

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: P731225 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-70-4S-HEG**

Issue Date: 11/16/2023

Test Information

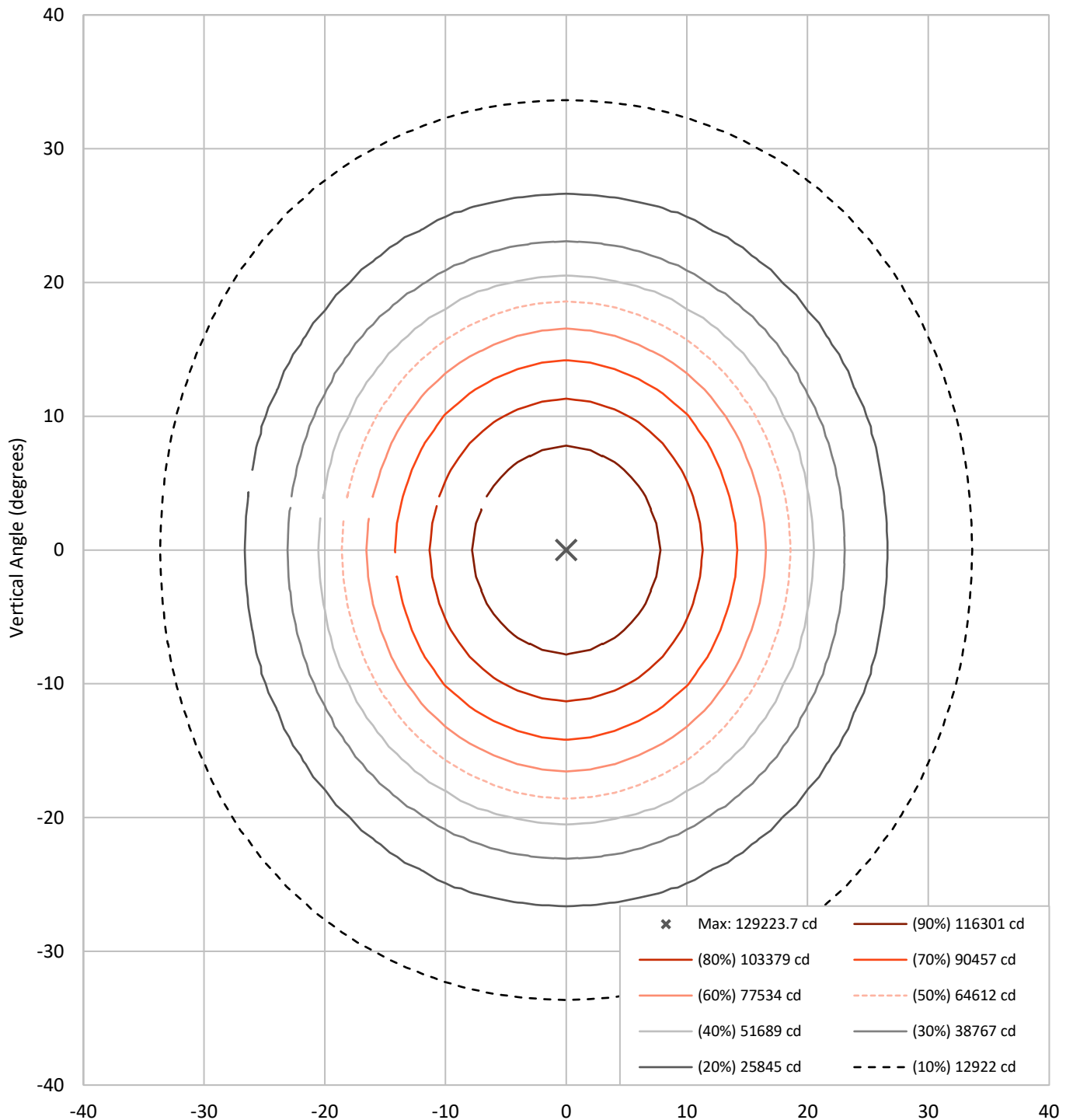
Test Method: LM-79-08
Report Number: P731225 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-57-70-4S-HEG
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 70 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:	59676.8 lumens	Max Intensity:	129223.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	172.6 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:	31067.2 lumens	Field Lumens:	52187.6 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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Iso-Candela Plot





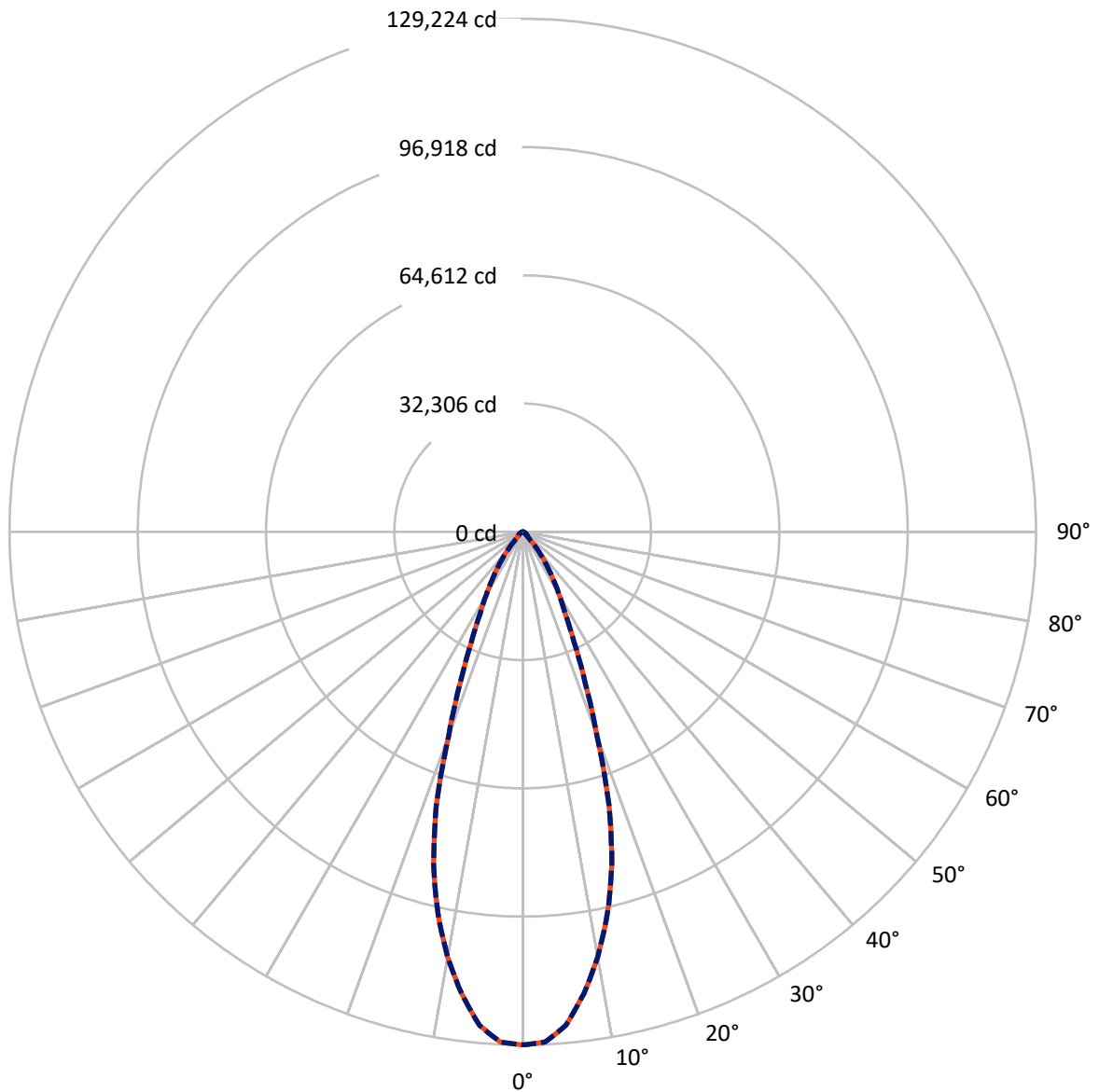
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Lumen Table

