

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: P701322 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-40-70-2S-VHE-S**

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701322 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-2)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320L-40-70-2S-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 2S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

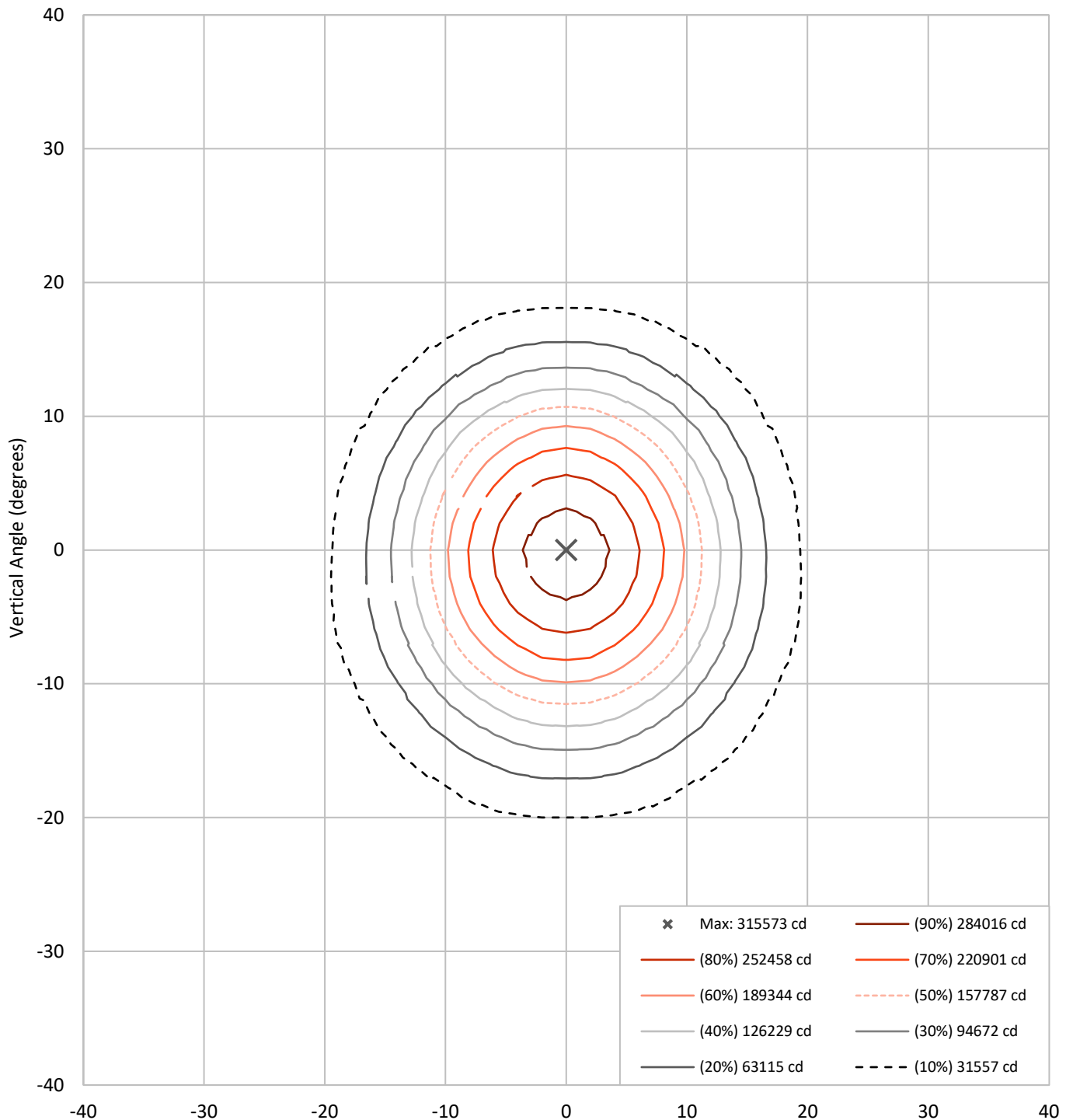
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	55157.5 lumens	Max Intensity:	315573 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	159.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	22.5°H x 22.2°V	Field Angle (10%):	38.8°H x 38.1°V
Beam Lumens:	25774.2 lumens	Field Lumens:	45916.1 lumens
Beam Efficiency:	46.7%	Field Efficiency:	83.2%

Input Watts (W): 346.9
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

REPORT NUMBER: P701322 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: EPH-LS-08-0320L-40-70-2S-VHE-S

Iso-Candela Plot





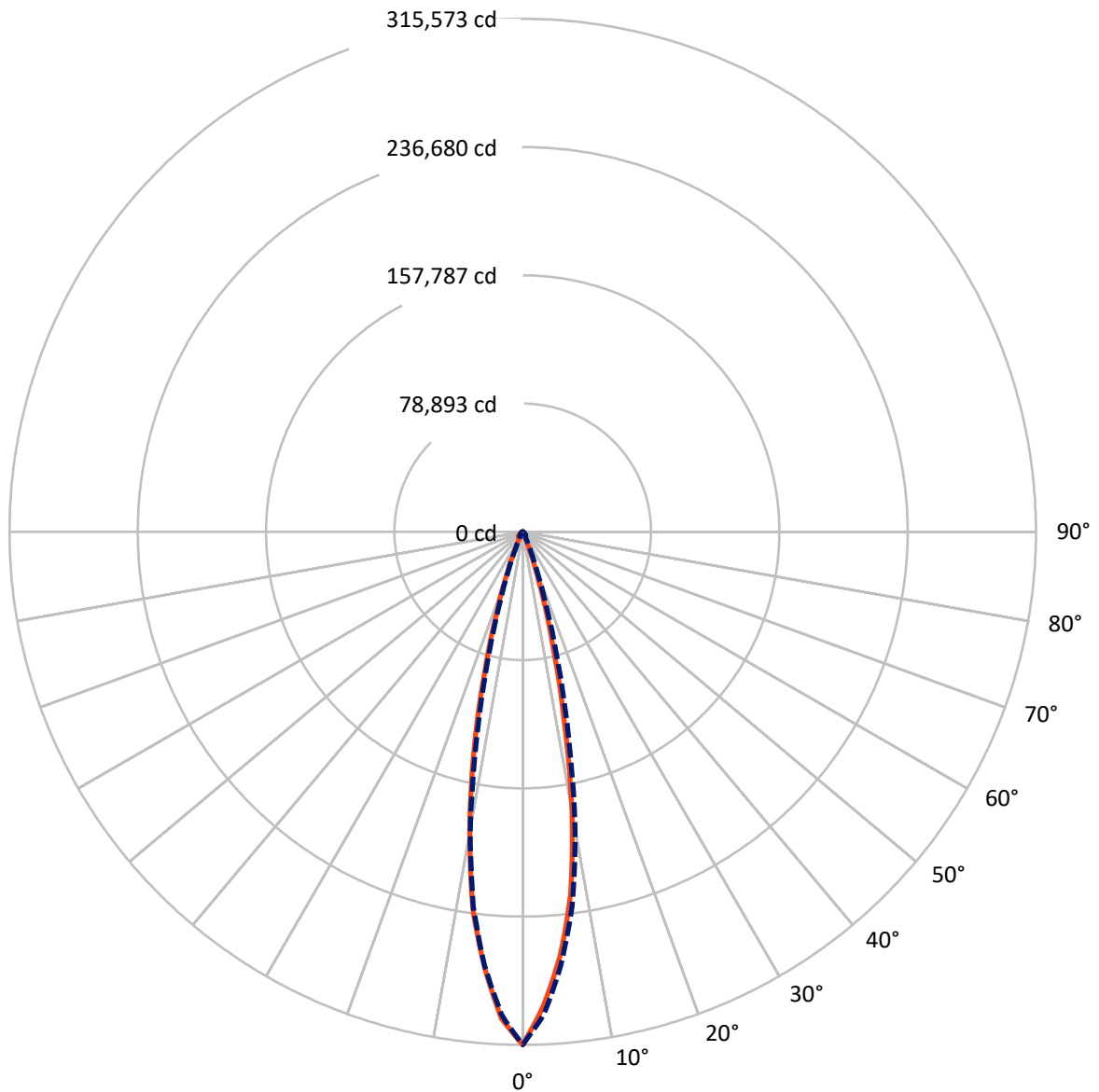
REPORT NUMBER: P701322 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-2S-VHE-S

