

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: P701473 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-40-70-4S-CV5-S**

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701473 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-23)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0640L-40-70-4S-CV5-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 4S BEAM SHAPE WITH 5 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

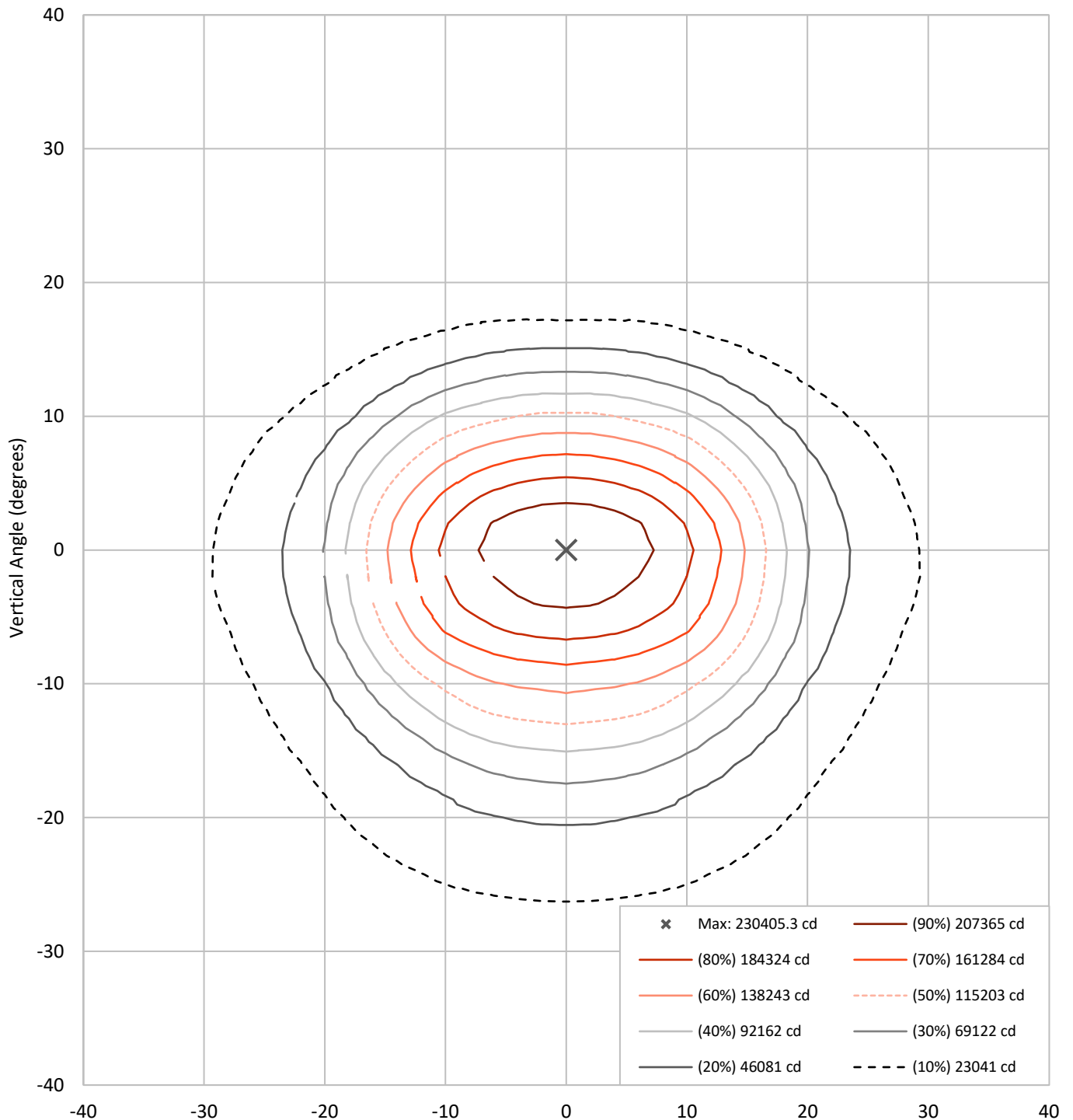
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 3V
Luminaire Lumens:	60822.9 lumens	Max Intensity:	230405.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	92.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	33.1°H x 23.4°V	Field Angle (10%):	58.5°H x 43.2°V
Beam Lumens:	30774.4 lumens	Field Lumens:	52454.5 lumens
Beam Efficiency:	50.6%	Field Efficiency:	86.2%

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





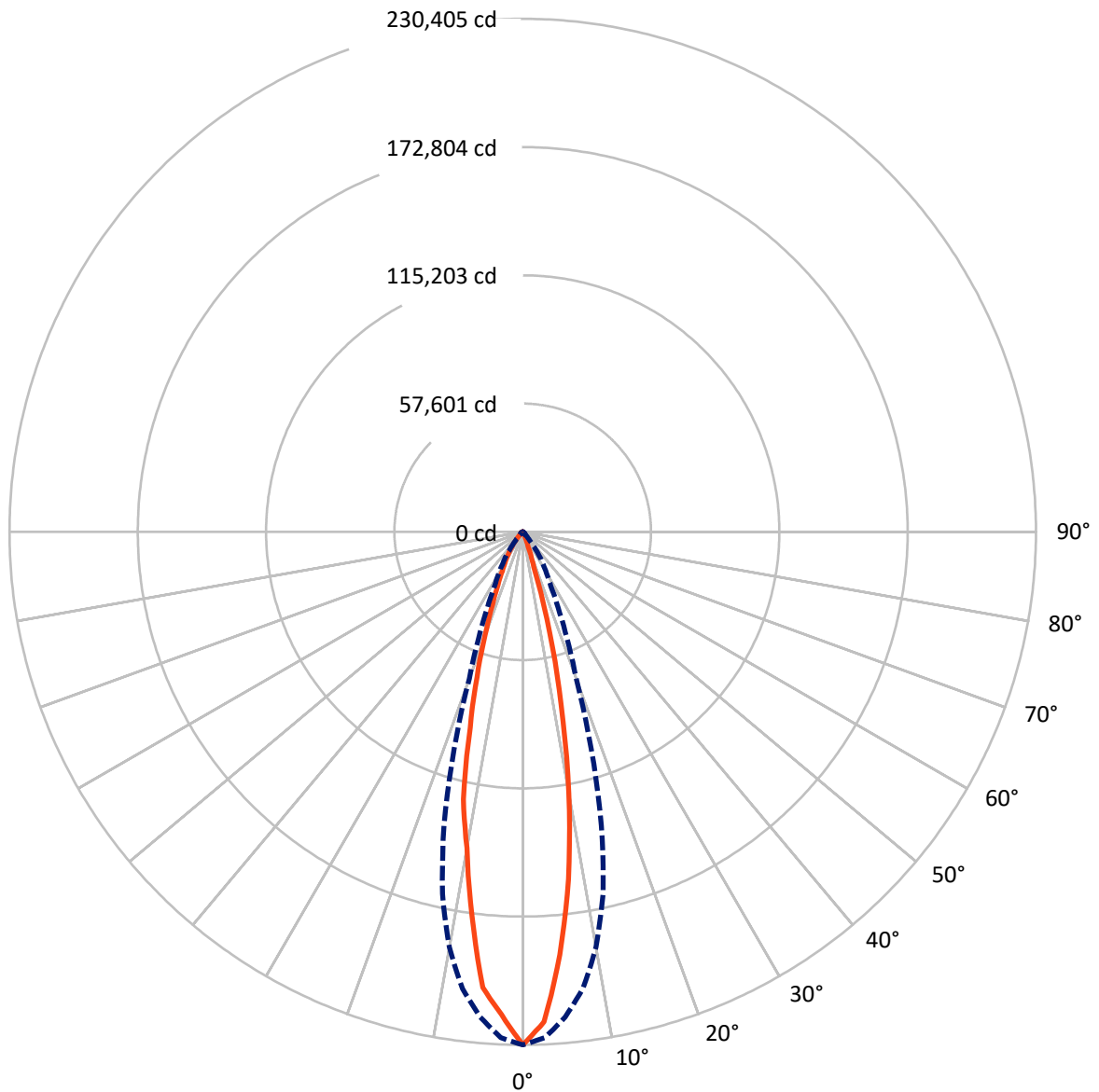
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Lumen Table

