

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: P731546 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-57-70-1S-CV1**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731546 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-133-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0530N-57-70-1S-CV1
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 70 CRI LEDS AND 1S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

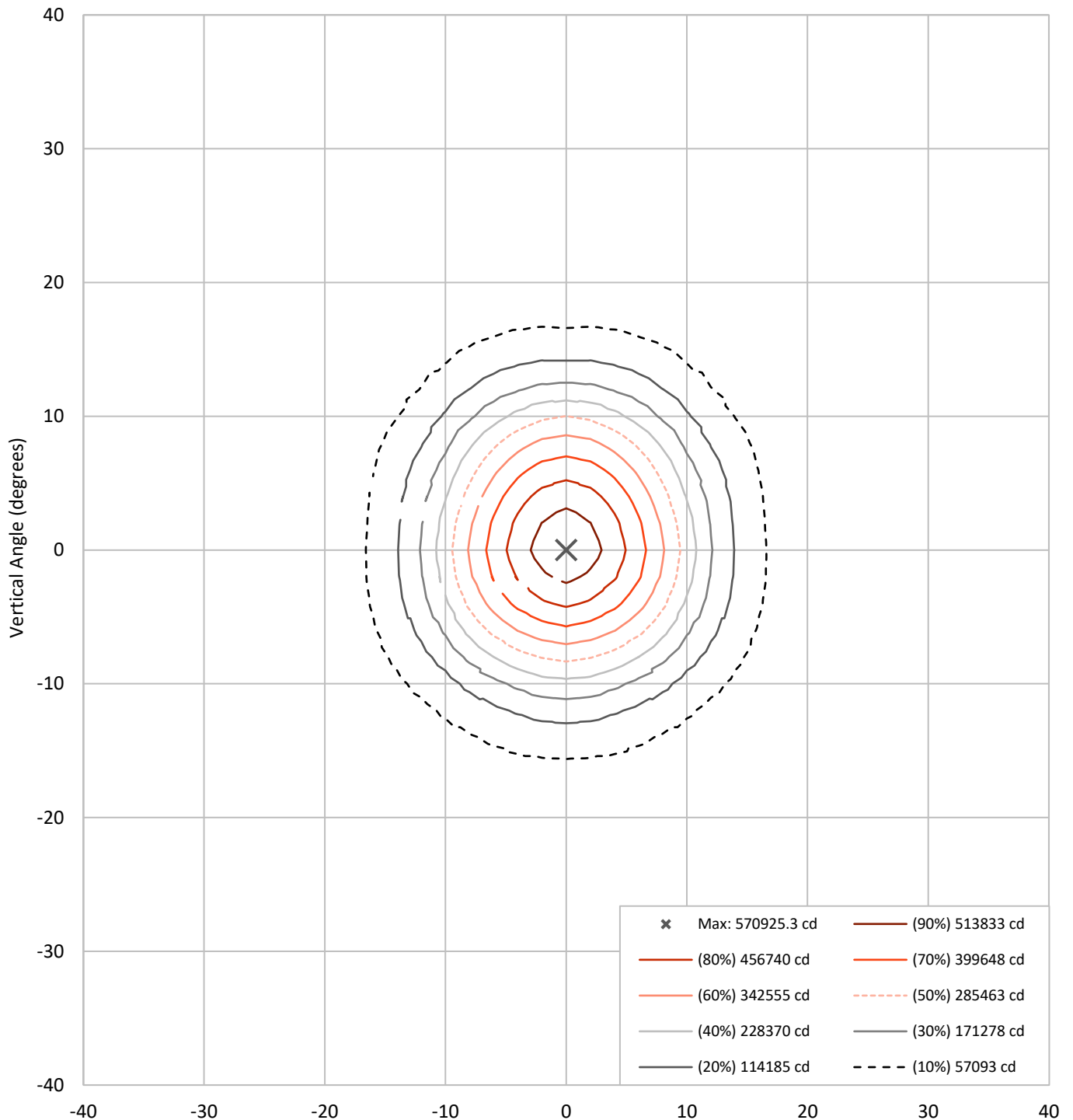
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	68768.9 lumens	Max Intensity:	570925.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	119.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	18.9°H x 18.3°V	Field Angle (10%):	33°H x 31.9°V
Beam Lumens:	32085.5 lumens	Field Lumens:	58276.1 lumens
Beam Efficiency:	46.7%	Field Efficiency:	84.7%

Input Watts (W): 577.1
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





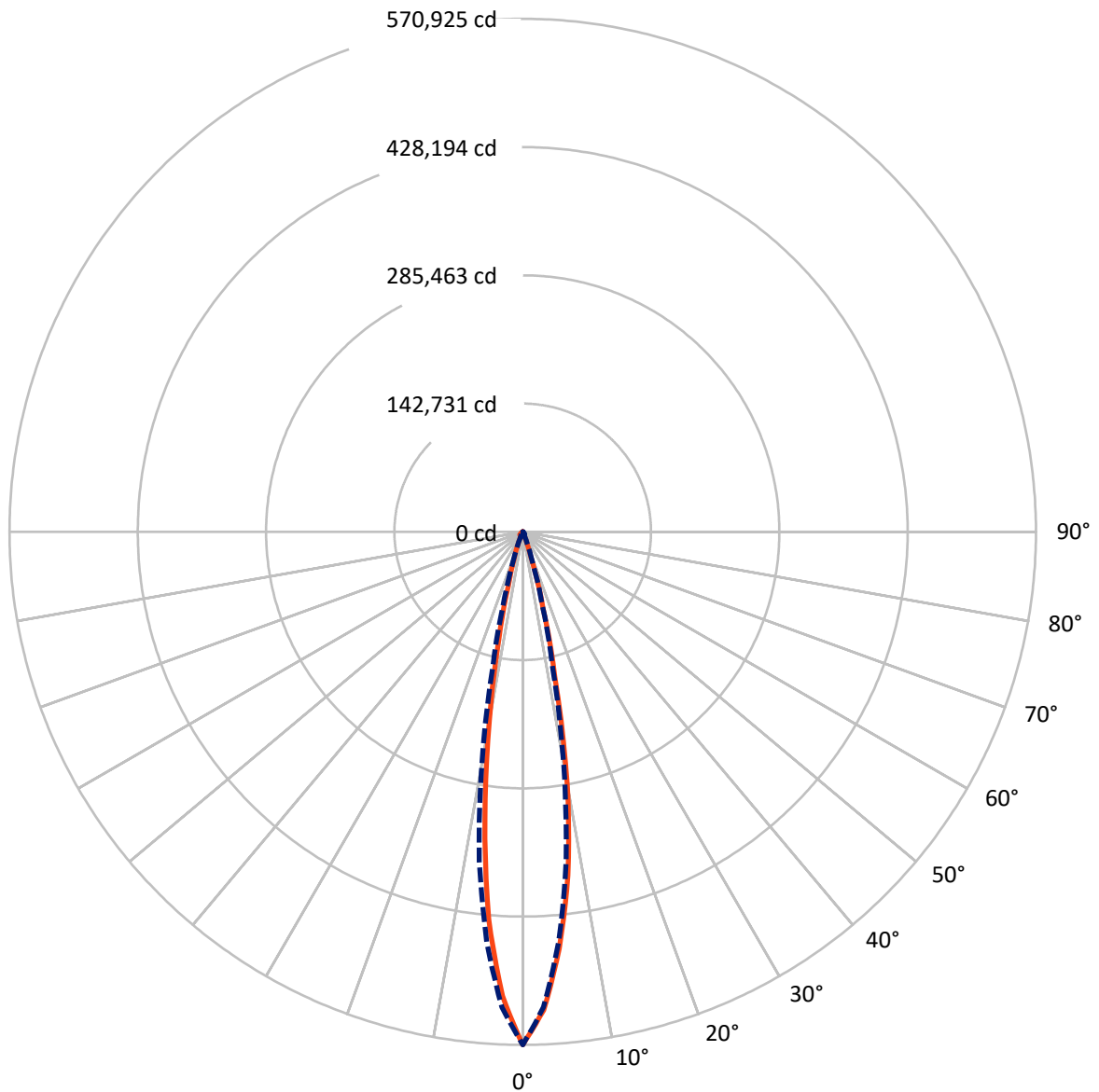
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Lumen Table

90	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.1			
80	0.1	0.1	0.5	0.6	0.4	0.3	0.2	0.2	0.3	0.4	0.6	0.5	0.1	0.1
70	0.1	0.1	0.3	0.6	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.6	0.3	0.1
60		0.1	0.3	0.6	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.6	0.3
50	0.2	0.2	0.4	0.4	0.5	0.8	1.1	0.9	0.9	1.1	0.8	0.5	0.4	0.4
40		0.2	0.4	0.4	0.5	0.8	1.1	0.9	0.9	1.1	0.8	0.5	0.4	0.4
30	0.2	0.3	0.8	1.9	3.8	5.5	7.8	9.6	9.6	7.8	5.5	3.8	1.9	0.8
20		0.2	0.8	1.9	3.8	5.5	7.8	9.6	9.6	7.8	5.5	3.8	1.9	0.8
10	0.3	0.5	3.8	11.9	28.1	38.1	61.0	108.9	108.9	61.0	38.1	28.1	11.9	3.8
0		0.3	3.8	11.9	28.1	38.1	61.0	108.9	108.9	61.0	38.1	28.1	11.9	3.8
-10	0.3	1.9	10.3	46.3	76.9	168.0	2505.8	10821.4	10821.4	2505.8	168.0	76.9	46.3	10.3
