

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: P731479 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-40-80-2S-CV2**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731479 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-11)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-08-0530N-40-80-2S-CV2
Description: EPHEBUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 2S BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

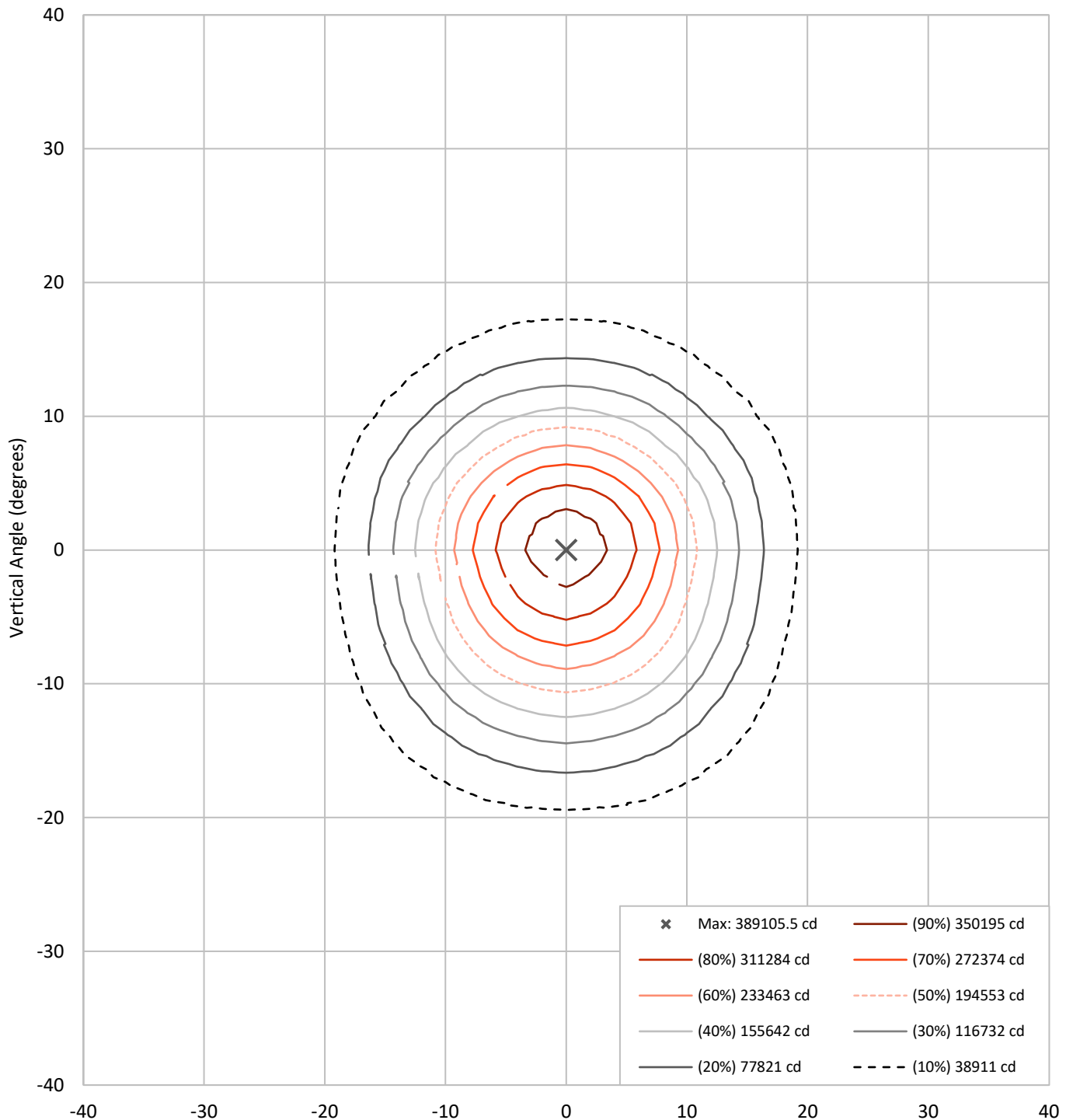
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	60234.3 lumens	Max Intensity:	389105.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	107.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	21.7°H x 19.8°V	Field Angle (10%):	38.4°H x 36.6°V
Beam Lumens:	27845.8 lumens	Field Lumens:	51945.5 lumens
Beam Efficiency:	46.2%	Field Efficiency:	86.2%

Input Watts (W): 561.4
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





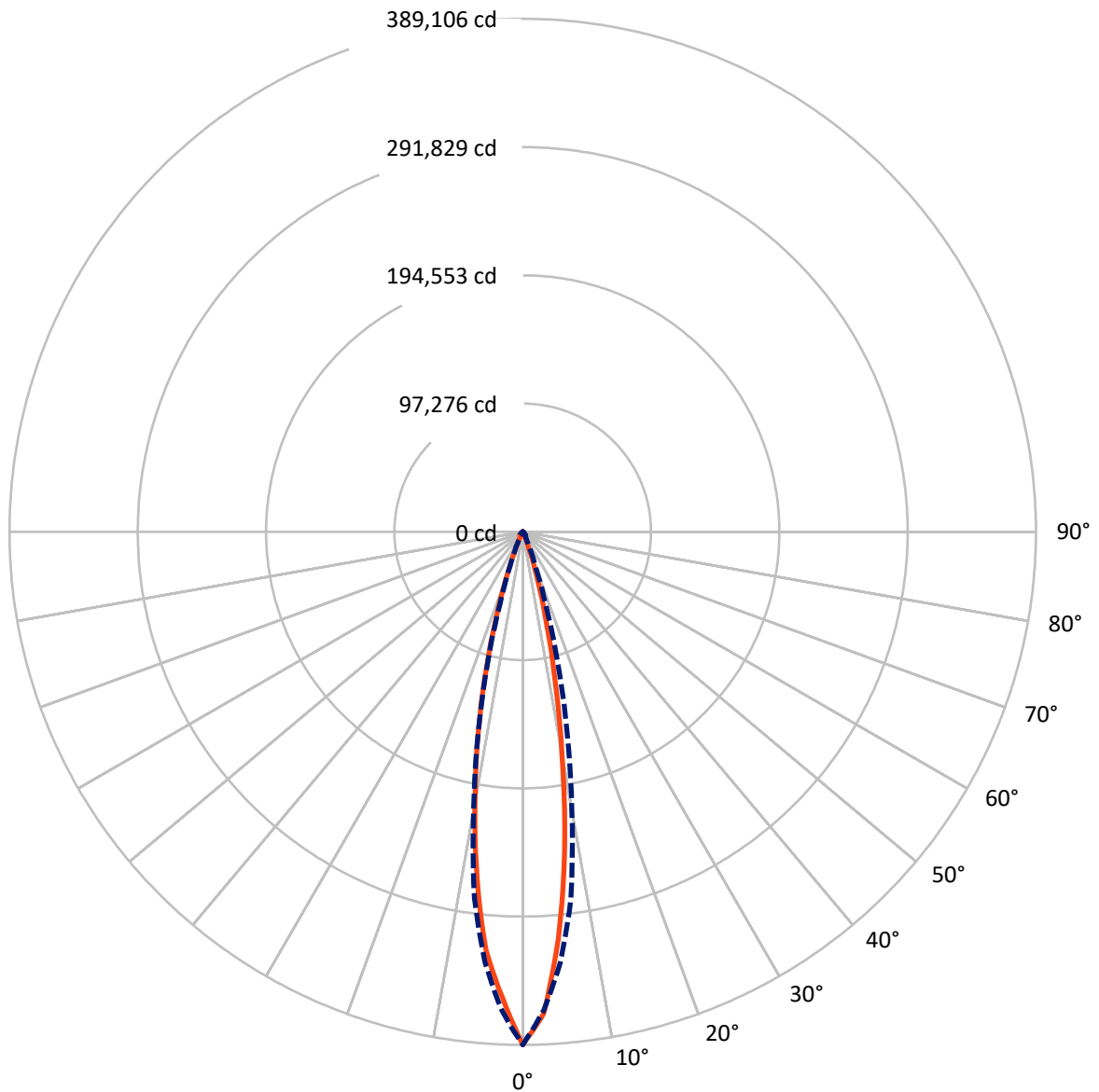
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Lumen Table

