

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: P735956 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-80-4S-VHE**

Issue Date: 1/29/2024

Test Information

Test Method: LM-79-08
Report Number: P735956 (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-08-0320N-40-80-4S-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 4S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

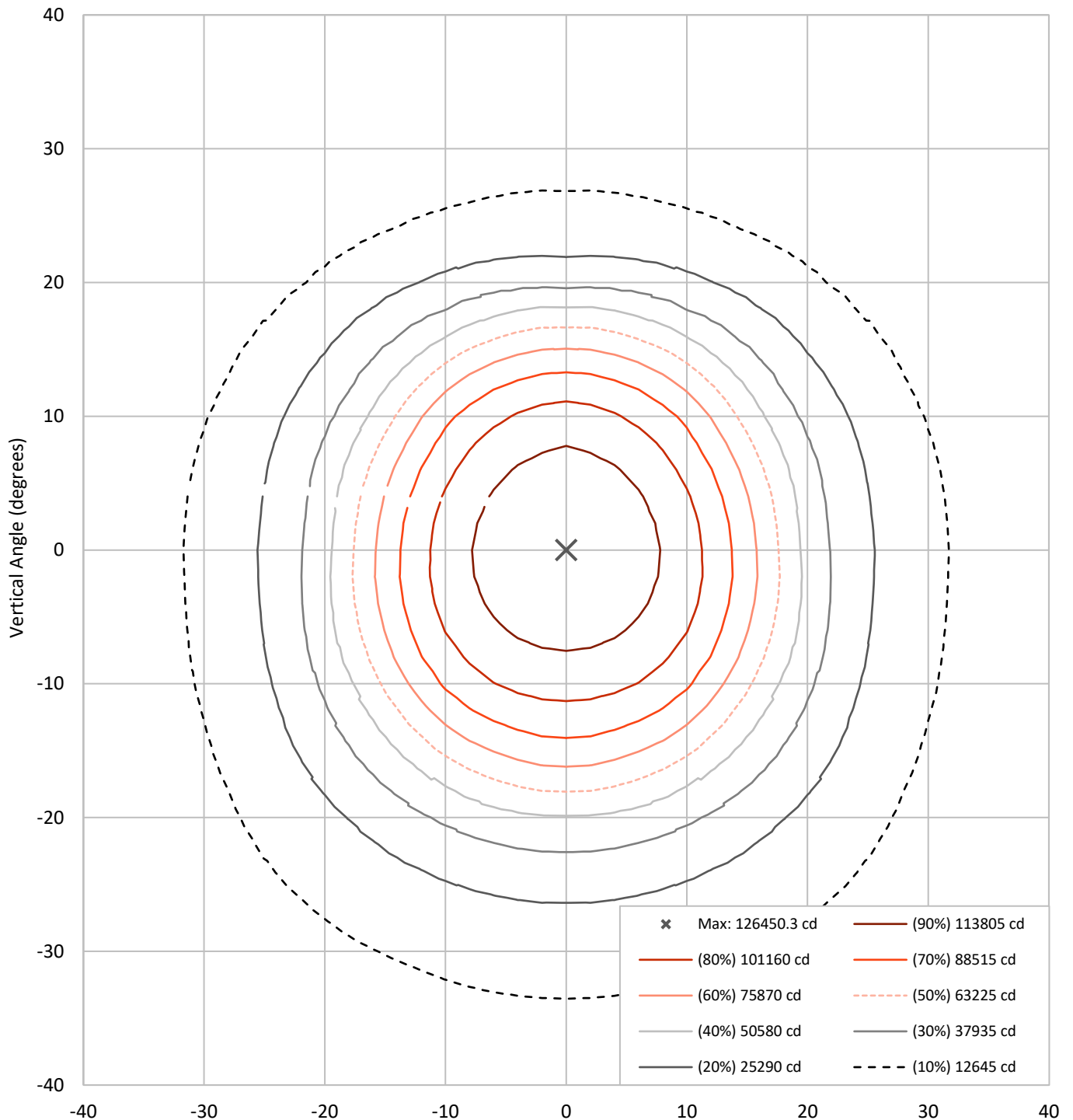
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	52454.1 lumens	Max Intensity:	126450.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	151.7 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:	28153.7 lumens	Field Lumens:	45814.5 lumens
Beam Efficiency:	53.7%	Field Efficiency:	87.3%

Input Watts (W): 345.8
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: P735956 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-VHE

Iso-Candela Plot





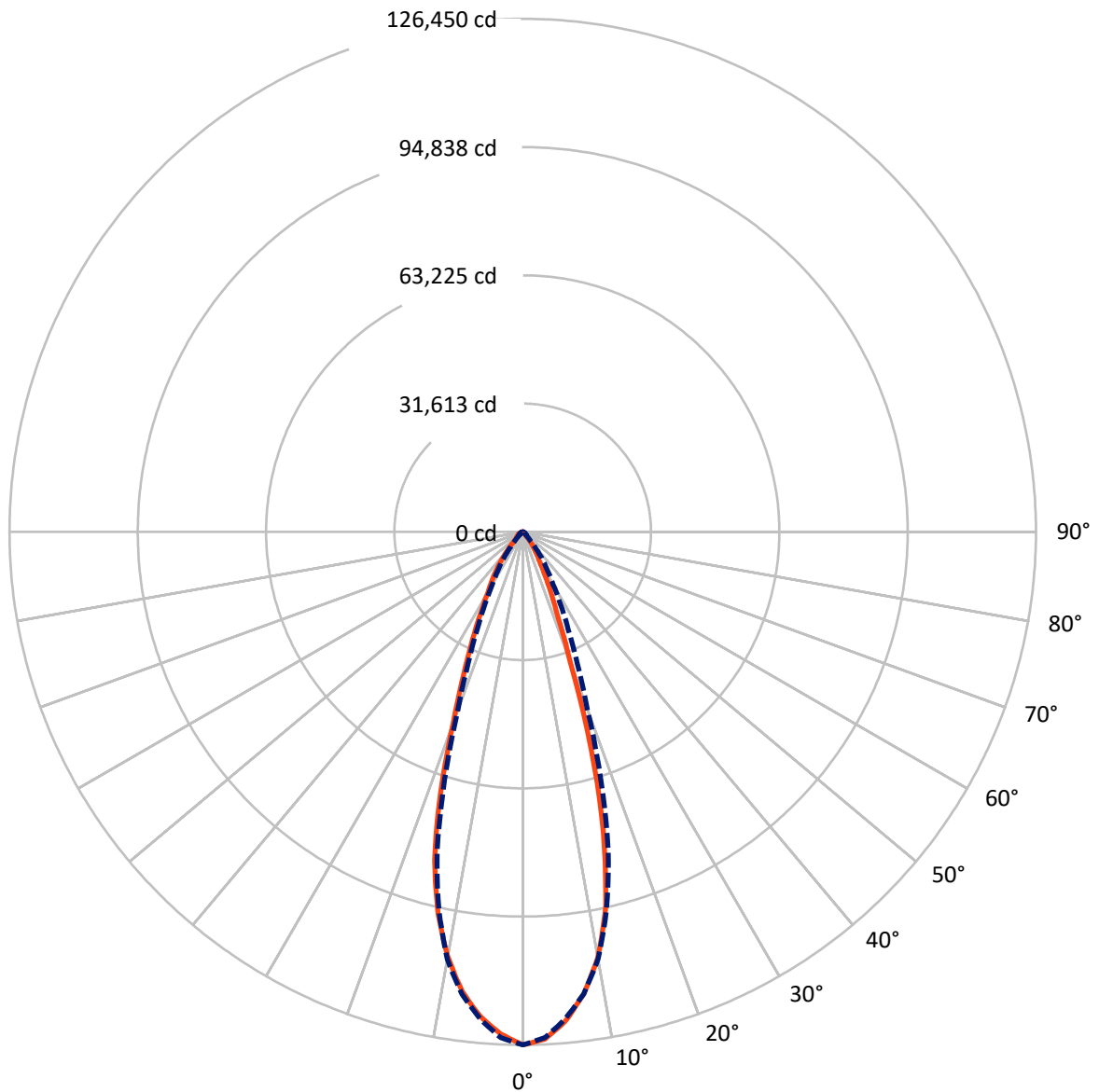
REPORT NUMBER: P735956 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-VHE

Lumen Table

90	0.2	0.6	1.0	1.4	1.5	1.4	1.0	0.6	0.2										
80	0.2	0.6	1.0	1.4	1.5	1.4	1.0	0.6	0.2										
70	0.2	0.1	0.1	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.1	0.1	0.2				
60		0.2	0.4	0.7	0.7	0.5	0.6	0.7	0.7	0.6	0.5	0.7	0.7	0.4		0.2			
50	0.5	0.7	1.5	3.0	5.5	8.7	12.7	16.4	16.4	12.7	8.7	5.5	3.0	1.5	0.7	0.5			
40		1.6	5.0	9.5	15.7	36.2	81.0	131.2	131.2	81.0	36.2	15.7	9.5	5.0	1.6				
30	1.1	2.8	8.3	16.1	50.6	155.7	339.8	515.3	515.3	339.8	155.7	50.6	16.1	8.3	2.8	1.1			
20		3.7	10.9	25.8	131.8	437.0	1167.5	2074.6	2074.6	1167.5	437.0	131.8	25.8	10.9	3.7				
10	1.7	4.6	12.8	35.8	206.2	717.2	2122.8	3399.2	3399.2	2122.8	717.2	206.2	35.8	12.8	4.6	1.7			
0		5.1	14.2	40.0	221.0	753.3	2225.4	3426.1	3426.1	2225.4	753.3	221.0	40.0	14.2	5.1				
-10	1.9	5.2	15.0	36.8	176.4	556.4	1400.9	2301.5	2301.5	1400.9	556.4	176.4	36.8	15.0	5.2	1.9			
-20		4.9	15.0	31.6	97.1	309.0	606.7	876.2	876.2	606.7	309.0	97.1	31.6	15.0	4.9				
-30	1.8	4.2	13.5	26.4	46.6	114.7	231.0	319.4	319.4	231.0	114.7	46.6	26.4	13.5	4.2	1.8			
-40		3.3	10.1	21.1	33.3	46.3	63.1	80.8	80.8	63.1	46.3	33.3	21.1	10.1	3.3				
-50	1.6	2.4	6.3	13.8	23.7	32.0	38.6	43.3	43.3	38.6	32.0	23.7	13.8	6.3	2.4	1.6			
-60		1.8	3.7	7.0	11.9	16.9	21.5	24.5	24.5	21.5	16.9	11.9	7.0	3.7	1.8				
-70	1.1	6.6	15.0	24.2	29.7	24.2	15.0	6.6	1.1						1.1				
-80		1.1	6.6	15.0	24.2	29.7	24.2	15.0	6.6	1.1									
-90	1.1	6.6	15.0	24.2	29.7	24.2	15.0	6.6	1.1						1.1				

