

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: P731324 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-70-5S-CV5**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731324 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-30)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-40-70-5S-CV5
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 5S BEAM SHAPE WITH 5 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

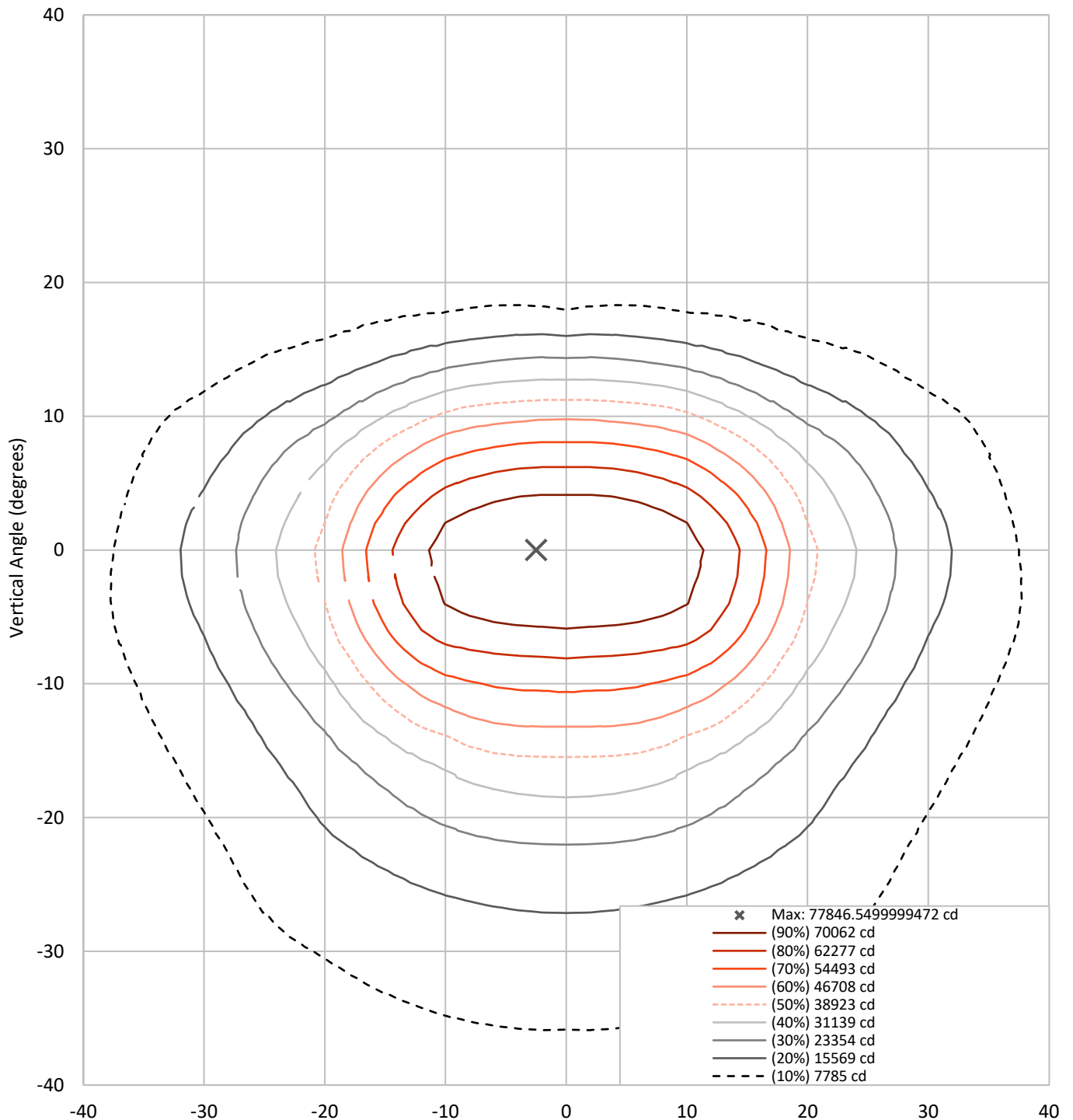
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 4V
Luminaire Lumens:	30847.1 lumens	Max Intensity:	77846.5 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	89.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	41.7°H x 26.5°V	Field Angle (10%):	74.8°H x 54.1°V
Beam Lumens:	15288.5 lumens	Field Lumens:	27652.2 lumens
Beam Efficiency:	49.6%	Field Efficiency:	89.6%

Input Watts (W): 345.8
Input Voltage (V): NR
Input Current (A_{in}): 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





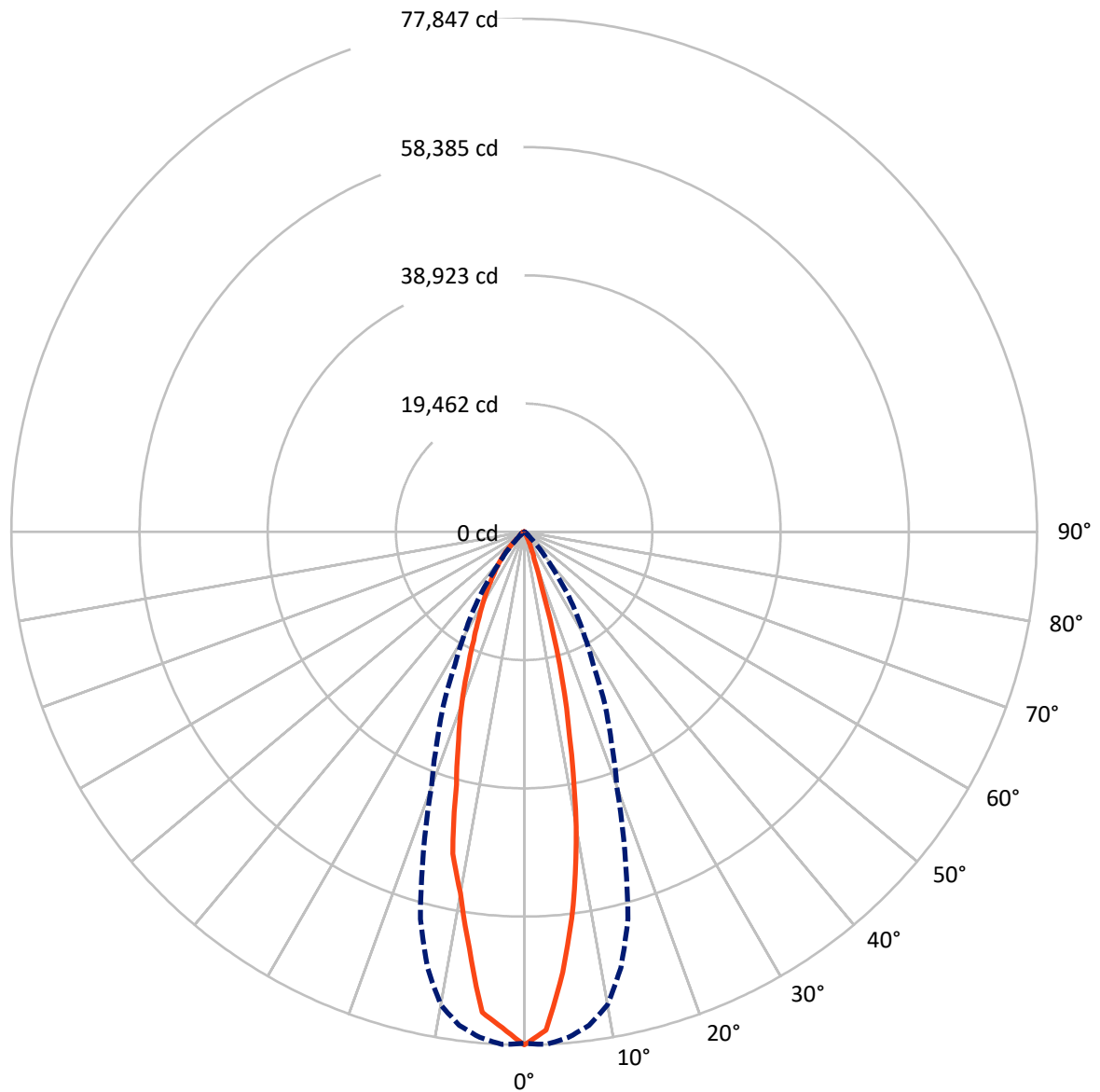
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Lumen Table