90	0.2		0.6		0.8		0.8		0.6		0.8		0.8		0.6		0.2	
80	0.2		0.6		0.8		0.8		0.6		0.8		0.8		0.6		0.2	
70	0.2	0.1	0.2	0.5	0.7	0.5	0.3	0.3	0.3	0.3	0.5	0.7	0.5	0.2	0.1	0.2		
60		0.1	0.3	0.9	0.8	0.3	0.2	0.2	0.2	0.2	0.3	0.8	0.9	0.3	0.1			
50	0.2	0.2	0.4	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.4	0.2	0.2		
40		0.2	0.6	0.9	1.3	2.6	4.7	7.0	7.0	4.7	2.6	1.3	0.9	0.6	0.2			
30	0.3	0.4	1.6	3.4	9.2	25.4	52.6	87.3	87.3	52.6	25.4	9.2	3.4	1.6	0.4	0.3		
20		1.0	5.2	13.7	82.1	256.5	781.4	1460.6	1460.6	781.4	256.5	82.1	13.7	5.2	1.0			
10	0.4	1.9	10.5	34.6	254.8	897.6	3107.6	5288.3	5288.3	3107.6	897.6	254.8	34.6	10.5	1.9	0.4		
0		2.6	13.0	41.6	283.9	990.4	3422.9	5618.9	5618.9	3422.9	990.4	283.9	41.6	13.0	2.6			
-10	0.5	2.8	11.5	29.2	168.2	545.9	1514.8	2662.1	2662.1	1514.8	545.9	168.2	29.2	11.5	2.8	0.5		
-20		2.7	9.7	19.5	70.3	272.8	562.3	818.9	818.9	562.3	272.8	70.3	19.5	9.7	2.7			
-30	0.5	2.2	8.1	15.2	28.5	84.9	192.9	273.7	273.7	192.9	84.9	28.5	15.2	8.1	2.2	0.5		
-40		1.4	5.8	12.5	20.3	30.4	43.9	57.6	57.6	43.9	30.4	20.3	12.5	5.8	1.4			
-50	0.3	0.7	3.0	8.0	14.3	20.0	24.6	27.5	27.5	24.6	20.0	14.3	8.0	3.0	0.7	0.3		
-60		0.3	1.1	3.0	6.0	9.7	13.0	15.0	15.0	13.0	9.7	6.0	3.0	1.1	0.3			
-70	0.2	0.9	2.9	7.5	10.7	7.5	2.9	0.9	0.2									
-80		0.2	0.9	2.9	7.5	10.7	7.5	2.9										0.9
-90	0.2		0.9		2.9		7.5		10.7		7.5		2.9		0.9		0.2	

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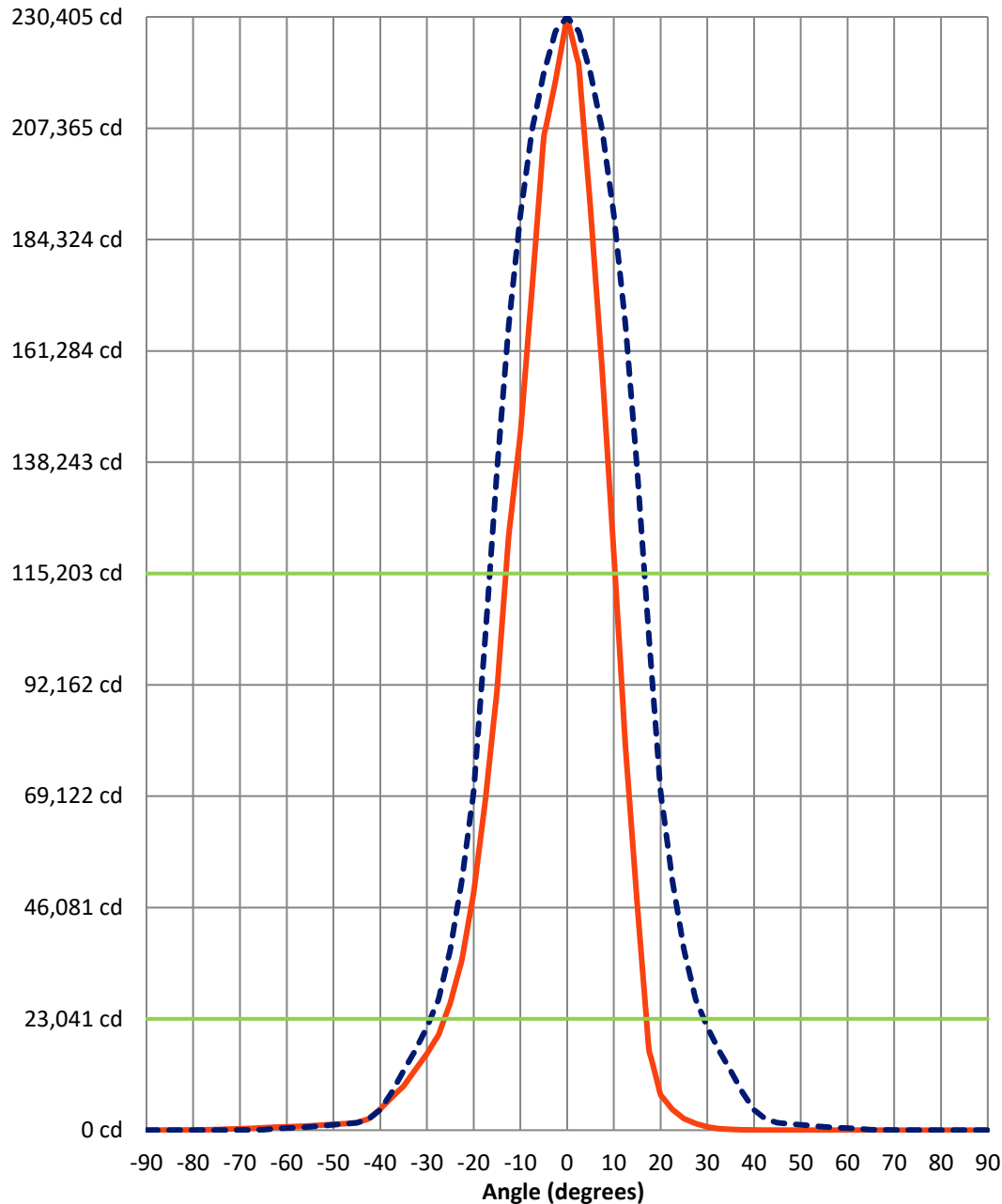
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 33.1°
 V Angle: 23.4°
 Lumens: 30774.4
 Efficiency: 50.6%

Field:
 H Angle: 58.5°
 V Angle: 43.2°
 Lumens: 52454.5
 Efficiency: 86.2%

Spill:
 Lumens: 8368.4
 Efficiency: 13.8%

- 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°	8.4	9.4	10.5	10.0	9.5	8.9	8.4	8.9	9.5	10.0	10.5
87.5°	8.4	8.5	8.6	8.7	8.8	8.9	8.9	8.9	8.8	8.6	8.4
85°	8.4	8.6	8.8	8.9	9.1	9.3	9.5	9.4	9.1	8.8	8.4
82.5°	8.4	8.7	8.9	9.2	9.5	9.8	10.0	9.8	9.5	9.2	9.0
80°	8.4	8.8	9.1	9.5	9.9	10.2	10.5	10.1	9.9	9.8	9.9
77.5°	8.4	8.9	9.3	9.8	10.2	10.5	10.5	10.3	10.2	10.4	10.5
75°	8.4	8.9	9.5	10.0	10.5	10.5	10.5	10.4	10.5	10.5	10.5
72.5°	8.4	9.0	9.7	10.3	10.5	10.5	10.5	10.5	10.5	10.5	10.5
70°	8.4	9.1	9.8	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
67.5°	8.4	9.2	10.0	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
65°	8.4	9.3	10.2	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
62.5°	8.4	9.4	10.3	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
60°	8.4	9.4	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
57.5°	8.4	9.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
55°	8.4	9.6	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
52.5°	8.4	9.7	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
50°	8.4	9.7	10.5	10.5	10.5	10.5	10.5	10.6	10.5	10.5	11.4
47.5°	8.4	9.8	10.5	10.5	10.5	10.5	10.5	10.8	10.5	10.5	12.4
45°	8.4	9.9	10.5	10.5	10.5	10.5	10.7	11.0	10.6	11.2	13.2
42.5°	8.4	9.9	10.5	10.5	10.5	10.5	10.9	11.1	10.7	11.7	13.7
40°	8.4	10.0	10.5	10.5	10.5	10.5	11.1	11.2	11.0	12.2	14.1
37.5°	8.4	10.1	10.5	10.5	10.5	10.5	11.4	11.4	11.7	13.0	14.5
35°	8.4	10.1	10.5	10.5	10.5	10.6	11.7	11.5	12.2	13.9	14.9
32.5°	8.4	10.2	10.5	10.5	10.5	10.9	11.9	11.6	12.8	15.1	16.4
30°	8.4	10.2	10.5	10.5	10.5	11.1	12.0	11.8	13.4	16.4	18.2
27.5°	8.4	10.3	10.5	10.5	10.5	11.3	12.2	12.3	14.1	17.9	20.2
25°	8.4	10.3	10.5	10.5	10.5	11.6	12.3	12.7	15.3	19.6	22.6
22.5°	8.4	10.3	10.5	10.5	10.5	11.8	12.4	13.2	16.5	21.4	27.0
20°	8.4	10.4	10.5	10.5	10.5	12.0	12.6	13.5	17.8	23.3	31.7
17.5°	8.4	10.4	10.5	10.5	10.5	12.1	12.7	13.9	19.1	25.3	36.7
15°	8.4	10.4	10.5	10.5	10.5	12.2	12.9	14.5	20.5	27.4	41.7
12.5°	8.4	10.5	10.5	10.5	10.5	12.3	13.2	15.6	22.4	29.5	46.9
10°	8.4	10.5	10.5	10.5	10.5	12.4	13.5	16.6	24.8	33.8	53.5
7.5°	8.4	10.5	10.5	10.5	10.5	12.5	13.8	17.8	27.2	38.5	63.6
5°	8.4	10.5	10.5	10.5	10.5	12.6	14.1	18.9	29.4	43.3	73.6
2.5°	8.4	10.5	10.5	10.5	10.5	12.6	14.4	20.0	31.6	48.1	83.3
0°	8.4	10.5	10.5	10.5	10.5	12.6	14.4	20.0	31.6	48.1	83.3
-2.5°	8.4	10.5	10.5	10.5	10.5	12.8	16.1	23.9	39.6	63.7	109.2
-5°	8.4	10.5	10.5	10.5	10.5	13.0	17.4	26.7	45.3	74.2	124.8
-7.5°	8.4	10.5	10.5	10.5	10.5	13.2	18.6	29.3	50.5	83.8	138.9
-10°	8.4	10.5	10.5	10.5	10.5	13.3	19.7	31.6	55.0	92.3	151.3
-12.5°	8.4	10.5	10.5	10.5	10.5	13.4	20.6	33.6	58.8	99.6	162.3
-15°	8.4	10.4	10.5	10.5	10.5	13.4	21.2	35.2	62.4	106.7	171.5
-17.5°	8.4	10.4	10.5	10.5	10.5	13.3	21.6	36.9	65.8	112.1	178.3
-20°	8.4	10.4	10.5	10.5	10.5	13.2	21.9	38.5	67.9	115.6	182.5