-20		0.3	10.3	46.3	76.9	168.0	2505.8	10821.4	10821.4	2505.8	168.0	76.9	46.3	10.3
-30	0.5	2.3	10.8	45.5	76.8	163.2	2397.2	10024.5	10024.5	2397.2	163.2	76.8	45.5	10.8
-40		0.5	10.8	45.5	76.8	163.2	2397.2	10024.5	10024.5	2397.2	163.2	76.8	45.5	10.8
-50	0.5	2.7	10.4	36.4	70.8	89.3	533.9	2001.4	2001.4	533.9	89.3	70.8	36.4	10.4
-60		0.5	10.4	36.4	70.8	89.3	533.9	2001.4	2001.4	533.9	89.3	70.8	36.4	10.4
-70	0.3	2.8	10.1	25.2	70.1	87.9	99.5	171.8	171.8	99.5	87.9	70.1	25.2	10.1
-80		0.3	10.1	25.2	70.1	87.9	99.5	171.8	171.8	99.5	87.9	70.1	25.2	10.1
-90	0.5	2.4	9.2	17.8	49.7	103.1	120.6	124.4	124.4	120.6	103.1	49.7	17.8	9.2
-80		0.5	9.2	17.8	49.7	103.1	120.6	124.4	124.4	120.6	103.1	49.7	17.8	9.2
-70	0.3	1.7	7.0	15.7	26.3	47.4	86.0	116.6	116.6	86.0	47.4	26.3	15.7	7.0
-60		0.3	7.0	15.7	26.3	47.4	86.0	116.6	116.6	86.0	47.4	26.3	15.7	7.0
-50	0.3	0.9	4.1	10.6	20.1	29.3	36.9	41.5	41.5	36.9	29.3	20.1	10.6	4.1
-40		0.3	4.1	10.6	20.1	29.3	36.9	41.5	41.5	36.9	29.3	20.1	10.6	4.1
-30	0.3	0.4	1.4	4.2	8.7	14.2	19.6	22.8	22.8	19.6	14.2	8.7	4.2	1.4
-20		0.3	1.4	4.2	8.7	14.2	19.6	22.8	22.8	19.6	14.2	8.7	4.2	1.4
-10	0.2	0.2	1.1	3.1	7.2	9.7	7.2	3.1	1.1	0.2				
0		0.2	1.1	3.1	7.2	9.7	7.2	3.1	1.1	0.2				
10	0.2	0.2	1.1	3.1	7.2	9.7	7.2	3.1	1.1	0.2				
20		0.2	1.1	3.1	7.2	9.7	7.2	3.1	1.1	0.2				
30	0.2	0.2	1.1	3.1	7.2	9.7	7.2	3.1	1.1	0.2				
40		0.2	1.1	3.1	7.2	9.7	7.2	3.1	1.1	0.2				
50	0.2	0.2	1.1	3.1	7.2	9.7	7.2	3.1	1.1	0.2				
60		0.2	1.1	3.1	7.2	9.7	7.2	3.1	1.1	0.2				
70	0.2	0.2	1.1	3.1	7.2	9.7	7.2	3.1	1.1	0.2				
80		0.2	1.1	3.1	7.2	9.7	7.2	3.1	1.1	0.2				
90	0.2	0.2	1.1	3.1	7.2	9.7	7.2	3.1	1.1	0.2				
80		0.2	1.1	3.1	7.2	9.7	7.2	3.1	1.1	0.2				

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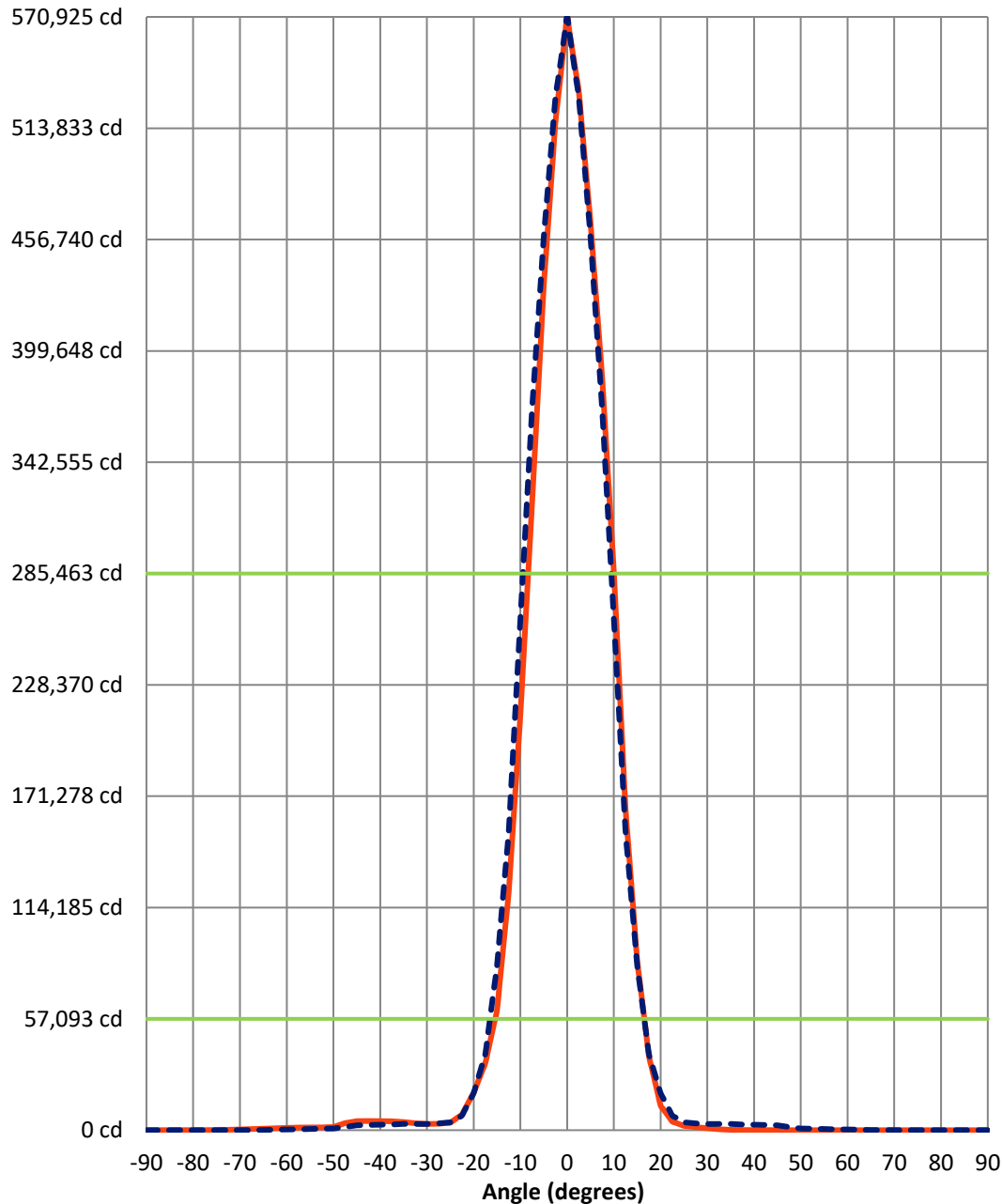