90																
80	0.1	0.3		0.5		0.5		0.3		0.5		0.5		0.3		0.1
70																
60	0.1	0.1	0.1	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.1	0.1	0.1
50		0.1	0.2	0.4	0.5	0.2	0.2	0.1	0.1	0.2	0.2	0.5	0.4	0.2	0.1	
40	0.1	0.1	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.1	0.1
30		0.1	0.3	0.5	1.2	2.6	4.0	5.4	5.4	4.0	2.6	1.2	0.5	0.3	0.1	
20	0.2	0.2	0.8	2.2	10.0	22.7	42.7	60.6	60.6	42.7	22.7	10.0	2.2	0.8	0.2	0.2
10		0.5	3.0	13.5	78.4	208.2	427.8	633.4	633.4	427.8	208.2	78.4	13.5	3.0	0.5	
0	0.2	1.0	6.5	40.6	229.4	653.4	1404.3	1934.4	1934.4	1404.3	653.4	229.4	40.6	6.5	1.0	0.2
-10		1.3	8.0	50.3	261.9	714.8	1569.9	2085.6	2085.6	1569.9	714.8	261.9	50.3	8.0	1.3	
-20	0.2	1.4	7.1	32.2	166.5	429.5	870.2	1211.7	1211.7	870.2	429.5	166.5	32.2	7.1	1.4	0.2
-30		1.3	6.0	15.0	87.6	245.3	428.9	555.0	555.0	428.9	245.3	87.6	15.0	6.0	1.3	
-40	0.2	1.0	4.5	9.8	29.3	111.7	199.3	253.9	253.9	199.3	111.7	29.3	9.8	4.5	1.0	0.2
-50		0.7	2.8	7.3	13.2	24.0	52.7	77.4	77.4	52.7	24.0	13.2	7.3	2.8	0.7	
-60	0.1	0.3	1.4	3.9	7.8	12.3	15.8	17.8	17.8	15.8	12.3	7.8	3.9	1.4	0.3	0.1
-70		0.1	0.5	1.4	2.8	4.6	6.5	7.6	7.6	6.5	4.6	2.8	1.4	0.5	0.1	
-80	0.1	0.4		1.4		3.7		4.9		3.7		1.4		0.4		0.1
-90																

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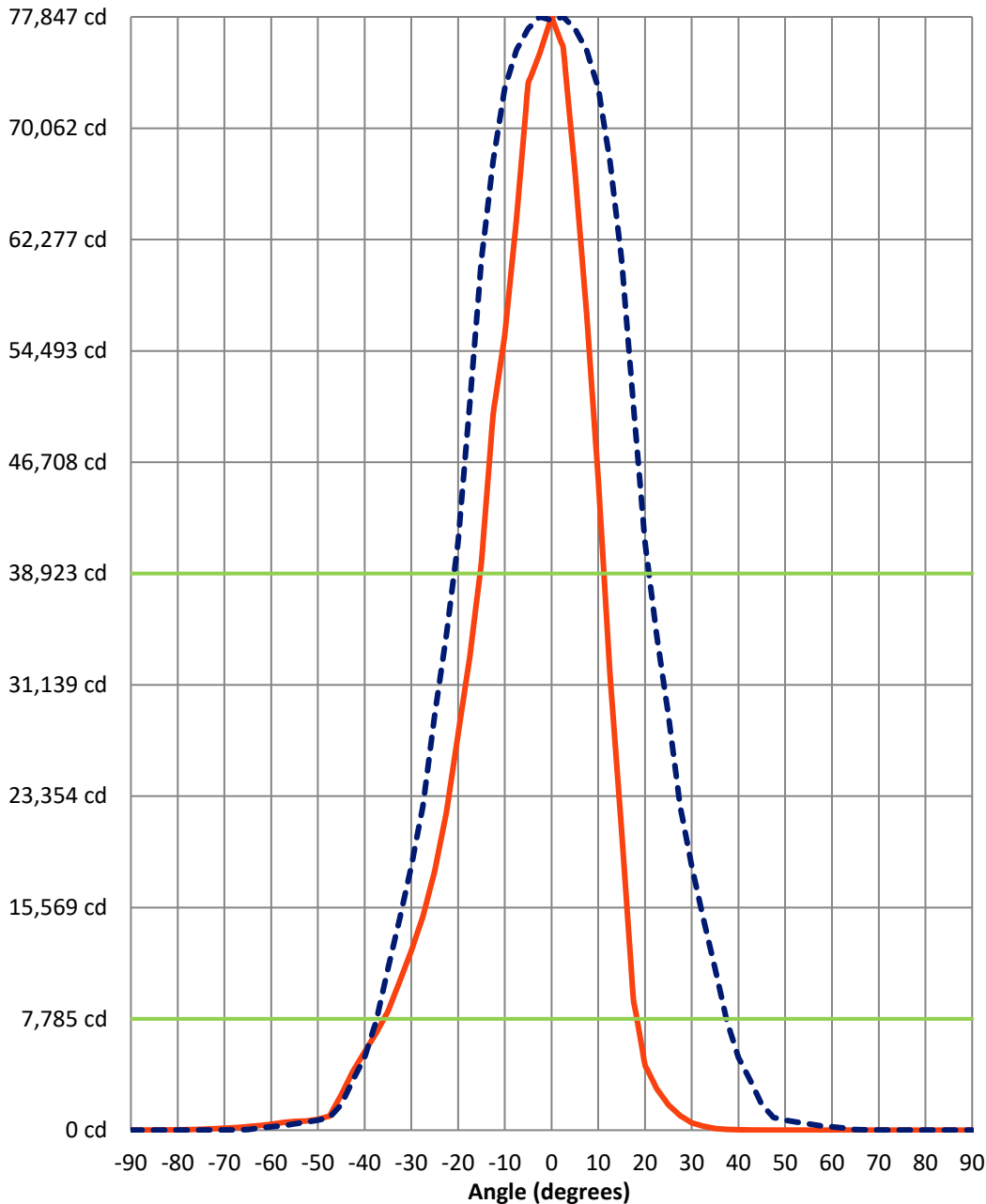
Luminous Intensity Polar Plot



— Vertical Distribution Through -2.5-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 41.7°
 V Angle: 26.5°
 Lumens: 15288.5
 Efficiency: 49.6%

Field:
 H Angle: 74.8°
 V Angle: 54.1°
 Lumens: 27652.2
 Efficiency: 89.6%

Spill:
 Lumens: 3195
 Efficiency: 10.4%

— Vertical Distribution through -2.5-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°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
87.5°	4.7	4.7	4.8	4.9	4.9	5.0	5.0	5.0	4.9	4.8	4.7
85°	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.2	5.1	4.9	4.7
82.5°	4.7	4.8	5.0	5.2	5.3	5.5	5.6	5.5	5.3	5.1	5.0
80°	4.7	4.8	5.1	5.3	5.5	5.7	5.9	5.7	5.5	5.5	5.5
77.5°	4.7	4.8	5.2	5.5	5.7	5.9	5.9	5.8	5.7	5.8	5.9
75°	4.7	4.8	5.3	5.6	5.9	5.9	5.9	5.9	5.9	5.9	5.9
72.5°	4.7	4.9	5.4	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9
70°	4.7	4.9	5.5	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
67.5°	4.7	4.9	5.5	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
65°	4.7	4.9	5.6	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
62.5°	4.7	4.9	5.7	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
60°	4.7	5.0	5.7	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
57.5°	4.7	5.0	5.7	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
55°	4.7	5.0	5.7	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
52.5°	4.7	5.0	5.7	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
50°	4.7	5.0	5.7	5.9	5.9	5.9	5.9	6.0	5.9	5.9	6.3
47.5°	4.7	5.0	5.7	5.9	5.9	5.9	5.9	6.1	5.9	5.9	6.7
45°	4.7	5.0	5.7	5.9	5.9	5.9	6.0	6.2	6.0	6.2	7.0
42.5°	4.7	5.0	5.7	5.9	5.9	5.9	6.1	6.3	6.2	6.6	7.5
40°	4.7	5.0	5.7	5.9	5.9	5.9	6.3	6.5	6.4	6.9	7.9
37.5°	4.7	5.0	5.7	5.9	5.9	5.9	6.4	6.7	6.9	7.4	8.2
35°	4.7	5.0	5.7	5.9	5.9	6.0	6.6	6.9	7.3	7.9	8.4
32.5°	4.7	5.0	5.7	5.9	5.9	6.1	6.8	7.1	7.7	8.5	9.1
30°	4.7	5.0	5.7	5.9	5.9	6.2	6.9	7.4	8.1	9.0	10.0
27.5°	4.7	4.9	5.8	5.9	5.9	6.4	7.1	7.7	8.5	9.7	11.0
25°	4.7	4.9	5.8	5.9	5.9	6.5	7.4	8.0	9.0	10.4	12.2
22.5°	4.7	4.9	5.8	5.9	5.9	6.6	7.6	8.4	9.5	11.3	14.3
20°	4.7	4.9	5.8	5.9	5.9	6.7	7.8	8.7	10.0	12.3	16.7
17.5°	4.7	4.9	5.8	5.9	5.9	6.8	8.0	8.9	10.5	13.3	19.4
15°	4.7	4.9	5.8	5.9	5.9	6.9	8.0	9.1	11.0	14.3	22.2
12.5°	4.7	4.8	5.9	5.9	5.9	7.0	8.1	9.2	11.4	15.4	25.1
10°	4.7	4.8	5.9	5.9	5.9	7.0	8.2	9.3	11.8	16.7	28.3
7.5°	4.7	4.8	5.9	5.9	5.9	7.0	8.2	9.3	12.1	18.2	32.1
5°	4.7	4.8	5.9	5.9	5.9	7.1	8.3	9.4	12.5	19.7	35.8
2.5°	4.7	4.7	5.9	5.9	5.9	7.1	8.3	9.4	12.8	21.1	39.3
0°	4.7	4.7	5.9	5.9	5.9	7.1	8.3	9.4	12.8	21.1	39.3
-2.5°	4.7	4.7	5.9	5.9	6.0	7.2	8.4	10.5	16.2	28.2	51.9
-5°	4.7	4.8	5.9	5.9	6.1	7.3	8.6	11.6	19.2	33.6	60.7
-7.5°	4.7	4.8	5.9	5.9	6.2	7.4	8.7	12.5	22.0	38.7	68.6
-10°	4.7	4.8	5.9	5.9	6.3	7.5	8.8	13.3	24.4	43.1	75.5
-12.5°	4.7	4.8	5.9	5.9	6.4	7.6	8.9	14.0	26.3	46.9	80.9
-15°	4.7	4.9	5.8	5.9	6.4	7.7	8.9	14.4	28.0	50.1	84.8
-17.5°	4.7	4.9	5.8	5.9	6.5	7.7	9.0	15.0	29.4	52.4	87.5
-20°	4.7	4.9	5.8	5.9	6.5	7.8	9.3	15.9	30.3	53.8	88.7



