

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: P731404 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-70-1S-CV5**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731404 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-133-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-57-70-1S-CV5
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 70 CRI LEDS AND 1S BEAM SHAPE WITH 5 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

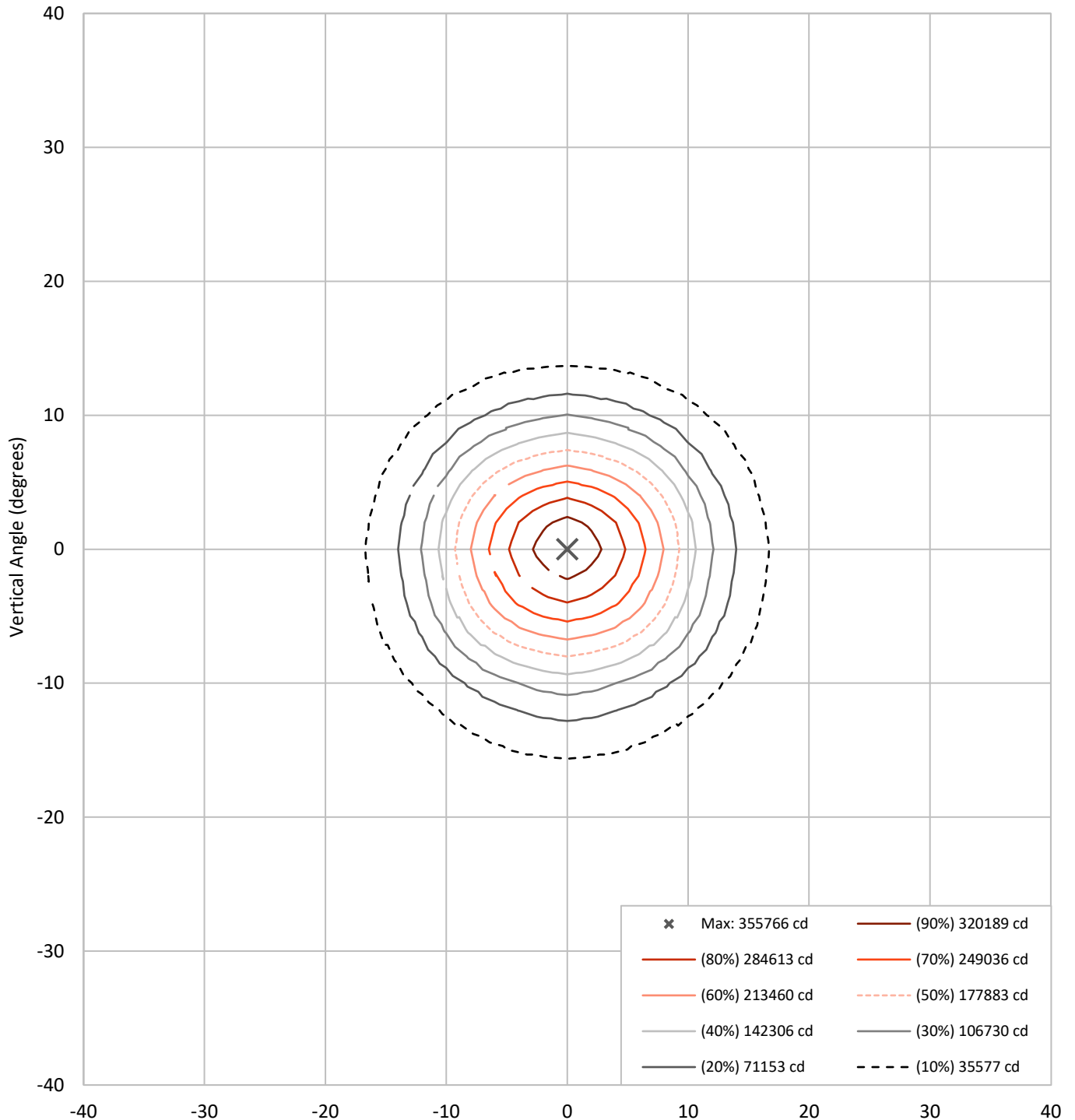
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	36576.1 lumens	Max Intensity:	355766 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	106.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	18.6°H x 15.4°V	Field Angle (10%):	33.2°H x 29.1°V
Beam Lumens:	16868.5 lumens	Field Lumens:	31120.5 lumens
Beam Efficiency:	46.1%	Field Efficiency:	85.1%

Input Watts (W): 343.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-CV5

Iso-Candela Plot





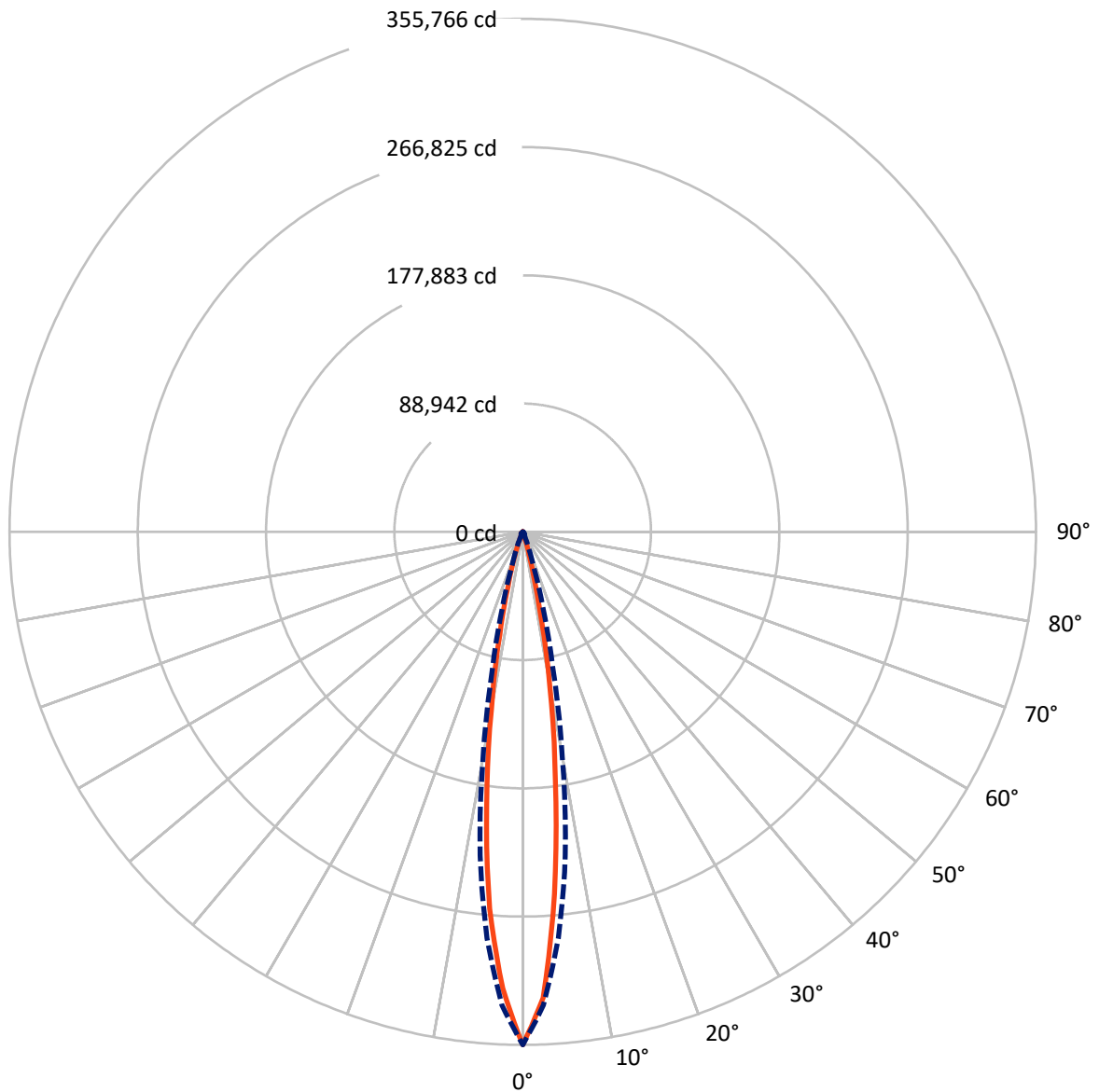
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Lumen Table

