

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: P701469 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-40-70-3S-CV5-S**

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701469 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-16)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0640L-40-70-3S-CV5-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 3S BEAM SHAPE WITH 5 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

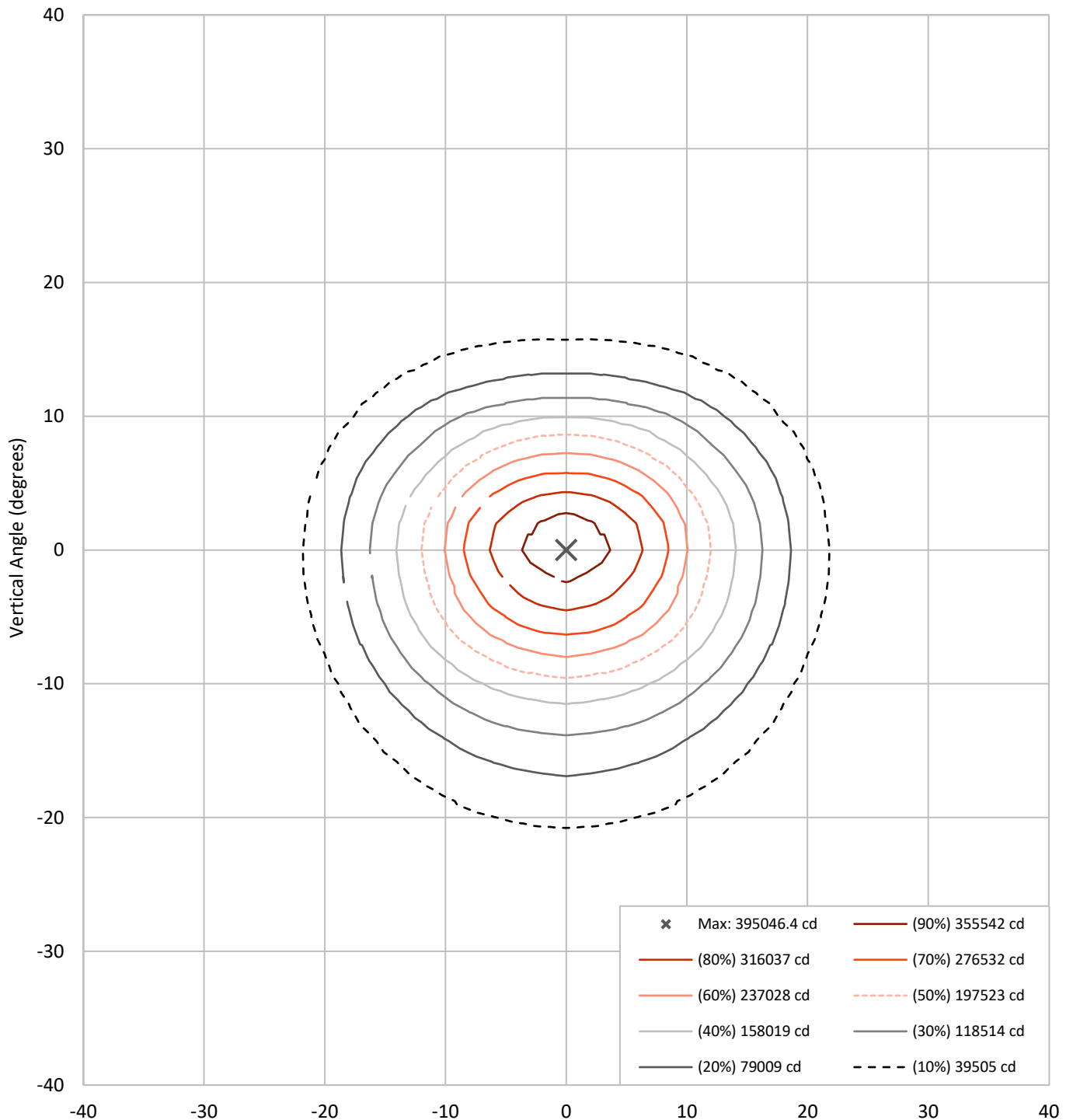
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	66041.9 lumens	Max Intensity:	395046.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	100.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	24°H x 18.2°V	Field Angle (10%):	43.7°H x 36.4°V
Beam Lumens:	28251.2 lumens	Field Lumens:	56439.4 lumens
Beam Efficiency:	42.8%	Field Efficiency:	85.5%

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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Iso-Candela Plot





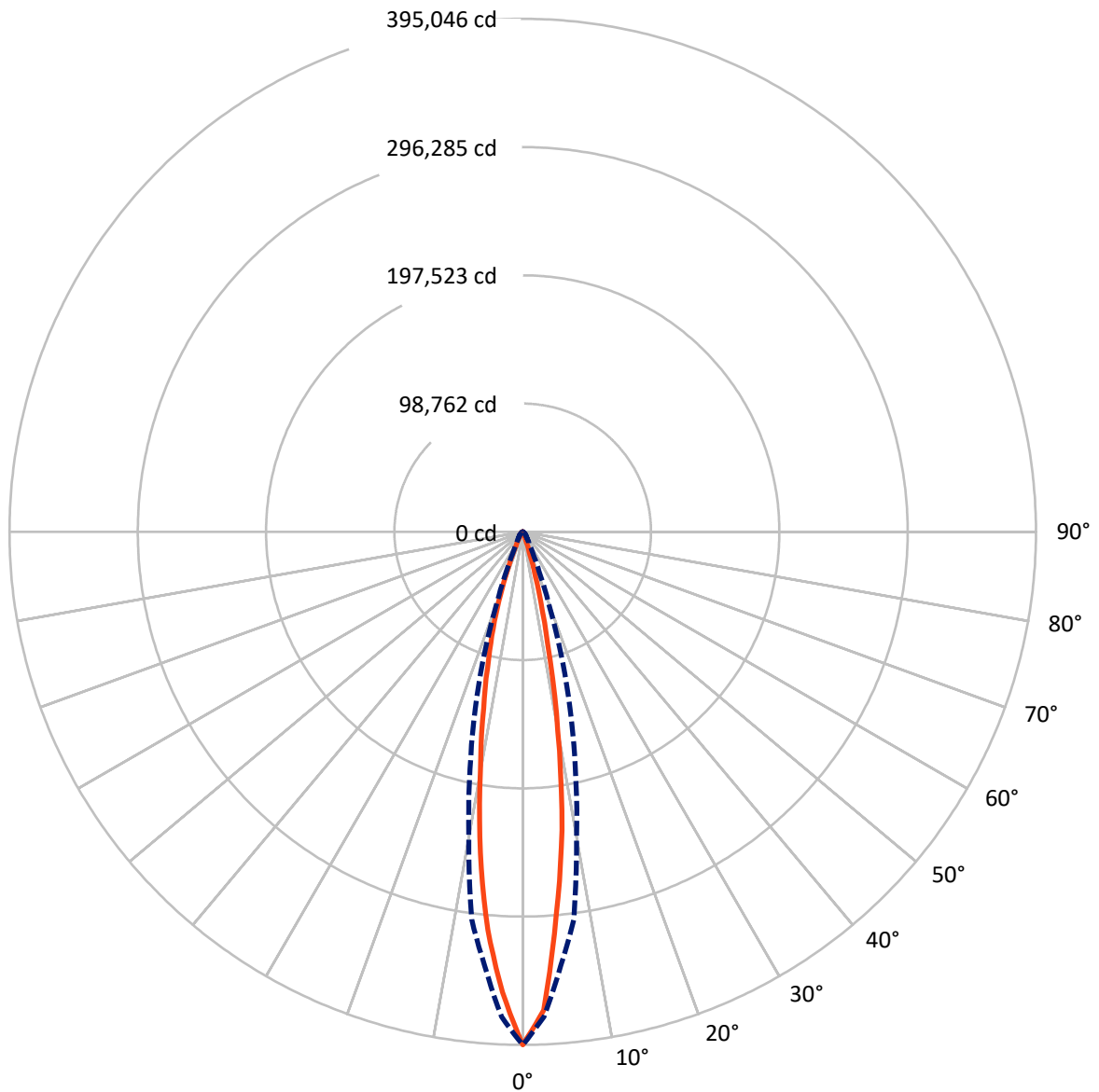
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Lumen Table