90															90				
80	0.1	0.5		1.8		4.2		5.5		4.2		1.8		0.5		0.1			
70															70				
60	0.2	0.3	1.1	3.0	6.2	10.1	13.5	15.4	15.4	13.5	10.1	6.2	3.0	1.1	0.3	0.2			
50		0.8	3.5	9.6	17.6	24.8	30.0	32.9	32.9	30.0	24.8	17.6	9.6	3.5	0.8				
40	0.6	1.8	7.8	17.9	27.8	38.6	55.4	73.1	73.1	55.4	38.6	27.8	17.9	7.8	1.8	0.6			
30		3.3	12.5	24.1	41.7	112.3	237.5	329.5	329.5	237.5	112.3	41.7	24.1	12.5	3.3				
20	1.2	4.9	15.8	30.2	102.2	319.4	624.5	928.7	928.7	624.5	319.4	102.2	30.2	15.8	4.9	1.2			
10		6.1	18.0	41.1	203.5	588.1	1456.3	2390.7	2390.7	1456.3	588.1	203.5	41.1	18.0	6.1				
0	1.5	6.8	19.1	52.9	273.8	850.3	2323.1	3499.3	3499.3	2323.1	850.3	273.8	52.9	19.1	6.8	1.5			
-10		6.8	19.1	52.9	273.8	850.3	2323.1	3499.3	3499.3	2323.1	850.3	273.8	52.9	19.1	6.8				
-20	1.2	6.1	18.0	41.1	203.5	588.1	1456.3	2390.7	2390.7	1456.3	588.1	203.5	41.1	18.0	6.1	1.2			
-30		4.9	15.8	30.2	102.2	319.4	624.5	928.7	928.7	624.5	319.4	102.2	30.2	15.8	4.9				
-40	0.6	3.3	12.5	24.1	41.7	112.3	237.5	329.5	329.5	237.5	112.3	41.7	24.1	12.5	3.3	0.6			
-50		1.8	7.8	17.9	27.8	38.6	55.4	73.1	73.1	55.4	38.6	27.8	17.9	7.8	1.8				
-60	0.2	0.8	3.5	9.6	17.6	24.8	30.0	32.9	32.9	30.0	24.8	17.6	9.6	3.5	0.8	0.2			
-70		0.3	1.1	3.0	6.2	10.1	13.5	15.4	15.4	13.5	10.1	6.2	3.0	1.1	0.3				
-80															-80				
-90	0.1	0.5		1.8		4.2		5.5		4.2		1.8		0.5		0.1			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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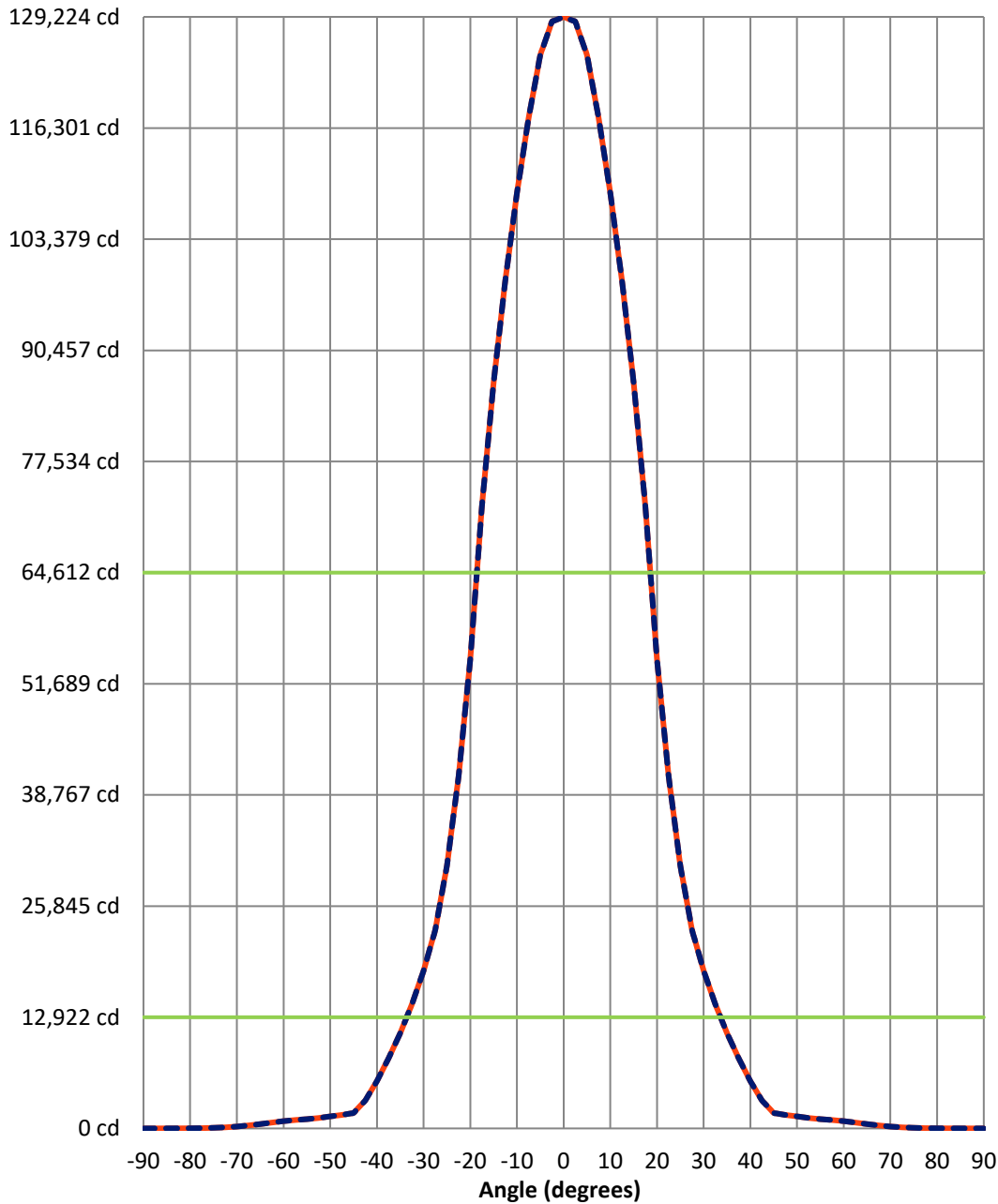
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 37.2°
 V Angle: 37.2°
 Lumens: 31067.2
 Efficiency: 52.1%

Field:
 H Angle: 67.2°
 V Angle: 67.2°
 Lumens: 52187.6
 Efficiency: 87.5%

Spill:
 Lumens: 7489.1
 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	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.3
85°	0.0	0.3	0.5	0.8	1.0	1.3	1.6	1.8	2.0	2.3	2.5
82.5°	0.0	0.4	0.8	1.2	1.6	1.9	2.3	2.7	3.1	3.4	3.8
80°	0.0	0.5	1.0	1.6	2.1	2.6	3.1	3.6	4.1	4.6	5.1
77.5°	0.0	0.6	1.3	1.9	2.6	3.2	3.9	4.5	5.1	5.7	6.5
75°	0.0	0.8	1.6	2.3	3.1	3.9	4.6	5.4	6.2	7.3	8.5
72.5°	0.0	0.9	1.8	2.7	3.6	4.5	5.4	6.4	7.8	9.2	10.5
70°	0.0	1.0	2.0	3.1	4.1	5.1	6.2	7.8	9.4	10.9	12.5
67.5°	0.0	1.1	2.3	3.4	4.6	5.7	7.3	9.2	10.9	12.7	14.5
65°	0.0	1.3	2.5	3.8	5.1	6.5	8.5	10.5	12.5	14.5	17.7
62.5°	0.0	1.4	2.8	4.1	5.5	7.4	9.7	11.9	14.1	17.0	23.9
60°	0.0	1.5	3.0	4.5	6.0	8.4	10.8	13.2	15.6	22.5	29.9
57.5°	0.0	1.6	3.2	4.8	6.7	9.3	11.9	14.5	19.6	27.8	41.5
55°	0.0	1.7	3.4	5.2	7.4	10.2	13.0	15.8	24.3	34.6	55.5
52.5°	0.0	1.8	3.6	5.5	8.1	11.0	14.0	19.4	28.7	46.8	69.1
50°	0.0	1.9	3.9	5.8	8.8	11.9	15.1	23.2	34.9	58.7	86.9
47.5°	0.0	2.0	4.1	6.1	9.4	12.7	16.3	26.8	45.1	70.2	104.6
45°	0.0	2.1	4.2	6.6	10.0	13.5	19.4	30.4	54.9	85.5	121.8
42.5°	0.0	2.2	4.4	7.0	10.6	14.3	22.3	36.6	64.4	100.3	148.1
40°	0.0	2.3	4.6	7.4	11.2	15.0	25.0	44.5	74.6	114.5	175.0
37.5°	0.0	2.4	4.8	7.8	11.7	15.7	27.7	52.0	86.5	130.6	200.6
35°	0.0	2.5	4.9	8.2	12.3	17.3	30.1	59.0	97.8	152.3	228.9
32.5°	0.0	2.5	5.1	8.6	12.7	19.2	33.5	65.7	108.4	172.8	261.8
30°	0.0	2.6	5.2	8.9	13.2	21.0	38.8	72.5	118.4	192.0	292.6
27.5°	0.0	2.7	5.3	9.2	13.6	22.7	43.8	80.6	130.1	209.9	321.3
25°	0.0	2.7	5.4	9.5	14.0	24.2	48.3	88.0	144.6	231.0	348.0
22.5°	0.0	2.8	5.5	9.8	14.4	25.7	52.5	94.8	157.8	252.6	377.2
20°	0.0	2.8	5.6	10.0	14.7	26.9	56.2	100.9	169.8	272.0	403.5
17.5°	0.0	2.9	5.7	10.2	15.0	28.1	59.5	106.3	180.4	289.3	426.9
15°	0.0	2.9	5.8	10.4	15.2	29.0	62.4	111.0	189.7	304.4	447.4
12.5°	0.0	2.9	5.9	10.5	15.4	29.9	64.9	115.0	197.6	317.3	464.8
10°	0.0	3.0	5.9	10.7	15.6	30.6	66.9	118.3	204.0	327.8	479.1
7.5°	0.0	3.0	5.9	10.8	15.7	31.1	68.5	120.9	209.1	336.1	490.3
5°	0.0	3.0	6.0	10.8	15.8	31.5	69.6	122.7	212.7	342.0	498.3
2.5°	0.0	3.0	6.0	10.9	15.9	31.7	70.3	123.8	214.9	345.5	503.1
0°	0.0	3.0	6.0	10.9	15.9	31.8	70.5	124.2	215.6	346.7	504.7
-2.5°	0.0	3.0	6.0	10.9	15.9	31.7	70.3	123.8	214.9	345.5	503.1
-5°	0.0	3.0	6.0	10.8	15.8	31.5	69.6	122.7	212.7	342.0	498.3
-7.5°	0.0	3.0	5.9	10.8	15.7	31.1	68.5	120.9	209.1	336.1	490.3
-10°	0.0	3.0	5.9	10.7	15.6	30.6	66.9	118.3	204.0	327.8	479.1
-12.5°	0.0	2.9	5.9	10.5	15.4	29.9	64.9	115.0	197.6	317.3	464.8
-15°	0.0	2.9	5.8	10.4	15.2	29.0	62.4	111.0	189.7	304.4	447.4
-17.5°	0.0	2.9	5.7	10.2	15.0	28.1	59.5	106.3	180.4	289.3	426.9
-20°	0.0	2.8	5.6	10.0	14.7	26.9	56.2	100.9	169.8	272.0	403.5



