

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: P731464 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-40-70-4S-CV5**

Issue Date: 11/16/2023

Test Information

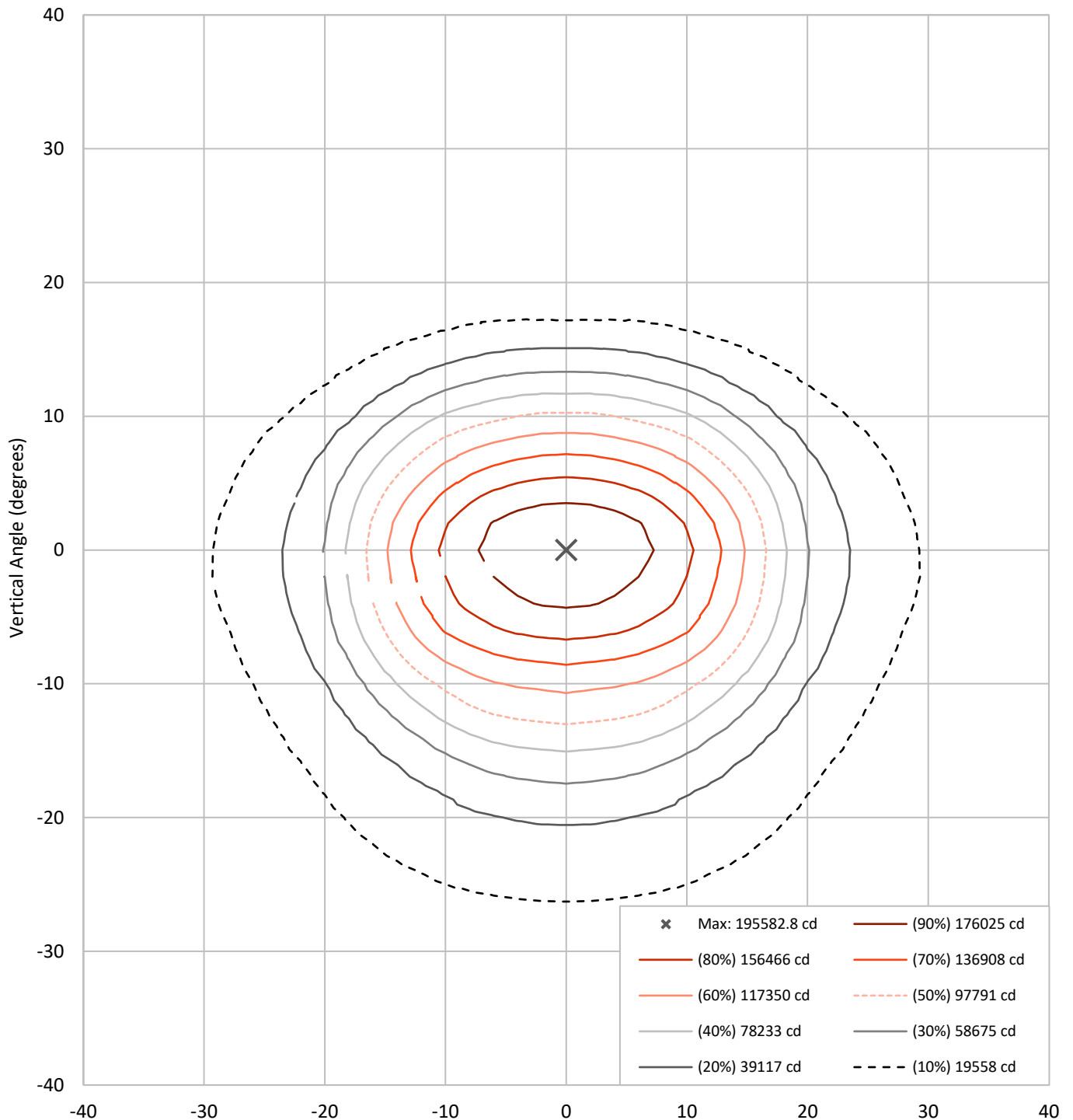
Test Method: LM-79-08
Report Number: P731464 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-23)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0530N-40-70-4S-CV5
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 4S BEAM SHAPE WITH 5 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 3V
Luminaire Lumens:	51630.4 lumens	Max Intensity:	195582.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	92.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	33.1°H x 23.4°V	Field Angle (10%):	58.5°H x 43.2°V
Beam Lumens:	26123.3 lumens	Field Lumens:	44526.7 lumens
Beam Efficiency:	50.6%	Field Efficiency:	86.2%
Input Watts (W):	559.9		
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





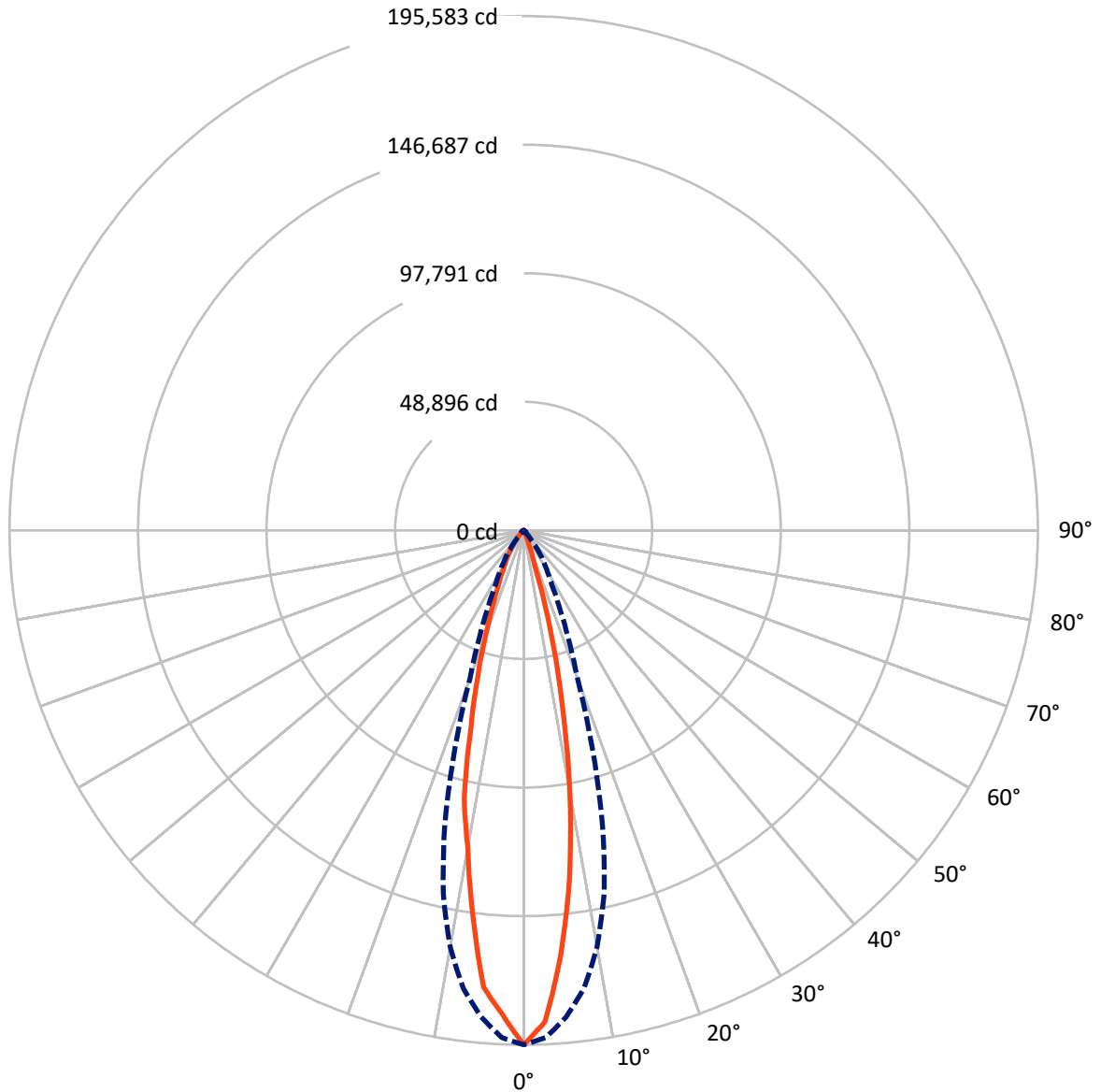
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Lumen Table

