

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: P731231 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-80-4S-HEG**

Issue Date: 11/16/2023

Test Information

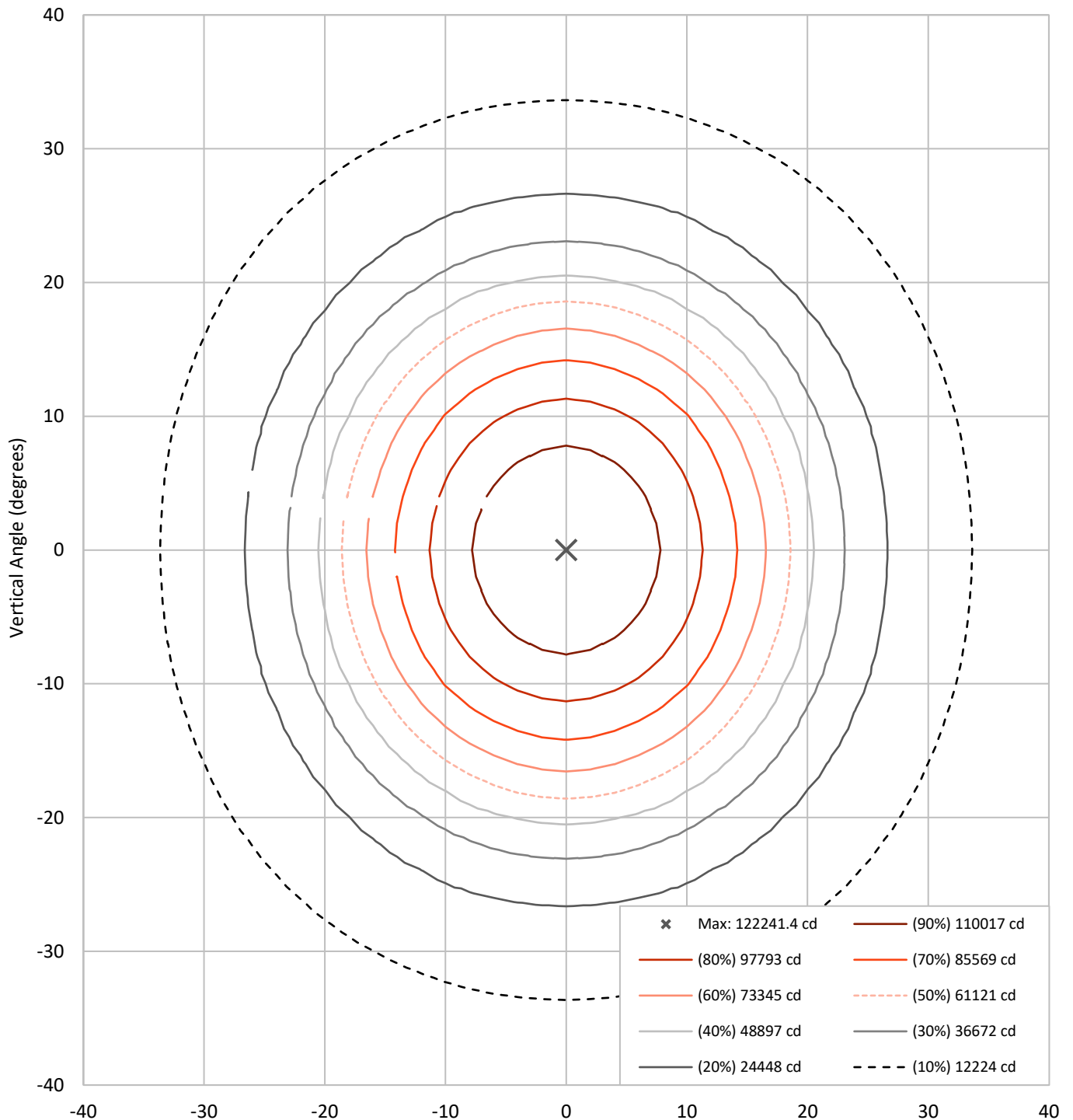
Test Method: LM-79-08
Report Number: P731231 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-57-80-4S-HEG
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 4S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	56452.2 lumens	Max Intensity:	122241.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	163.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	37.2°H x 37.2°V	Field Angle (10%):	67.2°H x 67.2°V
Beam Lumens:	29388.5 lumens	Field Lumens:	49367.8 lumens
Beam Efficiency:	52.1%	Field Efficiency:	87.5%
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		

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CATALOG NUMBER: EPH-LS-08-0320N-57-80-4S-HEG

Iso-Candela Plot





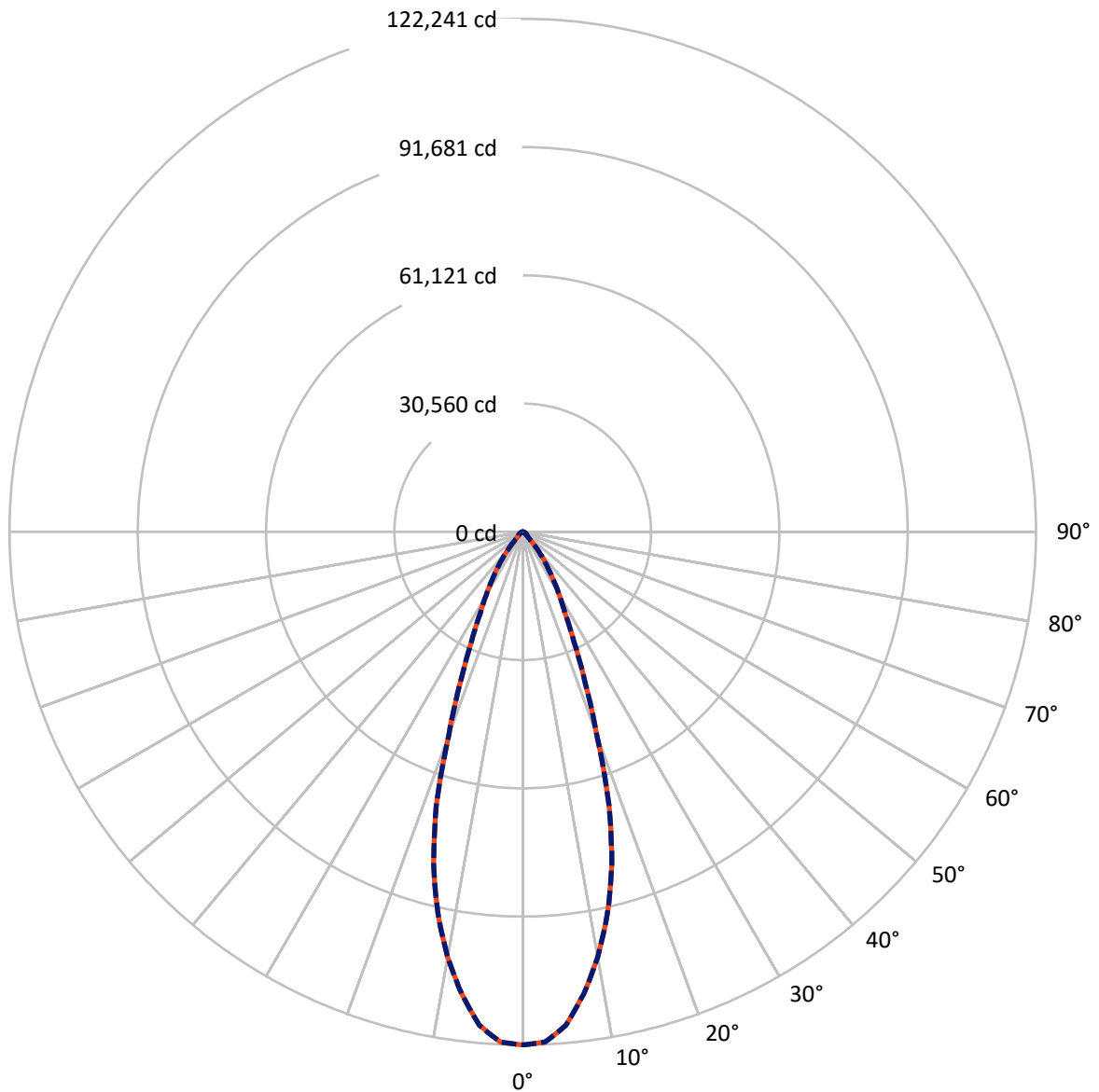
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 CATALOG NUMBER: EPH-LS-08-0320N-57-80-4S-HEG