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 CATALOG NUMBER: EPH-LS-08-0640L-40-70-4S-CV5-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	8.4	10.4	10.5	10.5	10.5	13.0	22.4	39.6	68.6	117.1	184.1
-25°	8.4	10.3	10.5	10.5	10.5	13.0	22.5	40.1	67.9	116.5	182.9
-27.5°	8.4	10.3	10.5	10.5	10.5	13.0	22.2	40.1	65.6	114.5	181.8
-30°	8.4	10.3	10.5	10.5	10.5	12.9	21.4	39.4	64.2	111.8	177.9
-32.5°	8.4	10.3	10.5	10.5	10.7	12.5	20.1	38.4	63.2	106.9	171.0
-35°	8.4	10.2	10.5	10.5	10.8	12.0	19.3	36.8	61.4	99.8	161.0
-37.5°	8.4	10.2	10.5	10.5	11.0	11.6	18.7	34.6	58.6	90.3	145.0
-40°	8.4	10.2	10.5	10.5	11.1	11.8	17.8	31.6	54.9	84.3	129.1
-42.5°	8.4	10.1	10.5	10.5	11.2	12.0	16.6	28.0	50.6	77.3	111.9
-45°	8.4	10.1	10.5	10.6	11.3	12.1	15.1	24.7	45.6	69.2	95.0
-47.5°	8.4	10.1	10.5	10.6	11.4	12.3	13.4	22.6	39.6	60.4	84.9
-50°	8.4	10.0	10.5	10.6	11.4	12.4	13.3	20.2	31.9	51.6	73.9
-52.5°	8.4	10.0	10.5	10.7	11.4	12.6	13.4	17.3	26.8	42.3	62.1
-55°	8.4	10.0	10.5	10.7	11.4	12.6	13.6	14.5	22.9	32.5	51.0
-57.5°	8.4	9.9	10.5	10.7	11.3	12.5	13.7	14.7	18.9	26.8	39.1
-60°	8.4	9.9	10.5	10.7	11.3	12.3	13.8	14.8	15.7	22.3	29.3
-62.5°	8.4	9.9	10.5	10.6	11.2	12.2	13.6	14.8	15.5	17.8	24.4
-65°	8.4	9.8	10.5	10.6	11.1	12.0	13.2	14.5	15.1	16.4	19.5
-67.5°	8.4	9.8	10.5	10.6	11.0	11.7	12.9	14.0	14.7	15.6	17.2
-70°	8.4	9.8	10.5	10.5	10.8	11.5	12.5	13.4	14.0	14.7	15.9
-72.5°	8.4	9.7	10.5	10.5	10.7	11.2	12.0	12.8	13.4	14.0	14.5
-75°	8.4	9.7	10.5	10.4	10.5	10.9	11.6	12.1	12.7	13.2	13.7
-77.5°	8.4	9.7	10.5	10.3	10.4	10.6	11.1	11.5	12.0	12.4	12.8
-80°	8.4	9.6	10.5	10.3	10.2	10.3	10.6	10.9	11.3	11.6	11.9
-82.5°	8.4	9.6	10.5	10.2	10.0	10.0	10.0	10.3	10.5	10.8	11.1
-85°	8.4	9.5	10.5	10.1	9.8	9.6	9.5	9.9	10.2	10.4	10.5
-87.5°	8.4	9.5	10.5	10.0	9.6	9.3	8.9	9.4	9.8	10.2	10.5
-90°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4



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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°	10.0	9.5	8.9	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
87.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	7.9	7.4	6.8
85°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.1	7.9	7.8
82.5°	9.0	8.9	8.7	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
80°	9.8	9.5	9.0	8.5	8.4	8.4	8.4	8.4	8.4	8.4	8.4
77.5°	10.1	9.6	9.1	8.5	8.4	8.4	8.4	8.4	8.4	8.4	8.4
75°	10.1	9.6	9.1	8.6	8.4	8.4	8.5	8.9	9.1	9.1	8.9
72.5°	10.2	9.7	9.2	8.7	8.9	9.4	9.8	10.3	10.8	11.1	11.4
70°	10.3	9.8	9.6	9.7	10.1	10.7	11.6	12.8	13.9	14.7	16.0
67.5°	10.4	10.1	10.2	10.6	11.3	12.4	13.7	16.4	19.3	21.0	22.7
65°	10.5	10.4	10.8	11.5	12.5	15.1	18.2	21.6	26.7	29.8	31.1
62.5°	10.5	10.7	11.2	12.7	15.7	19.0	23.3	29.0	36.1	40.9	41.1
60°	10.5	10.8	12.5	15.5	18.8	22.9	28.6	36.5	46.8	54.6	49.7
57.5°	10.5	11.7	14.7	17.8	21.5	26.1	33.6	43.6	53.5	63.8	54.8
55°	11.0	13.4	16.3	19.6	23.7	28.8	36.5	45.0	55.7	58.9	48.6
52.5°	12.4	14.8	17.3	20.9	25.5	29.9	34.8	42.2	45.6	46.3	38.5
50°	13.7	15.5	17.9	21.7	26.2	29.4	30.5	34.8	35.1	31.8	27.6
47.5°	14.4	16.2	18.0	22.2	26.2	28.1	27.6	26.6	24.4	22.5	17.5
45°	15.0	16.8	18.6	22.7	26.0	26.7	24.3	19.2	20.0	17.8	16.6
42.5°	15.5	17.4	20.2	23.4	25.5	25.3	21.9	20.3	18.9	18.5	18.0
40°	16.0	18.0	22.2	25.0	25.6	24.8	24.9	23.8	20.5	21.8	22.0
37.5°	16.5	20.0	25.0	29.2	26.3	27.8	29.7	30.2	28.5	27.8	30.7
35°	16.9	22.2	30.6	35.3	32.7	33.6	37.6	39.3	39.7	39.5	41.7
32.5°	18.3	24.6	38.0	42.6	43.9	44.5	47.4	51.4	55.9	57.9	55.5
30°	21.3	31.5	46.6	51.5	56.9	64.8	63.1	66.1	76.4	80.6	84.6
27.5°	26.1	40.5	55.2	63.5	73.2	91.1	97.5	91.0	99.8	108.2	120.8
25°	31.6	63.2	64.7	77.1	99.0	126.0	143.1	150.5	130.9	145.5	179.4
22.5°	43.8	92.8	98.8	91.7	128.9	168.6	202.5	220.6	218.2	204.1	249.7
20°	65.5	122.8	138.7	141.7	170.1	217.6	270.3	301.2	330.3	381.2	514.7
17.5°	90.8	156.1	181.1	206.5	258.0	300.2	345.4	391.1	460.3	611.6	1064.6
15°	119.0	191.9	225.4	277.0	353.6	424.3	479.3	520.3	642.6	959.5	1760.6
12.5°	149.0	229.6	271.1	351.5	454.4	554.7	632.8	715.5	921.1	1544.3	2867.3
10°	179.9	268.5	317.6	428.6	558.5	689.2	790.5	915.0	1236.5	2206.3	4075.2
7.5°	214.1	309.9	365.1	506.6	663.8	825.6	950.3	1116.1	1558.3	2875.3	5290.7
5°	247.4	353.4	415.6	573.9	752.5	945.4	1099.5	1314.9	1876.6	3523.8	6471.8
2.5°	277.9	395.5	465.1	635.3	827.0	1036.4	1201.3	1433.9	2097.0	3949.8	7341.2
0°	304.8	435.2	513.0	691.7	895.6	1120.6	1297.2	1543.2	2274.8	4206.9	7860.8
-2.5°	315.1	450.5	532.6	706.0	905.2	1134.9	1314.8	1552.7	2329.3	4311.1	7937.4
-5°	320.9	462.3	549.9	715.3	908.5	1140.4	1325.1	1552.5	2315.7	4220.8	7564.3
-7.5°	322.8	470.2	564.5	716.5	891.4	1103.8	1273.3	1471.1	2133.2	3847.6	6759.9
-10°	320.9	469.0	560.1	690.1	846.8	1039.4	1203.9	1382.0	1922.8	3379.5	5865.3
-12.5°	315.0	460.4	551.7	662.2	800.7	970.4	1131.0	1287.1	1689.1	2822.4	4943.9
-15°	307.1	450.3	543.0	633.8	754.3	897.8	1055.7	1187.5	1445.9	2227.9	4029.4
-17.5°	297.8	439.0	534.2	606.0	708.9	822.7	982.2	1104.4	1266.5	1848.9	3293.6
-20°	287.4	427.1	525.9	579.5	666.6	765.6	911.4	1035.6	1172.7	1550.1	2504.6



