

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: P731582 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-57-80-4S-CV1**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731582 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-27)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0530N-57-80-4S-CV1
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 4S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

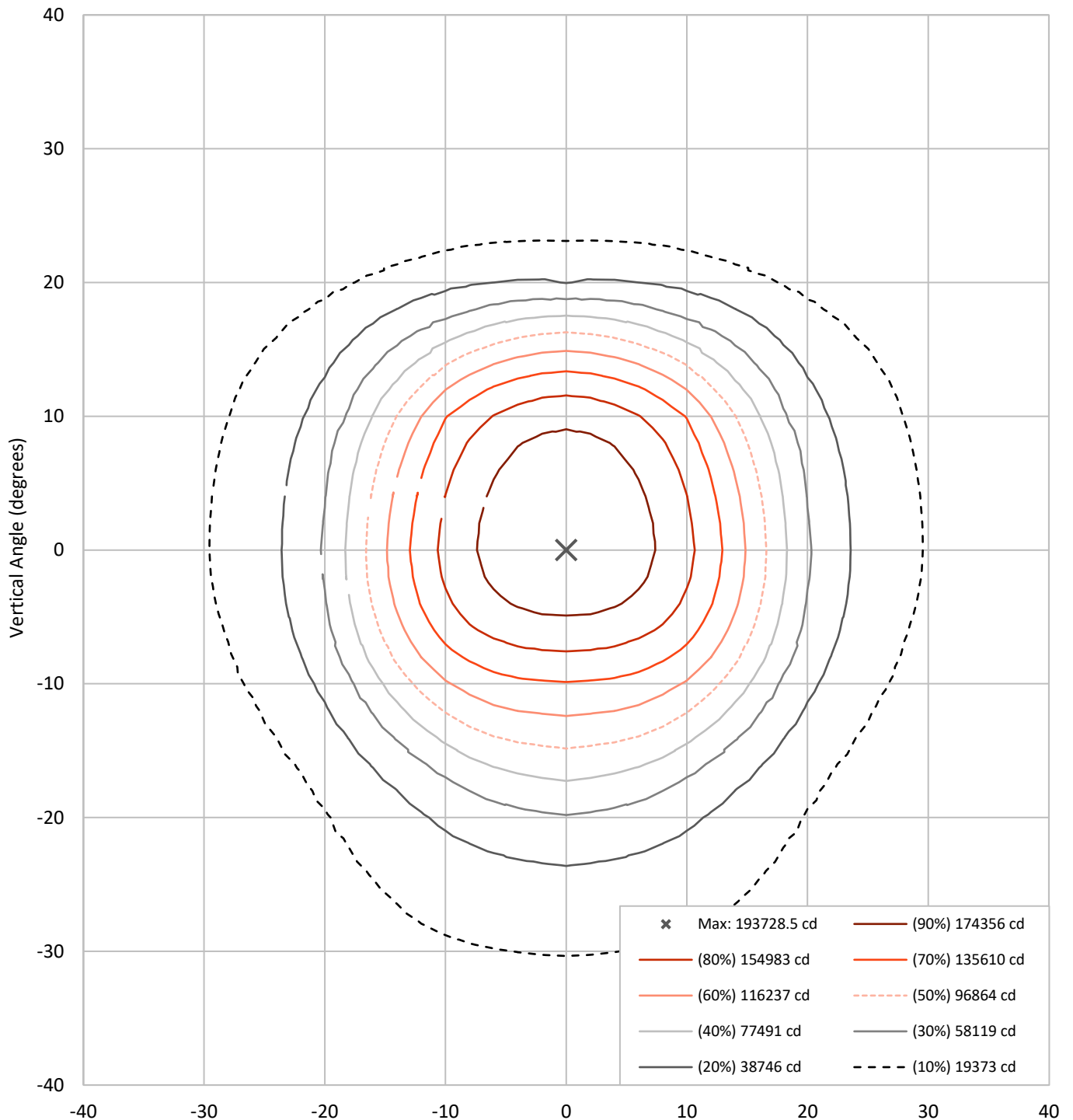
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	66007.3 lumens	Max Intensity:	193728.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	117.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	33.1°H x 31.1°V	Field Angle (10%):	59.1°H x 53.4°V
Beam Lumens:	36075.6 lumens	Field Lumens:	58129.5 lumens
Beam Efficiency:	54.7%	Field Efficiency:	88.1%

Input Watts (W): 559.9
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





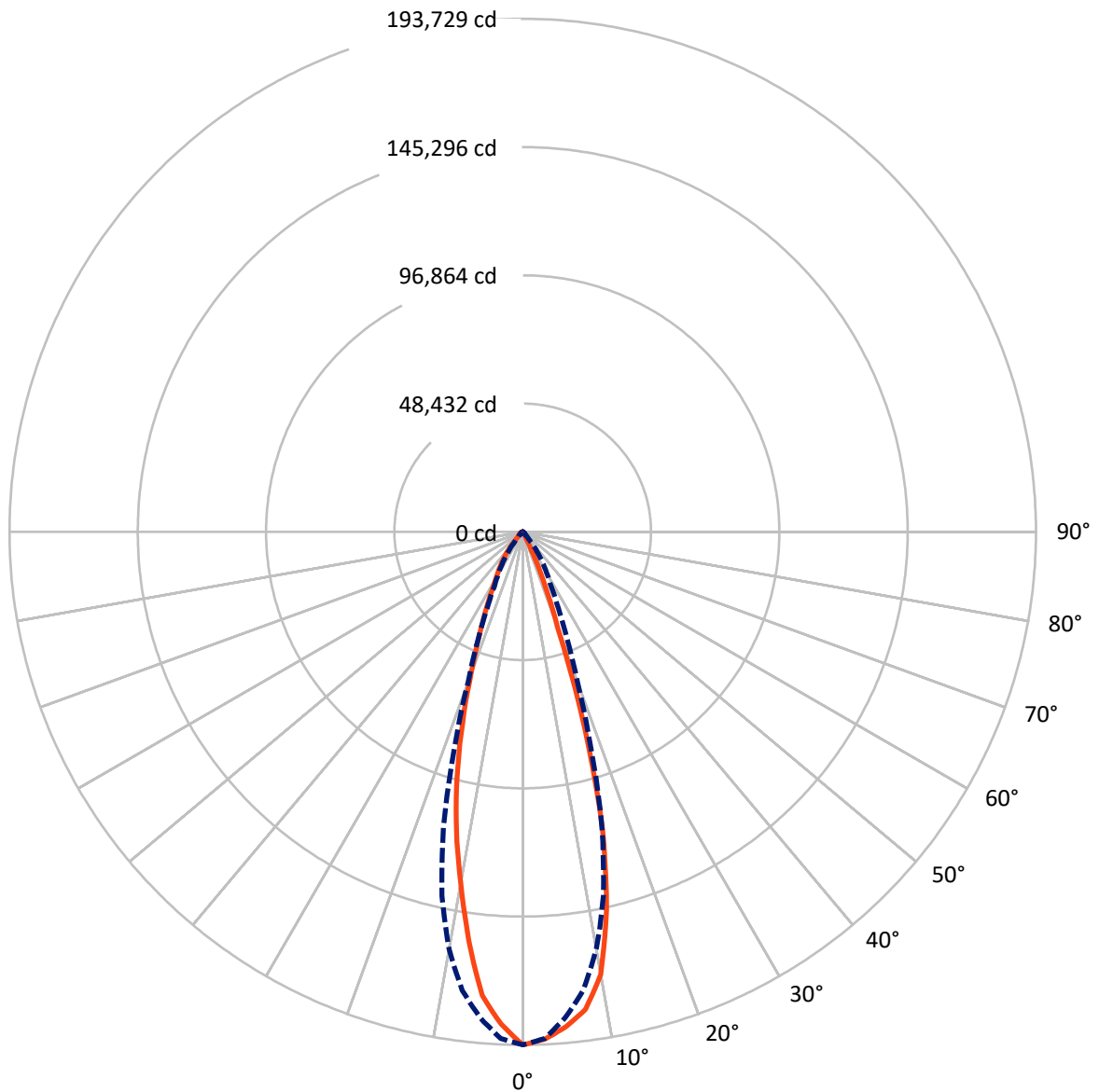
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Lumen Table