Lumen Table

90																
80	0.1	0.4		1.7		4.0		5.2		4.0		1.7		0.4		0.1
70																
60	0.2	0.3	1.0	2.8	5.9	9.5	12.8	14.6	14.6	12.8	9.5	5.9	2.8	1.0	0.3	0.2
50		0.8	3.3	9.1	16.7	23.5	28.4	31.2	31.2	28.4	23.5	16.7	9.1	3.3	0.8	
40	0.6	1.7	7.4	16.9	26.3	36.5	52.4	69.2	69.2	52.4	36.5	26.3	16.9	7.4	1.7	0.6
30		3.1	11.8	22.8	39.5	106.2	224.7	311.7	311.7	224.7	106.2	39.5	22.8	11.8	3.1	
20	1.2	4.6	15.0	28.6	96.7	302.1	590.8	878.5	878.5	590.8	302.1	96.7	28.6	15.0	4.6	1.2
10		5.8	17.0	38.8	192.5	556.3	1377.7	2261.5	2261.5	1377.7	556.3	192.5	38.8	17.0	5.8	
0	1.4	6.4	18.1	50.1	259.0	804.4	2197.6	3310.2	3310.2	2197.6	804.4	259.0	50.1	18.1	6.4	1.4
-10		6.4	18.1	50.1	259.0	804.4	2197.6	3310.2	3310.2	2197.6	804.4	259.0	50.1	18.1	6.4	
-20	1.2	5.8	17.0	38.8	192.5	556.3	1377.7	2261.5	2261.5	1377.7	556.3	192.5	38.8	17.0	5.8	1.2
-30		4.6	15.0	28.6	96.7	302.1	590.8	878.5	878.5	590.8	302.1	96.7	28.6	15.0	4.6	
-40	0.6	3.1	11.8	22.8	39.5	106.2	224.7	311.7	311.7	224.7	106.2	39.5	22.8	11.8	3.1	0.6
-50		1.7	7.4	16.9	26.3	36.5	52.4	69.2	69.2	52.4	36.5	26.3	16.9	7.4	1.7	
-60	0.2	0.8	3.3	9.1	16.7	23.5	28.4	31.2	31.2	28.4	23.5	16.7	9.1	3.3	0.8	0.2
-70		0.3	1.0	2.8	5.9	9.5	12.8	14.6	14.6	12.8	9.5	5.9	2.8	1.0	0.3	
-80																
-90	0.1	0.4		1.7		4.0		5.2		4.0		1.7		0.4		0.1

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CATALOG NUMBER: EPH-LS-08-0320N-57-80-4S-HEG

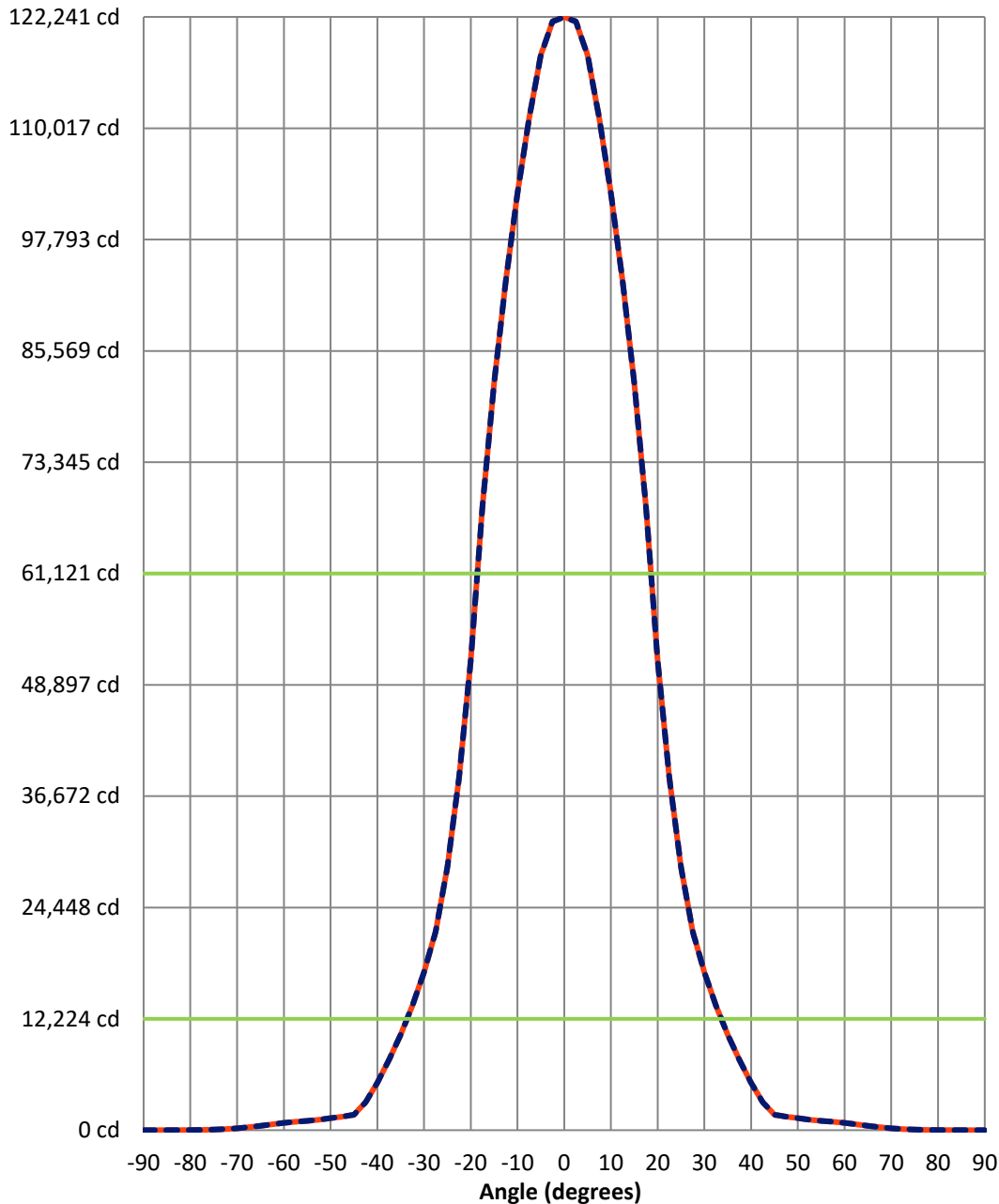
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 37.2°
V Angle: 37.2°
Lumens: 29388.5
Efficiency: 52.1%

Field:
H Angle: 67.2°
V Angle: 67.2°
Lumens: 49367.8
Efficiency: 87.5%

Spill:
Lumens: 7084.4
Efficiency: 12.5%

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



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.1	0.2	0.4	0.5	0.6	0.7	0.8	1.0	1.1	1.2
85°	0.0	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.4
82.5°	0.0	0.4	0.7	1.1	1.5	1.8	2.2	2.5	2.9	3.2	3.5
80°	0.0	0.5	1.0	1.5	1.9	2.4	2.9	3.4	3.8	4.3	4.7
77.5°	0.0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.3	6.1
75°	0.0	0.7	1.4	2.2	2.9	3.6	4.3	5.0	5.7	6.9	8.0
72.5°	0.0	0.8	1.7	2.5	3.4	4.2	5.0	6.0	7.3	8.6	9.9
70°	0.0	1.0	1.9	2.9	3.8	4.8	5.7	7.3	8.8	10.3	11.8
67.5°	0.0	1.1	2.1	3.2	4.3	5.3	6.9	8.6	10.3	12.0	13.7
65°	0.0	1.2	2.4	3.5	4.7	6.1	8.0	9.9	11.8	13.7	16.7
62.5°	0.0	1.3	2.6	3.9	5.2	7.0	9.1	11.2	13.3	16.1	22.6
60°	0.0	1.4	2.8	4.2	5.6	7.9	10.2	12.5	14.7	21.2	28.3
57.5°	0.0	1.5	3.0	4.5	6.3	8.8	11.2	13.7	18.6	26.3	39.2
55°	0.0	1.6	3.2	4.8	6.9	9.6	12.3	14.9	22.9	32.7	52.5
52.5°	0.0	1.7	3.4	5.1	7.6	10.4	13.2	18.3	27.2	44.3	65.4
50°	0.0	1.8	3.6	5.4	8.2	11.2	14.2	21.9	33.0	55.6	82.2
47.5°	0.0	1.9	3.8	5.7	8.9	12.0	15.4	25.4	42.7	66.5	99.0
45°	0.0	2.0	4.0	6.2	9.5	12.8	18.3	28.8	52.0	80.9	115.2
42.5°	0.0	2.1	4.1	6.6	10.0	13.5	21.0	34.6	60.9	94.9	140.1
40°	0.0	2.1	4.3	7.0	10.6	14.1	23.7	42.1	70.5	108.3	165.5
37.5°	0.0	2.2	4.4	7.4	11.1	14.8	26.2	49.2	81.8	123.5	189.7
35°	0.0	2.3	4.6	7.7	11.6	16.3	28.5	55.9	92.5	144.1	216.5
32.5°	0.0	2.4	4.7	8.1	12.0	18.1	31.7	62.2	102.6	163.4	247.6
30°	0.0	2.4	4.8	8.4	12.5	19.9	36.7	68.6	112.0	181.6	276.8
27.5°	0.0	2.5	5.0	8.7	12.9	21.5	41.4	76.2	123.0	198.5	304.0
25°	0.0	2.5	5.1	9.0	13.2	22.9	45.7	83.3	136.8	218.5	329.3
22.5°	0.0	2.6	5.2	9.2	13.6	24.3	49.6	89.7	149.3	238.9	356.8
20°	0.0	2.6	5.3	9.4	13.9	25.5	53.2	95.4	160.6	257.3	381.7
17.5°	0.0	2.7	5.3	9.6	14.1	26.6	56.3	100.5	170.6	273.7	403.9
15°	0.0	2.7	5.4	9.8	14.4	27.5	59.1	105.0	179.4	288.0	423.2
12.5°	0.0	2.7	5.5	10.0	14.5	28.3	61.4	108.8	186.8	300.1	439.6
10°	0.0	2.8	5.5	10.1	14.7	28.9	63.3	111.9	193.0	310.1	453.2
7.5°	0.0	2.8	5.6	10.2	14.8	29.4	64.8	114.4	197.7	317.9	463.8
5°	0.0	2.8	5.6	10.2	14.9	29.8	65.8	116.1	201.2	323.5	471.3
2.5°	0.0	2.8	5.6	10.3	15.0	30.0	66.5	117.2	203.2	326.9	475.9
0°	0.0	2.8	5.6	10.3	15.0	30.1	66.7	117.5	203.9	328.0	477.4
-2.5°	0.0	2.8	5.6	10.3	15.0	30.0	66.5	117.2	203.2	326.9	475.9
-5°	0.0	2.8	5.6	10.2	14.9	29.8	65.8	116.1	201.2	323.5	471.3
-7.5°	0.0	2.8	5.6	10.2	14.8	29.4	64.8	114.4	197.7	317.9	463.8
-10°	0.0	2.8	5.5	10.1	14.7	28.9	63.3	111.9	193.0	310.1	453.2
-12.5°	0.0	2.7	5.5	10.0	14.5	28.3	61.4	108.8	186.8	300.1	439.6
-15°	0.0	2.7	5.4	9.8	14.4	27.5	59.1	105.0	179.4	288.0	423.2
-17.5°	0.0	2.7	5.3	9.6	14.1	26.6	56.3	100.5	170.6	273.7	403.9
-20°	0.0	2.6	5.3	9.4	13.9	25.5	53.2	95.4	160.6	257.3	381.7



