

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: P735973 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-40-70-4S-VHE-S**

Issue Date: 1/29/2024

Test Information

Test Method: LM-79-08
Report Number: P735973 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320L-40-70-4S-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 4S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

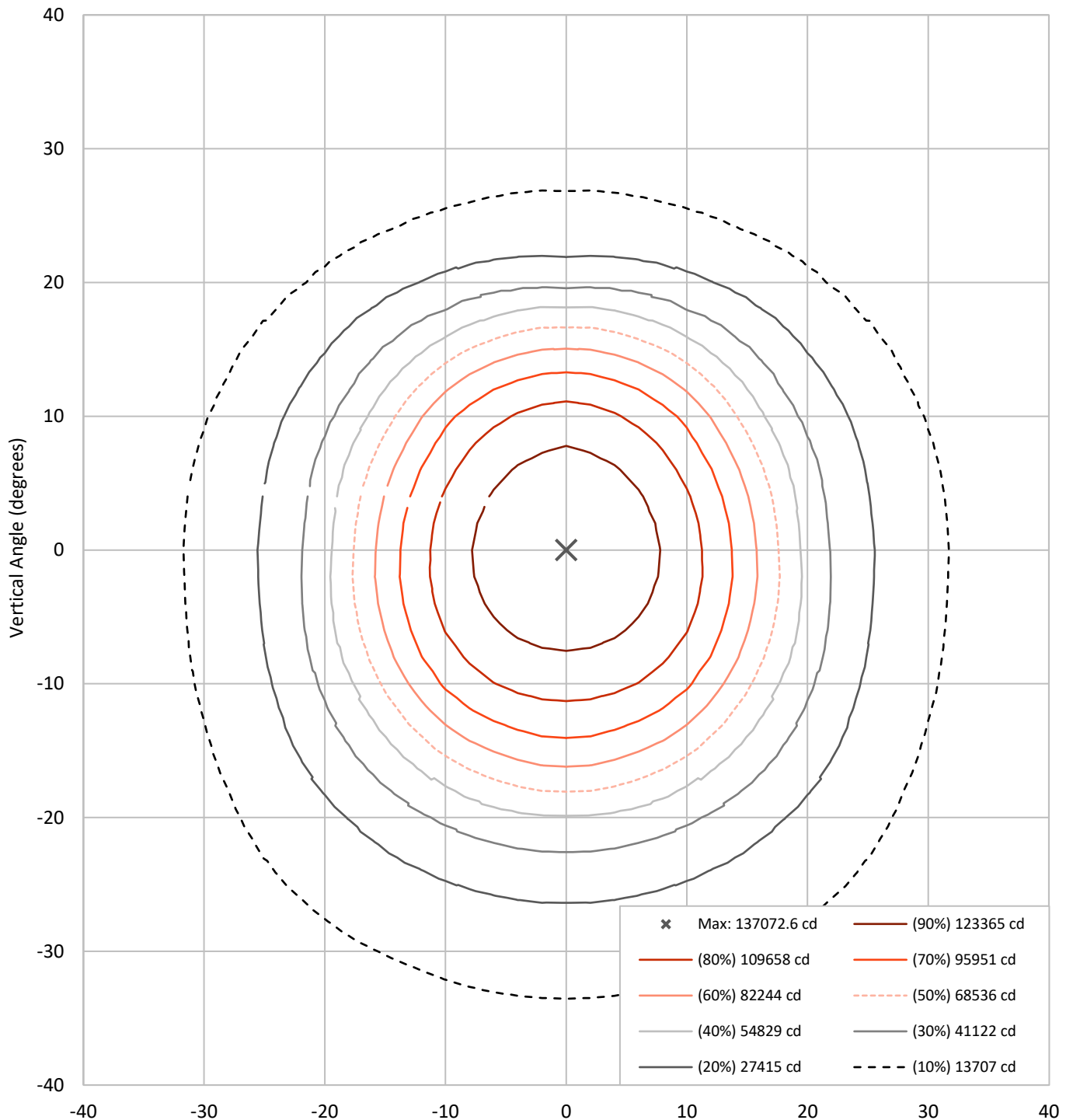
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	56860.4 lumens	Max Intensity:	137072.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	165.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	35.2°H x 34.7°V	Field Angle (10%):	63.4°H x 60.3°V
Beam Lumens:	30518.7 lumens	Field Lumens:	49663.1 lumens
Beam Efficiency:	53.7%	Field Efficiency:	87.3%

Input Watts (W): 344.2
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





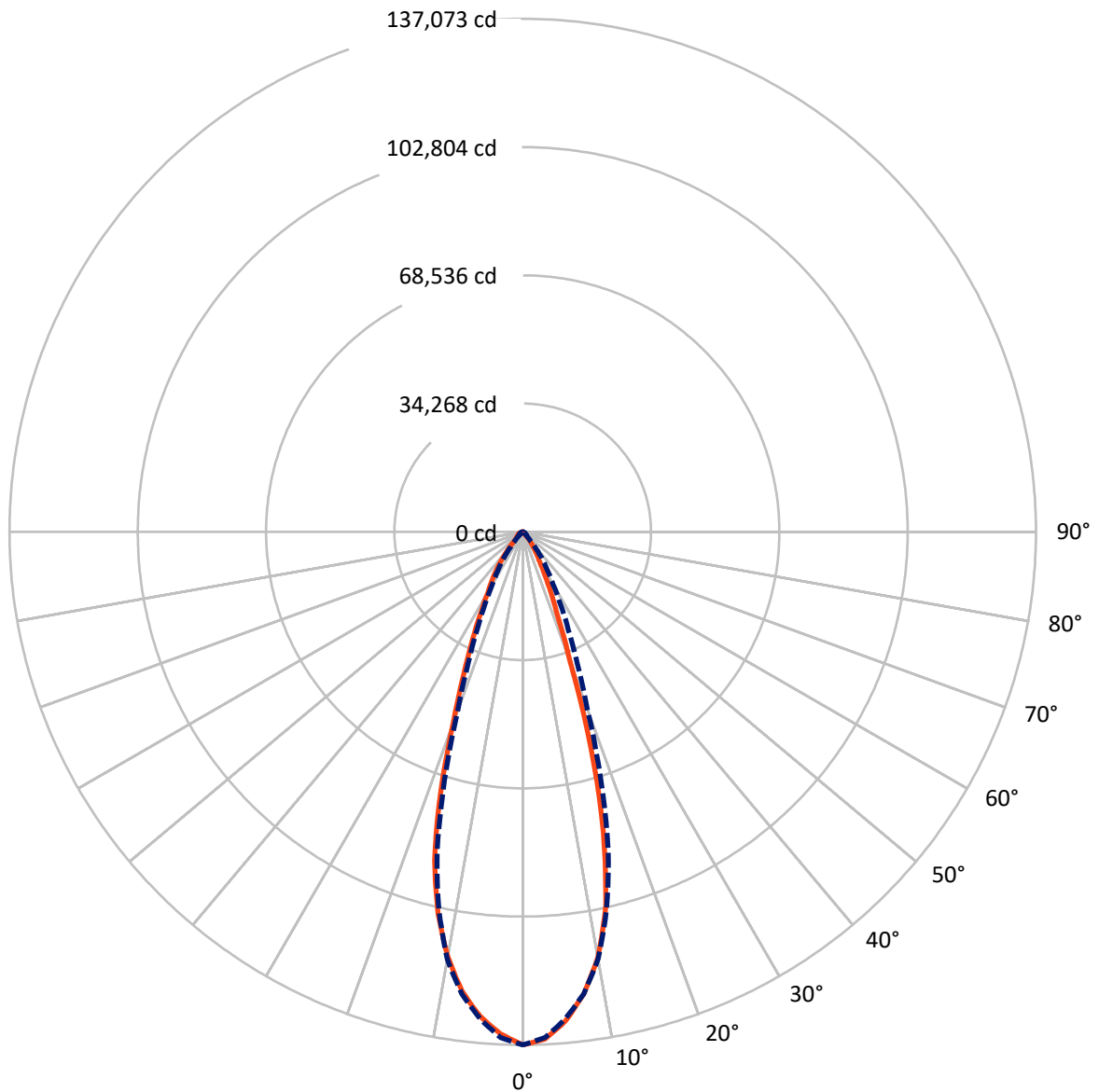
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Lumen Table