90	0.2		0.5		0.7		0.7		0.5		0.7		0.7		0.5		0.2	
80	0.2		0.5		0.7		0.7		0.5		0.7		0.7		0.5		0.2	
70	0.2	0.1	0.2	0.4	0.6	0.4	0.3	0.2	0.2	0.3	0.4	0.6	0.4	0.2	0.1	0.2		
60		0.1	0.3	0.8	0.7	0.3	0.2	0.2	0.2	0.2	0.3	0.7	0.8	0.3	0.1			
50	0.2	0.1	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.1	0.2		
40		0.2	0.5	0.8	1.1	2.2	4.0	5.9	5.9	4.0	2.2	1.1	0.8	0.5	0.2			
30	0.2	0.3	1.4	2.9	7.8	21.5	44.6	74.1	74.1	44.6	21.5	7.8	2.9	1.4	0.3	0.2		
20		0.9	4.4	11.7	69.7	217.7	663.3	1239.8	1239.8	663.3	217.7	69.7	11.7	4.4	0.9			
10	0.3	1.6	8.9	29.4	216.3	761.9	2637.9	4489.0	4489.0	2637.9	761.9	216.3	29.4	8.9	1.6	0.3		
0		2.2	11.1	35.3	241.0	840.7	2905.6	4769.7	4769.7	2905.6	840.7	241.0	35.3	11.1	2.2			
-10	0.4	2.4	9.8	24.8	142.8	463.4	1285.8	2259.8	2259.8	1285.8	463.4	142.8	24.8	9.8	2.4	0.4		
-20		2.3	8.2	16.6	59.7	231.6	477.3	695.1	695.1	477.3	231.6	59.7	16.6	8.2	2.3			
-30	0.4	1.9	6.9	12.9	24.2	72.1	163.7	232.4	232.4	163.7	72.1	24.2	12.9	6.9	1.9	0.4		
-40		1.2	5.0	10.6	17.3	25.8	37.3	48.9	48.9	37.3	25.8	17.3	10.6	5.0	1.2			
-50	0.2	0.6	2.6	6.8	12.2	17.0	20.9	23.4	23.4	20.9	17.0	12.2	6.8	2.6	0.6	0.2		
-60		0.3	0.9	2.5	5.1	8.2	11.0	12.7	12.7	11.0	8.2	5.1	2.5	0.9	0.3			
-70	0.2	0.6	2.6	6.8	12.2	17.0	20.9	23.4	23.4	20.9	17.0	12.2	6.8	2.6	0.6	0.2		
-80		0.3	0.9	2.5	5.1	8.2	11.0	12.7	12.7	11.0	8.2	5.1	2.5	0.9	0.3			
-90	0.2		0.7		2.5		6.3		9.0		6.3		2.5		0.7		0.2	

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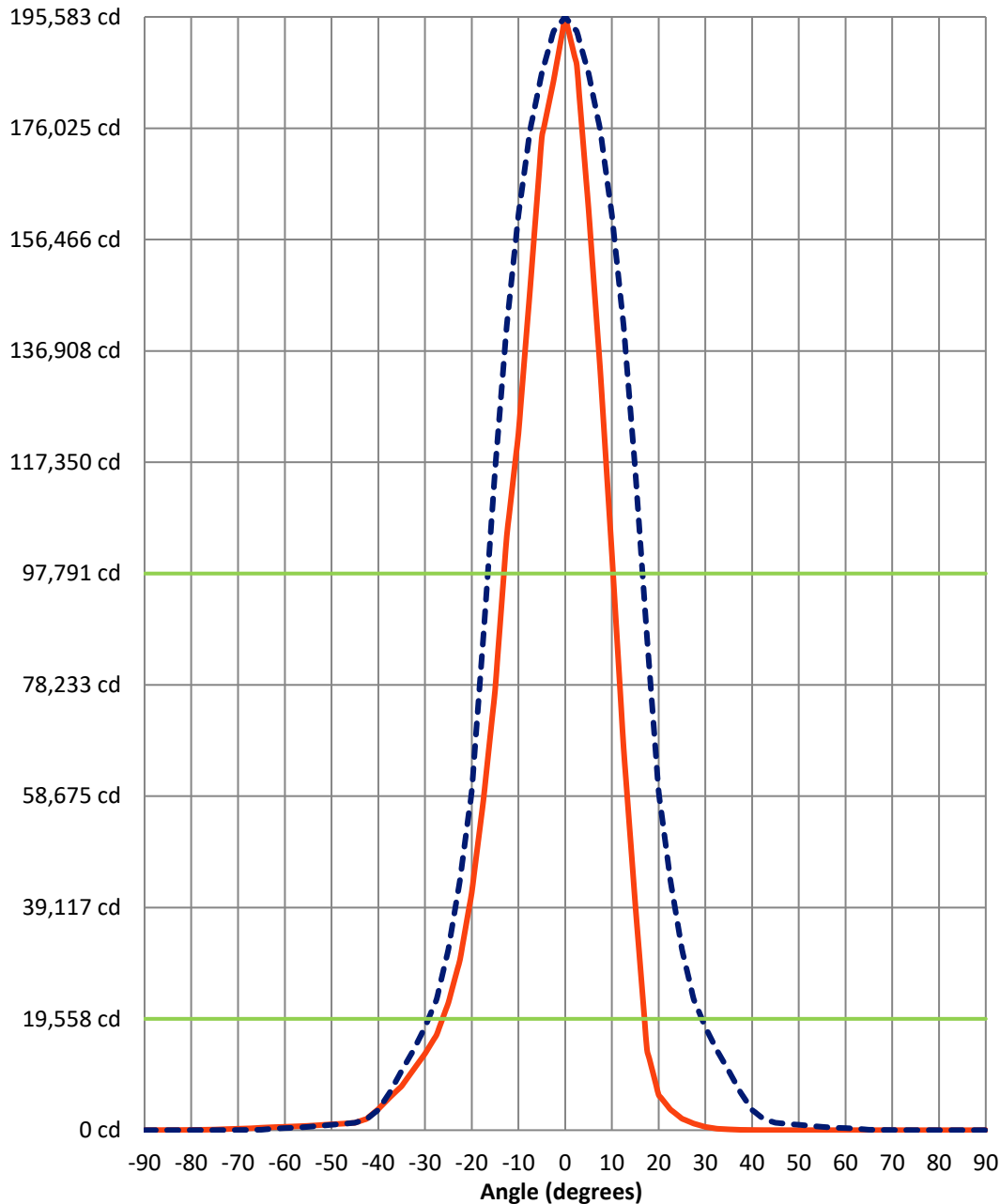
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 33.1°
 V Angle: 23.4°
 Lumens: 26123.3
 Efficiency: 50.6%

Field:
 H Angle: 58.5°
 V Angle: 43.2°
 Lumens: 44526.7
 Efficiency: 86.2%

Spill:
 Lumens: 7103.7
 Efficiency: 13.8%

— 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°	7.1	8.0	8.9	8.5	8.0	7.6	7.1	7.6	8.0	8.4	8.9
87.5°	7.1	7.2	7.3	7.3	7.4	7.5	7.6	7.5	7.4	7.3	7.1
85°	7.1	7.3	7.4	7.6	7.7	7.9	8.0	7.9	7.7	7.5	7.1
82.5°	7.1	7.3	7.6	7.8	8.0	8.3	8.5	8.3	8.0	7.8	7.6
80°	7.1	7.4	7.7	8.0	8.3	8.7	8.9	8.6	8.4	8.3	8.3
77.5°	7.1	7.5	7.9	8.3	8.7	8.9	8.9	8.7	8.7	8.8	8.9
75°	7.1	7.6	8.0	8.5	8.9	8.9	8.9	8.8	8.9	8.9	8.9
72.5°	7.1	7.6	8.2	8.7	8.9	8.9	8.9	8.9	8.9	8.9	8.9
70°	7.1	7.7	8.3	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
67.5°	7.1	7.8	8.5	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
65°	7.1	7.9	8.6	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
62.5°	7.1	7.9	8.8	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
60°	7.1	8.0	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
57.5°	7.1	8.1	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
55°	7.1	8.1	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
52.5°	7.1	8.2	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
50°	7.1	8.3	8.9	8.9	8.9	8.9	8.9	9.0	8.9	8.9	9.7
47.5°	7.1	8.3	8.9	8.9	8.9	8.9	8.9	9.1	8.9	8.9	10.5
45°	7.1	8.4	8.9	8.9	8.9	8.9	9.1	9.3	9.0	9.5	11.2
42.5°	7.1	8.4	8.9	8.9	8.9	8.9	9.2	9.4	9.1	10.0	11.6
40°	7.1	8.5	8.9	8.9	8.9	8.9	9.4	9.5	9.4	10.4	12.0
37.5°	7.1	8.5	8.9	8.9	8.9	8.9	9.7	9.6	9.9	11.0	12.4
35°	7.1	8.6	8.9	8.9	8.9	9.0	9.9	9.8	10.4	11.8	12.7
32.5°	7.1	8.6	8.9	8.9	8.9	9.2	10.1	9.9	10.9	12.8	14.0
30°	7.1	8.7	8.9	8.9	8.9	9.4	10.2	10.1	11.3	13.9	15.5
27.5°	7.1	8.7	8.9	8.9	8.9	9.6	10.3	10.4	12.0	15.2	17.2
25°	7.1	8.7	8.9	8.9	8.9	9.8	10.4	10.8	13.0	16.6	19.2
22.5°	7.1	8.8	8.9	8.9	8.9	10.0	10.5	11.2	14.0	18.2	23.0
20°	7.1	8.8	8.9	8.9	8.9	10.1	10.7	11.5	15.1	19.8	26.9
17.5°	7.1	8.8	8.9	8.9	8.9	10.3	10.8	11.8	16.2	21.5	31.1
15°	7.1	8.8	8.9	8.9	8.9	10.4	11.0	12.4	17.4	23.3	35.4
12.5°	7.1	8.9	8.9	8.9	8.9	10.5	11.2	13.2	19.0	25.0	39.8
10°	7.1	8.9	8.9	8.9	8.9	10.6	11.5	14.1	21.1	28.7	45.4
7.5°	7.1	8.9	8.9	8.9	8.9	10.6	11.7	15.1	23.1	32.7	54.0
5°	7.1	8.9	8.9	8.9	8.9	10.7	12.0	16.0	25.0	36.8	62.5
2.5°	7.1	8.9	8.9	8.9	8.9	10.7	12.2	16.9	26.9	40.8	70.7
0°	7.1	8.9	8.9	8.9	8.9	10.7	12.2	16.9	26.9	40.8	70.7
-2.5°	7.1	8.9	8.9	8.9	8.9	10.9	13.7	20.3	33.7	54.0	92.7
-5°	7.1	8.9	8.9	8.9	8.9	11.1	14.8	22.7	38.5	62.9	105.9
-7.5°	7.1	8.9	8.9	8.9	8.9	11.2	15.8	24.9	42.9	71.1	117.9
-10°	7.1	8.9	8.9	8.9	8.9	11.3	16.7	26.8	46.7	78.4	128.5
-12.5°	7.1	8.9	8.9	8.9	8.9	11.4	17.5	28.5	49.9	84.6	137.8
-15°	7.1	8.8	8.9	8.9	8.9	11.4	18.0	29.9	53.0	90.6	145.5
-17.5°	7.1	8.8	8.9	8.9	8.9	11.3	18.3	31.3	55.8	95.1	151.3
-20°	7.1	8.8	8.9	8.9	8.9	11.2	18.6	32.7	57.6	98.1	154.9



