	7.7	8.2	8.7	9.2	9.7	11.2	12.6
87.5°	5.8	5.3	4.9	4.4	3.9	3.4	2.9	2.4	1.9	1.9	1.9
85°	5.8	5.3	4.9	4.4	3.9	3.4	2.9	2.4	1.9	1.9	1.9
82.5°	5.8	5.6	5.4	5.3	5.3	4.9	4.5	4.1	3.7	3.3	2.9
80°	5.9	5.8	5.8	5.8	5.8	5.4	4.9	4.4	3.9	3.4	2.9
77.5°	6.1	6.1	6.1	6.0	5.9	5.4	4.9	4.5	4.0	3.5	2.9
75°	7.7	7.5	7.1	6.6	6.0	5.5	5.0	4.5	4.0	3.8	3.8
72.5°	9.5	9.0	8.6	9.1	9.0	8.8	8.5	7.9	7.1	7.0	7.3
70°	17.7	18.5	18.7	17.8	15.9	14.2	12.9	11.4	9.8	9.3	9.4
67.5°	28.2	26.9	25.2	23.0	19.7	16.8	15.0	13.3	11.7	11.2	11.3
65°	35.1	29.1	25.0	21.7	19.1	16.8	14.9	13.1	11.2	10.2	10.0
62.5°	32.1	25.2	20.8	18.2	16.4	14.9	12.6	10.7	9.1	8.4	8.7
60°	27.6	20.2	15.6	13.6	11.6	9.8	8.9	8.3	7.9	7.7	7.8
57.5°	21.9	15.3	11.5	10.7	9.7	8.3	7.9	8.1	8.0	7.7	7.7
55°	16.1	13.1	11.6	11.1	10.6	10.0	9.6	9.4	9.2	9.0	9.2
52.5°	13.1	13.1	13.3	13.1	12.6	12.0	11.5	11.5	11.7	12.0	12.6
50°	14.5	14.9	15.2	15.0	14.6	14.1	13.5	14.1	14.9	15.7	16.3
47.5°	16.8	17.4	18.5	17.2	17.4	18.5	17.8	18.0	20.8	22.7	23.8
45°	21.4	24.7	25.5	26.4	26.6	28.6	29.5	30.1	35.7	38.1	38.2
42.5°	34.0	37.2	39.9	42.4	42.0	48.3	56.8	61.5	61.3	60.3	61.3
40°	51.4	54.9	62.7	68.7	77.9	86.2	86.8	78.8	79.7	88.9	89.6
37.5°	77.2	88.0	103.6	121.0	125.6	120.3	123.5	129.3	135.3	143.8	153.7
35°	123.0	159.1	166.2	179.6	188.4	179.7	183.1	198.5	198.6	226.1	241.1
32.5°	218.2	273.6	290.6	278.6	301.9	315.9	272.7	327.1	337.5	365.6	400.1
30°	355.9	471.2	506.8	490.2	553.1	572.9	534.8	644.1	708.3	707.0	869.0
27.5°	676.4	733.9	800.8	902.9	916.1	950.2	1165.5	1332.1	1543.7	1743.6	2003.2
25°	1034.8	1067.4	1259.1	1385.3	1447.7	1675.4	1994.5	2254.9	2703.7	3122.6	3994.5
22.5°	1365.0	1486.9	1720.7	1922.8	2149.9	2516.5	2956.7	3439.8	4632.3	6099.5	7940.3
20°	1688.9	1849.5	2128.8	2492.2	2854.6	3353.3	3938.6	5469.3	7814.2	11368.0	15208.8
17.5°	2054.7	2209.0	2589.7	3103.0	3654.5	4401.9	6197.2	9121.9	14101.5	21053.8	27760.8
15°	2529.4	2795.1	3216.4	3974.7	5030.1	6791.8	9718.4	16932.4	26873.9	37685.5	49276.8
12.5°	3084.9	3522.9	4208.6	5188.5	6708.3	10869.9	18225.0	29809.1	44665.2	59849.9	78900.7
10°	3622.7	4355.3	5404.6	6948.7	9972.0	16531.1	27488.8	44207.3	66970.0	90447.7	111487.3
7.5°	4094.9	5064.4	6476.3	8640.3	13440.1	22919.6	38683.4	61979.9	90352.1	119364.4	147656.3
5°	4577.2	5729.9	7375.4	9907.3	15555.1	27544.0	47777.9	78250.2	112529.3	147668.6	184594.7
2.5°	4973.2	6288.7	8126.0	10957.6	16804.9	30029.3	53417.6	89582.4	129189.1	169418.3	215366.6
0°	5211.4	6635.3	8497.1	10990.4	17786.5	31987.1	54810.7	93593.9	136222.7	180453.6	228543.8
-2.5°	5218.8	6563.1	8316.2	10886.1	17576.5	31451.9	54907.9	93493.9	135844.4	178443.0	225900.1
-5°	5202.5	6398.6	8045.0	10512.3	16319.1	28659.8	50695.5	87436.4	129150.1	169464.2	212689.4
-7.5°	5177.7	6181.1	7659.7	9914.4	14709.9	25289.7	45843.8	79477.3	118833.9	156384.6	195078.5
-10°	5148.9	5956.0	7305.1	9401.3	13252.2	21281.0	36878.2	67508.3	103612.0	138263.0	169993.1
-12.5°	5124.2	5863.5	7019.4	8694.6	11480.2	17832.8	31134.8	55169.3	84406.3	113665.2	141773.1
-15°	5029.6	5741.1	6786.4	8169.8	10428.1	14870.9	23242.4	39855.8	63863.4	86976.3	109288.8
-17.5°	4836.0	5566.8	6224.5	7301.4	8930.4	11827.5	17312.4	27323.2	42737.9	60805.2	76546.4