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 18.9°
 V Angle: 18.3°
 Lumens: 32085.5
 Efficiency: 46.7%

Field:
 H Angle: 33°
 V Angle: 31.9°
 Lumens: 58276.1
 Efficiency: 84.7%

Spill:
 Lumens: 10492.8
 Efficiency: 15.3%

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



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	4.1	4.1	4.1	4.8	5.5	6.2	6.9	7.6	8.3	8.9	9.6
87.5°	4.1	4.1	4.1	3.8	3.6	3.3	3.1	3.1	3.0	2.9	2.8
85°	4.1	4.2	4.1	3.9	3.7	3.5	3.5	3.4	3.3	3.1	2.8
82.5°	4.1	4.2	4.1	3.9	3.8	3.8	3.8	3.7	3.5	3.3	3.2
80°	4.1	4.2	4.1	4.0	3.9	4.0	4.1	4.1	4.0	3.9	3.7
77.5°	4.1	4.3	4.1	4.0	4.0	4.2	4.5	4.5	4.5	4.4	4.2
75°	4.1	4.3	4.1	4.0	4.1	4.5	4.9	4.9	4.9	4.5	4.2
72.5°	4.1	4.3	4.1	4.1	4.4	4.8	5.2	5.3	4.9	4.6	4.2
70°	4.1	4.4	4.2	4.1	4.6	5.1	5.5	5.3	5.0	4.6	4.7
67.5°	4.1	4.4	4.2	4.3	4.8	5.4	5.5	5.3	5.0	5.2	5.3
65°	4.1	4.4	4.2	4.5	5.1	5.6	5.6	5.4	5.5	5.7	5.8
62.5°	4.1	4.5	4.2	4.6	5.3	5.7	5.7	5.7	6.0	6.2	6.0
60°	4.1	4.5	4.3	4.8	5.5	5.8	5.8	6.1	6.5	6.5	6.3
57.5°	4.1	4.5	4.4	5.0	5.6	5.9	6.1	6.5	6.9	6.9	6.8
55°	4.1	4.6	4.6	5.1	5.8	6.1	6.4	6.9	7.3	7.3	7.5
52.5°	4.1	4.6	4.7	5.3	5.9	6.2	6.8	7.4	7.7	7.9	8.1
50°	4.1	4.7	4.8	5.4	6.1	6.5	7.1	7.8	8.2	8.5	9.4
47.5°	4.1	4.7	5.0	5.5	6.2	6.8	7.5	8.3	8.7	9.1	10.6
45°	4.1	4.7	5.1	5.7	6.4	7.1	7.9	8.8	9.2	10.1	11.8
42.5°	4.1	4.8	5.2	5.8	6.6	7.3	8.4	9.3	9.7	11.0	14.0
40°	4.1	4.8	5.3	6.0	6.8	7.6	8.8	9.7	10.3	11.9	16.1
37.5°	4.1	4.9	5.5	6.1	7.0	7.9	9.3	10.1	11.2	13.2	18.1
35°	4.1	4.9	5.6	6.3	7.2	8.2	9.8	10.5	12.1	15.2	19.7
32.5°	4.1	5.0	5.7	6.5	7.4	8.6	10.2	10.9	13.0	17.1	21.4
30°	4.1	5.0	5.8	6.7	7.5	8.9	10.5	11.4	14.0	18.9	23.4
27.5°	4.1	5.1	5.9	6.8	7.8	9.3	10.9	12.2	15.1	20.6	25.7
25°	4.1	5.1	6.0	7.0	8.0	9.6	11.2	12.9	16.5	22.4	28.3