REPORT NUMBER: P701473 (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°	276.6	414.9	513.9	564.7	638.7	726.4	840.2	962.8	1077.3	1220.4	1834.7
-25°	271.2	397.0	496.1	554.7	612.8	688.2	771.3	886.3	988.7	1126.1	1480.6
-27.5°	268.6	380.2	475.0	543.4	587.5	653.5	722.3	811.1	928.2	1049.7	1178.2
-30°	262.4	355.3	453.3	527.7	571.4	625.1	682.7	758.1	870.0	982.2	1095.7
-32.5°	247.0	328.7	425.4	502.6	556.7	598.4	654.3	723.5	813.4	916.4	1018.3
-35°	227.1	305.5	393.8	477.6	539.8	580.3	631.2	690.6	760.9	853.2	962.2
-37.5°	207.2	279.7	360.8	447.6	512.6	566.0	606.7	660.6	721.7	794.9	902.1
-40°	184.9	251.4	329.0	410.4	486.6	545.2	590.5	631.2	684.0	755.9	832.6
-42.5°	161.1	224.4	295.4	371.6	447.5	514.7	572.0	610.5	655.3	717.5	787.5
-45°	140.9	194.9	259.9	330.1	401.5	475.4	536.5	592.5	633.3	680.6	742.9
-47.5°	119.5	165.3	224.4	285.8	353.0	422.4	493.7	553.0	610.7	653.9	697.9
-50°	99.5	140.5	185.9	242.9	302.3	366.8	433.3	503.6	564.2	619.9	667.9
-52.5°	86.0	114.5	154.7	199.7	253.0	309.0	371.3	435.9	502.4	565.8	615.7
-55°	71.4	95.6	123.9	162.1	205.0	254.4	307.8	367.2	426.0	488.0	545.0
-57.5°	57.3	78.1	100.1	126.9	163.0	201.7	248.9	298.3	352.1	405.2	450.5
-60°	43.3	61.3	81.0	101.0	123.1	156.8	191.2	232.8	278.5	322.7	362.5
-62.5°	30.5	45.3	62.4	80.3	98.2	115.7	143.2	174.3	205.5	242.8	277.7
-65°	25.4	31.6	44.1	59.9	76.1	92.3	108.1	123.5	149.3	175.6	200.1
-67.5°	20.1	25.7	31.5	39.3	53.6	68.0	83.0	97.1	110.7	124.0	139.4
-70°	17.8	20.1	24.6	29.9	35.3	42.5	55.2	68.3	81.8	95.3	107.1
-72.5°	16.1	18.2	20.4	22.5	26.8	31.4	35.8	40.1	48.5	60.2	72.1
-75°	14.7	16.3	18.3	20.3	22.1	23.9	26.2	30.1	34.0	37.9	42.0
-77.5°	13.5	14.5	15.9	17.7	19.4	20.8	22.4	24.1	25.9	27.8	29.8
-80°	12.3	12.6	13.3	14.4	15.7	17.1	18.5	19.8	21.0	22.4	23.8
-82.5°	11.3	11.5	11.8	12.0	12.6	13.4	14.3	15.4	16.1	16.9	17.7
-85°	10.5	10.5	10.7	10.8	11.1	11.4	11.8	12.2	12.5	12.7	13.0
-87.5°	10.2	10.0	9.8	9.6	9.7	9.7	9.8	9.9	9.9	10.0	10.1
-90°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	7.9	7.4	6.8



REPORT NUMBER: P701473 (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°	8.4	9.5	10.5	11.5	12.6	13.6	14.7	15.8	16.8	17.9	18.9
87.5°	6.3	6.3	6.3	6.3	6.3	5.8	5.3	4.7	4.2	3.7	3.2
85°	7.6	7.4	7.1	6.7	6.3	5.8	5.3	4.7	4.2	3.7	3.2
82.5°	8.4	7.9	7.4	6.9	6.3	5.8	5.3	4.8	4.2	3.7	3.2
80°	8.4	8.0	7.4	6.9	6.4	5.8	5.3	4.8	4.2	3.7	3.2
77.5°	8.4	8.0	7.5	6.9	6.4	5.9	5.3	4.8	4.3	4.1	4.1
75°	8.6	8.2	8.1	7.9	7.4	7.0	6.7	6.4	6.0	5.6	5.2
72.5°	11.6	11.6	11.3	11.0	10.4	9.8	9.4	8.9	8.1	7.6	7.2
70°	17.2	17.9	17.4	16.2	14.4	12.9	12.0	11.2	10.3	9.4	8.5
67.5°	23.9	23.9	22.2	20.0	17.0	14.3	13.2	12.1	11.0	10.4	10.2
65°	31.0	28.9	26.0	22.5	18.4	14.5	13.4	12.3	11.1	10.5	10.5
62.5°	38.8	32.4	26.1	21.5	17.7	14.5	13.0	11.5	10.0	9.0	8.8
60°	41.7	30.9	22.3	18.6	15.5	12.9	11.3	10.1	9.1	8.4	8.4
57.5°	40.4	27.6	18.0	14.9	12.6	11.0	9.9	8.9	7.9	7.0	6.8
55°	34.5	22.5	13.5	11.6	10.4	9.2	8.2	7.6	7.0	6.3	6.3
52.5°	25.3	17.3	12.1	10.1	9.5	8.9	8.3	8.1	7.9	7.7	7.5
50°	18.5	13.4	11.5	10.3	9.9	9.9	10.2	10.2	10.0	9.8	9.5
47.5°	15.1	13.1	11.8	10.6	10.9	11.8	12.3	12.3	12.2	11.9	11.6
45°	14.6	13.4	12.8	13.5	14.1	14.7	14.8	14.4	15.1	15.3	15.0
42.5°	16.1	16.3	17.5	18.5	17.8	19.0	20.3	20.2	21.2	21.9	21.9
40°	22.6	22.1	25.3	26.3	26.7	28.0	31.6	31.2	32.8	37.2	38.1
37.5°	32.4	34.3	36.5	38.5	44.1	47.7	54.7	60.3	63.4	71.8	78.3
35°	45.8	50.4	51.7	62.8	74.3	85.1	94.9	106.7	111.8	130.5	143.5
32.5°	64.9	74.3	87.1	105.5	127.3	153.2	152.0	191.4	205.7	244.2	288.3
30°	90.8	117.2	159.2	188.3	241.8	283.9	305.1	366.6	449.3	528.3	635.9
27.5°	147.6	203.2	279.2	379.4	431.6	494.9	590.8	664.4	853.1	1033.4	1165.8
25°	253.8	370.6	513.9	661.8	754.5	837.6	1012.8	1141.3	1408.9	1609.8	1896.4
22.5°	485.4	734.7	916.1	1026.0	1224.9	1484.9	1611.1	1964.6	2361.3	2867.9	3286.5
20°	817.9	1210.2	1614.6	1861.6	2088.7	2662.7	2914.2	3576.2	4419.6	5372.9	6167.5
17.5°	1600.5	1958.8	2782.1	3584.4	4187.8	4754.5	6345.1	7481.4	9686.6	12385.7	13630.5
15°	2871.9	3873.6	4834.4	6289.5	7829.4	9542.6	12038.6	16347.9	21760.5	27662.4	34046.3
12.5°	4655.8	6484.5	8203.0	10034.6	12239.2	16448.8	22139.8	29666.2	39391.5	49825.9	61873.7
10°	6659.8	9443.0	11953.1	14718.4	18632.8	24886.8	33321.9	44932.7	62251.8	79955.3	95311.4
7.5°	8454.6	11825.3	15230.0	19232.6	25437.3	34369.4	46505.2	64633.7	87250.9	109159.1	127839.4
5°	10174.5	14112.0	17992.8	22763.5	30583.4	42240.6	57946.5	82816.9	111409.0	135717.8	156190.5
2.5°	11514.5	15901.4	20342.4	25953.2	34875.0	48138.3	65977.2	96079.4	130588.7	157548.4	180957.7
0°	12282.2	16489.1	21309.8	27123.0	37388.9	51836.6	70131.6	102184.6	136552.4	166512.6	189389.7
-2.5°	12131.8	16540.1	21468.5	27349.3	37079.9	50950.8	68985.7	99562.0	133768.5	160777.3	182944.8
-5°	11365.9	15399.2	19744.3	24903.7	33489.8	46128.9	63836.7	92570.1	124315.6	151330.8	173860.7
-7.5°	10171.7	13738.2	17520.8	22011.5	29272.9	40270.8	55491.8	77864.3	105991.0	130458.3	147344.8
-10°	8868.1	12006.4	15419.8	19483.8	25211.0	33832.7	45365.5	61526.8	84531.0	104918.9	120582.5
-12.5°	7632.3	10485.2	13454.6	16848.0	21183.0	27973.7	36739.0	48804.7	63633.7	80392.8	96392.2
-15°	6447.0	8952.4	11543.6	14684.7	18454.6	23061.9	28954.4	37072.5	46814.9	57799.2	69648.5
-17.5°	5318.7	7518.5	9956.5	12699.2	15814.5	19334.5	24276.3	29843.1	36028.1	43185.1	49970.6
-20°	4172.7	6205.3	8417.5	10859.2	13654.2	16863.2	20379.6	24561.1	29035.7	33925.8	39001.8