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 CATALOG NUMBER: EPH-LS-08-0320N-57-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	2.6	5.2	9.2	13.6	24.3	49.6	89.7	149.3	238.9	356.8
-25°	0.0	2.5	5.1	9.0	13.2	22.9	45.7	83.3	136.8	218.5	329.3
-27.5°	0.0	2.5	5.0	8.7	12.9	21.5	41.4	76.2	123.0	198.5	304.0
-30°	0.0	2.4	4.8	8.4	12.5	19.9	36.7	68.6	112.0	181.6	276.8
-32.5°	0.0	2.4	4.7	8.1	12.0	18.1	31.7	62.2	102.6	163.4	247.6
-35°	0.0	2.3	4.6	7.7	11.6	16.3	28.5	55.9	92.5	144.1	216.5
-37.5°	0.0	2.2	4.4	7.4	11.1	14.8	26.2	49.2	81.8	123.5	189.7
-40°	0.0	2.1	4.3	7.0	10.6	14.1	23.7	42.1	70.5	108.3	165.5
-42.5°	0.0	2.1	4.1	6.6	10.0	13.5	21.0	34.6	60.9	94.9	140.1
-45°	0.0	2.0	4.0	6.2	9.5	12.8	18.3	28.8	52.0	80.9	115.2
-47.5°	0.0	1.9	3.8	5.7	8.9	12.0	15.4	25.4	42.7	66.5	99.0
-50°	0.0	1.8	3.6	5.4	8.2	11.2	14.2	21.9	33.0	55.6	82.2
-52.5°	0.0	1.7	3.4	5.1	7.6	10.4	13.2	18.3	27.2	44.3	65.4
-55°	0.0	1.6	3.2	4.8	6.9	9.6	12.3	14.9	22.9	32.7	52.5
-57.5°	0.0	1.5	3.0	4.5	6.3	8.8	11.2	13.7	18.6	26.3	39.2
-60°	0.0	1.4	2.8	4.2	5.6	7.9	10.2	12.5	14.7	21.2	28.3
-62.5°	0.0	1.3	2.6	3.9	5.2	7.0	9.1	11.2	13.3	16.1	22.6
-65°	0.0	1.2	2.4	3.5	4.7	6.1	8.0	9.9	11.8	13.7	16.7
-67.5°	0.0	1.1	2.1	3.2	4.3	5.3	6.9	8.6	10.3	12.0	13.7
-70°	0.0	1.0	1.9	2.9	3.8	4.8	5.7	7.3	8.8	10.3	11.8
-72.5°	0.0	0.8	1.7	2.5	3.4	4.2	5.0	6.0	7.3	8.6	9.9
-75°	0.0	0.7	1.4	2.2	2.9	3.6	4.3	5.0	5.7	6.9	8.0
-77.5°	0.0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.3	6.1
-80°	0.0	0.5	1.0	1.5	1.9	2.4	2.9	3.4	3.8	4.3	4.7
-82.5°	0.0	0.4	0.7	1.1	1.5	1.8	2.2	2.5	2.9	3.2	3.5
-85°	0.0	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.4
-87.5°	0.0	0.1	0.2	0.4	0.5	0.6	0.7	0.8	1.0	1.1	1.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: EPH-LS-08-0320N-57-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.1	2.2
85°	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.1	4.3	4.4
82.5°	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.2	6.6	7.0	7.4
80°	5.2	5.6	6.3	6.9	7.6	8.2	8.9	9.5	10.0	10.6	11.1
77.5°	7.0	7.9	8.8	9.6	10.4	11.2	12.0	12.8	13.5	14.1	14.8
75°	9.1	10.2	11.2	12.3	13.2	14.2	15.4	18.3	21.0	23.7	26.2
72.5°	11.2	12.5	13.7	14.9	18.3	21.9	25.4	28.8	34.6	42.1	49.2
70°	13.3	14.7	18.6	22.9	27.2	33.0	42.7	52.0	60.9	70.5	81.8
67.5°	16.1	21.2	26.3	32.7	44.3	55.6	66.5	80.9	94.9	108.3	123.5
65°	22.6	28.3	39.2	52.5	65.4	82.2	99.0	115.2	140.1	165.5	189.7
62.5°	29.0	42.5	57.4	74.0	93.6	112.7	140.9	171.3	200.6	239.4	277.8
60°	42.5	59.1	78.6	100.5	125.1	160.6	195.0	238.9	284.9	329.3	380.0
57.5°	57.4	78.6	102.9	133.0	172.5	214.0	267.6	319.5	378.0	435.9	492.8
55°	74.0	100.5	133.0	176.5	225.6	285.0	345.9	413.3	478.5	548.2	615.0
52.5°	93.6	125.1	172.5	225.6	290.9	360.0	434.7	510.4	588.4	662.7	731.9
50°	112.7	160.6	214.0	285.0	360.0	441.8	526.5	612.7	694.1	771.5	835.8
47.5°	140.9	195.0	267.6	345.9	434.7	526.5	620.8	709.9	795.5	860.5	921.2
45°	171.3	238.9	319.5	413.3	510.4	612.7	709.9	803.5	872.9	936.9	987.3
42.5°	200.6	284.9	378.0	478.5	588.4	694.1	795.5	872.9	941.8	997.3	1060.8
40°	239.4	329.3	435.9	548.2	662.7	771.5	860.5	936.9	997.3	1067.5	1142.8
37.5°	277.8	380.0	492.8	615.0	731.9	835.8	921.2	987.3	1060.8	1142.8	1253.5
35°	314.3	428.3	551.4	677.2	797.9	890.0	967.5	1040.6	1129.0	1243.6	1357.9
32.5°	353.1	473.9	606.9	735.1	847.1	938.1	1010.5	1101.7	1213.9	1339.7	1451.0
30°	392.0	521.2	658.4	789.7	892.2	976.0	1061.3	1165.1	1301.4	1423.2	1561.2
27.5°	428.3	565.7	705.3	831.9	932.5	1011.5	1112.1	1242.0	1377.6	1509.4	1677.0
25°	461.8	606.9	748.6	868.0	963.0	1052.4	1164.6	1313.8	1446.6	1611.0	2232.8
22.5°	494.2	644.5	788.3	901.2	991.1	1092.7	1226.1	1374.2	1520.7	1728.6	2867.2
20°	525.0	677.2	819.3	930.0	1016.5	1129.3	1282.1	1428.3	1600.9	2269.9	3665.3
17.5°	552.4	706.4	843.8	950.8	1045.4	1168.5	1331.4	1476.9	1673.0	2758.3	4488.1
15°	576.4	731.9	865.3	969.1	1071.8	1209.1	1370.8	1533.4	1925.1	3259.4	5221.5
12.5°	596.8	753.6	883.5	984.7	1094.4	1243.8	1404.6	1583.8	2267.9	3839.8	5965.1
10°	613.6	771.5	898.6	997.5	1113.0	1272.5	1432.6	1625.6	2552.1	4322.1	6584.2
7.5°	626.7	785.4	910.4	1007.6	1127.6	1295.0	1454.5	1658.3	2775.7	4702.0	7072.9
5°	636.2	795.5	918.8	1014.8	1138.1	1311.1	1470.2	1681.9	2936.7	4976.0	7425.8
2.5°	641.8	801.5	923.9	1019.1	1144.4	1320.9	1479.7	1696.1	3033.9	5141.5	7639.2
0°	643.7	803.5	925.6	1020.6	1146.5	1324.1	1482.9	1700.9	3066.4	5196.8	7710.6
-2.5°	641.8	801.5	923.9	1019.1	1144.4	1320.9	1479.7	1696.1	3033.9	5141.5	7639.2
-5°	636.2	795.5	918.8	1014.8	1138.1	1311.1	1470.2	1681.9	2936.7	4976.0	7425.8
-7.5°	626.7	785.4	910.4	1007.6	1127.6	1295.0	1454.5	1658.3	2775.7	4702.0	7072.9
-10°	613.6	771.5	898.6	997.5	1113.0	1272.5	1432.6	1625.6	2552.1	4322.1	6584.2
-12.5°	596.8	753.6	883.5	984.7	1094.4	1243.8	1404.6	1583.8	2267.9	3839.8	5965.1
-15°	576.4	731.9	865.3	969.1	1071.8	1209.1	1370.8	1533.4	1925.1	3259.4	5221.5
-17.5°	552.4	706.4	843.8	950.8	1045.4	1168.5	1331.4	1476.9	1673.0	2758.3	4488.1
-20°	525.0	677.2	819.3	930.0	1016.5	1129.3	1282.1	1428.3	1600.9	2269.9	3665.3