90	0.1		0.3		0.4		0.4		0.6		0.4		0.4		0.3		0.1	
80	0.1		0.3		0.4		0.4		0.6		0.4		0.4		0.3		0.1	
70	0.1	0.1	0.1	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.1	0.1	0.1	
60		0.1	0.2	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.2	0.1			
50	0.2	0.1	0.3	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.3	0.1	0.2		
40		0.2	0.4	0.5	1.0	1.3	1.4	1.6	1.6	1.4	1.3	1.0	0.5	0.4	0.2			
30	0.2	0.3	0.9	2.2	4.1	4.6	6.6	13.3	13.3	6.6	4.6	4.1	2.2	0.9	0.3	0.2		
20		0.7	2.9	10.0	18.6	24.7	183.4	763.8	763.8	183.4	24.7	18.6	10.0	2.9	0.7			
10	0.3	1.2	5.9	25.1	40.7	92.5	1345.4	5829.9	5829.9	1345.4	92.5	40.7	25.1	5.9	1.2	0.3		
0		1.5	6.9	28.9	47.7	94.8	1443.9	6093.6	6093.6	1443.9	94.8	47.7	28.9	6.9	1.5			
-10	0.3	1.6	6.0	21.9	39.4	43.3	307.9	1196.1	1196.1	307.9	43.3	39.4	21.9	6.0	1.6	0.3		
-20		1.5	5.2	12.3	31.7	36.6	40.4	78.7	78.7	40.4	36.6	31.7	12.3	5.2	1.5			
-30	0.3	1.3	4.4	7.8	19.4	36.6	42.8	43.2	43.2	42.8	36.6	19.4	7.8	4.4	1.3	0.3		
-40		0.9	3.3	6.7	10.5	18.5	31.2	41.0	41.0	31.2	18.5	10.5	6.7	3.3	0.9			
-50	0.2	0.4	1.8	4.4	7.9	10.8	12.8	14.3	14.3	12.8	10.8	7.9	4.4	1.8	0.4	0.2		
-60		0.2	0.6	1.8	3.5	5.4	7.2	8.5	8.5	7.2	5.4	3.5	1.8	0.6	0.2			
-70	0.1	0.6		1.6		3.8		6.4		3.8		1.6		0.6		0.1		
-80		0.6		1.6		3.8		6.4		3.8		1.6		0.6				
-90	0.1		0.6		1.6		3.8		6.4		3.8		1.6		0.6		0.1	

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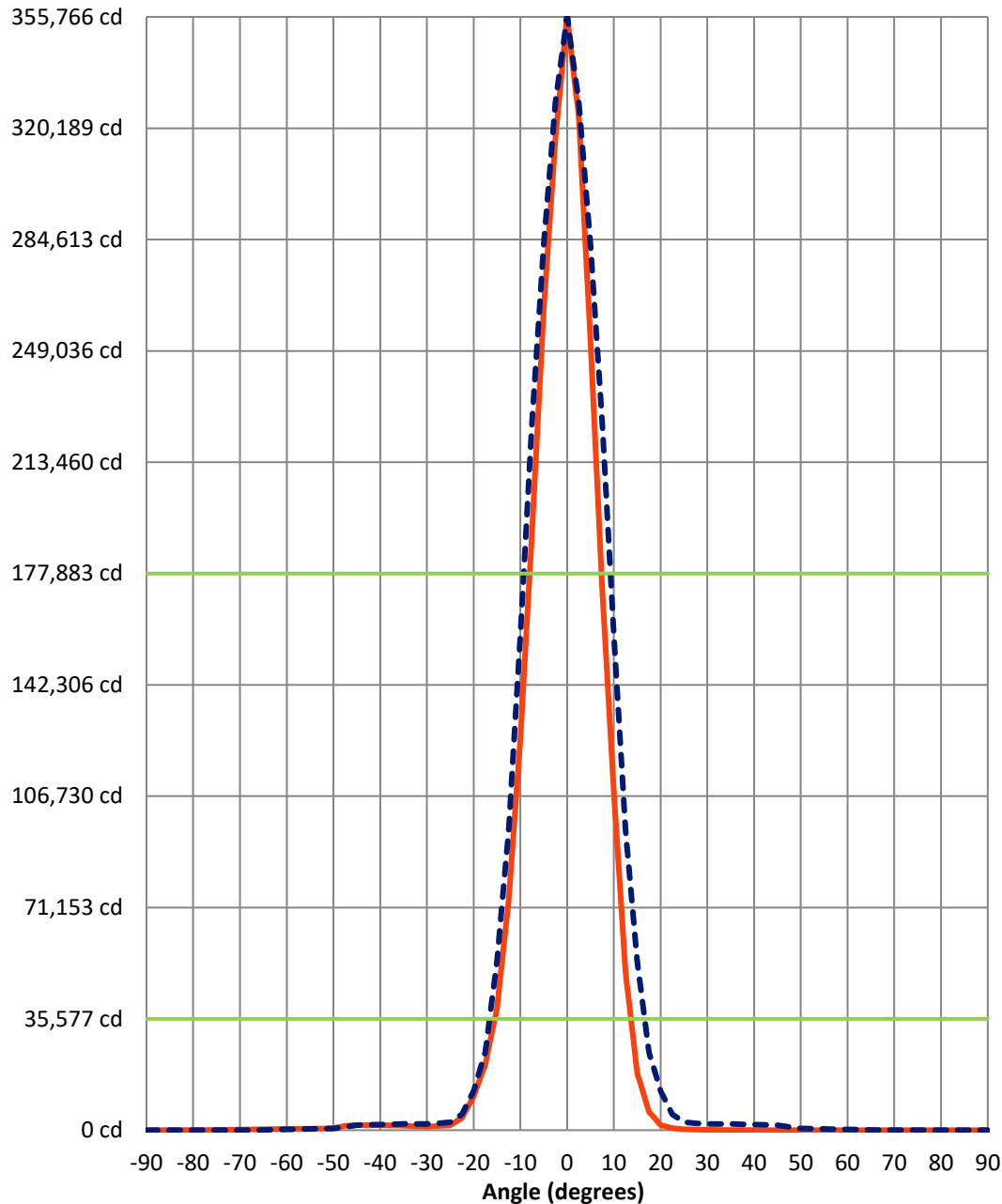
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 18.6°
 V Angle: 15.4°
 Lumens: 16868.5
 Efficiency: 46.1%

Field:
 H Angle: 33.2°
 V Angle: 29.1°
 Lumens: 31120.5
 Efficiency: 85.1%

Spill:
 Lumens: 5455.6
 Efficiency: 14.9%

— 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°	4.5	4.5	4.5	4.7	5.0	5.2	5.4	5.4	5.4	5.4	5.4
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
85°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
75°	4.5	4.5	4.5	4.5	4.5	4.6	4.5	4.5	4.5	4.6	4.5
72.5°	4.5	4.5	4.5	4.5	4.7	4.8	4.6	4.6	4.7	4.7	4.6
70°	4.5	4.5	4.5	4.5	4.9	4.9	4.7	4.8	4.9	4.8	4.9
67.5°	4.5	4.5	4.5	4.7	5.0	5.1	4.9	5.0	5.1	5.2	5.3
65°	4.5	4.5	4.5	4.9	5.2	5.2	5.2	5.2	5.4	5.5	5.6
62.5°	4.5	4.5	4.5	5.1	5.4	5.5	5.5	5.5	5.7	5.9	5.7
60°	4.5	4.5	4.5	5.3	5.6	5.7	5.7	5.8	6.0	6.1	5.9
57.5°	4.5	4.5	4.6	5.4	5.8	5.9	6.0	6.1	6.3	6.3	6.3
55°	4.5	4.5	4.7	5.6	6.0	6.1	6.3	6.4	6.6	6.6	6.7
52.5°	4.5	4.5	4.8	5.8	6.2	6.3	6.7	6.8	6.8	7.0	7.1
50°	4.5	4.5	5.0	6.0	6.3	6.6	7.0	7.2	7.2	7.4	8.2
47.5°	4.5	4.5	5.0	6.2	6.5	6.9	7.4	7.7	7.5	7.7	9.4
45°	4.5	4.5	5.1	6.3	6.7	7.3	7.8	8.2	8.1	8.7	10.5
42.5°	4.5	4.5	5.2	6.5	6.8	7.6	8.3	8.7	8.7	9.6	11.6
40°	4.5	4.5	5.3	6.5	7.0	7.9	8.8	9.3	9.5	10.4	12.5
37.5°	4.5	4.5	5.3	6.6	7.3	8.2	9.3	10.0	10.5	11.6	13.3
35°	4.5	4.5	5.4	6.6	7.5	8.6	9.9	10.6	11.6	12.9	13.8
32.5°	4.5	4.5	5.4	6.6	7.8	9.0	10.4	11.3	12.6	14.4	15.3
30°	4.5	4.5	5.5	6.6	8.0	9.5	11.0	12.1	13.6	15.9	17.0
27.5°	4.5	4.5	5.5	6.6	8.1	9.9	11.6	12.9	14.6	17.5	18.9
25°	4.5	4.5	5.5	6.6	8.1	10.3	12.2	13.7	15.9	19.1	21.1
22.5°	4.5	4.5	5.6	6.6	8.1	10.6	12.8	14.5	17.3	20.8	24.3
20°	4.5	4.5	5.6	6.6	8.1	10.6	13.4	15.3	18.6	22.6	27.7
17.5°	4.5	4.5	5.6	6.6	8.0	10.5	13.5	16.0	20.0	24.5	31.4
15°	4.5	4.5	5.6	6.6	8.0	10.4	13.2	16.3	21.4	26.4	35.2
12.5°	4.5	4.5	5.5	6.5	7.9	10.3	12.9	16.1	22.0	28.3	39.0
10°	4.5	4.5	5.5	6.5	7.8	10.1	12.6	15.9	22.0	29.2	42.7
7.5°	4.5	4.5	5.5	6.5	7.6	9.8	12.2	15.6	21.8	29.9	46.0
5°	4.5	4.5	5.5	6.4	7.5	9.6	11.8	15.3	21.6	30.6	49.3
2.5°	4.5	4.5	5.4	6.4	7.4	9.3	11.4	14.9	21.2	31.2	52.4
0°	4.5	4.5	5.4	6.3	7.2	9.0	10.9	14.5	20.8	31.7	55.2
-2.5°	4.5	4.5	5.4	6.3	7.3	9.1	11.4	16.0	24.5	37.9	63.8
-5°	4.5	4.5	5.4	6.3	7.3	9.2	11.8	17.5	28.0	43.9	71.8
-7.5°	4.5	4.6	5.4	6.3	7.4	9.3	12.2	18.8	31.2	49.3	79.1
-10°	4.5	4.6	5.4	6.3	7.4	9.3	12.5	19.9	34.0	54.2	85.5
-12.5°	4.5	4.6	5.4	6.2	7.5	9.3	12.8	20.8	36.4	58.6	91.6
-15°	4.5	4.6	5.4	6.2	7.5	9.3	12.9	21.4	38.7	63.0	96.9
-17.5°	4.5	4.6	5.3	6.2	7.5	9.3	13.0	22.4	41.2	66.8	101.0
-20°	4.5	4.6	5.3	6.1	7.5	9.3	13.2	23.6	43.0	69.7	103.9