22.5°	4.1	5.1	6.1	7.2	8.2	10.0	11.5	13.6	17.8	24.3	32.2
20°	4.1	5.2	6.3	7.3	8.4	10.2	11.8	14.3	19.1	26.4	36.5
17.5°	4.1	5.2	6.3	7.5	8.6	10.4	12.1	15.0	20.2	28.5	41.0
15°	4.1	5.3	6.4	7.6	8.7	10.6	12.3	15.6	21.3	30.7	45.7
12.5°	4.1	5.3	6.5	7.7	8.9	10.7	12.6	16.1	22.3	32.9	50.4
10°	4.1	5.4	6.6	7.9	9.1	10.8	12.9	16.6	23.3	34.9	55.2
7.5°	4.1	5.4	6.7	8.0	9.2	10.9	13.1	17.0	24.1	36.8	59.7
5°	4.1	5.4	6.8	8.1	9.4	11.0	13.4	17.3	24.9	38.5	64.1
2.5°	4.1	5.5	6.8	8.2	9.5	11.0	13.6	17.7	25.6	40.0	68.1
0°	4.1	5.5	6.9	8.3	9.6	11.0	13.8	17.9	26.2	41.3	71.6
-2.5°	4.1	5.5	7.0	8.4	9.8	11.6	15.1	21.3	33.6	54.5	92.1
-5°	4.1	5.6	7.0	8.5	10.1	12.2	16.3	24.6	40.7	67.2	111.6
-7.5°	4.1	5.6	7.1	8.5	10.3	12.7	17.4	27.7	47.3	78.9	129.6
-10°	4.1	5.6	7.1	8.6	10.5	13.2	18.5	30.4	53.3	89.6	145.8
-12.5°	4.1	5.6	7.1	8.6	10.6	13.7	19.4	32.7	58.3	98.9	159.5
-15°	4.1	5.6	7.2	8.7	10.8	14.1	20.2	34.6	63.2	107.3	170.6
-17.5°	4.1	5.6	7.2	8.7	10.9	14.4	20.8	36.7	67.9	114.1	179.2
-20°	4.1	5.6	7.2	8.7	11.0	14.6	21.5	38.8	71.4	119.3	185.1



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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.1	5.6	7.2	8.7	11.0	14.8	22.2	40.0	73.5	122.6	188.1
-25°	4.1	5.6	7.2	8.8	11.0	14.9	22.5	40.3	74.2	124.0	187.9
-27.5°	4.1	5.6	7.2	8.8	11.0	15.0	22.5	39.5	73.3	123.9	188.9
-30°	4.1	5.6	7.2	8.7	10.9	15.0	22.0	37.6	72.0	122.7	187.4
-32.5°	4.1	5.6	7.2	8.7	10.9	14.9	21.0	36.6	69.9	119.3	183.1
-35°	4.1	5.6	7.2	8.7	10.8	14.7	20.5	35.5	66.1	113.7	176.1
-37.5°	4.1	5.5	7.2	8.7	10.7	14.5	20.3	33.7	60.8	105.8	164.9
-40°	4.1	5.5	7.1	8.6	10.6	14.3	19.8	31.1	53.8	97.6	151.9
-42.5°	4.1	5.5	7.1	8.6	10.5	14.1	19.3	27.9	48.6	87.0	136.4
-45°	4.1	5.4	7.1	8.6	10.5	13.8	18.6	25.2	44.0	74.6	119.1
-47.5°	4.1	5.4	7.0	8.6	10.4	13.4	17.7	24.2	38.4	60.9	103.4