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 CATALOG NUMBER: EPH-LS-08-0530N-40-70-4S-CV5

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	7.1	8.8	8.9	8.9	8.9	11.1	19.1	33.6	58.3	99.4	156.3
-25°	7.1	8.8	8.9	8.9	8.9	11.1	19.1	34.1	57.6	98.9	155.2
-27.5°	7.1	8.7	8.9	8.9	8.9	11.1	18.8	34.0	55.7	97.2	154.3
-30°	7.1	8.7	8.9	8.9	8.9	10.9	18.2	33.4	54.5	94.9	151.0
-32.5°	7.1	8.7	8.9	8.9	9.0	10.6	17.1	32.6	53.7	90.7	145.1
-35°	7.1	8.7	8.9	8.9	9.2	10.2	16.5	31.3	52.1	84.7	136.6
-37.5°	7.1	8.6	8.9	8.9	9.3	9.9	15.9	29.4	49.7	76.6	123.1
-40°	7.1	8.6	8.9	8.9	9.4	10.0	15.1	26.9	46.6	71.5	109.5
-42.5°	7.1	8.6	8.9	8.9	9.5	10.2	14.1	23.8	43.0	65.6	95.0
-45°	7.1	8.6	8.9	9.0	9.6	10.3	12.9	21.0	38.7	58.7	80.6
-47.5°	7.1	8.5	8.9	9.0	9.6	10.4	11.4	19.2	33.6	51.2	72.1
-50°	7.1	8.5	8.9	9.0	9.7	10.6	11.3	17.1	27.1	43.8	62.7
-52.5°	7.1	8.5	8.9	9.0	9.7	10.7	11.4	14.7	22.8	35.9	52.7
-55°	7.1	8.4	8.9	9.0	9.6	10.7	11.6	12.3	19.5	27.6	43.3
-57.5°	7.1	8.4	8.9	9.0	9.6	10.6	11.7	12.5	16.1	22.8	33.3
-60°	7.1	8.4	8.9	9.0	9.6	10.5	11.8	12.5	13.3	19.0	24.9
-62.5°	7.1	8.4	8.9	9.0	9.5	10.3	11.5	12.5	13.2	15.2	20.8
-65°	7.1	8.3	8.9	9.0	9.4	10.2	11.3	12.4	12.9	14.0	16.6
-67.5°	7.1	8.3	8.9	9.0	9.3	10.0	10.9	11.9	12.5	13.3	14.7
-70°	7.1	8.3	8.9	8.9	9.2	9.8	10.6	11.4	11.9	12.5	13.5
-72.5°	7.1	8.2	8.9	8.9	9.1	9.5	10.2	10.8	11.4	11.9	12.4
-75°	7.1	8.2	8.9	8.8	8.9	9.3	9.8	10.3	10.8	11.2	11.6
-77.5°	7.1	8.2	8.9	8.8	8.8	9.0	9.4	9.8	10.2	10.5	10.9
-80°	7.1	8.1	8.9	8.7	8.6	8.7	9.0	9.3	9.6	9.8	10.1
-82.5°	7.1	8.1	8.9	8.6	8.5	8.4	8.5	8.8	8.9	9.2	9.4
-85°	7.1	8.1	8.9	8.6	8.3	8.1	8.0	8.4	8.6	8.8	8.9
-87.5°	7.1	8.0	8.9	8.5	8.2	7.8	7.6	8.0	8.3	8.6	8.9
-90°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1



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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°	8.5	8.0	7.6	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
87.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	6.7	6.3	5.8
85°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	6.9	6.7	6.6
82.5°	7.6	7.6	7.4	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
80°	8.3	8.1	7.6	7.2	7.1	7.1	7.1	7.1	7.1	7.1	7.1
77.5°	8.6	8.1	7.7	7.2	7.1	7.1	7.1	7.1	7.1	7.1	7.1
75°	8.6	8.2	7.7	7.3	7.1	7.1	7.2	7.5	7.7	7.7	7.6
72.5°	8.6	8.2	7.8	7.3	7.5	7.9	8.3	8.7	9.1	9.4	9.7
70°	8.7	8.3	8.1	8.2	8.6	9.1	9.9	10.9	11.8	12.5	13.6
67.5°	8.8	8.6	8.6	9.0	9.6	10.5	11.6	14.0	16.4	17.8	19.3
65°	8.9	8.8	9.1	9.7	10.6	12.9	15.5	18.3	22.7	25.3	26.4
62.5°	8.9	9.0	9.5	10.8	13.4	16.1	19.8	24.6	30.6	34.7	34.9
60°	8.9	9.1	10.6	13.2	16.0	19.5	24.3	31.0	39.7	46.3	42.2
57.5°	8.9	10.0	12.5	15.2	18.3	22.2	28.5	37.1	45.4	54.2	46.5
55°	9.4	11.4	13.9	16.6	20.1	24.5	31.1	38.2	47.3	49.9	41.2
52.5°	10.6	12.6	14.7	17.7	21.7	25.5	29.6	35.9	38.7	39.3	32.7
50°	11.6	13.2	15.2	18.5	22.3	25.0	25.9	29.5	29.8	27.0	23.5
47.5°	12.3	13.8	15.4	18.9	22.3	23.9	23.5	22.6	20.8	19.2	14.9
45°	12.8	14.3	15.8	19.3	22.1	22.7	20.6	16.4	17.1	15.2	14.1
42.5°	13.2	14.8	17.2	19.8	21.7	21.5	18.6	17.3	16.1	15.7	15.3
40°	13.6	15.3	18.8	21.2	21.7	21.1	21.2	20.2	17.4	18.5	18.7
37.5°	14.0	17.0	21.2	24.8	22.4	23.6	25.3	25.6	24.2	23.6	26.0
35°	14.4	18.9	26.0	29.9	27.7	28.6	31.9	33.4	33.7	33.6	35.4
32.5°	15.6	20.9	32.3	36.2	37.3	37.8	40.2	43.6	47.5	49.2	47.1
30°	18.1	26.7	39.5	43.7	48.3	55.0	53.5	56.1	64.9	68.5	71.8
27.5°	22.2	34.3	46.8	53.9	62.2	77.3	82.7	77.3	84.7	91.8	102.6
25°	26.8	53.6	54.9	65.5	84.1	106.9	121.5	127.8	111.1	123.5	152.3
22.5°	37.2	78.8	83.9	77.8	109.4	143.1	171.9	187.3	185.3	173.3	212.0
20°	55.6	104.3	117.8	120.3	144.3	184.7	229.5	255.6	280.4	323.6	436.9
17.5°	77.1	132.5	153.7	175.3	219.0	254.8	293.1	332.0	390.8	519.1	903.7
15°	101.0	162.9	191.3	235.1	300.2	360.1	406.8	441.7	545.5	814.5	1494.5
12.5°	126.5	194.9	230.1	298.4	385.7	470.8	537.1	607.3	781.9	1310.9	2434.0
10°	152.7	227.9	269.6	363.9	474.1	585.0	671.0	776.7	1049.6	1872.8	3459.3
7.5°	181.8	263.1	309.9	430.0	563.5	700.8	806.7	947.4	1322.7	2440.7	4491.1
5°	210.0	300.0	352.8	487.1	638.8	802.5	933.4	1116.2	1593.0	2991.2	5493.6
2.5°	236.0	335.7	394.8	539.3	702.1	879.8	1019.8	1217.1	1780.1	3352.8	6231.7
0°	258.8	369.4	435.5	587.1	760.3	951.2	1101.1	1309.9	1931.0	3571.1	6672.8
-2.5°	267.5	382.4	452.2	599.2	768.4	963.4	1116.1	1318.0	1977.3	3659.6	6737.8
-5°	272.4	392.4	466.8	607.2	771.2	968.1	1124.9	1317.9	1965.7	3582.9	6421.0
-7.5°	274.0	399.1	479.2	608.2	756.6	937.0	1080.9	1248.7	1810.8	3266.2	5738.2
-10°	272.4	398.1	475.5	585.8	718.8	882.3	1021.9	1173.1	1632.2	2868.8	4978.8
-12.5°	267.4	390.8	468.3	562.1	679.7	823.7	960.1	1092.6	1433.8	2395.8	4196.8
-15°	260.7	382.2	460.9	538.0	640.3	762.1	896.2	1008.0	1227.3	1891.2	3420.5
-17.5°	252.8	372.6	453.4	514.3	601.7	698.4	833.7	937.5	1075.1	1569.5	2795.9
-20°	244.0	362.5	446.4	491.8	565.8	649.9	773.7	879.1	995.4	1315.8	2126.0