90	0.2		0.6		1.1		1.5		1.7		1.5		1.1		0.6		0.2	
80	0.2		0.1	0.1	0.3	0.5	0.4	0.4	0.5	0.5	0.4	0.4	0.5	0.3	0.1	0.1	0.2	
70	0.2		0.3	0.5	0.8	0.7	0.6	0.7	0.8	0.8	0.7	0.6	0.7	0.8	0.5	0.3	0.2	
60	0.6		0.7	1.6	3.3	5.9	9.4	13.8	17.8	17.8	13.8	9.4	5.9	3.3	1.6	0.7	0.6	
50	0.6		1.7	5.4	10.3	17.0	39.3	87.8	142.2	142.2	87.8	39.3	17.0	10.3	5.4	1.7	0.6	
40	1.2		3.0	9.0	17.5	54.9	168.8	368.3	558.6	558.6	368.3	168.8	54.9	17.5	9.0	3.0	1.2	
30	1.2		4.0	11.8	28.0	142.8	473.7	1265.6	2248.9	2248.9	1265.6	473.7	142.8	28.0	11.8	4.0	1.2	
20	1.8		5.0	13.9	38.8	223.6	777.5	2301.1	3684.8	3684.8	2301.1	777.5	223.6	38.8	13.9	5.0	1.8	
10	1.8		5.5	15.4	43.4	239.6	816.6	2412.4	3713.9	3713.9	2412.4	816.6	239.6	43.4	15.4	5.5	1.8	
0	2.1		5.7	16.3	39.9	191.2	603.2	1518.5	2494.8	2494.8	1518.5	603.2	191.2	39.9	16.3	5.7	2.1	
-10	2.1		5.3	16.2	34.2	105.2	335.0	657.7	949.8	949.8	657.7	335.0	105.2	34.2	16.2	5.3	2.1	
-20	2.0		4.5	14.6	28.6	50.5	124.3	250.4	346.2	346.2	250.4	124.3	50.5	28.6	14.6	4.5	2.0	
-30	2.0		3.5	11.0	22.9	36.1	50.1	68.4	87.6	87.6	68.4	50.1	36.1	22.9	11.0	3.5	2.0	
-40	1.7		2.6	6.8	14.9	25.7	34.7	41.9	47.0	47.0	41.9	34.7	25.7	14.9	6.8	2.6	1.7	
-50	1.7		2.0	4.0	7.6	12.9	18.3	23.3	26.6	26.6	23.3	18.3	12.9	7.6	4.0	2.0	1.7	
-60	1.7		2.0	4.0	7.6	12.9	18.3	23.3	26.6	26.6	23.3	18.3	12.9	7.6	4.0	2.0	1.7	
-70	1.7		2.0	4.0	7.6	12.9	18.3	23.3	26.6	26.6	23.3	18.3	12.9	7.6	4.0	2.0	1.7	
-80	1.2		7.2		16.2		26.3		32.2		26.3		16.2		7.2		1.2	
-90	1.2		7.2		16.2		26.3		32.2		26.3		16.2		7.2		1.2	

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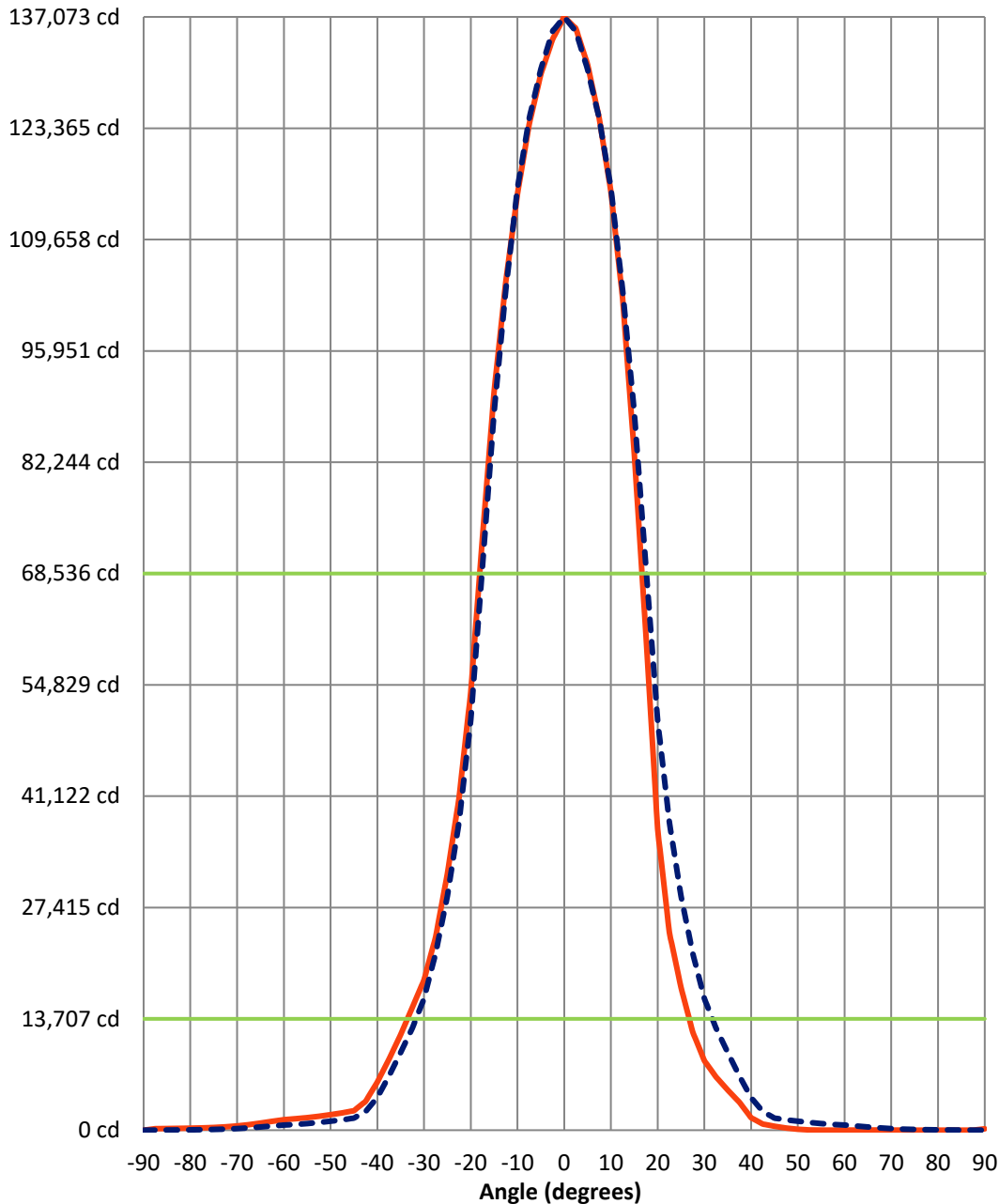
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 35.2°
 V Angle: 34.7°
 Lumens: 30518.7
 Efficiency: 53.7%

Field:
 H Angle: 63.4°
 V Angle: 60.3°
 Lumens: 49663.1
 Efficiency: 87.3%

Spill:
 Lumens: 7197.4
 Efficiency: 12.7%

— 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°	6.1	11.5	17.0	27.8	38.7	48.5	58.3	66.1	73.9	79.0	84.1
87.5°	6.1	5.5	4.8	4.9	4.9	4.9	4.9	4.6	4.3	4.3	4.4
85°	6.1	5.6	5.0	5.1	5.2	5.2	5.1	4.8	4.5	4.6	4.6
82.5°	6.1	5.8	5.1	5.2	5.4	5.4	5.3	5.0	4.8	4.9	4.9
80°	6.1	5.9	5.2	5.4	5.7	5.6	5.5	5.4	5.2	5.3	5.2
77.5°	6.1	6.0	5.4	5.6	5.9	5.9	5.8	5.8	5.7	5.7	5.5
75°	6.1	6.1	5.5	5.8	6.1	6.2	6.2	6.2	6.2	6.0	5.6
72.5°	6.1	6.3	5.7	6.0	6.4	6.5	6.6	6.6	6.5	6.2	5.7
70°	6.1	6.4	5.9	6.2	6.7	6.8	7.0	7.0	6.8	6.5	6.2
67.5°	6.1	6.5	6.0	6.4	6.9	7.1	7.4	7.4	7.2	7.0	6.9
65°	6.1	6.7	6.2	6.7	7.2	7.6	7.9	7.8	8.0	7.6	7.7
62.5°	6.1	6.8	6.4	7.0	7.5	8.2	8.5	8.7	8.9	8.4	9.2
60°	6.1	7.0	6.6	7.2	7.8	8.8	9.1	9.8	10.0	10.7	10.9
57.5°	6.1	7.1	7.0	7.5	8.5	9.5	10.4	11.1	12.5	13.3	14.8
55°	6.1	7.2	7.4	7.8	9.3	10.2	11.8	12.6	15.5	16.9	19.8
52.5°	6.1	7.4	7.8	8.1	10.0	11.0	13.3	15.6	18.7	22.7	25.3
50°	6.1	7.5	8.3	8.4	10.9	12.6	14.9	18.9	22.9	29.0	32.8
47.5°	6.1	7.7	8.7	8.8	11.7	14.2	16.7	22.4	29.1	35.7	41.3
45°	6.1	7.8	9.2	9.5	12.6	15.8	19.8	25.9	35.7	44.0	50.4
42.5°	6.1	8.0	9.7	10.2	13.6	17.6	23.0	31.0	42.5	52.8	65.0
40°	6.1	8.1	10.3	11.2	14.7	19.4	26.3	37.1	50.1	61.9	81.8
37.5°	6.1	8.3	10.8	12.4	16.2	21.3	29.8	43.4	58.8	73.8	100.1
35°	6.1	8.4	11.4	13.6	17.6	23.8	33.2	49.8	67.8	90.7	122.3
32.5°	6.1	8.6	12.0	14.8	19.1	26.6	37.3	56.2	77.2	108.1	147.5
30°	6.1	8.7	12.6	16.0	20.5	29.3	42.4	62.7	86.9	125.7	171.6
27.5°	6.1	8.9	13.2	17.3	22.5	32.0	47.4	69.8	97.6	143.7	194.5
25°	6.1	9.0	13.8	18.5	24.5	34.6	52.3	76.6	109.9	162.3	216.2
22.5°	6.1	9.1	14.5	19.7	26.4	37.3	57.0	83.1	121.4	176.8	238.5
20°	6.1	9.3	15.1	21.0	28.4	40.4	61.5	89.2	132.0	190.4	256.4
17.5°	6.1	9.4	15.7	22.2	30.2	43.4	66.2	95.0	141.9	202.9	273.2
15°	6.1	9.5	16.3	23.4	32.0	46.3	70.8	100.7	150.8	214.4	289.0
12.5°	6.1	9.7	17.0	24.5	33.8	49.1	75.2	106.5	159.8	224.8	303.7
10°	6.1	9.8	17.5	25.7	35.4	51.8	79.2	112.0	168.7	238.3	319.8
7.5°	6.1	9.9	18.1	26.8	37.1	54.4	83.0	117.0	176.7	251.6	340.5
5°	6.1	10.0	18.7	27.8	38.6	56.7	86.4	121.7	183.9	263.9	360.0
2.5°	6.1	10.1	19.2	28.8	40.0	59.0	89.5	125.8	190.1	275.0	377.9
0°	6.1	10.2	19.7	29.8	41.4	61.0	92.2	129.5	195.3	284.8	394.0
-2.5°	6.1	10.6	20.5	31.1	43.3	63.5	95.4	134.0	202.2	292.8	402.1
-5°	6.1	10.9	21.2	32.3	45.1	65.7	98.2	137.8	207.9	299.2	407.9
-7.5°	6.1	11.3	21.8	33.4	46.9	67.8	100.6	141.1	212.3	303.9	411.6
-10°	6.1	11.6	22.5	34.5	48.5	69.6	102.6	143.8	215.4	306.8	413.2
-12.5°	6.1	11.9	23.1	35.5	49.9	71.3	104.1	145.8	217.1	307.9	415.0
-15°	6.1	12.2	23.6	36.4	51.3	72.7	105.3	147.1	216.8	306.6	415.0
-17.5°	6.1	12.5	24.1	37.2	52.5	73.9	105.9	148.0	214.7	303.2	411.5
-20°	6.1	12.8	24.6	37.9	53.5	74.8	106.5	148.4	211.2	297.7	404.4