REPORT NUMBER: P735956 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-VHE

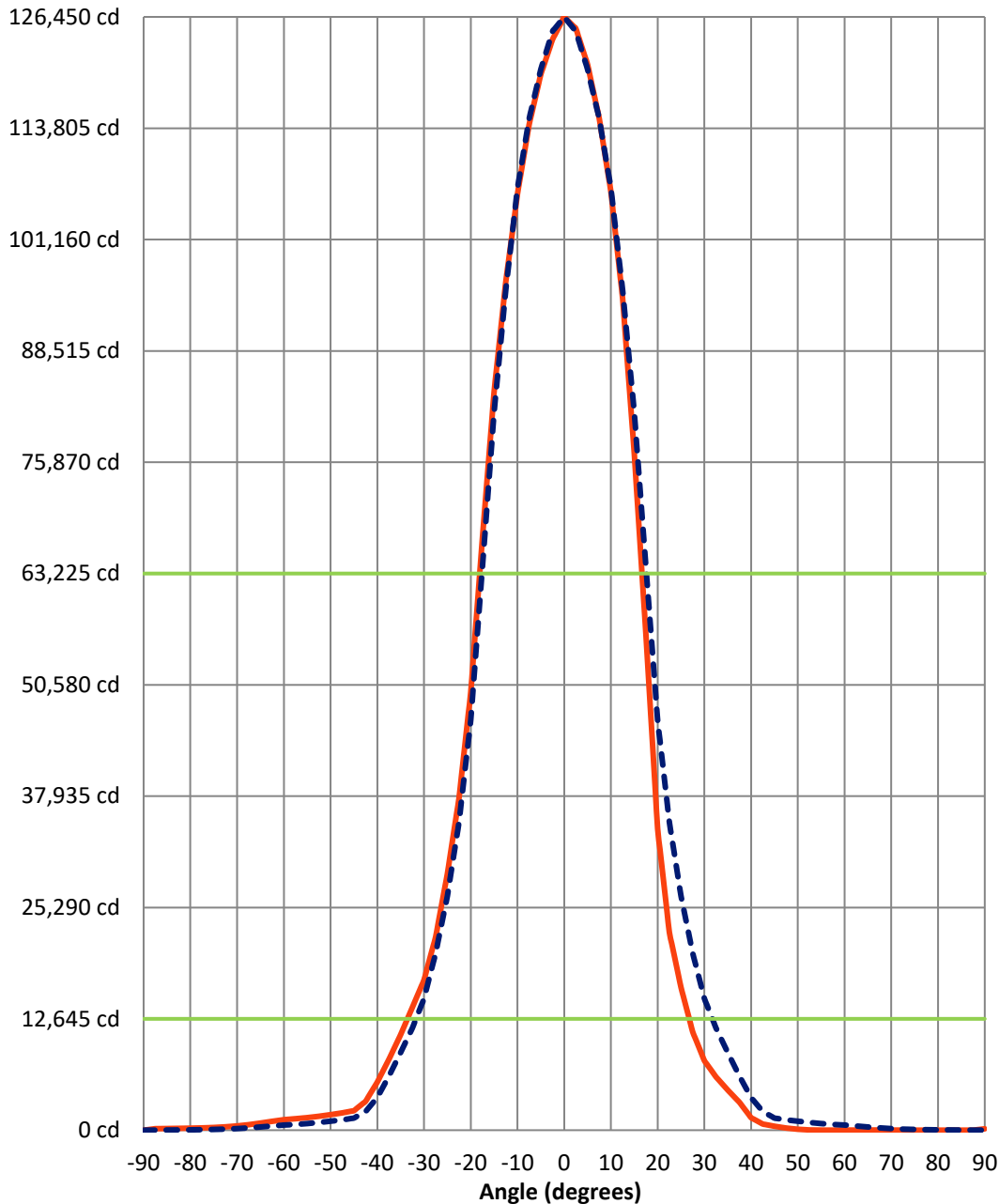
Luminous Intensity Polar Plot



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

REPORT NUMBER: P735956 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-VHE

Luminous Intensity Plot



Beam:
 H Angle: 35.2°
 V Angle: 34.7°
 Lumens: 28153.7
 Efficiency: 53.7%

Field:
 H Angle: 63.4°
 V Angle: 60.3°
 Lumens: 45814.5
 Efficiency: 87.3%

Spill:
 Lumens: 6639.7
 Efficiency: 12.7%

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



REPORT NUMBER: P735956 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-VHE

FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	5.6	10.6	15.6	25.6	35.7	44.7	53.8	61.0	68.2	72.9	77.6
87.5°	5.6	5.1	4.5	4.6	4.6	4.6	4.6	4.3	4.0	4.0	4.1
85°	5.6	5.2	4.6	4.7	4.8	4.8	4.7	4.5	4.2	4.3	4.3
82.5°	5.6	5.3	4.7	4.9	5.0	5.0	4.9	4.7	4.4	4.5	4.6
80°	5.6	5.4	4.8	5.0	5.2	5.2	5.1	5.0	4.9	4.9	4.8
77.5°	5.6	5.6	5.0	5.2	5.4	5.4	5.4	5.4	5.3	5.3	5.1
75°	5.6	5.7	5.1	5.3	5.6	5.7	5.8	5.8	5.7	5.5	5.1
72.5°	5.6	5.8	5.2	5.5	5.9	6.0	6.1	6.1	6.0	5.7	5.3
70°	5.6	5.9	5.4	5.6	6.1	6.3	6.5	6.5	6.3	6.0	5.8
67.5°	5.6	6.0	5.6	5.9	6.4	6.6	6.9	6.8	6.7	6.5	6.4
65°	5.6	6.2	5.7	6.1	6.6	7.0	7.3	7.2	7.4	7.0	7.1
62.5°	5.6	6.3	5.9	6.4	6.9	7.6	7.9	8.0	8.3	7.8	8.5
60°	5.6	6.4	6.1	6.7	7.2	8.1	8.4	9.1	9.3	9.9	10.1
57.5°	5.6	6.5	6.4	6.9	7.8	8.8	9.6	10.3	11.5	12.3	13.6
55°	5.6	6.7	6.8	7.2	8.5	9.4	10.9	11.7	14.2	15.5	18.3
52.5°	5.6	6.8	7.2	7.5	9.3	10.2	12.3	14.5	17.2	20.9	23.4
50°	5.6	6.9	7.6	7.7	10.0	11.6	13.8	17.5	21.1	26.8	30.3
47.5°	5.6	7.1	8.0	8.1	10.8	13.1	15.5	20.6	26.8	33.0	38.1
45°	5.6	7.2	8.5	8.7	11.7	14.7	18.3	23.9	32.9	40.6	46.4
42.5°	5.6	7.3	9.0	9.4	12.5	16.3	21.2	28.5	39.3	48.7	59.9
40°	5.6	7.5	9.5	10.3	13.6	18.0	24.3	34.2	46.2	57.1	75.5
37.5°	5.6	7.6	10.0	11.4	14.9	19.7	27.5	40.0	54.2	68.1	92.3
35°	5.6	7.8	10.5	12.5	16.3	22.0	30.7	45.9	62.6	83.7	112.8
32.5°	5.6	7.9	11.0	13.6	17.6	24.5	34.3	51.8	71.3	99.7	136.1
30°	5.6	8.0	11.6	14.8	18.9	27.1	39.1	57.9	80.2	116.0	158.3
27.5°	5.6	8.2	12.2	15.9	20.8	29.5	43.8	64.5	90.1	132.5	179.4
25°	5.6	8.3	12.7	17.1	22.6	31.9	48.3	70.7	101.4	149.8	199.4
22.5°	5.6	8.4	13.3	18.2	24.4	34.4	52.6	76.7	112.0	163.1	219.9
20°	5.6	8.5	13.9	19.3	26.2	37.3	56.8	82.4	121.9	175.6	236.5
17.5°	5.6	8.7	14.5	20.4	27.9	40.1	61.1	87.7	130.9	187.2	252.0
15°	5.6	8.8	15.0	21.5	29.6	42.7	65.4	93.0	139.2	197.8	266.6
12.5°	5.6	8.9	15.6	22.6	31.2	45.3	69.4	98.3	147.5	207.4	280.1
10°	5.6	9.0	16.1	23.7	32.7	47.8	73.2	103.4	155.6	219.8	295.0
7.5°	5.6	9.1	16.7	24.7	34.2	50.1	76.6	108.0	163.1	232.1	314.1
5°	5.6	9.2	17.2	25.7	35.6	52.4	79.8	112.3	169.7	243.4	332.1
2.5°	5.6	9.3	17.6	26.6	36.9	54.4	82.6	116.1	175.4	253.7	348.7
0°	5.6	9.4	18.1	27.5	38.2	56.3	85.1	119.5	180.2	262.7	363.5
-2.5°	5.6	9.7	18.8	28.7	40.0	58.6	88.0	123.6	186.5	270.1	370.9
-5°	5.6	10.1	19.5	29.8	41.7	60.7	90.6	127.2	191.8	276.0	376.3
-7.5°	5.6	10.4	20.1	30.8	43.2	62.6	92.8	130.2	195.9	280.3	379.7
-10°	5.6	10.7	20.7	31.8	44.7	64.3	94.6	132.7	198.7	283.0	381.2
-12.5°	5.6	11.0	21.2	32.7	46.1	65.8	96.1	134.5	200.2	284.0	382.8
-15°	5.6	11.3	21.7	33.6	47.3	67.1	97.1	135.7	200.0	282.8	382.8
-17.5°	5.6	11.5	22.2	34.3	48.4	68.2	97.7	136.5	198.0	279.7	379.6
-20°	5.6	11.8	22.6	35.0	49.4	69.0	98.2	136.9	194.8	274.6	373.0