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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-5S-CV5

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.7	4.9	5.8	5.9	6.5	7.8	9.8	16.4	30.5	54.1	88.5
-25°	4.7	4.9	5.8	5.9	6.5	7.8	10.2	16.7	30.1	53.4	86.7
-27.5°	4.7	4.9	5.8	5.9	6.5	7.8	10.4	16.7	29.1	52.0	85.6
-30°	4.7	5.0	5.7	5.9	6.5	7.8	10.3	16.4	28.4	50.7	83.2
-32.5°	4.7	5.0	5.7	5.9	6.4	7.7	10.0	16.2	28.0	48.5	79.1
-35°	4.7	5.0	5.7	5.9	6.3	7.5	9.8	15.9	27.1	45.3	73.6
-37.5°	4.7	5.0	5.7	5.9	6.2	7.4	9.6	15.3	25.8	41.1	65.9
-40°	4.7	5.0	5.7	5.9	6.1	7.3	9.3	14.2	24.0	38.3	58.7
-42.5°	4.7	5.0	5.7	5.9	6.1	7.1	8.9	12.8	22.2	34.9	51.0
-45°	4.7	5.0	5.7	5.9	6.2	7.0	8.5	11.5	20.1	30.9	43.2
-47.5°	4.7	5.0	5.7	6.0	6.2	6.8	7.9	10.8	17.5	26.6	38.3
-50°	4.7	5.0	5.7	6.0	6.2	6.7	7.7	10.1	14.1	22.8	33.0
-52.5°	4.7	5.0	5.7	6.0	6.3	6.5	7.5	9.1	12.2	18.7	27.3
-55°	4.7	5.0	5.7	6.0	6.3	6.5	7.3	8.2	11.0	14.4	22.5
-57.5°	4.7	5.0	5.7	6.0	6.3	6.6	7.1	8.0	9.6	12.3	17.4
-60°	4.7	5.0	5.7	6.0	6.3	6.6	6.9	7.7	8.5	10.8	13.3
-62.5°	4.7	4.9	5.7	6.0	6.3	6.6	6.9	7.4	8.2	9.2	11.5
-65°	4.7	4.9	5.6	6.0	6.2	6.7	6.9	7.2	7.9	8.6	9.7
-67.5°	4.7	4.9	5.5	5.9	6.2	6.6	7.0	7.2	7.5	8.2	8.9
-70°	4.7	4.9	5.5	5.9	6.1	6.5	7.0	7.2	7.4	7.9	8.5
-72.5°	4.7	4.9	5.4	5.8	6.0	6.3	6.8	7.1	7.3	7.6	8.1
-75°	4.7	4.8	5.3	5.6	5.9	6.1	6.5	6.8	7.1	7.3	7.7
-77.5°	4.7	4.8	5.2	5.5	5.7	6.0	6.2	6.5	6.7	7.0	7.2
-80°	4.7	4.8	5.1	5.3	5.5	5.7	5.9	6.1	6.3	6.5	6.7
-82.5°	4.7	4.8	5.0	5.2	5.3	5.5	5.6	5.8	5.9	6.1	6.2
-85°	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7
-87.5°	4.7	4.7	4.8	4.9	4.9	5.0	5.0	5.1	5.1	5.2	5.2
-90°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7



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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°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
87.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
85°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
82.5°	5.1	5.0	4.9	4.7	4.7	4.7	4.7	4.8	4.9	4.9	4.8
80°	5.5	5.3	5.2	5.1	5.2	5.4	5.5	5.7	5.6	5.4	5.1
77.5°	5.7	5.6	5.6	5.7	5.9	5.9	5.9	5.9	5.7	5.4	5.1
75°	5.8	5.9	5.9	5.9	5.9	5.9	5.9	6.1	6.2	6.1	6.0
72.5°	5.9	5.9	5.9	5.9	5.9	6.1	6.4	6.8	7.1	7.1	7.0
70°	5.9	5.9	5.9	5.9	6.0	6.4	7.0	7.6	8.0	8.2	8.6
67.5°	5.9	5.9	5.9	6.0	6.4	7.1	7.7	8.9	10.2	10.8	11.6
65°	5.9	5.9	6.0	6.4	7.0	7.9	9.1	10.7	13.8	15.6	16.3
62.5°	5.9	6.0	6.3	6.9	7.6	8.7	11.0	14.5	18.9	21.5	21.2
60°	5.9	6.0	6.6	7.4	8.3	10.1	13.4	18.0	24.0	28.3	25.5
57.5°	5.9	6.3	7.1	8.2	9.5	11.1	15.4	21.1	27.0	33.5	28.6
55°	6.1	6.7	7.8	9.3	10.6	12.1	16.1	21.2	27.8	31.4	26.6
52.5°	6.5	7.3	8.8	10.2	11.5	12.5	14.3	19.2	22.7	25.3	22.8
50°	7.0	8.2	9.6	10.8	11.8	11.7	11.2	14.9	17.8	18.7	18.5
47.5°	7.6	9.0	10.0	11.1	11.3	11.0	9.9	11.7	13.7	14.6	14.0
45°	8.2	9.4	10.4	10.8	11.0	10.6	10.2	9.7	11.9	12.3	11.7
42.5°	8.7	9.8	10.5	10.6	11.1	11.3	11.3	10.9	11.2	11.5	11.3
40°	9.0	10.1	10.7	11.7	11.9	12.9	13.6	13.5	11.5	12.7	12.9
37.5°	9.3	10.4	11.7	14.1	13.8	15.5	16.7	18.4	16.8	15.7	17.6
35°	9.5	10.9	14.8	17.7	17.9	18.9	23.0	25.0	23.7	22.5	24.8
32.5°	9.9	11.5	19.0	22.1	23.8	25.4	31.2	32.3	33.4	34.0	35.9
30°	10.9	15.3	23.8	26.9	30.6	36.9	40.0	41.0	45.3	51.1	66.9
27.5°	13.1	20.3	28.4	33.2	39.0	49.8	53.9	54.5	61.6	76.7	114.6
25°	15.9	32.2	33.2	40.3	51.2	64.2	72.6	80.8	83.5	129.0	219.3
22.5°	22.3	47.4	52.8	48.0	64.2	81.0	98.9	121.7	156.4	208.8	342.9
20°	33.5	64.1	77.1	80.5	84.5	100.0	129.4	175.4	283.5	470.3	648.4
17.5°	46.5	83.3	104.4	121.5	140.7	147.0	166.0	239.5	444.0	843.0	1309.8
15°	60.7	104.6	133.8	167.3	202.9	230.2	270.1	384.9	714.8	1357.9	2159.3
12.5°	75.8	127.3	164.8	217.0	269.6	318.5	393.3	638.8	1193.7	2085.7	3301.5
10°	91.3	151.0	197.0	269.2	339.6	410.3	521.1	929.4	1760.1	2861.3	4342.0
7.5°	108.2	174.2	229.0	322.7	411.3	504.1	650.9	1242.0	2346.6	3577.8	5243.4
5°	124.7	195.9	257.4	365.7	470.0	585.4	768.7	1558.9	2928.6	4231.4	6060.6
2.5°	140.1	216.3	284.8	404.7	518.3	644.9	833.5	1689.7	3263.7	4713.7	6866.2
0°	153.5	235.0	310.6	440.5	563.3	700.3	890.4	1784.3	3494.2	5083.6	7652.0
-2.5°	159.4	242.1	323.4	451.4	561.5	691.5	890.7	1815.7	3691.8	5522.9	8048.8
-5°	162.9	247.2	333.6	458.4	557.0	678.3	882.0	1801.8	3724.2	5624.5	7892.0
-7.5°	164.4	250.1	340.9	460.0	545.6	652.4	842.6	1670.2	3371.1	5158.7	7157.0
-10°	164.0	249.3	337.9	445.6	524.8	617.9	789.9	1496.8	2962.5	4633.0	6375.7
-12.5°	161.0	245.3	331.3	429.8	504.6	581.6	729.3	1283.3	2514.5	4063.1	5627.8
-15°	156.8	239.7	322.4	413.4	485.9	544.3	661.1	1031.2	2047.7	3552.0	5027.3
-17.5°	151.6	232.6	311.6	396.9	469.5	506.7	588.1	779.0	1630.1	3004.4	4422.7
-20°	145.6	224.2	298.7	381.0	454.3	482.0	549.4	702.3	1288.9	2394.3	3766.3