90	0.2		0.5		0.8		0.9		1.0		0.9		0.8		0.5		0.2	
80	0.2		0.5		0.8		0.9		1.0		0.9		0.8		0.5		0.2	
70	0.2	0.1	0.2	0.8	0.9	0.5	0.3	0.3	0.3	0.3	0.5	0.9	0.8	0.2	0.1	0.2		
60		0.1	0.4	0.7	0.5	0.3	0.2	0.2	0.2	0.2	0.3	0.5	0.7	0.4	0.1			
50	0.2	0.2	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.2	0.2		
40		0.3	0.7	1.0	1.8	2.6	3.2	4.2	4.2	3.2	2.6	1.8	1.0	0.7	0.3			
30	0.3	0.5	1.9	4.6	8.7	13.3	30.0	60.4	60.4	30.0	13.3	8.7	4.6	1.9	0.5	0.3		
20		1.3	6.8	21.7	47.6	127.6	707.4	1618.8	1618.8	707.4	127.6	47.6	21.7	6.8	1.3			
10	0.4	2.4	14.2	51.3	119.8	526.7	3303.8	7711.7	7711.7	3303.8	526.7	119.8	51.3	14.2	2.4	0.4		
0		3.2	17.0	60.1	134.3	561.4	3523.7	7942.8	7942.8	3523.7	561.4	134.3	60.1	17.0	3.2			
-10	0.7	3.4	14.6	45.6	95.4	242.0	1279.4	2879.3	2879.3	1279.4	242.0	95.4	45.6	14.6	3.4	0.7		
-20		3.3	11.8	28.6	67.4	114.2	247.7	498.2	498.2	247.7	114.2	67.4	28.6	11.8	3.3			
-30	0.5	3.0	9.4	20.0	43.6	78.7	107.0	124.8	124.8	107.0	78.7	43.6	20.0	9.4	3.0	0.5		
-40		2.1	7.0	15.2	27.1	44.2	67.7	85.1	85.1	67.7	44.2	27.1	15.2	7.0	2.1			
-50	0.3	1.0	4.2	9.6	17.2	25.3	32.0	36.0	36.0	32.0	25.3	17.2	9.6	4.2	1.0	0.3		
-60		0.4	1.4	4.1	7.8	11.9	16.0	18.5	18.5	16.0	11.9	7.8	4.1	1.4	0.4			
-70	0.2		1.0		3.2		8.5		13.1		8.5		3.2		1.0		0.2	
-80	0.2		1.0		3.2		8.5		13.1		8.5		3.2		1.0		0.2	
-90	0.2		1.0		3.2		8.5		13.1		8.5		3.2		1.0		0.2	

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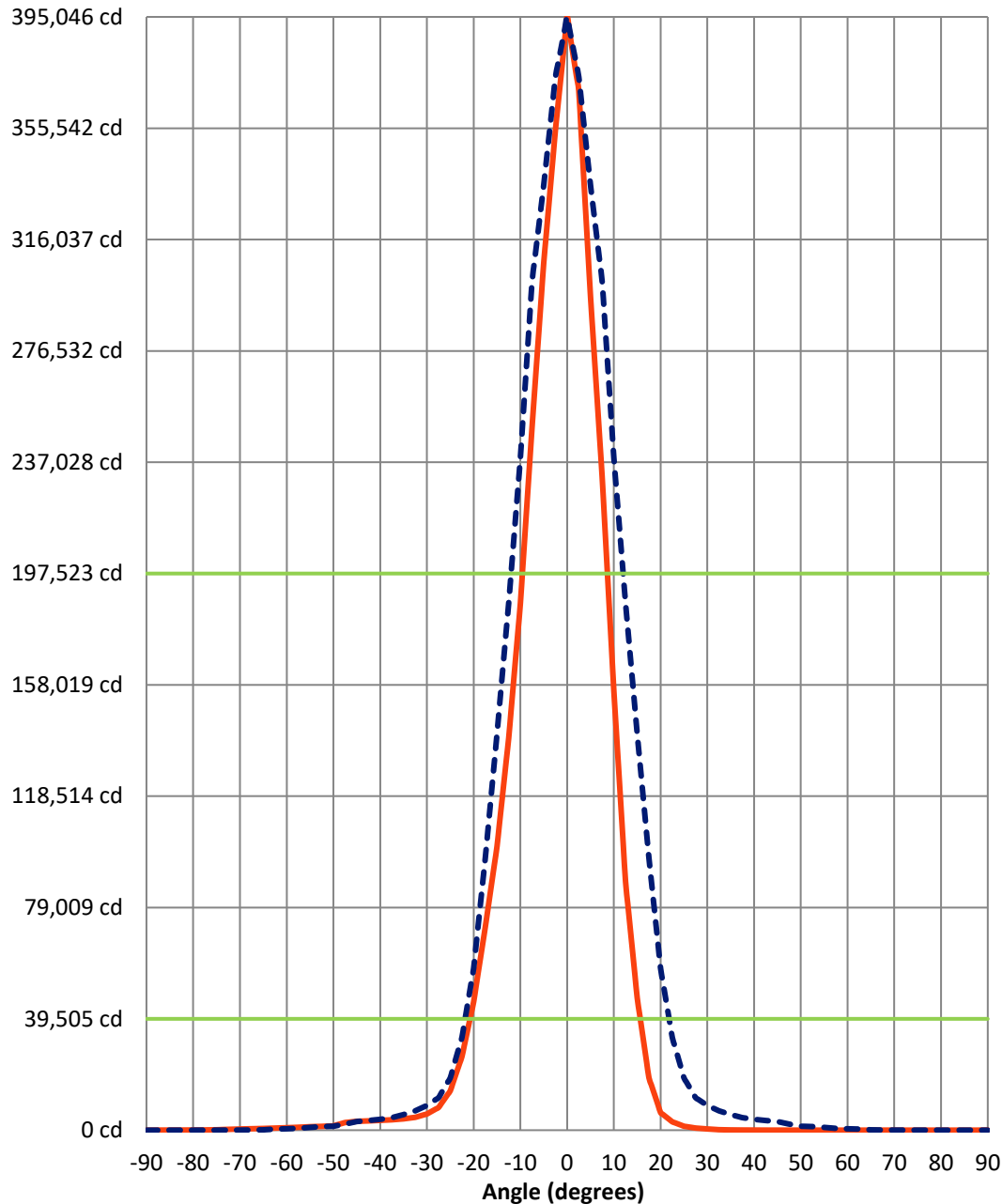
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 24°
 V Angle: 18.2°
 Lumens: 28251.2
 Efficiency: 42.8%

Field:
 H Angle: 43.7°
 V Angle: 36.4°
 Lumens: 56439.4
 Efficiency: 85.5%

Spill:
 Lumens: 9602.5
 Efficiency: 14.5%

— 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°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
87.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
85°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
82.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
80°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
77.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
75°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
72.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
70°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	9.0
67.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.4	8.3	8.3	9.1	9.8
65°	8.3	8.3	8.3	8.3	8.3	8.4	8.4	8.3	9.0	9.8	10.2
62.5°	8.3	8.3	8.3	8.3	8.3	8.5	8.6	8.7	9.6	10.3	9.6
60°	8.3	8.3	8.3	8.3	8.3	8.7	8.7	9.3	10.3	10.0	9.1
57.5°	8.3	8.3	8.3	8.3	8.5	8.9	9.1	9.8	10.3	9.7	9.0
55°	8.3	8.3	8.4	8.3	8.7	9.1	9.5	10.3	10.2	9.6	9.2
52.5°	8.3	8.3	8.4	8.3	8.9	9.4	9.9	10.4	10.2	9.7	9.3
50°	8.3	8.3	8.4	8.3	9.2	9.6	10.2	10.5	10.3	9.9	11.3
47.5°	8.3	8.3	8.5	8.3	9.4	9.8	10.4	10.7	10.4	10.0	13.0
45°	8.3	8.3	8.6	8.5	9.7	10.0	10.6	10.9	10.6	11.0	14.3
42.5°	8.3	8.3	8.6	8.7	9.9	10.2	10.8	11.1	10.9	11.7	15.7
40°	8.3	8.3	8.7	9.0	10.1	10.3	11.0	11.4	11.4	12.2	17.1
37.5°	8.3	8.3	8.8	9.2	10.2	10.4	11.3	11.7	12.2	13.5	18.3
35°	8.3	8.3	8.9	9.4	10.3	10.5	11.6	12.1	13.2	15.7	19.0
32.5°	8.3	8.3	9.0	9.6	10.3	10.8	11.9	12.5	14.1	17.9	20.9
30°	8.3	8.3	9.1	9.8	10.4	11.0	12.2	13.1	15.1	20.3	23.1
27.5°	8.3	8.3	9.2	9.9	10.4	11.2	12.6	13.9	16.5	22.6	25.8
25°	8.3	8.3	9.3	10.0	10.4	11.5	13.0	14.7	18.4	24.9	29.1
22.5°	8.3	8.3	9.4	10.1	10.4	11.7	13.3	15.5	20.3	27.4	35.0
20°	8.3	8.3	9.5	10.2	10.4	11.9	13.7	16.4	22.2	30.0	41.6
17.5°	8.3	8.3	9.6	10.3	10.4	12.0	14.0	17.2	24.1	32.8	48.7
15°	8.3	8.3	9.7	10.3	10.4	12.1	14.2	18.1	25.9	35.7	56.1
12.5°	8.3	8.3	9.9	10.4	10.4	12.2	14.3	19.2	27.9	38.7	63.6
10°	8.3	8.3	10.0	10.4	10.4	12.3	14.4	20.4	30.1	43.6	72.9
7.5°	8.3	8.3	10.1	10.4	10.4	12.4	14.5	21.6	32.2	49.0	85.9
5°	8.3	8.3	10.2	10.4	10.4	12.5	14.6	22.8	34.2	54.4	98.9
2.5°	8.3	8.3	10.3	10.4	10.4	12.5	14.6	24.0	36.0	59.7	111.4
0°	8.3	8.3	10.4	10.4	10.4	12.5	14.6	25.0	37.6	64.7	123.1
-2.5°	8.3	8.3	10.4	10.4	10.6	13.0	16.5	29.8	47.7	79.5	141.0
-5°	8.3	8.3	10.4	10.4	10.8	13.4	18.4	34.4	57.4	93.7	157.5
-7.5°	8.3	8.3	10.4	10.4	10.9	13.8	20.1	38.6	66.4	106.8	172.6
-10°	8.3	8.3	10.3	10.4	11.1	14.1	21.7	42.3	74.4	118.9	186.1
-12.5°	8.3	8.3	10.3	10.4	11.2	14.4	23.0	45.4	81.4	129.6	198.4
-15°	8.3	8.3	10.3	10.4	11.3	14.7	24.0	47.8	87.8	139.5	209.0
-17.5°	8.3	8.3	10.2	10.4	11.4	14.8	24.7	50.5	93.7	147.9	217.6
-20°	8.3	8.3	10.1	10.4	11.5	14.9	25.5	53.0	98.2	154.8	223.9