REPORT NUMBER: P701473 (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°	3184.6	4916.7	6852.2	9075.2	11699.3	14527.9	17255.5	20000.1	23310.6	26535.6	29774.7
-25°	2230.0	3603.6	5410.8	7535.8	9764.0	12128.1	14152.5	16087.0	18385.9	20453.5	22606.6
-27.5°	1640.2	2583.8	4078.3	5963.1	7961.3	9582.9	11287.2	12874.1	14538.8	15851.0	17367.6
-30°	1250.8	1794.1	2904.6	4374.7	5978.0	7390.9	8706.3	10143.3	11512.1	12651.3	13604.8
-32.5°	1140.7	1347.8	1909.9	2934.0	4092.9	5346.6	6484.6	7735.5	8883.7	9831.2	10590.3
-35°	1072.0	1184.3	1348.2	1865.2	2544.7	3534.5	4484.1	5508.5	6460.2	7241.9	7870.4
-37.5°	1013.4	1111.9	1208.6	1305.8	1680.1	2097.6	2782.9	3524.4	4167.3	4882.1	5440.1
-40°	940.7	1051.3	1129.4	1209.3	1299.2	1403.7	1765.3	2090.0	2453.5	2958.2	3375.9
-42.5°	860.8	954.2	1051.6	1129.8	1199.0	1272.8	1354.7	1435.9	1603.1	1815.2	1987.9
-45°	808.4	869.9	940.6	1029.4	1110.5	1171.9	1232.7	1291.7	1347.5	1397.7	1439.8
-47.5°	752.0	804.2	861.6	922.6	982.5	1050.8	1114.8	1168.3	1210.6	1251.1	1287.2
-50°	701.7	740.3	788.7	836.2	883.4	931.8	979.6	1020.9	1061.8	1098.7	1134.7
-52.5°	661.0	693.6	725.4	757.1	795.6	833.0	868.3	900.1	929.1	954.3	980.8
-55°	592.6	633.6	674.3	702.5	726.8	750.2	773.5	799.8	822.9	842.6	861.2
-57.5°	499.6	549.2	594.5	627.7	659.1	688.6	709.1	724.2	738.8	752.7	765.4
-60°	401.0	438.2	481.5	524.1	563.3	598.9	621.8	641.3	657.8	671.6	683.9
-62.5°	309.9	341.7	377.2	411.4	443.1	474.3	504.8	531.3	554.1	573.4	589.2
-65°	225.7	253.5	283.7	312.8	340.6	368.1	393.3	416.3	437.0	455.6	472.8
-67.5°	160.7	181.1	202.9	222.6	244.9	268.9	292.7	314.0	332.9	347.9	359.1
-70°	118.2	129.8	144.2	161.1	179.4	196.7	213.8	230.2	245.9	259.3	271.4
-72.5°	84.0	95.9	107.4	118.1	129.4	140.8	152.4	164.5	176.8	187.2	196.1
-75°	46.1	52.0	61.7	71.1	80.2	88.9	96.6	103.4	109.3	114.2	118.4
-77.5°	32.7	36.6	40.6	44.5	48.3	52.9	57.8	62.6	67.4	71.2	74.7
-80°	25.3	27.4	29.8	32.3	34.9	38.1	41.3	44.6	48.0	50.3	52.5
-82.5°	18.5	20.1	21.7	23.3	24.8	26.8	28.8	30.8	32.7	34.0	35.3
-85°	13.2	14.2	15.4	16.5	17.7	19.5	21.2	23.0	24.7	25.9	27.1
-87.5°	10.1	10.8	11.4	12.0	12.6	14.1	15.7	17.2	18.8	19.4	19.9
-90°	6.3	6.3	6.3	6.3	6.3	5.8	5.3	4.7	4.2	3.7	3.2



REPORT NUMBER: P701473 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-4S-CV5-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	19.9	21.0	21.0	21.0	21.0	21.0	19.9	18.9	17.9	16.8	15.8
87.5°	2.6	2.1	2.1	2.1	2.1	2.1	2.6	3.2	3.7	4.2	4.7
85°	2.6	2.1	2.1	2.1	2.1	2.1	2.6	3.2	3.7	4.2	4.7
82.5°	2.6	2.1	2.1	2.1	2.1	2.1	2.6	3.2	3.7	4.2	4.8
80°	2.6	2.1	2.1	2.1	2.1	2.1	2.6	3.2	3.7	4.2	4.8
77.5°	4.1	4.2	3.2	2.1	3.2	4.2	4.1	4.1	4.1	4.3	4.8
75°	4.7	4.2	3.2	2.1	3.2	4.2	4.7	5.2	5.6	6.0	6.4
72.5°	6.8	6.3	6.3	6.3	6.3	6.3	6.8	7.2	7.6	8.1	8.9
70°	7.5	6.4	6.3	6.3	6.3	6.4	7.5	8.5	9.4	10.3	11.2
67.5°	10.3	10.4	10.5	10.5	10.5	10.4	10.3	10.2	10.4	11.0	12.1
65°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	11.1	12.3
62.5°	8.6	8.5	8.4	8.4	8.4	8.5	8.6	8.8	9.0	10.0	11.5
60°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	9.1	10.1
57.5°	6.6	6.4	6.3	6.3	6.3	6.4	6.6	6.8	7.0	7.9	8.9
55°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	7.0	7.6
52.5°	7.1	6.6	6.3	6.3	6.3	6.6	7.1	7.5	7.7	7.9	8.1
50°	9.1	8.6	8.4	8.4	8.4	8.6	9.1	9.5	9.8	10.0	10.2
47.5°	11.2	10.7	10.5	10.5	10.5	10.7	11.2	11.6	11.9	12.2	12.3
45°	14.3	13.2	12.6	12.6	12.6	13.2	14.3	15.0	15.3	15.1	14.4
42.5°	21.7	21.2	20.8	21.0	20.8	21.2	21.7	21.9	21.9	21.2	20.2
40°	39.9	41.0	41.5	42.0	41.5	41.0	39.9	38.1	37.2	32.8	31.2
37.5°	81.9	80.4	76.8	77.8	76.8	80.4	81.9	78.3	71.8	63.4	60.3
35°	152.1	161.2	167.7	172.4	167.7	161.2	152.1	143.5	130.5	111.8	106.7
32.5°	304.7	317.2	313.6	306.9	313.6	317.2	304.7	288.3	244.2	205.7	191.4
30°	699.4	735.9	726.1	683.3	726.1	735.9	699.4	635.9	528.3	449.3	366.6
27.5°	1260.9	1349.0	1406.5	1377.1	1406.5	1349.0	1260.9	1165.8	1033.4	853.1	664.4
25°	2143.6	2314.9	2437.5	2386.2	2437.5	2314.9	2143.6	1896.4	1609.8	1408.9	1141.3
22.5°	3811.5	4092.8	4259.9	4303.6	4259.9	4092.8	3811.5	3286.5	2867.9	2361.3	1964.6
20°	7167.1	7391.4	7435.8	7324.7	7435.8	7391.4	7167.1	6167.5	5372.9	4419.6	3576.2
17.5°	17244.8	18280.5	17521.3	16724.5	17521.3	18280.5	17244.8	13630.5	12385.7	9686.6	7481.4
15°	39448.2	43822.2	46313.9	46822.4	46313.9	43822.2	39448.2	34046.3	27662.4	21760.5	16347.9
12.5°	69510.0	76558.9	79467.8	79196.1	79467.8	76558.9	69510.0	61873.7	49825.9	39391.5	29666.2
10°	105161.7	112697.8	119182.0	119247.7	119182.0	112697.8	105161.7	95311.4	79955.3	62251.8	44932.7
7.5°	140805.2	149496.3	155596.4	157336.7	155596.4	149496.3	140805.2	127839.4	109159.1	87250.9	64633.7
5°	172008.7	182768.8	188825.0	190674.3	188825.0	182768.8	172008.7	156190.5	135717.8	111409.0	82816.9
2.5°	199442.9	212624.5	219266.6	220299.1	219266.6	212624.5	199442.9	180957.7	157548.4	130588.7	96079.4
0°	206991.0	218741.2	227343.2	230405.3	227343.2	218741.2	206991.0	189389.7	166512.6	136552.4	102184.6
-2.5°	199549.7	209829.8	214956.6	217095.0	214956.6	209829.8	199549.7	182944.8	160777.3	133768.5	99562.0
-5°	187787.4	197381.1	203910.4	205422.6	203910.4	197381.1	187787.4	173860.7	151330.8	124315.6	92570.1
-7.5°	158482.3	167925.4	170859.1	174185.2	170859.1	167925.4	158482.3	147344.8	130458.3	105991.0	77864.3
-10°	132415.1	139761.1	141781.5	144137.9	141781.5	139761.1	132415.1	120582.5	104918.9	84531.0	61526.8
-12.5°	109562.2	116838.6	120132.7	122952.1	120132.7	116838.6	109562.2	96392.2	80392.8	63633.7	48804.7
-15°	80269.1	87108.1	89470.4	90995.7	89470.4	87108.1	80269.1	69648.5	57799.2	46814.9	37072.5
-17.5°	58145.5	63354.1	66449.2	68243.6	66449.2	63354.1	58145.5	49970.6	43185.1	36028.1	29843.1
-20°	43463.6	46448.5	48846.1	49109.8	48846.1	46448.5	43463.6	39001.8	33925.8	29035.7	24561.1