REPORT NUMBER: P731464 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-4S-CV5

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	234.8	352.2	436.2	479.3	542.2	616.6	713.2	817.2	914.5	1035.8	1557.4
-25°	230.2	337.0	421.1	470.8	520.2	584.2	654.8	752.3	839.2	955.9	1256.8
-27.5°	228.0	322.7	403.2	461.2	498.7	554.7	613.1	688.5	787.9	891.0	1000.1
-30°	222.7	301.6	384.8	447.9	485.0	530.6	579.5	643.5	738.5	833.7	930.1
-32.5°	209.6	279.0	361.1	426.6	472.5	508.0	555.5	614.1	690.5	777.9	864.4
-35°	192.7	259.3	334.2	405.4	458.2	492.6	535.8	586.2	645.9	724.3	816.8
-37.5°	175.8	237.4	306.3	379.9	435.1	480.5	515.0	560.8	612.6	674.7	765.7
-40°	157.0	213.4	279.3	348.4	413.0	462.8	501.2	535.9	580.7	641.7	706.8
-42.5°	136.7	190.5	250.8	315.5	379.9	436.9	485.5	518.2	556.3	609.1	668.5
-45°	119.6	165.4	220.6	280.2	340.8	403.6	455.4	502.9	537.6	577.7	630.6
-47.5°	101.4	140.3	190.5	242.6	299.7	358.6	419.1	469.5	518.4	555.0	592.4
-50°	84.5	119.3	157.8	206.2	256.6	311.4	367.8	427.5	478.9	526.2	567.0
-52.5°	73.0	97.2	131.3	169.5	214.8	262.3	315.2	370.0	426.5	480.3	522.7
-55°	60.6	81.1	105.2	137.6	174.1	215.9	261.3	311.7	361.6	414.3	462.7
-57.5°	48.7	66.3	85.0	107.7	138.4	171.2	211.3	253.2	298.9	344.0	382.4
-60°	36.8	52.0	68.7	85.7	104.5	133.1	162.3	197.6	236.4	273.9	307.7
-62.5°	25.9	38.5	53.0	68.1	83.4	98.2	121.6	148.0	174.5	206.2	235.7
-65°	21.6	26.8	37.5	50.9	64.6	78.4	91.8	104.8	126.8	149.1	169.9
-67.5°	17.1	21.8	26.7	33.4	45.5	57.7	70.5	82.5	94.1	105.3	118.3
-70°	15.2	17.1	20.9	25.4	30.0	36.1	46.9	58.0	69.5	81.0	91.0
-72.5°	13.7	15.5	17.3	19.1	22.8	26.6	30.4	34.1	41.2	51.1	61.2
-75°	12.5	13.9	15.6	17.2	18.7	20.3	22.3	25.6	28.8	32.2	35.6
-77.5°	11.4	12.3	13.6	15.1	16.5	17.7	19.0	20.4	22.0	23.6	25.4
-80°	10.4	10.7	11.3	12.2	13.4	14.5	15.7	16.8	17.8	19.0	20.2
-82.5°	9.6	9.8	10.0	10.2	10.7	11.4	12.1	13.1	13.7	14.3	15.0
-85°	8.9	8.9	9.0	9.2	9.4	9.7	10.0	10.4	10.6	10.8	11.0
-87.5°	8.7	8.5	8.3	8.1	8.2	8.3	8.3	8.4	8.4	8.5	8.5
-90°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	6.7	6.3	5.8



REPORT NUMBER: P731464 (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°	7.1	8.0	8.9	9.8	10.7	11.6	12.5	13.4	14.3	15.2	16.1
87.5°	5.4	5.4	5.4	5.4	5.4	5.0	4.5	4.1	3.6	3.2	2.7
85°	6.5	6.3	6.0	5.7	5.4	5.0	4.5	4.1	3.6	3.2	2.7
82.5°	7.1	6.7	6.3	5.9	5.4	5.0	4.5	4.1	3.6	3.2	2.7
80°	7.1	6.7	6.3	5.9	5.5	5.0	4.6	4.1	3.6	3.2	2.7
77.5°	7.1	6.8	6.4	5.9	5.5	5.0	4.6	4.1	3.7	3.6	3.5
75°	7.3	7.0	6.9	6.7	6.3	6.0	5.7	5.4	5.1	4.8	4.5
72.5°	9.9	9.8	9.5	9.3	8.8	8.3	8.0	7.5	6.9	6.5	6.1
70°	14.6	15.2	14.7	13.7	12.2	10.9	10.2	9.5	8.7	8.0	7.2
67.5°	20.3	20.3	18.9	17.0	14.5	12.2	11.2	10.3	9.3	8.8	8.7
65°	26.3	24.6	22.1	19.1	15.7	12.3	11.4	10.4	9.4	8.9	8.9
62.5°	33.0	27.5	22.2	18.3	15.1	12.3	11.0	9.7	8.5	7.6	7.4
60°	35.4	26.3	19.0	15.8	13.1	11.0	9.6	8.5	7.7	7.1	7.1
57.5°	34.3	23.5	15.3	12.7	10.7	9.3	8.4	7.5	6.7	6.0	5.8
55°	29.3	19.2	11.5	9.8	8.8	7.8	6.9	6.4	5.9	5.4	5.4
52.5°	21.5	14.7	10.3	8.6	8.1	7.6	7.0	6.9	6.7	6.5	6.3
50°	15.8	11.4	9.8	8.8	8.4	8.4	8.7	8.6	8.5	8.3	8.0
47.5°	12.8	11.1	10.0	9.0	9.2	10.1	10.4	10.5	10.3	10.1	9.9
45°	12.4	11.4	10.9	11.5	12.0	12.5	12.5	12.3	12.8	13.0	12.8
42.5°	13.7	13.8	14.8	15.7	15.2	16.2	17.2	17.1	18.0	18.6	18.6
40°	19.2	18.7	21.5	22.4	22.7	23.8	26.8	26.5	27.9	31.6	32.3
37.5°	27.6	29.1	31.0	32.7	37.4	40.5	46.5	51.2	53.7	61.0	66.5
35°	38.9	42.8	43.8	53.3	63.0	72.2	80.5	90.6	94.9	110.8	121.9
32.5°	55.1	63.1	73.9	89.6	108.1	130.0	129.0	162.5	174.7	207.3	244.8
30°	77.1	99.5	135.1	159.8	205.3	240.9	258.9	311.2	381.4	448.5	539.8
27.5°	125.3	172.5	237.0	322.0	366.4	420.1	501.5	564.0	724.2	877.2	989.6
25°	215.5	314.5	436.2	561.8	640.5	711.0	859.7	968.8	1196.0	1366.5	1609.8
22.5°	412.0	623.7	777.7	871.0	1039.7	1260.4	1367.6	1667.6	2004.5	2434.4	2789.8
20°	694.2	1027.3	1370.6	1580.3	1773.0	2260.2	2473.7	3035.7	3751.7	4560.9	5235.4
17.5°	1358.6	1662.8	2361.7	3042.6	3554.9	4035.9	5386.1	6350.7	8222.6	10513.8	11570.5
15°	2437.8	3288.2	4103.7	5338.9	6646.0	8100.3	10219.1	13877.2	18471.7	23481.7	28900.6
12.5°	3952.1	5504.4	6963.2	8518.0	10389.4	13962.8	18793.7	25182.6	33438.0	42295.3	52522.4
10°	5653.3	8015.8	10146.5	12493.9	15816.7	21125.4	28285.8	38141.7	52843.3	67871.2	80906.4
7.5°	7176.8	10038.0	12928.2	16325.8	21592.8	29174.9	39476.6	54865.2	74064.1	92661.2	108518.2
5°	8636.7	11979.2	15273.4	19323.1	25961.1	35856.5	49188.7	70300.2	94571.1	115206.0	132584.5
2.5°	9774.2	13498.1	17268.0	22030.8	29604.0	40862.9	56005.7	81558.3	110852.1	133737.2	153608.5
0°	10425.9	13997.0	18089.2	23023.7	31738.1	44002.2	59532.2	86740.9	115914.5	141346.5	160766.1
-2.5°	10298.3	14040.3	18223.8	23215.8	31475.8	43250.4	58559.5	84514.6	113551.3	136478.1	155295.3
-5°	9648.2	13071.8	16760.2	21139.8	28428.2	39157.2	54188.6	78579.4	105527.1	128459.3	147584.2
-7.5°	8634.3	11661.8	14872.7	18684.7	24848.7	34184.4	47104.9	66096.2	89972.0	110741.4	125075.7
-10°	7527.8	10191.7	13089.3	16539.0	21400.7	28719.4	38509.1	52227.9	71755.4	89061.9	102358.2
-12.5°	6478.7	8900.5	11421.1	14301.7	17981.4	23745.9	31186.3	41428.6	54016.3	68242.6	81823.9
-15°	5472.6	7599.3	9798.9	12465.3	15665.5	19576.4	24578.4	31469.5	39739.5	49063.7	59122.1
-17.5°	4514.8	6382.2	8451.7	10779.9	13424.4	16412.4	20607.3	25332.7	30582.9	36658.3	42418.3
-20°	3542.0	5267.4	7145.3	9218.0	11590.6	14314.6	17299.5	20849.0	24647.4	28798.3	33107.2