90	0.1	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.1					
80	0.1	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.1					
70	0.1	0.1	0.2	0.5	0.6	0.4	0.2	0.2	0.2	0.2	0.4	0.6	0.5	0.2	0.1	0.1
60		0.1	0.3	0.5	0.4	0.3	0.2	0.3	0.3	0.2	0.3	0.4	0.5	0.3	0.1	
50	0.2	0.2	0.4	0.5	0.6	0.8	1.1	1.2	1.2	1.1	0.8	0.6	0.5	0.4	0.2	0.2
40		0.2	0.8	1.7	3.5	5.6	6.8	7.9	7.9	6.8	5.6	3.5	1.7	0.8	0.2	
30	0.2	0.4	2.5	8.4	22.3	32.8	57.5	126.5	126.5	57.5	32.8	22.3	8.4	2.5	0.4	0.2
20		0.8	5.6	21.8	51.2	100.2	622.5	1942.4	1942.4	622.5	100.2	51.2	21.8	5.6	0.8	
10	0.3	1.6	9.6	40.3	83.6	269.6	2544.1	7577.9	7577.9	2544.1	269.6	83.6	40.3	9.6	1.6	0.3
0		2.6	12.6	47.3	93.7	270.5	2696.2	7900.5	7900.5	2696.2	270.5	93.7	47.3	12.6	2.6	
-10	0.5	3.0	12.8	43.7	92.5	154.7	992.7	2865.0	2865.0	992.7	154.7	92.5	43.7	12.8	3.0	0.5
-20		2.7	10.9	26.1	65.8	96.8	151.1	295.9	295.9	151.1	96.8	65.8	26.1	10.9	2.7	
-30	0.4	2.3	8.0	16.3	36.4	69.6	90.2	99.1	99.1	90.2	69.6	36.4	16.3	8.0	2.3	0.4
-40		1.6	5.5	12.1	20.6	34.1	59.1	79.9	79.9	59.1	34.1	20.6	12.1	5.5	1.6	
-50	0.2	0.7	3.3	7.8	14.3	21.4	27.4	30.7	30.7	27.4	21.4	14.3	7.8	3.3	0.7	0.2
-60		0.3	1.2	3.7	7.6	12.3	17.3	20.4	20.4	17.3	12.3	7.6	3.7	1.2	0.3	
-70	0.2	0.7	3.3	7.8	14.3	21.4	27.4	30.7	30.7	27.4	21.4	14.3	7.8	3.3	0.7	0.2
-80		0.3	1.2	3.7	7.6	12.3	17.3	20.4	20.4	17.3	12.3	7.6	3.7	1.2	0.3	
-90	0.2	0.9	2.8	7.0	10.2	7.0	2.8	0.9	0.2							

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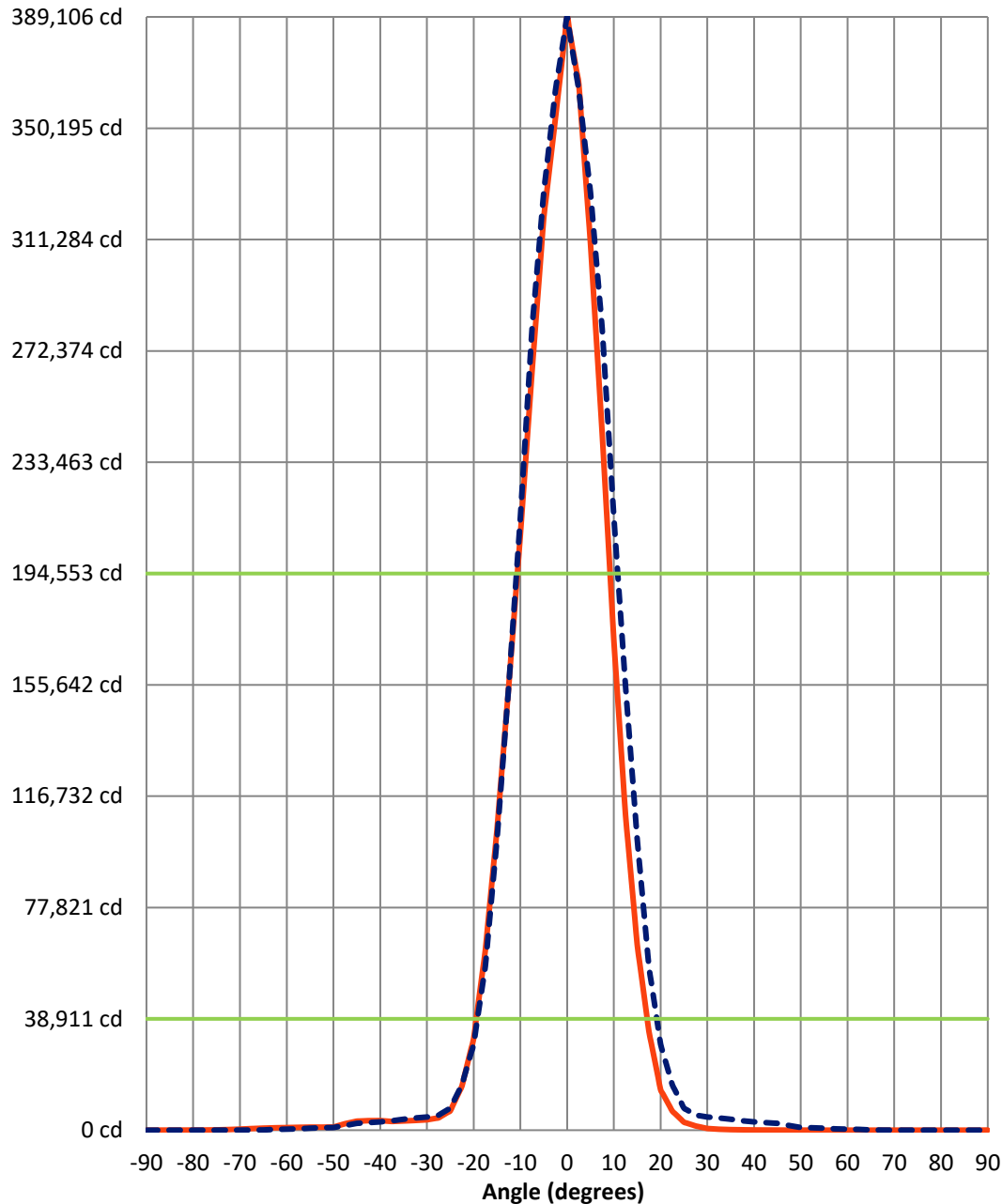
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 21.7°
V Angle: 19.8°
Lumens: 27845.8
Efficiency: 46.2%

Field:
H Angle: 38.4°
V Angle: 36.6°
Lumens: 51945.5
Efficiency: 86.2%

Spill:
Lumens: 8288.8
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°	6.3	6.3	6.3	6.7	7.1	7.4	7.8	7.8	7.8	7.8	7.8
87.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.0	5.8	5.6	5.4
85°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.1	6.1	6.0	6.1
82.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
80°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
77.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
75°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
72.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
70°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.4
67.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.5	6.5
65°	6.3	6.3	6.3	6.3	6.3	6.4	6.4	6.3	6.6	6.8	6.6
62.5°	6.3	6.3	6.3	6.3	6.3	6.5	6.5	6.6	7.0	7.0	6.7
60°	6.3	6.3	6.3	6.3	6.3	6.6	6.6	7.0	7.4	7.1	6.8
57.5°	6.3	6.3	6.3	6.3	6.4	6.7	6.9	7.4	7.5	7.2	6.8
55°	6.3	6.3	6.3	6.3	6.6	6.9	7.2	7.8	7.6	7.2	6.9
52.5°	6.3	6.3	6.4	6.3	6.8	7.1	7.4	7.8	7.6	7.3	7.0
50°	6.3	6.3	6.4	6.3	6.9	7.2	7.6	7.8	7.7	7.4	8.3
47.5°	6.3	6.3	6.4	6.3	7.1	7.4	7.8	7.8	7.8	7.5	9.4
45°	6.3	6.3	6.5	6.5	7.3	7.5	7.8	7.8	7.9	8.2	10.3
42.5°	6.3	6.3	6.5	6.6	7.5	7.6	7.8	7.9	8.0	8.8	11.5
40°	6.3	6.3	6.6	6.8	7.6	7.7	7.8	8.0	8.3	9.1	12.7
37.5°	6.3	6.3	6.6	6.9	7.7	7.8	7.8	8.1	8.9	10.1	13.7
35°	6.3	6.3	6.7	7.1	7.7	7.8	7.8	8.3	9.6	11.8	14.3
32.5°	6.3	6.3	6.8	7.2	7.8	7.8	7.8	8.6	10.4	13.5	15.6
30°	6.3	6.3	6.8	7.3	7.8	7.8	8.0	8.9	11.3	15.2	17.2
27.5°	6.3	6.3	6.9	7.4	7.8	7.8	8.2	9.6	12.4	17.0	19.1
25°	6.3	6.3	7.0	7.5	7.8	7.8	8.4	10.3	13.8	18.7	21.2
22.5°	6.3	6.3	7.1	7.6	7.8	7.8	8.6	11.0	15.3	20.3	25.3
20°	6.3	6.3	7.2	7.7	7.8	7.9	8.8	11.7	16.7	22.1	29.2
17.5°	6.3	6.3	7.3	7.7	7.8	8.1	9.1	12.4	18.1	24.0	32.8
15°	6.3	6.3	7.3	7.7	7.8	8.3	9.4	13.1	19.5	25.9	36.2
12.5°	6.3	6.3	7.4	7.8	7.8	8.4	9.7	13.6	20.8	27.9	39.3
10°	6.3	6.3	7.5	7.8	7.8	8.6	10.0	14.2	22.2	31.0	44.1
7.5°	6.3	6.3	7.6	7.8	7.8	8.8	10.3	14.7	23.5	34.3	53.0
5°	6.3	6.3	7.7	7.8	7.8	9.0	10.5	15.1	24.7	37.6	62.2
2.5°	6.3	6.3	7.7	7.8	7.8	9.2	10.8	15.4	25.8	40.9	71.4
0°	6.3	6.3	7.8	7.8	7.8	9.4	11.0	15.7	26.7	44.0	80.1
-2.5°	6.3	6.3	7.8	7.9	7.9	9.7	12.2	19.4	34.6	57.4	103.4
-5°	6.3	6.4	7.8	8.0	8.1	10.1	13.4	22.8	42.1	70.3	125.4
-7.5°	6.3	6.4	7.8	8.1	8.2	10.4	14.6	26.1	49.0	82.3	145.6
-10°	6.3	6.4	7.8	8.2	8.4	10.6	15.6	28.9	55.2	93.1	163.3
-12.5°	6.3	6.5	7.7	8.3	8.5	10.9	16.4	31.4	60.4	102.5	173.8
-15°	6.3	6.5	7.7	8.4	8.6	11.0	17.1	33.2	65.2	109.8	180.1
-17.5°	6.3	6.5	7.7	8.4	8.8	11.2	17.6	35.4	69.6	115.9	184.3
-20°	6.3	6.5	7.7	8.5	8.9	11.3	18.1	37.4	72.8	120.5	186.4