REPORT NUMBER: P731324 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-5S-CV5

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	139.0	214.5	285.2	364.4	432.3	469.1	515.4	621.3	919.1	1726.2	3057.5
-25°	135.0	204.2	272.1	342.5	410.5	456.7	480.6	543.4	694.9	1302.6	2309.7
-27.5°	132.3	194.1	254.4	319.0	388.9	441.5	461.2	504.4	610.8	863.1	1606.7
-30°	127.7	178.5	235.2	294.9	362.5	417.3	448.8	474.2	538.5	676.6	1102.0
-32.5°	118.2	161.9	215.9	272.3	333.3	394.2	439.5	464.0	505.6	577.1	720.0
-35°	106.9	148.2	196.1	248.4	303.2	365.8	419.1	459.5	479.1	528.4	620.0
-37.5°	96.5	133.5	175.5	224.3	275.9	333.5	395.7	441.2	473.8	496.5	561.8
-40°	85.1	117.9	157.3	201.0	248.2	301.0	358.7	415.1	458.5	496.1	525.2
-42.5°	73.2	104.2	139.3	176.8	221.4	269.1	320.1	376.3	432.2	483.0	522.3
-45°	64.1	89.5	120.9	155.9	193.8	236.8	283.7	332.8	391.0	449.5	500.4
-47.5°	54.3	75.1	103.5	133.6	167.6	205.4	246.5	292.6	341.9	398.3	458.0
-50°	45.2	63.8	84.7	112.4	141.9	174.6	211.0	251.4	295.6	342.6	394.4
-52.5°	38.6	52.0	70.2	91.2	117.3	145.3	177.0	211.8	250.0	290.0	332.1
-55°	31.6	43.0	56.2	73.5	93.5	117.8	144.4	174.8	205.4	241.0	273.2
-57.5°	25.2	34.5	45.0	57.4	73.7	91.5	114.9	139.0	166.5	194.3	218.1
-60°	19.2	26.8	35.6	45.1	55.6	70.9	86.6	106.7	129.0	150.3	170.7
-62.5°	13.8	20.0	27.1	34.8	43.4	52.2	65.1	79.3	93.4	111.3	127.8
-65°	11.8	14.2	19.3	25.8	32.4	40.7	48.8	56.5	68.4	80.0	90.8
-67.5°	9.8	11.7	13.9	17.2	23.2	29.9	36.7	43.9	50.7	56.7	63.4
-70°	9.0	9.3	10.9	12.9	15.6	19.8	25.8	31.8	37.7	43.4	48.8
-72.5°	8.5	8.8	9.1	9.4	11.4	14.4	17.5	20.8	24.9	29.5	34.3
-75°	8.0	8.3	8.5	8.8	9.4	10.5	12.0	14.6	17.2	19.6	21.7
-77.5°	7.5	7.7	7.9	8.1	8.5	9.2	10.1	11.1	12.4	13.8	15.2
-80°	6.9	7.1	7.3	7.4	7.7	8.1	8.5	8.9	9.7	10.7	11.8
-82.5°	6.4	6.5	6.6	6.8	6.9	7.0	7.1	7.4	7.7	8.1	8.6
-85°	5.8	5.9	6.0	6.1	6.2	6.2	6.3	6.4	6.5	6.5	6.6
-87.5°	5.3	5.3	5.3	5.4	5.4	5.5	5.5	5.5	5.6	5.6	5.7
-90°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7



REPORT NUMBER: P731324 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-5S-CV5

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	4.7	5.0	5.3	5.6	5.9	6.8	7.6	8.5	9.4	9.1	8.8
87.5°	4.7	4.4	4.1	3.8	3.5	3.2	3.0	2.7	2.4	2.1	1.8
85°	4.7	4.6	4.5	4.5	4.5	4.2	4.0	3.7	3.4	2.9	2.3
82.5°	4.7	4.7	4.7	4.7	4.7	4.4	4.1	3.8	3.5	2.9	2.4
80°	4.7	4.7	4.7	4.7	4.7	4.4	4.1	3.8	3.5	3.0	2.4
77.5°	4.9	4.9	4.9	4.9	4.7	4.5	4.2	3.8	3.5	3.0	2.4
75°	5.9	5.8	5.5	5.2	4.8	4.5	4.2	3.9	3.6	3.2	2.9
72.5°	6.9	6.7	6.3	6.1	5.8	5.5	5.3	5.0	4.6	4.3	4.0
70°	9.1	9.3	9.1	8.6	7.9	7.3	6.8	6.3	5.8	5.3	4.8
67.5°	12.3	12.3	11.7	10.8	9.4	8.1	7.5	6.8	6.2	5.8	5.8
65°	16.1	14.7	13.3	11.6	9.9	8.2	7.6	6.9	6.3	5.9	5.9
62.5°	19.6	15.9	12.8	10.8	9.4	8.2	7.3	6.5	5.6	5.0	4.9
60°	21.1	15.0	10.8	9.4	8.2	7.2	6.4	5.7	5.1	4.6	4.4
57.5°	21.1	14.2	9.1	7.9	6.9	6.2	5.7	5.4	5.0	4.7	4.3
55°	19.2	12.7	7.5	6.8	6.5	6.1	5.8	5.4	5.1	4.7	4.4
52.5°	15.7	11.2	8.0	6.9	6.6	6.2	5.9	5.5	5.1	4.8	4.4
50°	13.7	10.2	8.1	7.0	6.7	6.3	5.9	5.8	5.8	5.6	5.3
47.5°	11.8	9.4	8.1	7.2	7.0	7.5	7.9	8.0	7.8	7.5	7.2
45°	10.3	9.0	8.4	8.7	9.1	9.8	10.2	10.3	10.3	10.4	10.3
42.5°	10.2	10.3	11.0	12.2	12.1	13.6	14.4	12.7	14.5	15.5	14.6
40°	13.6	13.9	17.2	19.8	22.3	22.7	26.5	27.0	27.5	29.2	29.5
37.5°	19.9	23.4	33.4	41.0	44.2	44.5	50.0	51.2	49.6	56.4	58.4
35°	30.5	46.2	62.5	72.0	77.3	81.2	88.8	97.5	93.4	108.4	113.7
32.5°	54.7	83.5	113.2	112.1	122.1	149.0	159.1	174.9	191.4	216.8	244.5
30°	92.0	169.8	204.2	191.7	220.0	258.5	258.8	302.9	364.4	416.7	495.5
27.5°	207.2	294.3	339.3	359.4	380.9	429.5	489.6	545.8	702.4	809.5	922.1
25°	351.7	472.1	520.3	595.0	662.8	707.8	889.7	1022.5	1247.6	1411.0	1580.1
22.5°	567.1	726.3	826.0	893.6	1122.1	1325.2	1519.6	1808.8	2032.3	2312.6	2523.8
20°	836.9	1051.8	1417.9	1705.2	1848.7	2280.3	2631.8	2930.7	3327.1	3674.7	3983.8
17.5°	1579.1	1699.8	2464.8	3213.3	3515.9	4073.8	5084.6	5465.9	6607.4	7443.3	7894.7
15°	2859.2	3443.3	4249.0	5496.9	6881.2	7974.7	8932.8	10894.8	13072.9	15003.7	17036.5
12.5°	4521.3	5663.6	7019.4	8545.9	11040.1	13019.3	15139.3	17943.2	21461.7	24524.0	28126.6
10°	6186.4	8116.4	9990.6	12369.3	15519.8	18575.6	21629.1	26070.0	31238.5	36200.8	40491.3
7.5°	7563.1	10179.6	12719.5	16008.0	20299.3	24556.9	28824.5	34698.2	41533.8	47197.2	52066.0
5°	8964.4	12241.1	15220.5	19013.1	24063.7	29249.1	34589.8	41913.8	49987.8	56400.8	61424.1
2.5°	10251.0	13964.1	17412.6	21641.5	27265.8	32339.3	38418.6	47409.8	57030.6	63948.8	69486.7
0°	11290.2	14770.2	18454.5	22710.3	29025.6	34618.1	41133.0	50774.7	60841.5	67753.7	72863.9
-2.5°	11066.5	14586.4	18031.1	22355.0	28695.2	33843.9	40439.3	49925.8	59871.9	66894.5	71484.2
-5°	10368.2	13483.6	16576.5	20637.3	26212.7	31229.7	37688.7	47440.0	56980.4	64141.7	69422.9
-7.5°	9335.6	11980.8	14786.1	18486.4	23339.4	28138.7	33756.5	41527.9	50432.4	56910.1	60738.0
-10°	8248.4	10438.5	13065.7	16192.8	20198.1	24508.7	29174.2	35399.7	43008.4	48689.1	52320.5
-12.5°	7295.5	9193.1	11536.7	13849.6	17117.4	20956.6	25099.4	30193.8	35214.4	41204.9	44344.5
-15°	6417.8	7999.5	10013.3	12230.9	14946.5	17963.8	20932.3	24746.7	28016.1	31758.0	34476.6
-17.5°	5683.4	6946.6	8731.0	10880.0	12924.7	15523.0	18355.8	20939.6	23703.8	26404.9	28659.4
-20°	5019.7	6061.9	7583.4	9475.5	11490.1	13699.6	16199.3	18302.5	20561.2	22613.7	24377.1