REPORT NUMBER: P731464 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-4S-CV5

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	2703.3	4173.6	5816.6	7703.6	9931.2	12332.2	14647.6	16977.4	19787.5	22525.1	25274.6
-25°	1893.0	3059.0	4593.1	6396.9	8288.3	10295.1	12013.5	13655.7	15607.2	17362.3	19190.0
-27.5°	1392.3	2193.3	3462.0	5061.8	6758.1	8134.6	9581.3	10928.4	12341.5	13455.4	14742.7
-30°	1061.7	1522.9	2465.6	3713.6	5074.5	6273.9	7390.5	8610.3	9772.2	10739.2	11548.6
-32.5°	968.3	1144.1	1621.3	2490.5	3474.3	4538.6	5504.6	6566.4	7541.0	8345.4	8989.7
-35°	910.0	1005.3	1144.4	1583.3	2160.1	3000.3	3806.4	4676.0	5483.9	6147.4	6680.9
-37.5°	860.2	943.9	1025.9	1108.4	1426.2	1780.6	2362.3	2991.7	3537.5	4144.2	4617.9
-40°	798.5	892.3	958.7	1026.5	1102.9	1191.5	1498.5	1774.1	2082.7	2511.1	2865.7
-42.5°	730.7	810.0	892.6	959.0	1017.8	1080.4	1150.0	1218.9	1360.8	1540.8	1687.4
-45°	686.3	738.5	798.5	873.8	942.6	994.7	1046.4	1096.5	1143.9	1186.5	1222.2
-47.5°	638.3	682.6	731.3	783.1	834.0	891.9	946.3	991.7	1027.7	1062.0	1092.7
-50°	595.6	628.4	669.5	709.7	749.8	791.0	831.6	866.6	901.4	932.6	963.2
-52.5°	561.1	588.7	615.7	642.7	675.3	707.0	737.1	764.1	788.7	810.1	832.6
-55°	503.0	537.8	572.3	596.3	616.9	636.8	656.6	678.9	698.5	715.3	731.1
-57.5°	424.1	466.2	504.6	532.8	559.5	584.5	601.9	614.8	627.2	639.0	649.7
-60°	340.4	372.0	408.7	444.9	478.1	508.3	527.8	544.4	558.4	570.2	580.5
-62.5°	263.1	290.1	320.2	349.3	376.1	402.6	428.5	451.1	470.4	486.7	500.2
-65°	191.6	215.2	240.8	265.5	289.2	312.5	333.9	353.4	371.0	386.8	401.4
-67.5°	136.4	153.7	172.3	189.0	207.9	228.3	248.5	266.5	282.6	295.3	304.8
-70°	100.4	110.2	122.4	136.7	152.3	167.0	181.5	195.4	208.7	220.1	230.4
-72.5°	71.3	81.5	91.2	100.3	109.9	119.5	129.4	139.7	150.2	158.9	166.5
-75°	39.0	44.1	52.3	60.3	68.1	75.5	82.1	87.8	92.8	97.0	100.5
-77.5°	27.8	31.1	34.5	37.8	41.0	44.9	49.0	53.1	57.2	60.4	63.4
-80°	21.5	23.3	25.3	27.4	29.7	32.3	35.1	37.9	40.7	42.6	44.5
-82.5°	15.7	17.1	18.5	19.8	21.1	22.8	24.5	26.2	27.8	28.9	30.0
-85°	11.2	12.1	13.1	14.1	15.1	16.6	18.1	19.5	21.0	22.0	23.0
-87.5°	8.6	9.1	9.7	10.2	10.7	12.0	13.3	14.7	16.0	16.5	16.9
-90°	5.4	5.4	5.4	5.4	5.4	5.0	4.5	4.1	3.6	3.2	2.7



REPORT NUMBER: P731464 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-4S-CV5

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	16.9	17.8	17.8	17.8	17.8	17.8	16.9	16.1	15.2	14.3	13.4
87.5°	2.3	1.8	1.8	1.8	1.8	1.8	2.3	2.7	3.2	3.6	4.1
85°	2.3	1.8	1.8	1.8	1.8	1.8	2.3	2.7	3.2	3.6	4.1
82.5°	2.3	1.8	1.8	1.8	1.8	1.8	2.3	2.7	3.2	3.6	4.1
80°	2.3	1.8	1.8	1.8	1.8	1.8	2.3	2.7	3.2	3.6	4.1
77.5°	3.5	3.6	2.7	1.8	2.7	3.6	3.5	3.5	3.6	3.7	4.1
75°	4.1	3.6	2.7	1.8	2.7	3.6	4.1	4.5	4.8	5.1	5.4
72.5°	5.8	5.4	5.4	5.4	5.4	5.4	5.8	6.1	6.5	6.9	7.5
70°	6.4	5.5	5.4	5.4	5.4	5.5	6.4	7.2	8.0	8.7	9.5
67.5°	8.7	8.8	8.9	8.9	8.9	8.8	8.7	8.7	8.8	9.3	10.3
65°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	9.4	10.4
62.5°	7.3	7.2	7.1	7.1	7.1	7.2	7.3	7.4	7.6	8.5	9.7
60°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.7	8.5
57.5°	5.6	5.5	5.4	5.4	5.4	5.5	5.6	5.8	6.0	6.7	7.5
55°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.9	6.4
52.5°	6.0	5.6	5.4	5.4	5.4	5.6	6.0	6.3	6.5	6.7	6.9
50°	7.7	7.2	7.1	7.1	7.1	7.2	7.7	8.0	8.3	8.5	8.6
47.5°	9.5	9.1	8.9	8.9	8.9	9.1	9.5	9.9	10.1	10.3	10.5
45°	12.2	11.3	10.7	10.7	10.7	11.3	12.2	12.8	13.0	12.8	12.3
42.5°	18.5	18.0	17.6	17.8	17.6	18.0	18.5	18.6	18.6	18.0	17.1
40°	33.9	34.8	35.2	35.7	35.2	34.8	33.9	32.3	31.6	27.9	26.5
37.5°	69.6	68.2	65.1	66.0	65.1	68.2	69.6	66.5	61.0	53.7	51.2
35°	129.1	136.9	142.4	146.3	142.4	136.9	129.1	121.9	110.8	94.9	90.6
32.5°	258.6	269.3	266.2	260.6	266.2	269.3	258.6	244.8	207.3	174.7	162.5
30°	593.6	624.7	616.4	580.0	616.4	624.7	593.6	539.8	448.5	381.4	311.2
27.5°	1070.3	1145.2	1194.0	1168.9	1194.0	1145.2	1070.3	989.6	877.2	724.2	564.0
25°	1819.7	1965.1	2069.2	2025.6	2069.2	1965.1	1819.7	1609.8	1366.5	1196.0	968.8
22.5°	3235.4	3474.2	3616.0	3653.2	3616.0	3474.2	3235.4	2789.8	2434.4	2004.5	1667.6
20°	6083.8	6274.2	6312.0	6217.7	6312.0	6274.2	6083.8	5235.4	4560.9	3751.7	3035.7
17.5°	14638.5	15517.7	14873.2	14196.8	14873.2	15517.7	14638.5	11570.5	10513.8	8222.6	6350.7
15°	33486.2	37199.1	39314.2	39745.8	39314.2	37199.1	33486.2	28900.6	23481.7	18471.7	13877.2
12.5°	59004.6	64988.1	67457.4	67226.7	67457.4	64988.1	59004.6	52522.4	42295.3	33438.0	25182.6
10°	89268.0	95665.1	101169.3	101225.0	101169.3	95665.1	89268.0	80906.4	67871.2	52843.3	38141.7
7.5°	119524.5	126902.0	132080.2	133557.5	132080.2	126902.0	119524.5	108518.2	92661.2	74064.1	54865.2
5°	146012.1	155145.9	160286.7	161856.6	160286.7	155145.9	146012.1	132584.5	115206.0	94571.1	70300.2
2.5°	169299.9	180489.2	186127.5	187004.0	186127.5	180489.2	169299.9	153608.5	133737.2	110852.1	81558.3
0°	175707.2	185681.6	192983.5	195582.8	192983.5	185681.6	175707.2	160766.1	141346.5	115914.5	86740.9
-2.5°	169390.5	178117.0	182469.0	184284.2	182469.0	178117.0	169390.5	155295.3	136478.1	113551.3	84514.6
-5°	159405.9	167549.7	173092.3	174375.8	173092.3	167549.7	159405.9	147584.2	128459.3	105527.1	78579.4
-7.5°	134530.0	142545.8	145036.2	147859.5	145036.2	142545.8	134530.0	125075.7	110741.4	89972.0	66096.2
-10°	112402.4	118638.2	120353.2	122353.5	120353.2	118638.2	112402.4	102358.2	89061.9	71755.4	52227.9
-12.5°	93003.4	99180.0	101976.3	104369.6	101976.3	99180.0	93003.4	81823.9	68242.6	54016.3	41428.6
-15°	68137.6	73942.9	75948.3	77243.0	75948.3	73942.9	68137.6	59122.1	49063.7	39739.5	31469.5
-17.5°	49357.7	53779.0	56406.4	57929.6	56406.4	53779.0	49357.7	42418.3	36658.3	30582.9	25332.7
-20°	36894.7	39428.4	41463.7	41687.5	41463.7	39428.4	36894.7	33107.2	28798.3	24647.4	20849.0