-20°	4456.6	4957.5	5503.1	6417.8	7671.5	9196.7	11698.1	17402.3	24731.6	36516.5	44769.9



REPORT NUMBER: P701492 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-3S-CV2-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3893.2	4314.6	4773.6	5383.0	6264.6	7341.0	8675.7	10784.6	14609.1	19151.3	24171.5
-25°	3379.4	3682.2	4107.5	4631.1	5102.9	5805.2	6740.6	7558.6	9210.6	10546.9	13308.0
-27.5°	2989.9	3241.6	3626.9	4032.9	4381.2	4757.5	5408.3	5986.6	6790.4	7492.1	8614.6
-30°	2708.3	2966.2	3275.8	3583.6	3914.4	4233.4	4524.8	4963.2	5445.3	5903.0	6496.8
-32.5°	2360.6	2767.6	2991.7	3252.0	3546.3	3825.3	4047.4	4324.7	4590.0	4893.3	5219.0
-35°	1997.4	2442.0	2786.2	2986.1	3204.7	3471.2	3698.8	3888.5	4064.3	4252.6	4424.6
-37.5°	1569.7	2060.9	2452.9	2748.9	2948.5	3134.5	3378.7	3561.0	3677.3	3833.4	3951.0
-40°	1349.1	1545.8	1991.4	2393.6	2650.8	2943.8	3171.0	3364.0	3577.0	3743.1	3839.0
-42.5°	1241.5	1355.6	1474.2	1802.8	2205.3	2557.1	2850.0	3167.4	3452.3	3678.8	3889.6
-45°	1158.5	1239.4	1323.9	1432.9	1545.6	1874.8	2236.0	2607.3	2939.7	3250.3	3516.9
-47.5°	1047.6	1142.4	1219.5	1288.4	1357.6	1458.7	1566.9	1717.4	2037.0	2361.0	2669.9
-50°	933.4	1020.6	1105.8	1185.7	1250.6	1301.6	1342.4	1408.9	1505.2	1601.0	1695.1
-52.5°	825.9	906.8	984.0	1061.5	1137.4	1204.7	1264.4	1311.4	1350.0	1383.0	1405.3
-55°	749.0	812.7	872.7	946.6	1019.5	1087.3	1150.1	1207.7	1260.3	1308.2	1341.1
-57.5°	669.0	731.5	793.7	855.8	916.1	974.3	1032.9	1089.9	1143.5	1192.2	1224.8
-60°	589.8	643.2	704.9	769.1	829.2	885.3	939.7	990.9	1038.6	1079.5	1105.9
-62.5°	515.0	565.5	618.8	676.5	737.3	796.7	851.2	903.0	952.0	991.7	1017.3
-65°	439.4	481.9	527.4	575.1	624.5	675.1	727.0	779.9	833.1	875.9	904.0
-67.5°	330.1	372.6	417.3	463.9	505.9	544.6	582.0	620.5	659.6	692.0	717.4
-70°	214.7	246.5	277.6	309.5	344.4	379.8	413.6	445.3	474.7	498.3	517.4
-72.5°	116.0	131.4	148.6	173.0	196.3	219.8	243.1	265.0	285.4	300.8	312.9
-75°	53.8	60.8	73.9	86.0	97.1	108.5	119.6	129.7	138.9	145.5	150.5
-77.5°	38.2	41.3	44.4	47.6	50.7	55.0	59.6	64.1	68.5	72.8	76.9
-80°	26.8	28.6	30.4	32.0	33.5	36.0	38.6	41.3	43.9	46.6	49.2
-82.5°	18.0	19.1	20.3	21.4	22.4	23.9	25.3	26.7	28.1	30.2	32.4
-85°	12.2	12.7	13.2	13.8	14.4	15.6	16.7	17.9	19.0	20.5	22.1
-87.5°	9.3	9.4	9.4	9.5	9.5	10.5	11.5	12.5	13.5	15.0	16.4
-90°	5.8	5.3	4.9	4.4	3.9	3.4	2.9	2.4	1.9	1.4	1.0



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 CATALOG NUMBER: EPH-LS-08-0640L-40-80-3S-CV2-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	14.1	15.5	16.5	17.4	16.5	15.5	14.1	12.6	11.2	9.7	9.2
87.5°	1.9	1.9	0.9	0.0	0.9	1.9	1.9	1.9	1.9	1.9	2.4
85°	1.9	1.9	1.0	0.0	1.0	1.9	1.9	1.9	1.9	1.9	2.4
82.5°	2.4	1.9	1.9	1.9	1.9	1.9	2.4	2.9	3.3	3.7	4.1
80°	2.4	1.9	1.9	1.9	1.9	1.9	2.4	2.9	3.4	3.9	4.4
77.5°	2.4	1.9	1.9	1.9	1.9	1.9	2.4	2.9	3.5	4.0	4.5
75°	3.8	3.9	3.9	3.9	3.9	3.9	3.8	3.8	3.8	4.0	4.5
72.5°	7.5	7.6	7.7	7.7	7.7	7.6	7.5	7.3	7.0	7.1	7.9
70°	9.6	9.6	9.7	9.7	9.7	9.6	9.6	9.4	9.3	9.8	11.4
67.5°	11.4	11.5	11.6	11.6	11.6	11.5	11.4	11.3	11.2	11.7	13.3
65°	9.9	9.8	9.7	9.7	9.7	9.8	9.9	10.0	10.2	11.2	13.1