REPORT NUMBER: P731324 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-5S-CV5

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	4265.4	5322.2	6500.6	8119.4	10137.0	12117.9	13968.9	15558.4	17265.2	18923.8	20175.9
-25°	3480.4	4494.7	5622.8	7150.6	8803.4	10470.1	11781.1	12900.1	14232.4	15427.6	16502.1
-27.5°	2668.7	3750.1	4966.9	6242.9	7680.5	8739.7	9842.9	10855.0	11867.5	12671.7	13579.1
-30°	1855.3	3035.3	4232.0	5439.8	6424.5	7270.0	8092.8	9020.9	9937.1	10701.4	11341.9
-32.5°	1274.1	2125.2	3332.8	4456.0	5297.7	6016.3	6651.8	7443.2	8153.2	8782.2	9342.6
-35°	765.2	1364.9	2194.0	3261.5	4182.5	4881.6	5528.9	6129.0	6659.0	7188.7	7610.2
-37.5°	655.6	788.4	1291.3	2001.1	2877.5	3723.6	4388.7	4950.4	5444.2	5852.2	6209.8
-40°	590.3	668.9	778.8	1021.0	1666.4	2312.5	3038.3	3678.6	4199.5	4582.7	4893.9
-42.5°	551.8	602.2	656.0	742.2	838.1	1144.8	1700.2	2230.7	2688.4	3112.9	3477.3
-45°	545.2	566.6	595.5	644.2	688.4	767.9	854.7	939.5	1299.6	1640.7	1920.7
-47.5°	504.4	547.8	574.4	596.2	619.4	657.0	693.7	732.9	798.4	859.9	912.7
-50°	444.8	491.6	531.7	570.9	591.5	606.8	621.9	641.4	667.0	690.4	711.8
-52.5°	371.6	416.7	461.7	503.5	536.2	566.2	593.2	605.9	615.6	624.3	631.2
-55°	306.8	342.3	377.7	416.0	453.7	489.7	520.7	541.2	559.7	576.0	590.0
-57.5°	245.6	273.3	302.2	333.2	363.4	392.4	420.0	445.2	467.6	487.1	503.4
-60°	190.3	208.9	233.0	257.7	281.2	303.4	325.8	346.1	364.6	380.8	393.5
-62.5°	142.8	158.3	176.6	194.0	209.4	226.0	246.9	264.4	278.7	290.4	300.6
-65°	102.5	115.5	130.2	144.8	159.1	173.3	187.9	202.0	215.5	226.2	233.8
-67.5°	72.8	82.0	92.3	101.4	112.1	124.5	137.8	149.9	160.9	168.5	173.1
-70°	53.7	59.0	66.5	75.2	84.2	92.4	100.9	109.2	117.5	123.4	127.8
-72.5°	39.2	44.5	50.0	55.6	61.6	67.7	73.8	80.0	86.3	90.1	92.8
-75°	23.7	26.9	31.7	36.3	40.9	45.1	49.1	52.9	56.4	58.2	59.4
-77.5°	17.0	19.2	21.6	24.1	26.5	29.0	31.6	34.1	36.5	37.6	38.4
-80°	13.0	14.2	15.6	17.0	18.5	20.0	21.5	23.1	24.6	24.8	24.9
-82.5°	9.2	10.1	11.0	11.9	12.8	13.6	14.4	15.2	16.0	16.2	16.3
-85°	6.7	7.2	7.8	8.3	9.0	9.6	10.2	10.9	11.5	11.6	11.7
-87.5°	5.7	6.0	6.3	6.7	7.0	7.3	7.7	8.0	8.3	8.3	8.3
-90°	4.7	4.4	4.1	3.8	3.5	3.2	3.0	2.7	2.4	2.1	1.8



REPORT NUMBER: P731324 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-5S-CV5

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	8.6	8.3	8.3	8.3	8.3	8.3	8.6	8.8	9.1	9.4	8.5
87.5°	1.5	1.2	0.6	0.0	0.6	1.2	1.5	1.8	2.1	2.4	2.7
85°	1.8	1.2	1.2	1.2	1.2	1.2	1.8	2.3	2.9	3.4	3.7
82.5°	1.8	1.2	1.2	1.2	1.2	1.2	1.8	2.4	2.9	3.5	3.8
80°	1.8	1.2	1.2	1.2	1.2	1.2	1.8	2.4	3.0	3.5	3.8
77.5°	1.8	1.2	1.2	1.2	1.2	1.2	1.8	2.4	3.0	3.5	3.8
75°	2.7	2.4	1.8	1.2	1.8	2.4	2.7	2.9	3.2	3.6	3.9
72.5°	3.8	3.5	3.5	3.5	3.5	3.5	3.8	4.0	4.3	4.6	5.0
70°	4.2	3.6	3.5	3.5	3.5	3.6	4.2	4.8	5.3	5.8	6.3
67.5°	5.8	5.8	5.3	4.7	5.3	5.8	5.8	5.8	5.8	6.2	6.8
65°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.3	6.9
62.5°	4.8	4.8	4.7	4.7	4.7	4.8	4.8	4.9	5.0	5.6	6.5
60°	4.0	3.6	3.5	3.5	3.5	3.6	4.0	4.4	4.6	5.1	5.7
57.5°	4.0	3.6	3.5	3.5	3.5	3.6	4.0	4.3	4.7	5.0	5.4
55°	4.0	3.6	3.5	3.5	3.5	3.6	4.0	4.4	4.7	5.1	5.4
52.5°	4.0	3.7	3.9	4.7	3.9	3.7	4.0	4.4	4.8	5.1	5.5
50°	5.1	4.8	4.7	4.7	4.7	4.8	5.1	5.3	5.6	5.8	5.8
47.5°	6.8	6.2	5.9	5.9	5.9	6.2	6.8	7.2	7.5	7.8	8.0
45°	9.7	8.8	8.2	8.3	8.2	8.8	9.7	10.3	10.4	10.3	10.3
42.5°	14.5	14.2	14.1	14.2	14.1	14.2	14.5	14.6	15.5	14.5	12.7
40°	31.1	31.6	31.4	31.9	31.4	31.6	31.1	29.5	29.2	27.5	27.0
37.5°	58.6	56.7	53.7	54.3	53.7	56.7	58.6	58.4	56.4	49.6	51.2
35°	114.4	117.3	117.1	118.1	117.1	117.3	114.4	113.7	108.4	93.4	97.5
32.5°	264.6	278.6	278.9	284.6	278.9	278.6	264.6	244.5	216.8	191.4	174.9
30°	519.8	531.0	514.1	521.9	514.1	531.0	519.8	495.5	416.7	364.4	302.9
27.5°	980.6	1021.9	1021.5	1003.7	1021.5	1021.9	980.6	922.1	809.5	702.4	545.8
25°	1722.4	1786.2	1774.4	1753.6	1774.4	1786.2	1722.4	1580.1	1411.0	1247.6	1022.5
22.5°	2715.6	2821.1	2905.6	2850.6	2905.6	2821.1	2715.6	2523.8	2312.6	2032.3	1808.8
20°	4438.7	4468.8	4558.5	4526.2	4558.5	4468.8	4438.7	3983.8	3674.7	3327.1	2930.7
17.5°	9117.7	9444.8	9217.3	8524.6	9217.3	9444.8	9117.7	7894.7	7443.3	6607.4	5465.9
15°	18464.4	19835.4	20900.0	20315.5	20900.0	19835.4	18464.4	17036.5	15003.7	13072.9	10894.8
12.5°	30237.9	31249.5	31926.3	31976.0	31926.3	31249.5	30237.9	28126.6	24524.0	21461.7	17943.2
10°	43400.8	44294.7	45492.0	45660.4	45492.0	44294.7	43400.8	40491.3	36200.8	31238.5	26070.0
7.5°	54482.3	56295.0	57134.3	57021.5	57134.3	56295.0	54482.3	52066.0	47197.2	41533.8	34698.2
5°	64392.8	66270.8	67093.3	67230.0	67093.3	66270.8	64392.8	61424.1	56400.8	49987.8	41913.8
2.5°	72803.8	74699.7	75688.0	75417.0	75688.0	74699.7	72803.8	69486.7	63948.8	57030.6	47409.8
0°	75524.9	77018.2	77846.5	77619.2	77846.5	77018.2	75524.9	72863.9	67753.7	60841.5	50774.7
-2.5°	73795.1	74694.8	75319.1	75078.0	75319.1	74694.8	73795.1	71484.2	66894.5	59871.9	49925.8
-5°	71878.0	72945.6	73179.2	73465.0	73179.2	72945.6	71878.0	69422.9	64141.7	56980.4	47440.0
-7.5°	62194.1	63336.2	63713.4	64284.9	63713.4	63336.2	62194.1	60738.0	56910.1	50432.4	41527.9
-10°	54296.6	55577.6	55639.3	55991.7	55639.3	55577.6	54296.6	52320.5	48689.1	43008.4	35399.7
-12.5°	47681.5	49444.2	50029.1	49889.1	50029.1	49444.2	47681.5	44344.5	41204.9	35214.4	30193.8
-15°	38096.0	39601.8	39709.3	39779.7	39709.3	39601.8	38096.0	34476.6	31758.0	28016.1	24746.7
-17.5°	31051.7	32514.9	33079.0	33254.3	33079.0	32514.9	31051.7	28659.4	26404.9	23703.8	20939.6
-20°	25890.8	26980.1	27669.2	27954.5	27669.2	26980.1	25890.8	24377.1	22613.7	20561.2	18302.5