REPORT NUMBER: P731231 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	494.2	644.5	788.3	901.2	991.1	1092.7	1226.1	1374.2	1520.7	1728.6	2867.2
-25°	461.8	606.9	748.6	868.0	963.0	1052.4	1164.6	1313.8	1446.6	1611.0	2232.8
-27.5°	428.3	565.7	705.3	831.9	932.5	1011.5	1112.1	1242.0	1377.6	1509.4	1677.0
-30°	392.0	521.2	658.4	789.7	892.2	976.0	1061.3	1165.1	1301.4	1423.2	1561.2
-32.5°	353.1	473.9	606.9	735.1	847.1	938.1	1010.5	1101.7	1213.9	1339.7	1451.0
-35°	314.3	428.3	551.4	677.2	797.9	890.0	967.5	1040.6	1129.0	1243.6	1357.9
-37.5°	277.8	380.0	492.8	615.0	731.9	835.8	921.2	987.3	1060.8	1142.8	1253.5
-40°	239.4	329.3	435.9	548.2	662.7	771.5	860.5	936.9	997.3	1067.5	1142.8
-42.5°	200.6	284.9	378.0	478.5	588.4	694.1	795.5	872.9	941.8	997.3	1060.8
-45°	171.3	238.9	319.5	413.3	510.4	612.7	709.9	803.5	872.9	936.9	987.3
-47.5°	140.9	195.0	267.6	345.9	434.7	526.5	620.8	709.9	795.5	860.5	921.2
-50°	112.7	160.6	214.0	285.0	360.0	441.8	526.5	612.7	694.1	771.5	835.8
-52.5°	93.6	125.1	172.5	225.6	290.9	360.0	434.7	510.4	588.4	662.7	731.9
-55°	74.0	100.5	133.0	176.5	225.6	285.0	345.9	413.3	478.5	548.2	615.0
-57.5°	57.4	78.6	102.9	133.0	172.5	214.0	267.6	319.5	378.0	435.9	492.8
-60°	42.5	59.1	78.6	100.5	125.1	160.6	195.0	238.9	284.9	329.3	380.0
-62.5°	29.0	42.5	57.4	74.0	93.6	112.7	140.9	171.3	200.6	239.4	277.8
-65°	22.6	28.3	39.2	52.5	65.4	82.2	99.0	115.2	140.1	165.5	189.7
-67.5°	16.1	21.2	26.3	32.7	44.3	55.6	66.5	80.9	94.9	108.3	123.5
-70°	13.3	14.7	18.6	22.9	27.2	33.0	42.7	52.0	60.9	70.5	81.8
-72.5°	11.2	12.5	13.7	14.9	18.3	21.9	25.4	28.8	34.6	42.1	49.2
-75°	9.1	10.2	11.2	12.3	13.2	14.2	15.4	18.3	21.0	23.7	26.2
-77.5°	7.0	7.9	8.8	9.6	10.4	11.2	12.0	12.8	13.5	14.1	14.8
-80°	5.2	5.6	6.3	6.9	7.6	8.2	8.9	9.5	10.0	10.6	11.1
-82.5°	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.2	6.6	7.0	7.4
-85°	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.1	4.3	4.4
-87.5°	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.1	2.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731231 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	2.4	2.4	2.5	2.5	2.6	2.6	2.7	2.7	2.7	2.8
85°	4.6	4.7	4.8	5.0	5.1	5.2	5.3	5.3	5.4	5.5	5.5
82.5°	7.7	8.1	8.4	8.7	9.0	9.2	9.4	9.6	9.8	10.0	10.1
80°	11.6	12.0	12.5	12.9	13.2	13.6	13.9	14.1	14.4	14.5	14.7
77.5°	16.3	18.1	19.9	21.5	22.9	24.3	25.5	26.6	27.5	28.3	28.9
75°	28.5	31.7	36.7	41.4	45.7	49.6	53.2	56.3	59.1	61.4	63.3
72.5°	55.9	62.2	68.6	76.2	83.3	89.7	95.4	100.5	105.0	108.8	111.9
70°	92.5	102.6	112.0	123.0	136.8	149.3	160.6	170.6	179.4	186.8	193.0
67.5°	144.1	163.4	181.6	198.5	218.5	238.9	257.3	273.7	288.0	300.1	310.1
65°	216.5	247.6	276.8	304.0	329.3	356.8	381.7	403.9	423.2	439.6	453.2
62.5°	314.3	353.1	392.0	428.3	461.8	494.2	525.0	552.4	576.4	596.8	613.6
60°	428.3	473.9	521.2	565.7	606.9	644.5	677.2	706.4	731.9	753.6	771.5
57.5°	551.4	606.9	658.4	705.3	748.6	788.3	819.3	843.8	865.3	883.5	898.6
55°	677.2	735.1	789.7	831.9	868.0	901.2	930.0	950.8	969.1	984.7	997.5
52.5°	797.9	847.1	892.2	932.5	963.0	991.1	1016.5	1045.4	1071.8	1094.4	1113.0
50°	890.0	938.1	976.0	1011.5	1052.4	1092.7	1129.3	1168.5	1209.1	1243.8	1272.5
47.5°	967.5	1010.5	1061.3	1112.1	1164.6	1226.1	1282.1	1331.4	1370.8	1404.6	1432.6
45°	1040.6	1101.7	1165.1	1242.0	1313.8	1374.2	1428.3	1476.9	1533.4	1583.8	1625.6
42.5°	1129.0	1213.9	1301.4	1377.6	1446.6	1520.7	1600.9	1673.0	1925.1	2267.9	2552.1
40°	1243.6	1339.7	1423.2	1509.4	1611.0	1728.6	2269.9	2758.3	3259.4	3839.8	4322.1
37.5°	1357.9	1451.0	1561.2	1677.0	2232.8	2867.2	3665.3	4488.1	5221.5	5965.1	6584.2
35°	1460.4	1587.4	1802.8	2575.8	3438.4	4500.3	5530.2	6578.6	7511.1	8380.3	9123.0
32.5°	1587.4	1887.4	2749.5	3855.4	5070.0	6390.0	7632.6	8871.3	9984.1	11020.0	11947.9
30°	1802.8	2749.5	3995.6	5388.0	6916.3	8419.3	9890.6	11346.8	12729.0	13981.9	15161.7
27.5°	2575.8	3855.4	5388.0	7093.6	8823.1	10522.0	12333.0	14054.8	15799.8	17330.5	18905.9
25°	3438.4	5070.0	6916.3	8823.1	10763.8	12835.6	14964.9	17056.8	19307.6	21348.2	23792.9
22.5°	4500.3	6390.0	8419.3	10522.0	12835.6	15272.7	17779.5	20534.8	23742.8	27252.0	30790.9
20°	5530.2	7632.6	9890.6	12333.0	14964.9	17779.5	20951.0	25116.8	29620.3	34985.5	39903.2
17.5°	6578.6	8871.3	11346.8	14054.8	17056.8	20534.8	25116.8	30645.8	37160.2	44423.2	51192.3
15°	7511.1	9984.1	12729.0	15799.8	19307.6	23742.8	29620.3	37160.2	45973.6	55407.3	65298.3
12.5°	8380.3	11020.0	13981.9	17330.5	21348.2	27252.0	34985.5	44423.2	55407.3	67700.6	76796.7
10°	9123.0	11947.9	15161.7	18905.9	23792.9	30790.9	39903.2	51192.3	65298.3	76796.7	86168.3
7.5°	9710.4	12683.9	16100.6	20166.1	25979.4	34172.9	44863.9	58370.3	72592.5	84114.0	93328.3
5°	10135.5	13217.7	16783.4	21085.8	27582.0	36666.3	48549.3	63851.8	77691.3	89132.0	98434.8
2.5°	10392.8	13541.3	17198.2	21645.8	28561.0	38195.9	50823.5	67261.9	80901.7	92211.2	101705.7
0°	10479.0	13649.7	17337.3	21833.9	28890.4	38711.7	51592.7	68420.6	81999.9	93232.2	102862.1
-2.5°	10392.8	13541.3	17198.2	21645.8	28561.0	38195.9	50823.5	67261.9	80901.7	92211.2	101705.7
-5°	10135.5	13217.7	16783.4	21085.8	27582.0	36666.3	48549.3	63851.8	77691.3	89132.0	98434.8
-7.5°	9710.4	12683.9	16100.6	20166.1	25979.4	34172.9	44863.9	58370.3	72592.5	84114.0	93328.3
-10°	9123.0	11947.9	15161.7	18905.9	23792.9	30790.9	39903.2	51192.3	65298.3	76796.7	86168.3
-12.5°	8380.3	11020.0	13981.9	17330.5	21348.2	27252.0	34985.5	44423.2	55407.3	67700.6	76796.7
-15°	7511.1	9984.1	12729.0	15799.8	19307.6	23742.8	29620.3	37160.2	45973.6	55407.3	65298.3
-17.5°	6578.6	8871.3	11346.8	14054.8	17056.8	20534.8	25116.8	30645.8	37160.2	44423.2	51192.3
-20°	5530.2	7632.6	9890.6	12333.0	14964.9	17779.5	20951.0	25116.8	29620.3	34985.5	39903.2