62.5°	9.1	9.6	9.7	9.7	9.7	9.6	9.1	8.7	8.4	9.1	10.7
60°	7.8	7.8	7.7	7.7	7.7	7.8	7.8	7.8	7.7	7.9	8.3
57.5°	7.7	7.7	8.5	9.7	8.5	7.7	7.7	7.7	7.7	8.0	8.1
55°	9.4	9.6	10.4	11.6	10.4	9.6	9.4	9.2	9.0	9.2	9.4
52.5°	13.0	13.3	13.5	13.6	13.5	13.3	13.0	12.6	12.0	11.7	11.5
50°	16.8	17.1	17.3	17.4	17.3	17.1	16.8	16.3	15.7	14.9	14.1
47.5°	24.6	24.9	25.0	25.2	25.0	24.9	24.6	23.8	22.7	20.8	18.0
45°	39.6	40.1	40.4	40.7	40.4	40.1	39.6	38.2	38.1	35.7	30.1
42.5°	63.8	64.8	64.8	63.9	64.8	64.8	63.8	61.3	60.3	61.3	61.5
40°	91.0	91.0	90.0	89.1	90.0	91.0	91.0	89.6	88.9	79.7	78.8
37.5°	158.3	152.6	142.4	137.5	142.4	152.6	158.3	153.7	143.8	135.3	129.3
35°	245.0	248.7	249.7	248.0	249.7	248.7	245.0	241.1	226.1	198.6	198.5
32.5°	409.7	429.3	435.7	447.5	435.7	429.3	409.7	400.1	365.6	337.5	327.1
30°	843.5	837.6	764.2	732.3	764.2	837.6	843.5	869.0	707.0	708.3	644.1
27.5°	2272.3	2533.9	2658.5	2648.3	2658.5	2533.9	2272.3	2003.2	1743.6	1543.7	1332.1
25°	4679.7	5100.1	5378.9	5195.9	5378.9	5100.1	4679.7	3994.5	3122.6	2703.7	2254.9
22.5°	9654.9	10571.4	11070.8	11250.0	11070.8	10571.4	9654.9	7940.3	6099.5	4632.3	3439.8
20°	19348.2	21078.7	22342.5	21287.3	22342.5	21078.7	19348.2	15208.8	11368.0	7814.2	5469.3
17.5°	35919.9	41303.1	46065.1	47553.5	46065.1	41303.1	35919.9	27760.8	21053.8	14101.5	9121.9
15°	60451.5	69542.7	74946.4	74631.4	74946.4	69542.7	60451.5	49276.8	37685.5	26873.9	16932.4
12.5°	93011.5	104230.4	111716.1	110051.4	111716.1	104230.4	93011.5	78900.7	59849.9	44665.2	29809.1
10°	132135.0	149127.9	161474.7	160906.1	161474.7	149127.9	132135.0	111487.3	90447.7	66970.0	44207.3
7.5°	172697.1	200593.6	224806.4	228880.9	224806.4	200593.6	172697.1	147656.3	119364.4	90352.1	61979.9
5°	225005.5	261774.1	285819.8	287194.2	285819.8	261774.1	225005.5	184594.7	147668.6	112529.3	78250.2
2.5°	267436.4	309616.0	329908.6	342203.5	329908.6	309616.0	267436.4	215366.6	169418.3	129189.1	89582.4
0°	287315.3	321604.9	358705.5	376283.8	358705.5	321604.9	287315.3	228543.8	180453.6	136222.7	93593.9
-2.5°	279159.7	315903.6	338164.3	356794.4	338164.3	315903.6	279159.7	225900.1	178443.0	135844.4	93493.9
-5°	260663.7	297070.9	315745.8	317488.1	315745.8	297070.9	260663.7	212689.4	169464.2	129150.1	87436.4
-7.5°	230468.4	261339.7	280946.5	287047.0	280946.5	261339.7	230468.4	195078.5	156384.6	118833.9	79477.3
-10°	198378.7	220580.1	233251.5	235680.8	233251.5	220580.1	198378.7	169993.1	138263.0	103612.0	67508.3
-12.5°	165016.4	183192.7	191936.2	193846.4	191936.2	183192.7	165016.4	141773.1	113665.2	84406.3	55169.3
-15°	128059.5	141736.8	149609.4	150979.3	149609.4	141736.8	128059.5	109288.8	86976.3	63863.4	39855.8
-17.5°	91406.5	102520.3	110495.2	111554.8	110495.2	102520.3	91406.5	76546.4	60805.2	42737.9	27323.2
-20°	56150.7	63712.7	68378.0	67693.9	68378.0	63712.7	56150.7	44769.9	36516.5	24731.6	17402.3



REPORT NUMBER: P701492 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-3S-CV2-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	30230.8	34306.9	36278.5	37297.3	36278.5	34306.9	30230.8	24171.5	19151.3	14609.1	10784.6
-25°	15979.9	17706.2	18592.0	19286.0	18592.0	17706.2	15979.9	13308.0	10546.9	9210.6	7558.6