90																
80	0.0	0.1		0.3		0.4		0.3		0.4		0.3		0.1		0.0
70																
60	0.1	0.0	0.1	0.4	0.5	0.3	0.2	0.2	0.2	0.2	0.3	0.5	0.4	0.1	0.0	0.1
50		0.1	0.2	0.7	0.7	0.3	0.2	0.2	0.2	0.2	0.3	0.7	0.7	0.2	0.1	
40	0.1	0.1	0.3	0.5	0.5	0.6	0.7	0.7	0.7	0.7	0.6	0.5	0.5	0.3	0.1	0.1
30		0.2	0.7	1.9	3.6	6.2	9.4	11.7	11.7	9.4	6.2	3.6	1.9	0.7	0.2	
20	0.1	0.4	3.2	9.9	39.2	122.3	245.0	397.7	397.7	245.0	122.3	39.2	9.9	3.2	0.4	0.1
10		1.0	7.3	24.0	161.9	553.1	1650.6	3077.3	3077.3	1650.6	553.1	161.9	24.0	7.3	1.0	
0	0.2	1.6	10.1	34.2	252.3	898.6	3081.5	5278.0	5278.0	3081.5	898.6	252.3	34.2	10.1	1.6	0.2
-10		2.1	10.8	35.1	249.1	866.8	2982.6	4912.9	4912.9	2982.6	866.8	249.1	35.1	10.8	2.1	
-20	0.4	2.5	10.3	27.1	148.1	489.8	1505.2	2683.0	2683.0	1505.2	489.8	148.1	27.1	10.3	2.5	0.4
-30		2.5	9.9	20.9	69.7	265.5	611.6	975.8	975.8	611.6	265.5	69.7	20.9	9.9	2.5	
-40	0.3	2.1	8.9	17.8	34.4	98.6	247.0	375.2	375.2	247.0	98.6	34.4	17.8	8.9	2.1	0.3
-50		1.3	6.5	15.3	25.7	39.3	59.7	81.1	81.1	59.7	39.3	25.7	15.3	6.5	1.3	
-60	0.2	0.7	3.3	9.9	19.3	27.9	35.8	41.0	41.0	35.8	27.9	19.3	9.9	3.3	0.7	0.2
-70		0.3	1.2	3.5	7.7	13.0	18.3	21.2	21.2	18.3	13.0	7.7	3.5	1.2	0.3	
-80																
-90	0.1	0.6		2.5		6.2		8.2		6.2		2.5		0.6		0.1

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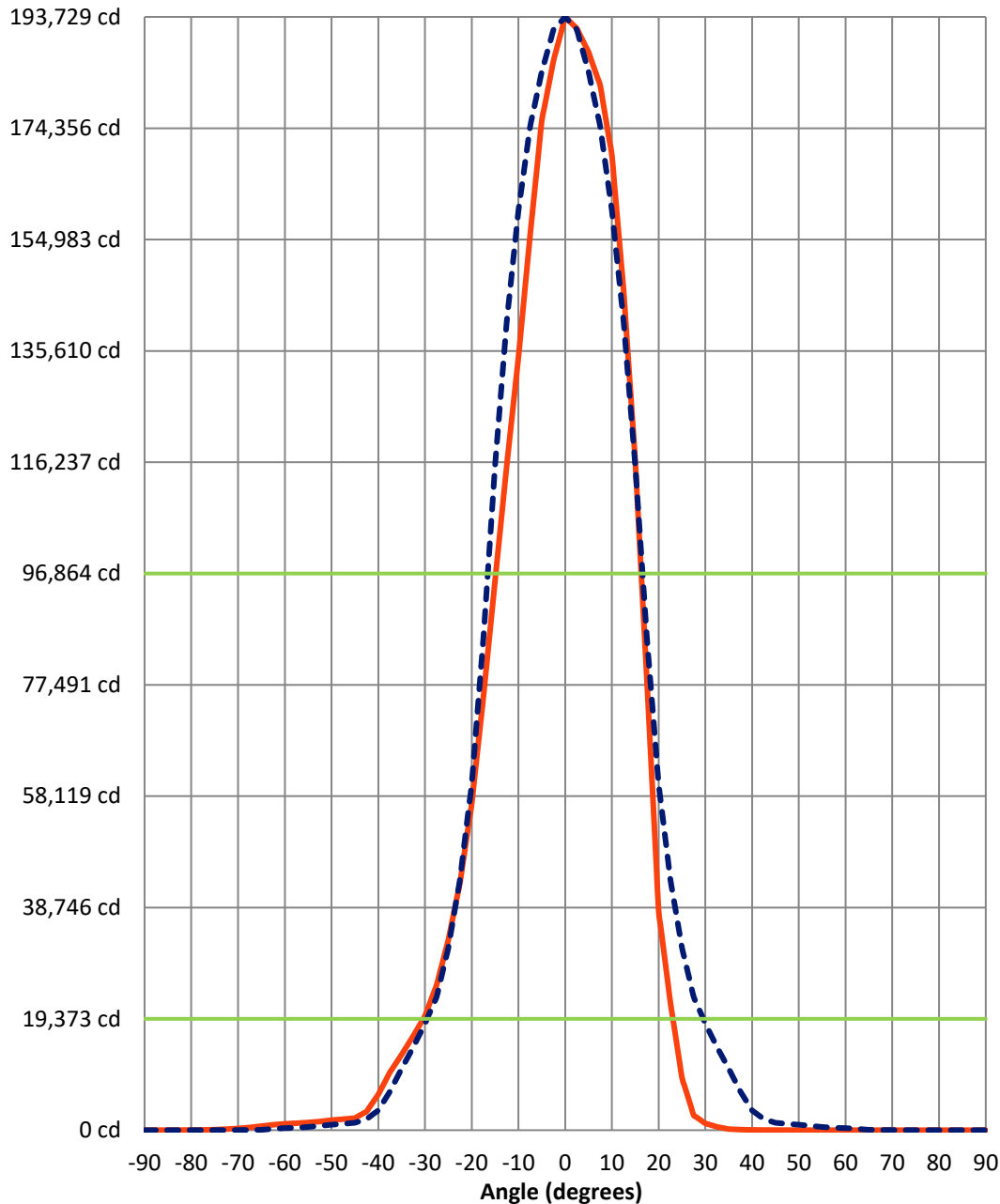
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 33.1°
 V Angle: 31.1°
 Lumens: 36075.6
 Efficiency: 54.7%

Field:
 H Angle: 59.1°
 V Angle: 53.4°
 Lumens: 58129.5
 Efficiency: 88.1%

Spill:
 Lumens: 7877.8
 Efficiency: 11.9%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
87.5°	3.3	2.5	1.8	1.9	1.8	1.8	1.7	1.7	1.7	1.7	1.7
85°	3.3	2.6	2.0	2.0	2.0	1.9	1.7	1.7	1.7	1.7	1.7
82.5°	3.3	2.6	2.1	2.2	2.1	2.0	1.7	1.7	1.7	1.8	1.7
80°	3.3	2.6	2.3	2.3	2.3	2.1	1.8	1.9	2.0	1.9	1.7
77.5°	3.3	2.7	2.4	2.5	2.4	2.2	2.2	2.3	2.3	2.1	1.9
75°	3.3	2.7	2.6	2.7	2.6	2.5	2.6	2.7	2.6	2.5	2.6
72.5°	3.3	2.8	2.7	2.8	2.7	2.7	3.0	3.0	2.9	2.9	3.2
70°	3.3	2.8	2.8	3.0	2.8	3.0	3.3	3.1	3.1	3.3	3.3
67.5°	3.3	2.8	3.0	3.0	3.0	3.2	3.3	3.2	3.3	3.3	3.3
65°	3.3	2.9	3.1	3.1	3.1	3.3	3.3	3.3	3.3	3.3	3.3
62.5°	3.3	2.9	3.2	3.1	3.2	3.3	3.3	3.3	3.3	3.3	3.3
60°	3.3	3.0	3.3	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3
57.5°	3.3	3.0	3.3	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3
55°	3.3	3.0	3.3	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3
52.5°	3.3	3.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
50°	3.3	3.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.3
47.5°	3.3	3.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	5.5
45°	3.3	3.1	3.3	3.3	3.3	3.3	3.3	3.3	3.4	4.3	6.5
42.5°	3.3	3.2	3.3	3.3	3.3	3.3	3.3	3.4	3.5	5.2	7.9
40°	3.3	3.2	3.3	3.3	3.3	3.3	3.3	3.5	3.9	6.1	9.3
37.5°	3.3	3.2	3.3	3.3	3.3	3.3	3.3	3.7	4.7	7.2	10.8
35°	3.3	3.2	3.3	3.3	3.3	3.3	3.3	3.9	5.6	8.5	12.1
32.5°	3.3	3.2	3.3	3.3	3.3	3.3	3.4	4.1	6.4	9.8	13.3
30°	3.3	3.2	3.3	3.3	3.3	3.3	3.5	4.5	7.1	11.0	14.7
27.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.7	5.1	7.9	12.1	16.4
25°	3.3	3.3	3.3	3.3	3.3	3.3	3.9	5.7	8.9	13.4	18.4
22.5°	3.3	3.3	3.3	3.3	3.3	3.3	4.1	6.2	9.7	14.8	22.3
20°	3.3	3.3	3.3	3.3	3.3	3.5	4.3	6.7	10.5	16.3	26.6
17.5°	3.3	3.3	3.3	3.3	3.3	3.6	4.7	7.2	11.3	17.9	31.1
15°	3.3	3.3	3.3	3.3	3.3	3.8	5.0	7.8	11.9	19.5	35.8
12.5°	3.3	3.3	3.3	3.3	3.3	4.0	5.3	8.5	13.0	21.1	40.6
10°	3.3	3.3	3.3	3.3	3.3	4.2	5.6	9.2	14.5	23.9	45.5
7.5°	3.3	3.3	3.3	3.3	3.3	4.4	5.9	9.9	16.0	26.9	50.7
5°	3.3	3.3	3.3	3.3	3.3	4.6	6.2	10.5	17.4	29.8	55.5
2.5°	3.3	3.3	3.3	3.3	3.3	4.8	6.5	11.1	18.8	32.6	59.8
0°	3.3	3.3	3.3	3.3	3.3	5.0	6.7	11.7	20.1	35.1	63.6
-2.5°	3.3	3.3	3.3	3.3	3.4	5.5	8.3	14.8	27.0	47.4	82.0
-5°	3.3	3.3	3.3	3.3	3.6	6.1	9.7	17.8	33.6	59.2	99.4
-7.5°	3.3	3.3	3.3	3.3	3.7	6.5	11.2	20.6	39.7	70.1	115.7
-10°	3.3	3.3	3.3	3.3	3.9	7.0	12.4	23.2	45.2	80.0	130.3
-12.5°	3.3	3.3	3.3	3.3	4.0	7.3	13.6	25.4	49.9	88.4	143.3
-15°	3.3	3.3	3.3	3.3	4.1	7.6	14.5	27.3	53.6	94.9	153.9
-17.5°	3.3	3.3	3.3	3.3	4.1	7.8	15.2	29.1	56.5	99.8	161.8
-20°	3.3	3.3	3.3	3.3	4.2	7.9	15.9	30.7	58.3	102.8	166.6