REPORT NUMBER: P735956 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-VHE

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	5.6	12.0	23.0	35.6	50.2	69.7	98.7	136.7	190.5	267.6	363.3
-25°	5.6	12.2	23.3	36.1	50.9	70.5	98.7	135.9	185.0	258.6	353.2
-27.5°	5.6	12.4	23.6	36.5	51.5	71.3	98.3	134.5	178.3	250.9	344.5
-30°	5.6	12.6	23.8	36.8	51.9	71.8	97.5	132.5	174.3	243.7	333.1
-32.5°	5.6	12.8	24.0	37.1	52.6	72.0	96.2	130.8	172.0	234.7	318.9
-35°	5.6	12.9	24.2	37.2	53.2	72.0	95.7	128.8	168.7	223.8	301.7
-37.5°	5.6	13.0	24.3	37.2	53.6	72.0	95.4	126.2	164.4	211.0	285.3
-40°	5.6	13.1	24.3	37.2	53.8	72.3	94.8	122.9	159.2	202.7	269.3
-42.5°	5.6	13.2	24.3	37.2	54.0	72.4	93.8	118.9	154.2	195.9	251.4
-45°	5.6	13.2	24.2	37.2	54.1	72.4	92.4	115.5	148.8	187.9	233.2
-47.5°	5.6	13.2	24.1	37.2	54.0	72.1	90.6	113.5	142.5	178.7	222.6
-50°	5.6	13.3	24.0	37.2	53.8	71.6	89.7	111.0	135.4	170.4	210.5
-52.5°	5.6	13.2	23.8	37.1	53.4	71.0	88.7	108.3	130.7	161.1	196.6
-55°	5.6	13.2	23.5	37.0	52.9	70.1	87.5	105.4	126.7	150.8	183.2
-57.5°	5.6	13.1	23.3	36.7	52.2	69.0	86.1	103.6	122.3	144.2	168.9
-60°	5.6	13.0	22.9	36.4	51.4	67.8	84.5	101.5	117.9	138.4	156.1
-62.5°	5.6	12.9	22.6	35.9	50.7	66.4	82.6	99.0	114.7	131.7	148.1
-65°	5.6	12.8	22.2	35.4	49.9	64.7	80.5	96.2	111.2	126.2	139.6
-67.5°	5.6	12.7	21.7	34.7	48.9	63.1	78.1	93.0	107.4	121.1	133.0
-70°	5.6	12.5	21.2	34.0	47.8	61.4	75.6	89.6	103.4	115.8	126.9
-72.5°	5.6	12.3	20.6	33.2	46.6	59.5	73.0	86.0	99.1	110.4	120.7
-75°	5.6	12.1	20.0	32.3	45.2	57.4	70.2	82.3	94.6	104.7	114.3
-77.5°	5.6	11.9	19.4	31.4	43.9	55.2	67.2	78.5	89.9	99.0	107.6
-80°	5.6	11.7	18.7	30.4	42.4	53.2	64.0	74.5	85.0	93.1	100.9
-82.5°	5.6	11.4	18.0	29.3	40.9	51.2	61.6	70.7	80.0	87.2	94.2
-85°	5.6	11.2	17.2	28.1	39.2	49.2	59.1	67.6	76.1	82.1	88.0
-87.5°	5.6	10.9	16.4	26.9	37.5	47.0	56.5	64.3	72.2	77.5	82.8
-90°	5.6	5.0	4.4	4.4	4.4	4.4	4.4	4.1	3.8	3.8	3.8



REPORT NUMBER: P735956 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-VHE

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	81.1	84.5	87.6	90.7	94.5	98.2	102.0	105.7	109.8	113.9	118.0
87.5°	3.8	3.5	3.5	3.5	3.2	2.9	2.7	2.5	2.5	2.5	2.4
85°	4.1	3.8	3.8	3.8	3.5	3.3	3.0	2.8	2.8	2.8	2.7
82.5°	4.4	4.1	4.0	3.8	3.7	3.8	3.5	3.2	3.2	3.1	2.9
80°	4.6	4.4	4.2	4.0	3.9	3.8	3.7	3.7	3.5	3.2	3.2
77.5°	4.8	4.5	4.3	4.3	4.2	3.9	3.8	3.8	3.7	3.7	3.5
75°	4.8	4.5	4.5	4.4	4.2	3.9	3.8	3.9	4.0	3.9	3.7
72.5°	5.0	4.9	4.7	4.5	4.4	4.2	4.2	4.3	4.7	5.0	5.3
70°	5.6	5.3	5.2	5.0	4.8	4.8	5.3	6.4	7.4	7.8	8.9
67.5°	6.2	6.0	5.9	5.7	5.7	6.2	6.9	9.2	11.2	12.6	14.1
65°	6.8	6.7	6.7	6.8	6.9	8.8	10.8	13.1	16.7	18.7	18.7
62.5°	7.6	8.6	8.2	8.7	10.5	12.5	15.7	19.8	24.2	26.1	24.9
60°	10.8	11.3	11.5	12.9	14.7	16.9	21.2	26.2	31.4	34.5	29.9
57.5°	14.9	15.6	16.7	17.6	19.5	20.8	25.9	32.0	35.3	37.4	32.1
55°	20.0	21.0	22.7	23.1	24.7	25.3	29.6	33.8	36.6	37.2	31.5
52.5°	26.5	27.6	30.1	30.5	30.6	31.1	31.7	36.3	38.6	37.9	32.7
50°	33.5	37.3	38.7	40.1	38.3	39.0	36.9	42.3	46.8	45.6	47.1
47.5°	43.8	48.7	50.6	53.2	51.9	56.1	54.6	64.7	68.2	88.4	92.9
45°	56.2	64.8	67.4	73.4	79.4	84.5	100.8	102.1	144.7	162.5	196.0
42.5°	71.2	84.6	95.5	97.7	126.8	142.3	164.9	202.2	239.6	273.8	296.6
40°	93.3	107.2	130.6	157.9	188.8	222.0	252.2	295.5	331.7	358.6	374.8
37.5°	118.6	145.0	176.9	226.1	267.8	301.7	336.0	373.3	407.5	431.2	462.0
35°	146.2	184.8	243.9	295.1	339.8	371.7	405.2	444.9	477.1	515.3	553.3
32.5°	179.8	225.4	299.5	354.8	391.1	428.9	467.6	509.3	555.5	602.5	651.2
30°	213.1	271.1	343.5	401.0	436.1	480.2	527.2	576.1	636.7	696.0	761.8
27.5°	239.2	310.4	379.2	438.6	479.6	531.8	589.1	652.9	724.8	797.4	884.9
25°	262.6	339.6	415.2	478.2	530.3	588.1	655.4	732.0	817.6	919.6	1194.8
22.5°	285.3	368.0	455.0	520.6	579.1	644.4	725.7	815.1	915.8	1051.3	1538.1
20°	308.7	400.2	493.1	555.8	623.7	696.9	792.1	895.8	1020.6	1340.8	2058.9
17.5°	332.7	433.5	525.5	586.8	658.3	747.5	858.2	975.2	1127.3	1612.0	2711.1
15°	356.2	464.8	551.4	614.1	692.9	796.8	920.5	1063.8	1316.3	1990.3	3364.6
12.5°	378.6	492.9	570.7	637.6	727.2	843.3	978.2	1139.1	1538.3	2501.0	4077.4
10°	399.6	517.8	587.5	660.1	760.7	887.0	1030.0	1205.3	1732.2	2909.0	4641.7
7.5°	422.5	539.2	602.7	681.4	791.5	927.0	1072.6	1256.3	1876.6	3221.9	5060.9
5°	443.2	556.5	620.2	706.4	822.2	963.0	1109.1	1299.1	1975.2	3420.2	5351.8
2.5°	461.2	570.3	636.5	730.1	851.0	994.6	1142.1	1341.8	2063.1	3587.9	5719.9
0°	476.7	581.1	651.2	751.3	875.8	1020.9	1169.2	1376.2	2121.9	3700.8	6146.8
-2.5°	486.1	597.2	675.6	773.5	896.3	1039.6	1193.6	1413.0	2181.5	3944.9	6309.4
-5°	492.9	610.3	697.5	792.9	912.9	1053.2	1211.5	1439.1	2207.1	4012.0	6262.0
-7.5°	496.9	619.7	716.3	810.0	927.8	1069.0	1239.7	1473.9	2218.7	3846.6	5993.7
-10°	498.9	627.7	728.6	824.0	941.5	1083.6	1261.7	1496.4	2171.0	3623.3	5684.9
-12.5°	504.3	634.5	738.3	834.4	950.7	1094.0	1278.9	1513.4	2062.5	3316.6	5260.6
-15°	505.7	637.9	746.5	841.5	960.2	1109.4	1291.8	1516.3	1905.7	2920.2	4718.8
-17.5°	502.8	638.1	752.2	847.1	965.0	1115.2	1296.0	1507.9	1788.6	2632.2	4173.7
-20°	495.5	630.7	753.9	847.6	963.2	1117.6	1298.0	1504.4	1760.0	2337.7	3512.6