REPORT NUMBER: P735973 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	6.1	13.0	25.0	38.6	54.4	75.5	107.0	148.2	206.5	290.1	393.8
-25°	6.1	13.3	25.3	39.1	55.2	76.4	107.0	147.3	200.5	280.3	382.8
-27.5°	6.1	13.5	25.6	39.6	55.8	77.2	106.6	145.8	193.3	272.0	373.4
-30°	6.1	13.7	25.9	39.9	56.2	77.7	105.6	143.6	188.9	264.2	361.1
-32.5°	6.1	13.8	26.1	40.2	57.0	78.0	104.2	141.8	186.4	254.4	345.7
-35°	6.1	14.0	26.2	40.3	57.6	78.0	103.6	139.6	182.9	242.6	327.1
-37.5°	6.1	14.1	26.3	40.4	58.0	78.0	103.3	136.8	178.3	228.7	309.3
-40°	6.1	14.2	26.4	40.3	58.3	78.3	102.7	133.2	172.6	219.8	291.9
-42.5°	6.1	14.3	26.4	40.3	58.5	78.5	101.6	128.9	167.2	212.5	272.5
-45°	6.1	14.4	26.3	40.4	58.6	78.4	100.0	125.2	161.3	203.7	252.8
-47.5°	6.1	14.4	26.2	40.3	58.5	78.1	98.2	123.0	154.5	193.7	241.3
-50°	6.1	14.4	26.0	40.3	58.3	77.6	97.2	120.4	146.8	184.7	228.2
-52.5°	6.1	14.4	25.8	40.3	57.9	76.9	96.2	117.4	141.6	174.6	213.1
-55°	6.1	14.3	25.5	40.1	57.3	76.0	94.9	114.2	137.4	163.4	198.6
-57.5°	6.1	14.3	25.2	39.8	56.6	74.8	93.3	112.4	132.6	156.3	183.1
-60°	6.1	14.2	24.8	39.4	55.7	73.5	91.6	110.0	127.8	150.0	169.3
-62.5°	6.1	14.1	24.5	38.9	54.9	71.9	89.5	107.3	124.4	142.7	160.5
-65°	6.1	13.9	24.0	38.3	54.0	70.1	87.2	104.2	120.6	136.9	151.4
-67.5°	6.1	13.8	23.5	37.6	53.0	68.3	84.7	100.8	116.5	131.3	144.1
-70°	6.1	13.6	23.0	36.8	51.8	66.5	81.9	97.2	112.1	125.5	137.6
-72.5°	6.1	13.4	22.4	36.0	50.5	64.5	79.1	93.3	107.5	119.6	130.8
-75°	6.1	13.2	21.7	35.1	49.0	62.3	76.1	89.3	102.6	113.6	123.8
-77.5°	6.1	12.9	21.0	34.0	47.5	59.9	72.8	85.1	97.5	107.3	116.7
-80°	6.1	12.7	20.3	33.0	46.0	57.7	69.4	80.7	92.2	100.9	109.4
-82.5°	6.1	12.4	19.5	31.8	44.3	55.5	66.7	76.6	86.7	94.4	102.1
-85°	6.1	12.1	18.7	30.5	42.5	53.3	64.0	73.2	82.5	88.9	95.3
-87.5°	6.1	11.9	17.9	29.2	40.7	50.9	61.2	69.7	78.3	84.0	89.8
-90°	6.1	5.4	4.7	4.7	4.7	4.7	4.7	4.4	4.1	4.1	4.1



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 CATALOG NUMBER: EPH-LS-08-0320L-40-70-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	87.8	91.5	94.9	98.3	102.4	106.5	110.6	114.6	119.0	123.4	127.8
87.5°	4.1	3.8	3.8	3.8	3.5	3.2	2.9	2.7	2.7	2.7	2.6
85°	4.4	4.1	4.1	4.1	3.8	3.6	3.3	3.0	3.0	3.1	2.9
82.5°	4.7	4.4	4.3	4.1	4.0	4.1	3.8	3.5	3.5	3.4	3.2
80°	5.0	4.7	4.5	4.3	4.2	4.1	4.0	4.0	3.8	3.5	3.5
77.5°	5.1	4.8	4.6	4.6	4.5	4.2	4.1	4.1	4.0	4.0	3.8
75°	5.2	4.8	4.8	4.8	4.5	4.2	4.1	4.2	4.3	4.2	4.0
72.5°	5.4	5.3	5.1	4.9	4.7	4.5	4.5	4.6	5.0	5.4	5.8
70°	6.0	5.8	5.6	5.4	5.2	5.1	5.7	6.9	8.0	8.5	9.6
67.5°	6.7	6.5	6.3	6.1	6.2	6.7	7.5	10.0	12.2	13.7	15.3
65°	7.4	7.3	7.3	7.4	7.5	9.5	11.8	14.2	18.0	20.2	20.3
62.5°	8.2	9.3	8.9	9.5	11.4	13.6	17.0	21.5	26.3	28.2	27.0
60°	11.7	12.3	12.5	14.0	15.9	18.3	23.0	28.4	34.0	37.4	32.4
57.5°	16.1	16.9	18.1	19.0	21.1	22.5	28.1	34.7	38.3	40.5	34.8
55°	21.7	22.7	24.6	25.0	26.8	27.4	32.1	36.6	39.7	40.4	34.2
52.5°	28.7	29.9	32.6	33.1	33.2	33.8	34.4	39.4	41.8	41.1	35.5
50°	36.3	40.5	42.0	43.5	41.5	42.4	40.1	45.8	50.7	49.4	51.1
47.5°	47.5	52.8	54.9	57.7	56.3	60.9	59.1	70.1	73.9	95.9	100.8
45°	60.9	70.3	73.1	79.6	86.1	91.5	109.2	110.6	156.9	176.2	212.5
42.5°	77.1	91.7	103.5	105.9	137.4	154.1	178.7	219.1	259.7	296.8	321.5
40°	101.1	116.2	141.6	171.1	204.5	240.6	273.4	320.3	359.6	388.7	406.2
37.5°	128.5	157.2	191.7	245.0	290.2	327.0	364.2	404.7	441.7	467.3	500.8
35°	158.5	200.3	264.4	319.8	368.3	403.0	439.3	482.2	517.2	558.6	599.9
32.5°	194.9	244.3	324.6	384.5	424.0	465.0	506.9	552.1	602.1	653.1	706.0
30°	230.9	293.9	372.4	434.6	472.8	520.6	571.5	624.5	690.1	754.4	825.8
27.5°	259.3	336.4	411.1	475.5	519.9	576.5	638.6	707.8	785.7	864.4	959.2
25°	284.6	368.1	450.1	518.4	574.8	637.5	710.5	793.5	886.3	996.8	1295.2
22.5°	309.3	398.9	493.2	564.3	627.8	698.6	786.6	883.5	992.7	1139.6	1667.2
20°	334.6	433.8	534.5	602.5	676.1	755.5	858.6	971.1	1106.4	1453.5	2231.8
17.5°	360.6	469.9	569.6	636.0	713.5	810.3	930.3	1057.1	1222.1	1747.4	2938.9
15°	386.0	503.8	597.8	665.7	751.1	863.8	997.8	1153.2	1426.9	2157.6	3647.2
12.5°	410.3	534.3	618.7	691.2	788.3	914.2	1060.4	1234.8	1667.5	2711.1	4419.9
10°	433.2	561.3	636.9	715.6	824.5	961.6	1116.5	1306.6	1877.7	3153.4	5031.6
7.5°	457.9	584.5	653.3	738.7	858.0	1004.8	1162.7	1361.8	2034.2	3492.6	5486.0
5°	480.4	603.3	672.3	765.8	891.2	1043.9	1202.2	1408.1	2141.1	3707.6	5801.4
2.5°	499.9	618.3	690.0	791.5	922.4	1078.2	1238.1	1454.5	2236.4	3889.3	6200.4
0°	516.7	630.0	705.9	814.4	949.4	1106.7	1267.4	1491.8	2300.2	4011.7	6663.1
-2.5°	526.9	647.5	732.4	838.4	971.6	1126.9	1293.9	1531.7	2364.7	4276.2	6839.4
-5°	534.3	661.5	756.1	859.5	989.6	1141.7	1313.3	1559.9	2392.5	4349.0	6788.0
-7.5°	538.6	671.8	776.5	877.9	1005.7	1158.8	1343.9	1597.8	2405.1	4169.7	6497.1
-10°	540.8	680.4	789.8	893.2	1020.6	1174.6	1367.7	1622.2	2353.4	3927.7	6162.5
-12.5°	546.6	687.8	800.4	904.5	1030.5	1185.9	1386.3	1640.6	2235.8	3595.2	5702.5
-15°	548.2	691.5	809.2	912.2	1040.9	1202.5	1400.3	1643.7	2065.8	3165.5	5115.2
-17.5°	545.1	691.8	815.4	918.3	1046.1	1208.9	1404.8	1634.7	1938.9	2853.2	4524.3
-20°	537.2	683.6	817.3	918.8	1044.2	1211.5	1407.0	1630.8	1907.9	2534.0	3807.7