REPORT NUMBER: P731231 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	4500.3	6390.0	8419.3	10522.0	12835.6	15272.7	17779.5	20534.8	23742.8	27252.0	30790.9
-25°	3438.4	5070.0	6916.3	8823.1	10763.8	12835.6	14964.9	17056.8	19307.6	21348.2	23792.9
-27.5°	2575.8	3855.4	5388.0	7093.6	8823.1	10522.0	12333.0	14054.8	15799.8	17330.5	18905.9
-30°	1802.8	2749.5	3995.6	5388.0	6916.3	8419.3	9890.6	11346.8	12729.0	13981.9	15161.7
-32.5°	1587.4	1887.4	2749.5	3855.4	5070.0	6390.0	7632.6	8871.3	9984.1	11020.0	11947.9
-35°	1460.4	1587.4	1802.8	2575.8	3438.4	4500.3	5530.2	6578.6	7511.1	8380.3	9123.0
-37.5°	1357.9	1451.0	1561.2	1677.0	2232.8	2867.2	3665.3	4488.1	5221.5	5965.1	6584.2
-40°	1243.6	1339.7	1423.2	1509.4	1611.0	1728.6	2269.9	2758.3	3259.4	3839.8	4322.1
-42.5°	1129.0	1213.9	1301.4	1377.6	1446.6	1520.7	1600.9	1673.0	1925.1	2267.9	2552.1
-45°	1040.6	1101.7	1165.1	1242.0	1313.8	1374.2	1428.3	1476.9	1533.4	1583.8	1625.6
-47.5°	967.5	1010.5	1061.3	1112.1	1164.6	1226.1	1282.1	1331.4	1370.8	1404.6	1432.6
-50°	890.0	938.1	976.0	1011.5	1052.4	1092.7	1129.3	1168.5	1209.1	1243.8	1272.5
-52.5°	797.9	847.1	892.2	932.5	963.0	991.1	1016.5	1045.4	1071.8	1094.4	1113.0
-55°	677.2	735.1	789.7	831.9	868.0	901.2	930.0	950.8	969.1	984.7	997.5
-57.5°	551.4	606.9	658.4	705.3	748.6	788.3	819.3	843.8	865.3	883.5	898.6
-60°	428.3	473.9	521.2	565.7	606.9	644.5	677.2	706.4	731.9	753.6	771.5
-62.5°	314.3	353.1	392.0	428.3	461.8	494.2	525.0	552.4	576.4	596.8	613.6
-65°	216.5	247.6	276.8	304.0	329.3	356.8	381.7	403.9	423.2	439.6	453.2
-67.5°	144.1	163.4	181.6	198.5	218.5	238.9	257.3	273.7	288.0	300.1	310.1
-70°	92.5	102.6	112.0	123.0	136.8	149.3	160.6	170.6	179.4	186.8	193.0
-72.5°	55.9	62.2	68.6	76.2	83.3	89.7	95.4	100.5	105.0	108.8	111.9
-75°	28.5	31.7	36.7	41.4	45.7	49.6	53.2	56.3	59.1	61.4	63.3
-77.5°	16.3	18.1	19.9	21.5	22.9	24.3	25.5	26.6	27.5	28.3	28.9
-80°	11.6	12.0	12.5	12.9	13.2	13.6	13.9	14.1	14.4	14.5	14.7
-82.5°	7.7	8.1	8.4	8.7	9.0	9.2	9.4	9.6	9.8	10.0	10.1
-85°	4.6	4.7	4.8	5.0	5.1	5.2	5.3	5.3	5.4	5.5	5.5
-87.5°	2.3	2.4	2.4	2.5	2.5	2.6	2.6	2.7	2.7	2.7	2.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731231 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.7
85°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.5	5.5	5.4	5.3
82.5°	10.2	10.2	10.3	10.3	10.3	10.2	10.2	10.1	10.0	9.8	9.6
80°	14.8	14.9	15.0	15.0	15.0	14.9	14.8	14.7	14.5	14.4	14.1
77.5°	29.4	29.8	30.0	30.1	30.0	29.8	29.4	28.9	28.3	27.5	26.6
75°	64.8	65.8	66.5	66.7	66.5	65.8	64.8	63.3	61.4	59.1	56.3
72.5°	114.4	116.1	117.2	117.5	117.2	116.1	114.4	111.9	108.8	105.0	100.5
70°	197.7	201.2	203.2	203.9	203.2	201.2	197.7	193.0	186.8	179.4	170.6
67.5°	317.9	323.5	326.9	328.0	326.9	323.5	317.9	310.1	300.1	288.0	273.7
65°	463.8	471.3	475.9	477.4	475.9	471.3	463.8	453.2	439.6	423.2	403.9
62.5°	626.7	636.2	641.8	643.7	641.8	636.2	626.7	613.6	596.8	576.4	552.4
60°	785.4	795.5	801.5	803.5	801.5	795.5	785.4	771.5	753.6	731.9	706.4
57.5°	910.4	918.8	923.9	925.6	923.9	918.8	910.4	898.6	883.5	865.3	843.8
55°	1007.6	1014.8	1019.1	1020.6	1019.1	1014.8	1007.6	997.5	984.7	969.1	950.8
52.5°	1127.6	1138.1	1144.4	1146.5	1144.4	1138.1	1127.6	1113.0	1094.4	1071.8	1045.4
50°	1295.0	1311.1	1320.9	1324.1	1320.9	1311.1	1295.0	1272.5	1243.8	1209.1	1168.5
47.5°	1454.5	1470.2	1479.7	1482.9	1479.7	1470.2	1454.5	1432.6	1404.6	1370.8	1331.4
45°	1658.3	1681.9	1696.1	1700.9	1696.1	1681.9	1658.3	1625.6	1583.8	1533.4	1476.9
42.5°	2775.7	2936.7	3033.9	3066.4	3033.9	2936.7	2775.7	2552.1	2267.9	1925.1	1673.0
40°	4702.0	4976.0	5141.5	5196.8	5141.5	4976.0	4702.0	4322.1	3839.8	3259.4	2758.3
37.5°	7072.9	7425.8	7639.2	7710.6	7639.2	7425.8	7072.9	6584.2	5965.1	5221.5	4488.1
35°	9710.4	10135.5	10392.8	10479.0	10392.8	10135.5	9710.4	9123.0	8380.3	7511.1	6578.6
32.5°	12683.9	13217.7	13541.3	13649.7	13541.3	13217.7	12683.9	11947.9	11020.0	9984.1	8871.3
30°	16100.6	16783.4	17198.2	17337.3	17198.2	16783.4	16100.6	15161.7	13981.9	12729.0	11346.8
27.5°	20166.1	21085.8	21645.8	21833.9	21645.8	21085.8	20166.1	18905.9	17330.5	15799.8	14054.8
25°	25979.4	27582.0	28561.0	28890.4	28561.0	27582.0	25979.4	23792.9	21348.2	19307.6	17056.8
22.5°	34172.9	36666.3	38195.9	38711.7	38195.9	36666.3	34172.9	30790.9	27252.0	23742.8	20534.8
20°	44863.9	48549.3	50823.5	51592.7	50823.5	48549.3	44863.9	39903.2	34985.5	29620.3	25116.8
17.5°	58370.3	63851.8	67261.9	68420.6	67261.9	63851.8	58370.3	51192.3	44423.2	37160.2	30645.8
15°	72592.5	77691.3	80901.7	81999.9	80901.7	77691.3	72592.5	65298.3	55407.3	45973.6	37160.2
12.5°	84114.0	89132.0	92211.2	93232.2	92211.2	89132.0	84114.0	76796.7	67700.6	55407.3	44423.2
10°	93328.3	98434.8	101705.7	102862.1	101705.7	98434.8	93328.3	86168.3	76796.7	65298.3	51192.3
7.5°	100617.3	106381.1	109872.1	111114.5	109872.1	106381.1	100617.3	93328.3	84114.0	72592.5	58370.3
5°	106381.1	112449.2	116581.1	118035.1	116581.1	112449.2	106381.1	98434.8	89132.0	77691.3	63851.8
2.5°	109872.1	116581.1	120572.6	121719.4	120572.6	116581.1	109872.1	101705.7	92211.2	80901.7	67261.9
0°	111114.5	118035.1	121719.4	122241.4	121719.4	118035.1	111114.5	102862.1	93232.2	81999.9	68420.6
-2.5°	109872.1	116581.1	120572.6	121719.4	120572.6	116581.1	109872.1	101705.7	92211.2	80901.7	67261.9
-5°	106381.1	112449.2	116581.1	118035.1	116581.1	112449.2	106381.1	98434.8	89132.0	77691.3	63851.8
-7.5°	100617.3	106381.1	109872.1	111114.5	109872.1	106381.1	100617.3	93328.3	84114.0	72592.5	58370.3
-10°	93328.3	98434.8	101705.7	102862.1	101705.7	98434.8	93328.3	86168.3	76796.7	65298.3	51192.3
-12.5°	84114.0	89132.0	92211.2	93232.2	92211.2	89132.0	84114.0	76796.7	67700.6	55407.3	44423.2
-15°	72592.5	77691.3	80901.7	81999.9	80901.7	77691.3	72592.5	65298.3	55407.3	45973.6	37160.2
-17.5°	58370.3	63851.8	67261.9	68420.6	67261.9	63851.8	58370.3	51192.3	44423.2	37160.2	30645.8
-20°	44863.9	48549.3	50823.5	51592.7	50823.5	48549.3	44863.9	39903.2	34985.5	29620.3	25116.8