REPORT NUMBER: P735956 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-VHE

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	483.6	618.9	747.9	846.7	969.5	1118.6	1292.0	1482.1	1698.0	1982.4	2854.6
-25°	470.9	602.2	732.0	849.8	970.7	1113.4	1266.7	1441.3	1640.6	1863.1	2385.0
-27.5°	457.1	582.6	715.8	846.0	964.8	1093.9	1236.3	1399.9	1564.1	1743.7	1966.0
-30°	440.5	561.4	694.0	832.3	950.8	1071.4	1202.7	1335.0	1482.2	1643.9	1832.2
-32.5°	420.5	536.4	667.0	803.6	932.2	1045.3	1155.1	1273.9	1405.2	1547.8	1703.5
-35°	398.8	511.1	635.3	768.7	909.6	1013.4	1108.8	1211.6	1327.9	1458.2	1602.8
-37.5°	376.8	481.8	598.1	728.2	865.2	973.9	1059.9	1155.8	1258.2	1369.7	1504.2
-40°	351.8	448.2	559.3	682.3	803.8	921.3	1015.7	1102.7	1192.7	1294.7	1404.6
-42.5°	324.9	415.4	516.9	628.3	738.7	850.7	969.0	1054.4	1135.0	1221.6	1317.9
-45°	302.4	379.3	471.0	570.1	669.6	778.1	892.3	1006.5	1079.9	1155.0	1237.0
-47.5°	276.4	342.6	426.5	509.1	600.9	703.2	811.3	917.2	1021.5	1094.5	1163.6
-50°	251.6	311.5	375.7	451.6	533.4	627.8	726.9	823.7	921.6	1020.4	1099.2
-52.5°	234.6	278.3	333.9	393.9	469.5	553.0	639.8	726.1	818.0	912.3	1003.1
-55°	216.1	253.6	293.2	344.2	406.5	480.8	553.0	630.3	709.3	796.3	884.7
-57.5°	198.6	229.6	260.7	299.5	351.9	408.6	472.0	535.4	607.0	679.9	755.6
-60°	181.2	206.7	233.1	264.0	300.1	348.0	393.8	449.1	508.5	568.4	635.8
-62.5°	164.5	185.3	207.3	233.4	263.6	291.9	329.8	372.6	415.5	468.6	523.1
-65°	154.8	166.3	183.6	206.2	229.7	254.8	279.4	305.6	342.9	382.5	421.3
-67.5°	144.4	155.0	165.8	179.8	200.3	219.9	239.7	262.7	286.5	312.2	340.4
-70°	136.6	144.0	153.6	164.6	175.3	187.1	204.7	223.1	241.4	261.3	283.5
-72.5°	129.2	136.2	143.3	151.1	160.5	169.4	178.7	188.6	203.1	220.6	237.0
-75°	121.8	128.2	134.7	141.5	148.6	155.4	162.7	171.6	181.6	192.3	202.3
-77.5°	114.3	120.2	126.1	132.0	138.4	145.0	151.3	157.7	165.5	173.8	181.7
-80°	106.8	112.1	117.6	123.0	128.6	134.4	139.9	145.3	152.0	159.2	166.2
-82.5°	99.5	104.5	109.2	114.0	118.9	123.6	128.6	133.7	139.8	146.1	152.1
-85°	92.5	96.9	100.9	104.9	109.4	113.8	118.0	122.3	127.9	133.6	138.7
-87.5°	86.8	90.7	94.1	97.5	101.5	105.4	109.1	112.7	117.6	122.4	126.8
-90°	3.5	3.1	3.1	3.1	2.8	2.5	2.5	2.5	2.5	2.5	2.2



REPORT NUMBER: P735956 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-VHE

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	122.0	124.8	127.6	129.5	131.4	134.2	137.0	141.1	145.1	148.6	152.0
87.5°	2.4	2.2	1.9	1.9	1.8	1.9	1.9	1.6	1.3	1.3	1.3
85°	2.5	2.4	2.3	2.4	2.4	2.2	1.9	1.9	1.9	1.9	1.9
82.5°	2.8	2.7	2.5	2.5	2.5	2.4	2.4	2.2	1.9	1.9	1.9
80°	3.1	2.9	2.8	2.7	2.5	2.5	2.5	2.2	1.9	1.9	1.9
77.5°	3.2	3.2	3.1	2.9	2.6	2.5	2.5	2.2	1.9	1.9	1.9
75°	3.7	3.7	3.6	3.5	3.4	3.5	3.7	3.6	3.5	3.3	3.0
72.5°	5.7	5.7	5.5	5.9	6.2	6.5	6.6	6.8	7.1	7.5	8.1
70°	10.0	10.7	10.7	10.7	10.7	10.4	10.1	9.9	10.0	10.2	10.4
67.5°	15.0	15.6	15.9	16.1	14.6	13.7	13.4	13.4	13.9	15.1	16.7
65°	19.1	18.0	16.9	15.8	16.0	15.9	15.2	14.8	15.3	16.0	16.8
62.5°	22.8	18.1	15.1	13.6	13.9	14.4	13.0	12.0	11.6	11.4	11.4
60°	24.5	17.0	12.0	10.2	9.1	8.6	7.7	6.6	6.2	6.1	6.2
57.5°	24.7	16.2	9.6	7.5	5.8	4.5	3.8	3.3	3.3	3.2	3.1
55°	23.9	16.4	9.3	8.5	7.8	7.1	6.2	6.0	5.7	5.7	6.0
52.5°	24.8	23.0	18.8	18.2	22.3	22.4	19.3	23.7	26.7	29.1	30.2
50°	49.0	47.1	59.6	59.5	72.1	82.9	79.8	86.1	97.0	106.4	112.2
47.5°	114.7	123.7	142.3	159.0	178.0	201.8	212.4	219.9	229.4	242.1	250.7
45°	213.7	236.0	260.2	287.3	318.9	346.8	363.1	378.7	389.1	400.4	413.8
42.5°	317.2	343.9	379.8	412.2	446.4	479.0	504.7	527.3	571.6	634.6	684.8
40°	405.9	436.3	477.9	521.1	561.3	602.6	716.2	813.0	933.7	1113.8	1273.4
37.5°	494.0	529.0	575.5	628.4	749.9	872.9	1121.1	1389.1	1621.2	1881.6	2144.6
35°	589.9	636.0	698.1	876.1	1101.0	1429.0	1784.7	2182.8	2520.7	2884.2	3416.9
32.5°	703.2	783.7	984.7	1308.1	1711.5	2177.3	2618.6	3119.0	3540.9	4209.0	5022.5
30°	849.3	1101.6	1487.5	1934.1	2478.3	3068.0	3621.3	4431.7	5378.5	6216.6	6908.7
27.5°	1201.6	1688.9	2227.8	2793.7	3475.2	4189.7	5349.9	6398.8	7417.5	8322.4	9373.8
25°	1727.6	2509.3	3430.4	4189.0	5115.1	6406.4	7718.3	8873.4	10421.7	11783.4	13310.9
22.5°	2471.6	3584.8	4771.1	5878.8	7301.0	8918.3	10683.3	12811.8	14962.5	17351.5	19476.9
20°	3197.9	4606.2	6108.6	7703.1	9524.6	11546.6	14431.8	17886.1	21200.2	24964.1	28137.9
17.5°	4165.0	5867.5	7644.3	9671.1	12012.9	15123.9	19382.4	24105.6	29230.6	34851.0	40048.4
15°	5148.4	6982.5	9047.1	11641.3	14953.6	19181.7	24614.6	31044.3	38539.2	46801.4	56846.2
12.5°	5954.4	7960.0	10374.2	13643.4	17975.6	23629.9	30212.3	37952.2	48227.4	60689.1	72359.2
10°	6643.0	9047.8	12098.5	15967.6	21063.4	27446.5	34924.1	44506.7	58347.9	72784.3	85591.2
7.5°	7352.3	10197.3	13428.1	17623.1	23417.0	30662.5	39870.4	52383.9	67612.9	82419.9	94164.3
5°	8021.4	10981.1	14267.0	18748.9	25014.6	32796.2	43243.7	58485.2	75057.6	89560.0	100593.9
2.5°	8545.4	11375.3	14708.9	19587.4	25878.2	33955.8	45358.2	62258.0	79642.5	93935.3	105249.7
0°	8817.3	11589.1	14954.0	20111.8	26594.5	35020.2	46570.5	63923.0	81507.5	95426.2	106958.4
-2.5°	8757.1	11486.0	14802.2	19707.1	26430.8	35212.7	47578.5	64790.7	81828.7	95934.8	106803.2
-5°	8630.6	11323.4	14593.9	19209.8	25844.6	34728.6	46484.0	62308.3	78763.3	93232.9	103798.7
-7.5°	8394.8	11051.2	14178.3	18482.4	24873.0	33285.9	43894.0	57644.7	73430.5	87928.0	98156.6
-10°	8047.9	10630.7	13581.9	17496.4	23235.7	30962.8	39981.5	50719.9	65486.8	79041.1	90406.5
-12.5°	7554.7	10035.8	12754.5	16118.4	21258.2	28067.8	35842.8	44765.1	55319.2	68391.3	79044.7
-15°	6927.2	9260.6	11787.0	14960.8	19258.5	24838.0	31393.4	38315.0	46404.4	55427.8	65811.9
-17.5°	6157.2	8349.0	10701.6	13437.8	16913.6	21594.8	26780.4	32181.1	38020.2	44660.6	50761.3
-20°	5239.0	7243.8	9460.8	12005.9	14984.1	18365.5	22135.0	26501.1	31027.1	35766.5	39959.9