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 CATALOG NUMBER: EPH-LS-08-0530N-40-80-2S-CV2

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	6.3	6.6	7.7	8.5	9.0	11.3	18.8	38.4	74.8	123.6	186.3
-25°	6.3	6.6	7.6	8.5	9.2	11.4	19.0	38.4	75.5	125.2	183.9
-27.5°	6.3	6.6	7.6	8.5	9.3	11.6	18.9	37.2	74.8	125.3	184.8
-30°	6.3	6.6	7.6	8.5	9.4	11.7	18.3	34.8	73.3	124.2	183.8
-32.5°	6.3	6.6	7.6	8.5	9.6	11.7	17.2	33.5	70.5	121.2	180.7
-35°	6.3	6.7	7.6	8.4	9.7	11.5	16.8	32.2	65.9	116.2	175.4
-37.5°	6.3	6.7	7.6	8.4	9.8	11.5	16.6	30.3	59.5	109.3	161.9
-40°	6.3	6.7	7.5	8.3	9.9	11.6	16.3	27.6	51.2	100.4	147.0
-42.5°	6.3	6.7	7.5	8.2	9.9	11.6	15.8	24.1	45.4	86.6	130.8
-45°	6.3	6.7	7.5	8.0	9.7	11.6	15.2	21.5	40.6	71.5	113.5
-47.5°	6.3	6.7	7.5	7.9	9.6	11.5	14.4	20.6	34.8	56.0	95.9
-50°	6.3	6.7	7.5	7.9	9.4	11.3	14.1	19.4	27.7	47.7	77.7
-52.5°	6.3	6.7	7.6	7.9	9.2	11.1	13.7	18.2	24.1	38.8	59.7
-55°	6.3	6.7	7.6	7.9	8.9	10.7	13.2	16.8	22.2	29.1	48.6
-57.5°	6.3	6.6	7.6	7.9	8.7	10.4	12.6	15.9	20.1	25.1	36.7
-60°	6.3	6.6	7.6	7.9	8.4	10.0	11.9	14.9	18.2	22.7	27.4
-62.5°	6.3	6.6	7.5	7.9	8.3	9.5	11.3	13.8	16.9	20.3	24.7
-65°	6.3	6.6	7.4	7.9	8.2	9.1	10.7	12.8	15.7	18.6	21.9
-67.5°	6.3	6.6	7.4	7.8	8.2	8.7	10.1	12.0	14.3	17.1	19.9
-70°	6.3	6.5	7.3	7.8	8.1	8.6	9.4	11.3	13.4	15.6	18.2
-72.5°	6.3	6.5	7.2	7.7	7.9	8.3	9.0	10.5	12.5	14.5	16.6
-75°	6.3	6.5	7.0	7.5	7.8	8.1	8.6	9.9	11.6	13.5	15.4
-77.5°	6.3	6.5	6.9	7.4	7.7	7.9	8.2	9.4	10.9	12.4	14.2
-80°	6.3	6.4	6.8	7.3	7.6	7.7	7.8	8.9	10.1	11.5	13.0
-82.5°	6.3	6.4	6.7	7.1	7.4	7.7	7.8	8.5	9.4	10.5	11.8
-85°	6.3	6.4	6.6	7.0	7.3	7.6	7.8	8.3	8.9	9.6	10.5
-87.5°	6.3	6.3	6.4	6.8	7.2	7.5	7.8	8.0	8.3	8.7	9.1
-90°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	5.9	5.5	5.1	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°	7.8	7.8	7.8	7.8	8.2	8.6	9.0	9.4	9.8	10.2	10.6
87.5°	5.3	5.1	4.9	4.7	4.7	4.7	4.7	4.7	4.3	3.9	3.5
85°	5.8	5.5	5.1	4.7	4.7	4.7	4.7	4.7	4.3	3.9	3.5
82.5°	5.9	5.5	5.1	4.7	4.7	4.7	4.7	4.7	4.3	3.9	3.5
80°	6.0	5.6	5.2	4.8	4.7	4.7	4.7	4.7	4.4	4.1	3.8
77.5°	6.0	5.6	5.2	4.8	4.7	5.0	5.3	5.5	5.5	5.3	5.1
75°	6.0	5.6	5.5	5.5	5.7	6.0	6.3	6.3	6.1	5.7	5.3
72.5°	6.1	6.0	6.0	6.3	6.3	6.3	6.3	6.3	7.1	8.1	8.9
70°	6.2	6.3	6.3	6.3	6.3	6.7	8.3	10.5	12.7	14.4	16.5
67.5°	6.3	6.3	6.3	6.5	7.6	9.4	11.8	18.0	25.2	27.5	27.4
65°	6.3	6.3	6.7	7.7	9.2	14.1	20.9	29.3	35.7	34.7	32.4
62.5°	6.3	6.5	7.3	9.6	14.0	20.4	26.9	33.0	39.1	38.1	33.1
60°	6.4	6.7	9.3	13.7	18.5	23.5	29.8	33.8	37.8	38.9	30.7
57.5°	6.5	8.1	12.5	17.2	21.5	25.2	27.6	31.0	33.3	33.7	25.3
55°	7.4	10.7	15.3	19.9	23.0	22.0	23.7	25.9	26.8	24.7	17.9
52.5°	9.4	13.0	17.7	21.5	21.9	20.2	19.8	20.8	19.2	16.4	14.2
50°	11.1	15.2	19.7	21.9	21.4	19.3	16.4	16.0	15.5	14.4	13.0
47.5°	12.8	17.3	21.2	22.7	21.1	19.1	15.8	15.4	15.5	16.4	15.5
45°	14.5	18.6	22.6	22.8	21.7	20.2	18.7	17.2	20.2	21.2	21.1
42.5°	16.0	19.4	23.0	23.3	23.9	23.6	23.2	24.9	26.7	28.3	28.9
40°	16.5	19.9	24.2	27.3	27.4	28.6	31.8	34.8	34.9	37.0	38.3
37.5°	16.7	21.9	27.7	34.6	32.5	36.4	41.8	50.0	51.2	46.4	53.0
35°	16.7	24.6	37.0	45.1	43.9	46.7	59.5	71.5	76.9	69.2	79.8
32.5°	18.4	28.1	48.9	57.5	65.5	68.5	81.0	104.7	118.0	122.9	131.8
30°	22.3	39.2	62.7	71.9	94.3	109.3	119.6	148.0	172.3	245.9	300.6
27.5°	27.3	52.7	76.4	97.7	130.7	156.3	178.7	207.8	297.0	431.1	570.5
25°	32.0	70.8	91.4	131.1	175.8	210.4	241.1	282.4	469.2	744.1	861.5
22.5°	41.7	91.6	115.2	168.6	225.0	266.0	310.6	422.4	674.8	1087.8	1136.2
20°	57.5	111.6	147.9	210.7	279.6	321.8	380.9	569.4	907.4	1223.0	1353.9
17.5°	74.4	133.5	183.7	260.4	343.9	391.7	460.8	711.0	1107.9	1388.8	1564.3
15°	92.1	156.8	218.1	314.8	412.0	478.0	620.7	905.4	1266.2	1583.1	1838.9
12.5°	110.1	181.0	250.8	372.5	483.3	563.1	814.6	1201.8	1531.5	1828.3	2175.6
10°	127.8	205.6	281.9	431.9	556.5	646.7	1028.0	1503.1	1826.8	2117.1	2473.2
7.5°	163.3	238.6	314.6	491.1	630.0	728.1	1251.1	1802.6	2097.7	2370.2	2719.6
5°	202.0	279.2	365.0	561.6	703.7	803.2	1454.3	2092.1	2347.5	2593.1	2934.5
2.5°	239.7	318.0	413.6	629.2	774.2	868.3	1558.4	2251.1	2506.3	2764.1	3120.0
0°	274.7	354.8	460.0	690.8	839.9	929.4	1634.3	2384.8	2639.1	2907.6	3282.8
-2.5°	303.9	392.3	508.9	720.0	858.1	945.0	1609.3	2383.5	2688.6	2986.9	3375.0
-5°	328.2	427.3	554.1	744.2	872.8	957.8	1559.9	2345.9	2729.5	3050.3	3444.7
-7.5°	347.4	459.6	594.7	763.1	881.8	964.1	1538.2	2361.5	2802.5	3106.0	3490.1
-10°	357.8	472.4	597.7	762.3	883.5	965.6	1490.2	2329.2	2863.0	3155.5	3509.4
-12.5°	343.9	467.0	589.9	754.4	884.0	965.0	1397.7	2243.6	2912.7	3202.8	3491.9
-15°	328.4	459.0	577.2	739.0	884.1	962.7	1256.5	2101.2	2884.5	3118.3	3418.7
-17.5°	312.2	448.2	559.4	715.5	884.4	958.9	1055.6	1795.5	2603.0	2939.5	3300.6
-20°	296.1	434.7	536.3	683.6	879.7	933.2	978.1	1485.2	2192.8	2712.2	3077.1