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 CATALOG NUMBER: EPH-LS-08-0530N-57-80-4S-CV1

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	3.3	3.3	3.3	3.3	4.2	8.0	16.5	31.7	58.9	103.9	168.1
-25°	3.3	3.3	3.3	3.3	4.2	8.0	16.7	32.1	58.3	103.0	166.0
-27.5°	3.3	3.3	3.3	3.3	4.2	8.0	16.6	31.9	56.4	100.7	164.5
-30°	3.3	3.3	3.3	3.3	4.1	7.9	16.2	31.1	55.1	98.3	160.3
-32.5°	3.3	3.3	3.3	3.3	4.2	7.5	15.4	30.4	54.0	94.1	153.0
-35°	3.3	3.3	3.3	3.3	4.2	7.1	14.8	29.4	52.0	87.9	142.8
-37.5°	3.3	3.3	3.3	3.3	4.2	6.7	14.2	27.8	49.0	79.9	130.1
-40°	3.3	3.3	3.3	3.3	4.2	6.7	13.4	25.7	45.1	74.1	117.4
-42.5°	3.3	3.3	3.3	3.3	4.2	6.6	12.3	22.9	41.5	67.6	102.7
-45°	3.3	3.3	3.3	3.4	4.2	6.5	11.0	20.4	37.7	60.2	87.5
-47.5°	3.3	3.3	3.3	3.4	4.3	6.4	9.4	18.5	33.2	52.0	78.2
-50°	3.3	3.3	3.3	3.4	4.3	6.2	9.0	16.3	27.4	45.3	68.0
-52.5°	3.3	3.3	3.3	3.4	4.2	5.9	8.6	13.8	23.2	37.8	57.2
-55°	3.3	3.3	3.3	3.4	4.2	5.7	8.3	11.3	19.7	29.6	47.6
-57.5°	3.3	3.3	3.3	3.4	4.1	5.5	7.8	10.7	16.0	24.4	37.2
-60°	3.3	3.3	3.3	3.4	3.9	5.3	7.3	10.0	12.7	19.9	28.0
-62.5°	3.3	3.3	3.3	3.4	3.9	5.0	6.8	9.3	11.8	15.3	22.8
-65°	3.3	3.3	3.3	3.4	3.8	4.6	6.3	8.4	10.7	13.3	17.4
-67.5°	3.3	3.3	3.3	3.3	3.7	4.3	5.6	7.6	9.6	11.9	14.5
-70°	3.3	3.3	3.3	3.3	3.6	4.1	5.0	6.7	8.6	10.5	12.8
-72.5°	3.3	3.3	3.3	3.3	3.5	3.9	4.5	5.8	7.6	9.4	11.1
-75°	3.3	3.3	3.3	3.3	3.3	3.6	4.2	5.2	6.6	8.2	9.8
-77.5°	3.3	3.3	3.3	3.3	3.3	3.4	3.8	4.7	5.8	7.1	8.6
-80°	3.3	3.3	3.3	3.3	3.3	3.3	3.4	4.1	5.0	6.1	7.2
-82.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.7	4.2	5.0	5.9
-85°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.5	3.9	4.3	4.7
-87.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4	3.6	3.8	4.0
-90°	3.3	2.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7



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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°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.9	2.0	2.2	2.3
80°	1.7	1.7	1.8	1.7	1.8	2.1	2.5	3.0	3.2	3.3	3.3
77.5°	2.1	2.1	2.0	1.8	2.0	2.4	2.8	3.2	3.3	3.3	3.3
75°	2.7	2.6	2.2	1.8	1.9	2.3	2.8	3.2	3.3	3.3	3.3
72.5°	3.1	2.7	2.3	1.9	2.2	2.8	3.1	3.3	4.1	5.1	5.7
70°	3.1	2.7	2.6	2.7	3.0	3.7	5.1	7.0	8.7	9.4	10.1
67.5°	3.2	3.0	3.1	3.5	4.7	6.3	8.4	11.0	13.6	14.6	15.6
65°	3.3	3.2	3.7	4.8	6.5	9.1	11.9	15.0	19.6	21.9	22.9
62.5°	3.3	3.5	4.4	6.3	9.0	12.0	15.9	20.8	26.9	30.8	30.7
60°	3.3	3.7	5.6	8.3	11.4	15.0	20.0	26.9	35.5	41.6	37.5
57.5°	3.3	4.5	7.2	10.2	13.6	17.6	24.5	33.0	40.9	49.1	42.1
55°	3.8	5.7	8.7	11.9	15.9	20.7	27.4	34.2	42.7	45.8	38.3
52.5°	5.1	7.0	9.9	13.7	18.5	22.4	26.1	32.0	35.3	36.8	31.6
50°	6.4	8.4	11.1	15.8	19.9	22.1	22.6	26.4	27.9	26.6	24.1
47.5°	7.8	10.0	12.7	17.3	20.1	21.1	20.3	21.1	21.0	20.7	17.4
45°	9.3	11.8	14.8	17.8	19.9	19.7	19.3	17.0	19.3	18.6	17.1
42.5°	10.8	13.5	16.5	18.6	19.1	20.1	20.0	20.7	20.8	21.7	23.4
40°	12.2	15.1	18.5	19.9	19.4	22.5	27.0	29.3	26.3	31.8	36.5
37.5°	13.5	17.2	21.5	24.9	23.0	29.8	37.2	48.9	50.6	47.0	60.0
35°	14.7	19.6	28.6	36.5	38.5	41.7	62.3	81.0	92.7	85.9	95.8
32.5°	16.4	22.1	38.2	55.5	69.3	73.1	94.7	134.1	157.1	161.0	154.6
30°	19.3	31.1	52.6	79.5	110.2	137.8	156.7	201.8	239.3	280.3	304.6
27.5°	23.6	42.8	75.6	117.3	163.6	215.1	257.9	292.6	361.3	431.1	490.9
25°	28.6	66.4	102.0	164.6	238.2	309.3	368.8	422.1	512.6	621.3	803.3
22.5°	41.0	96.8	145.9	217.8	321.2	411.2	491.5	574.2	684.7	831.2	1211.8
20°	63.2	134.8	196.1	272.6	406.8	517.4	619.3	723.3	861.7	1168.6	2003.5
17.5°	88.7	174.4	244.3	333.0	470.6	611.2	751.1	865.6	1033.3	1486.2	2875.3
15°	116.7	215.1	287.9	388.3	531.0	684.0	840.3	1004.3	1259.9	1909.4	3702.8
12.5°	146.4	256.3	327.2	438.4	587.8	753.3	911.9	1089.5	1464.5	2551.5	4755.7
10°	176.6	297.3	362.6	483.5	640.4	818.3	975.8	1161.2	1624.8	2962.5	5490.9
7.5°	196.0	326.5	391.6	523.6	688.6	878.3	1032.3	1220.4	1760.7	3223.3	6004.8
5°	210.6	341.3	401.1	541.6	720.2	922.1	1076.0	1267.8	1870.1	3350.9	6359.9
2.5°	221.7	353.0	408.8	552.5	739.5	942.5	1089.1	1285.7	1915.4	3428.0	6606.0
0°	229.2	361.4	414.9	558.8	752.9	955.4	1095.9	1295.0	1922.4	3450.0	6726.0
-2.5°	241.8	368.0	427.4	570.1	760.0	959.5	1101.5	1302.3	1950.6	3553.2	6909.3
-5°	251.0	371.9	438.1	577.1	761.0	956.5	1101.5	1300.5	1934.3	3517.3	6678.0
-7.5°	257.2	373.5	446.5	579.4	750.9	935.5	1079.1	1263.5	1832.8	3291.2	6050.0
-10°	261.8	379.0	457.0	575.9	728.7	901.5	1047.4	1218.5	1702.0	2973.3	5322.3
-12.5°	268.8	387.9	467.4	570.7	705.4	862.4	1010.7	1166.2	1543.6	2564.0	4499.6
-15°	272.4	395.2	476.9	564.7	682.6	819.0	969.1	1107.3	1365.9	2070.1	3586.4
-17.5°	272.4	401.3	486.0	558.6	661.5	771.9	927.4	1064.5	1240.7	1766.4	2949.8
-20°	269.0	406.5	494.8	553.1	644.0	742.7	893.4	1034.4	1189.5	1539.0	2318.2