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 CATALOG NUMBER: EPH-LS-08-0640L-40-70-3S-CV5-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	8.3	8.3	10.1	10.4	11.5	15.0	26.2	54.4	101.1	160.2	227.8
-25°	8.3	8.3	10.0	10.4	11.5	15.1	26.4	54.5	102.2	163.9	229.4
-27.5°	8.3	8.3	9.9	10.4	11.5	15.2	25.8	53.3	101.5	165.5	232.5
-30°	8.3	8.3	9.8	10.4	11.4	15.2	24.5	50.7	99.8	164.3	233.7
-32.5°	8.3	8.3	9.7	10.4	11.4	15.1	22.4	48.8	96.6	160.6	232.6
-35°	8.3	8.3	9.6	10.4	11.4	14.9	21.5	46.3	91.4	154.3	229.2
-37.5°	8.3	8.3	9.5	10.4	11.3	14.6	21.1	42.6	84.1	145.3	213.8
-40°	8.3	8.3	9.4	10.4	11.2	14.5	20.6	37.7	74.7	134.9	194.9
-42.5°	8.3	8.3	9.3	10.4	11.1	14.3	19.9	31.6	66.5	118.5	174.1
-45°	8.3	8.3	9.2	10.4	11.1	14.0	19.0	27.0	58.0	100.1	151.6
-47.5°	8.3	8.3	9.0	10.4	11.1	13.6	17.9	25.6	47.8	80.6	129.5
-50°	8.3	8.3	8.9	10.3	11.0	13.2	17.2	24.1	35.4	66.5	105.9
-52.5°	8.3	8.3	8.8	10.1	10.9	12.6	16.5	22.2	29.8	51.8	81.9
-55°	8.3	8.3	8.6	9.9	10.8	12.3	15.7	20.3	27.0	36.4	64.6
-57.5°	8.3	8.3	8.5	9.7	10.6	12.0	14.7	19.1	24.2	30.4	46.7
-60°	8.3	8.3	8.3	9.5	10.4	11.6	13.7	17.6	21.5	27.1	33.0
-62.5°	8.3	8.3	8.3	9.3	10.2	11.2	13.0	16.1	19.8	23.8	29.2
-65°	8.3	8.3	8.3	9.1	10.0	10.7	12.3	14.7	18.0	21.5	25.4
-67.5°	8.3	8.3	8.3	9.0	9.8	10.3	11.4	13.6	16.2	19.4	22.6
-70°	8.3	8.3	8.3	8.8	9.7	10.2	10.5	12.5	14.9	17.3	20.3
-72.5°	8.3	8.3	8.3	8.7	9.5	10.1	10.4	11.4	13.7	15.9	18.0
-75°	8.3	8.3	8.3	8.7	9.3	10.0	10.4	11.0	12.4	14.4	16.4
-77.5°	8.3	8.3	8.3	8.6	9.2	9.9	10.3	10.8	11.7	13.1	14.8
-80°	8.3	8.3	8.3	8.6	9.0	9.6	10.4	10.6	11.1	12.0	13.2
-82.5°	8.3	8.3	8.3	8.5	8.8	9.3	9.9	10.2	10.4	10.8	11.5
-85°	8.3	8.3	8.3	8.4	8.7	9.0	9.4	9.6	9.7	9.9	10.1
-87.5°	8.3	8.3	8.3	8.4	8.5	8.6	8.8	8.9	9.0	9.1	9.2
-90°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3



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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°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.8	9.4	9.9
87.5°	8.0	7.8	7.6	7.4	7.2	6.9	6.6	6.3	6.3	6.3	6.3
85°	8.3	8.3	8.3	8.3	7.8	7.3	6.8	6.3	6.3	6.3	6.3
82.5°	8.3	8.3	8.3	8.3	7.8	7.3	6.9	6.6	6.6	6.6	6.5
80°	8.3	8.3	8.3	8.3	8.1	7.9	7.9	8.0	7.8	7.4	6.9
77.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	7.9	7.4	6.9
75°	8.3	8.3	8.4	8.4	8.3	8.3	8.3	8.3	8.1	8.0	8.0
72.5°	8.6	8.9	8.9	8.6	8.3	8.3	8.3	8.3	9.8	11.9	13.5
70°	9.5	9.6	9.0	8.5	8.3	8.9	11.4	14.9	18.7	21.3	24.8
67.5°	10.1	9.2	8.5	8.5	10.0	12.9	16.9	25.8	35.7	39.6	40.7
65°	9.3	8.5	8.8	10.2	12.3	19.7	29.5	41.1	49.5	48.9	46.4
62.5°	8.5	8.6	9.7	13.1	19.8	29.0	37.9	46.0	54.0	51.9	44.5
60°	8.5	8.8	12.8	19.6	26.7	33.4	41.8	46.3	50.0	49.8	39.4
57.5°	8.6	11.2	18.1	24.8	30.4	35.6	38.2	41.4	42.7	42.8	32.0
55°	10.0	15.5	22.1	27.8	32.0	31.3	32.3	32.7	32.8	30.6	21.8
52.5°	13.3	19.1	24.5	29.5	30.5	27.4	24.0	24.1	22.5	19.0	15.7
50°	16.0	21.2	26.5	29.8	28.5	22.8	17.7	17.6	16.0	13.9	12.0
47.5°	18.0	23.2	28.3	30.1	25.4	20.7	16.3	14.2	12.7	12.2	10.9
45°	19.7	24.7	30.1	28.1	23.9	20.4	16.8	12.5	13.1	12.9	13.4
42.5°	21.3	25.8	28.8	26.8	24.4	21.8	18.6	16.1	15.0	16.5	17.2
40°	22.0	26.5	27.9	28.3	25.9	24.6	24.1	22.3	19.3	22.0	22.8
37.5°	22.3	26.4	29.0	32.5	29.4	30.2	31.4	31.9	30.1	29.4	33.1
35°	22.3	27.1	35.0	39.1	36.6	38.3	41.9	43.7	43.7	42.9	49.2
32.5°	22.8	28.6	43.3	46.7	49.4	51.6	54.1	58.0	61.5	65.6	76.0
30°	25.8	36.3	52.7	55.4	65.3	75.5	72.6	74.6	82.8	108.9	131.7
27.5°	32.1	46.8	60.9	69.4	85.3	106.8	113.5	100.4	124.1	164.7	203.3
25°	39.6	75.8	69.8	86.5	116.2	148.4	166.4	164.4	187.7	238.9	284.8
22.5°	55.6	113.7	110.1	105.2	152.0	199.4	230.2	283.6	358.8	358.5	375.1
20°	83.5	149.8	160.9	174.9	205.1	258.0	302.0	443.4	600.2	653.4	595.4
17.5°	116.1	189.7	218.9	266.0	333.1	367.3	392.4	634.5	899.5	1004.5	1037.4
15°	152.4	232.6	280.8	367.9	475.0	535.6	642.5	919.2	1232.2	1410.1	1542.5
12.5°	191.2	277.8	345.6	478.1	627.1	707.3	944.3	1344.7	1656.5	1871.2	2207.5
10°	231.0	324.4	412.3	593.7	786.2	881.0	1267.3	1783.0	2108.7	2357.1	2817.4
7.5°	275.0	370.9	478.6	711.7	948.8	1055.4	1601.0	2224.6	2549.4	2826.2	3346.3
5°	317.8	415.5	538.0	812.1	1079.0	1202.6	1901.9	2658.0	2977.6	3278.0	3823.9
2.5°	357.3	458.2	595.0	904.5	1182.4	1305.5	2046.8	2878.6	3226.9	3599.7	4184.7
0°	392.2	498.6	648.8	988.9	1276.8	1404.1	2161.4	3068.9	3429.8	3853.3	4447.9
-2.5°	399.6	514.6	668.0	987.6	1264.2	1401.6	2172.5	3077.3	3499.7	3947.4	4529.2
-5°	401.5	527.5	682.7	977.8	1243.2	1393.5	2150.1	3046.2	3511.3	3924.5	4448.5
-7.5°	398.8	536.7	692.8	958.4	1202.3	1347.2	2023.3	2857.4	3327.7	3687.7	4180.5
-10°	391.6	535.4	681.5	914.8	1137.1	1276.9	1849.8	2639.6	3136.5	3446.5	3875.8
-12.5°	379.1	525.4	663.5	868.1	1071.1	1205.2	1647.7	2398.3	2942.8	3207.5	3554.8
-15°	365.0	513.5	642.3	819.8	1006.7	1133.0	1418.2	2138.0	2758.2	3027.8	3285.9
-17.5°	350.4	500.1	618.2	771.4	945.7	1061.4	1170.5	1861.4	2524.7	2844.5	3093.9
-20°	336.1	485.4	591.3	724.5	888.3	1005.9	1095.5	1581.2	2196.7	2641.5	2891.9