REPORT NUMBER: P731404 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-CV5

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.5	4.7	5.3	6.1	7.4	9.2	13.6	24.2	44.1	71.7	105.4
-25°	4.5	4.7	5.3	6.0	7.3	9.3	13.7	24.3	44.3	72.9	105.6
-27.5°	4.5	4.7	5.3	6.0	7.2	9.4	13.6	23.8	43.7	73.1	106.5
-30°	4.5	4.7	5.3	5.9	7.1	9.4	13.3	22.7	42.9	72.2	106.2
-32.5°	4.5	4.7	5.3	5.9	7.1	9.4	12.7	22.0	41.5	70.2	104.7
-35°	4.5	4.7	5.3	5.8	7.1	9.3	12.4	21.3	39.3	66.9	101.9
-37.5°	4.5	4.7	5.3	5.7	7.0	9.2	12.3	20.2	36.1	62.4	94.2
-40°	4.5	4.7	5.2	5.7	7.0	9.2	12.1	18.6	32.0	57.6	85.3
-42.5°	4.5	4.7	5.2	5.6	6.9	9.0	11.8	16.6	28.9	50.5	75.5
-45°	4.5	4.7	5.2	5.6	6.9	8.9	11.5	15.1	26.1	42.6	65.1
-47.5°	4.5	4.7	5.2	5.6	6.8	8.7	11.0	14.6	22.8	34.3	55.6
-50°	4.5	4.7	5.2	5.6	6.8	8.5	10.7	13.9	18.6	29.5	45.5
-52.5°	4.5	4.7	5.3	5.6	6.7	8.2	10.4	13.2	16.5	24.4	35.2
-55°	4.5	4.7	5.3	5.7	6.6	8.0	10.1	12.4	15.4	19.1	29.2
-57.5°	4.5	4.7	5.3	5.7	6.5	7.9	9.7	11.9	14.1	16.8	22.9
-60°	4.5	4.7	5.3	5.7	6.4	7.7	9.2	11.3	13.0	15.4	17.9
-62.5°	4.5	4.7	5.2	5.7	6.3	7.5	9.0	10.6	12.2	14.0	16.3
-65°	4.5	4.7	5.2	5.6	6.3	7.3	8.6	10.0	11.5	13.0	14.6
-67.5°	4.5	4.7	5.1	5.6	6.2	7.1	8.3	9.5	10.7	12.1	13.4
-70°	4.5	4.6	5.1	5.6	6.1	6.9	7.9	9.1	10.1	11.2	12.4
-72.5°	4.5	4.6	5.0	5.5	6.0	6.6	7.6	8.6	9.6	10.5	11.5
-75°	4.5	4.6	4.9	5.4	5.8	6.4	7.2	8.0	9.0	9.9	10.8
-77.5°	4.5	4.6	4.9	5.3	5.7	6.1	6.8	7.5	8.3	9.2	10.1
-80°	4.5	4.6	4.8	5.2	5.6	5.9	6.3	6.9	7.5	8.3	9.1
-82.5°	4.5	4.6	4.7	5.1	5.4	5.7	6.1	6.4	6.8	7.3	7.9
-85°	4.5	4.5	4.7	5.0	5.3	5.6	5.9	6.1	6.3	6.6	6.9
-87.5°	4.5	4.5	4.6	4.8	5.1	5.4	5.6	5.7	5.9	6.0	6.2
-90°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	5.4	5.4	5.4	5.4	5.6	5.9	6.1	6.3	6.3	6.3	6.3
87.5°	4.3	4.1	3.8	3.6	3.4	3.2	2.9	2.7	2.7	2.7	2.7
85°	4.3	4.1	3.8	3.6	3.4	3.3	3.2	3.1	3.0	2.9	2.8
82.5°	4.3	4.1	3.8	3.6	3.6	3.6	3.6	3.6	3.4	3.2	2.9
80°	4.3	4.1	4.0	3.9	3.9	3.9	3.8	3.6	3.4	3.2	3.1
77.5°	4.4	4.3	4.3	4.4	4.3	4.2	4.1	4.1	4.0	3.9	3.8
75°	4.5	4.5	4.6	4.5	4.4	4.4	4.5	4.5	4.4	4.3	4.3
72.5°	4.6	4.8	4.7	4.6	4.5	4.5	4.5	4.5	5.0	5.9	6.6
70°	5.0	5.1	4.9	4.6	4.5	4.8	5.8	7.0	8.2	9.5	11.1
67.5°	5.3	5.1	4.9	4.9	5.6	6.7	8.1	11.4	15.5	17.2	17.9
65°	5.4	5.2	5.4	6.1	7.1	9.5	13.1	17.8	22.9	23.8	23.2
62.5°	5.4	5.6	6.3	7.5	9.5	12.8	17.4	22.6	28.4	28.5	24.9
60°	5.8	6.2	7.6	9.7	12.0	15.6	20.9	24.9	29.1	30.8	23.5
57.5°	6.3	7.3	9.4	12.0	14.9	17.4	20.3	24.2	25.9	25.8	19.1
55°	7.1	8.8	11.4	14.6	16.7	16.1	18.1	19.4	19.7	18.4	13.3
52.5°	8.6	10.5	13.8	16.5	16.9	15.2	14.2	14.8	14.0	11.9	10.3
50°	10.0	12.6	15.9	17.6	16.7	13.7	11.3	11.4	10.8	9.8	8.8
47.5°	11.5	14.5	17.7	18.4	15.3	13.1	11.0	10.2	9.7	9.3	8.4
45°	13.0	16.0	19.3	17.2	14.8	13.5	11.9	10.0	10.0	9.7	9.6
42.5°	14.2	17.0	18.4	16.2	15.8	14.9	13.5	11.7	10.9	11.3	11.6
40°	15.0	17.8	17.7	17.7	17.4	16.8	15.8	14.4	12.9	13.9	14.4
37.5°	15.6	17.7	18.2	20.2	19.6	19.4	18.7	18.9	17.9	17.3	19.4
35°	15.9	18.1	21.3	23.6	23.3	22.5	23.7	24.4	24.0	23.3	26.7
32.5°	16.4	19.0	25.1	27.6	28.5	28.0	29.5	30.9	32.4	34.1	39.6
30°	18.1	22.5	29.4	32.1	34.9	38.2	37.5	38.5	42.6	55.4	67.4
27.5°	21.6	27.1	33.7	38.2	43.2	50.8	52.4	50.4	62.8	83.2	104.6
25°	25.5	40.8	38.4	45.3	55.4	65.9	71.5	75.9	92.8	122.8	145.2
22.5°	33.3	58.9	58.5	53.2	69.3	83.3	96.9	126.9	169.5	183.2	187.6
20°	46.5	77.0	82.7	84.5	90.0	102.8	125.9	196.4	281.6	313.7	279.4
17.5°	62.2	96.7	109.3	123.1	139.8	143.6	163.3	280.1	421.2	469.4	469.6
15°	79.7	117.9	137.6	165.4	193.0	210.5	275.6	416.7	572.1	648.5	692.2
12.5°	98.4	140.1	167.1	210.7	248.9	279.5	421.5	646.6	791.1	857.8	985.2
10°	117.7	163.0	197.4	257.9	306.5	349.8	585.6	891.8	1032.6	1098.0	1243.4
7.5°	136.9	184.4	227.0	306.0	365.0	420.7	760.3	1145.2	1265.7	1323.9	1442.4
5°	155.5	203.3	250.5	342.5	411.2	478.8	918.8	1397.7	1491.6	1538.5	1605.3
2.5°	172.5	221.2	272.9	375.3	448.4	515.4	987.7	1508.5	1611.5	1682.0	1738.9
0°	187.3	238.0	294.1	405.4	483.3	549.3	1038.0	1600.0	1708.6	1792.8	1861.6
-2.5°	188.0	241.5	301.1	404.1	475.5	543.9	990.0	1579.3	1741.9	1868.2	1971.3
-5°	186.3	243.6	306.2	400.2	465.9	535.7	926.9	1529.7	1748.7	1883.2	1988.5
-7.5°	182.6	244.2	309.2	393.2	451.6	515.1	871.6	1428.4	1669.7	1784.8	1896.7
-10°	177.7	242.8	304.8	376.9	431.0	486.7	801.4	1310.7	1588.7	1687.6	1791.4
-12.5°	173.5	239.9	298.2	360.8	410.1	457.6	709.4	1181.1	1508.4	1594.5	1677.4
-15°	168.5	236.2	290.8	345.7	389.4	428.2	594.7	1044.0	1429.9	1526.6	1590.7
-17.5°	163.3	231.7	282.8	332.5	369.4	399.0	458.9	879.3	1299.2	1446.7	1521.7
-20°	158.0	226.5	274.4	321.9	350.5	378.4	418.5	711.5	1095.4	1350.2	1445.9