REPORT NUMBER: P731582 (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°	262.1	410.9	500.5	557.5	637.6	730.5	854.5	998.4	1136.3	1296.1	1836.0
-25°	257.5	399.9	501.2	562.0	630.9	717.6	812.6	955.9	1086.6	1240.4	1582.0
-27.5°	254.5	384.7	492.1	563.0	622.5	704.9	788.4	906.0	1048.6	1191.6	1347.7
-30°	246.5	357.2	479.3	557.9	619.1	693.3	771.9	860.6	1004.9	1143.5	1287.3
-32.5°	230.9	328.4	451.1	541.1	613.6	680.5	755.3	835.1	949.3	1092.2	1224.3
-35°	212.7	306.0	416.2	520.0	602.7	667.8	736.2	811.5	895.6	1025.4	1172.3
-37.5°	195.8	280.0	380.5	488.9	575.8	654.6	714.2	785.6	863.8	953.3	1099.9
-40°	175.8	250.4	346.9	449.0	546.4	632.8	700.0	757.2	829.4	920.5	1011.5
-42.5°	153.6	224.8	310.7	408.0	504.4	596.5	683.4	739.3	803.1	888.0	975.1
-45°	135.2	195.8	271.9	362.0	454.8	550.9	639.2	726.5	787.6	855.7	938.5
-47.5°	114.6	165.9	235.6	312.3	400.8	492.1	586.7	677.4	770.7	835.9	900.8
-50°	94.9	140.5	195.3	265.9	343.0	429.0	518.0	617.6	711.5	802.4	877.7
-52.5°	82.4	112.6	161.8	218.8	287.4	362.2	447.2	539.2	636.0	732.6	815.3
-55°	68.9	94.4	128.3	177.0	233.0	298.8	371.7	456.0	543.8	636.3	723.8
-57.5°	56.0	78.0	103.1	137.2	184.7	236.4	299.8	369.2	448.0	529.9	603.0
-60°	42.9	61.7	83.2	108.0	138.1	182.5	227.9	285.3	350.8	416.9	480.7
-62.5°	30.5	45.7	63.8	84.1	107.9	132.0	168.2	210.1	253.6	307.2	360.2
-65°	24.4	31.6	45.0	62.0	80.1	100.9	122.5	144.6	180.1	215.5	249.4
-67.5°	18.0	24.4	31.2	40.1	55.6	71.0	87.8	107.0	126.4	144.5	166.1
-70°	15.2	17.6	22.7	28.9	35.0	42.3	55.8	70.3	85.2	99.4	114.5
-72.5°	13.1	15.3	17.4	19.5	24.3	28.9	33.1	37.0	45.5	57.4	68.8
-75°	11.3	13.0	14.9	16.9	18.4	19.8	21.7	25.3	28.9	32.3	35.5
-77.5°	9.6	10.7	12.2	13.9	15.3	16.2	17.3	18.5	20.1	21.9	23.7
-80°	7.9	8.4	9.2	10.3	11.5	12.5	13.4	14.2	15.1	16.3	17.6
-82.5°	6.3	6.7	7.1	7.4	8.1	8.8	9.7	10.6	11.1	11.7	12.4
-85°	4.9	5.0	5.3	5.5	5.8	6.2	6.6	7.1	7.6	8.0	8.5
-87.5°	4.1	4.1	4.2	4.3	4.3	4.4	4.4	4.5	4.9	5.2	5.7
-90°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7



REPORT NUMBER: P731582 (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°	3.3	3.7	4.2	4.6	5.0	5.4	5.9	6.3	6.7	6.7	6.7
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	2.4	2.4	2.2	2.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7
80°	3.3	3.1	2.9	2.8	2.7	2.6	2.3	2.1	1.7	1.7	1.7
77.5°	3.3	3.3	3.3	3.3	3.3	3.0	2.6	2.2	1.8	1.7	1.7
75°	3.3	3.4	3.7	3.6	3.4	3.2	3.0	3.0	3.0	2.8	2.5
72.5°	6.0	5.9	5.6	5.6	5.4	5.4	5.4	5.2	4.8	4.7	4.7
70°	10.7	11.0	11.0	10.6	9.6	8.6	7.9	7.2	6.5	6.1	5.8
67.5°	16.5	16.6	15.7	14.2	11.8	9.7	8.8	8.0	7.1	6.8	7.2
65°	22.9	20.8	18.3	15.6	12.6	9.9	9.2	8.6	8.1	8.2	8.8
62.5°	28.3	22.9	18.3	15.1	12.4	9.9	9.1	8.4	7.7	7.2	7.1
60°	31.2	22.9	16.5	13.7	11.1	8.8	7.7	7.2	6.9	6.7	6.7
57.5°	31.3	21.7	14.4	11.8	9.5	7.5	6.7	6.7	6.7	6.7	6.7
55°	27.8	18.9	12.3	10.1	8.6	7.4	6.8	7.0	6.9	6.7	7.1
52.5°	21.8	15.6	11.4	9.5	8.8	8.4	8.3	8.2	8.0	7.8	8.1
50°	17.3	13.0	11.0	9.9	9.8	9.9	9.9	10.0	10.3	10.4	10.5
47.5°	14.5	12.2	12.4	11.4	11.8	12.9	13.1	13.3	13.8	13.9	13.6
45°	14.9	17.2	17.7	17.5	17.2	19.6	19.5	17.9	20.0	20.7	20.2
42.5°	24.6	26.6	28.0	29.3	30.7	32.6	33.6	33.0	34.9	34.9	32.7
40°	41.6	39.6	42.8	46.6	50.0	51.2	54.4	57.7	58.9	58.2	56.0
37.5°	68.2	65.2	65.5	74.0	81.8	72.6	86.2	91.6	88.2	100.4	102.8
35°	113.3	125.3	108.0	138.5	153.6	146.2	162.5	194.7	169.8	215.4	226.6
32.5°	201.4	230.2	248.2	274.0	311.9	361.7	374.3	453.7	479.1	515.9	555.6
30°	329.0	410.4	560.0	587.9	624.0	795.8	843.0	886.2	976.6	1046.3	1164.8
27.5°	597.9	817.1	1130.1	1405.6	1385.4	1676.0	1999.3	1637.3	2174.5	1958.9	2474.3
25°	1119.7	1602.8	2357.5	3087.6	3436.1	4028.2	4768.7	4628.5	5605.5	5673.3	7114.4
22.5°	2129.5	3179.3	4333.2	5574.4	6778.6	8111.2	9391.8	10734.2	12752.5	15541.1	18251.4
20°	3484.3	5027.6	6891.3	8813.3	10851.4	12923.9	15331.7	19409.3	23590.1	29393.5	33493.3
17.5°	4952.2	7408.5	9696.4	12077.6	14927.0	18371.9	23352.6	30319.9	38770.9	47445.9	54156.9
15°	6234.5	9013.2	12311.0	15485.6	19028.7	24199.7	32022.4	42342.4	54910.0	68097.9	84045.2
12.5°	7475.1	10377.7	13961.4	17976.9	22791.6	30192.8	40332.9	54279.3	70928.3	90745.7	111228.2
10°	8437.9	11622.7	15611.4	20133.5	26010.1	35100.3	46883.7	63349.3	88020.7	111415.0	134804.5
7.5°	9190.3	12773.0	16998.1	21744.1	28586.6	38822.2	52920.2	73647.4	99714.7	125026.6	146570.1
5°	9859.1	13718.9	17937.5	22651.9	30441.5	41530.3	56711.8	80383.1	108200.4	133077.1	153577.6
2.5°	10385.8	14337.4	18453.6	23106.5	31635.5	43025.2	58711.4	83997.9	113670.1	138230.0	157805.2
0°	10704.8	14447.6	18540.1	23203.2	31726.2	43702.6	60271.7	85579.7	115621.0	140751.7	160004.6
-2.5°	10590.5	14200.6	18259.6	22919.3	31426.9	43067.7	59016.6	84778.2	113967.8	137479.9	156843.2
-5°	10021.2	13392.4	17161.5	21545.8	29441.9	40656.3	55458.9	78950.6	106387.6	129859.7	148080.7
-7.5°	9123.7	12262.9	15723.3	19782.1	26610.3	36744.0	50233.1	70224.3	95131.8	116789.4	133232.9
-10°	8119.5	10953.5	13951.6	17546.6	22884.0	31485.8	42750.1	58014.9	79376.5	98849.3	114396.8
-12.5°	6912.6	9270.4	11790.6	14890.9	18936.2	25948.8	35419.4	47802.2	62654.9	79983.0	94137.5
-15°	5658.2	7640.4	9726.4	12634.5	16084.7	20551.6	27359.2	37203.5	48228.4	60063.7	72906.3
-17.5°	4543.7	6221.9	8433.7	10883.1	13512.7	16621.1	22249.8	28958.7	36937.5	45379.3	53130.1
-20°	3650.0	5429.9	7416.9	9547.0	11963.1	14952.2	18409.9	23507.0	29423.8	35904.2	42113.2