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 CATALOG NUMBER: EPH-LS-08-0320N-57-70-4S-HEG

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	2.8	5.5	9.8	14.4	25.7	52.5	94.8	157.8	252.6	377.2
-25°	0.0	2.7	5.4	9.5	14.0	24.2	48.3	88.0	144.6	231.0	348.0
-27.5°	0.0	2.7	5.3	9.2	13.6	22.7	43.8	80.6	130.1	209.9	321.3
-30°	0.0	2.6	5.2	8.9	13.2	21.0	38.8	72.5	118.4	192.0	292.6
-32.5°	0.0	2.5	5.1	8.6	12.7	19.2	33.5	65.7	108.4	172.8	261.8
-35°	0.0	2.5	4.9	8.2	12.3	17.3	30.1	59.0	97.8	152.3	228.9
-37.5°	0.0	2.4	4.8	7.8	11.7	15.7	27.7	52.0	86.5	130.6	200.6
-40°	0.0	2.3	4.6	7.4	11.2	15.0	25.0	44.5	74.6	114.5	175.0
-42.5°	0.0	2.2	4.4	7.0	10.6	14.3	22.3	36.6	64.4	100.3	148.1
-45°	0.0	2.1	4.2	6.6	10.0	13.5	19.4	30.4	54.9	85.5	121.8
-47.5°	0.0	2.0	4.1	6.1	9.4	12.7	16.3	26.8	45.1	70.2	104.6
-50°	0.0	1.9	3.9	5.8	8.8	11.9	15.1	23.2	34.9	58.7	86.9
-52.5°	0.0	1.8	3.6	5.5	8.1	11.0	14.0	19.4	28.7	46.8	69.1
-55°	0.0	1.7	3.4	5.2	7.4	10.2	13.0	15.8	24.3	34.6	55.5
-57.5°	0.0	1.6	3.2	4.8	6.7	9.3	11.9	14.5	19.6	27.8	41.5
-60°	0.0	1.5	3.0	4.5	6.0	8.4	10.8	13.2	15.6	22.5	29.9
-62.5°	0.0	1.4	2.8	4.1	5.5	7.4	9.7	11.9	14.1	17.0	23.9
-65°	0.0	1.3	2.5	3.8	5.1	6.5	8.5	10.5	12.5	14.5	17.7
-67.5°	0.0	1.1	2.3	3.4	4.6	5.7	7.3	9.2	10.9	12.7	14.5
-70°	0.0	1.0	2.0	3.1	4.1	5.1	6.2	7.8	9.4	10.9	12.5
-72.5°	0.0	0.9	1.8	2.7	3.6	4.5	5.4	6.4	7.8	9.2	10.5
-75°	0.0	0.8	1.6	2.3	3.1	3.9	4.6	5.4	6.2	7.3	8.5
-77.5°	0.0	0.6	1.3	1.9	2.6	3.2	3.9	4.5	5.1	5.7	6.5
-80°	0.0	0.5	1.0	1.6	2.1	2.6	3.1	3.6	4.1	4.6	5.1
-82.5°	0.0	0.4	0.8	1.2	1.6	1.9	2.3	2.7	3.1	3.4	3.8
-85°	0.0	0.3	0.5	0.8	1.0	1.3	1.6	1.8	2.0	2.3	2.5
-87.5°	0.0	0.1	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.3
-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-57-70-4S-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°	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4
85°	2.8	3.0	3.2	3.4	3.6	3.9	4.1	4.2	4.4	4.6	4.8
82.5°	4.1	4.5	4.8	5.2	5.5	5.8	6.1	6.6	7.0	7.4	7.8
80°	5.5	6.0	6.7	7.4	8.1	8.8	9.4	10.0	10.6	11.2	11.7
77.5°	7.4	8.4	9.3	10.2	11.0	11.9	12.7	13.5	14.3	15.0	15.7
75°	9.7	10.8	11.9	13.0	14.0	15.1	16.3	19.4	22.3	25.0	27.7
72.5°	11.9	13.2	14.5	15.8	19.4	23.2	26.8	30.4	36.6	44.5	52.0
70°	14.1	15.6	19.6	24.3	28.7	34.9	45.1	54.9	64.4	74.6	86.5
67.5°	17.0	22.5	27.8	34.6	46.8	58.7	70.2	85.5	100.3	114.5	130.6
65°	23.9	29.9	41.5	55.5	69.1	86.9	104.6	121.8	148.1	175.0	200.6
62.5°	30.6	44.9	60.7	78.2	99.0	119.2	148.9	181.1	212.1	253.1	293.7
60°	44.9	62.4	83.0	106.3	132.3	169.8	206.2	252.6	301.2	348.0	401.7
57.5°	60.7	83.0	108.7	140.6	182.4	226.3	282.9	337.7	399.6	460.8	520.9
55°	78.2	106.3	140.6	186.6	238.5	301.3	365.6	436.9	505.9	579.6	650.1
52.5°	99.0	132.3	182.4	238.5	307.5	380.6	459.5	539.6	622.0	700.6	773.7
50°	119.2	169.8	226.3	301.3	380.6	467.1	556.6	647.7	733.8	815.5	883.5
47.5°	148.9	206.2	282.9	365.6	459.5	556.6	656.3	750.5	840.9	909.7	973.9
45°	181.1	252.6	337.7	436.9	539.6	647.7	750.5	849.4	922.8	990.5	1043.7
42.5°	212.1	301.2	399.6	505.9	622.0	733.8	840.9	922.8	995.7	1054.3	1121.4
40°	253.1	348.0	460.8	579.6	700.6	815.5	909.7	990.5	1054.3	1128.5	1208.1
37.5°	293.7	401.7	520.9	650.1	773.7	883.5	973.9	1043.7	1121.4	1208.1	1325.1
35°	332.3	452.8	582.9	715.9	843.4	940.9	1022.7	1100.0	1193.5	1314.6	1435.5
32.5°	373.2	501.0	641.6	777.1	895.5	991.7	1068.3	1164.6	1283.2	1416.2	1533.9
30°	414.4	551.0	696.1	834.8	943.2	1031.7	1121.9	1231.6	1375.7	1504.5	1650.4
27.5°	452.8	598.1	745.6	879.4	985.8	1069.3	1175.6	1313.0	1456.2	1595.6	1772.8
25°	488.2	641.6	791.4	917.6	1018.1	1112.5	1231.2	1388.9	1529.2	1703.1	2360.3
22.5°	522.4	681.3	833.3	952.7	1047.7	1155.1	1296.2	1452.7	1607.6	1827.4	3031.0
20°	555.0	715.9	866.2	983.1	1074.6	1193.8	1355.3	1509.9	1692.4	2399.6	3874.6
17.5°	584.0	746.7	892.1	1005.1	1105.1	1235.2	1407.4	1561.3	1768.7	2915.8	4744.5
15°	609.4	773.7	914.7	1024.4	1133.0	1278.1	1449.1	1621.0	2035.1	3445.5	5519.8
12.5°	630.9	796.6	934.0	1040.9	1156.9	1314.8	1484.8	1674.3	2397.4	4059.1	6305.7
10°	648.7	815.5	950.0	1054.5	1176.6	1345.2	1514.4	1718.4	2697.9	4568.9	6960.3
7.5°	662.6	830.3	962.4	1065.1	1192.0	1368.9	1537.5	1753.1	2934.2	4970.5	7476.8
5°	672.5	840.9	971.3	1072.8	1203.1	1386.0	1554.2	1778.0	3104.4	5260.2	7849.9
2.5°	678.5	847.3	976.7	1077.4	1209.8	1396.3	1564.2	1793.1	3207.2	5435.1	8075.5
0°	680.5	849.4	978.5	1078.9	1212.0	1399.7	1567.6	1798.1	3241.5	5493.6	8151.0
-2.5°	678.5	847.3	976.7	1077.4	1209.8	1396.3	1564.2	1793.1	3207.2	5435.1	8075.5
-5°	672.5	840.9	971.3	1072.8	1203.1	1386.0	1554.2	1778.0	3104.4	5260.2	7849.9
-7.5°	662.6	830.3	962.4	1065.1	1192.0	1368.9	1537.5	1753.1	2934.2	4970.5	7476.8
-10°	648.7	815.5	950.0	1054.5	1176.6	1345.2	1514.4	1718.4	2697.9	4568.9	6960.3
-12.5°	630.9	796.6	934.0	1040.9	1156.9	1314.8	1484.8	1674.3	2397.4	4059.1	6305.7
-15°	609.4	773.7	914.7	1024.4	1133.0	1278.1	1449.1	1621.0	2035.1	3445.5	5519.8
-17.5°	584.0	746.7	892.1	1005.1	1105.1	1235.2	1407.4	1561.3	1768.7	2915.8	4744.5
-20°	555.0	715.9	866.2	983.1	1074.6	1193.8	1355.3	1509.9	1692.4	2399.6	3874.6