REPORT NUMBER: P731404 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-CV5

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	153.1	220.7	266.2	311.0	340.4	365.2	397.2	548.1	880.1	1241.0	1356.6
-25°	151.2	211.8	258.2	300.4	333.0	352.7	375.4	410.9	681.4	1024.3	1256.1
-27.5°	150.7	204.4	248.8	289.3	327.1	342.0	359.4	386.5	525.0	802.1	1132.3
-30°	148.4	193.8	238.4	277.7	315.7	336.0	347.0	368.4	405.5	618.3	889.2
-32.5°	141.5	182.4	225.9	265.2	302.3	332.4	340.9	358.9	386.3	447.1	666.9
-35°	132.9	171.7	212.5	251.9	288.4	322.0	340.8	351.5	369.7	398.8	497.5
-37.5°	124.8	160.2	198.6	237.2	272.9	306.9	339.7	349.1	361.4	382.1	419.7
-40°	115.4	148.0	184.9	221.6	256.1	289.8	322.0	349.5	356.9	377.8	404.1
-42.5°	104.6	136.2	170.8	205.1	237.4	270.4	302.9	333.6	362.3	376.7	397.0
-45°	92.8	122.8	155.9	186.6	216.7	249.0	280.7	312.6	349.7	383.1	396.8
-47.5°	80.0	108.2	139.1	166.7	194.8	224.8	256.5	290.1	327.4	364.4	402.6
-50°	66.9	93.0	119.8	145.9	171.7	199.2	228.4	263.8	299.4	336.3	373.4
-52.5°	54.8	76.6	100.7	124.7	148.5	172.5	200.6	232.5	266.9	302.3	335.2
-55°	42.0	61.5	81.1	103.3	125.5	146.9	171.7	200.6	230.3	262.9	292.7
-57.5°	32.7	46.2	63.1	81.2	101.8	122.5	145.1	168.2	194.6	222.0	246.6
-60°	25.2	34.1	46.2	61.5	77.3	96.9	118.1	139.2	160.5	180.7	201.7
-62.5°	18.6	25.6	33.3	43.1	56.7	71.3	89.4	108.7	128.1	145.2	160.6
-65°	16.8	18.7	24.1	30.9	37.3	50.2	63.8	77.4	94.2	109.2	123.1
-67.5°	14.9	16.6	18.4	21.0	27.1	33.8	40.7	52.6	64.6	75.0	85.4
-70°	13.6	14.6	16.1	17.6	19.2	22.3	28.2	34.3	40.4	47.7	56.7
-72.5°	12.4	13.4	14.3	15.2	16.6	18.3	20.0	21.8	25.3	30.2	35.2
-75°	11.5	12.1	12.9	13.7	14.6	15.6	16.7	18.2	19.6	20.8	21.9
-77.5°	10.6	11.1	11.6	12.3	12.9	13.7	14.5	15.4	16.2	17.2	18.2
-80°	9.6	10.0	10.3	10.8	11.2	11.8	12.3	12.9	13.4	13.9	14.4
-82.5°	8.3	8.6	8.9	9.2	9.5	9.8	10.1	10.4	10.6	10.7	10.9
-85°	7.1	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.3	8.2	8.1
-87.5°	6.2	6.3	6.4	6.4	6.6	6.7	6.8	6.9	6.8	6.6	6.5
-90°	4.3	4.1	3.8	3.6	3.4	3.2	2.9	2.7	2.7	2.7	2.7



REPORT NUMBER: P731404 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	6.3	6.3	6.3	6.3	6.3	8.8	11.3	13.8	16.3	22.4	28.5
87.5°	2.7	2.5	2.3	2.0	1.8	1.6	1.4	1.1	0.9	0.9	0.9
85°	2.7	2.5	2.3	2.0	1.8	1.8	1.7	1.7	1.7	1.5	1.3
82.5°	2.7	2.6	2.5	2.5	2.5	2.3	2.2	2.0	1.8	1.6	1.4
80°	3.0	3.0	2.9	2.8	2.7	2.5	2.3	2.0	1.8	1.8	1.8
77.5°	3.7	3.6	3.4	3.1	2.8	2.6	2.6	2.5	2.5	2.4	2.2
75°	4.4	4.4	4.3	4.0	3.7	3.6	3.6	3.5	3.4	3.3	3.1
72.5°	7.1	7.2	6.9	6.7	6.2	5.9	6.0	5.9	5.7	5.7	5.6
70°	12.0	12.1	11.7	10.8	9.5	8.5	8.2	7.7	7.2	7.2	7.7
67.5°	17.3	16.1	14.9	13.4	11.4	10.0	9.3	8.5	7.6	7.2	7.0
65°	21.0	16.7	14.2	12.6	11.5	10.4	9.2	8.1	7.1	6.4	6.1
62.5°	20.1	14.2	11.7	10.5	9.5	8.7	7.6	6.5	5.6	5.0	5.0
60°	17.2	11.9	9.1	8.1	7.2	6.3	5.8	5.2	4.8	4.6	4.8
57.5°	13.4	9.3	7.1	6.8	6.3	5.7	5.3	5.2	4.9	4.5	4.8
55°	9.8	8.2	7.2	6.9	6.7	6.4	6.1	5.7	5.3	5.1	5.2
52.5°	8.4	8.0	7.9	7.8	7.3	6.8	6.3	6.2	6.1	6.0	6.1
50°	8.2	8.2	8.2	8.0	7.5	7.3	7.1	7.1	7.0	6.9	6.9
47.5°	8.4	8.6	8.6	8.2	8.0	8.2	8.1	8.0	8.2	8.3	8.4
45°	9.3	9.6	9.7	9.8	9.6	9.9	9.9	9.8	11.3	11.4	10.8
42.5°	11.3	12.5	13.4	13.1	12.0	14.4	17.9	19.4	17.9	15.6	14.0
40°	16.1	17.6	18.2	19.5	24.3	27.9	24.5	21.1	19.7	20.9	21.9
37.5°	22.5	24.5	30.3	37.6	34.9	28.4	29.1	29.4	28.8	30.6	30.9
35°	32.9	42.3	49.2	47.0	43.7	43.1	44.6	45.1	40.7	42.7	43.4
32.5°	52.8	64.1	64.6	61.7	63.4	63.7	68.1	65.1	61.4	63.2	68.3
30°	76.2	87.4	91.5	86.3	76.7	82.1	86.7	85.3	87.9	95.6	103.8
27.5°	112.8	120.1	126.8	116.3	97.3	105.7	108.9	105.7	123.7	133.4	152.7
25°	156.5	164.7	170.0	161.2	148.1	141.4	151.6	159.3	181.3	202.8	233.0
22.5°	204.1	226.2	232.5	209.6	209.6	209.5	213.5	239.7	269.3	316.7	396.2
20°	259.5	303.5	338.6	315.4	285.6	305.7	330.6	362.8	447.2	662.1	906.4
17.5°	456.1	425.2	489.9	492.1	449.1	496.2	585.7	701.0	1057.5	2153.6	2872.2
15°	776.0	743.5	703.2	705.4	747.7	840.0	1023.2	1661.5	3236.0	5575.4	7993.1
12.5°	1102.7	1054.0	994.7	979.0	1071.5	1257.2	2121.9	4748.2	8455.5	12492.7	22848.9
10°	1360.5	1334.5	1279.8	1320.7	1475.2	2020.7	3788.9	8344.1	15994.2	29369.3	45872.9
7.5°	1511.7	1501.8	1516.5	1636.4	1888.4	3324.5	7212.2	13983.3	26589.7	46858.1	76590.8
5°	1663.5	1671.8	1716.5	1881.3	2203.8	4228.7	10179.2	19431.6	38500.0	68293.3	114336.5
2.5°	1831.8	1839.3	1899.4	2107.0	2476.0	4370.0	10885.3	22901.4	48814.6	87857.0	148890.4
0°	2025.4	1981.9	2000.0	2189.2	2570.2	5096.9	12562.2	25113.5	54025.3	95983.5	158234.3
-2.5°	2094.1	2001.2	1984.2	2144.0	2477.9	4516.8	11221.7	23353.2	49621.1	87932.9	147548.4
-5°	2047.5	1920.5	1869.7	2000.4	2317.4	3960.6	9435.6	21249.8	44055.9	75222.3	125026.7
-7.5°	1931.5	1809.8	1734.9	1833.2	2110.0	3263.6	7227.6	16091.7	32067.6	55656.3	88816.1
-10°	1832.0	1715.3	1601.1	1632.6	1824.3	2429.3	4499.5	10540.3	21186.6	37569.6	56466.8
-12.5°	1745.8	1648.0	1477.1	1425.1	1532.6	1816.5	3140.4	7184.2	13552.0	21311.9	34558.5
-15°	1656.6	1576.5	1405.9	1323.7	1362.0	1500.3	1858.8	3450.7	7420.4	12630.9	18337.5
-17.5°	1557.7	1502.8	1400.2	1278.8	1226.8	1282.4	1453.7	1945.3	3297.7	6544.9	10103.1
-20°	1490.7	1460.2	1384.9	1278.3	1211.6	1185.9	1245.3	1395.8	1727.9	2972.5	4505.5