REPORT NUMBER: P731582 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-80-4S-CV1

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3002.6	4598.8	6443.9	8441.9	10886.3	13577.2	16377.5	19576.3	23822.5	28804.7	33574.5
-25°	2286.8	3620.8	5410.7	7425.7	9677.6	12050.5	14323.5	16931.1	20035.3	23277.1	26617.1
-27.5°	1812.7	2754.3	4224.0	6116.3	8199.9	10057.8	12005.2	14176.5	16891.1	19711.4	21569.8
-30°	1479.4	2030.8	3134.0	4612.5	6353.9	7993.5	9592.4	11543.9	13674.9	15699.0	17341.9
-32.5°	1382.1	1628.7	2199.5	3253.2	4561.2	6024.6	7460.1	9202.0	10855.9	12457.8	13870.3
-35°	1313.4	1471.1	1686.4	2236.0	3023.8	4213.1	5524.6	6998.7	8491.5	9785.5	10983.5
-37.5°	1249.3	1386.2	1528.7	1670.5	2114.0	2658.3	3582.0	4747.8	5880.2	6927.4	7958.6
-40°	1157.8	1307.8	1423.0	1544.2	1676.2	1826.0	2309.4	2785.8	3340.1	4143.1	4846.6
-42.5°	1060.8	1185.8	1317.0	1430.5	1540.8	1656.0	1777.9	1899.0	2152.4	2467.4	2725.5
-45°	1020.4	1095.5	1185.7	1304.2	1415.0	1518.5	1617.6	1713.5	1814.8	1907.3	1982.8
-47.5°	971.9	1040.3	1113.2	1190.5	1271.9	1371.7	1469.8	1567.4	1656.0	1738.3	1804.0
-50°	927.1	980.8	1046.0	1111.7	1176.8	1243.8	1311.5	1386.8	1471.4	1554.8	1623.4
-52.5°	890.5	939.7	986.3	1032.9	1089.5	1146.3	1203.2	1263.2	1320.9	1375.6	1418.2
-55°	801.5	870.8	939.0	983.0	1021.2	1059.8	1102.8	1156.6	1207.9	1256.4	1285.0
-57.5°	680.4	760.7	834.4	886.4	939.6	993.4	1037.8	1076.2	1115.0	1152.0	1172.2
-60°	545.8	611.7	678.5	740.4	799.5	855.4	907.2	957.6	1004.3	1043.6	1067.4
-62.5°	412.5	467.3	521.5	573.2	623.0	671.6	726.8	779.9	830.6	871.9	897.3
-65°	287.2	332.0	374.1	414.4	453.0	494.3	537.2	579.0	619.0	650.8	671.7
-67.5°	195.3	223.0	248.0	272.0	301.4	333.1	364.7	393.9	420.8	441.4	456.1
-70°	129.8	144.5	157.8	173.3	192.5	211.8	231.3	249.4	265.9	278.3	287.5
-72.5°	79.8	90.0	99.6	110.0	119.8	130.0	140.6	151.0	161.0	168.2	173.7
-75°	38.5	43.2	51.6	59.3	66.2	72.6	78.5	83.6	88.1	90.9	92.8
-77.5°	26.2	28.4	30.4	32.5	34.7	37.3	39.9	42.4	44.9	46.7	48.4
-80°	18.9	20.0	21.0	21.8	22.5	23.7	24.8	26.0	27.2	27.6	27.9
-82.5°	13.0	13.9	14.8	15.7	16.5	17.3	18.0	18.7	19.4	20.0	20.6
-85°	8.8	9.2	9.7	10.2	10.7	11.3	11.9	12.5	13.0	13.2	13.2
-87.5°	6.1	6.2	6.4	6.5	6.5	7.0	7.4	7.9	8.3	8.4	8.4
-90°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.3	0.9



REPORT NUMBER: P731582 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-80-4S-CV1

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.3
87.5°	1.7	1.7	0.8	0.0	0.8	1.7	1.7	1.7	1.7	1.7	1.7
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.1
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	2.2
75°	2.1	1.7	1.7	1.7	1.7	1.7	2.1	2.5	2.8	3.0	3.0
72.5°	4.8	4.9	4.2	3.3	4.2	4.9	4.8	4.7	4.7	4.8	5.2
70°	5.5	5.1	5.0	5.0	5.0	5.1	5.5	5.8	6.1	6.5	7.2
67.5°	7.7	8.2	8.4	8.4	8.4	8.2	7.7	7.2	6.8	7.1	8.0
65°	9.3	9.9	9.3	8.4	9.3	9.9	9.3	8.8	8.2	8.1	8.6
62.5°	7.0	6.8	6.7	6.7	6.7	6.8	7.0	7.1	7.2	7.7	8.4
60°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.9	7.2
57.5°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
55°	7.6	8.1	8.4	8.4	8.4	8.1	7.6	7.1	6.7	6.9	7.0
52.5°	8.3	8.4	8.4	8.4	8.4	8.4	8.3	8.1	7.8	8.0	8.2
50°	10.4	10.1	10.0	10.0	10.0	10.1	10.4	10.5	10.4	10.3	10.0
47.5°	13.0	12.1	11.7	11.7	11.7	12.1	13.0	13.6	13.9	13.8	13.3
45°	20.3	20.0	19.9	20.1	19.9	20.0	20.3	20.2	20.7	20.0	17.9
42.5°	33.9	34.5	33.9	31.8	33.9	34.5	33.9	32.7	34.9	34.9	33.0
40°	56.1	54.0	51.1	50.2	51.1	54.0	56.1	56.0	58.2	58.9	57.7
37.5°	104.1	104.0	101.6	100.4	101.6	104.0	104.1	102.8	100.4	88.2	91.6
35°	219.0	217.3	205.4	194.1	205.4	217.3	219.0	226.6	215.4	169.8	194.7
32.5°	568.9	599.1	596.3	578.9	596.3	599.1	568.9	555.6	515.9	479.1	453.7
30°	1210.4	1264.4	1253.0	1181.2	1253.0	1264.4	1210.4	1164.8	1046.3	976.6	886.2
27.5°	2501.7	2628.1	2739.5	2593.4	2739.5	2628.1	2501.7	2474.3	1958.9	2174.5	1637.3
25°	8557.2	9380.1	9866.9	9110.3	9866.9	9380.1	8557.2	7114.4	5673.3	5605.5	4628.5
22.5°	20422.5	21448.1	21995.3	22308.0	21995.3	21448.1	20422.5	18251.4	15541.1	12752.5	10734.2
20°	37461.8	39654.8	41059.4	38229.7	41059.4	39654.8	37461.8	33493.3	29393.5	23590.1	19409.3
17.5°	63466.7	71554.3	75812.4	78125.9	75812.4	71554.3	63466.7	54156.9	47445.9	38770.9	30319.9
15°	96352.5	106700.5	113688.4	116424.1	113688.4	106700.5	96352.5	84045.2	68097.9	54910.0	42342.4
12.5°	127446.4	138123.9	144571.3	146192.0	144571.3	138123.9	127446.4	111228.2	90745.7	70928.3	54279.3
10°	149562.6	159623.2	167039.9	169643.6	167039.9	159623.2	149562.6	134804.5	111415.0	88020.7	63349.3
7.5°	161874.7	173634.9	180171.7	181799.0	180171.7	173634.9	161874.7	146570.1	125026.6	99714.7	73647.4
5°	168960.6	179586.2	186731.7	187598.1	186731.7	179586.2	168960.6	153577.6	133077.1	108200.4	80383.1
2.5°	173529.4	183920.9	189932.9	191699.8	189932.9	183920.9	173529.4	157805.2	138230.0	113670.1	83997.9
0°	174650.5	184204.9	191468.1	193728.5	191468.1	184204.9	174650.5	160004.6	140751.7	115621.0	85579.7
-2.5°	171255.9	180473.1	185311.2	186095.6	185311.2	180473.1	171255.9	156843.2	137479.9	113967.8	84778.2
-5°	162587.3	169404.0	174989.2	175703.7	174989.2	169404.0	162587.3	148080.7	129859.7	106387.6	78950.6
-7.5°	144173.6	151820.4	154909.6	155745.6	154909.6	151820.4	144173.6	133232.9	116789.4	95131.8	70224.3
-10°	124581.7	131132.7	133321.1	134502.5	133321.1	131132.7	124581.7	114396.8	98849.3	79376.5	58014.9
-12.5°	105401.3	111807.1	113959.6	115669.6	113959.6	111807.1	105401.3	94137.5	79983.0	62654.9	47802.2
-15°	83911.1	90219.1	93696.7	95621.9	93696.7	90219.1	83911.1	72906.3	60063.7	48228.4	37203.5
-17.5°	62966.7	68957.4	73005.0	75360.1	73005.0	68957.4	62966.7	53130.1	45379.3	36937.5	28958.7
-20°	47743.7	51798.2	54913.0	56761.5	54913.0	51798.2	47743.7	42113.2	35904.2	29423.8	23507.0