Lumen Table

90	0.1		0.4		0.8		1.2		1.4		1.2		0.8		0.4		0.1		
80	0.1		0.4		0.8		1.2		1.4		1.2		0.8		0.4		0.1		
70	0.1	0.1	0.1	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.1	0.1	0.1			
60		0.2	0.5	0.6	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.6	0.5	0.2				
50	0.4	0.7	1.6	3.3	5.8	9.5	14.6	17.2	17.2	14.6	9.5	5.8	3.3	1.6	0.7	0.4			
40		1.7	5.4	10.5	20.5	35.8	43.5	48.2	48.2	43.5	35.8	20.5	10.5	5.4	1.7				
30	1.1	2.9	9.0	19.2	46.9	54.5	75.2	137.4	137.4	75.2	54.5	46.9	19.2	9.0	2.9	1.1			
20		3.9	11.7	33.6	66.1	97.1	615.9	1986.5	1986.5	615.9	97.1	66.1	33.6	11.7	3.9				
10	1.6	4.8	13.5	43.9	75.7	217.1	2181.9	6559.1	6559.1	2181.9	217.1	75.7	43.9	13.5	4.8	1.6			
0		5.2	14.9	46.3	83.3	248.9	2376.2	6821.2	6821.2	2376.2	248.9	83.3	46.3	14.9	5.2				
-10	1.7	5.3	15.6	44.7	87.6	142.5	870.9	2551.2	2551.2	870.9	142.5	87.6	44.7	15.6	5.3	1.7			
-20		4.9	15.3	34.1	82.6	113.3	157.4	314.8	314.8	157.4	113.3	82.6	34.1	15.3	4.9				
-30	1.4	4.1	13.4	26.7	57.8	101.7	119.2	125.0	125.0	119.2	101.7	57.8	26.7	13.4	4.1	1.4			
-40		3.1	10.1	21.6	34.5	53.0	80.6	101.1	101.1	80.6	53.0	34.5	21.6	10.1	3.1				
-50	1.1	2.1	6.4	14.2	24.1	32.7	39.0	43.0	43.0	39.0	32.7	24.1	14.2	6.4	2.1	1.1			
-60		1.4	3.2	7.1	12.3	17.3	21.8	24.5	24.5	21.8	17.3	12.3	7.1	3.2	1.4				
-70	0.8	5.0		12.2		20.5		25.0		20.5		12.2		5.0		0.8			
-80		5.0		12.2		20.5		25.0		20.5		12.2		5.0					
-90	0.8		5.0		12.2		20.5		25.0		20.5		5.0		0.8				
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

REPORT NUMBER: P701322 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: EPH-LS-08-0320L-40-70-2S-VHE-S

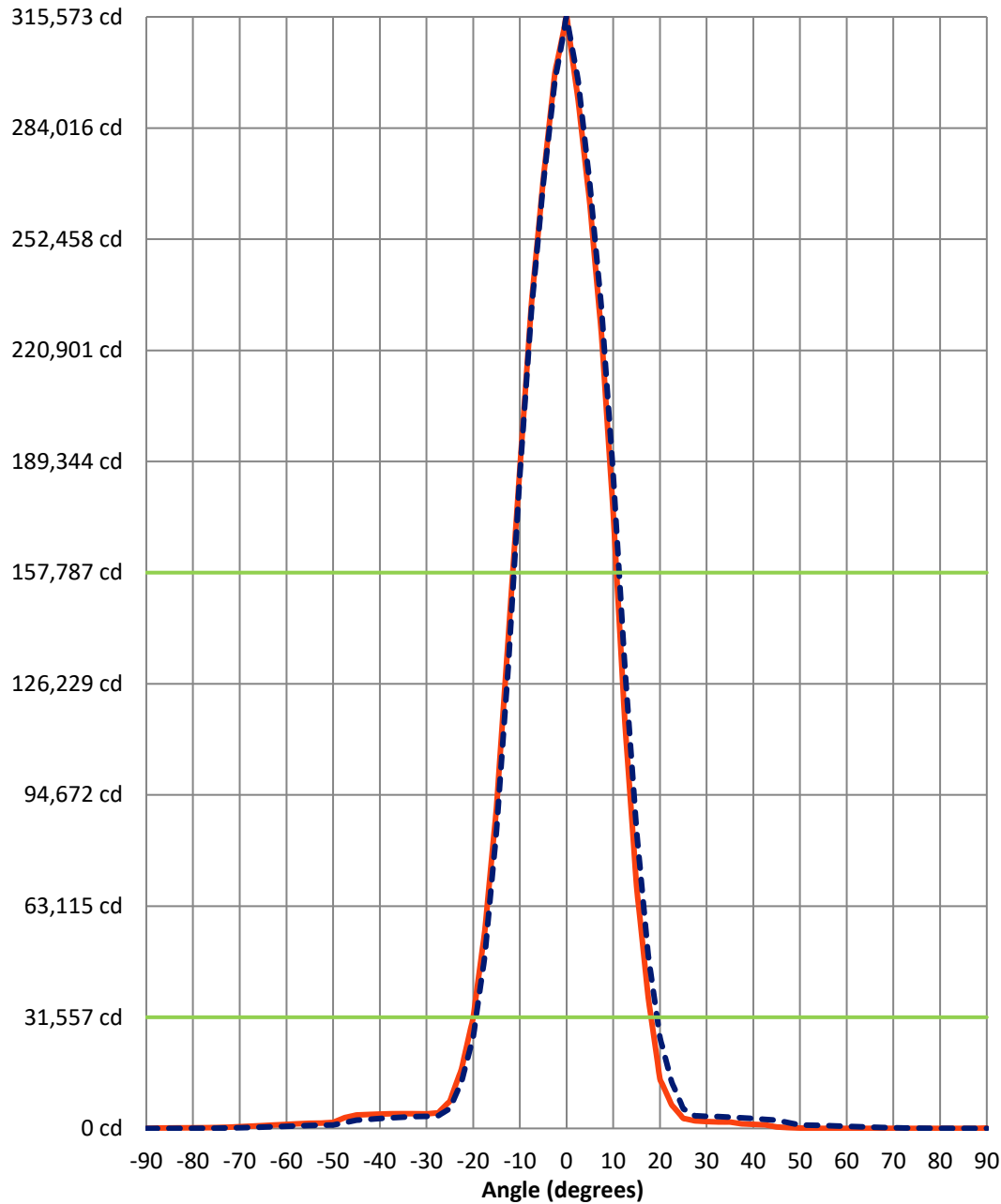
Luminous Intensity Polar Plot



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

REPORT NUMBER: P701322 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-2S-VHE-S

Luminous Intensity Plot



Beam:
 H Angle: 22.5°
 V Angle: 22.2°
 Lumens: 25774.2
 Efficiency: 46.7%

Field:
 H Angle: 38.8°
 V Angle: 38.1°
 Lumens: 45916.1
 Efficiency: 83.2%

Spill:
 Lumens: 9241.3
 Efficiency: 16.8%

— Vertical Distribution through 0-Deg
 - - Horizontal Distribution through 0-Deg



REPORT NUMBER: P701322 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-2S-VHE-S

FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	3.2	6.7	10.3	17.7	25.1	31.5	38.0	42.9	47.7	51.6	55.4
87.5°	3.2	3.3	3.3	3.3	3.3	3.4	3.4	3.3	3.2	3.2	3.2
85°	3.2	3.4	3.4	3.5	3.4	3.5	3.6	3.4	3.2	3.2	3.2
82.5°	3.2	3.5	3.5	3.6	3.6	3.7	3.7	3.5	3.3	3.3	3.4
80°	3.2	3.5	3.7	3.7	3.7	3.8	3.9	3.8	3.7	3.7	3.7
77.5°	3.2	3.6	3.8	3.9	3.8	4.0	4.1	4.0	4.1	4.2	4.0
75°	3.2	3.7	3.9	4.0	4.0	4.2	4.3	4.3	4.5	4.5	4.3
72.5°	3.2	3.8	4.0	4.1	4.2	4.4	4.4	4.6	4.8	4.7	4.6
70°	3.2	3.9	4.1	4.3	4.4	4.6	4.7	4.9	5.1	5.0	5.0
67.5°	3.2	4.0	4.3	4.5	4.7	4.9	5.0	5.2	5.4	5.5	5.4
65°	3.2	4.0	4.4	4.6	4.9	5.2	5.4	5.6	6.0	5.9	5.9
62.5°	3.2	4.1	4.5	4.8	5.1	5.6	5.8	6.3	6.7	6.6	6.9
60°	3.2	4.2	4.7	5.0	5.3	5.9	6.3	7.2	7.6	8.0	8.1
57.5°	3.2	4.3	4.9	5.1	5.8	6.3	7.3	8.2	9.1	9.6	10.8
55°	3.2	4.4	5.0	5.3	6.2	6.7	8.5	9.4	11.0	12.0	14.5
52.5°	3.2	4.5	5.2	5.5	6.7	7.3	9.8	11.4	13.1	16.4	18.5
50°	3.2	4.6	5.5	5.6	7.2	8.7	11.1	13.6	16.1	21.3	26.5
47.5°	3.2	4.6	5.7	5.8	7.8	10.1	12.7	15.9	21.0	26.6	36.0
45°	3.2	4.7	6.0	6.3	8.3	11.5	14.7	18.2	26.5	36.2	46.4
42.5°	3.2	4.8	6.2	6.7	8.9	13.0	16.8	22.2	32.3	46.4	63.0
40°	3.2	4.9	6.5	7.4	9.9	14.6	19.0	27.5	39.8	57.4	82.0
37.5°	3.2	4.9	6.8	8.1	11.1	16.2	21.5	33.0	50.4	71.5	102.2
35°	3.2	5.0	7.1	8.9	12.3	18.0	23.9	38.7	61.6	90.4	124.9
32.5°	3.2	5.1	7.4	9.7	13.5	20.0	27.1	44.6	73.3	109.7	149.0
30°	3.2	5.2	7.7	10.6	14.7	21.9	31.9	51.3	85.4	129.1	171.9
27.5°	3.2	5.2	8.1	11.4	16.3	23.9	36.6	60.3	97.8	148.7	193.6
25°	3.2	5.3	8.4	12.3	17.9	25.8	41.3	68.7	110.9	167.2	214.3
22.5°	3.2	5.4	8.8	13.2	19.4	27.8	45.8	76.7	122.9	179.8	236.7
20°	3.2	5.4	9.1	14.1	20.8	29.9	50.2	84.1	133.9	191.5	254.1
17.5°	3.2	5.5	9.4	15.0	22.2	31.9	54.3	91.0	143.8	202.2	270.5
15°	3.2	5.5	9.8	15.8	23.6	33.8	57.9	97.1	152.7	211.9	286.4
12.5°	3.2	5.6	10.1	16.7	24.9	35.6	61.2	102.3	161.1	220.6	301.3
10°	3.2	5.6	10.4	17.5	26.1	37.4	64.2	106.8	169.1	231.4	316.8
7.5°	3.2	5.7	10.8	18.4	27.2	39.0	66.8	110.8	176.2	241.9	334.3
5°	3.2	5.7	11.1	19.1	28.3	40.5	69.2	114.2	182.5	251.4	350.5
2.5°	3.2	5.8	11.3	19.9	29.4	41.9	71.2	117.0	187.7	260.0	364.9
0°	3.2	5.8	11.6	20.6	30.3	43.2	72.8	119.1	191.9	267.3	377.4
-2.5°	3.2	6.1	12.2	21.5	31.6	45.0	75.1	123.5	197.8	275.0	384.0
-5°	3.2	6.3	12.8	22.4	32.9	46.6	77.1	127.1	202.4	281.3	388.4
-7.5°	3.2	6.5	13.4	23.2	34.0	48.2	78.7	129.9	205.7	286.0	390.8
-10°	3.2	6.8	13.9	23.9	35.1	49.5	79.9	131.9	207.8	289.2	391.2
-12.5°	3.2	7.0	14.4	24.6	36.1	50.7	80.7	132.9	208.4	290.5	390.7
-15°	3.2	7.2	14.8	25.2	36.9	51.8	81.1	132.9	206.9	288.2	388.0
-17.5°	3.2	7.4	15.3	25.8	37.7	52.7	81.1	131.6	203.1	284.1	382.2
-20°	3.2	7.6	15.7	26.3	38.4	53.4	80.8	129.1	198.0	278.3	373.3