REPORT NUMBER: P735973 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	524.3	670.9	810.7	917.9	1050.9	1212.6	1400.5	1606.7	1840.7	2148.9	3094.3
-25°	510.5	652.7	793.5	921.1	1052.2	1207.0	1373.1	1562.4	1778.5	2019.6	2585.4
-27.5°	495.5	631.5	775.9	917.1	1045.8	1185.8	1340.2	1517.5	1695.5	1890.3	2131.2
-30°	477.5	608.5	752.3	902.2	1030.6	1161.5	1303.8	1447.1	1606.7	1782.0	1986.1
-32.5°	455.8	581.5	723.0	871.1	1010.6	1133.1	1252.1	1380.9	1523.2	1677.8	1846.6
-35°	432.3	554.0	688.6	833.3	986.0	1098.6	1202.0	1313.4	1439.4	1580.6	1737.5
-37.5°	408.4	522.3	648.3	789.4	937.9	1055.7	1148.9	1252.8	1363.8	1484.8	1630.6
-40°	381.4	485.9	606.3	739.6	871.3	998.7	1101.0	1195.3	1292.8	1403.5	1522.6
-42.5°	352.2	450.4	560.3	681.1	800.7	922.1	1050.3	1142.9	1230.2	1324.2	1428.6
-45°	327.9	411.2	510.6	618.0	725.9	843.5	967.2	1090.9	1170.6	1251.9	1340.9
-47.5°	299.7	371.4	462.3	551.8	651.4	762.2	879.4	994.2	1107.4	1186.5	1261.4
-50°	272.8	337.7	407.2	489.5	578.2	680.6	788.0	892.9	999.0	1106.1	1191.5
-52.5°	254.3	301.7	362.0	427.0	509.0	599.5	693.6	787.1	886.7	989.0	1087.4
-55°	234.3	274.9	317.9	373.1	440.6	521.2	599.5	683.3	768.9	863.2	959.1
-57.5°	215.3	248.9	282.6	324.6	381.4	443.0	511.6	580.5	658.0	737.0	819.1
-60°	196.5	224.0	252.7	286.2	325.3	377.2	426.9	486.8	551.3	616.2	689.2
-62.5°	178.4	200.9	224.7	253.0	285.7	316.4	357.4	403.9	450.4	507.9	567.0
-65°	167.8	180.3	199.0	223.6	249.0	276.1	302.8	331.2	371.7	414.6	456.6
-67.5°	156.5	168.0	179.7	194.9	217.2	238.3	259.8	284.8	310.6	338.4	369.0
-70°	148.0	156.1	166.5	178.4	190.0	202.8	221.9	241.8	261.7	283.3	307.3
-72.5°	140.1	147.6	155.4	163.7	173.9	183.7	193.7	204.5	220.1	239.2	257.0
-75°	132.0	139.0	146.1	153.4	161.0	168.4	176.3	186.0	196.8	208.4	219.3
-77.5°	123.9	130.3	136.8	143.1	150.0	157.2	164.0	170.9	179.3	188.3	196.9
-80°	115.8	121.5	127.5	133.3	139.4	145.7	151.7	157.5	164.8	172.5	180.1
-82.5°	107.8	113.3	118.4	123.5	128.8	134.0	139.4	144.9	151.6	158.4	164.8
-85°	100.2	104.9	109.3	113.6	118.5	123.4	128.0	132.6	138.7	144.8	150.4
-87.5°	94.0	98.3	102.0	105.7	110.0	114.3	118.3	122.3	127.5	132.7	137.4
-90°	3.8	3.4	3.4	3.4	3.1	2.7	2.7	2.7	2.7	2.7	2.4



REPORT NUMBER: P735973 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	132.2	135.3	138.3	140.4	142.4	145.5	148.5	152.9	157.3	161.1	164.8
87.5°	2.6	2.3	2.0	2.0	1.9	2.0	2.0	1.7	1.4	1.4	1.4
85°	2.7	2.6	2.5	2.5	2.6	2.3	2.0	2.0	2.0	2.0	2.0
82.5°	3.0	2.9	2.7	2.7	2.7	2.6	2.6	2.3	2.0	2.0	2.0
80°	3.4	3.2	3.1	2.9	2.7	2.7	2.7	2.4	2.0	2.0	2.0
77.5°	3.5	3.5	3.4	3.1	2.8	2.7	2.7	2.4	2.0	2.0	2.0
75°	4.0	4.0	3.9	3.8	3.7	3.8	4.0	3.9	3.7	3.5	3.3
72.5°	6.1	6.1	6.0	6.3	6.7	7.0	7.2	7.4	7.7	8.2	8.8
70°	10.8	11.6	11.6	11.6	11.6	11.3	10.9	10.8	10.8	11.0	11.2
67.5°	16.3	17.0	17.2	17.4	15.9	14.9	14.5	14.5	15.2	16.4	18.1
65°	20.8	19.5	18.4	17.2	17.3	17.2	16.5	16.1	16.7	17.4	18.2
62.5°	24.7	19.6	16.4	14.8	15.1	15.6	14.1	12.9	12.6	12.4	12.4
60°	26.5	18.5	13.0	11.0	9.9	9.3	8.3	7.1	6.7	6.6	6.8
57.5°	26.8	17.6	10.3	8.2	6.2	4.9	4.1	3.6	3.5	3.4	3.3
55°	26.0	17.8	10.1	9.2	8.4	7.7	6.7	6.5	6.2	6.1	6.5
52.5°	26.9	25.0	20.4	19.8	24.1	24.3	20.9	25.7	29.0	31.5	32.7
50°	53.2	51.1	64.6	64.6	78.2	89.8	86.5	93.3	105.1	115.4	121.7
47.5°	124.3	134.1	154.3	172.4	192.9	218.7	230.2	238.4	248.7	262.5	271.7
45°	231.6	255.8	282.0	311.4	345.6	375.9	393.6	410.6	421.8	434.1	448.6
42.5°	343.9	372.8	411.7	446.8	483.9	519.2	547.1	571.7	619.6	687.9	742.3
40°	440.0	472.8	518.1	564.8	608.5	653.2	776.4	881.4	1012.1	1207.3	1380.4
37.5°	535.5	573.5	623.9	681.2	812.9	946.3	1215.2	1505.7	1757.4	2039.7	2324.7
35°	639.5	689.4	756.8	949.7	1193.5	1549.0	1934.6	2366.1	2732.4	3126.5	3703.9
32.5°	762.3	849.5	1067.4	1418.0	1855.2	2360.2	2838.6	3381.0	3838.4	4562.5	5444.4
30°	920.6	1194.1	1612.5	2096.5	2686.5	3325.7	3925.5	4804.0	5830.3	6738.8	7489.1
27.5°	1302.5	1830.7	2414.9	3028.3	3767.1	4541.6	5799.3	6936.3	8040.5	9021.5	10161.2
25°	1872.7	2720.1	3718.6	4540.9	5544.8	6944.6	8366.7	9618.9	11297.2	12773.2	14429.1
22.5°	2679.3	3885.9	5172.0	6372.6	7914.3	9667.4	11580.7	13888.0	16219.4	18809.2	21113.0
20°	3466.5	4993.2	6621.7	8350.2	10324.6	12516.5	15644.2	19388.6	22981.2	27061.3	30501.6
17.5°	4514.9	6360.4	8286.4	10483.6	13022.0	16394.3	21010.7	26130.6	31686.1	37778.6	43412.6
15°	5580.9	7569.1	9807.2	12619.2	16209.8	20793.0	26682.3	33652.2	41776.7	50733.0	61621.5
12.5°	6454.6	8628.7	11245.7	14789.5	19485.6	25614.8	32750.3	41140.4	52278.7	65787.3	78437.7
10°	7201.0	9807.9	13114.8	17309.0	22832.7	29752.1	37857.9	48245.5	63249.4	78898.5	92781.2
7.5°	7969.9	11053.9	14556.1	19103.5	25384.1	33238.2	43219.7	56784.3	73292.6	89343.4	102074.5
5°	8695.2	11903.6	15465.5	20323.9	27115.9	35551.2	46876.3	63398.1	81362.6	97083.4	109044.2
2.5°	9263.3	12330.9	15944.5	21232.8	28052.0	36808.2	49168.5	67487.9	86332.7	101826.3	114091.1
0°	9558.0	12562.7	16210.2	21801.3	28828.5	37962.0	50482.6	69292.7	88354.4	103442.4	115943.4
-2.5°	9492.8	12450.8	16045.7	21362.6	28651.1	38170.7	51575.3	70233.3	88702.6	103993.7	115775.1
-5°	9355.6	12274.6	15819.8	20823.5	28015.7	37646.0	50388.8	67542.5	85379.7	101064.8	112518.3
-7.5°	9099.9	11979.5	15369.4	20035.1	26962.4	36082.0	47581.3	62487.1	79598.9	95314.3	106402.2
-10°	8723.9	11523.7	14722.9	18966.2	25187.6	33563.8	43340.1	54980.6	70988.0	85680.9	98001.0
-12.5°	8189.4	10878.8	13826.0	17472.4	23044.0	30425.6	38853.8	48525.5	59966.2	74136.5	85684.7
-15°	7509.2	10038.5	12777.1	16217.6	20876.3	26924.5	34030.6	41533.6	50302.5	60084.0	71340.4
-17.5°	6674.5	9050.4	11600.6	14566.7	18334.4	23408.9	29030.0	34884.5	41214.1	48412.3	55025.5
-20°	5679.1	7852.4	10255.7	13014.5	16242.8	19908.2	23994.4	28727.3	33633.5	38771.1	43316.6