REPORT NUMBER: P731404 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	1406.8	1394.1	1343.3	1312.9	1264.0	1208.9	1156.8	1203.4	1313.7	1483.3	2013.0
-25°	1327.5	1330.6	1333.9	1374.1	1366.2	1289.2	1190.3	1119.5	1156.6	1209.7	1317.0
-27.5°	1239.6	1283.3	1351.0	1426.5	1461.6	1396.4	1279.9	1173.8	1142.2	1111.1	1156.4
-30°	1162.4	1251.3	1323.8	1416.1	1476.6	1457.1	1397.1	1325.5	1248.0	1194.1	1176.5
-32.5°	963.3	1209.6	1276.6	1350.8	1441.2	1469.9	1463.0	1435.6	1402.4	1364.4	1325.2
-35°	748.7	1022.0	1246.9	1289.5	1348.6	1433.8	1500.9	1505.6	1501.3	1487.3	1476.8
-37.5°	528.7	788.9	1025.8	1216.0	1286.8	1343.6	1446.3	1524.8	1569.4	1565.9	1567.0
-40°	439.1	510.8	749.0	968.9	1131.8	1283.7	1365.6	1468.3	1550.0	1583.3	1608.7
-42.5°	423.6	451.3	479.8	644.7	854.5	1038.3	1179.6	1310.0	1425.3	1507.6	1572.9
-45°	412.7	431.5	453.0	480.4	510.0	674.1	856.8	1026.6	1137.5	1248.5	1364.4
-47.5°	412.3	416.9	432.1	451.4	470.1	496.8	527.3	568.7	691.5	803.0	920.8
-50°	399.9	418.5	423.7	429.6	441.6	456.2	470.6	485.5	499.5	508.3	520.3
-52.5°	363.6	387.7	410.2	427.8	432.4	436.8	440.9	450.6	460.0	467.8	476.6
-55°	319.6	345.2	370.0	390.2	408.4	425.6	438.4	440.5	443.4	446.8	452.2
-57.5°	272.1	296.9	320.4	341.6	361.5	380.1	393.4	403.4	412.6	421.5	432.9
-60°	223.2	245.1	266.6	287.1	306.7	325.4	337.7	347.8	356.6	365.3	377.1
-62.5°	175.3	192.1	211.5	230.0	247.0	263.1	275.9	286.7	295.7	304.8	315.7
-65°	136.2	148.8	163.2	176.7	189.3	204.2	217.9	229.2	238.3	247.2	257.0
-67.5°	97.3	108.9	122.3	134.8	146.6	157.9	169.5	180.3	190.4	200.5	210.7
-70°	65.0	73.2	82.9	93.6	104.6	114.9	124.8	134.3	143.3	152.4	161.0
-72.5°	40.3	45.4	50.8	57.9	65.3	72.5	79.6	86.6	93.5	101.7	109.7
-75°	22.9	25.0	29.1	33.1	36.8	40.3	43.3	45.9	48.1	52.8	58.1
-77.5°	19.3	20.3	21.4	22.4	23.5	25.0	26.7	28.4	30.1	34.0	38.2
-80°	15.0	15.7	16.5	17.2	18.0	19.2	20.3	21.4	22.4	25.3	28.3
-82.5°	11.1	11.4	11.7	12.0	12.3	13.2	14.1	15.0	15.8	18.1	20.5
-85°	8.0	8.2	8.3	8.4	8.5	9.3	10.0	10.8	11.6	13.9	16.2
-87.5°	6.3	6.3	6.3	6.3	6.3	7.1	7.9	8.6	9.2	11.7	14.2
-90°	2.7	2.5	2.3	2.0	1.8	1.6	1.4	1.1	0.9	0.9	0.9



REPORT NUMBER: P731404 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	34.6	40.7	34.4	28.1	34.4	40.7	34.6	28.5	22.4	16.3	13.8
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1
85°	1.1	0.9	0.9	0.9	0.9	0.9	1.1	1.3	1.5	1.7	1.7
82.5°	1.1	0.9	1.3	1.8	1.3	0.9	1.1	1.4	1.6	1.8	2.0
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.0
77.5°	2.0	1.8	1.8	1.8	1.8	1.8	2.0	2.2	2.4	2.5	2.5
75°	2.9	2.7	2.7	2.7	2.7	2.7	2.9	3.1	3.3	3.4	3.5
72.5°	5.5	5.3	5.4	5.4	5.4	5.3	5.5	5.6	5.7	5.7	5.9
70°	8.3	8.8	9.0	9.0	9.0	8.8	8.3	7.7	7.2	7.2	7.7
67.5°	6.7	6.4	6.3	6.3	6.3	6.4	6.7	7.0	7.2	7.6	8.5
65°	5.8	5.5	5.4	5.4	5.4	5.5	5.8	6.1	6.4	7.1	8.1
62.5°	5.2	5.3	5.4	5.4	5.4	5.3	5.2	5.0	5.0	5.6	6.5
60°	5.1	5.3	5.4	5.4	5.4	5.3	5.1	4.8	4.6	4.8	5.2
57.5°	5.1	5.3	5.4	5.4	5.4	5.3	5.1	4.8	4.5	4.9	5.2
55°	5.3	5.4	5.7	6.3	5.7	5.4	5.3	5.2	5.1	5.3	5.7
52.5°	6.2	6.2	6.3	6.3	6.3	6.2	6.2	6.1	6.0	6.1	6.2
50°	7.1	7.1	7.2	7.2	7.2	7.1	7.1	6.9	6.9	7.0	7.1
47.5°	8.7	8.9	9.0	9.0	9.0	8.9	8.7	8.4	8.3	8.2	8.0
45°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.8	11.4	11.3	9.8
42.5°	14.6	15.0	15.3	15.4	15.3	15.0	14.6	14.0	15.6	17.9	19.4
40°	23.0	23.3	23.1	22.6	23.1	23.3	23.0	21.9	20.9	19.7	21.1
37.5°	31.3	31.9	32.3	32.6	32.3	31.9	31.3	30.9	30.6	28.8	29.4
35°	43.9	44.4	44.0	45.2	44.0	44.4	43.9	43.4	42.7	40.7	45.1
32.5°	71.6	71.9	69.7	70.6	69.7	71.9	71.6	68.3	63.2	61.4	65.1
30°	109.6	114.6	117.7	121.3	117.7	114.6	109.6	103.8	95.6	87.9	85.3
27.5°	166.8	179.1	187.1	191.9	187.1	179.1	166.8	152.7	133.4	123.7	105.7
25°	260.4	279.2	289.2	296.8	289.2	279.2	260.4	233.0	202.8	181.3	159.3
22.5°	505.8	577.4	617.4	655.2	617.4	577.4	505.8	396.2	316.7	269.3	239.7
20°	1297.0	1380.6	1538.0	1635.3	1538.0	1380.6	1297.0	906.4	662.1	447.2	362.8
17.5°	4369.2	5570.3	5794.5	5963.9	5794.5	5570.3	4369.2	2872.2	2153.6	1057.5	701.0
15°	13011.4	16576.2	17535.7	18352.3	17535.7	16576.2	13011.4	7993.1	5575.4	3236.0	1661.5
12.5°	31415.1	41226.6	46563.2	50617.6	46563.2	41226.6	31415.1	22848.9	12492.7	8455.5	4748.2
10°	65819.3	85028.0	99607.3	108050.6	99607.3	85028.0	65819.3	45872.9	29369.3	15994.2	8344.1
7.5°	112087.6	144644.7	163676.1	173363.5	163676.1	144644.7	112087.6	76590.8	46858.1	26589.7	13983.3
5°	169059.6	211087.4	237648.1	252253.0	237648.1	211087.4	169059.6	114336.5	68293.3	38500.0	19431.6
2.5°	211171.5	265089.2	304902.7	323630.2	304902.7	265089.2	211171.5	148890.4	87857.0	48814.6	22901.4
0°	226419.6	282987.5	328500.4	355766.0	328500.4	282987.5	226419.6	158234.3	95983.5	54025.3	25113.5
-2.5°	211863.4	264968.4	300416.8	316912.4	300416.8	264968.4	211863.4	147548.4	87932.9	49621.1	23353.2
-5°	180159.7	226072.8	251546.8	262330.1	251546.8	226072.8	180159.7	125026.7	75222.3	44055.9	21249.8
-7.5°	127820.1	162842.9	180747.1	191368.7	180747.1	162842.9	127820.1	88816.1	55656.3	32067.6	16091.7
-10°	80475.1	100163.5	117290.0	125037.3	117290.0	100163.5	80475.1	56466.8	37569.6	21186.6	10540.3
-12.5°	46735.7	59200.7	69221.7	73478.6	69221.7	59200.7	46735.7	34558.5	21311.9	13552.0	7184.2
-15°	25827.5	32639.3	37253.0	39057.7	37253.0	32639.3	25827.5	18337.5	12630.9	7420.4	3450.7
-17.5°	14362.1	17667.5	18978.9	21081.8	18978.9	17667.5	14362.1	10103.1	6544.9	3297.7	1945.3
-20°	7036.1	8750.1	9299.6	10783.0	9299.6	8750.1	7036.1	4505.5	2972.5	1727.9	1395.8