REPORT NUMBER: P731479 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	280.7	418.4	512.8	653.1	811.5	888.9	931.6	1184.7	1770.3	2435.9	2743.1
-25°	272.4	394.3	492.4	606.4	740.3	842.8	879.5	932.1	1397.2	1999.1	2438.4
-27.5°	268.1	373.4	465.2	560.0	674.4	787.4	827.2	872.9	1109.7	1571.7	2118.3
-30°	261.1	346.7	436.3	517.7	619.9	716.5	774.6	826.8	891.2	1238.3	1670.6
-32.5°	245.3	318.9	405.1	484.4	569.2	654.7	736.4	793.4	845.9	940.0	1282.0
-35°	226.9	295.4	372.5	449.8	521.5	604.9	689.8	764.5	806.9	850.7	1001.5
-37.5°	211.7	270.5	339.3	413.9	482.9	558.6	641.0	719.8	778.5	818.4	875.7
-40°	195.2	244.2	309.3	377.3	444.8	513.1	588.9	665.6	738.8	799.9	846.0
-42.5°	177.5	224.6	279.4	340.3	404.9	469.2	535.4	608.2	685.2	765.0	824.7
-45°	158.1	204.0	249.6	306.6	363.8	423.7	485.2	549.6	627.5	703.9	779.6
-47.5°	137.2	181.8	225.8	272.4	325.2	378.5	433.6	499.1	567.7	639.8	710.9
-50°	115.6	157.1	201.3	243.7	288.7	335.8	384.8	449.5	514.8	577.2	641.0
-52.5°	94.7	131.0	173.3	216.1	256.0	297.5	344.5	401.2	462.3	522.7	579.6
-55°	73.1	106.7	143.1	184.4	225.4	262.5	306.7	357.1	408.7	466.0	521.1
-57.5°	56.4	82.1	113.9	149.3	189.0	229.8	271.9	314.4	361.4	409.9	457.4
-60°	42.0	60.8	85.1	115.7	148.6	188.4	234.5	276.6	316.5	356.2	399.5
-62.5°	29.1	43.8	61.1	82.3	110.9	143.6	183.1	226.7	273.2	308.4	343.1
-65°	26.0	30.0	42.0	57.8	73.8	100.9	132.2	166.5	205.9	241.9	279.4
-67.5°	22.8	26.4	30.2	36.4	50.6	65.7	81.7	109.5	139.4	165.1	191.9
-70°	20.6	22.8	25.9	29.4	32.9	39.1	52.2	66.2	80.0	95.1	116.5
-72.5°	18.6	20.6	22.6	24.6	27.5	30.6	33.5	36.4	44.4	55.3	65.2
-75°	16.9	18.5	20.3	22.1	23.7	25.4	27.4	30.0	32.5	35.0	37.8
-77.5°	15.2	16.3	17.7	19.3	20.6	21.6	22.9	24.4	26.0	27.5	29.0
-80°	13.6	14.1	14.9	15.9	17.0	18.0	18.8	19.5	20.4	21.6	22.8
-82.5°	12.2	12.5	12.9	13.2	13.8	14.6	15.4	16.2	16.8	17.3	17.9
-85°	10.8	11.0	11.2	11.5	11.8	12.1	12.5	12.9	13.2	13.5	13.8
-87.5°	9.3	9.4	9.5	9.6	9.9	10.1	10.3	10.5	10.7	10.8	10.9
-90°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.3	3.9	3.5



REPORT NUMBER: P731479 (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°	11.0	11.0	11.0	11.0	11.0	13.3	15.7	18.0	20.4	23.9	27.4
87.5°	3.1	3.0	3.0	3.0	3.0	2.6	2.3	2.0	1.6	1.2	0.8
85°	3.1	3.1	3.1	3.1	3.1	2.7	2.4	2.0	1.6	1.6	1.6
82.5°	3.1	3.1	3.1	3.1	3.1	2.8	2.4	2.0	1.6	1.6	1.6
80°	3.6	3.6	3.5	3.3	3.1	2.8	2.4	2.0	1.6	1.6	1.6
77.5°	4.8	4.4	4.0	3.6	3.2	3.0	2.9	2.8	2.8	2.6	2.3
75°	4.9	4.7	4.8	4.6	4.1	3.8	3.7	3.5	3.2	3.1	3.0
72.5°	9.5	9.5	8.9	8.4	7.5	7.1	6.9	6.4	5.8	5.5	5.3
70°	17.2	16.9	16.3	14.9	12.8	11.0	10.0	8.9	7.8	7.4	7.5
67.5°	25.0	22.4	20.4	17.9	14.9	12.6	11.3	10.0	8.5	7.8	7.8
65°	29.0	23.6	20.1	17.5	15.5	13.2	11.2	9.3	7.6	6.8	7.0
62.5°	27.5	20.5	16.2	13.7	11.9	10.7	9.1	7.8	6.8	6.3	6.4
60°	22.8	15.3	11.5	10.3	9.0	7.9	7.4	6.7	5.9	5.3	5.5
57.5°	17.7	12.2	9.3	8.9	8.4	8.0	7.3	6.6	6.1	5.8	6.1
55°	13.2	10.9	9.5	9.5	9.3	8.6	7.7	7.6	7.5	7.3	7.4
52.5°	11.6	11.5	11.9	11.8	10.7	9.9	9.3	9.3	9.4	9.7	10.1
50°	13.2	13.6	13.4	12.3	12.1	11.7	11.0	11.7	12.6	12.9	13.2
47.5°	15.6	15.9	16.1	15.1	15.3	16.5	16.7	17.2	18.9	20.2	21.4
45°	20.1	21.8	22.3	22.9	23.3	25.8	27.0	27.6	32.5	34.7	35.0
42.5°	29.1	31.7	33.9	37.3	36.8	42.7	50.3	54.3	54.0	52.5	52.4
40°	42.5	47.2	57.5	63.0	69.0	75.9	76.6	68.2	68.3	76.8	76.3
37.5°	65.5	81.6	96.2	109.2	112.4	108.5	109.9	116.3	123.9	124.6	128.3
35°	110.4	143.0	150.6	160.5	171.4	161.1	159.8	170.1	166.6	184.2	196.9
32.5°	190.9	237.1	251.2	263.2	293.7	276.1	227.4	298.3	282.4	302.1	332.1
30°	303.7	394.6	455.7	474.0	481.7	483.8	529.6	570.2	602.4	645.3	706.1
27.5°	575.2	635.4	737.0	794.0	722.3	751.9	869.6	890.9	1012.1	1143.8	1252.0
25°	874.7	942.3	1123.1	1145.8	1085.9	1196.0	1309.8	1333.4	1547.1	1702.3	2073.7
22.5°	1145.5	1258.8	1452.2	1507.2	1557.1	1687.9	1820.1	1977.8	2459.4	3056.6	4140.3
20°	1374.6	1501.1	1690.2	1842.9	1967.5	2134.5	2288.5	2826.8	3864.1	6132.9	8600.7
17.5°	1652.0	1730.4	1964.1	2168.3	2363.7	2602.9	3283.6	4643.1	7646.1	12589.7	17275.1
15°	2025.8	2181.5	2326.6	2547.6	2912.4	3608.2	5110.2	9538.8	15821.2	24444.0	35124.5
12.5°	2456.8	2671.5	2872.7	3060.1	3583.6	5224.7	10017.4	17697.0	28258.0	42109.6	63070.7
10°	2841.7	3169.8	3416.7	3743.7	4757.6	7949.1	15347.6	26204.5	44762.3	69236.8	96591.2
7.5°	3108.8	3498.8	3831.8	4318.0	5971.3	11378.0	21620.1	38527.5	64906.7	97884.5	134784.9
5°	3363.1	3802.8	4129.6	4727.8	6773.7	13760.0	26374.4	48799.2	84623.6	128199.2	175575.4
2.5°	3603.2	4071.2	4392.6	5094.8	7280.3	14845.6	28365.9	55184.8	97377.3	148992.6	205259.3
0°	3826.0	4268.7	4604.7	5267.2	7708.5	15887.9	30059.9	57243.7	101686.0	155114.8	214295.7
-2.5°	3784.4	4113.5	4485.5	5149.6	7301.2	14770.2	28085.6	54825.4	96627.4	147806.5	202243.0
-5°	3769.9	4036.7	4372.6	4974.6	6798.1	12762.6	24944.3	49365.3	88339.0	134461.6	185164.2
-7.5°	3781.0	3992.9	4255.5	4753.3	6190.7	10790.5	21688.0	42793.7	74984.9	114035.6	159822.1
-10°	3804.7	3968.7	4234.8	4672.8	5678.9	8624.7	16413.3	32970.7	58957.2	90017.1	125694.2
-12.5°	3845.8	4066.6	4333.8	4631.4	5164.6	6869.6	12908.6	25594.2	43591.1	65412.0	92559.2
-15°	3831.7	4116.4	4418.2	4602.0	4892.3	5841.3	8373.0	16899.6	30161.4	44633.5	61062.6
-17.5°	3728.5	4069.4	4202.0	4344.6	4521.2	4988.7	6401.8	10192.3	17744.2	27253.1	36496.3
-20°	3488.9	3661.4	3827.3	3997.4	4193.0	4451.0	4890.5	6367.1	8578.5	13974.3	18485.1