REPORT NUMBER: P731225 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-4S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	522.4	681.3	833.3	952.7	1047.7	1155.1	1296.2	1452.7	1607.6	1827.4	3031.0
-25°	488.2	641.6	791.4	917.6	1018.1	1112.5	1231.2	1388.9	1529.2	1703.1	2360.3
-27.5°	452.8	598.1	745.6	879.4	985.8	1069.3	1175.6	1313.0	1456.2	1595.6	1772.8
-30°	414.4	551.0	696.1	834.8	943.2	1031.7	1121.9	1231.6	1375.7	1504.5	1650.4
-32.5°	373.2	501.0	641.6	777.1	895.5	991.7	1068.3	1164.6	1283.2	1416.2	1533.9
-35°	332.3	452.8	582.9	715.9	843.4	940.9	1022.7	1100.0	1193.5	1314.6	1435.5
-37.5°	293.7	401.7	520.9	650.1	773.7	883.5	973.9	1043.7	1121.4	1208.1	1325.1
-40°	253.1	348.0	460.8	579.6	700.6	815.5	909.7	990.5	1054.3	1128.5	1208.1
-42.5°	212.1	301.2	399.6	505.9	622.0	733.8	840.9	922.8	995.7	1054.3	1121.4
-45°	181.1	252.6	337.7	436.9	539.6	647.7	750.5	849.4	922.8	990.5	1043.7
-47.5°	148.9	206.2	282.9	365.6	459.5	556.6	656.3	750.5	840.9	909.7	973.9
-50°	119.2	169.8	226.3	301.3	380.6	467.1	556.6	647.7	733.8	815.5	883.5
-52.5°	99.0	132.3	182.4	238.5	307.5	380.6	459.5	539.6	622.0	700.6	773.7
-55°	78.2	106.3	140.6	186.6	238.5	301.3	365.6	436.9	505.9	579.6	650.1
-57.5°	60.7	83.0	108.7	140.6	182.4	226.3	282.9	337.7	399.6	460.8	520.9
-60°	44.9	62.4	83.0	106.3	132.3	169.8	206.2	252.6	301.2	348.0	401.7
-62.5°	30.6	44.9	60.7	78.2	99.0	119.2	148.9	181.1	212.1	253.1	293.7
-65°	23.9	29.9	41.5	55.5	69.1	86.9	104.6	121.8	148.1	175.0	200.6
-67.5°	17.0	22.5	27.8	34.6	46.8	58.7	70.2	85.5	100.3	114.5	130.6
-70°	14.1	15.6	19.6	24.3	28.7	34.9	45.1	54.9	64.4	74.6	86.5
-72.5°	11.9	13.2	14.5	15.8	19.4	23.2	26.8	30.4	36.6	44.5	52.0
-75°	9.7	10.8	11.9	13.0	14.0	15.1	16.3	19.4	22.3	25.0	27.7
-77.5°	7.4	8.4	9.3	10.2	11.0	11.9	12.7	13.5	14.3	15.0	15.7
-80°	5.5	6.0	6.7	7.4	8.1	8.8	9.4	10.0	10.6	11.2	11.7
-82.5°	4.1	4.5	4.8	5.2	5.5	5.8	6.1	6.6	7.0	7.4	7.8
-85°	2.8	3.0	3.2	3.4	3.6	3.9	4.1	4.2	4.4	4.6	4.8
-87.5°	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4
-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: P731225 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-4S-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°	2.5	2.5	2.6	2.7	2.7	2.8	2.8	2.9	2.9	2.9	3.0
85°	4.9	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	5.9
82.5°	8.2	8.6	8.9	9.2	9.5	9.8	10.0	10.2	10.4	10.5	10.7
80°	12.3	12.7	13.2	13.6	14.0	14.4	14.7	15.0	15.2	15.4	15.6
77.5°	17.3	19.2	21.0	22.7	24.2	25.7	26.9	28.1	29.0	29.9	30.6
75°	30.1	33.5	38.8	43.8	48.3	52.5	56.2	59.5	62.4	64.9	66.9
72.5°	59.0	65.7	72.5	80.6	88.0	94.8	100.9	106.3	111.0	115.0	118.3
70°	97.8	108.4	118.4	130.1	144.6	157.8	169.8	180.4	189.7	197.6	204.0
67.5°	152.3	172.8	192.0	209.9	231.0	252.6	272.0	289.3	304.4	317.3	327.8
65°	228.9	261.8	292.6	321.3	348.0	377.2	403.5	426.9	447.4	464.8	479.1
62.5°	332.3	373.2	414.4	452.8	488.2	522.4	555.0	584.0	609.4	630.9	648.7
60°	452.8	501.0	551.0	598.1	641.6	681.3	715.9	746.7	773.7	796.6	815.5
57.5°	582.9	641.6	696.1	745.6	791.4	833.3	866.2	892.1	914.7	934.0	950.0
55°	715.9	777.1	834.8	879.4	917.6	952.7	983.1	1005.1	1024.4	1040.9	1054.5
52.5°	843.4	895.5	943.2	985.8	1018.1	1047.7	1074.6	1105.1	1133.0	1156.9	1176.6
50°	940.9	991.7	1031.7	1069.3	1112.5	1155.1	1193.8	1235.2	1278.1	1314.8	1345.2
47.5°	1022.7	1068.3	1121.9	1175.6	1231.2	1296.2	1355.3	1407.4	1449.1	1484.8	1514.4
45°	1100.0	1164.6	1231.6	1313.0	1388.9	1452.7	1509.9	1561.3	1621.0	1674.3	1718.4
42.5°	1193.5	1283.2	1375.7	1456.2	1529.2	1607.6	1692.4	1768.7	2035.1	2397.4	2697.9
40°	1314.6	1416.2	1504.5	1595.6	1703.1	1827.4	2399.6	2915.8	3445.5	4059.1	4568.9
37.5°	1435.5	1533.9	1650.4	1772.8	2360.3	3031.0	3874.6	4744.5	5519.8	6305.7	6960.3
35°	1543.8	1678.1	1905.9	2722.9	3634.8	4757.3	5846.0	6954.3	7940.1	8859.0	9644.1
32.5°	1678.1	1995.3	2906.5	4075.5	5359.5	6755.0	8068.6	9378.0	10554.5	11649.5	12630.4
30°	1905.9	2906.5	4223.8	5695.8	7311.4	8900.2	10455.6	11995.0	13456.1	14780.6	16027.7
27.5°	2722.9	4075.5	5695.8	7498.7	9327.0	11123.0	13037.4	14857.6	16702.3	18320.4	19985.8
25°	3634.8	5359.5	7311.4	9327.0	11378.7	13568.8	15819.8	18031.1	20410.5	22567.6	25152.0
22.5°	4757.3	6755.0	8900.2	11123.0	13568.8	16145.1	18795.0	21707.7	25099.0	28808.7	32549.6
20°	5846.0	8068.6	10455.6	13037.4	15819.8	18795.0	22147.7	26551.5	31312.1	36983.8	42182.4
17.5°	6954.3	9378.0	11995.0	14857.6	18031.1	21707.7	26551.5	32396.2	39282.7	46960.6	54116.3
15°	7940.1	10554.5	13456.1	16702.3	20410.5	25099.0	31312.1	39282.7	48599.5	58572.1	69028.0
12.5°	8859.0	11649.5	14780.6	18320.4	22567.6	28808.7	36983.8	46960.6	58572.1	71567.6	81183.3
10°	9644.1	12630.4	16027.7	19985.8	25152.0	32549.6	42182.4	54116.3	69028.0	81183.3	91090.3
7.5°	10265.1	13408.4	17020.3	21318.0	27463.3	36124.8	47426.4	61704.3	76738.9	88918.6	98659.1
5°	10714.5	13972.7	17742.1	22290.2	29157.5	38760.6	51322.4	67498.9	82128.9	94223.2	104057.3
2.5°	10986.5	14314.8	18180.5	22882.3	30192.4	40377.6	53726.4	71103.8	85522.6	97478.2	107515.0
0°	11077.6	14429.4	18327.6	23081.1	30540.6	40922.8	54539.6	72328.7	86683.6	98557.5	108737.5
-2.5°	10986.5	14314.8	18180.5	22882.3	30192.4	40377.6	53726.4	71103.8	85522.6	97478.2	107515.0
-5°	10714.5	13972.7	17742.1	22290.2	29157.5	38760.6	51322.4	67498.9	82128.9	94223.2	104057.3
-7.5°	10265.1	13408.4	17020.3	21318.0	27463.3	36124.8	47426.4	61704.3	76738.9	88918.6	98659.1
-10°	9644.1	12630.4	16027.7	19985.8	25152.0	32549.6	42182.4	54116.3	69028.0	81183.3	91090.3
-12.5°	8859.0	11649.5	14780.6	18320.4	22567.6	28808.7	36983.8	46960.6	58572.1	71567.6	81183.3
-15°	7940.1	10554.5	13456.1	16702.3	20410.5	25099.0	31312.1	39282.7	48599.5	58572.1	69028.0
-17.5°	6954.3	9378.0	11995.0	14857.6	18031.1	21707.7	26551.5	32396.2	39282.7	46960.6	54116.3
-20°	5846.0	8068.6	10455.6	13037.4	15819.8	18795.0	22147.7	26551.5	31312.1	36983.8	42182.4