REPORT NUMBER: P731464 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-4S-CV5

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	27578.1	29087.3	30024.3	29967.8	30024.3	29087.3	27578.1	25274.6	22525.1	19787.5	16977.4
-25°	20583.9	21598.5	22243.8	22359.8	22243.8	21598.5	20583.9	19190.0	17362.3	15607.2	13655.7
-27.5°	15664.3	16378.7	16748.8	16768.5	16748.8	16378.7	15664.3	14742.7	13455.4	12341.5	10928.4
-30°	12136.0	12730.9	13125.6	13427.7	13125.6	12730.9	12136.0	11548.6	10739.2	9772.2	8610.3
-32.5°	9531.2	10039.0	10383.3	10588.3	10383.3	10039.0	9531.2	8989.7	8345.4	7541.0	6566.4
-35°	7145.5	7552.2	7795.6	7734.7	7795.6	7552.2	7145.5	6680.9	6147.4	5483.9	4676.0
-37.5°	5035.1	5379.9	5625.2	5780.5	5625.2	5379.9	5035.1	4617.9	4144.2	3537.5	2991.7
-40°	3172.6	3411.1	3580.8	3688.9	3580.8	3411.1	3172.6	2865.7	2511.1	2082.7	1774.1
-42.5°	1806.9	1896.0	1956.1	1988.1	1956.1	1896.0	1806.9	1687.4	1540.8	1360.8	1218.9
-45°	1249.7	1271.9	1288.0	1297.4	1288.0	1271.9	1249.7	1222.2	1186.5	1143.9	1096.5
-47.5°	1116.8	1135.0	1146.8	1152.9	1146.8	1135.0	1116.8	1092.7	1062.0	1027.7	991.7
-50°	990.7	1013.1	1026.6	1031.5	1026.6	1013.1	990.7	963.2	932.6	901.4	866.6
-52.5°	853.6	871.8	884.0	890.5	884.0	871.8	853.6	832.6	810.1	788.7	764.1
-55°	744.9	756.4	762.4	763.8	762.4	756.4	744.9	731.1	715.3	698.5	678.9
-57.5°	658.8	666.2	672.2	676.4	672.2	666.2	658.8	649.7	639.0	627.2	614.8
-60°	588.9	595.3	598.7	599.6	598.7	595.3	588.9	580.5	570.2	558.4	544.4
-62.5°	510.6	518.3	524.2	528.3	524.2	518.3	510.6	500.2	486.7	470.4	451.1
-65°	414.6	426.2	432.4	435.5	432.4	426.2	414.6	401.4	386.8	371.0	353.4
-67.5°	312.4	318.3	319.8	319.5	319.8	318.3	312.4	304.8	295.3	282.6	266.5
-70°	239.9	248.7	251.9	253.4	251.9	248.7	239.9	230.4	220.1	208.7	195.4
-72.5°	173.5	179.6	183.2	185.6	183.2	179.6	173.5	166.5	158.9	150.2	139.7
-75°	103.6	106.1	107.7	108.9	107.7	106.1	103.6	100.5	97.0	92.8	87.8
-77.5°	66.3	69.1	70.4	71.4	70.4	69.1	66.3	63.4	60.4	57.2	53.1
-80°	46.2	47.9	48.1	48.2	48.1	47.9	46.2	44.5	42.6	40.7	37.9
-82.5°	31.0	32.0	32.1	32.1	32.1	32.0	31.0	30.0	28.9	27.8	26.2
-85°	24.0	24.9	25.0	25.0	25.0	24.9	24.0	23.0	22.0	21.0	19.5
-87.5°	17.4	17.8	18.7	19.6	18.7	17.8	17.4	16.9	16.5	16.0	14.7
-90°	2.3	1.8	0.9	0.0	0.9	1.8	2.3	2.7	3.2	3.6	4.1



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	12.5	11.6	10.7	9.8	8.9	8.0	7.1	7.1	7.1	7.1	7.1
87.5°	4.5	5.0	5.4	5.4	5.4	5.4	5.4	5.8	6.3	6.7	7.1
85°	4.5	5.0	5.4	5.7	6.0	6.3	6.5	6.6	6.7	6.9	7.1
82.5°	4.5	5.0	5.4	5.9	6.3	6.7	7.1	7.1	7.1	7.1	7.1
80°	4.6	5.0	5.5	5.9	6.3	6.7	7.1	7.1	7.1	7.1	7.1
77.5°	4.6	5.0	5.5	5.9	6.4	6.8	7.1	7.1	7.1	7.1	7.1
75°	5.7	6.0	6.3	6.7	6.9	7.0	7.3	7.6	7.7	7.7	7.5
72.5°	8.0	8.3	8.8	9.3	9.5	9.8	9.9	9.7	9.4	9.1	8.7
70°	10.2	10.9	12.2	13.7	14.7	15.2	14.6	13.6	12.5	11.8	10.9
67.5°	11.2	12.2	14.5	17.0	18.9	20.3	20.3	19.3	17.8	16.4	14.0
65°	11.4	12.3	15.7	19.1	22.1	24.6	26.3	26.4	25.3	22.7	18.3
62.5°	11.0	12.3	15.1	18.3	22.2	27.5	33.0	34.9	34.7	30.6	24.6
60°	9.6	11.0	13.1	15.8	19.0	26.3	35.4	42.2	46.3	39.7	31.0
57.5°	8.4	9.3	10.7	12.7	15.3	23.5	34.3	46.5	54.2	45.4	37.1
55°	6.9	7.8	8.8	9.8	11.5	19.2	29.3	41.2	49.9	47.3	38.2
52.5°	7.0	7.6	8.1	8.6	10.3	14.7	21.5	32.7	39.3	38.7	35.9
50°	8.7	8.4	8.4	8.8	9.8	11.4	15.8	23.5	27.0	29.8	29.5
47.5°	10.4	10.1	9.2	9.0	10.0	11.1	12.8	14.9	19.2	20.8	22.6
45°	12.5	12.5	12.0	11.5	10.9	11.4	12.4	14.1	15.2	17.1	16.4
42.5°	17.2	16.2	15.2	15.7	14.8	13.8	13.7	15.3	15.7	16.1	17.3
40°	26.8	23.8	22.7	22.4	21.5	18.7	19.2	18.7	18.5	17.4	20.2
37.5°	46.5	40.5	37.4	32.7	31.0	29.1	27.6	26.0	23.6	24.2	25.6
35°	80.5	72.2	63.0	53.3	43.8	42.8	38.9	35.4	33.6	33.7	33.4
32.5°	129.0	130.0	108.1	89.6	73.9	63.1	55.1	47.1	49.2	47.5	43.6
30°	258.9	240.9	205.3	159.8	135.1	99.5	77.1	71.8	68.5	64.9	56.1
27.5°	501.5	420.1	366.4	322.0	237.0	172.5	125.3	102.6	91.8	84.7	77.3
25°	859.7	711.0	640.5	561.8	436.2	314.5	215.5	152.3	123.5	111.1	127.8
22.5°	1367.6	1260.4	1039.7	871.0	777.7	623.7	412.0	212.0	173.3	185.3	187.3
20°	2473.7	2260.2	1773.0	1580.3	1370.6	1027.3	694.2	436.9	323.6	280.4	255.6
17.5°	5386.1	4035.9	3554.9	3042.6	2361.7	1662.8	1358.6	903.7	519.1	390.8	332.0
15°	10219.1	8100.3	6646.0	5338.9	4103.7	3288.2	2437.8	1494.5	814.5	545.5	441.7
12.5°	18793.7	13962.8	10389.4	8518.0	6963.2	5504.4	3952.1	2434.0	1310.9	781.9	607.3
10°	28285.8	21125.4	15816.7	12493.9	10146.5	8015.8	5653.3	3459.3	1872.8	1049.6	776.7
7.5°	39476.6	29174.9	21592.8	16325.8	12928.2	10038.0	7176.8	4491.1	2440.7	1322.7	947.4
5°	49188.7	35856.5	25961.1	19323.1	15273.4	11979.2	8636.7	5493.6	2991.2	1593.0	1116.2
2.5°	56005.7	40862.9	29604.0	22030.8	17268.0	13498.1	9774.2	6231.7	3352.8	1780.1	1217.1
0°	59532.2	44002.2	31738.1	23023.7	18089.2	13997.0	10425.9	6672.8	3571.1	1931.0	1309.9
-2.5°	58559.5	43250.4	31475.8	23215.8	18223.8	14040.3	10298.3	6737.8	3659.6	1977.3	1318.0
-5°	54188.6	39157.2	28428.2	21139.8	16760.2	13071.8	9648.2	6421.0	3582.9	1965.7	1317.9
-7.5°	47104.9	34184.4	24848.7	18684.7	14872.7	11661.8	8634.3	5738.2	3266.2	1810.8	1248.7
-10°	38509.1	28719.4	21400.7	16539.0	13089.3	10191.7	7527.8	4978.8	2868.8	1632.2	1173.1
-12.5°	31186.3	23745.9	17981.4	14301.7	11421.1	8900.5	6478.7	4196.8	2395.8	1433.8	1092.6
-15°	24578.4	19576.4	15665.5	12465.3	9798.9	7599.3	5472.6	3420.5	1891.2	1227.3	1008.0
-17.5°	20607.3	16412.4	13424.4	10779.9	8451.7	6382.2	4514.8	2795.9	1569.5	1075.1	937.5
-20°	17299.5	14314.6	11590.6	9218.0	7145.3	5267.4	3542.0	2126.0	1315.8	995.4	879.1