REPORT NUMBER: P701469 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-3S-CV5-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	322.7	469.7	565.9	688.0	837.8	961.8	1052.5	1307.0	1850.5	2420.7	2691.3
-25°	317.8	447.2	545.2	656.2	789.4	917.2	1010.7	1074.3	1523.5	2087.9	2500.2
-27.5°	318.0	428.3	525.3	621.9	741.1	869.7	963.0	1028.6	1274.9	1760.8	2284.8
-30°	315.2	405.6	503.5	588.6	698.8	815.0	913.6	1004.2	1082.2	1471.2	1933.6
-32.5°	303.2	381.7	477.1	562.4	656.2	762.3	873.2	970.1	1054.7	1181.2	1600.2
-35°	287.1	362.0	448.4	534.5	613.0	715.3	824.4	930.3	1020.1	1098.7	1289.8
-37.5°	272.5	339.5	418.8	503.6	580.8	668.5	771.8	878.0	974.5	1067.8	1154.2
-40°	255.7	314.5	390.5	470.4	547.3	623.9	717.3	817.6	919.3	1026.9	1130.9
-42.5°	236.5	293.8	360.5	435.6	508.7	583.7	660.3	754.6	856.9	970.7	1079.2
-45°	211.2	270.9	328.9	396.6	465.8	538.7	612.5	688.6	787.4	892.4	1005.9
-47.5°	183.7	244.4	300.8	355.0	420.1	488.1	559.9	634.6	712.6	808.3	910.2
-50°	155.0	211.5	268.7	317.7	372.2	434.9	501.0	575.1	649.5	724.6	811.3
-52.5°	126.9	176.2	229.8	280.8	327.8	380.3	441.5	508.7	579.8	651.8	718.9
-55°	97.3	142.1	188.4	238.1	285.8	330.3	379.7	440.0	503.6	570.5	631.8
-57.5°	73.4	107.2	148.3	191.7	237.8	283.0	326.1	369.8	424.7	483.7	536.3
-60°	52.8	77.3	108.8	147.0	186.4	229.1	272.5	313.2	353.3	392.0	439.1
-62.5°	34.6	53.8	76.0	102.7	137.7	173.7	212.1	251.4	290.4	324.0	354.9
-65°	30.3	34.8	49.8	69.9	89.7	122.1	154.7	186.0	220.3	251.2	281.0
-67.5°	25.9	30.0	34.0	41.0	59.0	79.1	100.2	128.8	156.0	178.1	200.2
-70°	23.0	25.4	28.7	32.3	36.0	44.2	61.9	80.3	98.4	115.5	134.4
-72.5°	20.3	22.5	24.6	26.7	30.0	33.8	37.8	41.9	52.0	65.7	78.8
-75°	18.0	19.5	21.4	23.3	25.3	27.6	30.2	33.6	36.8	39.7	42.3
-77.5°	16.0	17.1	18.4	19.9	21.5	23.2	25.1	27.1	29.2	31.4	33.7
-80°	13.9	14.6	15.4	16.4	17.7	19.1	20.4	21.7	22.9	24.4	26.0
-82.5°	12.0	12.5	13.0	13.4	14.2	15.2	16.3	17.4	17.7	18.1	18.7
-85°	10.2	10.4	10.7	11.0	11.4	11.9	12.4	13.0	13.1	13.2	13.2
-87.5°	9.3	9.3	9.4	9.5	9.6	9.6	9.7	9.8	10.0	10.2	10.3
-90°	7.8	7.3	6.8	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3



REPORT NUMBER: P701469 (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°	10.4	10.9	11.4	12.0	12.5	17.2	21.9	26.6	31.3	39.1	46.9
87.5°	6.3	5.8	5.3	4.7	4.2	3.7	3.2	2.6	2.1	2.1	2.1
85°	6.3	5.8	5.3	4.7	4.2	4.1	4.1	4.1	4.1	3.6	3.1
82.5°	6.3	5.8	5.3	4.8	4.2	4.2	4.2	4.2	4.2	3.7	3.2
80°	6.4	6.0	5.8	5.6	5.5	5.3	5.0	4.7	4.2	4.2	4.1
77.5°	6.6	6.6	6.7	6.6	6.4	5.9	5.3	4.8	4.3	4.2	4.2
75°	8.1	8.3	8.5	8.2	7.5	7.0	6.7	6.3	6.0	5.6	5.2
72.5°	14.6	14.7	14.0	13.5	12.2	11.6	11.7	11.6	11.2	11.0	10.9
70°	26.8	27.3	26.2	23.6	20.0	17.5	16.4	14.9	13.2	12.4	12.4
67.5°	38.1	34.9	31.5	28.0	23.5	19.6	17.4	15.3	13.3	12.3	11.7
65°	41.7	34.1	28.5	24.0	20.6	17.7	15.3	13.0	10.8	9.3	8.8
62.5°	36.3	27.1	21.5	18.2	15.8	14.2	11.9	9.8	8.0	7.0	7.3
60°	29.5	20.0	14.8	13.0	11.5	10.4	9.2	7.9	6.9	6.3	6.4
57.5°	22.1	14.5	10.4	10.1	9.6	8.7	8.0	7.4	6.8	6.3	6.3
55°	15.2	12.0	10.4	9.9	9.3	8.7	8.1	7.5	6.9	6.3	6.3
52.5°	11.9	10.9	10.5	10.0	9.4	8.8	8.2	7.6	7.0	6.4	6.3
50°	10.9	10.5	10.6	10.2	9.6	9.0	8.4	8.0	7.9	7.6	7.7
47.5°	11.2	11.5	11.3	10.5	10.1	10.2	10.2	10.2	10.3	9.9	9.7
45°	12.8	12.8	12.7	12.6	12.0	13.2	13.9	14.0	16.3	15.5	13.0
42.5°	15.9	16.6	17.5	18.6	17.2	22.0	29.6	34.7	29.6	23.4	19.7
40°	24.1	24.7	30.0	32.8	38.8	45.7	41.7	34.8	31.0	33.1	34.3
37.5°	38.0	44.3	53.1	62.8	60.4	50.1	51.3	51.1	49.3	53.6	53.8
35°	62.0	77.6	85.0	87.4	83.0	79.8	82.7	85.6	79.1	89.3	92.5
32.5°	101.3	120.4	124.8	120.3	120.7	127.7	133.0	142.5	152.0	167.2	185.3
30°	149.4	170.0	179.8	170.8	172.7	189.4	200.1	221.8	256.3	295.8	345.1
27.5°	221.4	236.7	254.2	256.7	248.4	272.7	310.9	333.7	426.6	488.2	599.1
25°	316.3	340.0	355.5	381.6	395.6	425.0	498.1	568.4	711.3	850.4	1086.5
22.5°	441.0	517.1	545.1	541.0	623.3	702.4	764.7	961.6	1243.0	1654.9	2118.6
20°	605.7	762.0	894.9	938.0	967.3	1176.0	1390.7	2001.9	2702.5	3871.7	4780.7
17.5°	1091.7	1143.1	1435.0	1672.5	1785.6	2227.7	3230.0	4768.4	7412.4	11030.4	13254.8
15°	1822.6	1969.5	2262.1	2764.6	3386.5	4558.5	6231.7	11136.1	17917.5	25328.2	32383.6
12.5°	2629.7	2936.0	3472.2	4212.2	5199.6	8543.6	13943.2	23170.6	35725.1	48564.4	64939.6
10°	3378.7	3994.7	4874.7	6123.9	8659.1	14371.9	23460.7	39145.7	61383.7	84571.7	107737.3
7.5°	3989.7	4871.1	6157.9	8029.1	12572.8	21744.6	36650.2	59760.1	88272.7	118105.3	149514.3
5°	4606.7	5722.5	7272.4	9536.4	15137.5	27440.6	47266.8	78904.9	115700.8	153290.6	192873.0
2.5°	5141.6	6446.9	8241.2	10886.4	16862.1	30523.5	53671.3	92629.4	135831.4	180813.9	231228.3
0°	5537.0	6865.9	8772.8	11524.6	18561.6	32923.5	57420.5	96686.3	140627.4	187066.8	238592.6
-2.5°	5481.9	6683.8	8412.2	11143.1	17971.1	32490.5	55078.7	93346.1	136351.8	179884.4	225838.5
-5°	5231.5	6276.7	7825.4	10269.8	15931.8	28189.6	49426.9	84694.4	124684.0	164465.7	205353.6
-7.5°	4849.8	5754.0	7111.5	9211.4	13580.4	23232.5	40881.8	68469.9	102850.2	136850.1	168391.3
-10°	4455.4	5192.0	6292.3	7951.5	11068.1	17812.4	30293.3	50917.4	79508.9	107508.8	131679.7
-12.5°	4084.8	4633.3	5415.7	6571.0	8492.0	13334.7	22758.5	37805.7	56903.9	78431.5	99361.1
-15°	3739.0	4144.7	4706.6	5638.3	7175.7	10048.1	15164.2	25191.8	38625.3	53652.0	68119.9
-17.5°	3422.1	3756.5	4195.0	4851.0	5803.6	7579.9	11163.8	16896.9	25007.5	35696.0	45687.2
-20°	3138.1	3441.0	3769.0	4260.5	4991.9	6037.5	7801.9	11361.0	16041.3	22778.2	29385.6