REPORT NUMBER: P731225 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-4S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	4757.3	6755.0	8900.2	11123.0	13568.8	16145.1	18795.0	21707.7	25099.0	28808.7	32549.6
-25°	3634.8	5359.5	7311.4	9327.0	11378.7	13568.8	15819.8	18031.1	20410.5	22567.6	25152.0
-27.5°	2722.9	4075.5	5695.8	7498.7	9327.0	11123.0	13037.4	14857.6	16702.3	18320.4	19985.8
-30°	1905.9	2906.5	4223.8	5695.8	7311.4	8900.2	10455.6	11995.0	13456.1	14780.6	16027.7
-32.5°	1678.1	1995.3	2906.5	4075.5	5359.5	6755.0	8068.6	9378.0	10554.5	11649.5	12630.4
-35°	1543.8	1678.1	1905.9	2722.9	3634.8	4757.3	5846.0	6954.3	7940.1	8859.0	9644.1
-37.5°	1435.5	1533.9	1650.4	1772.8	2360.3	3031.0	3874.6	4744.5	5519.8	6305.7	6960.3
-40°	1314.6	1416.2	1504.5	1595.6	1703.1	1827.4	2399.6	2915.8	3445.5	4059.1	4568.9
-42.5°	1193.5	1283.2	1375.7	1456.2	1529.2	1607.6	1692.4	1768.7	2035.1	2397.4	2697.9
-45°	1100.0	1164.6	1231.6	1313.0	1388.9	1452.7	1509.9	1561.3	1621.0	1674.3	1718.4
-47.5°	1022.7	1068.3	1121.9	1175.6	1231.2	1296.2	1355.3	1407.4	1449.1	1484.8	1514.4
-50°	940.9	991.7	1031.7	1069.3	1112.5	1155.1	1193.8	1235.2	1278.1	1314.8	1345.2
-52.5°	843.4	895.5	943.2	985.8	1018.1	1047.7	1074.6	1105.1	1133.0	1156.9	1176.6
-55°	715.9	777.1	834.8	879.4	917.6	952.7	983.1	1005.1	1024.4	1040.9	1054.5
-57.5°	582.9	641.6	696.1	745.6	791.4	833.3	866.2	892.1	914.7	934.0	950.0
-60°	452.8	501.0	551.0	598.1	641.6	681.3	715.9	746.7	773.7	796.6	815.5
-62.5°	332.3	373.2	414.4	452.8	488.2	522.4	555.0	584.0	609.4	630.9	648.7
-65°	228.9	261.8	292.6	321.3	348.0	377.2	403.5	426.9	447.4	464.8	479.1
-67.5°	152.3	172.8	192.0	209.9	231.0	252.6	272.0	289.3	304.4	317.3	327.8
-70°	97.8	108.4	118.4	130.1	144.6	157.8	169.8	180.4	189.7	197.6	204.0
-72.5°	59.0	65.7	72.5	80.6	88.0	94.8	100.9	106.3	111.0	115.0	118.3
-75°	30.1	33.5	38.8	43.8	48.3	52.5	56.2	59.5	62.4	64.9	66.9
-77.5°	17.3	19.2	21.0	22.7	24.2	25.7	26.9	28.1	29.0	29.9	30.6
-80°	12.3	12.7	13.2	13.6	14.0	14.4	14.7	15.0	15.2	15.4	15.6
-82.5°	8.2	8.6	8.9	9.2	9.5	9.8	10.0	10.2	10.4	10.5	10.7
-85°	4.9	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	5.9
-87.5°	2.5	2.5	2.6	2.7	2.7	2.8	2.8	2.9	2.9	2.9	3.0
-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: P731225 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-4S-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°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.9
85°	5.9	6.0	6.0	6.0	6.0	6.0	5.9	5.9	5.9	5.8	5.7
82.5°	10.8	10.8	10.9	10.9	10.9	10.8	10.8	10.7	10.5	10.4	10.2
80°	15.7	15.8	15.9	15.9	15.9	15.8	15.7	15.6	15.4	15.2	15.0
77.5°	31.1	31.5	31.7	31.8	31.7	31.5	31.1	30.6	29.9	29.0	28.1
75°	68.5	69.6	70.3	70.5	70.3	69.6	68.5	66.9	64.9	62.4	59.5
72.5°	120.9	122.7	123.8	124.2	123.8	122.7	120.9	118.3	115.0	111.0	106.3
70°	209.1	212.7	214.9	215.6	214.9	212.7	209.1	204.0	197.6	189.7	180.4
67.5°	336.1	342.0	345.5	346.7	345.5	342.0	336.1	327.8	317.3	304.4	289.3
65°	490.3	498.3	503.1	504.7	503.1	498.3	490.3	479.1	464.8	447.4	426.9
62.5°	662.6	672.5	678.5	680.5	678.5	672.5	662.6	648.7	630.9	609.4	584.0
60°	830.3	840.9	847.3	849.4	847.3	840.9	830.3	815.5	796.6	773.7	746.7
57.5°	962.4	971.3	976.7	978.5	976.7	971.3	962.4	950.0	934.0	914.7	892.1
55°	1065.1	1072.8	1077.4	1078.9	1077.4	1072.8	1065.1	1054.5	1040.9	1024.4	1005.1
52.5°	1192.0	1203.1	1209.8	1212.0	1209.8	1203.1	1192.0	1176.6	1156.9	1133.0	1105.1
50°	1368.9	1386.0	1396.3	1399.7	1396.3	1386.0	1368.9	1345.2	1314.8	1278.1	1235.2
47.5°	1537.5	1554.2	1564.2	1567.6	1564.2	1554.2	1537.5	1514.4	1484.8	1449.1	1407.4
45°	1753.1	1778.0	1793.1	1798.1	1793.1	1778.0	1753.1	1718.4	1674.3	1621.0	1561.3
42.5°	2934.2	3104.4	3207.2	3241.5	3207.2	3104.4	2934.2	2697.9	2397.4	2035.1	1768.7
40°	4970.5	5260.2	5435.1	5493.6	5435.1	5260.2	4970.5	4568.9	4059.1	3445.5	2915.8
37.5°	7476.8	7849.9	8075.5	8151.0	8075.5	7849.9	7476.8	6960.3	6305.7	5519.8	4744.5
35°	10265.1	10714.5	10986.5	11077.6	10986.5	10714.5	10265.1	9644.1	8859.0	7940.1	6954.3
32.5°	13408.4	13972.7	14314.8	14429.4	14314.8	13972.7	13408.4	12630.4	11649.5	10554.5	9378.0
30°	17020.3	17742.1	18180.5	18327.6	18180.5	17742.1	17020.3	16027.7	14780.6	13456.1	11995.0
27.5°	21318.0	22290.2	22882.3	23081.1	22882.3	22290.2	21318.0	19985.8	18320.4	16702.3	14857.6
25°	27463.3	29157.5	30192.4	30540.6	30192.4	29157.5	27463.3	25152.0	22567.6	20410.5	18031.1
22.5°	36124.8	38760.6	40377.6	40922.8	40377.6	38760.6	36124.8	32549.6	28808.7	25099.0	21707.7
20°	47426.4	51322.4	53726.4	54539.6	53726.4	51322.4	47426.4	42182.4	36983.8	31312.1	26551.5
17.5°	61704.3	67498.9	71103.8	72328.7	71103.8	67498.9	61704.3	54116.3	46960.6	39282.7	32396.2
15°	76738.9	82128.9	85522.6	86683.6	85522.6	82128.9	76738.9	69028.0	58572.1	48599.5	39282.7
12.5°	88918.6	94223.2	97478.2	98557.5	97478.2	94223.2	88918.6	81183.3	71567.6	58572.1	46960.6
10°	98659.1	104057.3	107515.0	108737.5	107515.0	104057.3	98659.1	91090.3	81183.3	69028.0	54116.3
7.5°	106364.5	112457.5	116147.9	117461.2	116147.9	112457.5	106364.5	98659.1	88918.6	76738.9	61704.3
5°	112457.5	118872.2	123240.2	124777.2	123240.2	118872.2	112457.5	104057.3	94223.2	82128.9	67498.9
2.5°	116147.9	123240.2	127459.7	128671.9	127459.7	123240.2	116147.9	107515.0	97478.2	85522.6	71103.8
0°	117461.2	124777.2	128671.9	129223.7	128671.9	124777.2	117461.2	108737.5	98557.5	86683.6	72328.7
-2.5°	116147.9	123240.2	127459.7	128671.9	127459.7	123240.2	116147.9	107515.0	97478.2	85522.6	71103.8
-5°	112457.5	118872.2	123240.2	124777.2	123240.2	118872.2	112457.5	104057.3	94223.2	82128.9	67498.9
-7.5°	106364.5	112457.5	116147.9	117461.2	116147.9	112457.5	106364.5	98659.1	88918.6	76738.9	61704.3
-10°	98659.1	104057.3	107515.0	108737.5	107515.0	104057.3	98659.1	91090.3	81183.3	69028.0	54116.3
-12.5°	88918.6	94223.2	97478.2	98557.5	97478.2	94223.2	88918.6	81183.3	71567.6	58572.1	46960.6
-15°	76738.9	82128.9	85522.6	86683.6	85522.6	82128.9	76738.9	69028.0	58572.1	48599.5	39282.7
-17.5°	61704.3	67498.9	71103.8	72328.7	71103.8	67498.9	61704.3	54116.3	46960.6	39282.7	32396.2
-20°	47426.4	51322.4	53726.4	54539.6	53726.4	51322.4	47426.4	42182.4	36983.8	31312.1	26551.5