REPORT NUMBER: P701473 (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°	32488.3	34266.2	35370.0	35303.4	35370.0	34266.2	32488.3	29774.7	26535.6	23310.6	20000.1
-25°	24248.7	25444.0	26204.2	26340.9	26204.2	25444.0	24248.7	22606.6	20453.5	18385.9	16087.0
-27.5°	18453.2	19294.8	19730.8	19754.1	19730.8	19294.8	18453.2	17367.6	15851.0	14538.8	12874.1
-30°	14296.7	14997.6	15462.5	15818.4	15462.5	14997.6	14296.7	13604.8	12651.3	11512.1	10143.3
-32.5°	11228.1	11826.4	12232.0	12473.5	12232.0	11826.4	11228.1	10590.3	9831.2	8883.7	7735.5
-35°	8417.7	8896.9	9183.6	9111.8	9183.6	8896.9	8417.7	7870.4	7241.9	6460.2	5508.5
-37.5°	5931.6	6337.8	6626.7	6809.6	6626.7	6337.8	5931.6	5440.1	4882.1	4167.3	3524.4
-40°	3737.5	4018.4	4218.3	4345.6	4218.3	4018.4	3737.5	3375.9	2958.2	2453.5	2090.0
-42.5°	2128.5	2233.6	2304.3	2342.1	2304.3	2233.6	2128.5	1987.9	1815.2	1603.1	1435.9
-45°	1472.2	1498.4	1517.3	1528.4	1517.3	1498.4	1472.2	1439.8	1397.7	1347.5	1291.7
-47.5°	1315.6	1337.0	1351.0	1358.1	1351.0	1337.0	1315.6	1287.2	1251.1	1210.6	1168.3
-50°	1167.1	1193.4	1209.4	1215.2	1209.4	1193.4	1167.1	1134.7	1098.7	1061.8	1020.9
-52.5°	1005.6	1027.1	1041.4	1049.1	1041.4	1027.1	1005.6	980.8	954.3	929.1	900.1
-55°	877.5	891.1	898.2	899.8	898.2	891.1	877.5	861.2	842.6	822.9	799.8
-57.5°	776.2	784.9	791.9	796.8	791.9	784.9	776.2	765.4	752.7	738.8	724.2
-60°	693.8	701.4	705.3	706.4	705.3	701.4	693.8	683.9	671.6	657.8	641.3
-62.5°	601.5	610.5	617.5	622.3	617.5	610.5	601.5	589.2	573.4	554.1	531.3
-65°	488.4	502.1	509.3	513.0	509.3	502.1	488.4	472.8	455.6	437.0	416.3
-67.5°	368.1	375.0	376.7	376.3	376.7	375.0	368.1	359.1	347.9	332.9	314.0
-70°	282.7	292.9	296.7	298.5	296.7	292.9	282.7	271.4	259.3	245.9	230.2
-72.5°	204.3	211.6	215.8	218.6	215.8	211.6	204.3	196.1	187.2	176.8	164.5
-75°	122.0	125.0	126.9	128.2	126.9	125.0	122.0	118.4	114.2	109.3	103.4
-77.5°	78.1	81.4	82.9	84.1	82.9	81.4	78.1	74.7	71.2	67.4	62.6
-80°	54.5	56.5	56.7	56.8	56.7	56.5	54.5	52.5	50.3	48.0	44.6
-82.5°	36.5	37.7	37.8	37.8	37.8	37.7	36.5	35.3	34.0	32.7	30.8
-85°	28.2	29.3	29.4	29.4	29.4	29.3	28.2	27.1	25.9	24.7	23.0
-87.5°	20.5	21.0	22.0	23.1	22.0	21.0	20.5	19.9	19.4	18.8	17.2
-90°	2.6	2.1	1.1	0.0	1.1	2.1	2.6	3.2	3.7	4.2	4.7



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	14.7	13.6	12.6	11.5	10.5	9.5	8.4	8.4	8.4	8.4	8.4
87.5°	5.3	5.8	6.3	6.3	6.3	6.3	6.3	6.8	7.4	7.9	8.4
85°	5.3	5.8	6.3	6.7	7.1	7.4	7.6	7.8	7.9	8.1	8.4
82.5°	5.3	5.8	6.3	6.9	7.4	7.9	8.4	8.4	8.4	8.4	8.4
80°	5.3	5.8	6.4	6.9	7.4	8.0	8.4	8.4	8.4	8.4	8.4
77.5°	5.3	5.9	6.4	6.9	7.5	8.0	8.4	8.4	8.4	8.4	8.4
75°	6.7	7.0	7.4	7.9	8.1	8.2	8.6	8.9	9.1	9.1	8.9
72.5°	9.4	9.8	10.4	11.0	11.3	11.6	11.6	11.4	11.1	10.8	10.3
70°	12.0	12.9	14.4	16.2	17.4	17.9	17.2	16.0	14.7	13.9	12.8
67.5°	13.2	14.3	17.0	20.0	22.2	23.9	23.9	22.7	21.0	19.3	16.4
65°	13.4	14.5	18.4	22.5	26.0	28.9	31.0	31.1	29.8	26.7	21.6
62.5°	13.0	14.5	17.7	21.5	26.1	32.4	38.8	41.1	40.9	36.1	29.0
60°	11.3	12.9	15.5	18.6	22.3	30.9	41.7	49.7	54.6	46.8	36.5
57.5°	9.9	11.0	12.6	14.9	18.0	27.6	40.4	54.8	63.8	53.5	43.6
55°	8.2	9.2	10.4	11.6	13.5	22.5	34.5	48.6	58.9	55.7	45.0
52.5°	8.3	8.9	9.5	10.1	12.1	17.3	25.3	38.5	46.3	45.6	42.2
50°	10.2	9.9	9.9	10.3	11.5	13.4	18.5	27.6	31.8	35.1	34.8
47.5°	12.3	11.8	10.9	10.6	11.8	13.1	15.1	17.5	22.5	24.4	26.6
45°	14.8	14.7	14.1	13.5	12.8	13.4	14.6	16.6	17.8	20.0	19.2
42.5°	20.3	19.0	17.8	18.5	17.5	16.3	16.1	18.0	18.5	18.9	20.3
40°	31.6	28.0	26.7	26.3	25.3	22.1	22.6	22.0	21.8	20.5	23.8
37.5°	54.7	47.7	44.1	38.5	36.5	34.3	32.4	30.7	27.8	28.5	30.2
35°	94.9	85.1	74.3	62.8	51.7	50.4	45.8	41.7	39.5	39.7	39.3
32.5°	152.0	153.2	127.3	105.5	87.1	74.3	64.9	55.5	57.9	55.9	51.4
30°	305.1	283.9	241.8	188.3	159.2	117.2	90.8	84.6	80.6	76.4	66.1
27.5°	590.8	494.9	431.6	379.4	279.2	203.2	147.6	120.8	108.2	99.8	91.0
25°	1012.8	837.6	754.5	661.8	513.9	370.6	253.8	179.4	145.5	130.9	150.5
22.5°	1611.1	1484.9	1224.9	1026.0	916.1	734.7	485.4	249.7	204.1	218.2	220.6
20°	2914.2	2662.7	2088.7	1861.6	1614.6	1210.2	817.9	514.7	381.2	330.3	301.2
17.5°	6345.1	4754.5	4187.8	3584.4	2782.1	1958.8	1600.5	1064.6	611.6	460.3	391.1
15°	12038.6	9542.6	7829.4	6289.5	4834.4	3873.6	2871.9	1760.6	959.5	642.6	520.3
12.5°	22139.8	16448.8	12239.2	10034.6	8203.0	6484.5	4655.8	2867.3	1544.3	921.1	715.5
10°	33321.9	24886.8	18632.8	14718.4	11953.1	9443.0	6659.8	4075.2	2206.3	1236.5	915.0
7.5°	46505.2	34369.4	25437.3	19232.6	15230.0	11825.3	8454.6	5290.7	2875.3	1558.3	1116.1
5°	57946.5	42240.6	30583.4	22763.5	17992.8	14112.0	10174.5	6471.8	3523.8	1876.6	1314.9
2.5°	65977.2	48138.3	34875.0	25953.2	20342.4	15901.4	11514.5	7341.2	3949.8	2097.0	1433.9
0°	70131.6	51836.6	37388.9	27123.0	21309.8	16489.1	12282.2	7860.8	4206.9	2274.8	1543.2
-2.5°	68985.7	50950.8	37079.9	27349.3	21468.5	16540.1	12131.8	7937.4	4311.1	2329.3	1552.7
-5°	63836.7	46128.9	33489.8	24903.7	19744.3	15399.2	11365.9	7564.3	4220.8	2315.7	1552.5
-7.5°	55491.8	40270.8	29272.9	22011.5	17520.8	13738.2	10171.7	6759.9	3847.6	2133.2	1471.1
-10°	45365.5	33832.7	25211.0	19483.8	15419.8	12006.4	8868.1	5865.3	3379.5	1922.8	1382.0
-12.5°	36739.0	27973.7	21183.0	16848.0	13454.6	10485.2	7632.3	4943.9	2822.4	1689.1	1287.1
-15°	28954.4	23061.9	18454.6	14684.7	11543.6	8952.4	6447.0	4029.4	2227.9	1445.9	1187.5
-17.5°	24276.3	19334.5	15814.5	12699.2	9956.5	7518.5	5318.7	3293.6	1848.9	1266.5	1104.4
-20°	20379.6	16863.2	13654.2	10859.2	8417.5	6205.3	4172.7	2504.6	1550.1	1172.7	1035.6