REPORT NUMBER: P701469 (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°
-22.5°	2915.7	3153.6	3408.5	3784.4	4394.3	5135.6	6012.7	7470.8	10046.9	13502.5	17416.0
-25°	2712.4	2888.6	3153.1	3557.7	3975.4	4469.9	5001.8	5586.5	6729.6	7841.0	9889.9
-27.5°	2519.2	2705.0	2980.5	3345.7	3726.7	3957.7	4297.9	4659.1	5205.8	5688.4	6504.6
-30°	2358.0	2553.2	2787.1	3095.2	3416.0	3633.6	3810.6	4071.9	4375.1	4677.8	5028.9
-32.5°	2055.1	2427.4	2589.5	2824.5	3113.3	3342.2	3498.9	3693.0	3855.0	4043.2	4233.9
-35°	1723.7	2134.3	2469.7	2621.7	2821.5	3075.9	3298.7	3454.6	3580.1	3696.1	3805.5
-37.5°	1348.7	1775.7	2141.9	2450.2	2633.0	2803.6	3039.7	3249.5	3400.5	3480.4	3551.5
-40°	1206.1	1329.4	1716.2	2069.8	2345.0	2612.0	2796.0	3001.7	3176.2	3286.5	3369.0
-42.5°	1181.6	1245.0	1295.0	1562.9	1896.9	2182.9	2426.5	2666.5	2879.7	3037.8	3165.5
-45°	1115.7	1191.0	1261.3	1310.8	1362.2	1615.2	1887.1	2152.0	2392.7	2608.0	2796.2
-47.5°	1009.1	1099.1	1174.2	1246.0	1301.9	1346.0	1397.0	1481.4	1706.8	1928.0	2138.1
-50°	893.4	974.8	1056.3	1133.6	1194.3	1247.5	1296.6	1338.5	1380.8	1425.1	1467.2
-52.5°	778.9	851.7	924.1	992.0	1056.6	1117.5	1174.1	1215.7	1251.3	1282.7	1306.3
-55°	688.8	742.9	795.7	853.3	910.7	964.4	1013.6	1058.6	1099.6	1136.1	1164.3
-57.5°	589.3	642.4	692.9	736.0	777.9	818.4	860.2	900.1	935.4	965.9	990.7
-60°	485.4	530.8	575.7	618.1	658.5	696.5	730.7	762.3	790.7	815.1	833.4
-62.5°	385.1	420.9	461.4	498.2	530.7	561.7	597.0	628.7	656.9	680.4	697.7
-65°	309.2	334.9	364.0	392.6	420.6	450.8	481.6	508.8	532.8	552.4	567.9
-67.5°	225.3	250.6	278.8	304.5	328.2	353.7	383.1	410.1	434.8	454.7	470.8
-70°	151.9	169.9	192.1	216.0	239.2	263.6	290.4	316.2	340.9	359.8	375.2
-72.5°	91.2	102.9	114.9	130.5	146.9	166.9	189.4	212.0	234.4	250.6	263.3
-75°	44.6	49.4	59.2	68.3	76.5	87.2	98.6	109.3	119.4	126.7	132.7
-77.5°	36.1	38.4	40.7	42.8	44.9	49.6	55.2	61.0	67.0	71.7	76.2
-80°	27.7	29.2	30.7	32.3	34.0	37.6	41.5	45.4	49.3	52.3	55.1
-82.5°	19.3	20.1	20.8	21.5	22.1	24.7	27.4	29.9	32.4	34.8	37.1
-85°	13.1	13.3	13.5	13.6	13.8	16.4	19.1	21.8	24.5	26.8	29.0
-87.5°	10.4	10.5	10.5	10.6	10.6	12.8	15.0	17.1	19.2	21.3	23.3
-90°	6.3	5.8	5.3	4.7	4.2	3.7	3.2	2.6	2.1	1.6	1.1



REPORT NUMBER: P701469 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-3S-CV5-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	54.8	62.6	57.4	52.2	57.4	62.6	54.8	46.9	39.1	31.3	26.6
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.6
85°	2.6	2.1	2.1	2.1	2.1	2.1	2.6	3.1	3.6	4.1	4.1
82.5°	2.6	2.1	2.1	2.1	2.1	2.1	2.6	3.2	3.7	4.2	4.2
80°	4.1	4.2	4.2	4.2	4.2	4.2	4.1	4.1	4.2	4.2	4.7
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.3	4.8
75°	4.7	4.2	5.2	6.3	5.2	4.2	4.7	5.2	5.6	6.0	6.3
72.5°	10.6	10.3	10.4	10.4	10.4	10.3	10.6	10.9	11.0	11.2	11.6
70°	12.4	12.4	12.5	12.5	12.5	12.4	12.4	12.4	12.4	13.2	14.9
67.5°	11.2	10.6	10.4	10.4	10.4	10.6	11.2	11.7	12.3	13.3	15.3
65°	8.6	8.4	8.3	8.3	8.3	8.4	8.6	8.8	9.3	10.8	13.0
62.5°	7.7	8.2	8.3	8.3	8.3	8.2	7.7	7.3	7.0	8.0	9.8
60°	6.4	6.4	6.3	6.3	6.3	6.4	6.4	6.4	6.3	6.9	7.9
57.5°	6.3	6.3	7.1	8.3	7.1	6.3	6.3	6.3	6.3	6.8	7.4
55°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.9	7.5
52.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.4	7.0	7.6
50°	8.0	8.2	8.3	8.3	8.3	8.2	8.0	7.7	7.6	7.9	8.0
47.5°	10.0	10.2	9.7	8.3	9.7	10.2	10.0	9.7	9.9	10.3	10.2
45°	13.0	12.7	12.4	12.5	12.4	12.7	13.0	13.0	15.5	16.3	14.0
42.5°	20.3	20.6	20.7	20.9	20.7	20.6	20.3	19.7	23.4	29.6	34.7
40°	36.1	36.9	37.2	37.6	37.2	36.9	36.1	34.3	33.1	31.0	34.8
37.5°	54.6	55.5	55.8	56.3	55.8	55.5	54.6	53.8	53.6	49.3	51.1
35°	92.1	91.8	88.7	89.7	88.7	91.8	92.1	92.5	89.3	79.1	85.6
32.5°	197.8	199.3	189.0	173.2	189.0	199.3	197.8	185.3	167.2	152.0	142.5
30°	382.2	414.9	437.0	438.1	437.0	414.9	382.2	345.1	295.8	256.3	221.8
27.5°	673.2	724.1	745.8	757.3	745.8	724.1	673.2	599.1	488.2	426.6	333.7
25°	1272.0	1388.7	1451.7	1404.1	1451.7	1388.7	1272.0	1086.5	850.4	711.3	568.4
22.5°	2559.5	2782.6	2972.8	2983.4	2972.8	2782.6	2559.5	2118.6	1654.9	1243.0	961.6
20°	6044.6	5993.9	6474.7	6233.8	6474.7	5993.9	6044.6	4780.7	3871.7	2702.5	2001.9
17.5°	17145.0	19041.5	20089.6	18655.5	20089.6	19041.5	17145.0	13254.8	11030.4	7412.4	4768.4
15°	39415.7	44146.8	47347.9	46939.1	47347.9	44146.8	39415.7	32383.6	25328.2	17917.5	11136.1
12.5°	74111.7	81886.1	88512.8	88234.8	88512.8	81886.1	74111.7	64939.6	48564.4	35725.1	23170.6
10°	128376.0	141930.2	154562.1	155878.0	154562.1	141930.2	128376.0	107737.3	84571.7	61383.7	39145.7
7.5°	178370.4	208892.9	227086.9	231754.8	227086.9	208892.9	178370.4	149514.3	118105.3	88272.7	59760.1
5°	240972.0	276318.4	295440.2	295950.5	295440.2	276318.4	240972.0	192873.0	153290.6	115700.8	78904.9
2.5°	287314.7	327129.9	350608.8	368775.0	350608.8	327129.9	287314.7	231228.3	180813.9	135831.4	92629.4
0°	301097.3	335433.2	373745.6	395046.4	373745.6	335433.2	301097.3	238592.6	187066.8	140627.4	96686.3
-2.5°	282629.3	318578.4	337597.1	354923.2	337597.1	318578.4	282629.3	225838.5	179884.4	136351.8	93346.1
-5°	247544.7	285620.7	303893.7	307794.3	303893.7	285620.7	247544.7	205353.6	164465.7	124684.0	84694.4
-7.5°	196971.8	223771.0	242270.5	249525.6	242270.5	223771.0	196971.8	168391.3	136850.1	102850.2	68469.9
-10°	154157.3	171462.5	180720.1	186875.9	180720.1	171462.5	154157.3	131679.7	107508.8	79508.9	50917.4
-12.5°	116230.2	128739.9	136000.3	139160.7	136000.3	128739.9	116230.2	99361.1	78431.5	56903.9	37805.7
-15°	82731.9	92630.7	97547.0	100677.3	97547.0	92630.7	82731.9	68119.9	53652.0	38625.3	25191.8
-17.5°	56682.3	64641.6	69178.3	72128.8	69178.3	64641.6	56682.3	45687.2	35696.0	25007.5	16896.9
-20°	36266.8	41006.1	44496.8	45514.2	44496.8	41006.1	36266.8	29385.6	22778.2	16041.3	11361.0