REPORT NUMBER: P731225 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-4S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	36124.8	38760.6	40377.6	40922.8	40377.6	38760.6	36124.8	32549.6	28808.7	25099.0	21707.7
-25°	27463.3	29157.5	30192.4	30540.6	30192.4	29157.5	27463.3	25152.0	22567.6	20410.5	18031.1
-27.5°	21318.0	22290.2	22882.3	23081.1	22882.3	22290.2	21318.0	19985.8	18320.4	16702.3	14857.6
-30°	17020.3	17742.1	18180.5	18327.6	18180.5	17742.1	17020.3	16027.7	14780.6	13456.1	11995.0
-32.5°	13408.4	13972.7	14314.8	14429.4	14314.8	13972.7	13408.4	12630.4	11649.5	10554.5	9378.0
-35°	10265.1	10714.5	10986.5	11077.6	10986.5	10714.5	10265.1	9644.1	8859.0	7940.1	6954.3
-37.5°	7476.8	7849.9	8075.5	8151.0	8075.5	7849.9	7476.8	6960.3	6305.7	5519.8	4744.5
-40°	4970.5	5260.2	5435.1	5493.6	5435.1	5260.2	4970.5	4568.9	4059.1	3445.5	2915.8
-42.5°	2934.2	3104.4	3207.2	3241.5	3207.2	3104.4	2934.2	2697.9	2397.4	2035.1	1768.7
-45°	1753.1	1778.0	1793.1	1798.1	1793.1	1778.0	1753.1	1718.4	1674.3	1621.0	1561.3
-47.5°	1537.5	1554.2	1564.2	1567.6	1564.2	1554.2	1537.5	1514.4	1484.8	1449.1	1407.4
-50°	1368.9	1386.0	1396.3	1399.7	1396.3	1386.0	1368.9	1345.2	1314.8	1278.1	1235.2
-52.5°	1192.0	1203.1	1209.8	1212.0	1209.8	1203.1	1192.0	1176.6	1156.9	1133.0	1105.1
-55°	1065.1	1072.8	1077.4	1078.9	1077.4	1072.8	1065.1	1054.5	1040.9	1024.4	1005.1
-57.5°	962.4	971.3	976.7	978.5	976.7	971.3	962.4	950.0	934.0	914.7	892.1
-60°	830.3	840.9	847.3	849.4	847.3	840.9	830.3	815.5	796.6	773.7	746.7
-62.5°	662.6	672.5	678.5	680.5	678.5	672.5	662.6	648.7	630.9	609.4	584.0
-65°	490.3	498.3	503.1	504.7	503.1	498.3	490.3	479.1	464.8	447.4	426.9
-67.5°	336.1	342.0	345.5	346.7	345.5	342.0	336.1	327.8	317.3	304.4	289.3
-70°	209.1	212.7	214.9	215.6	214.9	212.7	209.1	204.0	197.6	189.7	180.4
-72.5°	120.9	122.7	123.8	124.2	123.8	122.7	120.9	118.3	115.0	111.0	106.3
-75°	68.5	69.6	70.3	70.5	70.3	69.6	68.5	66.9	64.9	62.4	59.5
-77.5°	31.1	31.5	31.7	31.8	31.7	31.5	31.1	30.6	29.9	29.0	28.1
-80°	15.7	15.8	15.9	15.9	15.9	15.8	15.7	15.6	15.4	15.2	15.0
-82.5°	10.8	10.8	10.9	10.9	10.9	10.8	10.8	10.7	10.5	10.4	10.2
-85°	5.9	6.0	6.0	6.0	6.0	6.0	5.9	5.9	5.9	5.8	5.7
-87.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.9
-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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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°	2.8	2.8	2.7	2.7	2.6	2.5	2.5	2.4	2.3	2.2	2.1
85°	5.6	5.5	5.4	5.3	5.2	5.1	4.9	4.8	4.6	4.4	4.2
82.5°	10.0	9.8	9.5	9.2	8.9	8.6	8.2	7.8	7.4	7.0	6.6
80°	14.7	14.4	14.0	13.6	13.2	12.7	12.3	11.7	11.2	10.6	10.0
77.5°	26.9	25.7	24.2	22.7	21.0	19.2	17.3	15.7	15.0	14.3	13.5
75°	56.2	52.5	48.3	43.8	38.8	33.5	30.1	27.7	25.0	22.3	19.4
72.5°	100.9	94.8	88.0	80.6	72.5	65.7	59.0	52.0	44.5	36.6	30.4
70°	169.8	157.8	144.6	130.1	118.4	108.4	97.8	86.5	74.6	64.4	54.9
67.5°	272.0	252.6	231.0	209.9	192.0	172.8	152.3	130.6	114.5	100.3	85.5
65°	403.5	377.2	348.0	321.3	292.6	261.8	228.9	200.6	175.0	148.1	121.8
62.5°	555.0	522.4	488.2	452.8	414.4	373.2	332.3	293.7	253.1	212.1	181.1
60°	715.9	681.3	641.6	598.1	551.0	501.0	452.8	401.7	348.0	301.2	252.6
57.5°	866.2	833.3	791.4	745.6	696.1	641.6	582.9	520.9	460.8	399.6	337.7
55°	983.1	952.7	917.6	879.4	834.8	777.1	715.9	650.1	579.6	505.9	436.9
52.5°	1074.6	1047.7	1018.1	985.8	943.2	895.5	843.4	773.7	700.6	622.0	539.6
50°	1193.8	1155.1	1112.5	1069.3	1031.7	991.7	940.9	883.5	815.5	733.8	647.7
47.5°	1355.3	1296.2	1231.2	1175.6	1121.9	1068.3	1022.7	973.9	909.7	840.9	750.5
45°	1509.9	1452.7	1388.9	1313.0	1231.6	1164.6	1100.0	1043.7	990.5	922.8	849.4
42.5°	1692.4	1607.6	1529.2	1456.2	1375.7	1283.2	1193.5	1121.4	1054.3	995.7	922.8
40°	2399.6	1827.4	1703.1	1595.6	1504.5	1416.2	1314.6	1208.1	1128.5	1054.3	990.5
37.5°	3874.6	3031.0	2360.3	1772.8	1650.4	1533.9	1435.5	1325.1	1208.1	1121.4	1043.7
35°	5846.0	4757.3	3634.8	2722.9	1905.9	1678.1	1543.8	1435.5	1314.6	1193.5	1100.0
32.5°	8068.6	6755.0	5359.5	4075.5	2906.5	1995.3	1678.1	1533.9	1416.2	1283.2	1164.6
30°	10455.6	8900.2	7311.4	5695.8	4223.8	2906.5	1905.9	1650.4	1504.5	1375.7	1231.6
27.5°	13037.4	11123.0	9327.0	7498.7	5695.8	4075.5	2722.9	1772.8	1595.6	1456.2	1313.0
25°	15819.8	13568.8	11378.7	9327.0	7311.4	5359.5	3634.8	2360.3	1703.1	1529.2	1388.9
22.5°	18795.0	16145.1	13568.8	11123.0	8900.2	6755.0	4757.3	3031.0	1827.4	1607.6	1452.7
20°	22147.7	18795.0	15819.8	13037.4	10455.6	8068.6	5846.0	3874.6	2399.6	1692.4	1509.9
17.5°	26551.5	21707.7	18031.1	14857.6	11995.0	9378.0	6954.3	4744.5	2915.8	1768.7	1561.3
15°	31312.1	25099.0	20410.5	16702.3	13456.1	10554.5	7940.1	5519.8	3445.5	2035.1	1621.0
12.5°	36983.8	28808.7	22567.6	18320.4	14780.6	11649.5	8859.0	6305.7	4059.1	2397.4	1674.3
10°	42182.4	32549.6	25152.0	19985.8	16027.7	12630.4	9644.1	6960.3	4568.9	2697.9	1718.4
7.5°	47426.4	36124.8	27463.3	21318.0	17020.3	13408.4	10265.1	7476.8	4970.5	2934.2	1753.1
5°	51322.4	38760.6	29157.5	22290.2	17742.1	13972.7	10714.5	7849.9	5260.2	3104.4	1778.0
2.5°	53726.4	40377.6	30192.4	22882.3	18180.5	14314.8	10986.5	8075.5	5435.1	3207.2	1793.1
0°	54539.6	40922.8	30540.6	23081.1	18327.6	14429.4	11077.6	8151.0	5493.6	3241.5	1798.1
-2.5°	53726.4	40377.6	30192.4	22882.3	18180.5	14314.8	10986.5	8075.5	5435.1	3207.2	1793.1
-5°	51322.4	38760.6	29157.5	22290.2	17742.1	13972.7	10714.5	7849.9	5260.2	3104.4	1778.0
-7.5°	47426.4	36124.8	27463.3	21318.0	17020.3	13408.4	10265.1	7476.8	4970.5	2934.2	1753.1
-10°	42182.4	32549.6	25152.0	19985.8	16027.7	12630.4	9644.1	6960.3	4568.9	2697.9	1718.4
-12.5°	36983.8	28808.7	22567.6	18320.4	14780.6	11649.5	8859.0	6305.7	4059.1	2397.4	1674.3
-15°	31312.1	25099.0	20410.5	16702.3	13456.1	10554.5	7940.1	5519.8	3445.5	2035.1	1621.0
-17.5°	26551.5	21707.7	18031.1	14857.6	11995.0	9378.0	6954.3	4744.5	2915.8	1768.7	1561.3
-20°	22147.7	18795.0	15819.8	13037.4	10455.6	8068.6	5846.0	3874.6	2399.6	1692.4	1509.9