REPORT NUMBER: P731324 (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°	21270.3	21960.8	22212.7	22275.8	22212.7	21960.8	21270.3	20175.9	18923.8	17265.2	15558.4
-25°	17256.8	17805.3	18124.2	18257.3	18124.2	17805.3	17256.8	16502.1	15427.6	14232.4	12900.1
-27.5°	14167.6	14655.8	14962.8	15009.9	14962.8	14655.8	14167.6	13579.1	12671.7	11867.5	10855.0
-30°	11832.2	12260.9	12547.7	12625.8	12547.7	12260.9	11832.2	11341.9	10701.4	9937.1	9020.9
-32.5°	9804.2	10171.1	10396.1	10493.1	10396.1	10171.1	9804.2	9342.6	8782.2	8153.2	7443.2
-35°	7924.9	8171.5	8315.6	8268.4	8315.6	8171.5	7924.9	7610.2	7188.7	6659.0	6129.0
-37.5°	6496.7	6695.1	6803.0	6808.8	6803.0	6695.1	6496.7	6209.8	5852.2	5444.2	4950.4
-40°	5151.7	5353.3	5474.7	5481.6	5474.7	5353.3	5151.7	4893.9	4582.7	4199.5	3678.6
-42.5°	3767.1	3973.5	4114.5	4206.2	4114.5	3973.5	3767.1	3477.3	3112.9	2688.4	2230.7
-45°	2154.2	2332.6	2468.5	2567.2	2468.5	2332.6	2154.2	1920.7	1640.7	1299.6	939.5
-47.5°	952.1	981.0	993.6	989.6	993.6	981.0	952.1	912.7	859.9	798.4	732.9
-50°	731.5	748.6	757.1	756.9	757.1	748.6	731.5	711.8	690.4	667.0	641.4
-52.5°	636.7	641.0	643.6	644.8	643.6	641.0	636.7	631.2	624.3	615.6	605.9
-55°	601.4	610.5	613.9	612.9	613.9	610.5	601.4	590.0	576.0	559.7	541.2
-57.5°	517.3	528.4	535.9	539.7	535.9	528.4	517.3	503.4	487.1	467.6	445.2
-60°	403.0	409.7	413.8	415.7	413.8	409.7	403.0	393.5	380.8	364.6	346.1
-62.5°	309.5	317.1	320.9	322.4	320.9	317.1	309.5	300.6	290.4	278.7	264.4
-65°	240.4	246.0	249.0	250.3	249.0	246.0	240.4	233.8	226.2	215.5	202.0
-67.5°	176.6	179.1	180.3	180.7	180.3	179.1	176.6	173.1	168.5	160.9	149.9
-70°	131.9	135.5	137.8	139.3	137.8	135.5	131.9	127.8	123.4	117.5	109.2
-72.5°	95.1	96.9	98.3	99.2	98.3	96.9	95.1	92.8	90.1	86.3	80.0
-75°	60.3	60.9	61.3	61.4	61.3	60.9	60.3	59.4	58.2	56.4	52.9
-77.5°	39.2	39.8	40.6	41.3	40.6	39.8	39.2	38.4	37.6	36.5	34.1
-80°	24.8	24.7	24.8	24.8	24.8	24.7	24.8	24.9	24.8	24.6	23.1
-82.5°	16.4	16.4	16.5	16.5	16.5	16.4	16.4	16.3	16.2	16.0	15.2
-85°	11.7	11.8	11.8	11.8	11.8	11.8	11.7	11.7	11.6	11.5	10.9
-87.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.0
-90°	1.5	1.2	0.6	0.0	0.6	1.2	1.5	1.8	2.1	2.4	2.7



REPORT NUMBER: P731324 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-5S-CV5

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	7.6	6.8	5.9	5.6	5.3	5.0	4.7	4.7	4.7	4.7	4.7
87.5°	3.0	3.2	3.5	3.8	4.1	4.4	4.7	4.7	4.7	4.7	4.7
85°	4.0	4.2	4.5	4.5	4.5	4.6	4.7	4.7	4.7	4.7	4.7
82.5°	4.1	4.4	4.7	4.7	4.7	4.7	4.7	4.8	4.9	4.9	4.8
80°	4.1	4.4	4.7	4.7	4.7	4.7	4.7	5.1	5.4	5.6	5.7
77.5°	4.2	4.5	4.7	4.9	4.9	4.9	4.9	5.1	5.4	5.7	5.9
75°	4.2	4.5	4.8	5.2	5.5	5.8	5.9	6.0	6.1	6.2	6.1
72.5°	5.3	5.5	5.8	6.1	6.3	6.7	6.9	7.0	7.1	7.1	6.8
70°	6.8	7.3	7.9	8.6	9.1	9.3	9.1	8.6	8.2	8.0	7.6
67.5°	7.5	8.1	9.4	10.8	11.7	12.3	12.3	11.6	10.8	10.2	8.9
65°	7.6	8.2	9.9	11.6	13.3	14.7	16.1	16.3	15.6	13.8	10.7
62.5°	7.3	8.2	9.4	10.8	12.8	15.9	19.6	21.2	21.5	18.9	14.5
60°	6.4	7.2	8.2	9.4	10.8	15.0	21.1	25.5	28.3	24.0	18.0
57.5°	5.7	6.2	6.9	7.9	9.1	14.2	21.1	28.6	33.5	27.0	21.1
55°	5.8	6.1	6.5	6.8	7.5	12.7	19.2	26.6	31.4	27.8	21.2
52.5°	5.9	6.2	6.6	6.9	8.0	11.2	15.7	22.8	25.3	22.7	19.2
50°	5.9	6.3	6.7	7.0	8.1	10.2	13.7	18.5	18.7	17.8	14.9
47.5°	7.9	7.5	7.0	7.2	8.1	9.4	11.8	14.0	14.6	13.7	11.7
45°	10.2	9.8	9.1	8.7	8.4	9.0	10.3	11.7	12.3	11.9	9.7
42.5°	14.4	13.6	12.1	12.2	11.0	10.3	10.2	11.3	11.5	11.2	10.9
40°	26.5	22.7	22.3	19.8	17.2	13.9	13.6	12.9	12.7	11.5	13.5
37.5°	50.0	44.5	44.2	41.0	33.4	23.4	19.9	17.6	15.7	16.8	18.4
35°	88.8	81.2	77.3	72.0	62.5	46.2	30.5	24.8	22.5	23.7	25.0
32.5°	159.1	149.0	122.1	112.1	113.2	83.5	54.7	35.9	34.0	33.4	32.3
30°	258.8	258.5	220.0	191.7	204.2	169.8	92.0	66.9	51.1	45.3	41.0
27.5°	489.6	429.5	380.9	359.4	339.3	294.3	207.2	114.6	76.7	61.6	54.5
25°	889.7	707.8	662.8	595.0	520.3	472.1	351.7	219.3	129.0	83.5	80.8
22.5°	1519.6	1325.2	1122.1	893.6	826.0	726.3	567.1	342.9	208.8	156.4	121.7
20°	2631.8	2280.3	1848.7	1705.2	1417.9	1051.8	836.9	648.4	470.3	283.5	175.4
17.5°	5084.6	4073.8	3515.9	3213.3	2464.8	1699.8	1579.1	1309.8	843.0	444.0	239.5
15°	8932.8	7974.7	6881.2	5496.9	4249.0	3443.3	2859.2	2159.3	1357.9	714.8	384.9
12.5°	15139.3	13019.3	11040.1	8545.9	7019.4	5663.6	4521.3	3301.5	2085.7	1193.7	638.8
10°	21629.1	18575.6	15519.8	12369.3	9990.6	8116.4	6186.4	4342.0	2861.3	1760.1	929.4
7.5°	28824.5	24556.9	20299.3	16008.0	12719.5	10179.6	7563.1	5243.4	3577.8	2346.6	1242.0
5°	34589.8	29249.1	24063.7	19013.1	15220.5	12241.1	8964.4	6060.6	4231.4	2928.6	1558.9
2.5°	38418.6	32339.3	27265.8	21641.5	17412.6	13964.1	10251.0	6866.2	4713.7	3263.7	1689.7
0°	41133.0	34618.1	29025.6	22710.3	18454.5	14770.2	11290.2	7652.0	5083.6	3494.2	1784.3
-2.5°	40439.3	33843.9	28695.2	22355.0	18031.1	14586.4	11066.5	8048.8	5522.9	3691.8	1815.7
-5°	37688.7	31229.7	26212.7	20637.3	16576.5	13483.6	10368.2	7892.0	5624.5	3724.2	1801.8
-7.5°	33756.5	28138.7	23339.4	18486.4	14786.1	11980.8	9335.6	7157.0	5158.7	3371.1	1670.2
-10°	29174.2	24508.7	20198.1	16192.8	13065.7	10438.5	8248.4	6375.7	4633.0	2962.5	1496.8
-12.5°	25099.4	20956.6	17117.4	13849.6	11536.7	9193.1	7295.5	5627.8	4063.1	2514.5	1283.3
-15°	20932.3	17963.8	14946.5	12230.9	10013.3	7999.5	6417.8	5027.3	3552.0	2047.7	1031.2
-17.5°	18355.8	15523.0	12924.7	10880.0	8731.0	6946.6	5683.4	4422.7	3004.4	1630.1	779.0
-20°	16199.3	13699.6	11490.1	9475.5	7583.4	6061.9	5019.7	3766.3	2394.3	1288.9	702.3