REPORT NUMBER: P701322 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	3.2	7.8	16.0	26.7	38.9	53.9	80.1	125.7	191.6	270.8	361.4
-25°	3.2	7.9	16.3	27.1	39.4	54.4	79.0	121.5	183.9	261.5	349.7
-27.5°	3.2	8.1	16.6	27.4	39.7	54.8	77.5	116.4	175.0	253.9	341.5
-30°	3.2	8.2	16.8	27.7	39.9	54.9	75.4	110.5	167.8	245.3	331.2
-32.5°	3.2	8.3	17.0	27.8	40.3	54.9	72.9	106.8	161.8	234.9	318.8
-35°	3.2	8.4	17.1	28.0	40.5	54.7	71.8	103.6	154.3	222.6	304.1
-37.5°	3.2	8.5	17.2	28.0	40.5	54.6	71.4	100.0	145.3	208.4	288.1
-40°	3.2	8.6	17.2	28.0	40.5	54.5	70.8	95.5	134.8	195.6	270.2
-42.5°	3.2	8.6	17.2	28.0	40.5	54.4	69.9	90.2	126.9	181.9	249.8
-45°	3.2	8.7	17.2	27.9	40.5	54.1	68.8	86.1	119.7	166.3	227.9
-47.5°	3.2	8.7	17.1	27.8	40.3	53.7	67.5	84.5	111.5	149.2	208.2
-50°	3.2	8.7	16.9	27.7	40.1	53.1	66.6	82.5	102.3	138.5	186.5
-52.5°	3.2	8.7	16.7	27.5	39.7	52.4	65.6	80.3	97.4	126.7	163.3
-55°	3.2	8.7	16.5	27.2	39.3	51.7	64.5	77.8	94.4	114.0	147.8
-57.5°	3.2	8.6	16.2	26.8	38.7	50.8	63.2	76.3	90.9	107.8	131.5
-60°	3.2	8.5	15.8	26.4	38.0	49.8	61.8	74.5	87.5	103.4	118.1
-62.5°	3.2	8.5	15.6	25.9	37.3	48.7	60.3	72.4	84.9	98.3	112.0
-65°	3.2	8.4	15.3	25.3	36.4	47.4	58.5	70.2	82.1	94.2	105.6
-67.5°	3.2	8.3	14.9	24.7	35.5	46.0	56.6	67.8	79.0	90.1	100.3
-70°	3.2	8.1	14.5	23.9	34.4	44.5	54.6	65.2	76.0	85.8	95.3
-72.5°	3.2	8.0	14.1	23.3	33.3	42.8	52.5	62.5	72.8	81.8	90.2
-75°	3.2	7.9	13.7	22.7	32.1	41.1	50.3	59.7	69.4	77.6	85.3
-77.5°	3.2	7.7	13.2	22.0	31.0	39.3	47.9	56.7	65.7	73.1	80.3
-80°	3.2	7.5	12.6	21.2	30.0	37.7	45.5	53.6	61.9	68.4	74.8
-82.5°	3.2	7.4	12.1	20.4	28.8	36.3	43.6	50.6	57.9	63.5	69.2
-85°	3.2	7.2	11.5	19.5	27.7	34.8	41.8	48.1	54.6	59.3	64.0
-87.5°	3.2	7.0	10.9	18.6	26.4	33.2	40.0	45.5	51.2	55.5	59.7
-90°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2



REPORT NUMBER: P701322 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	58.3	61.2	63.8	66.3	69.2	72.1	75.4	78.6	81.8	85.0	87.6
87.5°	3.0	2.9	2.9	2.9	2.8	2.6	2.6	2.6	2.3	1.9	1.9
85°	3.2	3.2	3.2	3.2	3.0	2.8	2.7	2.6	2.4	2.3	2.3
82.5°	3.5	3.5	3.4	3.2	3.2	3.2	2.9	2.7	2.7	2.8	2.7
80°	3.8	3.9	3.6	3.4	3.4	3.2	3.1	3.1	3.2	3.2	3.0
77.5°	4.0	3.9	3.8	3.8	3.6	3.4	3.5	3.6	3.5	3.3	3.2
75°	4.2	4.0	4.0	3.9	3.8	3.8	3.9	3.9	3.8	3.7	3.6
72.5°	4.5	4.3	4.2	4.0	4.0	4.0	3.9	3.9	4.5	5.4	6.1
70°	4.8	4.7	4.6	4.4	4.3	4.3	5.1	6.5	8.1	9.4	11.1
67.5°	5.2	5.1	5.0	4.9	5.2	6.0	7.2	11.4	15.7	17.3	18.0
65°	5.8	5.7	5.7	6.0	6.4	9.6	13.9	18.9	24.3	25.3	24.2
62.5°	6.4	7.2	7.0	8.1	11.0	15.0	20.4	26.1	32.2	30.8	25.7
60°	8.9	9.3	10.3	12.8	16.2	20.7	26.7	29.1	31.6	32.1	24.9
57.5°	12.0	13.3	15.7	18.3	22.8	25.3	26.2	26.3	29.9	30.1	22.9
55°	16.7	18.9	22.6	25.7	28.5	25.8	25.8	28.1	29.4	27.2	20.3
52.5°	24.0	26.4	32.1	34.4	32.9	30.6	30.0	32.1	30.9	27.6	23.5
50°	32.1	39.0	42.8	44.6	41.0	40.6	37.3	39.2	40.4	38.6	40.4
47.5°	45.2	53.5	56.6	59.4	56.5	59.6	56.5	65.7	65.9	88.6	91.3
45°	61.1	72.4	76.0	82.5	87.6	90.4	108.4	109.6	157.8	176.6	217.3
42.5°	79.7	94.4	107.3	110.5	140.9	155.3	180.7	227.2	271.7	309.9	331.6
40°	103.6	119.3	146.1	176.1	210.6	244.5	282.3	336.9	383.9	404.5	415.4
37.5°	129.8	160.0	195.6	245.8	297.0	336.0	381.0	432.3	463.5	474.5	477.0
35°	157.9	201.4	261.1	313.8	368.7	421.1	463.1	512.1	522.6	531.3	579.6
32.5°	192.1	242.8	313.3	372.3	427.9	488.0	530.4	559.4	576.1	608.0	765.5
30°	226.4	285.9	355.6	418.4	483.2	540.3	580.7	608.9	628.0	778.5	1105.4
27.5°	254.6	323.0	392.2	465.1	536.8	594.0	632.9	658.5	769.7	1019.2	1522.6
25°	280.2	352.0	428.9	516.8	592.2	645.2	685.0	710.4	959.0	1468.6	1817.7
22.5°	304.2	380.2	470.3	571.4	647.3	692.3	730.6	868.3	1244.8	1923.9	2111.6
20°	327.6	414.0	515.2	617.6	699.0	732.3	772.5	1045.3	1612.4	2099.1	2304.8
17.5°	351.9	448.7	557.7	653.1	725.9	768.0	832.4	1217.0	1922.8	2252.6	2401.4
15°	376.2	481.4	592.2	684.4	752.4	802.9	969.3	1463.0	2115.0	2421.2	2561.3
12.5°	400.0	510.1	618.2	711.3	780.2	836.0	1094.5	1717.3	2288.7	2586.7	2772.2
10°	423.0	534.9	640.4	737.2	807.4	868.1	1221.0	1965.9	2445.6	2694.7	2850.2
7.5°	443.0	555.1	659.6	762.1	832.8	899.6	1359.7	2130.8	2512.4	2763.3	2889.7
5°	460.1	571.0	679.0	789.8	859.1	928.7	1485.7	2239.5	2537.8	2805.6	2931.0
2.5°	474.5	583.9	695.8	815.7	885.1	953.3	1574.0	2308.5	2555.0	2821.9	2971.6
0°	486.3	593.8	709.7	838.5	908.8	975.1	1639.7	2341.8	2560.7	2815.8	3009.6
-2.5°	493.9	608.4	735.4	860.5	928.2	993.4	1637.0	2361.3	2567.7	2848.3	3156.8
-5°	499.0	619.7	757.0	879.1	945.7	1009.5	1609.0	2347.0	2583.3	2897.8	3253.0
-7.5°	501.6	627.3	773.6	894.1	962.3	1027.5	1574.4	2314.0	2662.7	2999.4	3313.4
-10°	502.4	631.8	777.0	901.3	977.6	1045.2	1517.4	2244.6	2725.3	3042.0	3330.9
-12.5°	505.8	634.0	775.2	904.2	990.7	1061.4	1446.9	2198.7	2809.6	3068.2	3324.5
-15°	505.5	633.2	770.1	903.4	1006.7	1083.1	1353.2	2090.2	2860.9	3074.1	3307.4
-17.5°	501.2	629.5	762.1	900.3	1021.9	1099.3	1221.1	1867.0	2714.2	3048.1	3287.2
-20°	492.8	621.7	751.0	890.6	1030.4	1114.3	1205.3	1671.7	2412.2	2979.2	3249.1