REPORT NUMBER: P731404 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	2733.1	3137.6	3227.8	3931.3	3227.8	3137.6	2733.1	2013.0	1483.3	1313.7	1203.4
-25°	1419.4	1487.6	1519.2	1601.8	1519.2	1487.6	1419.4	1317.0	1209.7	1156.6	1119.5
-27.5°	1193.1	1226.2	1252.5	1292.3	1252.5	1226.2	1193.1	1156.4	1111.1	1142.2	1173.8
-30°	1162.9	1157.1	1157.9	1162.0	1157.9	1157.1	1162.9	1176.5	1194.1	1248.0	1325.5
-32.5°	1293.8	1273.7	1263.7	1226.3	1263.7	1273.7	1293.8	1325.2	1364.4	1402.4	1435.6
-35°	1470.4	1468.7	1470.0	1452.5	1470.0	1468.7	1470.4	1476.8	1487.3	1501.3	1505.6
-37.5°	1567.4	1570.3	1573.8	1568.4	1573.8	1570.3	1567.4	1567.0	1565.9	1569.4	1524.8
-40°	1617.5	1625.7	1631.4	1629.9	1631.4	1625.7	1617.5	1608.7	1583.3	1550.0	1468.3
-42.5°	1605.5	1625.6	1635.6	1638.9	1635.6	1625.6	1605.5	1572.9	1507.6	1425.3	1310.0
-45°	1470.5	1552.9	1602.6	1616.3	1602.6	1552.9	1470.5	1364.4	1248.5	1137.5	1026.6
-47.5°	1053.3	1175.3	1289.7	1390.1	1289.7	1175.3	1053.3	920.8	803.0	691.5	568.7
-50°	535.2	549.0	577.2	618.1	577.2	549.0	535.2	520.3	508.3	499.5	485.5
-52.5°	485.4	493.3	501.1	508.6	501.1	493.3	485.4	476.6	467.8	460.0	450.6
-55°	457.4	462.2	465.9	468.8	465.9	462.2	457.4	452.2	446.8	443.4	440.5
-57.5°	442.7	450.8	457.8	463.4	457.8	450.8	442.7	432.9	421.5	412.6	403.4
-60°	387.4	396.4	404.7	411.8	404.7	396.4	387.4	377.1	365.3	356.6	347.8
-62.5°	325.1	333.0	341.1	348.4	341.1	333.0	325.1	315.7	304.8	295.7	286.7
-65°	265.6	273.2	280.0	286.0	280.0	273.2	265.6	257.0	247.2	238.3	229.2
-67.5°	220.1	228.8	237.4	245.3	237.4	228.8	220.1	210.7	200.5	190.4	180.3
-70°	168.9	176.0	182.1	187.3	182.1	176.0	168.9	161.0	152.4	143.3	134.3
-72.5°	117.1	123.8	131.4	138.5	131.4	123.8	117.1	109.7	101.7	93.5	86.6
-75°	63.2	68.0	72.6	76.9	72.6	68.0	63.2	58.1	52.8	48.1	45.9
-77.5°	42.5	46.7	49.7	52.5	49.7	46.7	42.5	38.2	34.0	30.1	28.4
-80°	31.3	34.2	36.6	38.9	36.6	34.2	31.3	28.3	25.3	22.4	21.4
-82.5°	22.9	25.2	27.1	29.0	27.1	25.2	22.9	20.5	18.1	15.8	15.0
-85°	18.5	20.8	22.6	24.4	22.6	20.8	18.5	16.2	13.9	11.6	10.8
-87.5°	16.6	19.1	20.4	21.7	20.4	19.1	16.6	14.2	11.7	9.2	8.6
-90°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1



REPORT NUMBER: P731404 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	11.3	8.8	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
87.5°	1.4	1.6	1.8	2.0	2.3	2.5	2.7	2.7	2.7	2.7	2.7
85°	1.7	1.8	1.8	2.0	2.3	2.5	2.7	2.8	2.9	3.0	3.1
82.5°	2.2	2.3	2.5	2.5	2.5	2.6	2.7	2.9	3.2	3.4	3.6
80°	2.3	2.5	2.7	2.8	2.9	3.0	3.0	3.1	3.2	3.4	3.6
77.5°	2.6	2.6	2.8	3.1	3.4	3.6	3.7	3.8	3.9	4.0	4.1
75°	3.6	3.6	3.7	4.0	4.3	4.4	4.4	4.3	4.3	4.4	4.5
72.5°	6.0	5.9	6.2	6.7	6.9	7.2	7.1	6.6	5.9	5.0	4.5
70°	8.2	8.5	9.5	10.8	11.7	12.1	12.0	11.1	9.5	8.2	7.0
67.5°	9.3	10.0	11.4	13.4	14.9	16.1	17.3	17.9	17.2	15.5	11.4
65°	9.2	10.4	11.5	12.6	14.2	16.7	21.0	23.2	23.8	22.9	17.8
62.5°	7.6	8.7	9.5	10.5	11.7	14.2	20.1	24.9	28.5	28.4	22.6
60°	5.8	6.3	7.2	8.1	9.1	11.9	17.2	23.5	30.8	29.1	24.9
57.5°	5.3	5.7	6.3	6.8	7.1	9.3	13.4	19.1	25.8	25.9	24.2
55°	6.1	6.4	6.7	6.9	7.2	8.2	9.8	13.3	18.4	19.7	19.4
52.5°	6.3	6.8	7.3	7.8	7.9	8.0	8.4	10.3	11.9	14.0	14.8
50°	7.1	7.3	7.5	8.0	8.2	8.2	8.2	8.8	9.8	10.8	11.4
47.5°	8.1	8.2	8.0	8.2	8.6	8.6	8.4	8.4	9.3	9.7	10.2
45°	9.9	9.9	9.6	9.8	9.7	9.6	9.3	9.6	9.7	10.0	10.0
42.5°	17.9	14.4	12.0	13.1	13.4	12.5	11.3	11.6	11.3	10.9	11.7
40°	24.5	27.9	24.3	19.5	18.2	17.6	16.1	14.4	13.9	12.9	14.4
37.5°	29.1	28.4	34.9	37.6	30.3	24.5	22.5	19.4	17.3	17.9	18.9
35°	44.6	43.1	43.7	47.0	49.2	42.3	32.9	26.7	23.3	24.0	24.4
32.5°	68.1	63.7	63.4	61.7	64.6	64.1	52.8	39.6	34.1	32.4	30.9
30°	86.7	82.1	76.7	86.3	91.5	87.4	76.2	67.4	55.4	42.6	38.5
27.5°	108.9	105.7	97.3	116.3	126.8	120.1	112.8	104.6	83.2	62.8	50.4
25°	151.6	141.4	148.1	161.2	170.0	164.7	156.5	145.2	122.8	92.8	75.9
22.5°	213.5	209.5	209.6	209.6	232.5	226.2	204.1	187.6	183.2	169.5	126.9
20°	330.6	305.7	285.6	315.4	338.6	303.5	259.5	279.4	313.7	281.6	196.4
17.5°	585.7	496.2	449.1	492.1	489.9	425.2	456.1	469.6	469.4	421.2	280.1
15°	1023.2	840.0	747.7	705.4	703.2	743.5	776.0	692.2	648.5	572.1	416.7
12.5°	2121.9	1257.2	1071.5	979.0	994.7	1054.0	1102.7	985.2	857.8	791.1	646.6
10°	3788.9	2020.7	1475.2	1320.7	1279.8	1334.5	1360.5	1243.4	1098.0	1032.6	891.8
7.5°	7212.2	3324.5	1888.4	1636.4	1516.5	1501.8	1511.7	1442.4	1323.9	1265.7	1145.2
5°	10179.2	4228.7	2203.8	1881.3	1716.5	1671.8	1663.5	1605.3	1538.5	1491.6	1397.7
2.5°	10885.3	4370.0	2476.0	2107.0	1899.4	1839.3	1831.8	1738.9	1682.0	1611.5	1508.5
0°	12562.2	5096.9	2570.2	2189.2	2000.0	1981.9	2025.4	1861.6	1792.8	1708.6	1600.0
-2.5°	11221.7	4516.8	2477.9	2144.0	1984.2	2001.2	2094.1	1971.3	1868.2	1741.9	1579.3
-5°	9435.6	3960.6	2317.4	2000.4	1869.7	1920.5	2047.5	1988.5	1883.2	1748.7	1529.7
-7.5°	7227.6	3263.6	2110.0	1833.2	1734.9	1809.8	1931.5	1896.7	1784.8	1669.7	1428.4
-10°	4499.5	2429.3	1824.3	1632.6	1601.1	1715.3	1832.0	1791.4	1687.6	1588.7	1310.7
-12.5°	3140.4	1816.5	1532.6	1425.1	1477.1	1648.0	1745.8	1677.4	1594.5	1508.4	1181.1
-15°	1858.8	1500.3	1362.0	1323.7	1405.9	1576.5	1656.6	1590.7	1526.6	1429.9	1044.0
-17.5°	1453.7	1282.4	1226.8	1278.8	1400.2	1502.8	1557.7	1521.7	1446.7	1299.2	879.3
-20°	1245.3	1185.9	1211.6	1278.3	1384.9	1460.2	1490.7	1445.9	1350.2	1095.4	711.5