REPORT NUMBER: P701473 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-4S-CV5-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	17255.5	14527.9	11699.3	9075.2	6852.2	4916.7	3184.6	1834.7	1220.4	1077.3	962.8
-25°	14152.5	12128.1	9764.0	7535.8	5410.8	3603.6	2230.0	1480.6	1126.1	988.7	886.3
-27.5°	11287.2	9582.9	7961.3	5963.1	4078.3	2583.8	1640.2	1178.2	1049.7	928.2	811.1
-30°	8706.3	7390.9	5978.0	4374.7	2904.6	1794.1	1250.8	1095.7	982.2	870.0	758.1
-32.5°	6484.6	5346.6	4092.9	2934.0	1909.9	1347.8	1140.7	1018.3	916.4	813.4	723.5
-35°	4484.1	3534.5	2544.7	1865.2	1348.2	1184.3	1072.0	962.2	853.2	760.9	690.6
-37.5°	2782.9	2097.6	1680.1	1305.8	1208.6	1111.9	1013.4	902.1	794.9	721.7	660.6
-40°	1765.3	1403.7	1299.2	1209.3	1129.4	1051.3	940.7	832.6	755.9	684.0	631.2
-42.5°	1354.7	1272.8	1199.0	1129.8	1051.6	954.2	860.8	787.5	717.5	655.3	610.5
-45°	1232.7	1171.9	1110.5	1029.4	940.6	869.9	808.4	742.9	680.6	633.3	592.5
-47.5°	1114.8	1050.8	982.5	922.6	861.6	804.2	752.0	697.9	653.9	610.7	553.0
-50°	979.6	931.8	883.4	836.2	788.7	740.3	701.7	667.9	619.9	564.2	503.6
-52.5°	868.3	833.0	795.6	757.1	725.4	693.6	661.0	615.7	565.8	502.4	435.9
-55°	773.5	750.2	726.8	702.5	674.3	633.6	592.6	545.0	488.0	426.0	367.2
-57.5°	709.1	688.6	659.1	627.7	594.5	549.2	499.6	450.5	405.2	352.1	298.3
-60°	621.8	598.9	563.3	524.1	481.5	438.2	401.0	362.5	322.7	278.5	232.8
-62.5°	504.8	474.3	443.1	411.4	377.2	341.7	309.9	277.7	242.8	205.5	174.3
-65°	393.3	368.1	340.6	312.8	283.7	253.5	225.7	200.1	175.6	149.3	123.5
-67.5°	292.7	268.9	244.9	222.6	202.9	181.1	160.7	139.4	124.0	110.7	97.1
-70°	213.8	196.7	179.4	161.1	144.2	129.8	118.2	107.1	95.3	81.8	68.3
-72.5°	152.4	140.8	129.4	118.1	107.4	95.9	84.0	72.1	60.2	48.5	40.1
-75°	96.6	88.9	80.2	71.1	61.7	52.0	46.1	42.0	37.9	34.0	30.1
-77.5°	57.8	52.9	48.3	44.5	40.6	36.6	32.7	29.8	27.8	25.9	24.1
-80°	41.3	38.1	34.9	32.3	29.8	27.4	25.3	23.8	22.4	21.0	19.8
-82.5°	28.8	26.8	24.8	23.3	21.7	20.1	18.5	17.7	16.9	16.1	15.4
-85°	21.2	19.5	17.7	16.5	15.4	14.2	13.2	13.0	12.7	12.5	12.2
-87.5°	15.7	14.1	12.6	12.0	11.4	10.8	10.1	10.1	10.0	9.9	9.9
-90°	5.3	5.8	6.3	6.3	6.3	6.3	6.3	6.8	7.4	7.9	8.4



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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°	8.4	8.4	8.4	8.4	8.9	9.5	10.0	10.5	10.0	9.5	8.9
87.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.6	8.8	8.9
85°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.8	9.1	9.4
82.5°	8.4	8.4	8.4	8.4	8.7	8.9	9.0	9.0	9.2	9.5	9.8
80°	8.4	8.4	8.4	8.5	9.0	9.5	9.8	9.9	9.8	9.9	10.1
77.5°	8.4	8.4	8.4	8.5	9.1	9.6	10.1	10.5	10.4	10.2	10.3
75°	8.5	8.4	8.4	8.6	9.1	9.6	10.1	10.5	10.5	10.5	10.4
72.5°	9.8	9.4	8.9	8.7	9.2	9.7	10.2	10.5	10.5	10.5	10.5
70°	11.6	10.7	10.1	9.7	9.6	9.8	10.3	10.5	10.5	10.5	10.5
67.5°	13.7	12.4	11.3	10.6	10.2	10.1	10.4	10.5	10.5	10.5	10.5
65°	18.2	15.1	12.5	11.5	10.8	10.4	10.5	10.5	10.5	10.5	10.5
62.5°	23.3	19.0	15.7	12.7	11.2	10.7	10.5	10.5	10.5	10.5	10.5
60°	28.6	22.9	18.8	15.5	12.5	10.8	10.5	10.5	10.5	10.5	10.5
57.5°	33.6	26.1	21.5	17.8	14.7	11.7	10.5	10.5	10.5	10.5	10.5
55°	36.5	28.8	23.7	19.6	16.3	13.4	11.0	10.5	10.5	10.5	10.5
52.5°	34.8	29.9	25.5	20.9	17.3	14.8	12.4	10.5	10.5	10.5	10.5
50°	30.5	29.4	26.2	21.7	17.9	15.5	13.7	11.4	10.5	10.5	10.6
47.5°	27.6	28.1	26.2	22.2	18.0	16.2	14.4	12.4	10.5	10.5	10.8
45°	24.3	26.7	26.0	22.7	18.6	16.8	15.0	13.2	11.2	10.6	11.0
42.5°	21.9	25.3	25.5	23.4	20.2	17.4	15.5	13.7	11.7	10.7	11.1
40°	24.9	24.8	25.6	25.0	22.2	18.0	16.0	14.1	12.2	11.0	11.2
37.5°	29.7	27.8	26.3	29.2	25.0	20.0	16.5	14.5	13.0	11.7	11.4
35°	37.6	33.6	32.7	35.3	30.6	22.2	16.9	14.9	13.9	12.2	11.5
32.5°	47.4	44.5	43.9	42.6	38.0	24.6	18.3	16.4	15.1	12.8	11.6
30°	63.1	64.8	56.9	51.5	46.6	31.5	21.3	18.2	16.4	13.4	11.8
27.5°	97.5	91.1	73.2	63.5	55.2	40.5	26.1	20.2	17.9	14.1	12.3
25°	143.1	126.0	99.0	77.1	64.7	63.2	31.6	22.6	19.6	15.3	12.7
22.5°	202.5	168.6	128.9	91.7	98.8	92.8	43.8	27.0	21.4	16.5	13.2
20°	270.3	217.6	170.1	141.7	138.7	122.8	65.5	31.7	23.3	17.8	13.5
17.5°	345.4	300.2	258.0	206.5	181.1	156.1	90.8	36.7	25.3	19.1	13.9
15°	479.3	424.3	353.6	277.0	225.4	191.9	119.0	41.7	27.4	20.5	14.5
12.5°	632.8	554.7	454.4	351.5	271.1	229.6	149.0	46.9	29.5	22.4	15.6
10°	790.5	689.2	558.5	428.6	317.6	268.5	179.9	53.5	33.8	24.8	16.6
7.5°	950.3	825.6	663.8	506.6	365.1	309.9	214.1	63.6	38.5	27.2	17.8
5°	1099.5	945.4	752.5	573.9	415.6	353.4	247.4	73.6	43.3	29.4	18.9
2.5°	1201.3	1036.4	827.0	635.3	465.1	395.5	277.9	83.3	48.1	31.6	20.0
0°	1297.2	1120.6	895.6	691.7	513.0	435.2	304.8	92.5	52.6	33.6	21.0
-2.5°	1314.8	1134.9	905.2	706.0	532.6	450.5	315.1	109.2	63.7	39.6	23.9
-5°	1325.1	1140.4	908.5	715.3	549.9	462.3	320.9	124.8	74.2	45.3	26.7
-7.5°	1273.3	1103.8	891.4	716.5	564.5	470.2	322.8	138.9	83.8	50.5	29.3
-10°	1203.9	1039.4	846.8	690.1	560.1	469.0	320.9	151.3	92.3	55.0	31.6
-12.5°	1131.0	970.4	800.7	662.2	551.7	460.4	315.0	162.3	99.6	58.8	33.6
-15°	1055.7	897.8	754.3	633.8	543.0	450.3	307.1	171.5	106.7	62.4	35.2
-17.5°	982.2	822.7	708.9	606.0	534.2	439.0	297.8	178.3	112.1	65.8	36.9
-20°	911.4	765.6	666.6	579.5	525.9	427.1	287.4	182.5	115.6	67.9	38.5