REPORT NUMBER: P701322 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	480.7	610.1	737.4	874.3	1026.4	1131.3	1216.3	1481.6	2113.9	2877.0	3187.3
-25°	466.6	594.0	721.7	865.4	1020.4	1147.6	1218.6	1305.0	1854.4	2538.7	3080.8
-27.5°	451.0	574.0	704.3	846.6	1011.2	1144.7	1217.7	1299.2	1578.1	2122.6	2911.3
-30°	432.9	551.6	680.4	819.4	978.6	1113.9	1214.8	1282.3	1367.5	1796.3	2468.9
-32.5°	412.8	526.3	651.9	788.6	936.7	1079.5	1198.0	1268.6	1343.4	1490.3	2032.4
-35°	393.2	501.8	620.5	753.1	893.9	1032.8	1154.0	1254.3	1317.1	1399.7	1647.1
-37.5°	375.0	474.3	586.1	714.3	850.5	974.8	1105.9	1214.6	1300.5	1360.4	1460.5
-40°	353.9	443.7	550.8	670.8	793.2	911.5	1036.2	1158.5	1264.0	1342.8	1402.6
-42.5°	330.2	416.0	512.9	619.5	732.6	845.2	963.1	1084.3	1200.1	1304.0	1378.0
-45°	304.5	385.1	472.3	569.1	669.4	776.8	889.0	1003.7	1118.7	1233.3	1324.5
-47.5°	274.7	351.1	433.8	515.2	607.8	706.3	810.7	918.5	1024.9	1135.5	1240.4
-50°	243.8	314.4	389.9	465.0	545.3	634.5	730.0	830.7	931.6	1033.7	1134.9
-52.5°	215.8	274.4	344.0	414.8	485.8	562.0	648.5	740.3	835.4	931.8	1020.3
-55°	185.8	238.6	295.7	362.1	428.7	494.9	565.2	648.3	734.5	823.9	903.3
-57.5°	162.8	202.5	251.8	306.6	368.6	431.3	493.0	555.4	632.4	711.9	778.6
-60°	143.7	172.3	210.1	256.4	305.7	363.7	421.7	479.6	539.2	596.1	657.8
-62.5°	126.1	149.5	176.1	208.4	251.2	296.0	347.5	400.9	455.4	504.5	549.8
-65°	118.6	129.8	149.7	173.9	198.4	236.7	277.9	320.0	367.4	410.8	451.6
-67.5°	110.6	121.0	131.3	144.1	166.1	188.7	211.4	248.6	285.7	319.3	352.7
-70°	104.2	112.2	121.3	130.6	140.2	153.2	173.5	194.5	215.4	238.7	266.8
-72.5°	97.9	105.1	112.4	119.6	128.1	137.1	146.4	155.9	170.5	188.3	204.4
-75°	91.9	97.9	104.4	111.1	117.8	124.6	132.2	140.9	149.6	158.3	166.4
-77.5°	86.1	91.6	97.0	102.6	108.5	114.5	121.1	128.0	135.2	142.3	148.6
-80°	80.0	85.1	89.8	94.6	99.8	105.1	110.6	116.3	122.5	129.1	134.8
-82.5°	73.4	77.7	82.0	86.2	91.0	95.8	100.5	105.3	110.4	115.7	120.4
-85°	67.1	70.1	73.8	77.5	81.8	86.1	90.1	94.1	98.6	103.1	106.8
-87.5°	62.7	65.7	68.6	71.5	74.9	78.3	81.6	84.9	88.7	92.4	95.2
-90°	2.9	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.3	1.9	1.9



REPORT NUMBER: P701322 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	90.2	92.1	94.0	95.0	96.0	97.9	99.8	102.7	105.6	108.9	112.1
87.5°	1.9	1.9	1.9	1.9	1.8	1.6	1.3	1.3	1.3	1.3	1.3
85°	2.3	2.4	2.4	2.2	1.9	1.9	1.8	1.8	1.9	1.6	1.3
82.5°	2.6	2.6	2.6	2.5	2.4	2.2	1.9	1.9	1.9	1.9	1.9
80°	2.8	2.7	2.6	2.6	2.6	2.5	2.4	2.2	1.9	2.2	2.5
77.5°	3.2	3.0	2.8	2.8	2.6	2.4	2.2	2.0	1.9	1.9	2.0
75°	3.3	3.4	3.8	3.9	3.8	3.5	2.9	2.8	2.9	2.8	2.6
72.5°	6.5	6.9	7.1	7.7	8.1	8.4	9.1	10.4	11.8	13.2	14.5
70°	13.2	15.0	15.5	15.5	15.5	15.9	16.6	17.3	18.4	19.2	19.9
67.5°	20.3	21.9	22.1	22.5	21.9	21.0	20.1	20.1	21.2	22.6	24.1
65°	24.7	23.1	21.9	21.7	21.3	20.2	18.5	17.3	16.9	16.7	16.8
62.5°	22.2	19.0	17.9	17.7	16.6	15.4	13.1	11.3	10.3	9.8	9.9
60°	19.3	15.5	13.2	12.1	10.6	9.0	7.6	6.2	5.8	5.6	5.7
57.5°	15.9	11.8	9.1	8.7	7.5	6.0	4.9	3.9	3.7	3.7	3.9
55°	14.6	12.4	10.4	9.7	8.3	7.6	6.6	5.2	4.9	5.2	5.7
52.5°	18.9	17.7	16.7	16.8	18.5	17.2	12.8	17.9	20.9	20.9	19.9
50°	41.4	37.2	53.1	51.1	63.8	72.3	65.7	73.7	85.3	93.4	99.1
47.5°	118.0	122.4	141.4	157.9	171.1	186.0	201.1	210.2	212.5	227.6	237.9
45°	237.7	252.0	273.1	283.8	304.7	329.4	346.8	354.5	400.1	456.7	493.3
42.5°	345.0	356.0	372.6	410.3	448.6	533.3	630.4	633.8	721.6	799.3	878.8
40°	420.0	440.8	499.9	589.4	796.0	957.2	1071.9	1184.3	1203.0	1166.5	1186.5
37.5°	517.2	591.2	741.1	982.5	1161.3	1323.2	1388.3	1396.8	1419.5	1433.7	1411.1
35°	700.2	946.8	1071.2	1276.4	1406.4	1438.0	1457.7	1477.2	1495.7	1508.5	1522.3
32.5°	1101.2	1406.6	1423.0	1475.8	1500.1	1528.1	1549.0	1561.2	1569.6	1580.7	1618.5
30°	1532.2	1603.3	1609.2	1605.0	1613.3	1632.3	1645.9	1668.2	1690.3	1715.8	1799.4
27.5°	1733.4	1787.9	1770.9	1741.8	1727.4	1742.5	1779.7	1814.3	1878.8	1946.6	2066.6
25°	1956.2	1992.3	1971.6	1920.0	1887.6	1909.0	1964.8	2030.9	2154.1	2262.7	2483.5
22.5°	2194.7	2261.8	2240.2	2224.8	2156.7	2166.9	2211.0	2359.9	2668.2	3156.3	4169.7
20°	2379.7	2461.8	2472.2	2472.6	2458.2	2462.4	2564.8	3045.4	3946.7	6778.9	9289.6
17.5°	2516.9	2565.0	2622.8	2646.5	2674.6	2756.5	3302.9	4965.3	8857.5	14066.8	18055.8
15°	2694.7	2756.3	2818.9	2858.5	2921.9	3372.7	4769.9	9875.3	16953.2	25794.6	37095.6
12.5°	2837.0	2912.9	2962.6	2994.0	3140.3	4326.0	9187.4	16537.1	27580.4	41300.1	61652.7
10°	2915.8	2974.9	3042.7	3151.5	3748.2	6274.9	12956.2	23238.8	40214.8	64927.4	92035.1
7.5°	2955.0	3031.6	3144.9	3310.2	4436.3	9160.3	18024.4	32801.7	55988.4	86760.5	124531.1
5°	3000.7	3142.2	3277.1	3466.3	4970.7	11243.6	22053.2	40957.7	69741.2	107384.9	154031.7
2.5°	3074.4	3287.3	3374.2	3555.9	5292.7	12584.8	24455.7	47336.9	80010.8	124215.1	176587.3
0°	3190.6	3367.7	3419.9	3602.8	5616.7	13248.1	25866.9	49086.1	84585.3	130769.3	185470.9
-2.5°	3321.9	3432.6	3490.4	3694.2	5779.4	13924.8	26977.2	50261.4	83495.9	128586.0	182133.4
-5°	3407.6	3495.5	3551.5	3750.8	5761.6	13248.1	25736.6	46805.7	77126.5	117455.8	165331.1
-7.5°	3466.0	3557.4	3616.0	3798.7	5421.0	11449.0	22731.8	40345.9	65544.2	98619.5	139971.6
-10°	3522.9	3622.8	3699.6	3843.9	4798.0	8740.1	17842.0	30438.1	51259.7	77576.2	108493.9
-12.5°	3574.3	3697.7	3796.6	3863.0	4212.8	6647.8	13111.7	23281.8	36896.3	56541.1	79165.8
-15°	3600.3	3747.9	3858.5	3931.8	4134.6	5256.5	8490.5	15406.0	25759.4	37944.7	52666.7
-17.5°	3555.5	3775.6	3882.1	3962.8	4029.5	4317.8	5989.1	9456.8	15923.4	23905.7	31097.3
-20°	3484.3	3778.7	3899.3	4007.8	4083.7	4162.2	4375.1	6022.4	8653.1	13550.3	18343.4