-50°	4.1	5.3	7.0	8.5	10.3	13.0	17.1	23.0	31.8	53.2	85.9
-52.5°	4.1	5.3	6.9	8.4	10.2	12.5	16.4	21.6	28.5	44.7	67.7
-55°	4.1	5.2	6.9	8.3	10.1	12.2	15.7	20.1	26.6	35.3	56.7
-57.5°	4.1	5.2	6.8	8.2	10.0	12.0	14.8	19.0	24.5	31.2	44.9
-60°	4.1	5.1	6.7	8.0	9.8	11.7	14.0	17.9	22.4	28.5	35.4
-62.5°	4.1	5.0	6.5	7.8	9.5	11.4	13.6	16.7	21.0	25.6	32.0
-65°	4.1	5.0	6.4	7.7	9.2	11.1	13.1	15.7	19.6	23.7	28.4
-67.5°	4.1	4.9	6.2	7.5	8.8	10.7	12.6	15.0	18.1	22.1	26.0
-70°	4.1	4.8	6.0	7.2	8.5	10.1	12.1	14.4	17.1	20.3	24.1
-72.5°	4.1	4.7	5.7	7.0	8.1	9.5	11.3	13.6	16.1	18.9	22.1
-75°	4.1	4.6	5.5	6.7	7.6	8.8	10.4	12.6	14.9	17.4	20.2
-77.5°	4.1	4.6	5.3	6.4	7.3	8.2	9.4	11.5	13.7	15.9	18.1
-80°	4.1	4.5	5.1	6.0	6.9	7.7	8.4	10.3	12.4	14.4	16.4
-82.5°	4.1	4.4	4.8	5.7	6.6	7.3	8.0	9.4	11.1	12.9	14.8
-85°	4.1	4.3	4.6	5.4	6.2	6.9	7.6	8.8	10.1	11.6	13.1
-87.5°	4.1	4.2	4.3	5.1	5.9	6.6	7.3	8.2	9.2	10.3	11.4
-90°	4.1	4.1	4.1	3.8	3.5	3.1	2.8	2.8	2.8	2.8	2.8



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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°	9.6	9.6	9.6	9.6	10.0	10.3	10.7	11.0	11.4	11.7	12.1
87.5°	2.6	2.5	2.3	2.2	2.0	1.9	1.6	1.4	1.4	1.4	1.4
85°	2.8	2.8	2.8	2.8	2.5	2.3	2.1	2.0	1.9	1.8	1.6
82.5°	3.2	3.1	3.0	2.8	2.7	2.8	2.8	2.8	2.6	2.3	2.2
80°	3.7	3.5	3.3	3.2	3.2	3.2	3.1	2.8	2.8	2.9	3.0
77.5°	3.9	3.8	3.8	3.9	3.9	3.6	3.5	3.5	3.7	3.9	4.0
75°	4.0	4.1	4.2	4.2	4.0	4.0	4.1	4.4	4.6	4.6	4.5
72.5°	4.3	4.5	4.5	4.3	4.4	4.7	5.1	5.4	6.0	6.8	7.5
70°	4.9	5.0	4.9	4.9	5.2	5.8	7.0	8.5	10.0	11.8	14.3
67.5°	5.4	5.2	5.3	5.7	6.6	8.0	9.7	15.2	21.6	24.3	25.1
65°	5.5	5.5	6.0	7.0	8.2	12.5	18.6	26.1	33.1	33.9	32.7
62.5°	5.6	6.1	7.0	9.0	13.1	18.9	25.5	32.6	40.6	40.9	35.9
60°	6.2	6.8	8.9	12.8	17.6	22.9	30.0	35.8	42.4	45.5	34.7