REPORT NUMBER: P731479 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-2S-CV2

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3039.2	3205.2	3348.9	3624.9	3822.3	4011.9	4254.0	4573.5	5424.0	6760.0	8980.4
-25°	2653.4	2755.7	2957.9	3280.2	3492.3	3605.8	3757.7	3878.8	4170.4	4480.7	5247.6
-27.5°	2345.0	2498.3	2747.5	3029.8	3233.2	3324.5	3404.3	3475.5	3658.6	3785.4	4003.3
-30°	2101.1	2349.4	2582.8	2841.1	3028.1	3136.7	3170.7	3273.5	3392.8	3483.4	3571.6
-32.5°	1751.2	2187.9	2400.2	2614.1	2825.4	2959.0	3050.6	3131.6	3243.6	3313.1	3347.9
-35°	1374.3	1821.5	2239.6	2383.1	2536.6	2728.5	2884.8	2967.2	3040.9	3107.9	3150.2
-37.5°	1037.2	1403.5	1792.7	2142.7	2307.1	2450.7	2677.9	2815.5	2882.2	2982.2	3039.1
-40°	899.5	1003.4	1335.5	1663.3	1958.3	2285.3	2506.3	2718.4	2928.0	3056.5	3139.9
-42.5°	868.7	911.1	950.5	1180.2	1475.1	1771.4	2097.2	2457.0	2757.8	2984.4	3194.8
-45°	843.7	876.0	907.7	943.7	978.3	1204.9	1459.6	1727.7	2073.9	2409.0	2698.4
-47.5°	779.5	840.5	876.3	903.4	931.6	962.9	991.8	1052.6	1285.4	1532.9	1767.9
-50°	706.3	766.9	821.2	871.4	907.7	932.0	950.2	974.0	1001.8	1026.5	1049.2
-52.5°	634.4	693.1	748.2	802.8	854.0	901.1	944.6	972.1	993.2	1011.7	1023.2
-55°	573.9	624.5	673.9	727.9	780.5	830.6	877.8	920.3	960.3	997.7	1019.0
-57.5°	507.7	557.5	607.0	656.8	704.9	750.9	796.5	841.0	883.2	921.7	945.0
-60°	442.2	484.1	533.3	584.5	632.3	676.9	722.3	765.3	805.2	839.1	860.0
-62.5°	380.8	419.9	460.7	506.2	555.4	603.4	643.8	684.5	725.3	760.3	784.2
-65°	315.6	348.4	381.5	417.1	454.7	494.1	534.5	574.2	613.0	644.7	667.4
-67.5°	223.3	255.8	287.5	319.1	348.0	377.0	408.0	439.3	470.4	495.9	516.0
-70°	137.6	158.0	177.1	197.7	221.9	247.1	272.9	297.0	319.3	335.9	348.1
-72.5°	74.3	82.5	92.3	107.7	122.0	137.1	152.8	167.7	181.8	192.2	200.0
-75°	40.7	44.4	50.8	56.8	62.4	69.1	75.9	82.3	88.3	94.1	99.5
-77.5°	30.8	32.6	34.3	35.8	37.1	39.5	42.2	44.8	47.5	51.1	54.8
-80°	24.0	25.0	25.9	26.9	27.8	29.4	31.1	32.8	34.5	36.2	37.8
-82.5°	18.6	19.0	19.5	19.9	20.2	21.3	22.4	23.4	24.4	26.1	27.9
-85°	14.0	14.3	14.6	14.9	15.1	15.9	16.8	17.6	18.5	19.7	21.0
-87.5°	11.0	11.3	11.7	12.1	12.4	13.0	13.5	13.9	14.3	15.5	16.6
-90°	3.1	2.7	2.4	2.0	1.6	1.6	1.6	1.6	1.6	1.2	0.8



REPORT NUMBER: P731479 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-2S-CV2

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	31.0	34.5	36.8	39.2	36.8	34.5	31.0	27.4	23.9	20.4	18.0
87.5°	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.8	1.2	1.6	2.0
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0
77.5°	2.0	1.6	1.6	1.6	1.6	1.6	2.0	2.3	2.6	2.8	2.8
75°	3.0	3.1	3.1	3.1	3.1	3.1	3.0	3.0	3.1	3.2	3.5
72.5°	5.0	4.7	4.7	4.7	4.7	4.7	5.0	5.3	5.5	5.8	6.4
70°	7.6	7.7	7.8	7.8	7.8	7.7	7.6	7.5	7.4	7.8	8.9
67.5°	7.8	7.8	7.1	6.3	7.1	7.8	7.8	7.8	7.8	8.5	10.0
65°	7.4	7.7	7.1	6.3	7.1	7.7	7.4	7.0	6.8	7.6	9.3
62.5°	6.4	6.4	6.3	6.3	6.3	6.4	6.4	6.4	6.3	6.8	7.8
60°	5.8	6.2	6.3	6.3	6.3	6.2	5.8	5.5	5.3	5.9	6.7
57.5°	6.2	6.3	6.9	7.8	6.9	6.3	6.2	6.1	5.8	6.1	6.6
55°	7.6	7.7	7.8	7.8	7.8	7.7	7.6	7.4	7.3	7.5	7.6
52.5°	10.5	10.8	10.9	11.0	10.9	10.8	10.5	10.1	9.7	9.4	9.3
50°	13.6	13.9	13.5	12.6	13.5	13.9	13.6	13.2	12.9	12.6	11.7
47.5°	22.5	23.0	22.8	22.0	22.8	23.0	22.5	21.4	20.2	18.9	17.2
45°	35.9	35.9	35.8	36.1	35.8	35.9	35.9	35.0	34.7	32.5	27.6
42.5°	53.8	54.3	54.5	54.9	54.5	54.3	53.8	52.4	52.5	54.0	54.3
40°	77.7	78.1	77.2	75.4	77.2	78.1	77.7	76.3	76.8	68.3	68.2
37.5°	134.9	137.9	137.1	135.0	137.1	137.9	134.9	128.3	124.6	123.9	116.3
35°	201.4	199.6	194.2	194.7	194.2	199.6	201.4	196.9	184.2	166.6	170.1
32.5°	314.6	325.9	329.5	331.3	329.5	325.9	314.6	332.1	302.1	282.4	298.3
30°	749.0	726.3	625.9	595.0	625.9	726.3	749.0	706.1	645.3	602.4	570.2
27.5°	1330.6	1402.2	1467.8	1474.2	1467.8	1402.2	1330.6	1252.0	1143.8	1012.1	890.9
25°	2457.3	2698.7	2800.4	2786.7	2800.4	2698.7	2457.3	2073.7	1702.3	1547.1	1333.4
22.5°	5421.6	6245.4	6674.8	6689.6	6674.8	6245.4	5421.6	4140.3	3056.6	2459.4	1977.8
20°	11829.9	13818.2	14320.2	14170.4	14320.2	13818.2	11829.9	8600.7	6132.9	3864.1	2826.8
17.5°	24392.0	30273.8	34289.3	34565.7	34289.3	30273.8	24392.0	17275.1	12589.7	7646.1	4643.1
15°	47474.2	58286.1	63892.9	64845.4	63892.9	58286.1	47474.2	35124.5	24444.0	15821.2	9538.8
12.5°	82933.8	99390.3	108546.6	110113.6	108546.6	99390.3	82933.8	63070.7	42109.6	28258.0	17697.0
10°	126500.3	149453.1	164377.5	171114.1	164377.5	149453.1	126500.3	96591.2	69236.8	44762.3	26204.5
7.5°	171202.8	207363.3	236894.1	243589.6	236894.1	207363.3	171202.8	134784.9	97884.5	64906.7	38527.5
5°	226505.9	274991.4	303350.4	309899.7	303350.4	274991.4	226505.9	175575.4	128199.2	84623.6	48799.2
2.5°	267516.3	319646.5	349369.8	365703.8	349369.8	319646.5	267516.3	205259.3	148992.6	97377.3	55184.8
0°	280243.3	327677.9	363411.7	389105.5	363411.7	327677.9	280243.3	214295.7	155114.8	101686.0	57243.7
-2.5°	263017.0	313312.7	339241.3	353686.6	339241.3	313312.7	263017.0	202243.0	147806.5	96627.4	54825.4
-5°	235611.8	281844.7	310121.8	318839.1	310121.8	281844.7	235611.8	185164.2	134461.6	88339.0	49365.3
-7.5°	199707.2	233469.9	254646.7	265324.7	254646.7	233469.9	199707.2	159822.1	114035.6	74984.9	42793.7
-10°	160843.7	186468.0	202263.7	208171.3	202263.7	186468.0	160843.7	125694.2	90017.1	58957.2	32970.7
-12.5°	117807.9	138217.1	150352.2	155033.9	150352.2	138217.1	117807.9	92559.2	65412.0	43591.1	25594.2
-15°	77758.7	92470.7	101805.0	105064.5	101805.0	92470.7	77758.7	61062.6	44633.5	30161.4	16899.6
-17.5°	47129.4	55250.5	61292.9	62817.0	61292.9	55250.5	47129.4	36496.3	27253.1	17744.2	10192.3
-20°	24940.1	28594.6	30635.4	32016.1	30635.4	28594.6	24940.1	18485.1	13974.3	8578.5	6367.1