REPORT NUMBER: P731231 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	34172.9	36666.3	38195.9	38711.7	38195.9	36666.3	34172.9	30790.9	27252.0	23742.8	20534.8
-25°	25979.4	27582.0	28561.0	28890.4	28561.0	27582.0	25979.4	23792.9	21348.2	19307.6	17056.8
-27.5°	20166.1	21085.8	21645.8	21833.9	21645.8	21085.8	20166.1	18905.9	17330.5	15799.8	14054.8
-30°	16100.6	16783.4	17198.2	17337.3	17198.2	16783.4	16100.6	15161.7	13981.9	12729.0	11346.8
-32.5°	12683.9	13217.7	13541.3	13649.7	13541.3	13217.7	12683.9	11947.9	11020.0	9984.1	8871.3
-35°	9710.4	10135.5	10392.8	10479.0	10392.8	10135.5	9710.4	9123.0	8380.3	7511.1	6578.6
-37.5°	7072.9	7425.8	7639.2	7710.6	7639.2	7425.8	7072.9	6584.2	5965.1	5221.5	4488.1
-40°	4702.0	4976.0	5141.5	5196.8	5141.5	4976.0	4702.0	4322.1	3839.8	3259.4	2758.3
-42.5°	2775.7	2936.7	3033.9	3066.4	3033.9	2936.7	2775.7	2552.1	2267.9	1925.1	1673.0
-45°	1658.3	1681.9	1696.1	1700.9	1696.1	1681.9	1658.3	1625.6	1583.8	1533.4	1476.9
-47.5°	1454.5	1470.2	1479.7	1482.9	1479.7	1470.2	1454.5	1432.6	1404.6	1370.8	1331.4
-50°	1295.0	1311.1	1320.9	1324.1	1320.9	1311.1	1295.0	1272.5	1243.8	1209.1	1168.5
-52.5°	1127.6	1138.1	1144.4	1146.5	1144.4	1138.1	1127.6	1113.0	1094.4	1071.8	1045.4
-55°	1007.6	1014.8	1019.1	1020.6	1019.1	1014.8	1007.6	997.5	984.7	969.1	950.8
-57.5°	910.4	918.8	923.9	925.6	923.9	918.8	910.4	898.6	883.5	865.3	843.8
-60°	785.4	795.5	801.5	803.5	801.5	795.5	785.4	771.5	753.6	731.9	706.4
-62.5°	626.7	636.2	641.8	643.7	641.8	636.2	626.7	613.6	596.8	576.4	552.4
-65°	463.8	471.3	475.9	477.4	475.9	471.3	463.8	453.2	439.6	423.2	403.9
-67.5°	317.9	323.5	326.9	328.0	326.9	323.5	317.9	310.1	300.1	288.0	273.7
-70°	197.7	201.2	203.2	203.9	203.2	201.2	197.7	193.0	186.8	179.4	170.6
-72.5°	114.4	116.1	117.2	117.5	117.2	116.1	114.4	111.9	108.8	105.0	100.5
-75°	64.8	65.8	66.5	66.7	66.5	65.8	64.8	63.3	61.4	59.1	56.3
-77.5°	29.4	29.8	30.0	30.1	30.0	29.8	29.4	28.9	28.3	27.5	26.6
-80°	14.8	14.9	15.0	15.0	15.0	14.9	14.8	14.7	14.5	14.4	14.1
-82.5°	10.2	10.2	10.3	10.3	10.3	10.2	10.2	10.1	10.0	9.8	9.6
-85°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.5	5.5	5.4	5.3
-87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731231 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	2.6	2.5	2.5	2.4	2.4	2.3	2.2	2.1	2.1	2.0
85°	5.3	5.2	5.1	5.0	4.8	4.7	4.6	4.4	4.3	4.1	4.0
82.5°	9.4	9.2	9.0	8.7	8.4	8.1	7.7	7.4	7.0	6.6	6.2
80°	13.9	13.6	13.2	12.9	12.5	12.0	11.6	11.1	10.6	10.0	9.5
77.5°	25.5	24.3	22.9	21.5	19.9	18.1	16.3	14.8	14.1	13.5	12.8
75°	53.2	49.6	45.7	41.4	36.7	31.7	28.5	26.2	23.7	21.0	18.3
72.5°	95.4	89.7	83.3	76.2	68.6	62.2	55.9	49.2	42.1	34.6	28.8
70°	160.6	149.3	136.8	123.0	112.0	102.6	92.5	81.8	70.5	60.9	52.0
67.5°	257.3	238.9	218.5	198.5	181.6	163.4	144.1	123.5	108.3	94.9	80.9
65°	381.7	356.8	329.3	304.0	276.8	247.6	216.5	189.7	165.5	140.1	115.2
62.5°	525.0	494.2	461.8	428.3	392.0	353.1	314.3	277.8	239.4	200.6	171.3
60°	677.2	644.5	606.9	565.7	521.2	473.9	428.3	380.0	329.3	284.9	238.9
57.5°	819.3	788.3	748.6	705.3	658.4	606.9	551.4	492.8	435.9	378.0	319.5
55°	930.0	901.2	868.0	831.9	789.7	735.1	677.2	615.0	548.2	478.5	413.3
52.5°	1016.5	991.1	963.0	932.5	892.2	847.1	797.9	731.9	662.7	588.4	510.4
50°	1129.3	1092.7	1052.4	1011.5	976.0	938.1	890.0	835.8	771.5	694.1	612.7
47.5°	1282.1	1226.1	1164.6	1112.1	1061.3	1010.5	967.5	921.2	860.5	795.5	709.9
45°	1428.3	1374.2	1313.8	1242.0	1165.1	1101.7	1040.6	987.3	936.9	872.9	803.5
42.5°	1600.9	1520.7	1446.6	1377.6	1301.4	1213.9	1129.0	1060.8	997.3	941.8	872.9
40°	2269.9	1728.6	1611.0	1509.4	1423.2	1339.7	1243.6	1142.8	1067.5	997.3	936.9
37.5°	3665.3	2867.2	2232.8	1677.0	1561.2	1451.0	1357.9	1253.5	1142.8	1060.8	987.3
35°	5530.2	4500.3	3438.4	2575.8	1802.8	1587.4	1460.4	1357.9	1243.6	1129.0	1040.6
32.5°	7632.6	6390.0	5070.0	3855.4	2749.5	1887.4	1587.4	1451.0	1339.7	1213.9	1101.7
30°	9890.6	8419.3	6916.3	5388.0	3995.6	2749.5	1802.8	1561.2	1423.2	1301.4	1165.1
27.5°	12333.0	10522.0	8823.1	7093.6	5388.0	3855.4	2575.8	1677.0	1509.4	1377.6	1242.0
25°	14964.9	12835.6	10763.8	8823.1	6916.3	5070.0	3438.4	2232.8	1611.0	1446.6	1313.8
22.5°	17779.5	15272.7	12835.6	10522.0	8419.3	6390.0	4500.3	2867.2	1728.6	1520.7	1374.2
20°	20951.0	17779.5	14964.9	12333.0	9890.6	7632.6	5530.2	3665.3	2269.9	1600.9	1428.3
17.5°	25116.8	20534.8	17056.8	14054.8	11346.8	8871.3	6578.6	4488.1	2758.3	1673.0	1476.9
15°	29620.3	23742.8	19307.6	15799.8	12729.0	9984.1	7511.1	5221.5	3259.4	1925.1	1533.4
12.5°	34985.5	27252.0	21348.2	17330.5	13981.9	11020.0	8380.3	5965.1	3839.8	2267.9	1583.8
10°	39903.2	30790.9	23792.9	18905.9	15161.7	11947.9	9123.0	6584.2	4322.1	2552.1	1625.6
7.5°	44863.9	34172.9	25979.4	20166.1	16100.6	12683.9	9710.4	7072.9	4702.0	2775.7	1658.3
5°	48549.3	36666.3	27582.0	21085.8	16783.4	13217.7	10135.5	7425.8	4976.0	2936.7	1681.9
2.5°	50823.5	38195.9	28561.0	21645.8	17198.2	13541.3	10392.8	7639.2	5141.5	3033.9	1696.1
0°	51592.7	38711.7	28890.4	21833.9	17337.3	13649.7	10479.0	7710.6	5196.8	3066.4	1700.9
-2.5°	50823.5	38195.9	28561.0	21645.8	17198.2	13541.3	10392.8	7639.2	5141.5	3033.9	1696.1
-5°	48549.3	36666.3	27582.0	21085.8	16783.4	13217.7	10135.5	7425.8	4976.0	2936.7	1681.9
-7.5°	44863.9	34172.9	25979.4	20166.1	16100.6	12683.9	9710.4	7072.9	4702.0	2775.7	1658.3
-10°	39903.2	30790.9	23792.9	18905.9	15161.7	11947.9	9123.0	6584.2	4322.1	2552.1	1625.6
-12.5°	34985.5	27252.0	21348.2	17330.5	13981.9	11020.0	8380.3	5965.1	3839.8	2267.9	1583.8
-15°	29620.3	23742.8	19307.6	15799.8	12729.0	9984.1	7511.1	5221.5	3259.4	1925.1	1533.4
-17.5°	25116.8	20534.8	17056.8	14054.8	11346.8	8871.3	6578.6	4488.1	2758.3	1673.0	1476.9
-20°	20951.0	17779.5	14964.9	12333.0	9890.6	7632.6	5530.2	3665.3	2269.9	1600.9	1428.3