-27.5°	9508.2	10101.9	10431.6	10612.6	10431.6	10101.9	9508.2	8614.6	7492.1	6790.4	5986.6
-30°	6970.4	7254.9	7405.2	7480.0	7405.2	7254.9	6970.4	6496.8	5903.0	5445.3	4963.2
-32.5°	5480.3	5649.1	5753.0	5790.7	5753.0	5649.1	5480.3	5219.0	4893.3	4590.0	4324.7
-35°	4546.2	4602.6	4622.9	4659.3	4622.9	4602.6	4546.2	4424.6	4252.6	4064.3	3888.5
-37.5°	4040.6	4093.1	4118.8	4140.1	4118.8	4093.1	4040.6	3951.0	3833.4	3677.3	3561.0
-40°	3883.3	3939.0	3996.1	4037.4	3996.1	3939.0	3883.3	3839.0	3743.1	3577.0	3364.0
-42.5°	3981.6	4072.7	4135.3	4143.9	4135.3	4072.7	3981.6	3889.6	3678.8	3452.3	3167.4
-45°	3668.3	3772.1	3828.7	3847.5	3828.7	3772.1	3668.3	3516.9	3250.3	2939.7	2607.3
-47.5°	2943.6	3180.8	3322.4	3353.5	3322.4	3180.8	2943.6	2669.9	2361.0	2037.0	1717.4
-50°	1786.5	1871.0	1917.5	1923.8	1917.5	1871.0	1786.5	1695.1	1601.0	1505.2	1408.9
-52.5°	1423.0	1438.1	1447.5	1453.0	1447.5	1438.1	1423.0	1405.3	1383.0	1350.0	1311.4
-55°	1370.0	1395.4	1409.6	1416.2	1409.6	1395.4	1370.0	1341.1	1308.2	1260.3	1207.7
-57.5°	1254.0	1279.7	1291.1	1294.1	1291.1	1279.7	1254.0	1224.8	1192.2	1143.5	1089.9
-60°	1130.0	1151.8	1158.6	1158.5	1158.6	1151.8	1130.0	1105.9	1079.5	1038.6	990.9
-62.5°	1041.6	1064.4	1075.3	1081.0	1075.3	1064.4	1041.6	1017.3	991.7	952.0	903.0
-65°	928.4	949.2	957.9	960.9	957.9	949.2	928.4	904.0	875.9	833.1	779.9
-67.5°	740.2	759.8	765.4	765.2	765.4	759.8	740.2	717.4	692.0	659.6	620.5
-70°	533.5	546.6	548.7	546.3	548.7	546.6	533.5	517.4	498.3	474.7	445.3
-72.5°	322.7	330.2	333.0	333.2	333.0	330.2	322.7	312.9	300.8	285.4	265.0
-75°	154.3	157.1	159.4	160.8	159.4	157.1	154.3	150.5	145.5	138.9	129.7
-77.5°	80.8	84.5	86.0	87.2	86.0	84.5	80.8	76.9	72.8	68.5	64.1
-80°	51.6	53.9	54.1	54.2	54.1	53.9	51.6	49.2	46.6	43.9	41.3
-82.5°	34.5	36.6	36.8	36.8	36.8	36.6	34.5	32.4	30.2	28.1	26.7
-85°	23.6	25.1	26.1	27.1	26.1	25.1	23.6	22.1	20.5	19.0	17.9
-87.5°	17.9	19.4	19.4	19.4	19.4	19.4	17.9	16.4	15.0	13.5	12.5
-90°	0.5	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.4	1.9	2.4



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	8.7	8.2	7.7	7.7	7.7	7.7	7.7	8.2	8.7	9.2	9.7
87.5°	2.9	3.4	3.9	4.4	4.9	5.3	5.8	6.3	6.8	7.2	7.7
85°	2.9	3.4	3.9	4.4	4.9	5.3	5.8	6.3	6.8	7.2	7.7
82.5°	4.5	4.9	5.3	5.3	5.4	5.6	5.8	6.3	6.8	7.3	7.7
80°	4.9	5.4	5.8	5.8	5.8	5.8	5.9	6.4	6.8	7.3	7.8
77.5°	4.9	5.4	5.9	6.0	6.1	6.1	6.1	6.4	6.9	7.4	7.8
75°	5.0	5.5	6.0	6.6	7.1	7.5	7.7	7.9	8.1	8.2	8.3
72.5°	8.5	8.8	9.0	9.1	8.6	9.0	9.5	9.9	10.0	9.9	9.5
70°	12.9	14.2	15.9	17.8	18.7	18.5	17.7	16.1	13.7	12.7	11.8
67.5°	15.0	16.8	19.7	23.0	25.2	26.9	28.2	28.6	27.0	24.1	17.8
65°	14.9	16.8	19.1	21.7	25.0	29.1	35.1	38.2	38.4	36.5	28.4
62.5°	12.6	14.9	16.4	18.2	20.8	25.2	32.1	38.4	44.5	46.2	37.1
60°	8.9	9.8	11.6	13.6	15.6	20.2	27.6	35.2	42.8	42.9	40.0
57.5°	7.9	8.3	9.7	10.7	11.5	15.3	21.9	30.4	38.7	37.5	35.5
55°	9.6	10.0	10.6	11.1	11.6	13.1	16.1	21.8	29.4	31.1	29.8
52.5°	11.5	12.0	12.6	13.1	13.3	13.1	13.1	16.5	19.9	23.0	24.0
50°	13.5	14.1	14.6	15.0	15.2	14.9	14.5	14.1	16.1	18.4	19.3
47.5°	17.8	18.5	17.4	17.2	18.5	17.4	16.8	17.0	18.0	17.3	18.2