REPORT NUMBER: P735973 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	4668.3	6650.9	8941.0	11353.3	14159.3	16957.1	19701.6	23220.7	27009.5	30728.8	34112.2
-25°	3652.7	5402.9	7532.2	9794.8	12047.0	14332.2	16560.7	18745.9	21472.3	23866.3	26349.6
-27.5°	2901.3	4210.5	5998.5	7973.0	9935.5	11842.4	13769.1	15594.4	17313.8	18759.5	20433.8
-30°	2281.7	3165.4	4546.6	6100.4	7817.6	9497.7	11157.9	12699.9	14053.9	15244.3	16406.9
-32.5°	2062.9	2423.8	3244.6	4425.3	5780.1	7254.1	8641.8	9966.2	11082.5	12188.7	13230.5
-35°	1908.3	2107.0	2375.3	3112.9	3995.2	5168.2	6256.0	7355.1	8292.6	9397.5	10251.8
-37.5°	1781.5	1934.6	2104.2	2278.2	2814.7	3402.0	4185.2	5009.1	5733.4	6660.2	7414.4
-40°	1658.8	1794.3	1926.9	2059.2	2201.9	2333.0	2799.2	3224.0	3715.3	4349.3	4891.7
-42.5°	1540.2	1659.5	1774.4	1881.9	1981.6	2067.6	2161.4	2251.3	2516.7	2839.8	3088.0
-45°	1433.7	1535.2	1631.3	1722.2	1798.2	1867.1	1939.3	2014.6	2113.2	2202.9	2276.9
-47.5°	1343.2	1423.4	1502.2	1576.2	1634.6	1693.4	1750.9	1815.9	1892.7	1967.9	2030.9
-50°	1261.4	1330.7	1390.5	1443.0	1491.5	1541.2	1587.1	1644.8	1706.6	1768.8	1820.9
-52.5°	1183.0	1244.7	1294.6	1334.5	1371.5	1412.0	1451.5	1497.5	1547.7	1600.0	1641.4
-55°	1051.1	1129.6	1202.1	1239.6	1268.6	1302.1	1335.5	1372.7	1415.1	1459.1	1491.9
-57.5°	905.4	982.9	1051.2	1099.9	1147.9	1197.0	1233.8	1262.9	1301.2	1338.8	1367.1
-60°	759.2	824.1	884.4	933.7	983.8	1032.9	1074.3	1112.3	1159.7	1202.7	1237.8
-62.5°	623.0	679.8	726.4	766.2	808.9	851.7	891.0	928.5	971.6	1010.2	1043.1
-65°	499.2	546.9	581.3	612.6	646.5	681.9	713.2	744.3	778.8	809.8	836.8
-67.5°	403.6	435.3	456.7	476.7	503.6	531.1	555.6	580.3	606.8	630.2	650.6
-70°	330.5	350.1	363.4	378.7	397.9	415.5	431.5	449.6	469.1	487.0	503.3
-72.5°	274.0	287.5	297.4	309.6	321.8	333.0	343.1	356.1	370.3	384.1	397.3
-75°	229.5	238.2	247.7	256.5	264.9	273.0	280.5	290.9	301.9	312.3	322.2
-77.5°	205.9	212.5	217.8	222.6	227.2	232.4	237.6	246.4	256.0	264.0	271.6
-80°	187.6	192.7	197.1	200.8	204.3	208.6	212.9	220.1	227.6	234.4	241.0
-82.5°	171.2	175.6	179.7	183.1	186.4	190.1	193.7	200.0	206.5	212.3	217.9
-85°	155.9	159.7	163.3	166.4	169.4	172.8	176.1	181.6	187.1	192.3	197.4
-87.5°	142.1	145.5	148.8	151.2	153.4	156.7	159.9	164.8	169.7	174.3	178.8
-90°	2.0	2.0	2.0	1.7	1.4	1.4	1.4	1.4	1.4	1.1	0.7



REPORT NUMBER: P735973 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	166.8	168.8	169.2	169.5	169.2	168.8	166.8	164.8	161.1	157.3	152.9
87.5°	1.0	0.7	1.0	1.4	1.0	0.7	1.0	1.4	1.4	1.4	1.7
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.3
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.4
77.5°	1.7	1.4	1.7	2.0	1.7	1.4	1.7	2.0	2.0	2.0	2.4
75°	3.0	2.7	2.4	2.0	2.4	2.7	3.0	3.3	3.5	3.7	3.9
72.5°	9.1	9.3	9.8	10.2	9.8	9.3	9.1	8.8	8.2	7.7	7.4
70°	10.9	10.3	10.2	10.2	10.2	10.3	10.9	11.2	11.0	10.8	10.8
67.5°	19.4	20.5	20.9	21.0	20.9	20.5	19.4	18.1	16.4	15.2	14.5
65°	18.9	19.6	19.7	19.7	19.7	19.6	18.9	18.2	17.4	16.7	16.1
62.5°	12.6	13.0	13.3	13.6	13.3	13.0	12.6	12.4	12.4	12.6	12.9
60°	7.1	7.6	7.8	8.1	7.8	7.6	7.1	6.8	6.6	6.7	7.1
57.5°	3.3	3.5	3.7	4.1	3.7	3.5	3.3	3.3	3.4	3.5	3.6
55°	6.9	7.2	7.4	7.5	7.4	7.2	6.9	6.5	6.1	6.2	6.5
52.5°	32.2	30.6	29.4	28.5	29.4	30.6	32.2	32.7	31.5	29.0	25.7
50°	124.3	121.3	117.9	114.6	117.9	121.3	124.3	121.7	115.4	105.1	93.3
47.5°	277.2	274.8	269.7	263.1	269.7	274.8	277.2	271.7	262.5	248.7	238.4
45°	468.5	482.1	488.2	484.8	488.2	482.1	468.5	448.6	434.1	421.8	410.6
42.5°	760.8	772.7	773.8	756.1	773.8	772.7	760.8	742.3	687.9	619.6	571.7
40°	1505.5	1609.8	1645.6	1538.0	1645.6	1609.8	1505.5	1380.4	1207.3	1012.1	881.4
37.5°	2668.3	3078.2	3420.1	3433.3	3420.1	3078.2	2668.3	2324.7	2039.7	1757.4	1505.7
35°	4324.4	4746.1	4950.0	4941.4	4950.0	4746.1	4324.4	3703.9	3126.5	2732.4	2366.1
32.5°	6078.1	6397.6	6601.8	6552.6	6601.8	6397.6	6078.1	5444.4	4562.5	3838.4	3381.0
30°	8024.9	8321.4	8559.3	8555.7	8559.3	8321.4	8024.9	7489.1	6738.8	5830.3	4804.0
27.5°	11088.9	11699.8	12185.2	12102.9	12185.2	11699.8	11088.9	10161.2	9021.5	8040.5	6936.3
25°	15825.8	16943.1	17733.1	17570.5	17733.1	16943.1	15825.8	14429.1	12773.2	11297.2	9618.9
22.5°	22823.5	24256.8	24856.1	24380.8	24856.1	24256.8	22823.5	21113.0	18809.2	16219.4	13888.0
20°	33779.2	36436.6	38088.7	37103.5	38088.7	36436.6	33779.2	30501.6	27061.3	22981.2	19388.6
17.5°	50704.7	56469.6	61024.6	60899.1	61024.6	56469.6	50704.7	43412.6	37778.6	31686.1	26130.6
15°	71101.5	77663.2	82715.5	83299.8	82715.5	77663.2	71101.5	61621.5	50733.0	41776.7	33652.2
12.5°	89364.8	96038.0	100982.2	102404.9	100982.2	96038.0	89364.8	78437.7	65787.3	52278.7	41140.4
10°	102380.9	109040.3	113825.9	115513.5	113825.9	109040.3	102380.9	92781.2	78898.5	63249.4	48245.5
7.5°	111929.4	119154.2	122741.6	124575.1	122741.6	119154.2	111929.4	102074.5	89343.4	73292.6	56784.3
5°	118800.2	125514.8	128985.2	131207.0	128985.2	125514.8	118800.2	109044.2	97083.4	81362.6	63398.1
2.5°	123131.4	129470.6	133638.1	135631.0	133638.1	129470.6	123131.4	114091.1	101826.3	86332.7	67487.9
0°	124529.3	130615.0	135286.2	137072.6	135286.2	130615.0	124529.3	115943.4	103442.4	88354.4	69292.7
-2.5°	123879.1	129840.5	133566.1	134288.3	133566.1	129840.5	123879.1	115775.1	103993.7	88702.6	70233.3
-5°	120495.3	125989.8	129429.9	129995.2	129429.9	125989.8	120495.3	112518.3	101064.8	85379.7	67542.5
-7.5°	114661.6	120142.6	122986.1	123823.3	122986.1	120142.6	114661.6	106402.2	95314.3	79598.9	62487.1
-10°	106203.4	111498.6	114537.7	115258.5	114537.7	111498.6	106203.4	98001.0	85680.9	70988.0	54980.6
-12.5°	94661.9	100310.9	103712.3	104461.6	103712.3	100310.9	94661.9	85684.7	74136.5	59966.2	48525.5
-15°	79696.1	85506.8	89848.9	90899.4	89848.9	85506.8	79696.1	71340.4	60084.0	50302.5	41533.6
-17.5°	62445.0	68259.7	72161.5	72906.4	72161.5	68259.7	62445.0	55025.5	48412.3	41214.1	34884.5
-20°	47587.2	51326.9	53529.0	53912.5	53529.0	51326.9	47587.2	43316.6	38771.1	33633.5	28727.3