57.5°	6.9	8.1	11.5	16.2	21.0	25.0	28.9	34.8	38.3	38.9	28.6
55°	8.0	9.8	14.2	19.5	23.1	22.2	25.4	28.6	30.0	27.9	19.9
52.5°	9.6	11.8	17.4	22.0	22.7	20.8	20.8	22.4	20.8	17.9	15.6
50°	11.1	15.2	20.3	23.3	22.6	19.8	16.8	16.5	15.9	14.9	13.4
47.5°	13.7	18.5	22.8	24.6	21.7	18.9	15.2	14.7	14.7	14.1	12.9
45°	16.4	21.0	25.5	23.9	21.2	18.4	16.9	15.1	15.1	15.3	16.2
42.5°	19.0	23.1	25.3	23.2	21.4	20.6	20.3	18.1	18.0	21.8	23.1
40°	20.8	24.9	25.3	25.0	23.1	25.0	25.5	25.7	26.9	30.9	32.8
37.5°	22.2	25.6	27.1	29.7	27.9	31.0	32.4	47.4	49.3	41.6	57.1
35°	23.4	26.8	33.7	41.2	43.6	38.8	58.5	79.2	86.3	81.6	99.2
32.5°	24.6	28.6	42.7	60.6	77.0	72.8	92.0	127.8	150.6	162.2	176.2
30°	27.1	37.0	56.7	85.3	127.5	153.0	154.4	192.4	234.3	308.9	376.2
27.5°	31.4	48.0	80.3	132.1	197.3	250.3	260.2	284.7	380.8	521.9	699.5
25°	36.3	74.5	107.5	195.7	291.8	351.5	368.8	410.4	577.2	900.8	1076.2
22.5°	49.8	110.0	153.6	269.9	397.7	449.2	485.4	636.9	938.1	1365.7	1497.4
20°	75.3	151.0	210.7	333.5	504.8	545.9	600.3	925.2	1407.9	1764.0	1943.0
17.5°	105.4	192.4	267.9	396.4	547.1	623.1	738.3	1255.2	1893.1	2148.9	2335.2
15°	139.0	233.8	317.5	451.8	584.5	674.5	954.7	1638.9	2303.6	2515.3	2697.5
12.5°	174.9	274.9	360.2	499.8	621.5	722.3	1151.7	1908.7	2501.0	2800.3	3035.1
10°	212.0	315.3	396.8	541.0	657.3	766.3	1336.1	2139.8	2600.7	2848.6	3107.7
7.5°	235.0	341.0	424.9	575.6	691.5	806.2	1503.1	2332.2	2669.4	2863.6	3055.7
5°	252.2	349.8	432.0	591.2	717.2	835.7	1629.0	2485.2	2713.1	2852.2	2964.8
2.5°	265.3	355.9	436.8	599.6	736.4	850.4	1640.9	2509.3	2699.7	2830.4	2908.1
0°	274.0	359.4	439.3	603.1	751.9	860.6	1616.6	2496.6	2670.1	2805.0	2895.9
-2.5°	283.7	369.9	459.1	613.8	753.3	861.0	1593.5	2471.8	2699.5	2880.7	3031.6
-5°	289.5	378.3	476.0	620.3	750.7	857.6	1541.6	2408.4	2695.8	2886.7	3071.7