REPORT NUMBER: P731464 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-4S-CV5

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	14647.6	12332.2	9931.2	7703.6	5816.6	4173.6	2703.3	1557.4	1035.8	914.5	817.2
-25°	12013.5	10295.1	8288.3	6396.9	4593.1	3059.0	1893.0	1256.8	955.9	839.2	752.3
-27.5°	9581.3	8134.6	6758.1	5061.8	3462.0	2193.3	1392.3	1000.1	891.0	787.9	688.5
-30°	7390.5	6273.9	5074.5	3713.6	2465.6	1522.9	1061.7	930.1	833.7	738.5	643.5
-32.5°	5504.6	4538.6	3474.3	2490.5	1621.3	1144.1	968.3	864.4	777.9	690.5	614.1
-35°	3806.4	3000.3	2160.1	1583.3	1144.4	1005.3	910.0	816.8	724.3	645.9	586.2
-37.5°	2362.3	1780.6	1426.2	1108.4	1025.9	943.9	860.2	765.7	674.7	612.6	560.8
-40°	1498.5	1191.5	1102.9	1026.5	958.7	892.3	798.5	706.8	641.7	580.7	535.9
-42.5°	1150.0	1080.4	1017.8	959.0	892.6	810.0	730.7	668.5	609.1	556.3	518.2
-45°	1046.4	994.7	942.6	873.8	798.5	738.5	686.3	630.6	577.7	537.6	502.9
-47.5°	946.3	891.9	834.0	783.1	731.3	682.6	638.3	592.4	555.0	518.4	469.5
-50°	831.6	791.0	749.8	709.7	669.5	628.4	595.6	567.0	526.2	478.9	427.5
-52.5°	737.1	707.0	675.3	642.7	615.7	588.7	561.1	522.7	480.3	426.5	370.0
-55°	656.6	636.8	616.9	596.3	572.3	537.8	503.0	462.7	414.3	361.6	311.7
-57.5°	601.9	584.5	559.5	532.8	504.6	466.2	424.1	382.4	344.0	298.9	253.2
-60°	527.8	508.3	478.1	444.9	408.7	372.0	340.4	307.7	273.9	236.4	197.6
-62.5°	428.5	402.6	376.1	349.3	320.2	290.1	263.1	235.7	206.2	174.5	148.0
-65°	333.9	312.5	289.2	265.5	240.8	215.2	191.6	169.9	149.1	126.8	104.8
-67.5°	248.5	228.3	207.9	189.0	172.3	153.7	136.4	118.3	105.3	94.1	82.5
-70°	181.5	167.0	152.3	136.7	122.4	110.2	100.4	91.0	81.0	69.5	58.0
-72.5°	129.4	119.5	109.9	100.3	91.2	81.5	71.3	61.2	51.1	41.2	34.1
-75°	82.1	75.5	68.1	60.3	52.3	44.1	39.0	35.6	32.2	28.8	25.6
-77.5°	49.0	44.9	41.0	37.8	34.5	31.1	27.8	25.4	23.6	22.0	20.4
-80°	35.1	32.3	29.7	27.4	25.3	23.3	21.5	20.2	19.0	17.8	16.8
-82.5°	24.5	22.8	21.1	19.8	18.5	17.1	15.7	15.0	14.3	13.7	13.1
-85°	18.1	16.6	15.1	14.1	13.1	12.1	11.2	11.0	10.8	10.6	10.4
-87.5°	13.3	12.0	10.7	10.2	9.7	9.1	8.6	8.5	8.5	8.4	8.4
-90°	4.5	5.0	5.4	5.4	5.4	5.4	5.4	5.8	6.3	6.7	7.1



REPORT NUMBER: P731464 (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°	7.1	7.1	7.1	7.1	7.6	8.0	8.5	8.9	8.4	8.0	7.6
87.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.3	7.4	7.5
85°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.5	7.7	7.9
82.5°	7.1	7.1	7.1	7.1	7.4	7.6	7.6	7.6	7.8	8.0	8.3
80°	7.1	7.1	7.1	7.2	7.6	8.1	8.3	8.3	8.3	8.4	8.6
77.5°	7.1	7.1	7.1	7.2	7.7	8.1	8.6	8.9	8.8	8.7	8.7
75°	7.2	7.1	7.1	7.3	7.7	8.2	8.6	8.9	8.9	8.9	8.8
72.5°	8.3	7.9	7.5	7.3	7.8	8.2	8.6	8.9	8.9	8.9	8.9
70°	9.9	9.1	8.6	8.2	8.1	8.3	8.7	8.9	8.9	8.9	8.9
67.5°	11.6	10.5	9.6	9.0	8.6	8.6	8.8	8.9	8.9	8.9	8.9
65°	15.5	12.9	10.6	9.7	9.1	8.8	8.9	8.9	8.9	8.9	8.9
62.5°	19.8	16.1	13.4	10.8	9.5	9.0	8.9	8.9	8.9	8.9	8.9
60°	24.3	19.5	16.0	13.2	10.6	9.1	8.9	8.9	8.9	8.9	8.9
57.5°	28.5	22.2	18.3	15.2	12.5	10.0	8.9	8.9	8.9	8.9	8.9
55°	31.1	24.5	20.1	16.6	13.9	11.4	9.4	8.9	8.9	8.9	8.9
52.5°	29.6	25.5	21.7	17.7	14.7	12.6	10.6	8.9	8.9	8.9	8.9
50°	25.9	25.0	22.3	18.5	15.2	13.2	11.6	9.7	8.9	8.9	9.0
47.5°	23.5	23.9	22.3	18.9	15.4	13.8	12.3	10.5	8.9	8.9	9.1
45°	20.6	22.7	22.1	19.3	15.8	14.3	12.8	11.2	9.5	9.0	9.3
42.5°	18.6	21.5	21.7	19.8	17.2	14.8	13.2	11.6	10.0	9.1	9.4
40°	21.2	21.1	21.7	21.2	18.8	15.3	13.6	12.0	10.4	9.4	9.5
37.5°	25.3	23.6	22.4	24.8	21.2	17.0	14.0	12.4	11.0	9.9	9.6
35°	31.9	28.6	27.7	29.9	26.0	18.9	14.4	12.7	11.8	10.4	9.8
32.5°	40.2	37.8	37.3	36.2	32.3	20.9	15.6	14.0	12.8	10.9	9.9
30°	53.5	55.0	48.3	43.7	39.5	26.7	18.1	15.5	13.9	11.3	10.1
27.5°	82.7	77.3	62.2	53.9	46.8	34.3	22.2	17.2	15.2	12.0	10.4
25°	121.5	106.9	84.1	65.5	54.9	53.6	26.8	19.2	16.6	13.0	10.8
22.5°	171.9	143.1	109.4	77.8	83.9	78.8	37.2	23.0	18.2	14.0	11.2
20°	229.5	184.7	144.3	120.3	117.8	104.3	55.6	26.9	19.8	15.1	11.5
17.5°	293.1	254.8	219.0	175.3	153.7	132.5	77.1	31.1	21.5	16.2	11.8
15°	406.8	360.1	300.2	235.1	191.3	162.9	101.0	35.4	23.3	17.4	12.4
12.5°	537.1	470.8	385.7	298.4	230.1	194.9	126.5	39.8	25.0	19.0	13.2
10°	671.0	585.0	474.1	363.9	269.6	227.9	152.7	45.4	28.7	21.1	14.1
7.5°	806.7	700.8	563.5	430.0	309.9	263.1	181.8	54.0	32.7	23.1	15.1
5°	933.4	802.5	638.8	487.1	352.8	300.0	210.0	62.5	36.8	25.0	16.0
2.5°	1019.8	879.8	702.1	539.3	394.8	335.7	236.0	70.7	40.8	26.9	16.9
0°	1101.1	951.2	760.3	587.1	435.5	369.4	258.8	78.5	44.6	28.6	17.8
-2.5°	1116.1	963.4	768.4	599.2	452.2	382.4	267.5	92.7	54.0	33.7	20.3
-5°	1124.9	968.1	771.2	607.2	466.8	392.4	272.4	105.9	62.9	38.5	22.7
-7.5°	1080.9	937.0	756.6	608.2	479.2	399.1	274.0	117.9	71.1	42.9	24.9
-10°	1021.9	882.3	718.8	585.8	475.5	398.1	272.4	128.5	78.4	46.7	26.8
-12.5°	960.1	823.7	679.7	562.1	468.3	390.8	267.4	137.8	84.6	49.9	28.5
-15°	896.2	762.1	640.3	538.0	460.9	382.2	260.7	145.5	90.6	53.0	29.9
-17.5°	833.7	698.4	601.7	514.3	453.4	372.6	252.8	151.3	95.1	55.8	31.3
-20°	773.7	649.9	565.8	491.8	446.4	362.5	244.0	154.9	98.1	57.6	32.7