REPORT NUMBER: P735973 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	36877.2	39390.7	40731.4	40920.6	40731.4	39390.7	36877.2	34112.2	30728.8	27009.5	23220.7
-25°	28576.3	30402.5	31401.2	31567.4	31401.2	30402.5	28576.3	26349.6	23866.3	21472.3	18745.9
-27.5°	21941.7	23076.1	24005.3	23811.9	24005.3	23076.1	21941.7	20433.8	18759.5	17313.8	15594.4
-30°	17362.2	18089.8	18638.6	18494.8	18638.6	18089.8	17362.2	16406.9	15244.3	14053.9	12699.9
-32.5°	14052.4	14622.4	15008.2	15111.0	15008.2	14622.4	14052.4	13230.5	12188.7	11082.5	9966.2
-35°	10922.2	11388.0	11655.3	11759.1	11655.3	11388.0	10922.2	10251.8	9397.5	8292.6	7355.1
-37.5°	7974.3	8382.8	8637.9	8726.6	8637.9	8382.8	7974.3	7414.4	6660.2	5733.4	5009.1
-40°	5307.1	5621.9	5830.9	5911.8	5830.9	5621.9	5307.1	4891.7	4349.3	3715.3	3224.0
-42.5°	3281.3	3428.7	3522.1	3551.3	3522.1	3428.7	3281.3	3088.0	2839.8	2516.7	2251.3
-45°	2334.1	2374.8	2398.1	2402.5	2398.1	2374.8	2334.1	2276.9	2202.9	2113.2	2014.6
-47.5°	2080.0	2112.1	2128.6	2129.3	2128.6	2112.1	2080.0	2030.9	1967.9	1892.7	1815.9
-50°	1863.8	1893.5	1908.6	1909.6	1908.6	1893.5	1863.8	1820.9	1768.8	1706.6	1644.8
-52.5°	1675.3	1699.0	1710.0	1710.2	1710.0	1699.0	1675.3	1641.4	1600.0	1547.7	1497.5
-55°	1518.8	1537.2	1544.0	1542.7	1544.0	1537.2	1518.8	1491.9	1459.1	1415.1	1372.7
-57.5°	1390.7	1408.8	1414.4	1412.5	1414.4	1408.8	1390.7	1367.1	1338.8	1301.2	1262.9
-60°	1265.1	1284.4	1291.7	1291.1	1291.7	1284.4	1265.1	1237.8	1202.7	1159.7	1112.3
-62.5°	1066.5	1081.4	1089.3	1091.8	1089.3	1081.4	1066.5	1043.1	1010.2	971.6	928.5
-65°	855.3	867.0	873.4	875.4	873.4	867.0	855.3	836.8	809.8	778.8	744.3
-67.5°	663.8	672.3	676.4	677.4	676.4	672.3	663.8	650.6	630.2	606.8	580.3
-70°	513.4	520.4	523.6	524.9	523.6	520.4	513.4	503.3	487.0	469.1	449.6
-72.5°	404.9	410.5	412.7	413.6	412.7	410.5	404.9	397.3	384.1	370.3	356.1
-75°	327.0	330.3	331.6	332.3	331.6	330.3	327.0	322.2	312.3	301.9	290.9
-77.5°	275.7	279.3	280.6	281.4	280.6	279.3	275.7	271.6	264.0	256.0	246.4
-80°	243.9	246.4	247.4	248.2	247.4	246.4	243.9	241.0	234.4	227.6	220.1
-82.5°	221.4	224.8	225.0	225.1	225.0	224.8	221.4	217.9	212.3	206.5	200.0
-85°	200.0	202.6	203.1	203.4	203.1	202.6	200.0	197.4	192.3	187.1	181.6
-87.5°	181.3	183.7	183.8	183.8	183.8	183.7	181.3	178.8	174.3	169.7	164.8
-90°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.1	1.4	1.4



REPORT NUMBER: P735973 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	148.5	145.5	142.4	140.4	138.3	135.3	132.2	127.8	123.4	119.0	114.6
87.5°	2.0	2.0	1.9	2.0	2.0	2.3	2.6	2.6	2.7	2.7	2.7
85°	2.0	2.3	2.6	2.5	2.5	2.6	2.7	2.9	3.1	3.0	3.0
82.5°	2.6	2.6	2.7	2.7	2.7	2.9	3.0	3.2	3.4	3.5	3.5
80°	2.7	2.7	2.7	2.9	3.1	3.2	3.4	3.5	3.5	3.8	4.0
77.5°	2.7	2.7	2.8	3.1	3.4	3.5	3.5	3.8	4.0	4.0	4.1
75°	4.0	3.8	3.7	3.8	3.9	4.0	4.0	4.0	4.2	4.3	4.2
72.5°	7.2	7.0	6.7	6.3	6.0	6.1	6.1	5.8	5.4	5.0	4.6
70°	10.9	11.3	11.6	11.6	11.6	11.6	10.8	9.6	8.5	8.0	6.9
67.5°	14.5	14.9	15.9	17.4	17.2	17.0	16.3	15.3	13.7	12.2	10.0
65°	16.5	17.2	17.3	17.2	18.4	19.5	20.8	20.3	20.2	18.0	14.2
62.5°	14.1	15.6	15.1	14.8	16.4	19.6	24.7	27.0	28.2	26.3	21.5
60°	8.3	9.3	9.9	11.0	13.0	18.5	26.5	32.4	37.4	34.0	28.4
57.5°	4.1	4.9	6.2	8.2	10.3	17.6	26.8	34.8	40.5	38.3	34.7
55°	6.7	7.7	8.4	9.2	10.1	17.8	26.0	34.2	40.4	39.7	36.6
52.5°	20.9	24.3	24.1	19.8	20.4	25.0	26.9	35.5	41.1	41.8	39.4
50°	86.5	89.8	78.2	64.6	64.6	51.1	53.2	51.1	49.4	50.7	45.8
47.5°	230.2	218.7	192.9	172.4	154.3	134.1	124.3	100.8	95.9	73.9	70.1
45°	393.6	375.9	345.6	311.4	282.0	255.8	231.6	212.5	176.2	156.9	110.6
42.5°	547.1	519.2	483.9	446.8	411.7	372.8	343.9	321.5	296.8	259.7	219.1
40°	776.4	653.2	608.5	564.8	518.1	472.8	440.0	406.2	388.7	359.6	320.3
37.5°	1215.2	946.3	812.9	681.2	623.9	573.5	535.5	500.8	467.3	441.7	404.7
35°	1934.6	1549.0	1193.5	949.7	756.8	689.4	639.5	599.9	558.6	517.2	482.2
32.5°	2838.6	2360.2	1855.2	1418.0	1067.4	849.5	762.3	706.0	653.1	602.1	552.1
30°	3925.5	3325.7	2686.5	2096.5	1612.5	1194.1	920.6	825.8	754.4	690.1	624.5
27.5°	5799.3	4541.6	3767.1	3028.3	2414.9	1830.7	1302.5	959.2	864.4	785.7	707.8
25°	8366.7	6944.6	5544.8	4540.9	3718.6	2720.1	1872.7	1295.2	996.8	886.3	793.5
22.5°	11580.7	9667.4	7914.3	6372.6	5172.0	3885.9	2679.3	1667.2	1139.6	992.7	883.5
20°	15644.2	12516.5	10324.6	8350.2	6621.7	4993.2	3466.5	2231.8	1453.5	1106.4	971.1
17.5°	21010.7	16394.3	13022.0	10483.6	8286.4	6360.4	4514.9	2938.9	1747.4	1222.1	1057.1
15°	26682.3	20793.0	16209.8	12619.2	9807.2	7569.1	5580.9	3647.2	2157.6	1426.9	1153.2
12.5°	32750.3	25614.8	19485.6	14789.5	11245.7	8628.7	6454.6	4419.9	2711.1	1667.5	1234.8
10°	37857.9	29752.1	22832.7	17309.0	13114.8	9807.9	7201.0	5031.6	3153.4	1877.7	1306.6
7.5°	43219.7	33238.2	25384.1	19103.5	14556.1	11053.9	7969.9	5486.0	3492.6	2034.2	1361.8
5°	46876.3	35551.2	27115.9	20323.9	15465.5	11903.6	8695.2	5801.4	3707.6	2141.1	1408.1
2.5°	49168.5	36808.2	28052.0	21232.8	15944.5	12330.9	9263.3	6200.4	3889.3	2236.4	1454.5
0°	50482.6	37962.0	28828.5	21801.3	16210.2	12562.7	9558.0	6663.1	4011.7	2300.2	1491.8
-2.5°	51575.3	38170.7	28651.1	21362.6	16045.7	12450.8	9492.8	6839.4	4276.2	2364.7	1531.7
-5°	50388.8	37646.0	28015.7	20823.5	15819.8	12274.6	9355.6	6788.0	4349.0	2392.5	1559.9
-7.5°	47581.3	36082.0	26962.4	20035.1	15369.4	11979.5	9099.9	6497.1	4169.7	2405.1	1597.8
-10°	43340.1	33563.8	25187.6	18966.2	14722.9	11523.7	8723.9	6162.5	3927.7	2353.4	1622.2
-12.5°	38853.8	30425.6	23044.0	17472.4	13826.0	10878.8	8189.4	5702.5	3595.2	2235.8	1640.6
-15°	34030.6	26924.5	20876.3	16217.6	12777.1	10038.5	7509.2	5115.2	3165.5	2065.8	1643.7
-17.5°	29030.0	23408.9	18334.4	14566.7	11600.6	9050.4	6674.5	4524.3	2853.2	1938.9	1634.7
-20°	23994.4	19908.2	16242.8	13014.5	10255.7	7852.4	5679.1	3807.7	2534.0	1907.9	1630.8