REPORT NUMBER: P701322 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3424.0	3697.8	3949.5	4066.8	4154.1	4159.8	4166.4	4364.7	5391.8	7041.8	9577.3
-25°	3382.2	3641.3	3934.2	4115.9	4176.3	4178.5	4145.5	4108.7	4225.1	4342.2	5268.7
-27.5°	3311.6	3592.6	3867.9	4089.4	4179.0	4175.9	4150.9	4126.3	4086.0	4059.6	4159.6
-30°	3225.1	3507.5	3763.8	3986.6	4119.3	4160.1	4143.1	4124.8	4112.3	4103.6	4085.6
-32.5°	2764.5	3403.0	3618.9	3821.1	4010.5	4093.5	4130.4	4121.8	4110.6	4105.8	4109.0
-35°	2258.1	2917.3	3477.9	3622.0	3786.4	3951.5	4068.0	4094.4	4106.1	4104.0	4109.1
-37.5°	1731.4	2325.3	2876.2	3336.6	3534.5	3706.2	3875.5	3987.7	4055.0	4066.6	4082.5
-40°	1492.2	1660.2	2182.0	2644.8	3029.8	3384.2	3563.5	3757.4	3908.7	3969.5	4001.5
-42.5°	1429.0	1495.7	1564.2	1903.6	2302.2	2640.2	2974.9	3307.6	3583.8	3740.1	3841.7
-45°	1401.4	1438.6	1478.2	1532.9	1581.8	1867.2	2174.5	2498.7	2861.7	3132.8	3385.4
-47.5°	1321.2	1396.1	1433.9	1457.1	1474.3	1512.0	1545.6	1637.0	1939.1	2176.6	2440.1
-50°	1215.0	1291.2	1353.0	1407.9	1426.7	1435.4	1445.4	1475.9	1524.1	1559.2	1612.2
-52.5°	1092.2	1163.7	1232.5	1291.3	1333.3	1369.5	1404.0	1427.9	1447.5	1467.8	1487.0
-55°	974.8	1035.6	1094.6	1149.8	1200.0	1241.7	1282.7	1321.8	1358.4	1392.9	1425.1
-57.5°	846.0	906.8	961.0	1010.5	1053.2	1088.0	1128.6	1171.6	1212.0	1247.8	1282.7
-60°	716.0	771.3	823.2	870.0	909.1	939.8	979.2	1017.9	1054.7	1088.1	1117.4
-62.5°	593.8	641.0	685.7	727.0	764.0	797.0	830.1	863.2	898.0	929.3	956.7
-65°	490.5	528.2	559.9	589.4	614.3	644.1	675.9	705.5	736.2	765.1	791.4
-67.5°	386.7	418.6	445.3	470.8	491.6	512.5	536.2	558.7	580.4	602.9	624.8
-70°	291.8	314.3	331.1	348.6	369.0	388.2	407.2	426.4	444.4	464.2	484.5
-72.5°	217.8	228.7	239.7	253.9	266.1	280.0	293.7	308.4	323.3	337.7	351.1
-75°	174.3	181.3	189.7	196.5	201.8	208.6	216.2	225.4	234.7	244.0	252.8
-77.5°	155.0	159.8	163.7	166.6	169.2	172.7	176.2	182.7	189.6	197.4	205.2
-80°	140.2	143.3	145.9	148.1	150.0	152.9	155.8	161.4	167.4	173.2	178.8
-82.5°	125.1	127.6	129.8	131.7	133.5	136.2	138.9	143.5	148.0	153.7	159.3
-85°	110.4	112.6	114.7	116.5	118.2	120.3	122.4	126.6	130.8	135.3	139.8
-87.5°	98.0	99.9	101.8	103.2	104.7	106.5	108.2	111.6	115.0	118.6	122.2
-90°	1.9	1.9	1.9	1.6	1.3	1.3	1.3	1.3	1.3	1.0	0.6



REPORT NUMBER: P701322 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	112.4	112.7	112.7	112.7	112.7	112.7	112.4	112.1	108.9	105.6	102.7
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.6	1.9	1.8
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
80°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.2	1.9	2.2
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	2.0
75°	2.3	1.9	1.9	1.9	1.9	1.9	2.3	2.6	2.8	2.9	2.8
72.5°	15.8	16.9	17.6	18.0	17.6	16.9	15.8	14.5	13.2	11.8	10.4
70°	20.3	20.5	20.6	20.6	20.6	20.5	20.3	19.9	19.2	18.4	17.3
67.5°	25.0	25.6	25.8	25.8	25.8	25.6	25.0	24.1	22.6	21.2	20.1
65°	16.0	14.8	13.7	12.9	13.7	14.8	16.0	16.8	16.7	16.9	17.3
62.5°	9.6	9.2	9.1	9.0	9.1	9.2	9.6	9.9	9.8	10.3	11.3
60°	5.8	5.9	5.6	5.2	5.6	5.9	5.8	5.7	5.6	5.8	6.2
57.5°	4.2	4.5	4.8	5.2	4.8	4.5	4.2	3.9	3.7	3.7	3.9
55°	6.2	6.8	7.3	7.7	7.3	6.8	6.2	5.7	5.2	4.9	5.2
52.5°	18.0	16.2	15.6	16.1	15.6	16.2	18.0	19.9	20.9	20.9	17.9
50°	101.9	104.0	106.6	109.5	106.6	104.0	101.9	99.1	93.4	85.3	73.7
47.5°	240.8	236.3	232.0	230.6	232.0	236.3	240.8	237.9	227.6	212.5	210.2
45°	456.6	423.0	405.9	416.1	405.9	423.0	456.6	493.3	456.7	400.1	354.5
42.5°	921.5	971.2	1010.1	1028.5	1010.1	971.2	921.5	878.8	799.3	721.6	633.8
40°	1155.3	1136.6	1146.6	1161.9	1146.6	1136.6	1155.3	1186.5	1166.5	1203.0	1184.3
37.5°	1422.2	1428.4	1383.5	1310.0	1383.5	1428.4	1422.2	1411.1	1433.7	1419.5	1396.8
35°	1551.6	1631.7	1781.6	1817.5	1781.6	1631.7	1551.6	1522.3	1508.5	1495.7	1477.2
32.5°	1713.7	1796.8	1822.3	1832.3	1822.3	1796.8	1713.7	1618.5	1580.7	1569.6	1561.2
30°	1907.4	1944.9	1935.5	1949.5	1935.5	1944.9	1907.4	1799.4	1715.8	1690.3	1668.2
27.5°	2119.6	2141.5	2134.4	2153.1	2134.4	2141.5	2119.6	2066.6	1946.6	1878.8	1814.3
25°	2667.3	2840.4	2831.3	2871.8	2831.3	2840.4	2667.3	2483.5	2262.7	2154.1	2030.9
22.5°	5403.4	6015.2	6381.5	6736.1	6381.5	6015.2	5403.4	4169.7	3156.3	2668.2	2359.9
20°	12073.1	13836.2	14220.0	14080.2	14220.0	13836.2	12073.1	9289.6	6778.9	3946.7	3045.4
17.5°	25915.2	32950.0	36727.3	37147.4	36727.3	32950.0	25915.2	18055.8	14066.8	8857.5	4965.3
15°	48770.8	61066.0	68047.0	68780.4	68047.0	61066.0	48770.8	37095.6	25794.6	16953.2	9875.3
12.5°	79728.4	99308.6	113682.8	115286.4	113682.8	99308.6	79728.4	61652.7	41300.1	27580.4	16537.1
10°	122133.2	148605.6	169539.0	174638.6	169539.0	148605.6	122133.2	92035.1	64927.4	40214.8	23238.8
7.5°	164457.5	194667.9	219305.0	225101.7	219305.0	194667.9	164457.5	124531.1	86760.5	55988.4	32801.7
5°	197543.8	236197.3	255858.2	262354.1	255858.2	236197.3	197543.8	154031.7	107384.9	69741.2	40957.7
2.5°	222763.8	259262.0	282343.2	291813.1	282343.2	259262.0	222763.8	176587.3	124215.1	80010.8	47336.9
0°	232499.2	267902.5	297295.3	315573.0	297295.3	267902.5	232499.2	185470.9	130769.3	84585.3	49086.1
-2.5°	228683.1	262770.3	287750.6	299607.1	287750.6	262770.3	228683.1	182133.4	128586.0	83495.9	50261.4
-5°	209391.3	243791.4	263105.5	269223.5	263105.5	243791.4	209391.3	165331.1	117455.8	77126.5	46805.7
-7.5°	177062.5	207342.2	230243.6	234348.6	230243.6	207342.2	177062.5	139971.6	98619.5	65544.2	40345.9
-10°	140332.7	166545.2	184015.9	187320.6	184015.9	166545.2	140332.7	108493.9	77576.2	51259.7	30438.1
-12.5°	99475.0	122499.8	136312.7	138861.5	136312.7	122499.8	99475.0	79165.8	56541.1	36896.3	23281.8
-15°	67598.2	81940.0	90311.9	91157.2	90311.9	81940.0	67598.2	52666.7	37944.7	25759.4	15406.0
-17.5°	42296.2	50827.1	56044.9	56093.3	56044.9	50827.1	42296.2	31097.3	23905.7	15923.4	9456.8
-20°	24487.0	28557.9	31477.2	31464.9	31477.2	28557.9	24487.0	18343.4	13550.3	8653.1	6022.4