REPORT NUMBER: P731464 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-4S-CV5

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	713.2	616.6	542.2	479.3	436.2	352.2	234.8	156.3	99.4	58.3	33.6
-25°	654.8	584.2	520.2	470.8	421.1	337.0	230.2	155.2	98.9	57.6	34.1
-27.5°	613.1	554.7	498.7	461.2	403.2	322.7	228.0	154.3	97.2	55.7	34.0
-30°	579.5	530.6	485.0	447.9	384.8	301.6	222.7	151.0	94.9	54.5	33.4
-32.5°	555.5	508.0	472.5	426.6	361.1	279.0	209.6	145.1	90.7	53.7	32.6
-35°	535.8	492.6	458.2	405.4	334.2	259.3	192.7	136.6	84.7	52.1	31.3
-37.5°	515.0	480.5	435.1	379.9	306.3	237.4	175.8	123.1	76.6	49.7	29.4
-40°	501.2	462.8	413.0	348.4	279.3	213.4	157.0	109.5	71.5	46.6	26.9
-42.5°	485.5	436.9	379.9	315.5	250.8	190.5	136.7	95.0	65.6	43.0	23.8
-45°	455.4	403.6	340.8	280.2	220.6	165.4	119.6	80.6	58.7	38.7	21.0
-47.5°	419.1	358.6	299.7	242.6	190.5	140.3	101.4	72.1	51.2	33.6	19.2
-50°	367.8	311.4	256.6	206.2	157.8	119.3	84.5	62.7	43.8	27.1	17.1
-52.5°	315.2	262.3	214.8	169.5	131.3	97.2	73.0	52.7	35.9	22.8	14.7
-55°	261.3	215.9	174.1	137.6	105.2	81.1	60.6	43.3	27.6	19.5	12.3
-57.5°	211.3	171.2	138.4	107.7	85.0	66.3	48.7	33.3	22.8	16.1	12.5
-60°	162.3	133.1	104.5	85.7	68.7	52.0	36.8	24.9	19.0	13.3	12.5
-62.5°	121.6	98.2	83.4	68.1	53.0	38.5	25.9	20.8	15.2	13.2	12.5
-65°	91.8	78.4	64.6	50.9	37.5	26.8	21.6	16.6	14.0	12.9	12.4
-67.5°	70.5	57.7	45.5	33.4	26.7	21.8	17.1	14.7	13.3	12.5	11.9
-70°	46.9	36.1	30.0	25.4	20.9	17.1	15.2	13.5	12.5	11.9	11.4
-72.5°	30.4	26.6	22.8	19.1	17.3	15.5	13.7	12.4	11.9	11.4	10.8
-75°	22.3	20.3	18.7	17.2	15.6	13.9	12.5	11.6	11.2	10.8	10.3
-77.5°	19.0	17.7	16.5	15.1	13.6	12.3	11.4	10.9	10.5	10.2	9.8
-80°	15.7	14.5	13.4	12.2	11.3	10.7	10.4	10.1	9.8	9.6	9.3
-82.5°	12.1	11.4	10.7	10.2	10.0	9.8	9.6	9.4	9.2	8.9	8.8
-85°	10.0	9.7	9.4	9.2	9.0	8.9	8.9	8.9	8.8	8.6	8.4
-87.5°	8.3	8.3	8.2	8.1	8.3	8.5	8.7	8.9	8.6	8.3	8.0
-90°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1



REPORT NUMBER: P731464 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	7.1	7.6	8.0	8.5	8.9	8.0	7.1
87.5°	7.6	7.5	7.4	7.3	7.3	7.2	7.1
85°	8.0	7.9	7.7	7.6	7.4	7.3	7.1
82.5°	8.5	8.3	8.0	7.8	7.6	7.3	7.1
80°	8.9	8.7	8.3	8.0	7.7	7.4	7.1
77.5°	8.9	8.9	8.7	8.3	7.9	7.5	7.1
75°	8.9	8.9	8.9	8.5	8.0	7.6	7.1
72.5°	8.9	8.9	8.9	8.7	8.2	7.6	7.1
70°	8.9	8.9	8.9	8.9	8.3	7.7	7.1
67.5°	8.9	8.9	8.9	8.9	8.5	7.8	7.1
65°	8.9	8.9	8.9	8.9	8.6	7.9	7.1
62.5°	8.9	8.9	8.9	8.9	8.8	7.9	7.1
60°	8.9	8.9	8.9	8.9	8.9	8.0	7.1
57.5°	8.9	8.9	8.9	8.9	8.9	8.1	7.1
55°	8.9	8.9	8.9	8.9	8.9	8.1	7.1
52.5°	8.9	8.9	8.9	8.9	8.9	8.2	7.1
50°	8.9	8.9	8.9	8.9	8.9	8.3	7.1
47.5°	8.9	8.9	8.9	8.9	8.9	8.3	7.1
45°	9.1	8.9	8.9	8.9	8.9	8.4	7.1
42.5°	9.2	8.9	8.9	8.9	8.9	8.4	7.1
40°	9.4	8.9	8.9	8.9	8.9	8.5	7.1
37.5°	9.7	8.9	8.9	8.9	8.9	8.5	7.1
35°	9.9	9.0	8.9	8.9	8.9	8.6	7.1
32.5°	10.1	9.2	8.9	8.9	8.9	8.6	7.1
30°	10.2	9.4	8.9	8.9	8.9	8.7	7.1
27.5°	10.3	9.6	8.9	8.9	8.9	8.7	7.1
25°	10.4	9.8	8.9	8.9	8.9	8.7	7.1
22.5°	10.5	10.0	8.9	8.9	8.9	8.8	7.1
20°	10.7	10.1	8.9	8.9	8.9	8.8	7.1
17.5°	10.8	10.3	8.9	8.9	8.9	8.8	7.1
15°	11.0	10.4	8.9	8.9	8.9	8.8	7.1
12.5°	11.2	10.5	8.9	8.9	8.9	8.9	7.1
10°	11.5	10.6	8.9	8.9	8.9	8.9	7.1
7.5°	11.7	10.6	8.9	8.9	8.9	8.9	7.1
5°	12.0	10.7	8.9	8.9	8.9	8.9	7.1
2.5°	12.2	10.7	8.9	8.9	8.9	8.9	7.1
0°	12.5	10.7	8.9	8.9	8.9	8.9	7.1
-2.5°	13.7	10.9	8.9	8.9	8.9	8.9	7.1
-5°	14.8	11.1	8.9	8.9	8.9	8.9	7.1
-7.5°	15.8	11.2	8.9	8.9	8.9	8.9	7.1
-10°	16.7	11.3	8.9	8.9	8.9	8.9	7.1
-12.5°	17.5	11.4	8.9	8.9	8.9	8.9	7.1
-15°	18.0	11.4	8.9	8.9	8.9	8.8	7.1
-17.5°	18.3	11.3	8.9	8.9	8.9	8.8	7.1
-20°	18.6	11.2	8.9	8.9	8.9	8.8	7.1



REPORT NUMBER: P731464 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-4S-CV5

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	19.1	11.1	8.9	8.9	8.9	8.8	7.1
-25°	19.1	11.1	8.9	8.9	8.9	8.8	7.1
-27.5°	18.8	11.1	8.9	8.9	8.9	8.7	7.1
-30°	18.2	10.9	8.9	8.9	8.9	8.7	7.1
-32.5°	17.1	10.6	9.0	8.9	8.9	8.7	7.1
-35°	16.5	10.2	9.2	8.9	8.9	8.7	7.1
-37.5°	15.9	9.9	9.3	8.9	8.9	8.6	7.1
-40°	15.1	10.0	9.4	8.9	8.9	8.6	7.1
-42.5°	14.1	10.2	9.5	8.9	8.9	8.6	7.1
-45°	12.9	10.3	9.6	9.0	8.9	8.6	7.1
-47.5°	11.4	10.4	9.6	9.0	8.9	8.5	7.1
-50°	11.3	10.6	9.7	9.0	8.9	8.5	7.1
-52.5°	11.4	10.7	9.7	9.0	8.9	8.5	7.1
-55°	11.6	10.7	9.6	9.0	8.9	8.4	7.1
-57.5°	11.7	10.6	9.6	9.0	8.9	8.4	7.1
-60°	11.8	10.5	9.6	9.0	8.9	8.4	7.1
-62.5°	11.5	10.3	9.5	9.0	8.9	8.4	7.1
-65°	11.3	10.2	9.4	9.0	8.9	8.3	7.1
-67.5°	10.9	10.0	9.3	9.0	8.9	8.3	7.1
-70°	10.6	9.8	9.2	8.9	8.9	8.3	7.1
-72.5°	10.2	9.5	9.1	8.9	8.9	8.2	7.1
-75°	9.8	9.3	8.9	8.8	8.9	8.2	7.1
-77.5°	9.4	9.0	8.8	8.8	8.9	8.2	7.1
-80°	9.0	8.7	8.6	8.7	8.9	8.1	7.1
-82.5°	8.5	8.4	8.5	8.6	8.9	8.1	7.1
-85°	8.0	8.1	8.3	8.6	8.9	8.1	7.1
-87.5°	7.6	7.8	8.2	8.5	8.9	8.0	7.1
-90°	7.1	7.1	7.1	7.1	7.1	7.1	7.1

(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