REPORT NUMBER: P735956 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-VHE

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	4306.6	6135.4	8248.1	10473.5	13062.0	15643.0	18174.8	21421.2	24916.4	28347.5	31468.7
-25°	3369.6	4984.2	6948.5	9035.7	11113.4	13221.6	15277.3	17293.2	19808.3	22016.8	24307.6
-27.5°	2676.4	3884.2	5533.7	7355.1	9165.6	10924.7	12702.0	14385.9	15972.0	17305.8	18850.3
-30°	2104.8	2920.1	4194.3	5627.7	7211.8	8761.7	10293.3	11715.7	12964.8	14063.0	15135.5
-32.5°	1903.1	2236.0	2993.1	4082.4	5332.1	6691.9	7972.1	9193.9	10223.6	11244.2	12205.2
-35°	1760.4	1943.7	2191.2	2871.7	3685.6	4767.7	5771.2	6785.2	7650.0	8669.2	9457.3
-37.5°	1643.5	1784.7	1941.2	2101.7	2596.6	3138.4	3860.9	4621.0	5289.1	6144.1	6839.9
-40°	1530.3	1655.3	1777.6	1899.6	2031.2	2152.2	2582.2	2974.2	3427.4	4012.3	4512.6
-42.5°	1420.9	1531.0	1636.9	1736.0	1828.0	1907.4	1993.9	2076.9	2321.7	2619.7	2848.7
-45°	1322.7	1416.3	1504.9	1588.7	1658.8	1722.4	1789.1	1858.5	1949.5	2032.2	2100.5
-47.5°	1239.2	1313.1	1385.8	1454.1	1507.9	1562.2	1615.2	1675.1	1746.0	1815.4	1873.5
-50°	1163.6	1227.6	1282.7	1331.2	1375.9	1421.8	1464.1	1517.3	1574.3	1631.7	1679.7
-52.5°	1091.2	1148.2	1194.2	1231.1	1265.2	1302.6	1339.0	1381.5	1427.7	1476.0	1514.2
-55°	969.6	1042.0	1108.9	1143.5	1170.3	1201.1	1232.0	1266.3	1305.4	1346.0	1376.2
-57.5°	835.3	906.7	969.7	1014.6	1059.0	1104.2	1138.1	1165.1	1200.4	1235.0	1261.2
-60°	700.3	760.2	815.9	861.3	907.5	952.8	991.0	1026.1	1069.8	1109.5	1141.9
-62.5°	574.7	627.1	670.1	706.8	746.2	785.6	821.9	856.5	896.3	932.0	962.2
-65°	460.6	504.5	536.3	565.2	596.5	629.1	657.9	686.5	718.4	747.0	771.9
-67.5°	372.4	401.5	421.3	439.7	464.6	490.0	512.5	535.3	559.7	581.4	600.2
-70°	304.9	323.0	335.3	349.4	367.1	383.3	398.1	414.8	432.7	449.3	464.3
-72.5°	252.7	265.2	274.3	285.6	296.8	307.1	316.5	328.5	341.5	354.4	366.6
-75°	211.7	219.8	228.6	236.7	244.4	251.8	258.7	268.4	278.4	288.1	297.3
-77.5°	189.9	196.0	200.9	205.4	209.6	214.4	219.2	227.3	236.1	243.6	250.6
-80°	173.1	177.8	181.9	185.3	188.5	192.4	196.4	203.0	209.9	216.2	222.3
-82.5°	158.0	162.0	165.7	168.9	171.9	175.3	178.7	184.5	190.5	195.8	201.1
-85°	143.8	147.3	150.7	153.5	156.3	159.4	162.5	167.5	172.6	177.4	182.1
-87.5°	131.1	134.3	137.4	139.5	141.5	144.6	147.6	152.1	156.6	160.7	164.9
-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: P735956 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-VHE

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	153.9	155.8	156.1	156.4	156.1	155.8	153.9	152.0	148.6	145.1	141.1
87.5°	0.9	0.6	0.9	1.3	0.9	0.6	0.9	1.3	1.3	1.3	1.6
85°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.2
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.2
77.5°	1.6	1.3	1.6	1.9	1.6	1.3	1.6	1.9	1.9	1.9	2.2
75°	2.8	2.5	2.2	1.9	2.2	2.5	2.8	3.0	3.3	3.5	3.6
72.5°	8.4	8.6	9.0	9.4	9.0	8.6	8.4	8.1	7.5	7.1	6.8
70°	10.0	9.5	9.4	9.4	9.4	9.5	10.0	10.4	10.2	10.0	9.9
67.5°	17.9	18.9	19.3	19.4	19.3	18.9	17.9	16.7	15.1	13.9	13.4
65°	17.4	18.0	18.1	18.1	18.1	18.0	17.4	16.8	16.0	15.3	14.8
62.5°	11.6	12.0	12.2	12.5	12.2	12.0	11.6	11.4	11.4	11.6	12.0
60°	6.5	7.0	7.2	7.5	7.2	7.0	6.5	6.2	6.1	6.2	6.6
57.5°	3.0	3.2	3.4	3.8	3.4	3.2	3.0	3.1	3.2	3.3	3.3
55°	6.3	6.7	6.8	6.9	6.8	6.7	6.3	6.0	5.7	5.7	6.0
52.5°	29.7	28.3	27.2	26.3	27.2	28.3	29.7	30.2	29.1	26.7	23.7
50°	114.7	111.9	108.7	105.7	108.7	111.9	114.7	112.2	106.4	97.0	86.1
47.5°	255.7	253.5	248.8	242.7	248.8	253.5	255.7	250.7	242.1	229.4	219.9
45°	432.2	444.8	450.4	447.3	450.4	444.8	432.2	413.8	400.4	389.1	378.7
42.5°	701.8	712.9	713.9	697.5	713.9	712.9	701.8	684.8	634.6	571.6	527.3
40°	1388.9	1485.1	1518.1	1418.8	1518.1	1485.1	1388.9	1273.4	1113.8	933.7	813.0
37.5°	2461.5	2839.7	3155.1	3167.2	3155.1	2839.7	2461.5	2144.6	1881.6	1621.2	1389.1
35°	3989.3	4378.4	4566.5	4558.5	4566.5	4378.4	3989.3	3416.9	2884.2	2520.7	2182.8
32.5°	5607.1	5901.8	6090.2	6044.8	6090.2	5901.8	5607.1	5022.5	4209.0	3540.9	3119.0
30°	7403.1	7676.5	7896.0	7892.7	7896.0	7676.5	7403.1	6908.7	6216.6	5378.5	4431.7
27.5°	10229.6	10793.1	11240.9	11165.0	11240.9	10793.1	10229.6	9373.8	8322.4	7417.5	6398.8
25°	14599.4	15630.1	16358.9	16208.9	16358.9	15630.1	14599.4	13310.9	11783.4	10421.7	8873.4
22.5°	21054.8	22377.0	22929.9	22491.4	22929.9	22377.0	21054.8	19476.9	17351.5	14962.5	12811.8
20°	31161.6	33613.0	35137.0	34228.2	35137.0	33613.0	31161.6	28137.9	24964.1	21200.2	17886.1
17.5°	46775.4	52093.5	56295.6	56179.8	56295.6	52093.5	46775.4	40048.4	34851.0	29230.6	24105.6
15°	65591.6	71644.7	76305.6	76844.6	76305.6	71644.7	65591.6	56846.2	46801.4	38539.2	31044.3
12.5°	82439.5	88595.6	93156.7	94469.1	93156.7	88595.6	82439.5	72359.2	60689.1	48227.4	37952.2
10°	94447.0	100590.3	105005.1	106561.8	105005.1	100590.3	94447.0	85591.2	72784.3	58347.9	44506.7
7.5°	103255.5	109920.5	113229.8	114921.2	113229.8	109920.5	103255.5	94164.3	82419.9	67612.9	52383.9
5°	109593.8	115788.1	118989.5	121039.2	118989.5	115788.1	109593.8	100593.9	89560.0	75057.6	58485.2
2.5°	113589.4	119437.4	123281.9	125120.4	123281.9	119437.4	113589.4	105249.7	93935.3	79642.5	62258.0
0°	114879.0	120493.1	124802.3	126450.3	124802.3	120493.1	114879.0	106958.4	95426.2	81507.5	63923.0
-2.5°	114279.2	119778.7	123215.5	123881.7	123215.5	119778.7	114279.2	106803.2	95934.8	81828.7	64790.7
-5°	111157.5	116226.2	119399.8	119921.3	119399.8	116226.2	111157.5	103798.7	93232.9	78763.3	62308.3
-7.5°	105776.0	110832.3	113455.4	114227.8	113455.4	110832.3	105776.0	98156.6	87928.0	73430.5	57644.7
-10°	97973.2	102858.1	105661.7	106326.6	105661.7	102858.1	97973.2	90406.5	79041.1	65486.8	50719.9
-12.5°	87326.2	92537.4	95675.1	96366.5	95675.1	92537.4	87326.2	79044.7	68391.3	55319.2	44765.1
-15°	73520.1	78880.5	82886.2	83855.2	82886.2	78880.5	73520.1	65811.9	55427.8	46404.4	38315.0
-17.5°	57605.9	62970.0	66569.4	67256.6	66569.4	62970.0	57605.9	50761.3	44660.6	38020.2	32181.1
-20°	43899.5	47349.4	49380.8	49734.6	49380.8	47349.4	43899.5	39959.9	35766.5	31027.1	26501.1