REPORT NUMBER: P731479 (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°	11823.5	13813.7	14731.0	15431.1	14731.0	13813.7	11823.5	8980.4	6760.0	5424.0	4573.5
-25°	5917.2	6328.9	6508.1	6758.7	6508.1	6328.9	5917.2	5247.6	4480.7	4170.4	3878.8
-27.5°	4150.4	4247.0	4285.1	4315.8	4285.1	4247.0	4150.4	4003.3	3785.4	3658.6	3475.5
-30°	3616.9	3632.8	3630.5	3628.2	3630.5	3632.8	3616.9	3571.6	3483.4	3392.8	3273.5
-32.5°	3385.5	3402.4	3401.2	3399.0	3401.2	3402.4	3385.5	3347.9	3313.1	3243.6	3131.6
-35°	3177.4	3199.4	3210.3	3215.3	3210.3	3199.4	3177.4	3150.2	3107.9	3040.9	2967.2
-37.5°	3070.8	3075.5	3063.1	3048.9	3063.1	3075.5	3070.8	3039.1	2982.2	2882.2	2815.5
-40°	3180.9	3255.5	3330.5	3353.4	3330.5	3255.5	3180.9	3139.9	3056.5	2928.0	2718.4
-42.5°	3264.2	3312.1	3333.7	3326.7	3333.7	3312.1	3264.2	3194.8	2984.4	2757.8	2457.0
-45°	2889.6	3038.2	3126.2	3147.8	3126.2	3038.2	2889.6	2698.4	2409.0	2073.9	1727.7
-47.5°	1965.1	2131.6	2236.4	2270.2	2236.4	2131.6	1965.1	1767.9	1532.9	1285.4	1052.6
-50°	1071.2	1092.2	1099.0	1092.7	1099.0	1092.2	1071.2	1049.2	1026.5	1001.8	974.0
-52.5°	1034.5	1046.9	1054.9	1059.7	1054.9	1046.9	1034.5	1023.2	1011.7	993.2	972.1
-55°	1037.3	1053.3	1062.1	1066.0	1062.1	1053.3	1037.3	1019.0	997.7	960.3	920.3
-57.5°	965.6	983.6	992.3	995.4	992.3	983.6	965.6	945.0	921.7	883.2	841.0
-60°	878.9	895.9	902.5	904.3	902.5	895.9	878.9	860.0	839.1	805.2	765.3
-62.5°	806.5	826.6	835.2	838.4	835.2	826.6	806.5	784.2	760.3	725.3	684.5
-65°	687.5	704.7	710.5	711.2	710.5	704.7	687.5	667.4	644.7	613.0	574.2
-67.5°	534.0	549.4	554.9	555.8	554.9	549.4	534.0	516.0	495.9	470.4	439.3
-70°	357.9	365.4	368.5	368.9	368.5	365.4	357.9	348.1	335.9	319.3	297.0
-72.5°	206.1	210.6	212.0	211.9	212.0	210.6	206.1	200.0	192.2	181.8	167.7
-75°	104.4	108.6	109.6	109.9	109.6	108.6	104.4	99.5	94.1	88.3	82.3
-77.5°	58.6	62.2	62.7	62.8	62.7	62.2	58.6	54.8	51.1	47.5	44.8
-80°	39.2	40.6	40.8	40.8	40.8	40.6	39.2	37.8	36.2	34.5	32.8
-82.5°	29.6	31.3	31.4	31.4	31.4	31.3	29.6	27.9	26.1	24.4	23.4
-85°	22.2	23.5	24.3	25.1	24.3	23.5	22.2	21.0	19.7	18.5	17.6
-87.5°	17.7	18.9	19.6	20.4	19.6	18.9	17.7	16.6	15.5	14.3	13.9
-90°	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.8	1.2	1.6	1.6



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	15.7	13.3	11.0	11.0	11.0	11.0	11.0	10.6	10.2	9.8	9.4
87.5°	2.3	2.6	3.0	3.0	3.0	3.0	3.1	3.5	3.9	4.3	4.7
85°	2.4	2.7	3.1	3.1	3.1	3.1	3.1	3.5	3.9	4.3	4.7
82.5°	2.4	2.8	3.1	3.1	3.1	3.1	3.1	3.5	3.9	4.3	4.7
80°	2.4	2.8	3.1	3.3	3.5	3.6	3.6	3.8	4.1	4.4	4.7
77.5°	2.9	3.0	3.2	3.6	4.0	4.4	4.8	5.1	5.3	5.5	5.5
75°	3.7	3.8	4.1	4.6	4.8	4.7	4.9	5.3	5.7	6.1	6.3
72.5°	6.9	7.1	7.5	8.4	8.9	9.5	9.5	8.9	8.1	7.1	6.3
70°	10.0	11.0	12.8	14.9	16.3	16.9	17.2	16.5	14.4	12.7	10.5
67.5°	11.3	12.6	14.9	17.9	20.4	22.4	25.0	27.4	27.5	25.2	18.0
65°	11.2	13.2	15.5	17.5	20.1	23.6	29.0	32.4	34.7	35.7	29.3
62.5°	9.1	10.7	11.9	13.7	16.2	20.5	27.5	33.1	38.1	39.1	33.0
60°	7.4	7.9	9.0	10.3	11.5	15.3	22.8	30.7	38.9	37.8	33.8
57.5°	7.3	8.0	8.4	8.9	9.3	12.2	17.7	25.3	33.7	33.3	31.0
55°	7.7	8.6	9.3	9.5	9.5	10.9	13.2	17.9	24.7	26.8	25.9
52.5°	9.3	9.9	10.7	11.8	11.9	11.5	11.6	14.2	16.4	19.2	20.8
50°	11.0	11.7	12.1	12.3	13.4	13.6	13.2	13.0	14.4	15.5	16.0
47.5°	16.7	16.5	15.3	15.1	16.1	15.9	15.6	15.5	16.4	15.5	15.4
45°	27.0	25.8	23.3	22.9	22.3	21.8	20.1	21.1	21.2	20.2	17.2
42.5°	50.3	42.7	36.8	37.3	33.9	31.7	29.1	28.9	28.3	26.7	24.9
40°	76.6	75.9	69.0	63.0	57.5	47.2	42.5	38.3	37.0	34.9	34.8
37.5°	109.9	108.5	112.4	109.2	96.2	81.6	65.5	53.0	46.4	51.2	50.0
35°	159.8	161.1	171.4	160.5	150.6	143.0	110.4	79.8	69.2	76.9	71.5
32.5°	227.4	276.1	293.7	263.2	251.2	237.1	190.9	131.8	122.9	118.0	104.7
30°	529.6	483.8	481.7	474.0	455.7	394.6	303.7	300.6	245.9	172.3	148.0
27.5°	869.6	751.9	722.3	794.0	737.0	635.4	575.2	570.5	431.1	297.0	207.8
25°	1309.8	1196.0	1085.9	1145.8	1123.1	942.3	874.7	861.5	744.1	469.2	282.4
22.5°	1820.1	1687.9	1557.1	1507.2	1452.2	1258.8	1145.5	1136.2	1087.8	674.8	422.4
20°	2288.5	2134.5	1967.5	1842.9	1690.2	1501.1	1374.6	1353.9	1223.0	907.4	569.4
17.5°	3283.6	2602.9	2363.7	2168.3	1964.1	1730.4	1652.0	1564.3	1388.8	1107.9	711.0
15°	5110.2	3608.2	2912.4	2547.6	2326.6	2181.5	2025.8	1838.9	1583.1	1266.2	905.4
12.5°	10017.4	5224.7	3583.6	3060.1	2872.7	2671.5	2456.8	2175.6	1828.3	1531.5	1201.8
10°	15347.6	7949.1	4757.6	3743.7	3416.7	3169.8	2841.7	2473.2	2117.1	1826.8	1503.1
7.5°	21620.1	11378.0	5971.3	4318.0	3831.8	3498.8	3108.8	2719.6	2370.2	2097.7	1802.6
5°	26374.4	13760.0	6773.7	4727.8	4129.6	3802.8	3363.1	2934.5	2593.1	2347.5	2092.1
2.5°	28365.9	14845.6	7280.3	5094.8	4392.6	4071.2	3603.2	3120.0	2764.1	2506.3	2251.1
0°	30059.9	15887.9	7708.5	5267.2	4604.7	4268.7	3826.0	3282.8	2907.6	2639.1	2384.8
-2.5°	28085.6	14770.2	7301.2	5149.6	4485.5	4113.5	3784.4	3375.0	2986.9	2688.6	2383.5
-5°	24944.3	12762.6	6798.1	4974.6	4372.6	4036.7	3769.9	3444.7	3050.3	2729.5	2345.9
-7.5°	21688.0	10790.5	6190.7	4753.3	4255.5	3992.9	3781.0	3490.1	3106.0	2802.5	2361.5
-10°	16413.3	8624.7	5678.9	4672.8	4234.8	3968.7	3804.7	3509.4	3155.5	2863.0	2329.2
-12.5°	12908.6	6869.6	5164.6	4631.4	4333.8	4066.6	3845.8	3491.9	3202.8	2912.7	2243.6
-15°	8373.0	5841.3	4892.3	4602.0	4418.2	4116.4	3831.7	3418.7	3118.3	2884.5	2101.2
-17.5°	6401.8	4988.7	4521.2	4344.6	4202.0	4069.4	3728.5	3300.6	2939.5	2603.0	1795.5
-20°	4890.5	4451.0	4193.0	3997.4	3827.3	3661.4	3488.9	3077.1	2712.2	2192.8	1485.2