REPORT NUMBER: P701322 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	12758.0	15177.6	16937.8	16857.3	16937.8	15177.6	12758.0	9577.3	7041.8	5391.8	4364.7
-25°	6264.8	7191.1	7807.6	7759.5	7807.6	7191.1	6264.8	5268.7	4342.2	4225.1	4108.7
-27.5°	4245.6	4347.5	4417.9	4425.3	4417.9	4347.5	4245.6	4159.6	4059.6	4086.0	4126.3
-30°	4078.7	4102.0	4126.5	4132.9	4126.5	4102.0	4078.7	4085.6	4103.6	4112.3	4124.8
-32.5°	4119.0	4137.2	4164.2	4181.2	4164.2	4137.2	4119.0	4109.0	4105.8	4110.6	4121.8
-35°	4122.0	4143.0	4174.2	4188.2	4174.2	4143.0	4122.0	4109.1	4104.0	4106.1	4094.4
-37.5°	4102.8	4128.6	4155.4	4167.6	4155.4	4128.6	4102.8	4082.5	4066.6	4055.0	3987.7
-40°	4030.0	4056.4	4075.9	4077.5	4075.9	4056.4	4030.0	4001.5	3969.5	3908.7	3757.4
-42.5°	3909.4	3942.1	3957.2	3954.5	3957.2	3942.1	3909.4	3841.7	3740.1	3583.8	3307.6
-45°	3624.9	3740.7	3797.5	3811.5	3797.5	3740.7	3624.9	3385.4	3132.8	2861.7	2498.7
-47.5°	2745.6	2915.4	3024.2	3067.6	3024.2	2915.4	2745.6	2440.1	2176.6	1939.1	1637.0
-50°	1681.6	1697.4	1707.8	1713.2	1707.8	1697.4	1681.6	1612.2	1559.2	1524.1	1475.9
-52.5°	1503.0	1507.5	1509.9	1510.3	1509.9	1507.5	1503.0	1487.0	1467.8	1447.5	1427.9
-55°	1448.4	1457.4	1463.2	1464.6	1463.2	1457.4	1448.4	1425.1	1392.9	1358.4	1321.8
-57.5°	1305.8	1311.0	1316.7	1320.3	1316.7	1311.0	1305.8	1282.7	1247.8	1212.0	1171.6
-60°	1134.9	1139.7	1140.6	1137.4	1140.6	1139.7	1134.9	1117.4	1088.1	1054.7	1017.9
-62.5°	971.8	976.2	980.6	982.2	980.6	976.2	971.8	956.7	929.3	898.0	863.2
-65°	803.7	805.9	807.0	805.1	807.0	805.9	803.7	791.4	765.1	736.2	705.5
-67.5°	635.2	639.5	645.6	649.8	645.6	639.5	635.2	624.8	602.9	580.4	558.7
-70°	489.2	487.3	491.4	494.6	491.4	487.3	489.2	484.5	464.2	444.4	426.4
-72.5°	352.8	350.6	349.2	346.5	349.2	350.6	352.8	351.1	337.7	323.3	308.4
-75°	252.3	249.7	249.3	248.6	249.3	249.7	252.3	252.8	244.0	234.7	225.4
-77.5°	205.4	204.4	203.1	201.6	203.1	204.4	205.4	205.2	197.4	189.6	182.7
-80°	179.3	179.4	178.7	177.8	178.7	179.4	179.3	178.8	173.2	167.4	161.4
-82.5°	159.6	159.5	159.0	158.4	159.0	159.5	159.6	159.3	153.7	148.0	143.5
-85°	140.1	140.3	139.7	139.1	139.7	140.3	140.1	139.8	135.3	130.8	126.6
-87.5°	122.6	123.0	122.7	122.4	122.7	123.0	122.6	122.2	118.6	115.0	111.6
-90°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.0	1.3	1.3



REPORT NUMBER: P701322 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	99.8	97.9	96.0	95.0	94.0	92.1	90.2	87.6	85.0	81.8	78.6
87.5°	1.3	1.6	1.8	1.9	1.9	1.9	1.9	1.9	1.9	2.3	2.6
85°	1.8	1.9	1.9	2.2	2.4	2.4	2.3	2.3	2.3	2.4	2.6
82.5°	1.9	2.2	2.4	2.5	2.6	2.6	2.6	2.7	2.8	2.7	2.7
80°	2.4	2.5	2.6	2.6	2.6	2.7	2.8	3.0	3.2	3.2	3.1
77.5°	2.2	2.4	2.6	2.8	2.8	3.0	3.2	3.2	3.3	3.5	3.6
75°	2.9	3.5	3.8	3.9	3.8	3.4	3.3	3.6	3.7	3.8	3.9
72.5°	9.1	8.4	8.1	7.7	7.1	6.9	6.5	6.1	5.4	4.5	3.9
70°	16.6	15.9	15.5	15.5	15.5	15.0	13.2	11.1	9.4	8.1	6.5
67.5°	20.1	21.0	21.9	22.5	22.1	21.9	20.3	18.0	17.3	15.7	11.4
65°	18.5	20.2	21.3	21.7	21.9	23.1	24.7	24.2	25.3	24.3	18.9
62.5°	13.1	15.4	16.6	17.7	17.9	19.0	22.2	25.7	30.8	32.2	26.1
60°	7.6	9.0	10.6	12.1	13.2	15.5	19.3	24.9	32.1	31.6	29.1
57.5°	4.9	6.0	7.5	8.7	9.1	11.8	15.9	22.9	30.1	29.9	26.3
55°	6.6	7.6	8.3	9.7	10.4	12.4	14.6	20.3	27.2	29.4	28.1
52.5°	12.8	17.2	18.5	16.8	16.7	17.7	18.9	23.5	27.6	30.9	32.1
50°	65.7	72.3	63.8	51.1	53.1	37.2	41.4	40.4	38.6	40.4	39.2
47.5°	201.1	186.0	171.1	157.9	141.4	122.4	118.0	91.3	88.6	65.9	65.7
45°	346.8	329.4	304.7	283.8	273.1	252.0	237.7	217.3	176.6	157.8	109.6
42.5°	630.4	533.3	448.6	410.3	372.6	356.0	345.0	331.6	309.9	271.7	227.2
40°	1071.9	957.2	796.0	589.4	499.9	440.8	420.0	415.4	404.5	383.9	336.9
37.5°	1388.3	1323.2	1161.3	982.5	741.1	591.2	517.2	477.0	474.5	463.5	432.3
35°	1457.7	1438.0	1406.4	1276.4	1071.2	946.8	700.2	579.6	531.3	522.6	512.1
32.5°	1549.0	1528.1	1500.1	1475.8	1423.0	1406.6	1101.2	765.5	608.0	576.1	559.4
30°	1645.9	1632.3	1613.3	1605.0	1609.2	1603.3	1532.2	1105.4	778.5	628.0	608.9
27.5°	1779.7	1742.5	1727.4	1741.8	1770.9	1787.9	1733.4	1522.6	1019.2	769.7	658.5
25°	1964.8	1909.0	1887.6	1920.0	1971.6	1992.3	1956.2	1817.7	1468.6	959.0	710.4
22.5°	2211.0	2166.9	2156.7	2224.8	2240.2	2261.8	2194.7	2111.6	1923.9	1244.8	868.3
20°	2564.8	2462.4	2458.2	2472.6	2472.2	2461.8	2379.7	2304.8	2099.1	1612.4	1045.3
17.5°	3302.9	2756.5	2674.6	2646.5	2622.8	2565.0	2516.9	2401.4	2252.6	1922.8	1217.0
15°	4769.9	3372.7	2921.9	2858.5	2818.9	2756.3	2694.7	2561.3	2421.2	2115.0	1463.0
12.5°	9187.4	4326.0	3140.3	2994.0	2962.6	2912.9	2837.0	2772.2	2586.7	2288.7	1717.3
10°	12956.2	6274.9	3748.2	3151.5	3042.7	2974.9	2915.8	2850.2	2694.7	2445.6	1965.9
7.5°	18024.4	9160.3	4436.3	3310.2	3144.9	3031.6	2955.0	2889.7	2763.3	2512.4	2130.8
5°	22053.2	11243.6	4970.7	3466.3	3277.1	3142.2	3000.7	2931.0	2805.6	2537.8	2239.5
2.5°	24455.7	12584.8	5292.7	3555.9	3374.2	3287.3	3074.4	2971.6	2821.9	2555.0	2308.5
0°	25866.9	13248.1	5616.7	3602.8	3419.9	3367.7	3190.6	3009.6	2815.8	2560.7	2341.8
-2.5°	26977.2	13924.8	5779.4	3694.2	3490.4	3432.6	3321.9	3156.8	2848.3	2567.7	2361.3
-5°	25736.6	13248.1	5761.6	3750.8	3551.5	3495.5	3407.6	3253.0	2897.8	2583.3	2347.0
-7.5°	22731.8	11449.0	5421.0	3798.7	3616.0	3557.4	3466.0	3313.4	2999.4	2662.7	2314.0
-10°	17842.0	8740.1	4798.0	3843.9	3699.6	3622.8	3522.9	3330.9	3042.0	2725.3	2244.6
-12.5°	13111.7	6647.8	4212.8	3863.0	3796.6	3697.7	3574.3	3324.5	3068.2	2809.6	2198.7
-15°	8490.5	5256.5	4134.6	3931.8	3858.5	3747.9	3600.3	3307.4	3074.1	2860.9	2090.2
-17.5°	5989.1	4317.8	4029.5	3962.8	3882.1	3775.6	3555.5	3287.2	3048.1	2714.2	1867.0
-20°	4375.1	4162.2	4083.7	4007.8	3899.3	3778.7	3484.3	3249.1	2979.2	2412.2	1671.7