REPORT NUMBER: P735956 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-VHE

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	34019.4	36338.1	37574.9	37749.5	37574.9	36338.1	34019.4	31468.7	28347.5	24916.4	21421.2
-25°	26361.8	28046.5	28967.7	29121.1	28967.7	28046.5	26361.8	24307.6	22016.8	19808.3	17293.2
-27.5°	20241.4	21287.9	22145.1	21966.6	22145.1	21287.9	20241.4	18850.3	17305.8	15972.0	14385.9
-30°	16016.7	16687.9	17194.2	17061.6	17194.2	16687.9	16016.7	15135.5	14063.0	12964.8	11715.7
-32.5°	12963.4	13489.2	13845.1	13940.0	13845.1	13489.2	12963.4	12205.2	11244.2	10223.6	9193.9
-35°	10075.8	10505.5	10752.1	10847.9	10752.1	10505.5	10075.8	9457.3	8669.2	7650.0	6785.2
-37.5°	7356.3	7733.2	7968.6	8050.3	7968.6	7733.2	7356.3	6839.9	6144.1	5289.1	4621.0
-40°	4895.8	5186.3	5379.0	5453.6	5379.0	5186.3	4895.8	4512.6	4012.3	3427.4	2974.2
-42.5°	3027.0	3163.0	3249.1	3276.1	3249.1	3163.0	3027.0	2848.7	2619.7	2321.7	2076.9
-45°	2153.2	2190.7	2212.2	2216.4	2212.2	2190.7	2153.2	2100.5	2032.2	1949.5	1858.5
-47.5°	1918.9	1948.5	1963.6	1964.3	1963.6	1948.5	1918.9	1873.5	1815.4	1746.0	1675.1
-50°	1719.4	1746.8	1760.6	1761.6	1760.6	1746.8	1719.4	1679.7	1631.7	1574.3	1517.3
-52.5°	1545.5	1567.3	1577.5	1577.7	1577.5	1567.3	1545.5	1514.2	1476.0	1427.7	1381.5
-55°	1401.1	1418.1	1424.4	1423.2	1424.4	1418.1	1401.1	1376.2	1346.0	1305.4	1266.3
-57.5°	1282.9	1299.6	1304.8	1303.0	1304.8	1299.6	1282.9	1261.2	1235.0	1200.4	1165.1
-60°	1167.1	1184.9	1191.6	1191.1	1191.6	1184.9	1167.1	1141.9	1109.5	1069.8	1026.1
-62.5°	983.9	997.6	1004.9	1007.2	1004.9	997.6	983.9	962.2	932.0	896.3	856.5
-65°	789.0	799.9	805.7	807.6	805.7	799.9	789.0	771.9	747.0	718.4	686.5
-67.5°	612.4	620.3	624.0	624.9	624.0	620.3	612.4	600.2	581.4	559.7	535.3
-70°	473.6	480.1	483.1	484.2	483.1	480.1	473.6	464.3	449.3	432.7	414.8
-72.5°	373.6	378.7	380.8	381.6	380.8	378.7	373.6	366.6	354.4	341.5	328.5
-75°	301.6	304.7	305.9	306.5	305.9	304.7	301.6	297.3	288.1	278.4	268.4
-77.5°	254.4	257.7	258.8	259.6	258.8	257.7	254.4	250.6	243.6	236.1	227.3
-80°	225.0	227.3	228.3	229.0	228.3	227.3	225.0	222.3	216.2	209.9	203.0
-82.5°	204.3	207.4	207.6	207.7	207.6	207.4	204.3	201.1	195.8	190.5	184.5
-85°	184.5	186.9	187.3	187.7	187.3	186.9	184.5	182.1	177.4	172.6	167.5
-87.5°	167.2	169.4	169.5	169.5	169.5	169.4	167.2	164.9	160.7	156.6	152.1
-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: P735956 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-VHE

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	137.0	134.2	131.4	129.5	127.6	124.8	122.0	118.0	113.9	109.8	105.7
87.5°	1.9	1.9	1.8	1.9	1.9	2.2	2.4	2.4	2.5	2.5	2.5
85°	1.9	2.2	2.4	2.4	2.3	2.4	2.5	2.7	2.8	2.8	2.8
82.5°	2.4	2.4	2.5	2.5	2.5	2.7	2.8	2.9	3.1	3.2	3.2
80°	2.5	2.5	2.5	2.7	2.8	2.9	3.1	3.2	3.2	3.5	3.7
77.5°	2.5	2.5	2.6	2.9	3.1	3.2	3.2	3.5	3.7	3.7	3.8
75°	3.7	3.5	3.4	3.5	3.6	3.7	3.7	3.7	3.9	4.0	3.9
72.5°	6.6	6.5	6.2	5.9	5.5	5.7	5.7	5.3	5.0	4.7	4.3
70°	10.1	10.4	10.7	10.7	10.7	10.7	10.0	8.9	7.8	7.4	6.4
67.5°	13.4	13.7	14.6	16.1	15.9	15.6	15.0	14.1	12.6	11.2	9.2
65°	15.2	15.9	16.0	15.8	16.9	18.0	19.1	18.7	18.7	16.7	13.1
62.5°	13.0	14.4	13.9	13.6	15.1	18.1	22.8	24.9	26.1	24.2	19.8
60°	7.7	8.6	9.1	10.2	12.0	17.0	24.5	29.9	34.5	31.4	26.2
57.5°	3.8	4.5	5.8	7.5	9.6	16.2	24.7	32.1	37.4	35.3	32.0
55°	6.2	7.1	7.8	8.5	9.3	16.4	23.9	31.5	37.2	36.6	33.8
52.5°	19.3	22.4	22.3	18.2	18.8	23.0	24.8	32.7	37.9	38.6	36.3
50°	79.8	82.9	72.1	59.5	59.6	47.1	49.0	47.1	45.6	46.8	42.3
47.5°	212.4	201.8	178.0	159.0	142.3	123.7	114.7	92.9	88.4	68.2	64.7
45°	363.1	346.8	318.9	287.3	260.2	236.0	213.7	196.0	162.5	144.7	102.1
42.5°	504.7	479.0	446.4	412.2	379.8	343.9	317.2	296.6	273.8	239.6	202.2
40°	716.2	602.6	561.3	521.1	477.9	436.3	405.9	374.8	358.6	331.7	295.5
37.5°	1121.1	872.9	749.9	628.4	575.5	529.0	494.0	462.0	431.2	407.5	373.3
35°	1784.7	1429.0	1101.0	876.1	698.1	636.0	589.9	553.3	515.3	477.1	444.9
32.5°	2618.6	2177.3	1711.5	1308.1	984.7	783.7	703.2	651.2	602.5	555.5	509.3
30°	3621.3	3068.0	2478.3	1934.1	1487.5	1101.6	849.3	761.8	696.0	636.7	576.1
27.5°	5349.9	4189.7	3475.2	2793.7	2227.8	1688.9	1201.6	884.9	797.4	724.8	652.9
25°	7718.3	6406.4	5115.1	4189.0	3430.4	2509.3	1727.6	1194.8	919.6	817.6	732.0
22.5°	10683.3	8918.3	7301.0	5878.8	4771.1	3584.8	2471.6	1538.1	1051.3	915.8	815.1
20°	14431.8	11546.6	9524.6	7703.1	6108.6	4606.2	3197.9	2058.9	1340.8	1020.6	895.8
17.5°	19382.4	15123.9	12012.9	9671.1	7644.3	5867.5	4165.0	2711.1	1612.0	1127.3	975.2
15°	24614.6	19181.7	14953.6	11641.3	9047.1	6982.5	5148.4	3364.6	1990.3	1316.3	1063.8
12.5°	30212.3	23629.9	17975.6	13643.4	10374.2	7960.0	5954.4	4077.4	2501.0	1538.3	1139.1
10°	34924.1	27446.5	21063.4	15967.6	12098.5	9047.8	6643.0	4641.7	2909.0	1732.2	1205.3
7.5°	39870.4	30662.5	23417.0	17623.1	13428.1	10197.3	7352.3	5060.9	3221.9	1876.6	1256.3
5°	43243.7	32796.2	25014.6	18748.9	14267.0	10981.1	8021.4	5351.8	3420.2	1975.2	1299.1
2.5°	45358.2	33955.8	25878.2	19587.4	14708.9	11375.3	8545.4	5719.9	3587.9	2063.1	1341.8
0°	46570.5	35020.2	26594.5	20111.8	14954.0	11589.1	8817.3	6146.8	3700.8	2121.9	1376.2
-2.5°	47578.5	35212.7	26430.8	19707.1	14802.2	11486.0	8757.1	6309.4	3944.9	2181.5	1413.0
-5°	46484.0	34728.6	25844.6	19209.8	14593.9	11323.4	8630.6	6262.0	4012.0	2207.1	1439.1
-7.5°	43894.0	33285.9	24873.0	18482.4	14178.3	11051.2	8394.8	5993.7	3846.6	2218.7	1473.9
-10°	39981.5	30962.8	23235.7	17496.4	13581.9	10630.7	8047.9	5684.9	3623.3	2171.0	1496.4
-12.5°	35842.8	28067.8	21258.2	16118.4	12754.5	10035.8	7554.7	5260.6	3316.6	2062.5	1513.4
-15°	31393.4	24838.0	19258.5	14960.8	11787.0	9260.6	6927.2	4718.8	2920.2	1905.7	1516.3
-17.5°	26780.4	21594.8	16913.6	13437.8	10701.6	8349.0	6157.2	4173.7	2632.2	1788.6	1507.9
-20°	22135.0	18365.5	14984.1	12005.9	9460.8	7243.8	5239.0	3512.6	2337.7	1760.0	1504.4