REPORT NUMBER: P731225 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-4S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	18795.0	16145.1	13568.8	11123.0	8900.2	6755.0	4757.3	3031.0	1827.4	1607.6	1452.7
-25°	15819.8	13568.8	11378.7	9327.0	7311.4	5359.5	3634.8	2360.3	1703.1	1529.2	1388.9
-27.5°	13037.4	11123.0	9327.0	7498.7	5695.8	4075.5	2722.9	1772.8	1595.6	1456.2	1313.0
-30°	10455.6	8900.2	7311.4	5695.8	4223.8	2906.5	1905.9	1650.4	1504.5	1375.7	1231.6
-32.5°	8068.6	6755.0	5359.5	4075.5	2906.5	1995.3	1678.1	1533.9	1416.2	1283.2	1164.6
-35°	5846.0	4757.3	3634.8	2722.9	1905.9	1678.1	1543.8	1435.5	1314.6	1193.5	1100.0
-37.5°	3874.6	3031.0	2360.3	1772.8	1650.4	1533.9	1435.5	1325.1	1208.1	1121.4	1043.7
-40°	2399.6	1827.4	1703.1	1595.6	1504.5	1416.2	1314.6	1208.1	1128.5	1054.3	990.5
-42.5°	1692.4	1607.6	1529.2	1456.2	1375.7	1283.2	1193.5	1121.4	1054.3	995.7	922.8
-45°	1509.9	1452.7	1388.9	1313.0	1231.6	1164.6	1100.0	1043.7	990.5	922.8	849.4
-47.5°	1355.3	1296.2	1231.2	1175.6	1121.9	1068.3	1022.7	973.9	909.7	840.9	750.5
-50°	1193.8	1155.1	1112.5	1069.3	1031.7	991.7	940.9	883.5	815.5	733.8	647.7
-52.5°	1074.6	1047.7	1018.1	985.8	943.2	895.5	843.4	773.7	700.6	622.0	539.6
-55°	983.1	952.7	917.6	879.4	834.8	777.1	715.9	650.1	579.6	505.9	436.9
-57.5°	866.2	833.3	791.4	745.6	696.1	641.6	582.9	520.9	460.8	399.6	337.7
-60°	715.9	681.3	641.6	598.1	551.0	501.0	452.8	401.7	348.0	301.2	252.6
-62.5°	555.0	522.4	488.2	452.8	414.4	373.2	332.3	293.7	253.1	212.1	181.1
-65°	403.5	377.2	348.0	321.3	292.6	261.8	228.9	200.6	175.0	148.1	121.8
-67.5°	272.0	252.6	231.0	209.9	192.0	172.8	152.3	130.6	114.5	100.3	85.5
-70°	169.8	157.8	144.6	130.1	118.4	108.4	97.8	86.5	74.6	64.4	54.9
-72.5°	100.9	94.8	88.0	80.6	72.5	65.7	59.0	52.0	44.5	36.6	30.4
-75°	56.2	52.5	48.3	43.8	38.8	33.5	30.1	27.7	25.0	22.3	19.4
-77.5°	26.9	25.7	24.2	22.7	21.0	19.2	17.3	15.7	15.0	14.3	13.5
-80°	14.7	14.4	14.0	13.6	13.2	12.7	12.3	11.7	11.2	10.6	10.0
-82.5°	10.0	9.8	9.5	9.2	8.9	8.6	8.2	7.8	7.4	7.0	6.6
-85°	5.6	5.5	5.4	5.3	5.2	5.1	4.9	4.8	4.6	4.4	4.2
-87.5°	2.8	2.8	2.7	2.7	2.6	2.5	2.5	2.4	2.3	2.2	2.1
-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: P731225 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-4S-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°	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.1	1.0	0.9
85°	4.1	3.9	3.6	3.4	3.2	3.0	2.8	2.5	2.3	2.0	1.8
82.5°	6.1	5.8	5.5	5.2	4.8	4.5	4.1	3.8	3.4	3.1	2.7
80°	9.4	8.8	8.1	7.4	6.7	6.0	5.5	5.1	4.6	4.1	3.6
77.5°	12.7	11.9	11.0	10.2	9.3	8.4	7.4	6.5	5.7	5.1	4.5
75°	16.3	15.1	14.0	13.0	11.9	10.8	9.7	8.5	7.3	6.2	5.4
72.5°	26.8	23.2	19.4	15.8	14.5	13.2	11.9	10.5	9.2	7.8	6.4
70°	45.1	34.9	28.7	24.3	19.6	15.6	14.1	12.5	10.9	9.4	7.8
67.5°	70.2	58.7	46.8	34.6	27.8	22.5	17.0	14.5	12.7	10.9	9.2
65°	104.6	86.9	69.1	55.5	41.5	29.9	23.9	17.7	14.5	12.5	10.5
62.5°	148.9	119.2	99.0	78.2	60.7	44.9	30.6	23.9	17.0	14.1	11.9
60°	206.2	169.8	132.3	106.3	83.0	62.4	44.9	29.9	22.5	15.6	13.2
57.5°	282.9	226.3	182.4	140.6	108.7	83.0	60.7	41.5	27.8	19.6	14.5
55°	365.6	301.3	238.5	186.6	140.6	106.3	78.2	55.5	34.6	24.3	15.8
52.5°	459.5	380.6	307.5	238.5	182.4	132.3	99.0	69.1	46.8	28.7	19.4
50°	556.6	467.1	380.6	301.3	226.3	169.8	119.2	86.9	58.7	34.9	23.2
47.5°	656.3	556.6	459.5	365.6	282.9	206.2	148.9	104.6	70.2	45.1	26.8
45°	750.5	647.7	539.6	436.9	337.7	252.6	181.1	121.8	85.5	54.9	30.4
42.5°	840.9	733.8	622.0	505.9	399.6	301.2	212.1	148.1	100.3	64.4	36.6
40°	909.7	815.5	700.6	579.6	460.8	348.0	253.1	175.0	114.5	74.6	44.5
37.5°	973.9	883.5	773.7	650.1	520.9	401.7	293.7	200.6	130.6	86.5	52.0
35°	1022.7	940.9	843.4	715.9	582.9	452.8	332.3	228.9	152.3	97.8	59.0
32.5°	1068.3	991.7	895.5	777.1	641.6	501.0	373.2	261.8	172.8	108.4	65.7
30°	1121.9	1031.7	943.2	834.8	696.1	551.0	414.4	292.6	192.0	118.4	72.5
27.5°	1175.6	1069.3	985.8	879.4	745.6	598.1	452.8	321.3	209.9	130.1	80.6
25°	1231.2	1112.5	1018.1	917.6	791.4	641.6	488.2	348.0	231.0	144.6	88.0
22.5°	1296.2	1155.1	1047.7	952.7	833.3	681.3	522.4	377.2	252.6	157.8	94.8
20°	1355.3	1193.8	1074.6	983.1	866.2	715.9	555.0	403.5	272.0	169.8	100.9
17.5°	1407.4	1235.2	1105.1	1005.1	892.1	746.7	584.0	426.9	289.3	180.4	106.3
15°	1449.1	1278.1	1133.0	1024.4	914.7	773.7	609.4	447.4	304.4	189.7	111.0
12.5°	1484.8	1314.8	1156.9	1040.9	934.0	796.6	630.9	464.8	317.3	197.6	115.0
10°	1514.4	1345.2	1176.6	1054.5	950.0	815.5	648.7	479.1	327.8	204.0	118.3
7.5°	1537.5	1368.9	1192.0	1065.1	962.4	830.3	662.6	490.3	336.1	209.1	120.9
5°	1554.2	1386.0	1203.1	1072.8	971.3	840.9	672.5	498.3	342.0	212.7	122.7
2.5°	1564.2	1396.3	1209.8	1077.4	976.7	847.3	678.5	503.1	345.5	214.9	123.8
0°	1567.6	1399.7	1212.0	1078.9	978.5	849.4	680.5	504.7	346.7	215.6	124.2
-2.5°	1564.2	1396.3	1209.8	1077.4	976.7	847.3	678.5	503.1	345.5	214.9	123.8
-5°	1554.2	1386.0	1203.1	1072.8	971.3	840.9	672.5	498.3	342.0	212.7	122.7
-7.5°	1537.5	1368.9	1192.0	1065.1	962.4	830.3	662.6	490.3	336.1	209.1	120.9
-10°	1514.4	1345.2	1176.6	1054.5	950.0	815.5	648.7	479.1	327.8	204.0	118.3
-12.5°	1484.8	1314.8	1156.9	1040.9	934.0	796.6	630.9	464.8	317.3	197.6	115.0
-15°	1449.1	1278.1	1133.0	1024.4	914.7	773.7	609.4	447.4	304.4	189.7	111.0
-17.5°	1407.4	1235.2	1105.1	1005.1	892.1	746.7	584.0	426.9	289.3	180.4	106.3
-20°	1355.3	1193.8	1074.6	983.1	866.2	715.9	555.0	403.5	272.0	169.8	100.9