45°	29.5	28.6	26.6	26.4	25.5	24.7	21.4	23.0	23.3	22.2	19.2
42.5°	56.8	48.3	42.0	42.4	39.9	37.2	34.0	33.3	32.2	29.6	27.8
40°	86.8	86.2	77.9	68.7	62.7	54.9	51.4	47.1	44.5	40.7	39.7
37.5°	123.5	120.3	125.6	121.0	103.6	88.0	77.2	66.0	58.7	62.5	59.3
35°	183.1	179.7	188.4	179.6	166.2	159.1	123.0	96.1	87.2	96.8	87.0
32.5°	272.7	315.9	301.9	278.6	290.6	273.6	218.2	150.7	149.7	147.4	130.6
30°	534.8	572.9	553.1	490.2	506.8	471.2	355.9	332.9	279.1	212.5	185.7
27.5°	1165.5	950.2	916.1	902.9	800.8	733.9	676.4	609.4	470.0	344.8	257.9
25°	1994.5	1675.4	1447.7	1385.3	1259.1	1067.4	1034.8	952.1	780.5	524.1	354.6
22.5°	2956.7	2516.5	2149.9	1922.8	1720.7	1486.9	1365.0	1313.0	1128.4	748.8	511.7
20°	3938.6	3353.3	2854.6	2492.2	2128.8	1849.5	1688.9	1606.8	1377.8	1021.9	675.9
17.5°	6197.2	4401.9	3654.5	3103.0	2589.7	2209.0	2054.7	1860.0	1626.7	1286.6	835.6
15°	9718.4	6791.8	5030.1	3974.7	3216.4	2795.1	2529.4	2157.2	1871.1	1520.4	1083.9
12.5°	18225.0	10869.9	6708.3	5188.5	4208.6	3522.9	3084.9	2575.1	2147.0	1841.3	1451.7
10°	27488.8	16531.1	9972.0	6948.7	5404.6	4355.3	3622.7	2998.4	2506.2	2191.7	1815.2
7.5°	38683.4	22919.6	13440.1	8640.3	6476.3	5064.4	4094.9	3358.6	2839.9	2519.8	2168.9
5°	47777.9	27544.0	15555.1	9907.3	7375.4	5729.9	4577.2	3664.1	3149.8	2827.5	2506.1
2.5°	53417.6	30029.3	16804.9	10957.6	8126.0	6288.7	4973.2	3924.1	3390.5	3027.1	2693.4
0°	54810.7	31987.1	17786.5	10990.4	8497.1	6635.3	5211.4	4151.7	3591.8	3194.6	2851.7
-2.5°	54907.9	31451.9	17576.5	10886.1	8316.2	6563.1	5218.8	4261.0	3706.6	3281.2	2909.9
-5°	50695.5	28659.8	16319.1	10512.3	8045.0	6398.6	5202.5	4360.5	3793.7	3353.8	2930.6
-7.5°	45843.8	25289.7	14709.9	9914.4	7659.7	6181.1	5177.7	4441.1	3853.0	3433.4	2958.2
-10°	36878.2	21281.0	13252.2	9401.3	7305.1	5956.0	5148.9	4466.4	3896.0	3498.4	2941.6
-12.5°	31134.8	17832.8	11480.2	8694.6	7019.4	5863.5	5124.2	4418.6	3925.4	3550.3	2877.8
-15°	23242.4	14870.9	10428.1	8169.8	6786.4	5741.1	5029.6	4278.6	3818.0	3524.2	2764.6
-17.5°	17312.4	11827.5	8930.4	7301.4	6224.5	5566.8	4836.0	4127.1	3634.4	3257.9	2477.6
-20°	11698.1	9196.7	7671.5	6417.8	5503.1	4957.5	4456.6	3862.1	3408.0	2877.3	2114.7



REPORT NUMBER: P701492 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-3S-CV2-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	8675.7	7341.0	6264.6	5383.0	4773.6	4314.6	3893.2	3466.5	3127.9	2483.1	1744.5
-25°	6740.6	5805.2	5102.9	4631.1	4107.5	3682.2	3379.4	3117.0	2690.7	2071.1	1411.8
-27.5°	5408.3	4757.5	4381.2	4032.9	3626.9	3241.6	2989.9	2761.6	2250.4	1665.0	1302.6
-30°	4524.8	4233.4	3914.4	3583.6	3275.8	2966.2	2708.3	2295.0	1822.9	1350.0	1204.2
-32.5°	4047.4	3825.3	3546.3	3252.0	2991.7	2767.6	2360.6	1852.4	1419.7	1247.7	1122.8
-35°	3698.8	3471.2	3204.7	2986.1	2786.2	2442.0	1997.4	1502.4	1263.0	1153.0	1047.1
-37.5°	3378.7	3134.5	2948.5	2748.9	2452.9	2060.9	1569.7	1310.6	1174.1	1074.8	966.6
-40°	3171.0	2943.8	2650.8	2393.6	1991.4	1545.8	1349.1	1215.1	1108.3	992.3	880.7
-42.5°	2850.0	2557.1	2205.3	1802.8	1474.2	1355.6	1241.5	1141.2	1030.5	908.0	798.2
-45°	2236.0	1874.8	1545.6	1432.9	1323.9	1239.4	1158.5	1050.8	934.9	824.9	717.2