REPORT NUMBER: P701469 (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°	21189.5	23980.0	25738.0	26136.8	25738.0	23980.0	21189.5	17416.0	13502.5	10046.9	7470.8
-25°	11521.2	12737.0	13659.3	13971.8	13659.3	12737.0	11521.2	9889.9	7841.0	6729.6	5586.5
-27.5°	7075.2	7545.3	7886.0	8061.4	7886.0	7545.3	7075.2	6504.6	5688.4	5205.8	4659.1
-30°	5321.6	5536.0	5664.0	5749.8	5664.0	5536.0	5321.6	5028.9	4677.8	4375.1	4071.9
-32.5°	4369.2	4465.2	4523.0	4562.7	4523.0	4465.2	4369.2	4233.9	4043.2	3855.0	3693.0
-35°	3891.9	3954.2	3997.0	4018.2	3997.0	3954.2	3891.9	3805.5	3696.1	3580.1	3454.6
-37.5°	3604.3	3643.6	3672.1	3688.5	3672.1	3643.6	3604.3	3551.5	3480.4	3400.5	3249.5
-40°	3408.3	3435.9	3458.7	3484.1	3458.7	3435.9	3408.3	3369.0	3286.5	3176.2	3001.7
-42.5°	3229.5	3270.3	3290.9	3296.3	3290.9	3270.3	3229.5	3165.5	3037.8	2879.7	2666.5
-45°	2940.4	3053.9	3123.7	3146.1	3123.7	3053.9	2940.4	2796.2	2608.0	2392.7	2152.0
-47.5°	2331.3	2501.3	2629.6	2708.0	2629.6	2501.3	2331.3	2138.1	1928.0	1706.8	1481.4
-50°	1506.4	1542.3	1556.5	1548.0	1556.5	1542.3	1506.4	1467.2	1425.1	1380.8	1338.5
-52.5°	1325.0	1339.4	1351.5	1360.3	1351.5	1339.4	1325.0	1306.3	1282.7	1251.3	1215.7
-55°	1186.3	1202.5	1217.9	1230.9	1217.9	1202.5	1186.3	1164.3	1136.1	1099.6	1058.6
-57.5°	1011.5	1028.0	1034.1	1032.7	1034.1	1028.0	1011.5	990.7	965.9	935.4	900.1
-60°	848.4	860.1	868.8	874.1	868.8	860.1	848.4	833.4	815.1	790.7	762.3
-62.5°	711.4	721.6	733.0	742.7	733.0	721.6	711.4	697.7	680.4	656.9	628.7
-65°	581.0	591.8	600.4	607.1	600.4	591.8	581.0	567.9	552.4	532.8	508.8
-67.5°	485.3	498.1	507.7	515.3	507.7	498.1	485.3	470.8	454.7	434.8	410.1
-70°	389.3	402.0	409.8	415.2	409.8	402.0	389.3	375.2	359.8	340.9	316.2
-72.5°	274.3	283.5	287.9	290.0	287.9	283.5	274.3	263.3	250.6	234.4	212.0
-75°	138.0	142.4	146.6	150.2	146.6	142.4	138.0	132.7	126.7	119.4	109.3
-77.5°	80.6	84.8	87.4	89.7	87.4	84.8	80.6	76.2	71.7	67.0	61.0
-80°	57.7	60.1	62.5	64.7	62.5	60.1	57.7	55.1	52.3	49.3	45.4
-82.5°	39.4	41.6	42.7	43.8	42.7	41.6	39.4	37.1	34.8	32.4	29.9
-85°	31.2	33.3	34.4	35.5	34.4	33.3	31.2	29.0	26.8	24.5	21.8
-87.5°	25.3	27.2	28.2	29.2	28.2	27.2	25.3	23.3	21.3	19.2	17.1
-90°	0.5	0.0	0.0	0.0	0.0	0.0	0.5	1.1	1.6	2.1	2.6



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	21.9	17.2	12.5	12.0	11.4	10.9	10.4	9.9	9.4	8.8	8.3
87.5°	3.2	3.7	4.2	4.7	5.3	5.8	6.3	6.3	6.3	6.3	6.3
85°	4.1	4.1	4.2	4.7	5.3	5.8	6.3	6.3	6.3	6.3	6.3
82.5°	4.2	4.2	4.2	4.8	5.3	5.8	6.3	6.5	6.6	6.6	6.6
80°	5.0	5.3	5.5	5.6	5.8	6.0	6.4	6.9	7.4	7.8	8.0
77.5°	5.3	5.9	6.4	6.6	6.7	6.6	6.6	6.9	7.4	7.9	8.3
75°	6.7	7.0	7.5	8.2	8.5	8.3	8.1	8.0	8.0	8.1	8.3
72.5°	11.7	11.6	12.2	13.5	14.0	14.7	14.6	13.5	11.9	9.8	8.3
70°	16.4	17.5	20.0	23.6	26.2	27.3	26.8	24.8	21.3	18.7	14.9
67.5°	17.4	19.6	23.5	28.0	31.5	34.9	38.1	40.7	39.6	35.7	25.8
65°	15.3	17.7	20.6	24.0	28.5	34.1	41.7	46.4	48.9	49.5	41.1
62.5°	11.9	14.2	15.8	18.2	21.5	27.1	36.3	44.5	51.9	54.0	46.0
60°	9.2	10.4	11.5	13.0	14.8	20.0	29.5	39.4	49.8	50.0	46.3
57.5°	8.0	8.7	9.6	10.1	10.4	14.5	22.1	32.0	42.8	42.7	41.4
55°	8.1	8.7	9.3	9.9	10.4	12.0	15.2	21.8	30.6	32.8	32.7
52.5°	8.2	8.8	9.4	10.0	10.5	10.9	11.9	15.7	19.0	22.5	24.1
50°	8.4	9.0	9.6	10.2	10.6	10.5	10.9	12.0	13.9	16.0	17.6
47.5°	10.2	10.2	10.1	10.5	11.3	11.5	11.2	10.9	12.2	12.7	14.2
45°	13.9	13.2	12.0	12.6	12.7	12.8	12.8	13.4	12.9	13.1	12.5
42.5°	29.6	22.0	17.2	18.6	17.5	16.6	15.9	17.2	16.5	15.0	16.1
40°	41.7	45.7	38.8	32.8	30.0	24.7	24.1	22.8	22.0	19.3	22.3
37.5°	51.3	50.1	60.4	62.8	53.1	44.3	38.0	33.1	29.4	30.1	31.9
35°	82.7	79.8	83.0	87.4	85.0	77.6	62.0	49.2	42.9	43.7	43.7
32.5°	133.0	127.7	120.7	120.3	124.8	120.4	101.3	76.0	65.6	61.5	58.0
30°	200.1	189.4	172.7	170.8	179.8	170.0	149.4	131.7	108.9	82.8	74.6
27.5°	310.9	272.7	248.4	256.7	254.2	236.7	221.4	203.3	164.7	124.1	100.4
25°	498.1	425.0	395.6	381.6	355.5	340.0	316.3	284.8	238.9	187.7	164.4
22.5°	764.7	702.4	623.3	541.0	545.1	517.1	441.0	375.1	358.5	358.8	283.6
20°	1390.7	1176.0	967.3	938.0	894.9	762.0	605.7	595.4	653.4	600.2	443.4
17.5°	3230.0	2227.7	1785.6	1672.5	1435.0	1143.1	1091.7	1037.4	1004.5	899.5	634.5
15°	6231.7	4558.5	3386.5	2764.6	2262.1	1969.5	1822.6	1542.5	1410.1	1232.2	919.2
12.5°	13943.2	8543.6	5199.6	4212.2	3472.2	2936.0	2629.7	2207.5	1871.2	1656.5	1344.7
10°	23460.7	14371.9	8659.1	6123.9	4874.7	3994.7	3378.7	2817.4	2357.1	2108.7	1783.0
7.5°	36650.2	21744.6	12572.8	8029.1	6157.9	4871.1	3989.7	3346.3	2826.2	2549.4	2224.6
5°	47266.8	27440.6	15137.5	9536.4	7272.4	5722.5	4606.7	3823.9	3278.0	2977.6	2658.0
2.5°	53671.3	30523.5	16862.1	10886.4	8241.2	6446.9	5141.6	4184.7	3599.7	3226.9	2878.6
0°	57420.5	32923.5	18561.6	11524.6	8772.8	6865.9	5537.0	4447.9	3853.3	3429.8	3068.9
-2.5°	55078.7	32490.5	17971.1	11143.1	8412.2	6683.8	5481.9	4529.2	3947.4	3499.7	3077.3
-5°	49426.9	28189.6	15931.8	10269.8	7825.4	6276.7	5231.5	4448.5	3924.5	3511.3	3046.2
-7.5°	40881.8	23232.5	13580.4	9211.4	7111.5	5754.0	4849.8	4180.5	3687.7	3327.7	2857.4
-10°	30293.3	17812.4	11068.1	7951.5	6292.3	5192.0	4455.4	3875.8	3446.5	3136.5	2639.6
-12.5°	22758.5	13334.7	8492.0	6571.0	5415.7	4633.3	4084.8	3554.8	3207.5	2942.8	2398.3
-15°	15164.2	10048.1	7175.7	5638.3	4706.6	4144.7	3739.0	3285.9	3027.8	2758.2	2138.0
-17.5°	11163.8	7579.9	5803.6	4851.0	4195.0	3756.5	3422.1	3093.9	2844.5	2524.7	1861.4
-20°	7801.9	6037.5	4991.9	4260.5	3769.0	3441.0	3138.1	2891.9	2641.5	2196.7	1581.2