REPORT NUMBER: P731231 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	17779.5	15272.7	12835.6	10522.0	8419.3	6390.0	4500.3	2867.2	1728.6	1520.7	1374.2
-25°	14964.9	12835.6	10763.8	8823.1	6916.3	5070.0	3438.4	2232.8	1611.0	1446.6	1313.8
-27.5°	12333.0	10522.0	8823.1	7093.6	5388.0	3855.4	2575.8	1677.0	1509.4	1377.6	1242.0
-30°	9890.6	8419.3	6916.3	5388.0	3995.6	2749.5	1802.8	1561.2	1423.2	1301.4	1165.1
-32.5°	7632.6	6390.0	5070.0	3855.4	2749.5	1887.4	1587.4	1451.0	1339.7	1213.9	1101.7
-35°	5530.2	4500.3	3438.4	2575.8	1802.8	1587.4	1460.4	1357.9	1243.6	1129.0	1040.6
-37.5°	3665.3	2867.2	2232.8	1677.0	1561.2	1451.0	1357.9	1253.5	1142.8	1060.8	987.3
-40°	2269.9	1728.6	1611.0	1509.4	1423.2	1339.7	1243.6	1142.8	1067.5	997.3	936.9
-42.5°	1600.9	1520.7	1446.6	1377.6	1301.4	1213.9	1129.0	1060.8	997.3	941.8	872.9
-45°	1428.3	1374.2	1313.8	1242.0	1165.1	1101.7	1040.6	987.3	936.9	872.9	803.5
-47.5°	1282.1	1226.1	1164.6	1112.1	1061.3	1010.5	967.5	921.2	860.5	795.5	709.9
-50°	1129.3	1092.7	1052.4	1011.5	976.0	938.1	890.0	835.8	771.5	694.1	612.7
-52.5°	1016.5	991.1	963.0	932.5	892.2	847.1	797.9	731.9	662.7	588.4	510.4
-55°	930.0	901.2	868.0	831.9	789.7	735.1	677.2	615.0	548.2	478.5	413.3
-57.5°	819.3	788.3	748.6	705.3	658.4	606.9	551.4	492.8	435.9	378.0	319.5
-60°	677.2	644.5	606.9	565.7	521.2	473.9	428.3	380.0	329.3	284.9	238.9
-62.5°	525.0	494.2	461.8	428.3	392.0	353.1	314.3	277.8	239.4	200.6	171.3
-65°	381.7	356.8	329.3	304.0	276.8	247.6	216.5	189.7	165.5	140.1	115.2
-67.5°	257.3	238.9	218.5	198.5	181.6	163.4	144.1	123.5	108.3	94.9	80.9
-70°	160.6	149.3	136.8	123.0	112.0	102.6	92.5	81.8	70.5	60.9	52.0
-72.5°	95.4	89.7	83.3	76.2	68.6	62.2	55.9	49.2	42.1	34.6	28.8
-75°	53.2	49.6	45.7	41.4	36.7	31.7	28.5	26.2	23.7	21.0	18.3
-77.5°	25.5	24.3	22.9	21.5	19.9	18.1	16.3	14.8	14.1	13.5	12.8
-80°	13.9	13.6	13.2	12.9	12.5	12.0	11.6	11.1	10.6	10.0	9.5
-82.5°	9.4	9.2	9.0	8.7	8.4	8.1	7.7	7.4	7.0	6.6	6.2
-85°	5.3	5.2	5.1	5.0	4.8	4.7	4.6	4.4	4.3	4.1	4.0
-87.5°	2.6	2.6	2.5	2.5	2.4	2.4	2.3	2.2	2.1	2.1	2.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731231 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.8
85°	3.8	3.6	3.4	3.2	3.0	2.8	2.6	2.4	2.1	1.9	1.7
82.5°	5.7	5.4	5.1	4.8	4.5	4.2	3.9	3.5	3.2	2.9	2.5
80°	8.9	8.2	7.6	6.9	6.3	5.6	5.2	4.7	4.3	3.8	3.4
77.5°	12.0	11.2	10.4	9.6	8.8	7.9	7.0	6.1	5.3	4.8	4.2
75°	15.4	14.2	13.2	12.3	11.2	10.2	9.1	8.0	6.9	5.7	5.0
72.5°	25.4	21.9	18.3	14.9	13.7	12.5	11.2	9.9	8.6	7.3	6.0
70°	42.7	33.0	27.2	22.9	18.6	14.7	13.3	11.8	10.3	8.8	7.3
67.5°	66.5	55.6	44.3	32.7	26.3	21.2	16.1	13.7	12.0	10.3	8.6
65°	99.0	82.2	65.4	52.5	39.2	28.3	22.6	16.7	13.7	11.8	9.9
62.5°	140.9	112.7	93.6	74.0	57.4	42.5	29.0	22.6	16.1	13.3	11.2
60°	195.0	160.6	125.1	100.5	78.6	59.1	42.5	28.3	21.2	14.7	12.5
57.5°	267.6	214.0	172.5	133.0	102.9	78.6	57.4	39.2	26.3	18.6	13.7
55°	345.9	285.0	225.6	176.5	133.0	100.5	74.0	52.5	32.7	22.9	14.9
52.5°	434.7	360.0	290.9	225.6	172.5	125.1	93.6	65.4	44.3	27.2	18.3
50°	526.5	441.8	360.0	285.0	214.0	160.6	112.7	82.2	55.6	33.0	21.9
47.5°	620.8	526.5	434.7	345.9	267.6	195.0	140.9	99.0	66.5	42.7	25.4
45°	709.9	612.7	510.4	413.3	319.5	238.9	171.3	115.2	80.9	52.0	28.8
42.5°	795.5	694.1	588.4	478.5	378.0	284.9	200.6	140.1	94.9	60.9	34.6
40°	860.5	771.5	662.7	548.2	435.9	329.3	239.4	165.5	108.3	70.5	42.1
37.5°	921.2	835.8	731.9	615.0	492.8	380.0	277.8	189.7	123.5	81.8	49.2
35°	967.5	890.0	797.9	677.2	551.4	428.3	314.3	216.5	144.1	92.5	55.9
32.5°	1010.5	938.1	847.1	735.1	606.9	473.9	353.1	247.6	163.4	102.6	62.2
30°	1061.3	976.0	892.2	789.7	658.4	521.2	392.0	276.8	181.6	112.0	68.6
27.5°	1112.1	1011.5	932.5	831.9	705.3	565.7	428.3	304.0	198.5	123.0	76.2
25°	1164.6	1052.4	963.0	868.0	748.6	606.9	461.8	329.3	218.5	136.8	83.3
22.5°	1226.1	1092.7	991.1	901.2	788.3	644.5	494.2	356.8	238.9	149.3	89.7
20°	1282.1	1129.3	1016.5	930.0	819.3	677.2	525.0	381.7	257.3	160.6	95.4
17.5°	1331.4	1168.5	1045.4	950.8	843.8	706.4	552.4	403.9	273.7	170.6	100.5
15°	1370.8	1209.1	1071.8	969.1	865.3	731.9	576.4	423.2	288.0	179.4	105.0
12.5°	1404.6	1243.8	1094.4	984.7	883.5	753.6	596.8	439.6	300.1	186.8	108.8
10°	1432.6	1272.5	1113.0	997.5	898.6	771.5	613.6	453.2	310.1	193.0	111.9
7.5°	1454.5	1295.0	1127.6	1007.6	910.4	785.4	626.7	463.8	317.9	197.7	114.4
5°	1470.2	1311.1	1138.1	1014.8	918.8	795.5	636.2	471.3	323.5	201.2	116.1
2.5°	1479.7	1320.9	1144.4	1019.1	923.9	801.5	641.8	475.9	326.9	203.2	117.2
0°	1482.9	1324.1	1146.5	1020.6	925.6	803.5	643.7	477.4	328.0	203.9	117.5
-2.5°	1479.7	1320.9	1144.4	1019.1	923.9	801.5	641.8	475.9	326.9	203.2	117.2
-5°	1470.2	1311.1	1138.1	1014.8	918.8	795.5	636.2	471.3	323.5	201.2	116.1
-7.5°	1454.5	1295.0	1127.6	1007.6	910.4	785.4	626.7	463.8	317.9	197.7	114.4
-10°	1432.6	1272.5	1113.0	997.5	898.6	771.5	613.6	453.2	310.1	193.0	111.9
-12.5°	1404.6	1243.8	1094.4	984.7	883.5	753.6	596.8	439.6	300.1	186.8	108.8
-15°	1370.8	1209.1	1071.8	969.1	865.3	731.9	576.4	423.2	288.0	179.4	105.0
-17.5°	1331.4	1168.5	1045.4	950.8	843.8	706.4	552.4	403.9	273.7	170.6	100.5
-20°	1282.1	1129.3	1016.5	930.0	819.3	677.2	525.0	381.7	257.3	160.6	95.4