REPORT NUMBER: P731582 (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°	37294.9	40103.1	41907.5	43088.5	41907.5	40103.1	37294.9	33574.5	28804.7	23822.5	19576.3
-25°	29148.2	30991.2	32158.2	33113.2	32158.2	30991.2	29148.2	26617.1	23277.1	20035.3	16931.1
-27.5°	23079.2	24067.4	24583.2	25284.6	24583.2	24067.4	23079.2	21569.8	19711.4	16891.1	14176.5
-30°	18553.3	19311.6	19721.5	19873.6	19721.5	19311.6	18553.3	17341.9	15699.0	13674.9	11543.9
-32.5°	14932.4	15648.6	16165.9	16408.5	16165.9	15648.6	14932.4	13870.3	12457.8	10855.9	9202.0
-35°	11913.2	12510.7	12918.5	13142.6	12918.5	12510.7	11913.2	10983.5	9785.5	8491.5	6998.7
-37.5°	8812.6	9468.2	9917.1	10070.7	9917.1	9468.2	8812.6	7958.6	6927.4	5880.2	4747.8
-40°	5406.8	5824.5	6094.1	6207.4	6094.1	5824.5	5406.8	4846.6	4143.1	3340.1	2785.8
-42.5°	2926.6	3079.9	3186.4	3247.6	3186.4	3079.9	2926.6	2725.5	2467.4	2152.4	1899.0
-45°	2031.6	2070.5	2095.0	2104.8	2095.0	2070.5	2031.6	1982.8	1907.3	1814.8	1713.5
-47.5°	1852.1	1894.0	1916.3	1917.4	1916.3	1894.0	1852.1	1804.0	1738.3	1656.0	1567.4
-50°	1677.6	1723.2	1746.2	1748.4	1746.2	1723.2	1677.6	1623.4	1554.8	1471.4	1386.8
-52.5°	1457.0	1493.2	1508.9	1507.5	1508.9	1493.2	1457.0	1418.2	1375.6	1320.9	1263.2
-55°	1309.8	1331.3	1340.9	1341.9	1340.9	1331.3	1309.8	1285.0	1256.4	1207.9	1156.6
-57.5°	1190.4	1206.3	1212.0	1211.4	1212.0	1206.3	1190.4	1172.2	1152.0	1115.0	1076.2
-60°	1088.2	1105.5	1110.3	1107.6	1110.3	1105.5	1088.2	1067.4	1043.6	1004.3	957.6
-62.5°	918.1	934.0	941.9	943.7	941.9	934.0	918.1	897.3	871.9	830.6	779.9
-65°	688.1	700.1	706.3	707.7	706.3	700.1	688.1	671.7	650.8	619.0	579.0
-67.5°	467.4	475.5	478.0	476.8	478.0	475.5	467.4	456.1	441.4	420.8	393.9
-70°	295.0	300.6	302.0	301.2	302.0	300.6	295.0	287.5	278.3	265.9	249.4
-72.5°	178.2	181.5	181.8	180.7	181.8	181.5	178.2	173.7	168.2	161.0	151.0
-75°	93.9	94.4	94.3	93.7	94.3	94.4	93.9	92.8	90.9	88.1	83.6
-77.5°	50.0	51.4	51.0	50.2	51.0	51.4	50.0	48.4	46.7	44.9	42.4
-80°	28.2	28.3	28.4	28.4	28.4	28.3	28.2	27.9	27.6	27.2	26.0
-82.5°	21.2	21.7	20.9	20.1	20.9	21.7	21.2	20.6	20.0	19.4	18.7
-85°	13.3	13.4	13.4	13.4	13.4	13.4	13.3	13.2	13.2	13.0	12.5
-87.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.3	7.9
-90°	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.9	1.3	1.7	1.7



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	5.9	5.4	5.0	4.6	4.2	3.7	3.3	3.3	3.3	3.3	3.3
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	2.0	2.2	2.4	2.4	2.3	2.2	2.0	1.9
80°	2.3	2.6	2.7	2.8	2.9	3.1	3.3	3.3	3.3	3.2	3.0
77.5°	2.6	3.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2
75°	3.0	3.2	3.4	3.6	3.7	3.4	3.3	3.3	3.3	3.3	3.2
72.5°	5.4	5.4	5.4	5.6	5.6	5.9	6.0	5.7	5.1	4.1	3.3
70°	7.9	8.6	9.6	10.6	11.0	11.0	10.7	10.1	9.4	8.7	7.0
67.5°	8.8	9.7	11.8	14.2	15.7	16.6	16.5	15.6	14.6	13.6	11.0
65°	9.2	9.9	12.6	15.6	18.3	20.8	22.9	22.9	21.9	19.6	15.0
62.5°	9.1	9.9	12.4	15.1	18.3	22.9	28.3	30.7	30.8	26.9	20.8
60°	7.7	8.8	11.1	13.7	16.5	22.9	31.2	37.5	41.6	35.5	26.9
57.5°	6.7	7.5	9.5	11.8	14.4	21.7	31.3	42.1	49.1	40.9	33.0
55°	6.8	7.4	8.6	10.1	12.3	18.9	27.8	38.3	45.8	42.7	34.2
52.5°	8.3	8.4	8.8	9.5	11.4	15.6	21.8	31.6	36.8	35.3	32.0
50°	9.9	9.9	9.8	9.9	11.0	13.0	17.3	24.1	26.6	27.9	26.4
47.5°	13.1	12.9	11.8	11.4	12.4	12.2	14.5	17.4	20.7	21.0	21.1
45°	19.5	19.6	17.2	17.5	17.7	17.2	14.9	17.1	18.6	19.3	17.0
42.5°	33.6	32.6	30.7	29.3	28.0	26.6	24.6	23.4	21.7	20.8	20.7
40°	54.4	51.2	50.0	46.6	42.8	39.6	41.6	36.5	31.8	26.3	29.3
37.5°	86.2	72.6	81.8	74.0	65.5	65.2	68.2	60.0	47.0	50.6	48.9
35°	162.5	146.2	153.6	138.5	108.0	125.3	113.3	95.8	85.9	92.7	81.0
32.5°	374.3	361.7	311.9	274.0	248.2	230.2	201.4	154.6	161.0	157.1	134.1
30°	843.0	795.8	624.0	587.9	560.0	410.4	329.0	304.6	280.3	239.3	201.8
27.5°	1999.3	1676.0	1385.4	1405.6	1130.1	817.1	597.9	490.9	431.1	361.3	292.6
25°	4768.7	4028.2	3436.1	3087.6	2357.5	1602.8	1119.7	803.3	621.3	512.6	422.1
22.5°	9391.8	8111.2	6778.6	5574.4	4333.2	3179.3	2129.5	1211.8	831.2	684.7	574.2
20°	15331.7	12923.9	10851.4	8813.3	6891.3	5027.6	3484.3	2003.5	1168.6	861.7	723.3
17.5°	23352.6	18371.9	14927.0	12077.6	9696.4	7408.5	4952.2	2875.3	1486.2	1033.3	865.6
15°	32022.4	24199.7	19028.7	15485.6	12311.0	9013.2	6234.5	3702.8	1909.4	1259.9	1004.3
12.5°	40332.9	30192.8	22791.6	17976.9	13961.4	10377.7	7475.1	4755.7	2551.5	1464.5	1089.5
10°	46883.7	35100.3	26010.1	20133.5	15611.4	11622.7	8437.9	5490.9	2962.5	1624.8	1161.2
7.5°	52920.2	38822.2	28586.6	21744.1	16998.1	12773.0	9190.3	6004.8	3223.3	1760.7	1220.4
5°	56711.8	41530.3	30441.5	22651.9	17937.5	13718.9	9859.1	6359.9	3350.9	1870.1	1267.8
2.5°	58711.4	43025.2	31635.5	23106.5	18453.6	14337.4	10385.8	6606.0	3428.0	1915.4	1285.7
0°	60271.7	43702.6	31726.2	23203.2	18540.1	14447.6	10704.8	6726.0	3450.0	1922.4	1295.0
-2.5°	59016.6	43067.7	31426.9	22919.3	18259.6	14200.6	10590.5	6909.3	3553.2	1950.6	1302.3
-5°	55458.9	40656.3	29441.9	21545.8	17161.5	13392.4	10021.2	6678.0	3517.3	1934.3	1300.5
-7.5°	50233.1	36744.0	26610.3	19782.1	15723.3	12262.9	9123.7	6050.0	3291.2	1832.8	1263.5
-10°	42750.1	31485.8	22884.0	17546.6	13951.6	10953.5	8119.5	5322.3	2973.3	1702.0	1218.5
-12.5°	35419.4	25948.8	18936.2	14890.9	11790.6	9270.4	6912.6	4499.6	2564.0	1543.6	1166.2
-15°	27359.2	20551.6	16084.7	12634.5	9726.4	7640.4	5658.2	3586.4	2070.1	1365.9	1107.3
-17.5°	22249.8	16621.1	13512.7	10883.1	8433.7	6221.9	4543.7	2949.8	1766.4	1240.7	1064.5
-20°	18409.9	14952.2	11963.1	9547.0	7416.9	5429.9	3650.0	2318.2	1539.0	1189.5	1034.4