REPORT NUMBER: P701469 (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°	6012.7	5135.6	4394.3	3784.4	3408.5	3153.6	2915.7	2691.3	2420.7	1850.5	1307.0
-25°	5001.8	4469.9	3975.4	3557.7	3153.1	2888.6	2712.4	2500.2	2087.9	1523.5	1074.3
-27.5°	4297.9	3957.7	3726.7	3345.7	2980.5	2705.0	2519.2	2284.8	1760.8	1274.9	1028.6
-30°	3810.6	3633.6	3416.0	3095.2	2787.1	2553.2	2358.0	1933.6	1471.2	1082.2	1004.2
-32.5°	3498.9	3342.2	3113.3	2824.5	2589.5	2427.4	2055.1	1600.2	1181.2	1054.7	970.1
-35°	3298.7	3075.9	2821.5	2621.7	2469.7	2134.3	1723.7	1289.8	1098.7	1020.1	930.3
-37.5°	3039.7	2803.6	2633.0	2450.2	2141.9	1775.7	1348.7	1154.2	1067.8	974.5	878.0
-40°	2796.0	2612.0	2345.0	2069.8	1716.2	1329.4	1206.1	1130.9	1026.9	919.3	817.6
-42.5°	2426.5	2182.9	1896.9	1562.9	1295.0	1245.0	1181.6	1079.2	970.7	856.9	754.6
-45°	1887.1	1615.2	1362.2	1310.8	1261.3	1191.0	1115.7	1005.9	892.4	787.4	688.6
-47.5°	1397.0	1346.0	1301.9	1246.0	1174.2	1099.1	1009.1	910.2	808.3	712.6	634.6
-50°	1296.6	1247.5	1194.3	1133.6	1056.3	974.8	893.4	811.3	724.6	649.5	575.1
-52.5°	1174.1	1117.5	1056.6	992.0	924.1	851.7	778.9	718.9	651.8	579.8	508.7
-55°	1013.6	964.4	910.7	853.3	795.7	742.9	688.8	631.8	570.5	503.6	440.0
-57.5°	860.2	818.4	777.9	736.0	692.9	642.4	589.3	536.3	483.7	424.7	369.8
-60°	730.7	696.5	658.5	618.1	575.7	530.8	485.4	439.1	392.0	353.3	313.2
-62.5°	597.0	561.7	530.7	498.2	461.4	420.9	385.1	354.9	324.0	290.4	251.4
-65°	481.6	450.8	420.6	392.6	364.0	334.9	309.2	281.0	251.2	220.3	186.0
-67.5°	383.1	353.7	328.2	304.5	278.8	250.6	225.3	200.2	178.1	156.0	128.8
-70°	290.4	263.6	239.2	216.0	192.1	169.9	151.9	134.4	115.5	98.4	80.3
-72.5°	189.4	166.9	146.9	130.5	114.9	102.9	91.2	78.8	65.7	52.0	41.9
-75°	98.6	87.2	76.5	68.3	59.2	49.4	44.6	42.3	39.7	36.8	33.6
-77.5°	55.2	49.6	44.9	42.8	40.7	38.4	36.1	33.7	31.4	29.2	27.1
-80°	41.5	37.6	34.0	32.3	30.7	29.2	27.7	26.0	24.4	22.9	21.7
-82.5°	27.4	24.7	22.1	21.5	20.8	20.1	19.3	18.7	18.1	17.7	17.4
-85°	19.1	16.4	13.8	13.6	13.5	13.3	13.1	13.2	13.2	13.1	13.0
-87.5°	15.0	12.8	10.6	10.6	10.5	10.5	10.4	10.3	10.2	10.0	9.8
-90°	3.2	3.7	4.2	4.7	5.3	5.8	6.3	6.3	6.3	6.3	6.3



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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°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
87.5°	6.6	6.9	7.2	7.4	7.6	7.8	8.0	8.3	8.3	8.3	8.3
85°	6.8	7.3	7.8	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
82.5°	6.9	7.3	7.8	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
80°	7.9	7.9	8.1	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
77.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
75°	8.3	8.3	8.3	8.4	8.4	8.3	8.3	8.3	8.3	8.3	8.3
72.5°	8.3	8.3	8.3	8.6	8.9	8.9	8.6	8.3	8.3	8.3	8.3
70°	11.4	8.9	8.3	8.5	9.0	9.6	9.5	9.0	8.3	8.3	8.3
67.5°	16.9	12.9	10.0	8.5	8.5	9.2	10.1	9.8	9.1	8.3	8.3
65°	29.5	19.7	12.3	10.2	8.8	8.5	9.3	10.2	9.8	9.0	8.3
62.5°	37.9	29.0	19.8	13.1	9.7	8.6	8.5	9.6	10.3	9.6	8.7
60°	41.8	33.4	26.7	19.6	12.8	8.8	8.5	9.1	10.0	10.3	9.3
57.5°	38.2	35.6	30.4	24.8	18.1	11.2	8.6	9.0	9.7	10.3	9.8
55°	32.3	31.3	32.0	27.8	22.1	15.5	10.0	9.2	9.6	10.2	10.3
52.5°	24.0	27.4	30.5	29.5	24.5	19.1	13.3	9.3	9.7	10.2	10.4
50°	17.7	22.8	28.5	29.8	26.5	21.2	16.0	11.3	9.9	10.3	10.5
47.5°	16.3	20.7	25.4	30.1	28.3	23.2	18.0	13.0	10.0	10.4	10.7
45°	16.8	20.4	23.9	28.1	30.1	24.7	19.7	14.3	11.0	10.6	10.9
42.5°	18.6	21.8	24.4	26.8	28.8	25.8	21.3	15.7	11.7	10.9	11.1
40°	24.1	24.6	25.9	28.3	27.9	26.5	22.0	17.1	12.2	11.4	11.4
37.5°	31.4	30.2	29.4	32.5	29.0	26.4	22.3	18.3	13.5	12.2	11.7
35°	41.9	38.3	36.6	39.1	35.0	27.1	22.3	19.0	15.7	13.2	12.1
32.5°	54.1	51.6	49.4	46.7	43.3	28.6	22.8	20.9	17.9	14.1	12.5
30°	72.6	75.5	65.3	55.4	52.7	36.3	25.8	23.1	20.3	15.1	13.1
27.5°	113.5	106.8	85.3	69.4	60.9	46.8	32.1	25.8	22.6	16.5	13.9
25°	166.4	148.4	116.2	86.5	69.8	75.8	39.6	29.1	24.9	18.4	14.7
22.5°	230.2	199.4	152.0	105.2	110.1	113.7	55.6	35.0	27.4	20.3	15.5
20°	302.0	258.0	205.1	174.9	160.9	149.8	83.5	41.6	30.0	22.2	16.4
17.5°	392.4	367.3	333.1	266.0	218.9	189.7	116.1	48.7	32.8	24.1	17.2
15°	642.5	535.6	475.0	367.9	280.8	232.6	152.4	56.1	35.7	25.9	18.1
12.5°	944.3	707.3	627.1	478.1	345.6	277.8	191.2	63.6	38.7	27.9	19.2
10°	1267.3	881.0	786.2	593.7	412.3	324.4	231.0	72.9	43.6	30.1	20.4
7.5°	1601.0	1055.4	948.8	711.7	478.6	370.9	275.0	85.9	49.0	32.2	21.6
5°	1901.9	1202.6	1079.0	812.1	538.0	415.5	317.8	98.9	54.4	34.2	22.8
2.5°	2046.8	1305.5	1182.4	904.5	595.0	458.2	357.3	111.4	59.7	36.0	24.0
0°	2161.4	1404.1	1276.8	988.9	648.8	498.6	392.2	123.1	64.7	37.6	25.0
-2.5°	2172.5	1401.6	1264.2	987.6	668.0	514.6	399.6	141.0	79.5	47.7	29.8
-5°	2150.1	1393.5	1243.2	977.8	682.7	527.5	401.5	157.5	93.7	57.4	34.4
-7.5°	2023.3	1347.2	1202.3	958.4	692.8	536.7	398.8	172.6	106.8	66.4	38.6
-10°	1849.8	1276.9	1137.1	914.8	681.5	535.4	391.6	186.1	118.9	74.4	42.3
-12.5°	1647.7	1205.2	1071.1	868.1	663.5	525.4	379.1	198.4	129.6	81.4	45.4
-15°	1418.2	1133.0	1006.7	819.8	642.3	513.5	365.0	209.0	139.5	87.8	47.8
-17.5°	1170.5	1061.4	945.7	771.4	618.2	500.1	350.4	217.6	147.9	93.7	50.5
-20°	1095.5	1005.9	888.3	724.5	591.3	485.4	336.1	223.9	154.8	98.2	53.0