REPORT NUMBER: P731225 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-4S-HEG

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1296.2	1155.1	1047.7	952.7	833.3	681.3	522.4	377.2	252.6	157.8	94.8
-25°	1231.2	1112.5	1018.1	917.6	791.4	641.6	488.2	348.0	231.0	144.6	88.0
-27.5°	1175.6	1069.3	985.8	879.4	745.6	598.1	452.8	321.3	209.9	130.1	80.6
-30°	1121.9	1031.7	943.2	834.8	696.1	551.0	414.4	292.6	192.0	118.4	72.5
-32.5°	1068.3	991.7	895.5	777.1	641.6	501.0	373.2	261.8	172.8	108.4	65.7
-35°	1022.7	940.9	843.4	715.9	582.9	452.8	332.3	228.9	152.3	97.8	59.0
-37.5°	973.9	883.5	773.7	650.1	520.9	401.7	293.7	200.6	130.6	86.5	52.0
-40°	909.7	815.5	700.6	579.6	460.8	348.0	253.1	175.0	114.5	74.6	44.5
-42.5°	840.9	733.8	622.0	505.9	399.6	301.2	212.1	148.1	100.3	64.4	36.6
-45°	750.5	647.7	539.6	436.9	337.7	252.6	181.1	121.8	85.5	54.9	30.4
-47.5°	656.3	556.6	459.5	365.6	282.9	206.2	148.9	104.6	70.2	45.1	26.8
-50°	556.6	467.1	380.6	301.3	226.3	169.8	119.2	86.9	58.7	34.9	23.2
-52.5°	459.5	380.6	307.5	238.5	182.4	132.3	99.0	69.1	46.8	28.7	19.4
-55°	365.6	301.3	238.5	186.6	140.6	106.3	78.2	55.5	34.6	24.3	15.8
-57.5°	282.9	226.3	182.4	140.6	108.7	83.0	60.7	41.5	27.8	19.6	14.5
-60°	206.2	169.8	132.3	106.3	83.0	62.4	44.9	29.9	22.5	15.6	13.2
-62.5°	148.9	119.2	99.0	78.2	60.7	44.9	30.6	23.9	17.0	14.1	11.9
-65°	104.6	86.9	69.1	55.5	41.5	29.9	23.9	17.7	14.5	12.5	10.5
-67.5°	70.2	58.7	46.8	34.6	27.8	22.5	17.0	14.5	12.7	10.9	9.2
-70°	45.1	34.9	28.7	24.3	19.6	15.6	14.1	12.5	10.9	9.4	7.8
-72.5°	26.8	23.2	19.4	15.8	14.5	13.2	11.9	10.5	9.2	7.8	6.4
-75°	16.3	15.1	14.0	13.0	11.9	10.8	9.7	8.5	7.3	6.2	5.4
-77.5°	12.7	11.9	11.0	10.2	9.3	8.4	7.4	6.5	5.7	5.1	4.5
-80°	9.4	8.8	8.1	7.4	6.7	6.0	5.5	5.1	4.6	4.1	3.6
-82.5°	6.1	5.8	5.5	5.2	4.8	4.5	4.1	3.8	3.4	3.1	2.7
-85°	4.1	3.9	3.6	3.4	3.2	3.0	2.8	2.5	2.3	2.0	1.8
-87.5°	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.1	1.0	0.9
-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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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°	0.8	0.6	0.5	0.4	0.3	0.1	0.0
85°	1.6	1.3	1.0	0.8	0.5	0.3	0.0
82.5°	2.3	1.9	1.6	1.2	0.8	0.4	0.0
80°	3.1	2.6	2.1	1.6	1.0	0.5	0.0
77.5°	3.9	3.2	2.6	1.9	1.3	0.6	0.0
75°	4.6	3.9	3.1	2.3	1.6	0.8	0.0
72.5°	5.4	4.5	3.6	2.7	1.8	0.9	0.0
70°	6.2	5.1	4.1	3.1	2.0	1.0	0.0
67.5°	7.3	5.7	4.6	3.4	2.3	1.1	0.0
65°	8.5	6.5	5.1	3.8	2.5	1.3	0.0
62.5°	9.7	7.4	5.5	4.1	2.8	1.4	0.0
60°	10.8	8.4	6.0	4.5	3.0	1.5	0.0
57.5°	11.9	9.3	6.7	4.8	3.2	1.6	0.0
55°	13.0	10.2	7.4	5.2	3.4	1.7	0.0
52.5°	14.0	11.0	8.1	5.5	3.6	1.8	0.0
50°	15.1	11.9	8.8	5.8	3.9	1.9	0.0
47.5°	16.3	12.7	9.4	6.1	4.1	2.0	0.0
45°	19.4	13.5	10.0	6.6	4.2	2.1	0.0
42.5°	22.3	14.3	10.6	7.0	4.4	2.2	0.0
40°	25.0	15.0	11.2	7.4	4.6	2.3	0.0
37.5°	27.7	15.7	11.7	7.8	4.8	2.4	0.0
35°	30.1	17.3	12.3	8.2	4.9	2.5	0.0
32.5°	33.5	19.2	12.7	8.6	5.1	2.5	0.0
30°	38.8	21.0	13.2	8.9	5.2	2.6	0.0
27.5°	43.8	22.7	13.6	9.2	5.3	2.7	0.0
25°	48.3	24.2	14.0	9.5	5.4	2.7	0.0
22.5°	52.5	25.7	14.4	9.8	5.5	2.8	0.0
20°	56.2	26.9	14.7	10.0	5.6	2.8	0.0
17.5°	59.5	28.1	15.0	10.2	5.7	2.9	0.0
15°	62.4	29.0	15.2	10.4	5.8	2.9	0.0
12.5°	64.9	29.9	15.4	10.5	5.9	2.9	0.0
10°	66.9	30.6	15.6	10.7	5.9	3.0	0.0
7.5°	68.5	31.1	15.7	10.8	5.9	3.0	0.0
5°	69.6	31.5	15.8	10.8	6.0	3.0	0.0
2.5°	70.3	31.7	15.9	10.9	6.0	3.0	0.0
0°	70.5	31.8	15.9	10.9	6.0	3.0	0.0
-2.5°	70.3	31.7	15.9	10.9	6.0	3.0	0.0
-5°	69.6	31.5	15.8	10.8	6.0	3.0	0.0
-7.5°	68.5	31.1	15.7	10.8	5.9	3.0	0.0
-10°	66.9	30.6	15.6	10.7	5.9	3.0	0.0
-12.5°	64.9	29.9	15.4	10.5	5.9	2.9	0.0
-15°	62.4	29.0	15.2	10.4	5.8	2.9	0.0
-17.5°	59.5	28.1	15.0	10.2	5.7	2.9	0.0
-20°	56.2	26.9	14.7	10.0	5.6	2.8	0.0



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 CATALOG NUMBER: EPH-LS-08-0320N-57-70-4S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	52.5	25.7	14.4	9.8	5.5	2.8	0.0
-25°	48.3	24.2	14.0	9.5	5.4	2.7	0.0
-27.5°	43.8	22.7	13.6	9.2	5.3	2.7	0.0
-30°	38.8	21.0	13.2	8.9	5.2	2.6	0.0
-32.5°	33.5	19.2	12.7	8.6	5.1	2.5	0.0
-35°	30.1	17.3	12.3	8.2	4.9	2.5	0.0
-37.5°	27.7	15.7	11.7	7.8	4.8	2.4	0.0
-40°	25.0	15.0	11.2	7.4	4.6	2.3	0.0
-42.5°	22.3	14.3	10.6	7.0	4.4	2.2	0.0
-45°	19.4	13.5	10.0	6.6	4.2	2.1	0.0
-47.5°	16.3	12.7	9.4	6.1	4.1	2.0	0.0
-50°	15.1	11.9	8.8	5.8	3.9	1.9	0.0
-52.5°	14.0	11.0	8.1	5.5	3.6	1.8	0.0
-55°	13.0	10.2	7.4	5.2	3.4	1.7	0.0
-57.5°	11.9	9.3	6.7	4.8	3.2	1.6	0.0
-60°	10.8	8.4	6.0	4.5	3.0	1.5	0.0
-62.5°	9.7	7.4	5.5	4.1	2.8	1.4	0.0
-65°	8.5	6.5	5.1	3.8	2.5	1.3	0.0
-67.5°	7.3	5.7	4.6	3.4	2.3	1.1	0.0
-70°	6.2	5.1	4.1	3.1	2.0	1.0	0.0
-72.5°	5.4	4.5	3.6	2.7	1.8	0.9	0.0
-75°	4.6	3.9	3.1	2.3	1.6	0.8	0.0
-77.5°	3.9	3.2	2.6	1.9	1.3	0.6	0.0
-80°	3.1	2.6	2.1	1.6	1.0	0.5	0.0
-82.5°	2.3	1.9	1.6	1.2	0.8	0.4	0.0
-85°	1.6	1.3	1.0	0.8	0.5	0.3	0.0
-87.5°	0.8	0.6	0.5	0.4	0.3	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