REPORT NUMBER: P731324 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-5S-CV5

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	13968.9	12117.9	10137.0	8119.4	6500.6	5322.2	4265.4	3057.5	1726.2	919.1	621.3
-25°	11781.1	10470.1	8803.4	7150.6	5622.8	4494.7	3480.4	2309.7	1302.6	694.9	543.4
-27.5°	9842.9	8739.7	7680.5	6242.9	4966.9	3750.1	2668.7	1606.7	863.1	610.8	504.4
-30°	8092.8	7270.0	6424.5	5439.8	4232.0	3035.3	1855.3	1102.0	676.6	538.5	474.2
-32.5°	6651.8	6016.3	5297.7	4456.0	3332.8	2125.2	1274.1	720.0	577.1	505.6	464.0
-35°	5528.9	4881.6	4182.5	3261.5	2194.0	1364.9	765.2	620.0	528.4	479.1	459.5
-37.5°	4388.7	3723.6	2877.5	2001.1	1291.3	788.4	655.6	561.8	496.5	473.8	441.2
-40°	3038.3	2312.5	1666.4	1021.0	778.8	668.9	590.3	525.2	496.1	458.5	415.1
-42.5°	1700.2	1144.8	838.1	742.2	656.0	602.2	551.8	522.3	483.0	432.2	376.3
-45°	854.7	767.9	688.4	644.2	595.5	566.6	545.2	500.4	449.5	391.0	332.8
-47.5°	693.7	657.0	619.4	596.2	574.4	547.8	504.4	458.0	398.3	341.9	292.6
-50°	621.9	606.8	591.5	570.9	531.7	491.6	444.8	394.4	342.6	295.6	251.4
-52.5°	593.2	566.2	536.2	503.5	461.7	416.7	371.6	332.1	290.0	250.0	211.8
-55°	520.7	489.7	453.7	416.0	377.7	342.3	306.8	273.2	241.0	205.4	174.8
-57.5°	420.0	392.4	363.4	333.2	302.2	273.3	245.6	218.1	194.3	166.5	139.0
-60°	325.8	303.4	281.2	257.7	233.0	208.9	190.3	170.7	150.3	129.0	106.7
-62.5°	246.9	226.0	209.4	194.0	176.6	158.3	142.8	127.8	111.3	93.4	79.3
-65°	187.9	173.3	159.1	144.8	130.2	115.5	102.5	90.8	80.0	68.4	56.5
-67.5°	137.8	124.5	112.1	101.4	92.3	82.0	72.8	63.4	56.7	50.7	43.9
-70°	100.9	92.4	84.2	75.2	66.5	59.0	53.7	48.8	43.4	37.7	31.8
-72.5°	73.8	67.7	61.6	55.6	50.0	44.5	39.2	34.3	29.5	24.9	20.8
-75°	49.1	45.1	40.9	36.3	31.7	26.9	23.7	21.7	19.6	17.2	14.6
-77.5°	31.6	29.0	26.5	24.1	21.6	19.2	17.0	15.2	13.8	12.4	11.1
-80°	21.5	20.0	18.5	17.0	15.6	14.2	13.0	11.8	10.7	9.7	8.9
-82.5°	14.4	13.6	12.8	11.9	11.0	10.1	9.2	8.6	8.1	7.7	7.4
-85°	10.2	9.6	9.0	8.3	7.8	7.2	6.7	6.6	6.5	6.5	6.4
-87.5°	7.7	7.3	7.0	6.7	6.3	6.0	5.7	5.7	5.6	5.6	5.5
-90°	3.0	3.2	3.5	3.8	4.1	4.4	4.7	4.7	4.7	4.7	4.7



REPORT NUMBER: P731324 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
87.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.8	4.9	5.0
85°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.9	5.1	5.2
82.5°	4.7	4.7	4.7	4.7	4.9	5.0	5.1	5.0	5.1	5.3	5.5
80°	5.5	5.4	5.2	5.1	5.2	5.3	5.5	5.5	5.5	5.5	5.7
77.5°	5.9	5.9	5.9	5.7	5.6	5.6	5.7	5.9	5.8	5.7	5.8
75°	5.9	5.9	5.9	5.9	5.9	5.9	5.8	5.9	5.9	5.9	5.9
72.5°	6.4	6.1	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
70°	7.0	6.4	6.0	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
67.5°	7.7	7.1	6.4	6.0	5.9	5.9	5.9	5.9	5.9	5.9	5.9
65°	9.1	7.9	7.0	6.4	6.0	5.9	5.9	5.9	5.9	5.9	5.9
62.5°	11.0	8.7	7.6	6.9	6.3	6.0	5.9	5.9	5.9	5.9	5.9
60°	13.4	10.1	8.3	7.4	6.6	6.0	5.9	5.9	5.9	5.9	5.9
57.5°	15.4	11.1	9.5	8.2	7.1	6.3	5.9	5.9	5.9	5.9	5.9
55°	16.1	12.1	10.6	9.3	7.8	6.7	6.1	5.9	5.9	5.9	5.9
52.5°	14.3	12.5	11.5	10.2	8.8	7.3	6.5	5.9	5.9	5.9	5.9
50°	11.2	11.7	11.8	10.8	9.6	8.2	7.0	6.3	5.9	5.9	6.0
47.5°	9.9	11.0	11.3	11.1	10.0	9.0	7.6	6.7	5.9	5.9	6.1
45°	10.2	10.6	11.0	10.8	10.4	9.4	8.2	7.0	6.2	6.0	6.2
42.5°	11.3	11.3	11.1	10.6	10.5	9.8	8.7	7.5	6.6	6.2	6.3
40°	13.6	12.9	11.9	11.7	10.7	10.1	9.0	7.9	6.9	6.4	6.5
37.5°	16.7	15.5	13.8	14.1	11.7	10.4	9.3	8.2	7.4	6.9	6.7
35°	23.0	18.9	17.9	17.7	14.8	10.9	9.5	8.4	7.9	7.3	6.9
32.5°	31.2	25.4	23.8	22.1	19.0	11.5	9.9	9.1	8.5	7.7	7.1
30°	40.0	36.9	30.6	26.9	23.8	15.3	10.9	10.0	9.0	8.1	7.4
27.5°	53.9	49.8	39.0	33.2	28.4	20.3	13.1	11.0	9.7	8.5	7.7
25°	72.6	64.2	51.2	40.3	33.2	32.2	15.9	12.2	10.4	9.0	8.0
22.5°	98.9	81.0	64.2	48.0	52.8	47.4	22.3	14.3	11.3	9.5	8.4
20°	129.4	100.0	84.5	80.5	77.1	64.1	33.5	16.7	12.3	10.0	8.7
17.5°	166.0	147.0	140.7	121.5	104.4	83.3	46.5	19.4	13.3	10.5	8.9
15°	270.1	230.2	202.9	167.3	133.8	104.6	60.7	22.2	14.3	11.0	9.1
12.5°	393.3	318.5	269.6	217.0	164.8	127.3	75.8	25.1	15.4	11.4	9.2
10°	521.1	410.3	339.6	269.2	197.0	151.0	91.3	28.3	16.7	11.8	9.3
7.5°	650.9	504.1	411.3	322.7	229.0	174.2	108.2	32.1	18.2	12.1	9.3
5°	768.7	585.4	470.0	365.7	257.4	195.9	124.7	35.8	19.7	12.5	9.4
2.5°	833.5	644.9	518.3	404.7	284.8	216.3	140.1	39.3	21.1	12.8	9.4
0°	890.4	700.3	563.3	440.5	310.6	235.0	153.5	42.5	22.4	13.0	9.4
-2.5°	890.7	691.5	561.5	451.4	323.4	242.1	159.4	51.9	28.2	16.2	10.5
-5°	882.0	678.3	557.0	458.4	333.6	247.2	162.9	60.7	33.6	19.2	11.6
-7.5°	842.6	652.4	545.6	460.0	340.9	250.1	164.4	68.6	38.7	22.0	12.5
-10°	789.9	617.9	524.8	445.6	337.9	249.3	164.0	75.5	43.1	24.4	13.3
-12.5°	729.3	581.6	504.6	429.8	331.3	245.3	161.0	80.9	46.9	26.3	14.0
-15°	661.1	544.3	485.9	413.4	322.4	239.7	156.8	84.8	50.1	28.0	14.4
-17.5°	588.1	506.7	469.5	396.9	311.6	232.6	151.6	87.5	52.4	29.4	15.0
-20°	549.4	482.0	454.3	381.0	298.7	224.2	145.6	88.7	53.8	30.3	15.9



REPORT NUMBER: P731324 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-5S-CV5