REPORT NUMBER: P701469 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-3S-CV5-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1052.5	961.8	837.8	688.0	565.9	469.7	322.7	227.8	160.2	101.1	54.4
-25°	1010.7	917.2	789.4	656.2	545.2	447.2	317.8	229.4	163.9	102.2	54.5
-27.5°	963.0	869.7	741.1	621.9	525.3	428.3	318.0	232.5	165.5	101.5	53.3
-30°	913.6	815.0	698.8	588.6	503.5	405.6	315.2	233.7	164.3	99.8	50.7
-32.5°	873.2	762.3	656.2	562.4	477.1	381.7	303.2	232.6	160.6	96.6	48.8
-35°	824.4	715.3	613.0	534.5	448.4	362.0	287.1	229.2	154.3	91.4	46.3
-37.5°	771.8	668.5	580.8	503.6	418.8	339.5	272.5	213.8	145.3	84.1	42.6
-40°	717.3	623.9	547.3	470.4	390.5	314.5	255.7	194.9	134.9	74.7	37.7
-42.5°	660.3	583.7	508.7	435.6	360.5	293.8	236.5	174.1	118.5	66.5	31.6
-45°	612.5	538.7	465.8	396.6	328.9	270.9	211.2	151.6	100.1	58.0	27.0
-47.5°	559.9	488.1	420.1	355.0	300.8	244.4	183.7	129.5	80.6	47.8	25.6
-50°	501.0	434.9	372.2	317.7	268.7	211.5	155.0	105.9	66.5	35.4	24.1
-52.5°	441.5	380.3	327.8	280.8	229.8	176.2	126.9	81.9	51.8	29.8	22.2
-55°	379.7	330.3	285.8	238.1	188.4	142.1	97.3	64.6	36.4	27.0	20.3
-57.5°	326.1	283.0	237.8	191.7	148.3	107.2	73.4	46.7	30.4	24.2	19.1
-60°	272.5	229.1	186.4	147.0	108.8	77.3	52.8	33.0	27.1	21.5	17.6
-62.5°	212.1	173.7	137.7	102.7	76.0	53.8	34.6	29.2	23.8	19.8	16.1
-65°	154.7	122.1	89.7	69.9	49.8	34.8	30.3	25.4	21.5	18.0	14.7
-67.5°	100.2	79.1	59.0	41.0	34.0	30.0	25.9	22.6	19.4	16.2	13.6
-70°	61.9	44.2	36.0	32.3	28.7	25.4	23.0	20.3	17.3	14.9	12.5
-72.5°	37.8	33.8	30.0	26.7	24.6	22.5	20.3	18.0	15.9	13.7	11.4
-75°	30.2	27.6	25.3	23.3	21.4	19.5	18.0	16.4	14.4	12.4	11.0
-77.5°	25.1	23.2	21.5	19.9	18.4	17.1	16.0	14.8	13.1	11.7	10.8
-80°	20.4	19.1	17.7	16.4	15.4	14.6	13.9	13.2	12.0	11.1	10.6
-82.5°	16.3	15.2	14.2	13.4	13.0	12.5	12.0	11.5	10.8	10.4	10.2
-85°	12.4	11.9	11.4	11.0	10.7	10.4	10.2	10.1	9.9	9.7	9.6
-87.5°	9.7	9.6	9.6	9.5	9.4	9.3	9.3	9.2	9.1	9.0	8.9
-90°	6.3	6.3	6.3	6.3	6.8	7.3	7.8	8.3	8.3	8.3	8.3



REPORT NUMBER: P701469 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	8.3	8.3	8.3	8.3	8.3	8.3	8.3
87.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3
85°	8.3	8.3	8.3	8.3	8.3	8.3	8.3
82.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3
80°	8.3	8.3	8.3	8.3	8.3	8.3	8.3
77.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3
75°	8.3	8.3	8.3	8.3	8.3	8.3	8.3
72.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3
70°	8.3	8.3	8.3	8.3	8.3	8.3	8.3
67.5°	8.4	8.3	8.3	8.3	8.3	8.3	8.3
65°	8.4	8.4	8.3	8.3	8.3	8.3	8.3
62.5°	8.6	8.5	8.3	8.3	8.3	8.3	8.3
60°	8.7	8.7	8.3	8.3	8.3	8.3	8.3
57.5°	9.1	8.9	8.5	8.3	8.3	8.3	8.3
55°	9.5	9.1	8.7	8.3	8.4	8.3	8.3
52.5°	9.9	9.4	8.9	8.3	8.4	8.3	8.3
50°	10.2	9.6	9.2	8.3	8.4	8.3	8.3
47.5°	10.4	9.8	9.4	8.3	8.5	8.3	8.3
45°	10.6	10.0	9.7	8.5	8.6	8.3	8.3
42.5°	10.8	10.2	9.9	8.7	8.6	8.3	8.3
40°	11.0	10.3	10.1	9.0	8.7	8.3	8.3
37.5°	11.3	10.4	10.2	9.2	8.8	8.3	8.3
35°	11.6	10.5	10.3	9.4	8.9	8.3	8.3
32.5°	11.9	10.8	10.3	9.6	9.0	8.3	8.3
30°	12.2	11.0	10.4	9.8	9.1	8.3	8.3
27.5°	12.6	11.2	10.4	9.9	9.2	8.3	8.3
25°	13.0	11.5	10.4	10.0	9.3	8.3	8.3
22.5°	13.3	11.7	10.4	10.1	9.4	8.3	8.3
20°	13.7	11.9	10.4	10.2	9.5	8.3	8.3
17.5°	14.0	12.0	10.4	10.3	9.6	8.3	8.3
15°	14.2	12.1	10.4	10.3	9.7	8.3	8.3
12.5°	14.3	12.2	10.4	10.4	9.9	8.3	8.3
10°	14.4	12.3	10.4	10.4	10.0	8.3	8.3
7.5°	14.5	12.4	10.4	10.4	10.1	8.3	8.3
5°	14.6	12.5	10.4	10.4	10.2	8.3	8.3
2.5°	14.6	12.5	10.4	10.4	10.3	8.3	8.3
0°	14.6	12.5	10.4	10.4	10.3	8.3	8.3
-2.5°	16.5	13.0	10.6	10.4	10.4	8.3	8.3
-5°	18.4	13.4	10.8	10.4	10.4	8.3	8.3
-7.5°	20.1	13.8	10.9	10.4	10.4	8.3	8.3
-10°	21.7	14.1	11.1	10.4	10.3	8.3	8.3
-12.5°	23.0	14.4	11.2	10.4	10.3	8.3	8.3
-15°	24.0	14.7	11.3	10.4	10.3	8.3	8.3
-17.5°	24.7	14.8	11.4	10.4	10.2	8.3	8.3
-20°	25.5	14.9	11.5	10.4	10.1	8.3	8.3



REPORT NUMBER: P701469 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-3S-CV5-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	26.2	15.0	11.5	10.4	10.1	8.3	8.3
-25°	26.4	15.1	11.5	10.4	10.0	8.3	8.3
-27.5°	25.8	15.2	11.5	10.4	9.9	8.3	8.3
-30°	24.5	15.2	11.4	10.4	9.8	8.3	8.3
-32.5°	22.4	15.1	11.4	10.4	9.7	8.3	8.3
-35°	21.5	14.9	11.4	10.4	9.6	8.3	8.3
-37.5°	21.1	14.6	11.3	10.4	9.5	8.3	8.3
-40°	20.6	14.5	11.2	10.4	9.4	8.3	8.3
-42.5°	19.9	14.3	11.1	10.4	9.3	8.3	8.3
-45°	19.0	14.0	11.1	10.4	9.2	8.3	8.3
-47.5°	17.9	13.6	11.1	10.4	9.0	8.3	8.3
-50°	17.2	13.2	11.0	10.3	8.9	8.3	8.3
-52.5°	16.5	12.6	10.9	10.1	8.8	8.3	8.3
-55°	15.7	12.3	10.8	9.9	8.6	8.3	8.3
-57.5°	14.7	12.0	10.6	9.7	8.5	8.3	8.3
-60°	13.7	11.6	10.4	9.5	8.3	8.3	8.3
-62.5°	13.0	11.2	10.2	9.3	8.3	8.3	8.3
-65°	12.3	10.7	10.0	9.1	8.3	8.3	8.3
-67.5°	11.4	10.3	9.8	9.0	8.3	8.3	8.3
-70°	10.5	10.2	9.7	8.8	8.3	8.3	8.3
-72.5°	10.4	10.1	9.5	8.7	8.3	8.3	8.3
-75°	10.4	10.0	9.3	8.7	8.3	8.3	8.3
-77.5°	10.3	9.9	9.2	8.6	8.3	8.3	8.3
-80°	10.4	9.6	9.0	8.6	8.3	8.3	8.3
-82.5°	9.9	9.3	8.8	8.5	8.3	8.3	8.3
-85°	9.4	9.0	8.7	8.4	8.3	8.3	8.3
-87.5°	8.8	8.6	8.5	8.4	8.3	8.3	8.3
-90°	8.3	8.3	8.3	8.3	8.3	8.3	8.3

(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