REPORT NUMBER: P735956 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-VHE

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	18174.8	15643.0	13062.0	10473.5	8248.1	6135.4	4306.6	2854.6	1982.4	1698.0	1482.1
-25°	15277.3	13221.6	11113.4	9035.7	6948.5	4984.2	3369.6	2385.0	1863.1	1640.6	1441.3
-27.5°	12702.0	10924.7	9165.6	7355.1	5533.7	3884.2	2676.4	1966.0	1743.7	1564.1	1399.9
-30°	10293.3	8761.7	7211.8	5627.7	4194.3	2920.1	2104.8	1832.2	1643.9	1482.2	1335.0
-32.5°	7972.1	6691.9	5332.1	4082.4	2993.1	2236.0	1903.1	1703.5	1547.8	1405.2	1273.9
-35°	5771.2	4767.7	3685.6	2871.7	2191.2	1943.7	1760.4	1602.8	1458.2	1327.9	1211.6
-37.5°	3860.9	3138.4	2596.6	2101.7	1941.2	1784.7	1643.5	1504.2	1369.7	1258.2	1155.8
-40°	2582.2	2152.2	2031.2	1899.6	1777.6	1655.3	1530.3	1404.6	1294.7	1192.7	1102.7
-42.5°	1993.9	1907.4	1828.0	1736.0	1636.9	1531.0	1420.9	1317.9	1221.6	1135.0	1054.4
-45°	1789.1	1722.4	1658.8	1588.7	1504.9	1416.3	1322.7	1237.0	1155.0	1079.9	1006.5
-47.5°	1615.2	1562.2	1507.9	1454.1	1385.8	1313.1	1239.2	1163.6	1094.5	1021.5	917.2
-50°	1464.1	1421.8	1375.9	1331.2	1282.7	1227.6	1163.6	1099.2	1020.4	921.6	823.7
-52.5°	1339.0	1302.6	1265.2	1231.1	1194.2	1148.2	1091.2	1003.1	912.3	818.0	726.1
-55°	1232.0	1201.1	1170.3	1143.5	1108.9	1042.0	969.6	884.7	796.3	709.3	630.3
-57.5°	1138.1	1104.2	1059.0	1014.6	969.7	906.7	835.3	755.6	679.9	607.0	535.4
-60°	991.0	952.8	907.5	861.3	815.9	760.2	700.3	635.8	568.4	508.5	449.1
-62.5°	821.9	785.6	746.2	706.8	670.1	627.1	574.7	523.1	468.6	415.5	372.6
-65°	657.9	629.1	596.5	565.2	536.3	504.5	460.6	421.3	382.5	342.9	305.6
-67.5°	512.5	490.0	464.6	439.7	421.3	401.5	372.4	340.4	312.2	286.5	262.7
-70°	398.1	383.3	367.1	349.4	335.3	323.0	304.9	283.5	261.3	241.4	223.1
-72.5°	316.5	307.1	296.8	285.6	274.3	265.2	252.7	237.0	220.6	203.1	188.6
-75°	258.7	251.8	244.4	236.7	228.6	219.8	211.7	202.3	192.3	181.6	171.6
-77.5°	219.2	214.4	209.6	205.4	200.9	196.0	189.9	181.7	173.8	165.5	157.7
-80°	196.4	192.4	188.5	185.3	181.9	177.8	173.1	166.2	159.2	152.0	145.3
-82.5°	178.7	175.3	171.9	168.9	165.7	162.0	158.0	152.1	146.1	139.8	133.7
-85°	162.5	159.4	156.3	153.5	150.7	147.3	143.8	138.7	133.6	127.9	122.3
-87.5°	147.6	144.6	141.5	139.5	137.4	134.3	131.1	126.8	122.4	117.6	112.7
-90°	1.3	1.3	1.3	1.6	1.9	1.9	1.9	2.2	2.5	2.5	2.5



REPORT NUMBER: P735956 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	102.0	98.2	94.5	90.7	87.6	84.5	81.1	77.6	72.9	68.2	61.0
87.5°	2.7	2.9	3.2	3.5	3.5	3.5	3.8	4.1	4.0	4.0	4.3
85°	3.0	3.3	3.5	3.8	3.8	3.8	4.1	4.3	4.3	4.2	4.5
82.5°	3.5	3.8	3.7	3.8	4.0	4.1	4.4	4.6	4.5	4.4	4.7
80°	3.7	3.8	3.9	4.0	4.2	4.4	4.6	4.8	4.9	4.9	5.0
77.5°	3.8	3.9	4.2	4.3	4.3	4.5	4.8	5.1	5.3	5.3	5.4
75°	3.8	3.9	4.2	4.4	4.5	4.5	4.8	5.1	5.5	5.7	5.8
72.5°	4.2	4.2	4.4	4.5	4.7	4.9	5.0	5.3	5.7	6.0	6.1
70°	5.3	4.8	4.8	5.0	5.2	5.3	5.6	5.8	6.0	6.3	6.5
67.5°	6.9	6.2	5.7	5.7	5.9	6.0	6.2	6.4	6.5	6.7	6.8
65°	10.8	8.8	6.9	6.8	6.7	6.7	6.8	7.1	7.0	7.4	7.2
62.5°	15.7	12.5	10.5	8.7	8.2	8.6	7.6	8.5	7.8	8.3	8.0
60°	21.2	16.9	14.7	12.9	11.5	11.3	10.8	10.1	9.9	9.3	9.1
57.5°	25.9	20.8	19.5	17.6	16.7	15.6	14.9	13.6	12.3	11.5	10.3
55°	29.6	25.3	24.7	23.1	22.7	21.0	20.0	18.3	15.5	14.2	11.7
52.5°	31.7	31.1	30.6	30.5	30.1	27.6	26.5	23.4	20.9	17.2	14.5
50°	36.9	39.0	38.3	40.1	38.7	37.3	33.5	30.3	26.8	21.1	17.5
47.5°	54.6	56.1	51.9	53.2	50.6	48.7	43.8	38.1	33.0	26.8	20.6
45°	100.8	84.5	79.4	73.4	67.4	64.8	56.2	46.4	40.6	32.9	23.9
42.5°	164.9	142.3	126.8	97.7	95.5	84.6	71.2	59.9	48.7	39.3	28.5
40°	252.2	222.0	188.8	157.9	130.6	107.2	93.3	75.5	57.1	46.2	34.2
37.5°	336.0	301.7	267.8	226.1	176.9	145.0	118.6	92.3	68.1	54.2	40.0
35°	405.2	371.7	339.8	295.1	243.9	184.8	146.2	112.8	83.7	62.6	45.9
32.5°	467.6	428.9	391.1	354.8	299.5	225.4	179.8	136.1	99.7	71.3	51.8
30°	527.2	480.2	436.1	401.0	343.5	271.1	213.1	158.3	116.0	80.2	57.9
27.5°	589.1	531.8	479.6	438.6	379.2	310.4	239.2	179.4	132.5	90.1	64.5
25°	655.4	588.1	530.3	478.2	415.2	339.6	262.6	199.4	149.8	101.4	70.7
22.5°	725.7	644.4	579.1	520.6	455.0	368.0	285.3	219.9	163.1	112.0	76.7
20°	792.1	696.9	623.7	555.8	493.1	400.2	308.7	236.5	175.6	121.9	82.4
17.5°	858.2	747.5	658.3	586.8	525.5	433.5	332.7	252.0	187.2	130.9	87.7
15°	920.5	796.8	692.9	614.1	551.4	464.8	356.2	266.6	197.8	139.2	93.0
12.5°	978.2	843.3	727.2	637.6	570.7	492.9	378.6	280.1	207.4	147.5	98.3
10°	1030.0	887.0	760.7	660.1	587.5	517.8	399.6	295.0	219.8	155.6	103.4
7.5°	1072.6	927.0	791.5	681.4	602.7	539.2	422.5	314.1	232.1	163.1	108.0
5°	1109.1	963.0	822.2	706.4	620.2	556.5	443.2	332.1	243.4	169.7	112.3
2.5°	1142.1	994.6	851.0	730.1	636.5	570.3	461.2	348.7	253.7	175.4	116.1
0°	1169.2	1020.9	875.8	751.3	651.2	581.1	476.7	363.5	262.7	180.2	119.5
-2.5°	1193.6	1039.6	896.3	773.5	675.6	597.2	486.1	370.9	270.1	186.5	123.6
-5°	1211.5	1053.2	912.9	792.9	697.5	610.3	492.9	376.3	276.0	191.8	127.2
-7.5°	1239.7	1069.0	927.8	810.0	716.3	619.7	496.9	379.7	280.3	195.9	130.2
-10°	1261.7	1083.6	941.5	824.0	728.6	627.7	498.9	381.2	283.0	198.7	132.7
-12.5°	1278.9	1094.0	950.7	834.4	738.3	634.5	504.3	382.8	284.0	200.2	134.5
-15°	1291.8	1109.4	960.2	841.5	746.5	637.9	505.7	382.8	282.8	200.0	135.7
-17.5°	1296.0	1115.2	965.0	847.1	752.2	638.1	502.8	379.6	279.7	198.0	136.5
-20°	1298.0	1117.6	963.2	847.6	753.9	630.7	495.5	373.0	274.6	194.8	136.9