REPORT NUMBER: P735973 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	19701.6	16957.1	14159.3	11353.3	8941.0	6650.9	4668.3	3094.3	2148.9	1840.7	1606.7
-25°	16560.7	14332.2	12047.0	9794.8	7532.2	5402.9	3652.7	2585.4	2019.6	1778.5	1562.4
-27.5°	13769.1	11842.4	9935.5	7973.0	5998.5	4210.5	2901.3	2131.2	1890.3	1695.5	1517.5
-30°	11157.9	9497.7	7817.6	6100.4	4546.6	3165.4	2281.7	1986.1	1782.0	1606.7	1447.1
-32.5°	8641.8	7254.1	5780.1	4425.3	3244.6	2423.8	2062.9	1846.6	1677.8	1523.2	1380.9
-35°	6256.0	5168.2	3995.2	3112.9	2375.3	2107.0	1908.3	1737.5	1580.6	1439.4	1313.4
-37.5°	4185.2	3402.0	2814.7	2278.2	2104.2	1934.6	1781.5	1630.6	1484.8	1363.8	1252.8
-40°	2799.2	2333.0	2201.9	2059.2	1926.9	1794.3	1658.8	1522.6	1403.5	1292.8	1195.3
-42.5°	2161.4	2067.6	1981.6	1881.9	1774.4	1659.5	1540.2	1428.6	1324.2	1230.2	1142.9
-45°	1939.3	1867.1	1798.2	1722.2	1631.3	1535.2	1433.7	1340.9	1251.9	1170.6	1090.9
-47.5°	1750.9	1693.4	1634.6	1576.2	1502.2	1423.4	1343.2	1261.4	1186.5	1107.4	994.2
-50°	1587.1	1541.2	1491.5	1443.0	1390.5	1330.7	1261.4	1191.5	1106.1	999.0	892.9
-52.5°	1451.5	1412.0	1371.5	1334.5	1294.6	1244.7	1183.0	1087.4	989.0	886.7	787.1
-55°	1335.5	1302.1	1268.6	1239.6	1202.1	1129.6	1051.1	959.1	863.2	768.9	683.3
-57.5°	1233.8	1197.0	1147.9	1099.9	1051.2	982.9	905.4	819.1	737.0	658.0	580.5
-60°	1074.3	1032.9	983.8	933.7	884.4	824.1	759.2	689.2	616.2	551.3	486.8
-62.5°	891.0	851.7	808.9	766.2	726.4	679.8	623.0	567.0	507.9	450.4	403.9
-65°	713.2	681.9	646.5	612.6	581.3	546.9	499.2	456.6	414.6	371.7	331.2
-67.5°	555.6	531.1	503.6	476.7	456.7	435.3	403.6	369.0	338.4	310.6	284.8
-70°	431.5	415.5	397.9	378.7	363.4	350.1	330.5	307.3	283.3	261.7	241.8
-72.5°	343.1	333.0	321.8	309.6	297.4	287.5	274.0	257.0	239.2	220.1	204.5
-75°	280.5	273.0	264.9	256.5	247.7	238.2	229.5	219.3	208.4	196.8	186.0
-77.5°	237.6	232.4	227.2	222.6	217.8	212.5	205.9	196.9	188.3	179.3	170.9
-80°	212.9	208.6	204.3	200.8	197.1	192.7	187.6	180.1	172.5	164.8	157.5
-82.5°	193.7	190.1	186.4	183.1	179.7	175.6	171.2	164.8	158.4	151.6	144.9
-85°	176.1	172.8	169.4	166.4	163.3	159.7	155.9	150.4	144.8	138.7	132.6
-87.5°	159.9	156.7	153.4	151.2	148.8	145.5	142.1	137.4	132.7	127.5	122.3
-90°	1.4	1.4	1.4	1.7	2.0	2.0	2.0	2.4	2.7	2.7	2.7



REPORT NUMBER: P735973 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	110.6	106.5	102.4	98.3	94.9	91.5	87.8	84.1	79.0	73.9	66.1
87.5°	2.9	3.2	3.5	3.8	3.8	3.8	4.1	4.4	4.3	4.3	4.6
85°	3.3	3.6	3.8	4.1	4.1	4.1	4.4	4.6	4.6	4.5	4.8
82.5°	3.8	4.1	4.0	4.1	4.3	4.4	4.7	4.9	4.9	4.8	5.0
80°	4.0	4.1	4.2	4.3	4.5	4.7	5.0	5.2	5.3	5.2	5.4
77.5°	4.1	4.2	4.5	4.6	4.6	4.8	5.1	5.5	5.7	5.7	5.8
75°	4.1	4.2	4.5	4.8	4.8	4.8	5.2	5.6	6.0	6.2	6.2
72.5°	4.5	4.5	4.7	4.9	5.1	5.3	5.4	5.7	6.2	6.5	6.6
70°	5.7	5.1	5.2	5.4	5.6	5.8	6.0	6.2	6.5	6.8	7.0
67.5°	7.5	6.7	6.2	6.1	6.3	6.5	6.7	6.9	7.0	7.2	7.4
65°	11.8	9.5	7.5	7.4	7.3	7.3	7.4	7.7	7.6	8.0	7.8
62.5°	17.0	13.6	11.4	9.5	8.9	9.3	8.2	9.2	8.4	8.9	8.7
60°	23.0	18.3	15.9	14.0	12.5	12.3	11.7	10.9	10.7	10.0	9.8
57.5°	28.1	22.5	21.1	19.0	18.1	16.9	16.1	14.8	13.3	12.5	11.1
55°	32.1	27.4	26.8	25.0	24.6	22.7	21.7	19.8	16.9	15.5	12.6
52.5°	34.4	33.8	33.2	33.1	32.6	29.9	28.7	25.3	22.7	18.7	15.6
50°	40.1	42.4	41.5	43.5	42.0	40.5	36.3	32.8	29.0	22.9	18.9
47.5°	59.1	60.9	56.3	57.7	54.9	52.8	47.5	41.3	35.7	29.1	22.4
45°	109.2	91.5	86.1	79.6	73.1	70.3	60.9	50.4	44.0	35.7	25.9
42.5°	178.7	154.1	137.4	105.9	103.5	91.7	77.1	65.0	52.8	42.5	31.0
40°	273.4	240.6	204.5	171.1	141.6	116.2	101.1	81.8	61.9	50.1	37.1
37.5°	364.2	327.0	290.2	245.0	191.7	157.2	128.5	100.1	73.8	58.8	43.4
35°	439.3	403.0	368.3	319.8	264.4	200.3	158.5	122.3	90.7	67.8	49.8
32.5°	506.9	465.0	424.0	384.5	324.6	244.3	194.9	147.5	108.1	77.2	56.2
30°	571.5	520.6	472.8	434.6	372.4	293.9	230.9	171.6	125.7	86.9	62.7
27.5°	638.6	576.5	519.9	475.5	411.1	336.4	259.3	194.5	143.7	97.6	69.8
25°	710.5	637.5	574.8	518.4	450.1	368.1	284.6	216.2	162.3	109.9	76.6
22.5°	786.6	698.6	627.8	564.3	493.2	398.9	309.3	238.5	176.8	121.4	83.1
20°	858.6	755.5	676.1	602.5	534.5	433.8	334.6	256.4	190.4	132.0	89.2
17.5°	930.3	810.3	713.5	636.0	569.6	469.9	360.6	273.2	202.9	141.9	95.0
15°	997.8	863.8	751.1	665.7	597.8	503.8	386.0	289.0	214.4	150.8	100.7
12.5°	1060.4	914.2	788.3	691.2	618.7	534.3	410.3	303.7	224.8	159.8	106.5
10°	1116.5	961.6	824.5	715.6	636.9	561.3	433.2	319.8	238.3	168.7	112.0
7.5°	1162.7	1004.8	858.0	738.7	653.3	584.5	457.9	340.5	251.6	176.7	117.0
5°	1202.2	1043.9	891.2	765.8	672.3	603.3	480.4	360.0	263.9	183.9	121.7
2.5°	1238.1	1078.2	922.4	791.5	690.0	618.3	499.9	377.9	275.0	190.1	125.8
0°	1267.4	1106.7	949.4	814.4	705.9	630.0	516.7	394.0	284.8	195.3	129.5
-2.5°	1293.9	1126.9	971.6	838.4	732.4	647.5	526.9	402.1	292.8	202.2	134.0
-5°	1313.3	1141.7	989.6	859.5	756.1	661.5	534.3	407.9	299.2	207.9	137.8
-7.5°	1343.9	1158.8	1005.7	877.9	776.5	671.8	538.6	411.6	303.9	212.3	141.1
-10°	1367.7	1174.6	1020.6	893.2	789.8	680.4	540.8	413.2	306.8	215.4	143.8
-12.5°	1386.3	1185.9	1030.5	904.5	800.4	687.8	546.6	415.0	307.9	217.1	145.8
-15°	1400.3	1202.5	1040.9	912.2	809.2	691.5	548.2	415.0	306.6	216.8	147.1
-17.5°	1404.8	1208.9	1046.1	918.3	815.4	691.8	545.1	411.5	303.2	214.7	148.0
-20°	1407.0	1211.5	1044.2	918.8	817.3	683.6	537.2	404.4	297.7	211.2	148.4