-7.5°	292.2	384.7	489.1	622.2	740.0	841.1	1453.5	2257.0	2582.4	2761.0	2989.9
-10°	293.2	393.0	495.2	612.5	719.1	815.4	1336.1	2082.2	2465.2	2628.6	2869.3
-12.5°	296.0	402.9	499.1	602.8	697.8	786.9	1192.6	1890.5	2347.2	2490.9	2736.0
-15°	296.0	410.9	501.8	594.5	677.2	755.9	1024.0	1688.0	2282.7	2516.1	2717.5
-17.5°	293.6	416.9	503.9	588.6	658.2	722.9	837.6	1507.2	2241.9	2570.4	2769.1
-20°	288.8	421.2	505.7	586.2	642.3	707.5	798.7	1305.5	2035.2	2595.0	2837.7



REPORT NUMBER: P731546 (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°	282.1	423.6	507.3	584.4	647.4	709.1	785.8	1077.0	1747.8	2591.9	2839.8
-25°	278.9	411.7	507.1	584.1	655.1	712.3	770.7	859.6	1439.0	2223.1	2764.5
-27.5°	277.6	398.1	498.4	578.3	662.1	717.3	767.9	840.0	1143.5	1781.4	2610.3
-30°	272.2	375.6	485.8	566.9	655.1	723.2	773.0	818.6	902.3	1400.8	2090.7
-32.5°	259.7	352.1	461.7	550.1	638.4	728.7	774.8	814.1	875.8	1023.3	1583.6
-35°	245.1	333.4	433.3	528.6	615.0	709.9	771.9	813.1	853.7	925.0	1179.0
-37.5°	231.9	312.0	404.4	500.5	587.2	676.3	765.3	809.0	849.7	900.8	997.4
-40°	216.1	287.8	377.0	468.3	555.0	640.9	727.1	802.9	843.9	910.2	974.0
-42.5°	197.9	267.4	347.6	435.3	518.3	602.5	686.9	768.1	853.1	919.6	983.4
-45°	177.9	244.3	316.4	396.2	477.7	559.8	641.8	726.2	828.7	930.1	994.0
-47.5°	155.1	218.4	286.9	352.9	431.4	511.9	592.2	680.7	782.3	888.2	1002.3
-50°	131.1	189.6	252.2	312.7	379.5	457.8	536.6	625.6	721.2	823.7	931.2
-52.5°	109.1	157.6	214.0	272.6	330.8	396.1	475.1	559.6	649.0	745.4	839.3
-55°	85.1	128.0	172.8	227.9	285.0	340.4	404.6	483.8	566.3	653.5	738.4
-57.5°	67.1	97.4	135.2	179.0	232.6	288.6	344.0	403.8	476.8	553.9	624.6
-60°	52.4	72.3	99.8	135.6	175.3	226.7	281.5	335.6	392.1	448.4	509.4