REPORT NUMBER: P731582 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-80-4S-CV1

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	16377.5	13577.2	10886.3	8441.9	6443.9	4598.8	3002.6	1836.0	1296.1	1136.3	998.4
-25°	14323.5	12050.5	9677.6	7425.7	5410.7	3620.8	2286.8	1582.0	1240.4	1086.6	955.9
-27.5°	12005.2	10057.8	8199.9	6116.3	4224.0	2754.3	1812.7	1347.7	1191.6	1048.6	906.0
-30°	9592.4	7993.5	6353.9	4612.5	3134.0	2030.8	1479.4	1287.3	1143.5	1004.9	860.6
-32.5°	7460.1	6024.6	4561.2	3253.2	2199.5	1628.7	1382.1	1224.3	1092.2	949.3	835.1
-35°	5524.6	4213.1	3023.8	2236.0	1686.4	1471.1	1313.4	1172.3	1025.4	895.6	811.5
-37.5°	3582.0	2658.3	2114.0	1670.5	1528.7	1386.2	1249.3	1099.9	953.3	863.8	785.6
-40°	2309.4	1826.0	1676.2	1544.2	1423.0	1307.8	1157.8	1011.5	920.5	829.4	757.2
-42.5°	1777.9	1656.0	1540.8	1430.5	1317.0	1185.8	1060.8	975.1	888.0	803.1	739.3
-45°	1617.6	1518.5	1415.0	1304.2	1185.7	1095.5	1020.4	938.5	855.7	787.6	726.5
-47.5°	1469.8	1371.7	1271.9	1190.5	1113.2	1040.3	971.9	900.8	835.9	770.7	677.4
-50°	1311.5	1243.8	1176.8	1111.7	1046.0	980.8	927.1	877.7	802.4	711.5	617.6
-52.5°	1203.2	1146.3	1089.5	1032.9	986.3	939.7	890.5	815.3	732.6	636.0	539.2
-55°	1102.8	1059.8	1021.2	983.0	939.0	870.8	801.5	723.8	636.3	543.8	456.0
-57.5°	1037.8	993.4	939.6	886.4	834.4	760.7	680.4	603.0	529.9	448.0	369.2
-60°	907.2	855.4	799.5	740.4	678.5	611.7	545.8	480.7	416.9	350.8	285.3
-62.5°	726.8	671.6	623.0	573.2	521.5	467.3	412.5	360.2	307.2	253.6	210.1
-65°	537.2	494.3	453.0	414.4	374.1	332.0	287.2	249.4	215.5	180.1	144.6
-67.5°	364.7	333.1	301.4	272.0	248.0	223.0	195.3	166.1	144.5	126.4	107.0
-70°	231.3	211.8	192.5	173.3	157.8	144.5	129.8	114.5	99.4	85.2	70.3
-72.5°	140.6	130.0	119.8	110.0	99.6	90.0	79.8	68.8	57.4	45.5	37.0
-75°	78.5	72.6	66.2	59.3	51.6	43.2	38.5	35.5	32.3	28.9	25.3
-77.5°	39.9	37.3	34.7	32.5	30.4	28.4	26.2	23.7	21.9	20.1	18.5
-80°	24.8	23.7	22.5	21.8	21.0	20.0	18.9	17.6	16.3	15.1	14.2
-82.5°	18.0	17.3	16.5	15.7	14.8	13.9	13.0	12.4	11.7	11.1	10.6
-85°	11.9	11.3	10.7	10.2	9.7	9.2	8.8	8.5	8.0	7.6	7.1
-87.5°	7.4	7.0	6.5	6.5	6.4	6.2	6.1	5.7	5.2	4.9	4.5
-90°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.7	1.7
80°	2.5	2.1	1.8	1.7	1.8	1.7	1.7	1.7	1.9	2.0	1.9
77.5°	2.8	2.4	2.0	1.8	2.0	2.1	2.1	1.9	2.1	2.3	2.3
75°	2.8	2.3	1.9	1.8	2.2	2.6	2.7	2.6	2.5	2.6	2.7
72.5°	3.1	2.8	2.2	1.9	2.3	2.7	3.1	3.2	2.9	2.9	3.0
70°	5.1	3.7	3.0	2.7	2.6	2.7	3.1	3.3	3.3	3.1	3.1
67.5°	8.4	6.3	4.7	3.5	3.1	3.0	3.2	3.3	3.3	3.3	3.2
65°	11.9	9.1	6.5	4.8	3.7	3.2	3.3	3.3	3.3	3.3	3.3
62.5°	15.9	12.0	9.0	6.3	4.4	3.5	3.3	3.3	3.3	3.3	3.3
60°	20.0	15.0	11.4	8.3	5.6	3.7	3.3	3.3	3.3	3.3	3.3
57.5°	24.5	17.6	13.6	10.2	7.2	4.5	3.3	3.3	3.3	3.3	3.3
55°	27.4	20.7	15.9	11.9	8.7	5.7	3.8	3.3	3.3	3.3	3.3
52.5°	26.1	22.4	18.5	13.7	9.9	7.0	5.1	3.3	3.3	3.3	3.3
50°	22.6	22.1	19.9	15.8	11.1	8.4	6.4	4.3	3.3	3.3	3.3
47.5°	20.3	21.1	20.1	17.3	12.7	10.0	7.8	5.5	3.3	3.3	3.3
45°	19.3	19.7	19.9	17.8	14.8	11.8	9.3	6.5	4.3	3.4	3.3
42.5°	20.0	20.1	19.1	18.6	16.5	13.5	10.8	7.9	5.2	3.5	3.4
40°	27.0	22.5	19.4	19.9	18.5	15.1	12.2	9.3	6.1	3.9	3.5
37.5°	37.2	29.8	23.0	24.9	21.5	17.2	13.5	10.8	7.2	4.7	3.7
35°	62.3	41.7	38.5	36.5	28.6	19.6	14.7	12.1	8.5	5.6	3.9
32.5°	94.7	73.1	69.3	55.5	38.2	22.1	16.4	13.3	9.8	6.4	4.1
30°	156.7	137.8	110.2	79.5	52.6	31.1	19.3	14.7	11.0	7.1	4.5
27.5°	257.9	215.1	163.6	117.3	75.6	42.8	23.6	16.4	12.1	7.9	5.1
25°	368.8	309.3	238.2	164.6	102.0	66.4	28.6	18.4	13.4	8.9	5.7
22.5°	491.5	411.2	321.2	217.8	145.9	96.8	41.0	22.3	14.8	9.7	6.2
20°	619.3	517.4	406.8	272.6	196.1	134.8	63.2	26.6	16.3	10.5	6.7
17.5°	751.1	611.2	470.6	333.0	244.3	174.4	88.7	31.1	17.9	11.3	7.2
15°	840.3	684.0	531.0	388.3	287.9	215.1	116.7	35.8	19.5	11.9	7.8
12.5°	911.9	753.3	587.8	438.4	327.2	256.3	146.4	40.6	21.1	13.0	8.5
10°	975.8	818.3	640.4	483.5	362.6	297.3	176.6	45.5	23.9	14.5	9.2
7.5°	1032.3	878.3	688.6	523.6	391.6	326.5	196.0	50.7	26.9	16.0	9.9
5°	1076.0	922.1	720.2	541.6	401.1	341.3	210.6	55.5	29.8	17.4	10.5
2.5°	1089.1	942.5	739.5	552.5	408.8	353.0	221.7	59.8	32.6	18.8	11.1
0°	1095.9	955.4	752.9	558.8	414.9	361.4	229.2	63.6	35.1	20.1	11.7
-2.5°	1101.5	959.5	760.0	570.1	427.4	368.0	241.8	82.0	47.4	27.0	14.8
-5°	1101.5	956.5	761.0	577.1	438.1	371.9	251.0	99.4	59.2	33.6	17.8
-7.5°	1079.1	935.5	750.9	579.4	446.5	373.5	257.2	115.7	70.1	39.7	20.6
-10°	1047.4	901.5	728.7	575.9	457.0	379.0	261.8	130.3	80.0	45.2	23.2
-12.5°	1010.7	862.4	705.4	570.7	467.4	387.9	268.8	143.3	88.4	49.9	25.4
-15°	969.1	819.0	682.6	564.7	476.9	395.2	272.4	153.9	94.9	53.6	27.3
-17.5°	927.4	771.9	661.5	558.6	486.0	401.3	272.4	161.8	99.8	56.5	29.1
-20°	893.4	742.7	644.0	553.1	494.8	406.5	269.0	166.6	102.8	58.3	30.7



REPORT NUMBER: P731582 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-80-4S-CV1