REPORT NUMBER: P731231 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1226.1	1092.7	991.1	901.2	788.3	644.5	494.2	356.8	238.9	149.3	89.7
-25°	1164.6	1052.4	963.0	868.0	748.6	606.9	461.8	329.3	218.5	136.8	83.3
-27.5°	1112.1	1011.5	932.5	831.9	705.3	565.7	428.3	304.0	198.5	123.0	76.2
-30°	1061.3	976.0	892.2	789.7	658.4	521.2	392.0	276.8	181.6	112.0	68.6
-32.5°	1010.5	938.1	847.1	735.1	606.9	473.9	353.1	247.6	163.4	102.6	62.2
-35°	967.5	890.0	797.9	677.2	551.4	428.3	314.3	216.5	144.1	92.5	55.9
-37.5°	921.2	835.8	731.9	615.0	492.8	380.0	277.8	189.7	123.5	81.8	49.2
-40°	860.5	771.5	662.7	548.2	435.9	329.3	239.4	165.5	108.3	70.5	42.1
-42.5°	795.5	694.1	588.4	478.5	378.0	284.9	200.6	140.1	94.9	60.9	34.6
-45°	709.9	612.7	510.4	413.3	319.5	238.9	171.3	115.2	80.9	52.0	28.8
-47.5°	620.8	526.5	434.7	345.9	267.6	195.0	140.9	99.0	66.5	42.7	25.4
-50°	526.5	441.8	360.0	285.0	214.0	160.6	112.7	82.2	55.6	33.0	21.9
-52.5°	434.7	360.0	290.9	225.6	172.5	125.1	93.6	65.4	44.3	27.2	18.3
-55°	345.9	285.0	225.6	176.5	133.0	100.5	74.0	52.5	32.7	22.9	14.9
-57.5°	267.6	214.0	172.5	133.0	102.9	78.6	57.4	39.2	26.3	18.6	13.7
-60°	195.0	160.6	125.1	100.5	78.6	59.1	42.5	28.3	21.2	14.7	12.5
-62.5°	140.9	112.7	93.6	74.0	57.4	42.5	29.0	22.6	16.1	13.3	11.2
-65°	99.0	82.2	65.4	52.5	39.2	28.3	22.6	16.7	13.7	11.8	9.9
-67.5°	66.5	55.6	44.3	32.7	26.3	21.2	16.1	13.7	12.0	10.3	8.6
-70°	42.7	33.0	27.2	22.9	18.6	14.7	13.3	11.8	10.3	8.8	7.3
-72.5°	25.4	21.9	18.3	14.9	13.7	12.5	11.2	9.9	8.6	7.3	6.0
-75°	15.4	14.2	13.2	12.3	11.2	10.2	9.1	8.0	6.9	5.7	5.0
-77.5°	12.0	11.2	10.4	9.6	8.8	7.9	7.0	6.1	5.3	4.8	4.2
-80°	8.9	8.2	7.6	6.9	6.3	5.6	5.2	4.7	4.3	3.8	3.4
-82.5°	5.7	5.4	5.1	4.8	4.5	4.2	3.9	3.5	3.2	2.9	2.5
-85°	3.8	3.6	3.4	3.2	3.0	2.8	2.6	2.4	2.1	1.9	1.7
-87.5°	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731231 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.6	0.5	0.4	0.2	0.1	0.0
85°	1.4	1.2	1.0	0.7	0.5	0.2	0.0
82.5°	2.2	1.8	1.5	1.1	0.7	0.4	0.0
80°	2.9	2.4	1.9	1.5	1.0	0.5	0.0
77.5°	3.6	3.0	2.4	1.8	1.2	0.6	0.0
75°	4.3	3.6	2.9	2.2	1.4	0.7	0.0
72.5°	5.0	4.2	3.4	2.5	1.7	0.8	0.0
70°	5.7	4.8	3.8	2.9	1.9	1.0	0.0
67.5°	6.9	5.3	4.3	3.2	2.1	1.1	0.0
65°	8.0	6.1	4.7	3.5	2.4	1.2	0.0
62.5°	9.1	7.0	5.2	3.9	2.6	1.3	0.0
60°	10.2	7.9	5.6	4.2	2.8	1.4	0.0
57.5°	11.2	8.8	6.3	4.5	3.0	1.5	0.0
55°	12.3	9.6	6.9	4.8	3.2	1.6	0.0
52.5°	13.2	10.4	7.6	5.1	3.4	1.7	0.0
50°	14.2	11.2	8.2	5.4	3.6	1.8	0.0
47.5°	15.4	12.0	8.9	5.7	3.8	1.9	0.0
45°	18.3	12.8	9.5	6.2	4.0	2.0	0.0
42.5°	21.0	13.5	10.0	6.6	4.1	2.1	0.0
40°	23.7	14.1	10.6	7.0	4.3	2.1	0.0
37.5°	26.2	14.8	11.1	7.4	4.4	2.2	0.0
35°	28.5	16.3	11.6	7.7	4.6	2.3	0.0
32.5°	31.7	18.1	12.0	8.1	4.7	2.4	0.0
30°	36.7	19.9	12.5	8.4	4.8	2.4	0.0
27.5°	41.4	21.5	12.9	8.7	5.0	2.5	0.0
25°	45.7	22.9	13.2	9.0	5.1	2.5	0.0
22.5°	49.6	24.3	13.6	9.2	5.2	2.6	0.0
20°	53.2	25.5	13.9	9.4	5.3	2.6	0.0
17.5°	56.3	26.6	14.1	9.6	5.3	2.7	0.0
15°	59.1	27.5	14.4	9.8	5.4	2.7	0.0
12.5°	61.4	28.3	14.5	10.0	5.5	2.7	0.0
10°	63.3	28.9	14.7	10.1	5.5	2.8	0.0
7.5°	64.8	29.4	14.8	10.2	5.6	2.8	0.0
5°	65.8	29.8	14.9	10.2	5.6	2.8	0.0
2.5°	66.5	30.0	15.0	10.3	5.6	2.8	0.0
0°	66.7	30.1	15.0	10.3	5.6	2.8	0.0
-2.5°	66.5	30.0	15.0	10.3	5.6	2.8	0.0
-5°	65.8	29.8	14.9	10.2	5.6	2.8	0.0
-7.5°	64.8	29.4	14.8	10.2	5.6	2.8	0.0
-10°	63.3	28.9	14.7	10.1	5.5	2.8	0.0
-12.5°	61.4	28.3	14.5	10.0	5.5	2.7	0.0
-15°	59.1	27.5	14.4	9.8	5.4	2.7	0.0
-17.5°	56.3	26.6	14.1	9.6	5.3	2.7	0.0
-20°	53.2	25.5	13.9	9.4	5.3	2.6	0.0



REPORT NUMBER: P731231 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	49.6	24.3	13.6	9.2	5.2	2.6	0.0
-25°	45.7	22.9	13.2	9.0	5.1	2.5	0.0
-27.5°	41.4	21.5	12.9	8.7	5.0	2.5	0.0
-30°	36.7	19.9	12.5	8.4	4.8	2.4	0.0
-32.5°	31.7	18.1	12.0	8.1	4.7	2.4	0.0
-35°	28.5	16.3	11.6	7.7	4.6	2.3	0.0
-37.5°	26.2	14.8	11.1	7.4	4.4	2.2	0.0
-40°	23.7	14.1	10.6	7.0	4.3	2.1	0.0
-42.5°	21.0	13.5	10.0	6.6	4.1	2.1	0.0
-45°	18.3	12.8	9.5	6.2	4.0	2.0	0.0
-47.5°	15.4	12.0	8.9	5.7	3.8	1.9	0.0
-50°	14.2	11.2	8.2	5.4	3.6	1.8	0.0
-52.5°	13.2	10.4	7.6	5.1	3.4	1.7	0.0
-55°	12.3	9.6	6.9	4.8	3.2	1.6	0.0
-57.5°	11.2	8.8	6.3	4.5	3.0	1.5	0.0
-60°	10.2	7.9	5.6	4.2	2.8	1.4	0.0
-62.5°	9.1	7.0	5.2	3.9	2.6	1.3	0.0
-65°	8.0	6.1	4.7	3.5	2.4	1.2	0.0
-67.5°	6.9	5.3	4.3	3.2	2.1	1.1	0.0
-70°	5.7	4.8	3.8	2.9	1.9	1.0	0.0
-72.5°	5.0	4.2	3.4	2.5	1.7	0.8	0.0
-75°	4.3	3.6	2.9	2.2	1.4	0.7	0.0
-77.5°	3.6	3.0	2.4	1.8	1.2	0.6	0.0
-80°	2.9	2.4	1.9	1.5	1.0	0.5	0.0
-82.5°	2.2	1.8	1.5	1.1	0.7	0.4	0.0
-85°	1.4	1.2	1.0	0.7	0.5	0.2	0.0
-87.5°	0.7	0.6	0.5	0.4	0.2	0.1	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(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