REPORT NUMBER: P731479 (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°	4254.0	4011.9	3822.3	3624.9	3348.9	3205.2	3039.2	2743.1	2435.9	1770.3	1184.7
-25°	3757.7	3605.8	3492.3	3280.2	2957.9	2755.7	2653.4	2438.4	1999.1	1397.2	932.1
-27.5°	3404.3	3324.5	3233.2	3029.8	2747.5	2498.3	2345.0	2118.3	1571.7	1109.7	872.9
-30°	3170.7	3136.7	3028.1	2841.1	2582.8	2349.4	2101.1	1670.6	1238.3	891.2	826.8
-32.5°	3050.6	2959.0	2825.4	2614.1	2400.2	2187.9	1751.2	1282.0	940.0	845.9	793.4
-35°	2884.8	2728.5	2536.6	2383.1	2239.6	1821.5	1374.3	1001.5	850.7	806.9	764.5
-37.5°	2677.9	2450.7	2307.1	2142.7	1792.7	1403.5	1037.2	875.7	818.4	778.5	719.8
-40°	2506.3	2285.3	1958.3	1663.3	1335.5	1003.4	899.5	846.0	799.9	738.8	665.6
-42.5°	2097.2	1771.4	1475.1	1180.2	950.5	911.1	868.7	824.7	765.0	685.2	608.2
-45°	1459.6	1204.9	978.3	943.7	907.7	876.0	843.7	779.6	703.9	627.5	549.6
-47.5°	991.8	962.9	931.6	903.4	876.3	840.5	779.5	710.9	639.8	567.7	499.1
-50°	950.2	932.0	907.7	871.4	821.2	766.9	706.3	641.0	577.2	514.8	449.5
-52.5°	944.6	901.1	854.0	802.8	748.2	693.1	634.4	579.6	522.7	462.3	401.2
-55°	877.8	830.6	780.5	727.9	673.9	624.5	573.9	521.1	466.0	408.7	357.1
-57.5°	796.5	750.9	704.9	656.8	607.0	557.5	507.7	457.4	409.9	361.4	314.4
-60°	722.3	676.9	632.3	584.5	533.3	484.1	442.2	399.5	356.2	316.5	276.6
-62.5°	643.8	603.4	555.4	506.2	460.7	419.9	380.8	343.1	308.4	273.2	226.7
-65°	534.5	494.1	454.7	417.1	381.5	348.4	315.6	279.4	241.9	205.9	166.5
-67.5°	408.0	377.0	348.0	319.1	287.5	255.8	223.3	191.9	165.1	139.4	109.5
-70°	272.9	247.1	221.9	197.7	177.1	158.0	137.6	116.5	95.1	80.0	66.2
-72.5°	152.8	137.1	122.0	107.7	92.3	82.5	74.3	65.2	55.3	44.4	36.4
-75°	75.9	69.1	62.4	56.8	50.8	44.4	40.7	37.8	35.0	32.5	30.0
-77.5°	42.2	39.5	37.1	35.8	34.3	32.6	30.8	29.0	27.5	26.0	24.4
-80°	31.1	29.4	27.8	26.9	25.9	25.0	24.0	22.8	21.6	20.4	19.5
-82.5°	22.4	21.3	20.2	19.9	19.5	19.0	18.6	17.9	17.3	16.8	16.2
-85°	16.8	15.9	15.1	14.9	14.6	14.3	14.0	13.8	13.5	13.2	12.9
-87.5°	13.5	13.0	12.4	12.1	11.7	11.3	11.0	10.9	10.8	10.7	10.5
-90°	1.6	1.6	1.6	2.0	2.4	2.7	3.1	3.5	3.9	4.3	4.7



REPORT NUMBER: P731479 (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°	9.0	8.6	8.2	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
87.5°	4.7	4.7	4.7	4.7	4.9	5.1	5.3	5.4	5.6	5.8	6.0
85°	4.7	4.7	4.7	4.7	5.1	5.5	5.8	6.1	6.0	6.1	6.1
82.5°	4.7	4.7	4.7	4.7	5.1	5.5	5.9	6.3	6.3	6.3	6.3
80°	4.7	4.7	4.7	4.8	5.2	5.6	6.0	6.3	6.3	6.3	6.3
77.5°	5.3	5.0	4.7	4.8	5.2	5.6	6.0	6.3	6.3	6.3	6.3
75°	6.3	6.0	5.7	5.5	5.5	5.6	6.0	6.3	6.3	6.3	6.3
72.5°	6.3	6.3	6.3	6.3	6.0	6.0	6.1	6.3	6.3	6.3	6.3
70°	8.3	6.7	6.3	6.3	6.3	6.3	6.2	6.4	6.3	6.3	6.3
67.5°	11.8	9.4	7.6	6.5	6.3	6.3	6.3	6.5	6.5	6.3	6.3
65°	20.9	14.1	9.2	7.7	6.7	6.3	6.3	6.6	6.8	6.6	6.3
62.5°	26.9	20.4	14.0	9.6	7.3	6.5	6.3	6.7	7.0	7.0	6.6
60°	29.8	23.5	18.5	13.7	9.3	6.7	6.4	6.8	7.1	7.4	7.0
57.5°	27.6	25.2	21.5	17.2	12.5	8.1	6.5	6.8	7.2	7.5	7.4
55°	23.7	22.0	23.0	19.9	15.3	10.7	7.4	6.9	7.2	7.6	7.8
52.5°	19.8	20.2	21.9	21.5	17.7	13.0	9.4	7.0	7.3	7.6	7.8
50°	16.4	19.3	21.4	21.9	19.7	15.2	11.1	8.3	7.4	7.7	7.8
47.5°	15.8	19.1	21.1	22.7	21.2	17.3	12.8	9.4	7.5	7.8	7.8
45°	18.7	20.2	21.7	22.8	22.6	18.6	14.5	10.3	8.2	7.9	7.8
42.5°	23.2	23.6	23.9	23.3	23.0	19.4	16.0	11.5	8.8	8.0	7.9
40°	31.8	28.6	27.4	27.3	24.2	19.9	16.5	12.7	9.1	8.3	8.0
37.5°	41.8	36.4	32.5	34.6	27.7	21.9	16.7	13.7	10.1	8.9	8.1
35°	59.5	46.7	43.9	45.1	37.0	24.6	16.7	14.3	11.8	9.6	8.3
32.5°	81.0	68.5	65.5	57.5	48.9	28.1	18.4	15.6	13.5	10.4	8.6
30°	119.6	109.3	94.3	71.9	62.7	39.2	22.3	17.2	15.2	11.3	8.9
27.5°	178.7	156.3	130.7	97.7	76.4	52.7	27.3	19.1	17.0	12.4	9.6
25°	241.1	210.4	175.8	131.1	91.4	70.8	32.0	21.2	18.7	13.8	10.3
22.5°	310.6	266.0	225.0	168.6	115.2	91.6	41.7	25.3	20.3	15.3	11.0
20°	380.9	321.8	279.6	210.7	147.9	111.6	57.5	29.2	22.1	16.7	11.7
17.5°	460.8	391.7	343.9	260.4	183.7	133.5	74.4	32.8	24.0	18.1	12.4
15°	620.7	478.0	412.0	314.8	218.1	156.8	92.1	36.2	25.9	19.5	13.1
12.5°	814.6	563.1	483.3	372.5	250.8	181.0	110.1	39.3	27.9	20.8	13.6
10°	1028.0	646.7	556.5	431.9	281.9	205.6	127.8	44.1	31.0	22.2	14.2
7.5°	1251.1	728.1	630.0	491.1	314.6	238.6	163.3	53.0	34.3	23.5	14.7
5°	1454.3	803.2	703.7	561.6	365.0	279.2	202.0	62.2	37.6	24.7	15.1
2.5°	1558.4	868.3	774.2	629.2	413.6	318.0	239.7	71.4	40.9	25.8	15.4
0°	1634.3	929.4	839.9	690.8	460.0	354.8	274.7	80.1	44.0	26.7	15.7
-2.5°	1609.3	945.0	858.1	720.0	508.9	392.3	303.9	103.4	57.4	34.6	19.4
-5°	1559.9	957.8	872.8	744.2	554.1	427.3	328.2	125.4	70.3	42.1	22.8
-7.5°	1538.2	964.1	881.8	763.1	594.7	459.6	347.4	145.6	82.3	49.0	26.1
-10°	1490.2	965.6	883.5	762.3	597.7	472.4	357.8	163.3	93.1	55.2	28.9
-12.5°	1397.7	965.0	884.0	754.4	589.9	467.0	343.9	173.8	102.5	60.4	31.4
-15°	1256.5	962.7	884.1	739.0	577.2	459.0	328.4	180.1	109.8	65.2	33.2
-17.5°	1055.6	958.9	884.4	715.5	559.4	448.2	312.2	184.3	115.9	69.6	35.4
-20°	978.1	933.2	879.7	683.6	536.3	434.7	296.1	186.4	120.5	72.8	37.4