REPORT NUMBER: P701322 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	4166.4	4159.8	4154.1	4066.8	3949.5	3697.8	3424.0	3187.3	2877.0	2113.9	1481.6
-25°	4145.5	4178.5	4176.3	4115.9	3934.2	3641.3	3382.2	3080.8	2538.7	1854.4	1305.0
-27.5°	4150.9	4175.9	4179.0	4089.4	3867.9	3592.6	3311.6	2911.3	2122.6	1578.1	1299.2
-30°	4143.1	4160.1	4119.3	3986.6	3763.8	3507.5	3225.1	2468.9	1796.3	1367.5	1282.3
-32.5°	4130.4	4093.5	4010.5	3821.1	3618.9	3403.0	2764.5	2032.4	1490.3	1343.4	1268.6
-35°	4068.0	3951.5	3786.4	3622.0	3477.9	2917.3	2258.1	1647.1	1399.7	1317.1	1254.3
-37.5°	3875.5	3706.2	3534.5	3336.6	2876.2	2325.3	1731.4	1460.5	1360.4	1300.5	1214.6
-40°	3563.5	3384.2	3029.8	2644.8	2182.0	1660.2	1492.2	1402.6	1342.8	1264.0	1158.5
-42.5°	2974.9	2640.2	2302.2	1903.6	1564.2	1495.7	1429.0	1378.0	1304.0	1200.1	1084.3
-45°	2174.5	1867.2	1581.8	1532.9	1478.2	1438.6	1401.4	1324.5	1233.3	1118.7	1003.7
-47.5°	1545.6	1512.0	1474.3	1457.1	1433.9	1396.1	1321.2	1240.4	1135.5	1024.9	918.5
-50°	1445.4	1435.4	1426.7	1407.9	1353.0	1291.2	1215.0	1134.9	1033.7	931.6	830.7
-52.5°	1404.0	1369.5	1333.3	1291.3	1232.5	1163.7	1092.2	1020.3	931.8	835.4	740.3
-55°	1282.7	1241.7	1200.0	1149.8	1094.6	1035.6	974.8	903.3	823.9	734.5	648.3
-57.5°	1128.6	1088.0	1053.2	1010.5	961.0	906.8	846.0	778.6	711.9	632.4	555.4
-60°	979.2	939.8	909.1	870.0	823.2	771.3	716.0	657.8	596.1	539.2	479.6
-62.5°	830.1	797.0	764.0	727.0	685.7	641.0	593.8	549.8	504.5	455.4	400.9
-65°	675.9	644.1	614.3	589.4	559.9	528.2	490.5	451.6	410.8	367.4	320.0
-67.5°	536.2	512.5	491.6	470.8	445.3	418.6	386.7	352.7	319.3	285.7	248.6
-70°	407.2	388.2	369.0	348.6	331.1	314.3	291.8	266.8	238.7	215.4	194.5
-72.5°	293.7	280.0	266.1	253.9	239.7	228.7	217.8	204.4	188.3	170.5	155.9
-75°	216.2	208.6	201.8	196.5	189.7	181.3	174.3	166.4	158.3	149.6	140.9
-77.5°	176.2	172.7	169.2	166.6	163.7	159.8	155.0	148.6	142.3	135.2	128.0
-80°	155.8	152.9	150.0	148.1	145.9	143.3	140.2	134.8	129.1	122.5	116.3
-82.5°	138.9	136.2	133.5	131.7	129.8	127.6	125.1	120.4	115.7	110.4	105.3
-85°	122.4	120.3	118.2	116.5	114.7	112.6	110.4	106.8	103.1	98.6	94.1
-87.5°	108.2	106.5	104.7	103.2	101.8	99.9	98.0	95.2	92.4	88.7	84.9
-90°	1.3	1.3	1.3	1.6	1.9	1.9	1.9	1.9	1.9	2.3	2.6



REPORT NUMBER: P701322 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	75.4	72.1	69.2	66.3	63.8	61.2	58.3	55.4	51.6	47.7	42.9
87.5°	2.6	2.6	2.8	2.9	2.9	2.9	3.0	3.2	3.2	3.2	3.3
85°	2.7	2.8	3.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.4
82.5°	2.9	3.2	3.2	3.2	3.4	3.5	3.5	3.4	3.3	3.3	3.5
80°	3.1	3.2	3.4	3.4	3.6	3.9	3.8	3.7	3.7	3.7	3.8
77.5°	3.5	3.4	3.6	3.8	3.8	3.9	4.0	4.0	4.2	4.1	4.0
75°	3.9	3.8	3.8	3.9	4.0	4.0	4.2	4.3	4.5	4.5	4.3
72.5°	3.9	4.0	4.0	4.0	4.2	4.3	4.5	4.6	4.7	4.8	4.6
70°	5.1	4.3	4.3	4.4	4.6	4.7	4.8	5.0	5.0	5.1	4.9
67.5°	7.2	6.0	5.2	4.9	5.0	5.1	5.2	5.4	5.5	5.4	5.2
65°	13.9	9.6	6.4	6.0	5.7	5.7	5.8	5.9	5.9	6.0	5.6
62.5°	20.4	15.0	11.0	8.1	7.0	7.2	6.4	6.9	6.6	6.7	6.3
60°	26.7	20.7	16.2	12.8	10.3	9.3	8.9	8.1	8.0	7.6	7.2
57.5°	26.2	25.3	22.8	18.3	15.7	13.3	12.0	10.8	9.6	9.1	8.2
55°	25.8	25.8	28.5	25.7	22.6	18.9	16.7	14.5	12.0	11.0	9.4
52.5°	30.0	30.6	32.9	34.4	32.1	26.4	24.0	18.5	16.4	13.1	11.4
50°	37.3	40.6	41.0	44.6	42.8	39.0	32.1	26.5	21.3	16.1	13.6
47.5°	56.5	59.6	56.5	59.4	56.6	53.5	45.2	36.0	26.6	21.0	15.9
45°	108.4	90.4	87.6	82.5	76.0	72.4	61.1	46.4	36.2	26.5	18.2
42.5°	180.7	155.3	140.9	110.5	107.3	94.4	79.7	63.0	46.4	32.3	22.2
40°	282.3	244.5	210.6	176.1	146.1	119.3	103.6	82.0	57.4	39.8	27.5
37.5°	381.0	336.0	297.0	245.8	195.6	160.0	129.8	102.2	71.5	50.4	33.0
35°	463.1	421.1	368.7	313.8	261.1	201.4	157.9	124.9	90.4	61.6	38.7
32.5°	530.4	488.0	427.9	372.3	313.3	242.8	192.1	149.0	109.7	73.3	44.6
30°	580.7	540.3	483.2	418.4	355.6	285.9	226.4	171.9	129.1	85.4	51.3
27.5°	632.9	594.0	536.8	465.1	392.2	323.0	254.6	193.6	148.7	97.8	60.3
25°	685.0	645.2	592.2	516.8	428.9	352.0	280.2	214.3	167.2	110.9	68.7
22.5°	730.6	692.3	647.3	571.4	470.3	380.2	304.2	236.7	179.8	122.9	76.7
20°	772.5	732.3	699.0	617.6	515.2	414.0	327.6	254.1	191.5	133.9	84.1
17.5°	832.4	768.0	725.9	653.1	557.7	448.7	351.9	270.5	202.2	143.8	91.0
15°	969.3	802.9	752.4	684.4	592.2	481.4	376.2	286.4	211.9	152.7	97.1
12.5°	1094.5	836.0	780.2	711.3	618.2	510.1	400.0	301.3	220.6	161.1	102.3
10°	1221.0	868.1	807.4	737.2	640.4	534.9	423.0	316.8	231.4	169.1	106.8
7.5°	1359.7	899.6	832.8	762.1	659.6	555.1	443.0	334.3	241.9	176.2	110.8
5°	1485.7	928.7	859.1	789.8	679.0	571.0	460.1	350.5	251.4	182.5	114.2
2.5°	1574.0	953.3	885.1	815.7	695.8	583.9	474.5	364.9	260.0	187.7	117.0
0°	1639.7	975.1	908.8	838.5	709.7	593.8	486.3	377.4	267.3	191.9	119.1
-2.5°	1637.0	993.4	928.2	860.5	735.4	608.4	493.9	384.0	275.0	197.8	123.5
-5°	1609.0	1009.5	945.7	879.1	757.0	619.7	499.0	388.4	281.3	202.4	127.1
-7.5°	1574.4	1027.5	962.3	894.1	773.6	627.3	501.6	390.8	286.0	205.7	129.9
-10°	1517.4	1045.2	977.6	901.3	777.0	631.8	502.4	391.2	289.2	207.8	131.9
-12.5°	1446.9	1061.4	990.7	904.2	775.2	634.0	505.8	390.7	290.5	208.4	132.9
-15°	1353.2	1083.1	1006.7	903.4	770.1	633.2	505.5	388.0	288.2	206.9	132.9
-17.5°	1221.1	1099.3	1021.9	900.3	762.1	629.5	501.2	382.2	284.1	203.1	131.6
-20°	1205.3	1114.3	1030.4	890.6	751.0	621.7	492.8	373.3	278.3	198.0	129.1