REPORT NUMBER: P731404 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	1156.8	1208.9	1264.0	1312.9	1343.3	1394.1	1406.8	1356.6	1241.0	880.1	548.1
-25°	1190.3	1289.2	1366.2	1374.1	1333.9	1330.6	1327.5	1256.1	1024.3	681.4	410.9
-27.5°	1279.9	1396.4	1461.6	1426.5	1351.0	1283.3	1239.6	1132.3	802.1	525.0	386.5
-30°	1397.1	1457.1	1476.6	1416.1	1323.8	1251.3	1162.4	889.2	618.3	405.5	368.4
-32.5°	1463.0	1469.9	1441.2	1350.8	1276.6	1209.6	963.3	666.9	447.1	386.3	358.9
-35°	1500.9	1433.8	1348.6	1289.5	1246.9	1022.0	748.7	497.5	398.8	369.7	351.5
-37.5°	1446.3	1343.6	1286.8	1216.0	1025.8	788.9	528.7	419.7	382.1	361.4	349.1
-40°	1365.6	1283.7	1131.8	968.9	749.0	510.8	439.1	404.1	377.8	356.9	349.5
-42.5°	1179.6	1038.3	854.5	644.7	479.8	451.3	423.6	397.0	376.7	362.3	333.6
-45°	856.8	674.1	510.0	480.4	453.0	431.5	412.7	396.8	383.1	349.7	312.6
-47.5°	527.3	496.8	470.1	451.4	432.1	416.9	412.3	402.6	364.4	327.4	290.1
-50°	470.6	456.2	441.6	429.6	423.7	418.5	399.9	373.4	336.3	299.4	263.8
-52.5°	440.9	436.8	432.4	427.8	410.2	387.7	363.6	335.2	302.3	266.9	232.5
-55°	438.4	425.6	408.4	390.2	370.0	345.2	319.6	292.7	262.9	230.3	200.6
-57.5°	393.4	380.1	361.5	341.6	320.4	296.9	272.1	246.6	222.0	194.6	168.2
-60°	337.7	325.4	306.7	287.1	266.6	245.1	223.2	201.7	180.7	160.5	139.2
-62.5°	275.9	263.1	247.0	230.0	211.5	192.1	175.3	160.6	145.2	128.1	108.7
-65°	217.9	204.2	189.3	176.7	163.2	148.8	136.2	123.1	109.2	94.2	77.4
-67.5°	169.5	157.9	146.6	134.8	122.3	108.9	97.3	85.4	75.0	64.6	52.6
-70°	124.8	114.9	104.6	93.6	82.9	73.2	65.0	56.7	47.7	40.4	34.3
-72.5°	79.6	72.5	65.3	57.9	50.8	45.4	40.3	35.2	30.2	25.3	21.8
-75°	43.3	40.3	36.8	33.1	29.1	25.0	22.9	21.9	20.8	19.6	18.2
-77.5°	26.7	25.0	23.5	22.4	21.4	20.3	19.3	18.2	17.2	16.2	15.4
-80°	20.3	19.2	18.0	17.2	16.5	15.7	15.0	14.4	13.9	13.4	12.9
-82.5°	14.1	13.2	12.3	12.0	11.7	11.4	11.1	10.9	10.7	10.6	10.4
-85°	10.0	9.3	8.5	8.4	8.3	8.2	8.0	8.1	8.2	8.3	8.4
-87.5°	7.9	7.1	6.3	6.3	6.3	6.3	6.3	6.5	6.6	6.8	6.9
-90°	1.4	1.6	1.8	2.0	2.3	2.5	2.7	2.7	2.7	2.7	2.7



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	6.1	5.9	5.6	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
87.5°	2.9	3.2	3.4	3.6	3.8	4.1	4.3	4.5	4.5	4.5	4.5
85°	3.2	3.3	3.4	3.6	3.8	4.1	4.3	4.5	4.5	4.5	4.5
82.5°	3.6	3.6	3.6	3.6	3.8	4.1	4.3	4.5	4.5	4.5	4.5
80°	3.8	3.9	3.9	3.9	4.0	4.1	4.3	4.5	4.5	4.5	4.5
77.5°	4.1	4.2	4.3	4.4	4.3	4.3	4.4	4.5	4.5	4.5	4.5
75°	4.5	4.4	4.4	4.5	4.6	4.5	4.5	4.5	4.6	4.5	4.5
72.5°	4.5	4.5	4.5	4.6	4.7	4.8	4.6	4.6	4.7	4.7	4.6
70°	5.8	4.8	4.5	4.6	4.9	5.1	5.0	4.9	4.8	4.9	4.8
67.5°	8.1	6.7	5.6	4.9	4.9	5.1	5.3	5.3	5.2	5.1	5.0
65°	13.1	9.5	7.1	6.1	5.4	5.2	5.4	5.6	5.5	5.4	5.2
62.5°	17.4	12.8	9.5	7.5	6.3	5.6	5.4	5.7	5.9	5.7	5.5
60°	20.9	15.6	12.0	9.7	7.6	6.2	5.8	5.9	6.1	6.0	5.8
57.5°	20.3	17.4	14.9	12.0	9.4	7.3	6.3	6.3	6.3	6.3	6.1
55°	18.1	16.1	16.7	14.6	11.4	8.8	7.1	6.7	6.6	6.6	6.4
52.5°	14.2	15.2	16.9	16.5	13.8	10.5	8.6	7.1	7.0	6.8	6.8
50°	11.3	13.7	16.7	17.6	15.9	12.6	10.0	8.2	7.4	7.2	7.2
47.5°	11.0	13.1	15.3	18.4	17.7	14.5	11.5	9.4	7.7	7.5	7.7
45°	11.9	13.5	14.8	17.2	19.3	16.0	13.0	10.5	8.7	8.1	8.2
42.5°	13.5	14.9	15.8	16.2	18.4	17.0	14.2	11.6	9.6	8.7	8.7
40°	15.8	16.8	17.4	17.7	17.7	17.8	15.0	12.5	10.4	9.5	9.3
37.5°	18.7	19.4	19.6	20.2	18.2	17.7	15.6	13.3	11.6	10.5	10.0
35°	23.7	22.5	23.3	23.6	21.3	18.1	15.9	13.8	12.9	11.6	10.6
32.5°	29.5	28.0	28.5	27.6	25.1	19.0	16.4	15.3	14.4	12.6	11.3
30°	37.5	38.2	34.9	32.1	29.4	22.5	18.1	17.0	15.9	13.6	12.1
27.5°	52.4	50.8	43.2	38.2	33.7	27.1	21.6	18.9	17.5	14.6	12.9
25°	71.5	65.9	55.4	45.3	38.4	40.8	25.5	21.1	19.1	15.9	13.7
22.5°	96.9	83.3	69.3	53.2	58.5	58.9	33.3	24.3	20.8	17.3	14.5
20°	125.9	102.8	90.0	84.5	82.7	77.0	46.5	27.7	22.6	18.6	15.3
17.5°	163.3	143.6	139.8	123.1	109.3	96.7	62.2	31.4	24.5	20.0	16.0
15°	275.6	210.5	193.0	165.4	137.6	117.9	79.7	35.2	26.4	21.4	16.3
12.5°	421.5	279.5	248.9	210.7	167.1	140.1	98.4	39.0	28.3	22.0	16.1
10°	585.6	349.8	306.5	257.9	197.4	163.0	117.7	42.7	29.2	22.0	15.9
7.5°	760.3	420.7	365.0	306.0	227.0	184.4	136.9	46.0	29.9	21.8	15.6
5°	918.8	478.8	411.2	342.5	250.5	203.3	155.5	49.3	30.6	21.6	15.3
2.5°	987.7	515.4	448.4	375.3	272.9	221.2	172.5	52.4	31.2	21.2	14.9
0°	1038.0	549.3	483.3	405.4	294.1	238.0	187.3	55.2	31.7	20.8	14.5
-2.5°	990.0	543.9	475.5	404.1	301.1	241.5	188.0	63.8	37.9	24.5	16.0
-5°	926.9	535.7	465.9	400.2	306.2	243.6	186.3	71.8	43.9	28.0	17.5
-7.5°	871.6	515.1	451.6	393.2	309.2	244.2	182.6	79.1	49.3	31.2	18.8
-10°	801.4	486.7	431.0	376.9	304.8	242.8	177.7	85.5	54.2	34.0	19.9
-12.5°	709.4	457.6	410.1	360.8	298.2	239.9	173.5	91.6	58.6	36.4	20.8
-15°	594.7	428.2	389.4	345.7	290.8	236.2	168.5	96.9	63.0	38.7	21.4
-17.5°	458.9	399.0	369.4	332.5	282.8	231.7	163.3	101.0	66.8	41.2	22.4
-20°	418.5	378.4	350.5	321.9	274.4	226.5	158.0	103.9	69.7	43.0	23.6