-47.5°	1566.9	1458.7	1357.6	1288.4	1219.5	1142.4	1047.6	944.3	842.0	741.5	656.8
-50°	1342.4	1301.6	1250.6	1185.7	1105.8	1020.6	933.4	842.2	754.4	675.7	595.3
-52.5°	1264.4	1204.7	1137.4	1061.5	984.0	906.8	825.9	756.4	683.5	609.7	533.7
-55°	1150.1	1087.3	1019.5	946.6	872.7	812.7	749.0	681.9	614.1	543.7	478.0
-57.5°	1032.9	974.3	916.1	855.8	793.7	731.5	669.0	606.4	545.6	483.4	423.7
-60°	939.7	885.3	829.2	769.1	704.9	643.2	589.8	534.5	477.4	427.7	376.7
-62.5°	851.2	796.7	737.3	676.5	618.8	565.5	515.0	466.8	422.1	376.8	318.9
-65°	727.0	675.1	624.5	575.1	527.4	481.9	439.4	392.9	345.3	300.1	249.9
-67.5°	582.0	544.6	505.9	463.9	417.3	372.6	330.1	290.0	251.6	213.7	170.1
-70°	413.6	379.8	344.4	309.5	277.6	246.5	214.7	183.0	151.6	127.4	102.4
-72.5°	243.1	219.8	196.3	173.0	148.6	131.4	116.0	99.9	82.4	63.7	49.6
-75°	119.6	108.5	97.1	86.0	73.9	60.8	53.8	49.8	45.6	41.3	36.7
-77.5°	59.6	55.0	50.7	47.6	44.4	41.3	38.2	35.0	32.5	30.2	28.1
-80°	38.6	36.0	33.5	32.0	30.4	28.6	26.8	25.3	23.9	22.6	21.4
-82.5°	25.3	23.9	22.4	21.4	20.3	19.1	18.0	17.2	16.4	15.6	14.8
-85°	16.7	15.6	14.4	13.8	13.2	12.7	12.2	12.2	12.2	12.3	12.4
-87.5°	11.5	10.5	9.5	9.5	9.4	9.4	9.3	9.8	10.2	10.6	11.0
-90°	2.9	3.4	3.9	4.4	4.9	5.3	5.8	6.3	6.8	7.2	7.7



REPORT NUMBER: P701492 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-3S-CV2-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	9.7	9.7	9.7	9.7	10.2	10.7	11.1	11.6	11.1	10.7	10.2
87.5°	7.7	7.7	7.7	7.7	8.2	8.7	9.2	9.7	9.7	9.7	9.7
85°	7.9	8.0	8.0	8.0	8.3	8.7	9.2	9.7	9.7	9.7	9.7
82.5°	8.2	8.7	9.0	9.1	9.1	9.2	9.4	9.7	9.8	9.7	9.7
80°	8.3	8.8	9.3	9.7	9.7	9.7	9.6	9.7	10.0	10.1	10.0
77.5°	8.3	8.8	9.3	9.7	9.7	9.7	9.7	9.8	10.2	10.4	10.4
75°	8.4	8.9	9.4	9.7	9.7	9.7	9.7	9.8	10.3	10.8	10.9
72.5°	9.3	9.3	9.5	9.7	9.7	9.7	9.7	9.9	10.4	10.8	11.3
70°	10.7	9.9	9.7	9.9	9.9	9.7	9.7	10.0	10.4	10.9	11.3
67.5°	12.6	11.4	10.5	10.2	10.3	10.2	9.8	10.0	10.5	10.9	11.4
65°	20.9	15.2	11.5	11.1	10.9	10.9	10.6	10.3	10.5	11.0	11.4
62.5°	28.5	20.7	15.6	12.5	11.4	11.3	11.5	10.9	10.7	11.1	11.5
60°	35.6	26.7	19.8	15.8	12.9	11.5	11.6	11.4	11.1	11.1	11.5
57.5°	33.0	31.0	25.2	19.3	15.3	12.6	11.6	11.6	11.4	11.3	11.6
55°	28.1	27.1	27.8	23.3	17.8	14.3	12.1	11.6	11.6	11.5	11.6
52.5°	22.9	24.3	26.4	25.4	20.6	15.9	13.4	11.6	11.6	11.6	11.6
50°	18.9	21.9	25.2	25.8	22.7	18.0	14.6	12.5	11.6	11.6	11.7
47.5°	18.9	21.4	23.6	26.3	24.3	19.7	15.9	13.4	11.6	11.6	11.9
45°	21.8	23.0	23.8	25.5	26.0	21.0	17.0	14.1	12.2	11.7	12.0
42.5°	26.7	27.1	26.4	25.1	25.9	22.0	17.9	14.8	12.8	11.8	12.2
40°	36.8	33.2	30.5	29.7	26.9	22.7	18.5	15.3	13.3	12.1	12.3
37.5°	48.9	42.8	37.3	38.3	30.9	24.8	18.7	15.6	13.9	12.7	12.4
35°	71.2	55.5	53.1	51.7	41.5	28.0	18.7	15.7	14.7	13.2	12.5
32.5°	97.9	82.4	79.8	69.4	55.0	32.4	20.7	17.0	15.6	13.8	12.7
30°	148.1	133.1	114.1	90.5	71.6	44.9	25.6	18.8	16.6	14.3	12.9
27.5°	228.3	192.8	157.5	122.2	91.7	60.1	31.8	20.9	17.7	14.9	13.3
25°	314.2	266.4	214.9	161.1	113.9	81.9	38.0	23.5	19.2	15.8	13.7
22.5°	404.8	345.8	278.1	204.6	145.9	107.8	49.9	28.7	21.2	16.7	14.1
20°	497.0	427.9	348.9	256.7	185.4	135.1	69.4	33.7	23.2	17.6	14.4
17.5°	598.6	527.8	440.3	322.4	228.3	163.8	90.6	38.5	25.5	18.5	14.8