REPORT NUMBER: P735956 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1292.0	1118.6	969.5	846.7	747.9	618.9	483.6	363.3	267.6	190.5	136.7
-25°	1266.7	1113.4	970.7	849.8	732.0	602.2	470.9	353.2	258.6	185.0	135.9
-27.5°	1236.3	1093.9	964.8	846.0	715.8	582.6	457.1	344.5	250.9	178.3	134.5
-30°	1202.7	1071.4	950.8	832.3	694.0	561.4	440.5	333.1	243.7	174.3	132.5
-32.5°	1155.1	1045.3	932.2	803.6	667.0	536.4	420.5	318.9	234.7	172.0	130.8
-35°	1108.8	1013.4	909.6	768.7	635.3	511.1	398.8	301.7	223.8	168.7	128.8
-37.5°	1059.9	973.9	865.2	728.2	598.1	481.8	376.8	285.3	211.0	164.4	126.2
-40°	1015.7	921.3	803.8	682.3	559.3	448.2	351.8	269.3	202.7	159.2	122.9
-42.5°	969.0	850.7	738.7	628.3	516.9	415.4	324.9	251.4	195.9	154.2	118.9
-45°	892.3	778.1	669.6	570.1	471.0	379.3	302.4	233.2	187.9	148.8	115.5
-47.5°	811.3	703.2	600.9	509.1	426.5	342.6	276.4	222.6	178.7	142.5	113.5
-50°	726.9	627.8	533.4	451.6	375.7	311.5	251.6	210.5	170.4	135.4	111.0
-52.5°	639.8	553.0	469.5	393.9	333.9	278.3	234.6	196.6	161.1	130.7	108.3
-55°	553.0	480.8	406.5	344.2	293.2	253.6	216.1	183.2	150.8	126.7	105.4
-57.5°	472.0	408.6	351.9	299.5	260.7	229.6	198.6	168.9	144.2	122.3	103.6
-60°	393.8	348.0	300.1	264.0	233.1	206.7	181.2	156.1	138.4	117.9	101.5
-62.5°	329.8	291.9	263.6	233.4	207.3	185.3	164.5	148.1	131.7	114.7	99.0
-65°	279.4	254.8	229.7	206.2	183.6	166.3	154.8	139.6	126.2	111.2	96.2
-67.5°	239.7	219.9	200.3	179.8	165.8	155.0	144.4	133.0	121.1	107.4	93.0
-70°	204.7	187.1	175.3	164.6	153.6	144.0	136.6	126.9	115.8	103.4	89.6
-72.5°	178.7	169.4	160.5	151.1	143.3	136.2	129.2	120.7	110.4	99.1	86.0
-75°	162.7	155.4	148.6	141.5	134.7	128.2	121.8	114.3	104.7	94.6	82.3
-77.5°	151.3	145.0	138.4	132.0	126.1	120.2	114.3	107.6	99.0	89.9	78.5
-80°	139.9	134.4	128.6	123.0	117.6	112.1	106.8	100.9	93.1	85.0	74.5
-82.5°	128.6	123.6	118.9	114.0	109.2	104.5	99.5	94.2	87.2	80.0	70.7
-85°	118.0	113.8	109.4	104.9	100.9	96.9	92.5	88.0	82.1	76.1	67.6
-87.5°	109.1	105.4	101.5	97.5	94.1	90.7	86.8	82.8	77.5	72.2	64.3
-90°	2.5	2.5	2.8	3.1	3.1	3.1	3.5	3.8	3.8	3.8	4.1



REPORT NUMBER: P735956 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	53.8	44.7	35.7	25.6	15.6	10.6	5.6
87.5°	4.6	4.6	4.6	4.6	4.5	5.1	5.6
85°	4.7	4.8	4.8	4.7	4.6	5.2	5.6
82.5°	4.9	5.0	5.0	4.9	4.7	5.3	5.6
80°	5.1	5.2	5.2	5.0	4.8	5.4	5.6
77.5°	5.4	5.4	5.4	5.2	5.0	5.6	5.6
75°	5.8	5.7	5.6	5.3	5.1	5.7	5.6
72.5°	6.1	6.0	5.9	5.5	5.2	5.8	5.6
70°	6.5	6.3	6.1	5.6	5.4	5.9	5.6
67.5°	6.9	6.6	6.4	5.9	5.6	6.0	5.6
65°	7.3	7.0	6.6	6.1	5.7	6.2	5.6
62.5°	7.9	7.6	6.9	6.4	5.9	6.3	5.6
60°	8.4	8.1	7.2	6.7	6.1	6.4	5.6
57.5°	9.6	8.8	7.8	6.9	6.4	6.5	5.6
55°	10.9	9.4	8.5	7.2	6.8	6.7	5.6
52.5°	12.3	10.2	9.3	7.5	7.2	6.8	5.6
50°	13.8	11.6	10.0	7.7	7.6	6.9	5.6
47.5°	15.5	13.1	10.8	8.1	8.0	7.1	5.6
45°	18.3	14.7	11.7	8.7	8.5	7.2	5.6
42.5°	21.2	16.3	12.5	9.4	9.0	7.3	5.6
40°	24.3	18.0	13.6	10.3	9.5	7.5	5.6
37.5°	27.5	19.7	14.9	11.4	10.0	7.6	5.6
35°	30.7	22.0	16.3	12.5	10.5	7.8	5.6
32.5°	34.3	24.5	17.6	13.6	11.0	7.9	5.6
30°	39.1	27.1	18.9	14.8	11.6	8.0	5.6
27.5°	43.8	29.5	20.8	15.9	12.2	8.2	5.6
25°	48.3	31.9	22.6	17.1	12.7	8.3	5.6
22.5°	52.6	34.4	24.4	18.2	13.3	8.4	5.6
20°	56.8	37.3	26.2	19.3	13.9	8.5	5.6
17.5°	61.1	40.1	27.9	20.4	14.5	8.7	5.6
15°	65.4	42.7	29.6	21.5	15.0	8.8	5.6
12.5°	69.4	45.3	31.2	22.6	15.6	8.9	5.6
10°	73.2	47.8	32.7	23.7	16.1	9.0	5.6
7.5°	76.6	50.1	34.2	24.7	16.7	9.1	5.6
5°	79.8	52.4	35.6	25.7	17.2	9.2	5.6
2.5°	82.6	54.4	36.9	26.6	17.6	9.3	5.6
0°	85.1	56.3	38.2	27.5	18.1	9.4	5.6
-2.5°	88.0	58.6	40.0	28.7	18.8	9.7	5.6
-5°	90.6	60.7	41.7	29.8	19.5	10.1	5.6
-7.5°	92.8	62.6	43.2	30.8	20.1	10.4	5.6
-10°	94.6	64.3	44.7	31.8	20.7	10.7	5.6
-12.5°	96.1	65.8	46.1	32.7	21.2	11.0	5.6
-15°	97.1	67.1	47.3	33.6	21.7	11.3	5.6
-17.5°	97.7	68.2	48.4	34.3	22.2	11.5	5.6
-20°	98.2	69.0	49.4	35.0	22.6	11.8	5.6



REPORT NUMBER: P735956 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	98.7	69.7	50.2	35.6	23.0	12.0	5.6
-25°	98.7	70.5	50.9	36.1	23.3	12.2	5.6
-27.5°	98.3	71.3	51.5	36.5	23.6	12.4	5.6
-30°	97.5	71.8	51.9	36.8	23.8	12.6	5.6
-32.5°	96.2	72.0	52.6	37.1	24.0	12.8	5.6
-35°	95.7	72.0	53.2	37.2	24.2	12.9	5.6
-37.5°	95.4	72.0	53.6	37.2	24.3	13.0	5.6
-40°	94.8	72.3	53.8	37.2	24.3	13.1	5.6
-42.5°	93.8	72.4	54.0	37.2	24.3	13.2	5.6
-45°	92.4	72.4	54.1	37.2	24.2	13.2	5.6
-47.5°	90.6	72.1	54.0	37.2	24.1	13.2	5.6
-50°	89.7	71.6	53.8	37.2	24.0	13.3	5.6
-52.5°	88.7	71.0	53.4	37.1	23.8	13.2	5.6
-55°	87.5	70.1	52.9	37.0	23.5	13.2	5.6
-57.5°	86.1	69.0	52.2	36.7	23.3	13.1	5.6
-60°	84.5	67.8	51.4	36.4	22.9	13.0	5.6
-62.5°	82.6	66.4	50.7	35.9	22.6	12.9	5.6
-65°	80.5	64.7	49.9	35.4	22.2	12.8	5.6
-67.5°	78.1	63.1	48.9	34.7	21.7	12.7	5.6
-70°	75.6	61.4	47.8	34.0	21.2	12.5	5.6
-72.5°	73.0	59.5	46.6	33.2	20.6	12.3	5.6
-75°	70.2	57.4	45.2	32.3	20.0	12.1	5.6
-77.5°	67.2	55.2	43.9	31.4	19.4	11.9	5.6
-80°	64.0	53.2	42.4	30.4	18.7	11.7	5.6
-82.5°	61.6	51.2	40.9	29.3	18.0	11.4	5.6
-85°	59.1	49.2	39.2	28.1	17.2	11.2	5.6
-87.5°	56.5	47.0	37.5	26.9	16.4	10.9	5.6
-90°	4.4	4.4	4.4	4.4	4.4	5.0	5.6

(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