REPORT NUMBER: P701473 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-4S-CV5-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	840.2	726.4	638.7	564.7	513.9	414.9	276.6	184.1	117.1	68.6	39.6
-25°	771.3	688.2	612.8	554.7	496.1	397.0	271.2	182.9	116.5	67.9	40.1
-27.5°	722.3	653.5	587.5	543.4	475.0	380.2	268.6	181.8	114.5	65.6	40.1
-30°	682.7	625.1	571.4	527.7	453.3	355.3	262.4	177.9	111.8	64.2	39.4
-32.5°	654.3	598.4	556.7	502.6	425.4	328.7	247.0	171.0	106.9	63.2	38.4
-35°	631.2	580.3	539.8	477.6	393.8	305.5	227.1	161.0	99.8	61.4	36.8
-37.5°	606.7	566.0	512.6	447.6	360.8	279.7	207.2	145.0	90.3	58.6	34.6
-40°	590.5	545.2	486.6	410.4	329.0	251.4	184.9	129.1	84.3	54.9	31.6
-42.5°	572.0	514.7	447.5	371.6	295.4	224.4	161.1	111.9	77.3	50.6	28.0
-45°	536.5	475.4	401.5	330.1	259.9	194.9	140.9	95.0	69.2	45.6	24.7
-47.5°	493.7	422.4	353.0	285.8	224.4	165.3	119.5	84.9	60.4	39.6	22.6
-50°	433.3	366.8	302.3	242.9	185.9	140.5	99.5	73.9	51.6	31.9	20.2
-52.5°	371.3	309.0	253.0	199.7	154.7	114.5	86.0	62.1	42.3	26.8	17.3
-55°	307.8	254.4	205.0	162.1	123.9	95.6	71.4	51.0	32.5	22.9	14.5
-57.5°	248.9	201.7	163.0	126.9	100.1	78.1	57.3	39.1	26.8	18.9	14.7
-60°	191.2	156.8	123.1	101.0	81.0	61.3	43.3	29.3	22.3	15.7	14.8
-62.5°	143.2	115.7	98.2	80.3	62.4	45.3	30.5	24.4	17.8	15.5	14.8
-65°	108.1	92.3	76.1	59.9	44.1	31.6	25.4	19.5	16.4	15.1	14.5
-67.5°	83.0	68.0	53.6	39.3	31.5	25.7	20.1	17.2	15.6	14.7	14.0
-70°	55.2	42.5	35.3	29.9	24.6	20.1	17.8	15.9	14.7	14.0	13.4
-72.5°	35.8	31.4	26.8	22.5	20.4	18.2	16.1	14.5	14.0	13.4	12.8
-75°	26.2	23.9	22.1	20.3	18.3	16.3	14.7	13.7	13.2	12.7	12.1
-77.5°	22.4	20.8	19.4	17.7	15.9	14.5	13.5	12.8	12.4	12.0	11.5
-80°	18.5	17.1	15.7	14.4	13.3	12.6	12.3	11.9	11.6	11.3	10.9
-82.5°	14.3	13.4	12.6	12.0	11.8	11.5	11.3	11.1	10.8	10.5	10.3
-85°	11.8	11.4	11.1	10.8	10.7	10.5	10.5	10.5	10.4	10.2	9.9
-87.5°	9.8	9.7	9.7	9.6	9.8	10.0	10.2	10.5	10.2	9.8	9.4
-90°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4



REPORT NUMBER: P701473 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	8.4	8.9	9.5	10.0	10.5	9.4	8.4
87.5°	8.9	8.9	8.8	8.7	8.6	8.5	8.4
85°	9.5	9.3	9.1	8.9	8.8	8.6	8.4
82.5°	10.0	9.8	9.5	9.2	8.9	8.7	8.4
80°	10.5	10.2	9.9	9.5	9.1	8.8	8.4
77.5°	10.5	10.5	10.2	9.8	9.3	8.9	8.4
75°	10.5	10.5	10.5	10.0	9.5	8.9	8.4
72.5°	10.5	10.5	10.5	10.3	9.7	9.0	8.4
70°	10.5	10.5	10.5	10.5	9.8	9.1	8.4
67.5°	10.5	10.5	10.5	10.5	10.0	9.2	8.4
65°	10.5	10.5	10.5	10.5	10.2	9.3	8.4
62.5°	10.5	10.5	10.5	10.5	10.3	9.4	8.4
60°	10.5	10.5	10.5	10.5	10.5	9.4	8.4
57.5°	10.5	10.5	10.5	10.5	10.5	9.5	8.4
55°	10.5	10.5	10.5	10.5	10.5	9.6	8.4
52.5°	10.5	10.5	10.5	10.5	10.5	9.7	8.4
50°	10.5	10.5	10.5	10.5	10.5	9.7	8.4
47.5°	10.5	10.5	10.5	10.5	10.5	9.8	8.4
45°	10.7	10.5	10.5	10.5	10.5	9.9	8.4
42.5°	10.9	10.5	10.5	10.5	10.5	9.9	8.4
40°	11.1	10.5	10.5	10.5	10.5	10.0	8.4
37.5°	11.4	10.5	10.5	10.5	10.5	10.1	8.4
35°	11.7	10.6	10.5	10.5	10.5	10.1	8.4
32.5°	11.9	10.9	10.5	10.5	10.5	10.2	8.4
30°	12.0	11.1	10.5	10.5	10.5	10.2	8.4
27.5°	12.2	11.3	10.5	10.5	10.5	10.3	8.4
25°	12.3	11.6	10.5	10.5	10.5	10.3	8.4
22.5°	12.4	11.8	10.5	10.5	10.5	10.3	8.4
20°	12.6	12.0	10.5	10.5	10.5	10.4	8.4
17.5°	12.7	12.1	10.5	10.5	10.5	10.4	8.4
15°	12.9	12.2	10.5	10.5	10.5	10.4	8.4
12.5°	13.2	12.3	10.5	10.5	10.5	10.5	8.4
10°	13.5	12.4	10.5	10.5	10.5	10.5	8.4
7.5°	13.8	12.5	10.5	10.5	10.5	10.5	8.4
5°	14.1	12.6	10.5	10.5	10.5	10.5	8.4
2.5°	14.4	12.6	10.5	10.5	10.5	10.5	8.4
0°	14.7	12.6	10.5	10.5	10.5	10.5	8.4
-2.5°	16.1	12.8	10.5	10.5	10.5	10.5	8.4
-5°	17.4	13.0	10.5	10.5	10.5	10.5	8.4
-7.5°	18.6	13.2	10.5	10.5	10.5	10.5	8.4
-10°	19.7	13.3	10.5	10.5	10.5	10.5	8.4
-12.5°	20.6	13.4	10.5	10.5	10.5	10.5	8.4
-15°	21.2	13.4	10.5	10.5	10.5	10.4	8.4
-17.5°	21.6	13.3	10.5	10.5	10.5	10.4	8.4
-20°	21.9	13.2	10.5	10.5	10.5	10.4	8.4



REPORT NUMBER: P701473 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-4S-CV5-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	22.4	13.0	10.5	10.5	10.5	10.4	8.4
-25°	22.5	13.0	10.5	10.5	10.5	10.3	8.4
-27.5°	22.2	13.0	10.5	10.5	10.5	10.3	8.4
-30°	21.4	12.9	10.5	10.5	10.5	10.3	8.4
-32.5°	20.1	12.5	10.7	10.5	10.5	10.3	8.4
-35°	19.3	12.0	10.8	10.5	10.5	10.2	8.4
-37.5°	18.7	11.6	11.0	10.5	10.5	10.2	8.4
-40°	17.8	11.8	11.1	10.5	10.5	10.2	8.4
-42.5°	16.6	12.0	11.2	10.5	10.5	10.1	8.4
-45°	15.1	12.1	11.3	10.6	10.5	10.1	8.4
-47.5°	13.4	12.3	11.4	10.6	10.5	10.1	8.4
-50°	13.3	12.4	11.4	10.6	10.5	10.0	8.4
-52.5°	13.4	12.6	11.4	10.7	10.5	10.0	8.4
-55°	13.6	12.6	11.4	10.7	10.5	10.0	8.4
-57.5°	13.7	12.5	11.3	10.7	10.5	9.9	8.4
-60°	13.8	12.3	11.3	10.7	10.5	9.9	8.4
-62.5°	13.6	12.2	11.2	10.6	10.5	9.9	8.4
-65°	13.2	12.0	11.1	10.6	10.5	9.8	8.4
-67.5°	12.9	11.7	11.0	10.6	10.5	9.8	8.4
-70°	12.5	11.5	10.8	10.5	10.5	9.8	8.4
-72.5°	12.0	11.2	10.7	10.5	10.5	9.7	8.4
-75°	11.6	10.9	10.5	10.4	10.5	9.7	8.4
-77.5°	11.1	10.6	10.4	10.3	10.5	9.7	8.4
-80°	10.6	10.3	10.2	10.3	10.5	9.6	8.4
-82.5°	10.0	10.0	10.0	10.2	10.5	9.6	8.4
-85°	9.5	9.6	9.8	10.1	10.5	9.5	8.4
-87.5°	8.9	9.3	9.6	10.0	10.5	9.5	8.4
-90°	8.4	8.4	8.4	8.4	8.4	8.4	8.4

(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