REPORT NUMBER: P701322 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1216.3	1131.3	1026.4	874.3	737.4	610.1	480.7	361.4	270.8	191.6	125.7
-25°	1218.6	1147.6	1020.4	865.4	721.7	594.0	466.6	349.7	261.5	183.9	121.5
-27.5°	1217.7	1144.7	1011.2	846.6	704.3	574.0	451.0	341.5	253.9	175.0	116.4
-30°	1214.8	1113.9	978.6	819.4	680.4	551.6	432.9	331.2	245.3	167.8	110.5
-32.5°	1198.0	1079.5	936.7	788.6	651.9	526.3	412.8	318.8	234.9	161.8	106.8
-35°	1154.0	1032.8	893.9	753.1	620.5	501.8	393.2	304.1	222.6	154.3	103.6
-37.5°	1105.9	974.8	850.5	714.3	586.1	474.3	375.0	288.1	208.4	145.3	100.0
-40°	1036.2	911.5	793.2	670.8	550.8	443.7	353.9	270.2	195.6	134.8	95.5
-42.5°	963.1	845.2	732.6	619.5	512.9	416.0	330.2	249.8	181.9	126.9	90.2
-45°	889.0	776.8	669.4	569.1	472.3	385.1	304.5	227.9	166.3	119.7	86.1
-47.5°	810.7	706.3	607.8	515.2	433.8	351.1	274.7	208.2	149.2	111.5	84.5
-50°	730.0	634.5	545.3	465.0	389.9	314.4	243.8	186.5	138.5	102.3	82.5
-52.5°	648.5	562.0	485.8	414.8	344.0	274.4	215.8	163.3	126.7	97.4	80.3
-55°	565.2	494.9	428.7	362.1	295.7	238.6	185.8	147.8	114.0	94.4	77.8
-57.5°	493.0	431.3	368.6	306.6	251.8	202.5	162.8	131.5	107.8	90.9	76.3
-60°	421.7	363.7	305.7	256.4	210.1	172.3	143.7	118.1	103.4	87.5	74.5
-62.5°	347.5	296.0	251.2	208.4	176.1	149.5	126.1	112.0	98.3	84.9	72.4
-65°	277.9	236.7	198.4	173.9	149.7	129.8	118.6	105.6	94.2	82.1	70.2
-67.5°	211.4	188.7	166.1	144.1	131.3	121.0	110.6	100.3	90.1	79.0	67.8
-70°	173.5	153.2	140.2	130.6	121.3	112.2	104.2	95.3	85.8	76.0	65.2
-72.5°	146.4	137.1	128.1	119.6	112.4	105.1	97.9	90.2	81.8	72.8	62.5
-75°	132.2	124.6	117.8	111.1	104.4	97.9	91.9	85.3	77.6	69.4	59.7
-77.5°	121.1	114.5	108.5	102.6	97.0	91.6	86.1	80.3	73.1	65.7	56.7
-80°	110.6	105.1	99.8	94.6	89.8	85.1	80.0	74.8	68.4	61.9	53.6
-82.5°	100.5	95.8	91.0	86.2	82.0	77.7	73.4	69.2	63.5	57.9	50.6
-85°	90.1	86.1	81.8	77.5	73.8	70.1	67.1	64.0	59.3	54.6	48.1
-87.5°	81.6	78.3	74.9	71.5	68.6	65.7	62.7	59.7	55.5	51.2	45.5
-90°	2.6	2.6	2.6	2.6	2.6	2.6	2.9	3.2	3.2	3.2	3.2



REPORT NUMBER: P701322 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	38.0	31.5	25.1	17.7	10.3	6.7	3.2
87.5°	3.4	3.4	3.3	3.3	3.3	3.3	3.2
85°	3.6	3.5	3.4	3.5	3.4	3.4	3.2
82.5°	3.7	3.7	3.6	3.6	3.5	3.5	3.2
80°	3.9	3.8	3.7	3.7	3.7	3.5	3.2
77.5°	4.1	4.0	3.8	3.9	3.8	3.6	3.2
75°	4.3	4.2	4.0	4.0	3.9	3.7	3.2
72.5°	4.4	4.4	4.2	4.1	4.0	3.8	3.2
70°	4.7	4.6	4.4	4.3	4.1	3.9	3.2
67.5°	5.0	4.9	4.7	4.5	4.3	4.0	3.2
65°	5.4	5.2	4.9	4.6	4.4	4.0	3.2
62.5°	5.8	5.6	5.1	4.8	4.5	4.1	3.2
60°	6.3	5.9	5.3	5.0	4.7	4.2	3.2
57.5°	7.3	6.3	5.8	5.1	4.9	4.3	3.2
55°	8.5	6.7	6.2	5.3	5.0	4.4	3.2
52.5°	9.8	7.3	6.7	5.5	5.2	4.5	3.2
50°	11.1	8.7	7.2	5.6	5.5	4.6	3.2
47.5°	12.7	10.1	7.8	5.8	5.7	4.6	3.2
45°	14.7	11.5	8.3	6.3	6.0	4.7	3.2
42.5°	16.8	13.0	8.9	6.7	6.2	4.8	3.2
40°	19.0	14.6	9.9	7.4	6.5	4.9	3.2
37.5°	21.5	16.2	11.1	8.1	6.8	4.9	3.2
35°	23.9	18.0	12.3	8.9	7.1	5.0	3.2
32.5°	27.1	20.0	13.5	9.7	7.4	5.1	3.2
30°	31.9	21.9	14.7	10.6	7.7	5.2	3.2
27.5°	36.6	23.9	16.3	11.4	8.1	5.2	3.2
25°	41.3	25.8	17.9	12.3	8.4	5.3	3.2
22.5°	45.8	27.8	19.4	13.2	8.8	5.4	3.2
20°	50.2	29.9	20.8	14.1	9.1	5.4	3.2
17.5°	54.3	31.9	22.2	15.0	9.4	5.5	3.2
15°	57.9	33.8	23.6	15.8	9.8	5.5	3.2
12.5°	61.2	35.6	24.9	16.7	10.1	5.6	3.2
10°	64.2	37.4	26.1	17.5	10.4	5.6	3.2
7.5°	66.8	39.0	27.2	18.4	10.8	5.7	3.2
5°	69.2	40.5	28.3	19.1	11.1	5.7	3.2
2.5°	71.2	41.9	29.4	19.9	11.3	5.8	3.2
0°	72.8	43.2	30.3	20.6	11.6	5.8	3.2
-2.5°	75.1	45.0	31.6	21.5	12.2	6.1	3.2
-5°	77.1	46.6	32.9	22.4	12.8	6.3	3.2
-7.5°	78.7	48.2	34.0	23.2	13.4	6.5	3.2
-10°	79.9	49.5	35.1	23.9	13.9	6.8	3.2
-12.5°	80.7	50.7	36.1	24.6	14.4	7.0	3.2
-15°	81.1	51.8	36.9	25.2	14.8	7.2	3.2
-17.5°	81.1	52.7	37.7	25.8	15.3	7.4	3.2
-20°	80.8	53.4	38.4	26.3	15.7	7.6	3.2



REPORT NUMBER: P701322 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-2S-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	80.1	53.9	38.9	26.7	16.0	7.8	3.2
-25°	79.0	54.4	39.4	27.1	16.3	7.9	3.2
-27.5°	77.5	54.8	39.7	27.4	16.6	8.1	3.2
-30°	75.4	54.9	39.9	27.7	16.8	8.2	3.2
-32.5°	72.9	54.9	40.3	27.8	17.0	8.3	3.2
-35°	71.8	54.7	40.5	28.0	17.1	8.4	3.2
-37.5°	71.4	54.6	40.5	28.0	17.2	8.5	3.2
-40°	70.8	54.5	40.5	28.0	17.2	8.6	3.2
-42.5°	69.9	54.4	40.5	28.0	17.2	8.6	3.2
-45°	68.8	54.1	40.5	27.9	17.2	8.7	3.2
-47.5°	67.5	53.7	40.3	27.8	17.1	8.7	3.2
-50°	66.6	53.1	40.1	27.7	16.9	8.7	3.2
-52.5°	65.6	52.4	39.7	27.5	16.7	8.7	3.2
-55°	64.5	51.7	39.3	27.2	16.5	8.7	3.2
-57.5°	63.2	50.8	38.7	26.8	16.2	8.6	3.2
-60°	61.8	49.8	38.0	26.4	15.8	8.5	3.2
-62.5°	60.3	48.7	37.3	25.9	15.6	8.5	3.2
-65°	58.5	47.4	36.4	25.3	15.3	8.4	3.2
-67.5°	56.6	46.0	35.5	24.7	14.9	8.3	3.2
-70°	54.6	44.5	34.4	23.9	14.5	8.1	3.2
-72.5°	52.5	42.8	33.3	23.3	14.1	8.0	3.2
-75°	50.3	41.1	32.1	22.7	13.7	7.9	3.2
-77.5°	47.9	39.3	31.0	22.0	13.2	7.7	3.2
-80°	45.5	37.7	30.0	21.2	12.6	7.5	3.2
-82.5°	43.6	36.3	28.8	20.4	12.1	7.4	3.2
-85°	41.8	34.8	27.7	19.5	11.5	7.2	3.2
-87.5°	40.0	33.2	26.4	18.6	10.9	7.0	3.2
-90°	3.2	3.2	3.2	3.2	3.2	3.2	3.2

(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