REPORT NUMBER: P731479 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-2S-CV2

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	931.6	888.9	811.5	653.1	512.8	418.4	280.7	186.3	123.6	74.8	38.4
-25°	879.5	842.8	740.3	606.4	492.4	394.3	272.4	183.9	125.2	75.5	38.4
-27.5°	827.2	787.4	674.4	560.0	465.2	373.4	268.1	184.8	125.3	74.8	37.2
-30°	774.6	716.5	619.9	517.7	436.3	346.7	261.1	183.8	124.2	73.3	34.8
-32.5°	736.4	654.7	569.2	484.4	405.1	318.9	245.3	180.7	121.2	70.5	33.5
-35°	689.8	604.9	521.5	449.8	372.5	295.4	226.9	175.4	116.2	65.9	32.2
-37.5°	641.0	558.6	482.9	413.9	339.3	270.5	211.7	161.9	109.3	59.5	30.3
-40°	588.9	513.1	444.8	377.3	309.3	244.2	195.2	147.0	100.4	51.2	27.6
-42.5°	535.4	469.2	404.9	340.3	279.4	224.6	177.5	130.8	86.6	45.4	24.1
-45°	485.2	423.7	363.8	306.6	249.6	204.0	158.1	113.5	71.5	40.6	21.5
-47.5°	433.6	378.5	325.2	272.4	225.8	181.8	137.2	95.9	56.0	34.8	20.6
-50°	384.8	335.8	288.7	243.7	201.3	157.1	115.6	77.7	47.7	27.7	19.4
-52.5°	344.5	297.5	256.0	216.1	173.3	131.0	94.7	59.7	38.8	24.1	18.2
-55°	306.7	262.5	225.4	184.4	143.1	106.7	73.1	48.6	29.1	22.2	16.8
-57.5°	271.9	229.8	189.0	149.3	113.9	82.1	56.4	36.7	25.1	20.1	15.9
-60°	234.5	188.4	148.6	115.7	85.1	60.8	42.0	27.4	22.7	18.2	14.9
-62.5°	183.1	143.6	110.9	82.3	61.1	43.8	29.1	24.7	20.3	16.9	13.8
-65°	132.2	100.9	73.8	57.8	42.0	30.0	26.0	21.9	18.6	15.7	12.8
-67.5°	81.7	65.7	50.6	36.4	30.2	26.4	22.8	19.9	17.1	14.3	12.0
-70°	52.2	39.1	32.9	29.4	25.9	22.8	20.6	18.2	15.6	13.4	11.3
-72.5°	33.5	30.6	27.5	24.6	22.6	20.6	18.6	16.6	14.5	12.5	10.5
-75°	27.4	25.4	23.7	22.1	20.3	18.5	16.9	15.4	13.5	11.6	9.9
-77.5°	22.9	21.6	20.6	19.3	17.7	16.3	15.2	14.2	12.4	10.9	9.4
-80°	18.8	18.0	17.0	15.9	14.9	14.1	13.6	13.0	11.5	10.1	8.9
-82.5°	15.4	14.6	13.8	13.2	12.9	12.5	12.2	11.8	10.5	9.4	8.5
-85°	12.5	12.1	11.8	11.5	11.2	11.0	10.8	10.5	9.6	8.9	8.3
-87.5°	10.3	10.1	9.9	9.6	9.5	9.4	9.3	9.1	8.7	8.3	8.0
-90°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	5.1	5.5	5.9



REPORT NUMBER: P731479 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	7.8	7.4	7.1	6.7	6.3	6.3	6.3
87.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3
85°	6.3	6.3	6.3	6.3	6.3	6.3	6.3
82.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3
80°	6.3	6.3	6.3	6.3	6.3	6.3	6.3
77.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3
75°	6.3	6.3	6.3	6.3	6.3	6.3	6.3
72.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3
70°	6.3	6.3	6.3	6.3	6.3	6.3	6.3
67.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3
65°	6.4	6.4	6.3	6.3	6.3	6.3	6.3
62.5°	6.5	6.5	6.3	6.3	6.3	6.3	6.3
60°	6.6	6.6	6.3	6.3	6.3	6.3	6.3
57.5°	6.9	6.7	6.4	6.3	6.3	6.3	6.3
55°	7.2	6.9	6.6	6.3	6.3	6.3	6.3
52.5°	7.4	7.1	6.8	6.3	6.4	6.3	6.3
50°	7.6	7.2	6.9	6.3	6.4	6.3	6.3
47.5°	7.8	7.4	7.1	6.3	6.4	6.3	6.3
45°	7.8	7.5	7.3	6.5	6.5	6.3	6.3
42.5°	7.8	7.6	7.5	6.6	6.5	6.3	6.3
40°	7.8	7.7	7.6	6.8	6.6	6.3	6.3
37.5°	7.8	7.8	7.7	6.9	6.6	6.3	6.3
35°	7.8	7.8	7.7	7.1	6.7	6.3	6.3
32.5°	7.8	7.8	7.8	7.2	6.8	6.3	6.3
30°	8.0	7.8	7.8	7.3	6.8	6.3	6.3
27.5°	8.2	7.8	7.8	7.4	6.9	6.3	6.3
25°	8.4	7.8	7.8	7.5	7.0	6.3	6.3
22.5°	8.6	7.8	7.8	7.6	7.1	6.3	6.3
20°	8.8	7.9	7.8	7.7	7.2	6.3	6.3
17.5°	9.1	8.1	7.8	7.7	7.3	6.3	6.3
15°	9.4	8.3	7.8	7.7	7.3	6.3	6.3
12.5°	9.7	8.4	7.8	7.8	7.4	6.3	6.3
10°	10.0	8.6	7.8	7.8	7.5	6.3	6.3
7.5°	10.3	8.8	7.8	7.8	7.6	6.3	6.3
5°	10.5	9.0	7.8	7.8	7.7	6.3	6.3
2.5°	10.8	9.2	7.8	7.8	7.7	6.3	6.3
0°	11.0	9.4	7.8	7.8	7.8	6.3	6.3
-2.5°	12.2	9.7	7.9	7.9	7.8	6.3	6.3
-5°	13.4	10.1	8.1	8.0	7.8	6.4	6.3
-7.5°	14.6	10.4	8.2	8.1	7.8	6.4	6.3
-10°	15.6	10.6	8.4	8.2	7.8	6.4	6.3
-12.5°	16.4	10.9	8.5	8.3	7.7	6.5	6.3
-15°	17.1	11.0	8.6	8.4	7.7	6.5	6.3
-17.5°	17.6	11.2	8.8	8.4	7.7	6.5	6.3
-20°	18.1	11.3	8.9	8.5	7.7	6.5	6.3



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 CATALOG NUMBER: EPH-LS-08-0530N-40-80-2S-CV2

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	18.8	11.3	9.0	8.5	7.7	6.6	6.3
-25°	19.0	11.4	9.2	8.5	7.6	6.6	6.3
-27.5°	18.9	11.6	9.3	8.5	7.6	6.6	6.3
-30°	18.3	11.7	9.4	8.5	7.6	6.6	6.3
-32.5°	17.2	11.7	9.6	8.5	7.6	6.6	6.3
-35°	16.8	11.5	9.7	8.4	7.6	6.7	6.3
-37.5°	16.6	11.5	9.8	8.4	7.6	6.7	6.3
-40°	16.3	11.6	9.9	8.3	7.5	6.7	6.3
-42.5°	15.8	11.6	9.9	8.2	7.5	6.7	6.3
-45°	15.2	11.6	9.7	8.0	7.5	6.7	6.3
-47.5°	14.4	11.5	9.6	7.9	7.5	6.7	6.3
-50°	14.1	11.3	9.4	7.9	7.5	6.7	6.3
-52.5°	13.7	11.1	9.2	7.9	7.6	6.7	6.3
-55°	13.2	10.7	8.9	7.9	7.6	6.7	6.3
-57.5°	12.6	10.4	8.7	7.9	7.6	6.6	6.3
-60°	11.9	10.0	8.4	7.9	7.6	6.6	6.3
-62.5°	11.3	9.5	8.3	7.9	7.5	6.6	6.3
-65°	10.7	9.1	8.2	7.9	7.4	6.6	6.3
-67.5°	10.1	8.7	8.2	7.8	7.4	6.6	6.3
-70°	9.4	8.6	8.1	7.8	7.3	6.5	6.3
-72.5°	9.0	8.3	7.9	7.7	7.2	6.5	6.3
-75°	8.6	8.1	7.8	7.5	7.0	6.5	6.3
-77.5°	8.2	7.9	7.7	7.4	6.9	6.5	6.3
-80°	7.8	7.7	7.6	7.3	6.8	6.4	6.3
-82.5°	7.8	7.7	7.4	7.1	6.7	6.4	6.3
-85°	7.8	7.6	7.3	7.0	6.6	6.4	6.3
-87.5°	7.8	7.5	7.2	6.8	6.4	6.3	6.3
-90°	6.3	6.3	6.3	6.3	6.3	6.3	6.3

(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