REPORT NUMBER: P731404 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-CV5

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	397.2	365.2	340.4	311.0	266.2	220.7	153.1	105.4	71.7	44.1	24.2
-25°	375.4	352.7	333.0	300.4	258.2	211.8	151.2	105.6	72.9	44.3	24.3
-27.5°	359.4	342.0	327.1	289.3	248.8	204.4	150.7	106.5	73.1	43.7	23.8
-30°	347.0	336.0	315.7	277.7	238.4	193.8	148.4	106.2	72.2	42.9	22.7
-32.5°	340.9	332.4	302.3	265.2	225.9	182.4	141.5	104.7	70.2	41.5	22.0
-35°	340.8	322.0	288.4	251.9	212.5	171.7	132.9	101.9	66.9	39.3	21.3
-37.5°	339.7	306.9	272.9	237.2	198.6	160.2	124.8	94.2	62.4	36.1	20.2
-40°	322.0	289.8	256.1	221.6	184.9	148.0	115.4	85.3	57.6	32.0	18.6
-42.5°	302.9	270.4	237.4	205.1	170.8	136.2	104.6	75.5	50.5	28.9	16.6
-45°	280.7	249.0	216.7	186.6	155.9	122.8	92.8	65.1	42.6	26.1	15.1
-47.5°	256.5	224.8	194.8	166.7	139.1	108.2	80.0	55.6	34.3	22.8	14.6
-50°	228.4	199.2	171.7	145.9	119.8	93.0	66.9	45.5	29.5	18.6	13.9
-52.5°	200.6	172.5	148.5	124.7	100.7	76.6	54.8	35.2	24.4	16.5	13.2
-55°	171.7	146.9	125.5	103.3	81.1	61.5	42.0	29.2	19.1	15.4	12.4
-57.5°	145.1	122.5	101.8	81.2	63.1	46.2	32.7	22.9	16.8	14.1	11.9
-60°	118.1	96.9	77.3	61.5	46.2	34.1	25.2	17.9	15.4	13.0	11.3
-62.5°	89.4	71.3	56.7	43.1	33.3	25.6	18.6	16.3	14.0	12.2	10.6
-65°	63.8	50.2	37.3	30.9	24.1	18.7	16.8	14.6	13.0	11.5	10.0
-67.5°	40.7	33.8	27.1	21.0	18.4	16.6	14.9	13.4	12.1	10.7	9.5
-70°	28.2	22.3	19.2	17.6	16.1	14.6	13.6	12.4	11.2	10.1	9.1
-72.5°	20.0	18.3	16.6	15.2	14.3	13.4	12.4	11.5	10.5	9.6	8.6
-75°	16.7	15.6	14.6	13.7	12.9	12.1	11.5	10.8	9.9	9.0	8.0
-77.5°	14.5	13.7	12.9	12.3	11.6	11.1	10.6	10.1	9.2	8.3	7.5
-80°	12.3	11.8	11.2	10.8	10.3	10.0	9.6	9.1	8.3	7.5	6.9
-82.5°	10.1	9.8	9.5	9.2	8.9	8.6	8.3	7.9	7.3	6.8	6.4
-85°	8.2	8.0	7.8	7.6	7.4	7.2	7.1	6.9	6.6	6.3	6.1
-87.5°	6.8	6.7	6.6	6.4	6.4	6.3	6.2	6.2	6.0	5.9	5.7
-90°	2.9	3.2	3.4	3.6	3.8	4.1	4.3	4.5	4.5	4.5	4.5



REPORT NUMBER: P731404 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-CV5

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	5.4	5.2	5.0	4.7	4.5	4.5	4.5
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
85°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
75°	4.5	4.6	4.5	4.5	4.5	4.5	4.5
72.5°	4.6	4.8	4.7	4.5	4.5	4.5	4.5
70°	4.7	4.9	4.9	4.5	4.5	4.5	4.5
67.5°	4.9	5.1	5.0	4.7	4.5	4.5	4.5
65°	5.2	5.2	5.2	4.9	4.5	4.5	4.5
62.5°	5.5	5.5	5.4	5.1	4.5	4.5	4.5
60°	5.7	5.7	5.6	5.3	4.5	4.5	4.5
57.5°	6.0	5.9	5.8	5.4	4.6	4.5	4.5
55°	6.3	6.1	6.0	5.6	4.7	4.5	4.5
52.5°	6.7	6.3	6.2	5.8	4.8	4.5	4.5
50°	7.0	6.6	6.3	6.0	5.0	4.5	4.5
47.5°	7.4	6.9	6.5	6.2	5.0	4.5	4.5
45°	7.8	7.3	6.7	6.3	5.1	4.5	4.5
42.5°	8.3	7.6	6.8	6.5	5.2	4.5	4.5
40°	8.8	7.9	7.0	6.5	5.3	4.5	4.5
37.5°	9.3	8.2	7.3	6.6	5.3	4.5	4.5
35°	9.9	8.6	7.5	6.6	5.4	4.5	4.5
32.5°	10.4	9.0	7.8	6.6	5.4	4.5	4.5
30°	11.0	9.5	8.0	6.6	5.5	4.5	4.5
27.5°	11.6	9.9	8.1	6.6	5.5	4.5	4.5
25°	12.2	10.3	8.1	6.6	5.5	4.5	4.5
22.5°	12.8	10.6	8.1	6.6	5.6	4.5	4.5
20°	13.4	10.6	8.1	6.6	5.6	4.5	4.5
17.5°	13.5	10.5	8.0	6.6	5.6	4.5	4.5
15°	13.2	10.4	8.0	6.6	5.6	4.5	4.5
12.5°	12.9	10.3	7.9	6.5	5.5	4.5	4.5
10°	12.6	10.1	7.8	6.5	5.5	4.5	4.5
7.5°	12.2	9.8	7.6	6.5	5.5	4.5	4.5
5°	11.8	9.6	7.5	6.4	5.5	4.5	4.5
2.5°	11.4	9.3	7.4	6.4	5.4	4.5	4.5
0°	10.9	9.0	7.2	6.3	5.4	4.5	4.5
-2.5°	11.4	9.1	7.3	6.3	5.4	4.5	4.5
-5°	11.8	9.2	7.3	6.3	5.4	4.5	4.5
-7.5°	12.2	9.3	7.4	6.3	5.4	4.6	4.5
-10°	12.5	9.3	7.4	6.3	5.4	4.6	4.5
-12.5°	12.8	9.3	7.5	6.2	5.4	4.6	4.5
-15°	12.9	9.3	7.5	6.2	5.4	4.6	4.5
-17.5°	13.0	9.3	7.5	6.2	5.3	4.6	4.5
-20°	13.2	9.3	7.5	6.1	5.3	4.6	4.5



REPORT NUMBER: P731404 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-CV5

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	13.6	9.2	7.4	6.1	5.3	4.7	4.5
-25°	13.7	9.3	7.3	6.0	5.3	4.7	4.5
-27.5°	13.6	9.4	7.2	6.0	5.3	4.7	4.5
-30°	13.3	9.4	7.1	5.9	5.3	4.7	4.5
-32.5°	12.7	9.4	7.1	5.9	5.3	4.7	4.5
-35°	12.4	9.3	7.1	5.8	5.3	4.7	4.5
-37.5°	12.3	9.2	7.0	5.7	5.3	4.7	4.5
-40°	12.1	9.2	7.0	5.7	5.2	4.7	4.5
-42.5°	11.8	9.0	6.9	5.6	5.2	4.7	4.5
-45°	11.5	8.9	6.9	5.6	5.2	4.7	4.5
-47.5°	11.0	8.7	6.8	5.6	5.2	4.7	4.5
-50°	10.7	8.5	6.8	5.6	5.2	4.7	4.5
-52.5°	10.4	8.2	6.7	5.6	5.3	4.7	4.5
-55°	10.1	8.0	6.6	5.7	5.3	4.7	4.5
-57.5°	9.7	7.9	6.5	5.7	5.3	4.7	4.5
-60°	9.2	7.7	6.4	5.7	5.3	4.7	4.5
-62.5°	9.0	7.5	6.3	5.7	5.2	4.7	4.5
-65°	8.6	7.3	6.3	5.6	5.2	4.7	4.5
-67.5°	8.3	7.1	6.2	5.6	5.1	4.7	4.5
-70°	7.9	6.9	6.1	5.6	5.1	4.6	4.5
-72.5°	7.6	6.6	6.0	5.5	5.0	4.6	4.5
-75°	7.2	6.4	5.8	5.4	4.9	4.6	4.5
-77.5°	6.8	6.1	5.7	5.3	4.9	4.6	4.5
-80°	6.3	5.9	5.6	5.2	4.8	4.6	4.5
-82.5°	6.1	5.7	5.4	5.1	4.7	4.6	4.5
-85°	5.9	5.6	5.3	5.0	4.7	4.5	4.5
-87.5°	5.6	5.4	5.1	4.8	4.6	4.5	4.5
-90°	4.5	4.5	4.5	4.5	4.5	4.5	4.5

(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