REPORT NUMBER: P735973 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1400.5	1212.6	1050.9	917.9	810.7	670.9	524.3	393.8	290.1	206.5	148.2
-25°	1373.1	1207.0	1052.2	921.1	793.5	652.7	510.5	382.8	280.3	200.5	147.3
-27.5°	1340.2	1185.8	1045.8	917.1	775.9	631.5	495.5	373.4	272.0	193.3	145.8
-30°	1303.8	1161.5	1030.6	902.2	752.3	608.5	477.5	361.1	264.2	188.9	143.6
-32.5°	1252.1	1133.1	1010.6	871.1	723.0	581.5	455.8	345.7	254.4	186.4	141.8
-35°	1202.0	1098.6	986.0	833.3	688.6	554.0	432.3	327.1	242.6	182.9	139.6
-37.5°	1148.9	1055.7	937.9	789.4	648.3	522.3	408.4	309.3	228.7	178.3	136.8
-40°	1101.0	998.7	871.3	739.6	606.3	485.9	381.4	291.9	219.8	172.6	133.2
-42.5°	1050.3	922.1	800.7	681.1	560.3	450.4	352.2	272.5	212.5	167.2	128.9
-45°	967.2	843.5	725.9	618.0	510.6	411.2	327.9	252.8	203.7	161.3	125.2
-47.5°	879.4	762.2	651.4	551.8	462.3	371.4	299.7	241.3	193.7	154.5	123.0
-50°	788.0	680.6	578.2	489.5	407.2	337.7	272.8	228.2	184.7	146.8	120.4
-52.5°	693.6	599.5	509.0	427.0	362.0	301.7	254.3	213.1	174.6	141.6	117.4
-55°	599.5	521.2	440.6	373.1	317.9	274.9	234.3	198.6	163.4	137.4	114.2
-57.5°	511.6	443.0	381.4	324.6	282.6	248.9	215.3	183.1	156.3	132.6	112.4
-60°	426.9	377.2	325.3	286.2	252.7	224.0	196.5	169.3	150.0	127.8	110.0
-62.5°	357.4	316.4	285.7	253.0	224.7	200.9	178.4	160.5	142.7	124.4	107.3
-65°	302.8	276.1	249.0	223.6	199.0	180.3	167.8	151.4	136.9	120.6	104.2
-67.5°	259.8	238.3	217.2	194.9	179.7	168.0	156.5	144.1	131.3	116.5	100.8
-70°	221.9	202.8	190.0	178.4	166.5	156.1	148.0	137.6	125.5	112.1	97.2
-72.5°	193.7	183.7	173.9	163.7	155.4	147.6	140.1	130.8	119.6	107.5	93.3
-75°	176.3	168.4	161.0	153.4	146.1	139.0	132.0	123.8	113.6	102.6	89.3
-77.5°	164.0	157.2	150.0	143.1	136.8	130.3	123.9	116.7	107.3	97.5	85.1
-80°	151.7	145.7	139.4	133.3	127.5	121.5	115.8	109.4	100.9	92.2	80.7
-82.5°	139.4	134.0	128.8	123.5	118.4	113.3	107.8	102.1	94.4	86.7	76.6
-85°	128.0	123.4	118.5	113.6	109.3	104.9	100.2	95.3	88.9	82.5	73.2
-87.5°	118.3	114.3	110.0	105.7	102.0	98.3	94.0	89.8	84.0	78.3	69.7
-90°	2.7	2.7	3.1	3.4	3.4	3.4	3.8	4.1	4.1	4.1	4.4



REPORT NUMBER: P735973 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	58.3	48.5	38.7	27.8	17.0	11.5	6.1
87.5°	4.9	4.9	4.9	4.9	4.8	5.5	6.1
85°	5.1	5.2	5.2	5.1	5.0	5.6	6.1
82.5°	5.3	5.4	5.4	5.2	5.1	5.8	6.1
80°	5.5	5.6	5.7	5.4	5.2	5.9	6.1
77.5°	5.8	5.9	5.9	5.6	5.4	6.0	6.1
75°	6.2	6.2	6.1	5.8	5.5	6.1	6.1
72.5°	6.6	6.5	6.4	6.0	5.7	6.3	6.1
70°	7.0	6.8	6.7	6.2	5.9	6.4	6.1
67.5°	7.4	7.1	6.9	6.4	6.0	6.5	6.1
65°	7.9	7.6	7.2	6.7	6.2	6.7	6.1
62.5°	8.5	8.2	7.5	7.0	6.4	6.8	6.1
60°	9.1	8.8	7.8	7.2	6.6	7.0	6.1
57.5°	10.4	9.5	8.5	7.5	7.0	7.1	6.1
55°	11.8	10.2	9.3	7.8	7.4	7.2	6.1
52.5°	13.3	11.0	10.0	8.1	7.8	7.4	6.1
50°	14.9	12.6	10.9	8.4	8.3	7.5	6.1
47.5°	16.7	14.2	11.7	8.8	8.7	7.7	6.1
45°	19.8	15.8	12.6	9.5	9.2	7.8	6.1
42.5°	23.0	17.6	13.6	10.2	9.7	8.0	6.1
40°	26.3	19.4	14.7	11.2	10.3	8.1	6.1
37.5°	29.8	21.3	16.2	12.4	10.8	8.3	6.1
35°	33.2	23.8	17.6	13.6	11.4	8.4	6.1
32.5°	37.3	26.6	19.1	14.8	12.0	8.6	6.1
30°	42.4	29.3	20.5	16.0	12.6	8.7	6.1
27.5°	47.4	32.0	22.5	17.3	13.2	8.9	6.1
25°	52.3	34.6	24.5	18.5	13.8	9.0	6.1
22.5°	57.0	37.3	26.4	19.7	14.5	9.1	6.1
20°	61.5	40.4	28.4	21.0	15.1	9.3	6.1
17.5°	66.2	43.4	30.2	22.2	15.7	9.4	6.1
15°	70.8	46.3	32.0	23.4	16.3	9.5	6.1
12.5°	75.2	49.1	33.8	24.5	17.0	9.7	6.1
10°	79.2	51.8	35.4	25.7	17.5	9.8	6.1
7.5°	83.0	54.4	37.1	26.8	18.1	9.9	6.1
5°	86.4	56.7	38.6	27.8	18.7	10.0	6.1
2.5°	89.5	59.0	40.0	28.8	19.2	10.1	6.1
0°	92.2	61.0	41.4	29.8	19.7	10.2	6.1
-2.5°	95.4	63.5	43.3	31.1	20.5	10.6	6.1
-5°	98.2	65.7	45.1	32.3	21.2	10.9	6.1
-7.5°	100.6	67.8	46.9	33.4	21.8	11.3	6.1
-10°	102.6	69.6	48.5	34.5	22.5	11.6	6.1
-12.5°	104.1	71.3	49.9	35.5	23.1	11.9	6.1
-15°	105.3	72.7	51.3	36.4	23.6	12.2	6.1
-17.5°	105.9	73.9	52.5	37.2	24.1	12.5	6.1
-20°	106.5	74.8	53.5	37.9	24.6	12.8	6.1



REPORT NUMBER: P735973 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	107.0	75.5	54.4	38.6	25.0	13.0	6.1
-25°	107.0	76.4	55.2	39.1	25.3	13.3	6.1
-27.5°	106.6	77.2	55.8	39.6	25.6	13.5	6.1
-30°	105.6	77.7	56.2	39.9	25.9	13.7	6.1
-32.5°	104.2	78.0	57.0	40.2	26.1	13.8	6.1
-35°	103.6	78.0	57.6	40.3	26.2	14.0	6.1
-37.5°	103.3	78.0	58.0	40.4	26.3	14.1	6.1
-40°	102.7	78.3	58.3	40.3	26.4	14.2	6.1
-42.5°	101.6	78.5	58.5	40.3	26.4	14.3	6.1
-45°	100.0	78.4	58.6	40.4	26.3	14.4	6.1
-47.5°	98.2	78.1	58.5	40.3	26.2	14.4	6.1
-50°	97.2	77.6	58.3	40.3	26.0	14.4	6.1
-52.5°	96.2	76.9	57.9	40.3	25.8	14.4	6.1
-55°	94.9	76.0	57.3	40.1	25.5	14.3	6.1
-57.5°	93.3	74.8	56.6	39.8	25.2	14.3	6.1
-60°	91.6	73.5	55.7	39.4	24.8	14.2	6.1
-62.5°	89.5	71.9	54.9	38.9	24.5	14.1	6.1
-65°	87.2	70.1	54.0	38.3	24.0	13.9	6.1
-67.5°	84.7	68.3	53.0	37.6	23.5	13.8	6.1
-70°	81.9	66.5	51.8	36.8	23.0	13.6	6.1
-72.5°	79.1	64.5	50.5	36.0	22.4	13.4	6.1
-75°	76.1	62.3	49.0	35.1	21.7	13.2	6.1
-77.5°	72.8	59.9	47.5	34.0	21.0	12.9	6.1
-80°	69.4	57.7	46.0	33.0	20.3	12.7	6.1
-82.5°	66.7	55.5	44.3	31.8	19.5	12.4	6.1
-85°	64.0	53.3	42.5	30.5	18.7	12.1	6.1
-87.5°	61.2	50.9	40.7	29.2	17.9	11.9	6.1
-90°	4.7	4.7	4.7	4.7	4.7	5.4	6.1

(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