15°	792.7	648.9	540.5	393.9	270.7	193.2	113.1	43.1	27.8	19.5	15.2
12.5°	1029.3	771.3	646.9	469.3	312.1	223.1	136.1	47.4	30.1	21.1	15.6
10°	1289.6	893.7	757.1	546.5	352.3	252.7	159.1	55.0	34.8	23.4	16.0
7.5°	1562.4	1014.9	868.1	623.3	395.4	294.5	204.0	70.5	39.8	25.9	16.4
5°	1816.1	1124.3	978.1	719.0	462.5	348.3	252.4	86.6	44.8	28.3	16.7
2.5°	1967.6	1213.2	1081.4	811.8	527.2	400.1	299.3	102.7	49.6	30.7	17.1
0°	2090.4	1296.1	1176.0	897.0	588.9	449.5	342.9	118.2	54.2	32.9	17.4
-2.5°	2115.6	1343.3	1208.8	945.4	646.7	497.8	378.1	143.7	72.0	43.7	23.2
-5°	2110.5	1384.8	1234.2	985.3	700.1	542.7	407.4	167.4	89.1	54.0	28.7
-7.5°	2104.2	1404.6	1247.4	1014.2	748.4	583.4	430.3	189.0	105.1	63.6	33.9
-10°	2058.2	1409.0	1244.2	1010.2	758.7	600.1	443.0	208.0	119.7	72.3	38.5
-12.5°	1958.2	1408.2	1235.4	997.5	756.1	594.8	429.8	221.3	132.4	79.8	42.4
-15°	1798.9	1402.2	1221.9	975.8	745.7	586.0	414.2	230.6	142.7	86.6	45.5
-17.5°	1565.3	1391.2	1204.2	945.4	726.9	573.9	397.2	237.3	151.3	92.7	48.4
-20°	1455.4	1337.7	1179.0	906.1	699.3	558.3	379.7	241.1	158.1	97.1	50.8



REPORT NUMBER: P701492 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-3S-CV2-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1374.2	1249.4	1087.9	869.8	669.7	539.4	362.3	242.0	163.1	99.8	52.1
-25°	1280.1	1158.5	990.9	803.0	645.0	511.9	353.0	240.0	166.0	100.5	52.1
-27.5°	1178.4	1062.5	898.9	736.4	608.4	487.0	348.7	242.2	166.9	99.3	50.7
-30°	1076.1	962.3	820.7	676.4	570.2	453.0	340.7	242.1	165.2	97.2	48.0
-32.5°	997.6	871.4	747.5	632.4	530.2	418.5	321.6	239.3	160.7	93.9	45.9
-35°	923.7	797.7	678.9	587.3	490.2	389.6	299.3	233.8	153.3	88.5	43.4
-37.5°	846.8	730.7	629.1	542.6	450.7	358.5	281.2	216.4	143.0	81.0	39.8
-40°	772.6	669.1	581.7	500.3	413.4	325.1	261.4	196.6	131.9	71.4	35.0
-42.5°	698.2	615.4	535.0	458.6	374.7	301.1	239.6	175.4	116.2	63.1	29.0
-45°	638.0	560.5	486.5	413.1	336.0	275.5	214.8	153.3	98.6	54.9	24.5
-47.5°	576.0	505.0	437.4	367.5	305.9	247.8	188.6	132.1	79.9	45.1	23.1
-50°	513.5	450.8	389.6	329.9	274.1	217.7	161.6	109.3	66.6	33.5	21.3
-52.5°	461.7	401.9	346.8	293.7	240.0	186.2	134.4	86.0	52.3	28.0	19.2
-55°	414.1	355.9	305.9	255.2	204.3	153.9	105.7	68.6	37.1	25.0	17.1
-57.5°	368.7	311.7	262.7	214.9	166.4	119.9	81.4	50.1	30.4	21.6	16.8
-60°	322.1	265.7	217.8	171.1	126.2	88.9	59.3	35.3	26.1	18.7	16.5
-62.5°	265.1	214.6	166.6	124.1	90.3	62.2	39.1	29.8	21.4	18.0	16.0
-65°	200.2	154.1	113.3	85.2	58.9	39.7	32.1	23.9	19.5	17.1	15.5
-67.5°	128.9	100.0	72.9	48.7	38.7	32.0	24.8	20.8	18.2	16.2	15.0
-70°	77.1	53.3	42.2	36.4	30.5	24.9	21.6	18.9	16.7	15.4	14.4
-72.5°	43.8	38.2	33.1	28.1	24.9	21.9	19.1	16.9	15.6	14.6	13.8
-75°	32.1	29.2	26.7	24.1	21.4	18.9	17.0	15.5	14.5	13.7	13.2
-77.5°	25.9	23.8	21.9	20.2	18.4	16.7	15.2	14.0	13.4	13.0	12.6
-80°	20.1	18.9	17.9	17.1	15.7	14.5	13.6	13.0	12.6	12.3	12.0
-82.5°	14.3	14.4	14.5	14.4	13.7	13.0	12.5	12.1	11.9	11.6	11.5
-85°	12.5	12.4	12.3	12.2	11.9	11.6	11.6	11.6	11.5	11.3	11.0
-87.5°	11.0	10.9	10.9	10.8	10.9	11.1	11.3	11.6	11.3	11.0	10.6
-90°	7.7	7.7	7.7	7.7	8.2	8.7	9.2	9.7	9.7	9.7	9.7