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	854.5	730.5	637.6	557.5	500.5	410.9	262.1	168.1	103.9	58.9	31.7
-25°	812.6	717.6	630.9	562.0	501.2	399.9	257.5	166.0	103.0	58.3	32.1
-27.5°	788.4	704.9	622.5	563.0	492.1	384.7	254.5	164.5	100.7	56.4	31.9
-30°	771.9	693.3	619.1	557.9	479.3	357.2	246.5	160.3	98.3	55.1	31.1
-32.5°	755.3	680.5	613.6	541.1	451.1	328.4	230.9	153.0	94.1	54.0	30.4
-35°	736.2	667.8	602.7	520.0	416.2	306.0	212.7	142.8	87.9	52.0	29.4
-37.5°	714.2	654.6	575.8	488.9	380.5	280.0	195.8	130.1	79.9	49.0	27.8
-40°	700.0	632.8	546.4	449.0	346.9	250.4	175.8	117.4	74.1	45.1	25.7
-42.5°	683.4	596.5	504.4	408.0	310.7	224.8	153.6	102.7	67.6	41.5	22.9
-45°	639.2	550.9	454.8	362.0	271.9	195.8	135.2	87.5	60.2	37.7	20.4
-47.5°	586.7	492.1	400.8	312.3	235.6	165.9	114.6	78.2	52.0	33.2	18.5
-50°	518.0	429.0	343.0	265.9	195.3	140.5	94.9	68.0	45.3	27.4	16.3
-52.5°	447.2	362.2	287.4	218.8	161.8	112.6	82.4	57.2	37.8	23.2	13.8
-55°	371.7	298.8	233.0	177.0	128.3	94.4	68.9	47.6	29.6	19.7	11.3
-57.5°	299.8	236.4	184.7	137.2	103.1	78.0	56.0	37.2	24.4	16.0	10.7
-60°	227.9	182.5	138.1	108.0	83.2	61.7	42.9	28.0	19.9	12.7	10.0
-62.5°	168.2	132.0	107.9	84.1	63.8	45.7	30.5	22.8	15.3	11.8	9.3
-65°	122.5	100.9	80.1	62.0	45.0	31.6	24.4	17.4	13.3	10.7	8.4
-67.5°	87.8	71.0	55.6	40.1	31.2	24.4	18.0	14.5	11.9	9.6	7.6
-70°	55.8	42.3	35.0	28.9	22.7	17.6	15.2	12.8	10.5	8.6	6.7
-72.5°	33.1	28.9	24.3	19.5	17.4	15.3	13.1	11.1	9.4	7.6	5.8
-75°	21.7	19.8	18.4	16.9	14.9	13.0	11.3	9.8	8.2	6.6	5.2
-77.5°	17.3	16.2	15.3	13.9	12.2	10.7	9.6	8.6	7.1	5.8	4.7
-80°	13.4	12.5	11.5	10.3	9.2	8.4	7.9	7.2	6.1	5.0	4.1
-82.5°	9.7	8.8	8.1	7.4	7.1	6.7	6.3	5.9	5.0	4.2	3.7
-85°	6.6	6.2	5.8	5.5	5.3	5.0	4.9	4.7	4.3	3.9	3.5
-87.5°	4.4	4.4	4.3	4.3	4.2	4.1	4.1	4.0	3.8	3.6	3.4
-90°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	3.3	3.3	3.3	3.3	3.3	3.3	3.3
87.5°	1.7	1.8	1.8	1.9	1.8	2.5	3.3
85°	1.7	1.9	2.0	2.0	2.0	2.6	3.3
82.5°	1.7	2.0	2.1	2.2	2.1	2.6	3.3
80°	1.8	2.1	2.3	2.3	2.3	2.6	3.3
77.5°	2.2	2.2	2.4	2.5	2.4	2.7	3.3
75°	2.6	2.5	2.6	2.7	2.6	2.7	3.3
72.5°	3.0	2.7	2.7	2.8	2.7	2.8	3.3
70°	3.3	3.0	2.8	3.0	2.8	2.8	3.3
67.5°	3.3	3.2	3.0	3.0	3.0	2.8	3.3
65°	3.3	3.3	3.1	3.1	3.1	2.9	3.3
62.5°	3.3	3.3	3.2	3.1	3.2	2.9	3.3
60°	3.3	3.3	3.3	3.2	3.3	3.0	3.3
57.5°	3.3	3.3	3.3	3.2	3.3	3.0	3.3
55°	3.3	3.3	3.3	3.2	3.3	3.0	3.3
52.5°	3.3	3.3	3.3	3.3	3.3	3.1	3.3
50°	3.3	3.3	3.3	3.3	3.3	3.1	3.3
47.5°	3.3	3.3	3.3	3.3	3.3	3.1	3.3
45°	3.3	3.3	3.3	3.3	3.3	3.1	3.3
42.5°	3.3	3.3	3.3	3.3	3.3	3.2	3.3
40°	3.3	3.3	3.3	3.3	3.3	3.2	3.3
37.5°	3.3	3.3	3.3	3.3	3.3	3.2	3.3
35°	3.3	3.3	3.3	3.3	3.3	3.2	3.3
32.5°	3.4	3.3	3.3	3.3	3.3	3.2	3.3
30°	3.5	3.3	3.3	3.3	3.3	3.2	3.3
27.5°	3.7	3.3	3.3	3.3	3.3	3.3	3.3
25°	3.9	3.3	3.3	3.3	3.3	3.3	3.3
22.5°	4.1	3.3	3.3	3.3	3.3	3.3	3.3
20°	4.3	3.5	3.3	3.3	3.3	3.3	3.3
17.5°	4.7	3.6	3.3	3.3	3.3	3.3	3.3
15°	5.0	3.8	3.3	3.3	3.3	3.3	3.3
12.5°	5.3	4.0	3.3	3.3	3.3	3.3	3.3
10°	5.6	4.2	3.3	3.3	3.3	3.3	3.3
7.5°	5.9	4.4	3.3	3.3	3.3	3.3	3.3
5°	6.2	4.6	3.3	3.3	3.3	3.3	3.3
2.5°	6.5	4.8	3.3	3.3	3.3	3.3	3.3
0°	6.7	5.0	3.3	3.3	3.3	3.3	3.3
-2.5°	8.3	5.5	3.4	3.3	3.3	3.3	3.3
-5°	9.7	6.1	3.6	3.3	3.3	3.3	3.3
-7.5°	11.2	6.5	3.7	3.3	3.3	3.3	3.3
-10°	12.4	7.0	3.9	3.3	3.3	3.3	3.3
-12.5°	13.6	7.3	4.0	3.3	3.3	3.3	3.3
-15°	14.5	7.6	4.1	3.3	3.3	3.3	3.3
-17.5°	15.2	7.8	4.1	3.3	3.3	3.3	3.3
-20°	15.9	7.9	4.2	3.3	3.3	3.3	3.3



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 CATALOG NUMBER: EPH-LS-08-0530N-57-80-4S-CV1

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	16.5	8.0	4.2	3.3	3.3	3.3	3.3
-25°	16.7	8.0	4.2	3.3	3.3	3.3	3.3
-27.5°	16.6	8.0	4.2	3.3	3.3	3.3	3.3
-30°	16.2	7.9	4.1	3.3	3.3	3.3	3.3
-32.5°	15.4	7.5	4.2	3.3	3.3	3.3	3.3
-35°	14.8	7.1	4.2	3.3	3.3	3.3	3.3
-37.5°	14.2	6.7	4.2	3.3	3.3	3.3	3.3
-40°	13.4	6.7	4.2	3.3	3.3	3.3	3.3
-42.5°	12.3	6.6	4.2	3.3	3.3	3.3	3.3
-45°	11.0	6.5	4.2	3.4	3.3	3.3	3.3
-47.5°	9.4	6.4	4.3	3.4	3.3	3.3	3.3
-50°	9.0	6.2	4.3	3.4	3.3	3.3	3.3
-52.5°	8.6	5.9	4.2	3.4	3.3	3.3	3.3
-55°	8.3	5.7	4.2	3.4	3.3	3.3	3.3
-57.5°	7.8	5.5	4.1	3.4	3.3	3.3	3.3
-60°	7.3	5.3	3.9	3.4	3.3	3.3	3.3
-62.5°	6.8	5.0	3.9	3.4	3.3	3.3	3.3
-65°	6.3	4.6	3.8	3.4	3.3	3.3	3.3
-67.5°	5.6	4.3	3.7	3.3	3.3	3.3	3.3
-70°	5.0	4.1	3.6	3.3	3.3	3.3	3.3
-72.5°	4.5	3.9	3.5	3.3	3.3	3.3	3.3
-75°	4.2	3.6	3.3	3.3	3.3	3.3	3.3
-77.5°	3.8	3.4	3.3	3.3	3.3	3.3	3.3
-80°	3.4	3.3	3.3	3.3	3.3	3.3	3.3
-82.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3
-85°	3.3	3.3	3.3	3.3	3.3	3.3	3.3
-87.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3
-90°	1.7	1.7	1.7	1.7	1.7	2.5	3.3

(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