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	515.4	469.1	432.3	364.4	285.2	214.5	139.0	88.5	54.1	30.5	16.4
-25°	480.6	456.7	410.5	342.5	272.1	204.2	135.0	86.7	53.4	30.1	16.7
-27.5°	461.2	441.5	388.9	319.0	254.4	194.1	132.3	85.6	52.0	29.1	16.7
-30°	448.8	417.3	362.5	294.9	235.2	178.5	127.7	83.2	50.7	28.4	16.4
-32.5°	439.5	394.2	333.3	272.3	215.9	161.9	118.2	79.1	48.5	28.0	16.2
-35°	419.1	365.8	303.2	248.4	196.1	148.2	106.9	73.6	45.3	27.1	15.9
-37.5°	395.7	333.5	275.9	224.3	175.5	133.5	96.5	65.9	41.1	25.8	15.3
-40°	358.7	301.0	248.2	201.0	157.3	117.9	85.1	58.7	38.3	24.0	14.2
-42.5°	320.1	269.1	221.4	176.8	139.3	104.2	73.2	51.0	34.9	22.2	12.8
-45°	283.7	236.8	193.8	155.9	120.9	89.5	64.1	43.2	30.9	20.1	11.5
-47.5°	246.5	205.4	167.6	133.6	103.5	75.1	54.3	38.3	26.6	17.5	10.8
-50°	211.0	174.6	141.9	112.4	84.7	63.8	45.2	33.0	22.8	14.1	10.1
-52.5°	177.0	145.3	117.3	91.2	70.2	52.0	38.6	27.3	18.7	12.2	9.1
-55°	144.4	117.8	93.5	73.5	56.2	43.0	31.6	22.5	14.4	11.0	8.2
-57.5°	114.9	91.5	73.7	57.4	45.0	34.5	25.2	17.4	12.3	9.6	8.0
-60°	86.6	70.9	55.6	45.1	35.6	26.8	19.2	13.3	10.8	8.5	7.7
-62.5°	65.1	52.2	43.4	34.8	27.1	20.0	13.8	11.5	9.2	8.2	7.4
-65°	48.8	40.7	32.4	25.8	19.3	14.2	11.8	9.7	8.6	7.9	7.2
-67.5°	36.7	29.9	23.2	17.2	13.9	11.7	9.8	8.9	8.2	7.5	7.2
-70°	25.8	19.8	15.6	12.9	10.9	9.3	9.0	8.5	7.9	7.4	7.2
-72.5°	17.5	14.4	11.4	9.4	9.1	8.8	8.5	8.1	7.6	7.3	7.1
-75°	12.0	10.5	9.4	8.8	8.5	8.3	8.0	7.7	7.3	7.1	6.8
-77.5°	10.1	9.2	8.5	8.1	7.9	7.7	7.5	7.2	7.0	6.7	6.5
-80°	8.5	8.1	7.7	7.4	7.3	7.1	6.9	6.7	6.5	6.3	6.1
-82.5°	7.1	7.0	6.9	6.8	6.6	6.5	6.4	6.2	6.1	5.9	5.8
-85°	6.3	6.2	6.2	6.1	6.0	5.9	5.8	5.7	5.6	5.5	5.4
-87.5°	5.5	5.5	5.4	5.4	5.3	5.3	5.3	5.2	5.2	5.1	5.1
-90°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7



REPORT NUMBER: P731324 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-5S-CV5

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	4.7	4.7	4.7	4.7	4.7	4.7	4.7
87.5°	5.0	5.0	4.9	4.9	4.8	4.7	4.7
85°	5.3	5.2	5.1	5.0	4.9	4.8	4.7
82.5°	5.6	5.5	5.3	5.2	5.0	4.8	4.7
80°	5.9	5.7	5.5	5.3	5.1	4.8	4.7
77.5°	5.9	5.9	5.7	5.5	5.2	4.8	4.7
75°	5.9	5.9	5.9	5.6	5.3	4.8	4.7
72.5°	5.9	5.9	5.9	5.8	5.4	4.9	4.7
70°	5.9	5.9	5.9	5.9	5.5	4.9	4.7
67.5°	5.9	5.9	5.9	5.9	5.5	4.9	4.7
65°	5.9	5.9	5.9	5.9	5.6	4.9	4.7
62.5°	5.9	5.9	5.9	5.9	5.7	4.9	4.7
60°	5.9	5.9	5.9	5.9	5.7	5.0	4.7
57.5°	5.9	5.9	5.9	5.9	5.7	5.0	4.7
55°	5.9	5.9	5.9	5.9	5.7	5.0	4.7
52.5°	5.9	5.9	5.9	5.9	5.7	5.0	4.7
50°	5.9	5.9	5.9	5.9	5.7	5.0	4.7
47.5°	5.9	5.9	5.9	5.9	5.7	5.0	4.7
45°	6.0	5.9	5.9	5.9	5.7	5.0	4.7
42.5°	6.1	5.9	5.9	5.9	5.7	5.0	4.7
40°	6.3	5.9	5.9	5.9	5.7	5.0	4.7
37.5°	6.4	5.9	5.9	5.9	5.7	5.0	4.7
35°	6.6	6.0	5.9	5.9	5.7	5.0	4.7
32.5°	6.8	6.1	5.9	5.9	5.7	5.0	4.7
30°	6.9	6.2	5.9	5.9	5.7	5.0	4.7
27.5°	7.1	6.4	5.9	5.9	5.8	4.9	4.7
25°	7.4	6.5	5.9	5.9	5.8	4.9	4.7
22.5°	7.6	6.6	5.9	5.9	5.8	4.9	4.7
20°	7.8	6.7	5.9	5.9	5.8	4.9	4.7
17.5°	8.0	6.8	5.9	5.9	5.8	4.9	4.7
15°	8.0	6.9	5.9	5.9	5.8	4.9	4.7
12.5°	8.1	7.0	5.9	5.9	5.9	4.8	4.7
10°	8.2	7.0	5.9	5.9	5.9	4.8	4.7
7.5°	8.2	7.0	5.9	5.9	5.9	4.8	4.7
5°	8.3	7.1	5.9	5.9	5.9	4.8	4.7
2.5°	8.3	7.1	5.9	5.9	5.9	4.7	4.7
0°	8.3	7.1	5.9	5.9	5.9	4.7	4.7
-2.5°	8.4	7.2	6.0	5.9	5.9	4.7	4.7
-5°	8.6	7.3	6.1	5.9	5.9	4.8	4.7
-7.5°	8.7	7.4	6.2	5.9	5.9	4.8	4.7
-10°	8.8	7.5	6.3	5.9	5.9	4.8	4.7
-12.5°	8.9	7.6	6.4	5.9	5.9	4.8	4.7
-15°	8.9	7.7	6.4	5.9	5.8	4.9	4.7
-17.5°	9.0	7.7	6.5	5.9	5.8	4.9	4.7
-20°	9.3	7.8	6.5	5.9	5.8	4.9	4.7



REPORT NUMBER: P731324 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-5S-CV5

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	9.8	7.8	6.5	5.9	5.8	4.9	4.7
-25°	10.2	7.8	6.5	5.9	5.8	4.9	4.7
-27.5°	10.4	7.8	6.5	5.9	5.8	4.9	4.7
-30°	10.3	7.8	6.5	5.9	5.7	5.0	4.7
-32.5°	10.0	7.7	6.4	5.9	5.7	5.0	4.7
-35°	9.8	7.5	6.3	5.9	5.7	5.0	4.7
-37.5°	9.6	7.4	6.2	5.9	5.7	5.0	4.7
-40°	9.3	7.3	6.1	5.9	5.7	5.0	4.7
-42.5°	8.9	7.1	6.1	5.9	5.7	5.0	4.7
-45°	8.5	7.0	6.2	5.9	5.7	5.0	4.7
-47.5°	7.9	6.8	6.2	6.0	5.7	5.0	4.7
-50°	7.7	6.7	6.2	6.0	5.7	5.0	4.7
-52.5°	7.5	6.5	6.3	6.0	5.7	5.0	4.7
-55°	7.3	6.5	6.3	6.0	5.7	5.0	4.7
-57.5°	7.1	6.6	6.3	6.0	5.7	5.0	4.7
-60°	6.9	6.6	6.3	6.0	5.7	5.0	4.7
-62.5°	6.9	6.6	6.3	6.0	5.7	4.9	4.7
-65°	6.9	6.7	6.2	6.0	5.6	4.9	4.7
-67.5°	7.0	6.6	6.2	5.9	5.5	4.9	4.7
-70°	7.0	6.5	6.1	5.9	5.5	4.9	4.7
-72.5°	6.8	6.3	6.0	5.8	5.4	4.9	4.7
-75°	6.5	6.1	5.9	5.6	5.3	4.8	4.7
-77.5°	6.2	6.0	5.7	5.5	5.2	4.8	4.7
-80°	5.9	5.7	5.5	5.3	5.1	4.8	4.7
-82.5°	5.6	5.5	5.3	5.2	5.0	4.8	4.7
-85°	5.3	5.2	5.1	5.0	4.9	4.8	4.7
-87.5°	5.0	5.0	4.9	4.9	4.8	4.7	4.7
-90°	4.7	4.7	4.7	4.7	4.7	4.7	4.7

(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