REPORT NUMBER: P701492 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	9.7	9.7	9.7	9.7	9.7	9.7	9.7
87.5°	9.7	9.8	9.9	9.9	9.9	9.7	9.7
85°	9.7	9.9	10.0	10.1	10.0	9.8	9.7
82.5°	9.7	10.0	10.2	10.3	10.2	9.8	9.7
80°	9.8	10.1	10.4	10.5	10.3	9.9	9.7
77.5°	10.3	10.3	10.6	10.6	10.5	9.9	9.7
75°	10.8	10.6	10.7	10.8	10.6	9.9	9.7
72.5°	11.2	10.9	10.9	11.0	10.8	10.0	9.7
70°	11.6	11.2	11.1	11.2	10.9	10.0	9.7
67.5°	11.6	11.5	11.2	11.3	11.0	10.0	9.7
65°	11.6	11.6	11.4	11.3	11.2	10.1	9.7
62.5°	11.6	11.6	11.5	11.4	11.3	10.1	9.7
60°	11.6	11.6	11.6	11.5	11.3	10.1	9.7
57.5°	11.6	11.6	11.6	11.5	11.3	10.1	9.7
55°	11.6	11.6	11.6	11.5	11.3	10.1	9.7
52.5°	11.6	11.6	11.6	11.6	11.3	10.2	9.7
50°	11.6	11.6	11.6	11.6	11.3	10.2	9.7
47.5°	11.6	11.6	11.6	11.6	11.3	10.2	9.7
45°	11.8	11.6	11.6	11.6	11.3	10.2	9.7
42.5°	12.0	11.6	11.6	11.6	11.3	10.2	9.7
40°	12.2	11.6	11.6	11.6	11.3	10.2	9.7
37.5°	12.4	11.6	11.6	11.6	11.3	10.2	9.7
35°	12.7	11.7	11.6	11.6	11.3	10.1	9.7
32.5°	13.0	11.9	11.6	11.6	11.3	10.1	9.7
30°	13.1	12.2	11.6	11.6	11.3	10.1	9.7
27.5°	13.2	12.4	11.6	11.6	11.4	10.1	9.7
25°	13.3	12.6	11.6	11.6	11.4	10.1	9.7
22.5°	13.4	12.8	11.6	11.6	11.4	10.0	9.7
20°	13.6	13.0	11.6	11.6	11.4	10.0	9.7
17.5°	13.7	13.1	11.6	11.6	11.5	10.0	9.7
15°	13.9	13.3	11.6	11.6	11.5	9.9	9.7
12.5°	14.1	13.4	11.6	11.6	11.5	9.9	9.7
10°	14.4	13.4	11.6	11.6	11.6	9.9	9.7
7.5°	14.7	13.5	11.6	11.6	11.6	9.8	9.7
5°	15.0	13.6	11.6	11.6	11.6	9.8	9.7
2.5°	15.2	13.6	11.6	11.6	11.6	9.7	9.7
0°	15.5	13.6	11.6	11.6	11.6	9.7	9.7
-2.5°	17.0	13.6	11.6	11.6	11.6	9.7	9.7
-5°	18.5	13.6	11.6	11.6	11.6	9.7	9.7
-7.5°	19.8	13.5	11.6	11.6	11.6	9.7	9.7
-10°	20.9	13.4	11.6	11.6	11.5	9.7	9.7
-12.5°	21.8	13.4	11.6	11.6	11.5	9.7	9.7
-15°	22.4	13.3	11.6	11.6	11.5	9.7	9.7
-17.5°	22.6	13.1	11.6	11.6	11.4	9.7	9.7
-20°	23.0	13.0	11.6	11.6	11.4	9.7	9.7



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 CATALOG NUMBER: EPH-LS-08-0640L-40-80-3S-CV2-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	23.6	12.8	11.6	11.6	11.3	9.7	9.7
-25°	23.7	13.0	11.6	11.6	11.2	9.7	9.7
-27.5°	23.0	13.3	11.6	11.6	11.2	9.7	9.7
-30°	21.7	13.4	11.6	11.6	11.1	9.7	9.7
-32.5°	19.6	13.4	11.8	11.6	11.0	9.7	9.7
-35°	18.8	13.3	11.9	11.6	10.9	9.7	9.7
-37.5°	18.6	13.1	12.1	11.6	10.8	9.7	9.7
-40°	18.2	13.3	12.2	11.6	10.7	9.7	9.7
-42.5°	17.5	13.4	12.3	11.6	10.6	9.7	9.7
-45°	16.6	13.5	12.4	11.7	10.5	9.7	9.7
-47.5°	15.4	13.6	12.4	11.7	10.4	9.7	9.7
-50°	15.2	13.6	12.4	11.6	10.2	9.7	9.7
-52.5°	15.2	13.6	12.4	11.5	10.1	9.7	9.7
-55°	15.1	13.5	12.4	11.3	10.0	9.7	9.7
-57.5°	14.9	13.4	12.4	11.1	9.8	9.7	9.7
-60°	14.7	13.3	12.3	10.9	9.7	9.7	9.7
-62.5°	14.5	13.2	12.1	10.7	9.7	9.7	9.7
-65°	14.2	13.0	11.8	10.6	9.7	9.7	9.7
-67.5°	13.8	12.7	11.5	10.3	9.7	9.7	9.7
-70°	13.5	12.4	11.2	10.1	9.7	9.7	9.7
-72.5°	13.0	12.0	10.9	10.1	9.7	9.7	9.7
-75°	12.6	11.6	10.6	10.0	9.7	9.7	9.7
-77.5°	12.1	11.2	10.5	10.0	9.7	9.7	9.7
-80°	11.6	10.9	10.3	9.9	9.7	9.7	9.7
-82.5°	11.2	10.6	10.2	9.9	9.7	9.7	9.7
-85°	10.7	10.3	10.0	9.8	9.7	9.7	9.7
-87.5°	10.2	10.0	9.9	9.8	9.7	9.7	9.7
-90°	9.7	9.7	9.7	9.7	9.7	9.7	9.7

(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