-62.5°	38.8	54.1	71.7	95.0	128.3	163.4	209.0	259.5	311.9	358.7	403.0
-65°	34.5	39.0	51.1	67.2	83.7	112.7	144.8	178.6	222.5	263.6	303.6
-67.5°	29.9	34.1	38.1	44.1	58.5	73.0	87.3	115.3	144.6	170.9	199.0
-70°	27.1	29.5	33.0	36.4	39.6	45.8	58.3	70.6	82.3	96.6	118.7
-72.5°	24.5	26.4	28.6	31.1	34.0	36.8	39.7	42.7	50.1	59.8	68.5
-75°	22.0	23.3	24.9	26.7	28.8	30.8	32.8	35.3	37.8	40.6	43.4
-77.5°	19.5	20.6	21.6	22.6	23.9	25.6	27.3	29.0	30.6	32.1	33.6
-80°	17.2	17.9	18.7	19.5	20.4	21.4	22.4	23.5	24.7	25.9	27.2
-82.5°	15.4	15.8	16.3	16.7	17.2	17.6	18.1	18.7	19.4	20.1	20.9
-85°	13.5	13.8	14.1	14.4	14.7	15.0	15.2	15.5	15.7	16.0	16.2
-87.5°	11.5	11.7	11.9	12.0	12.3	12.5	12.8	13.0	13.2	13.3	13.4
-90°	2.5	2.1	1.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	12.4	12.8	13.1	13.5	13.8	14.1	14.5	14.8	15.1	15.1	15.1
87.5°	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.0	0.7
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	2.1	2.0	1.8	1.6	1.4	1.4	1.4	1.4	1.4	1.4	1.4
80°	3.2	3.0	2.8	2.5	2.3	2.2	2.0	1.7	1.4	1.4	1.4
77.5°	4.1	3.9	3.5	3.2	2.9	2.7	2.6	2.6	2.6	2.6	2.7
75°	4.2	4.1	4.3	4.4	4.1	4.0	3.8	3.4	2.9	2.8	2.8
72.5°	8.2	8.4	8.3	8.1	7.5	6.9	6.7	6.4	6.1	6.0	5.9
70°	15.6	15.8	15.1	13.7	11.7	10.2	9.7	9.0	8.2	8.2	8.5
67.5°	23.8	21.8	19.9	17.6	14.8	12.8	12.1	11.4	10.6	10.3	10.2
65°	29.4	23.1	19.7	17.4	16.0	14.4	12.9	11.3	9.9	8.9	8.6
62.5°	29.0	20.3	16.4	14.5	13.1	12.1	10.6	9.3	8.1	7.3	7.2
60°	25.2	16.9	12.6	11.3	10.3	9.6	8.8	8.0	7.3	6.9	6.9
57.5°	19.7	13.1	9.6	9.4	9.1	8.6	8.1	7.7	7.3	6.9	7.2
55°	14.3	11.5	9.7	9.5	9.2	8.7	8.2	8.1	8.0	7.8	8.3
52.5°	12.4	11.3	10.8	10.5	10.0	9.7	9.5	9.5	9.7	9.9	10.1
50°	12.2	11.8	11.4	10.9	10.8	10.9	10.9	11.3	11.7	11.9	11.9
47.5°	12.7	12.5	13.0	12.2	12.5	13.4	13.6	13.9	14.9	15.1	15.1
45°	15.0	16.9	17.5	17.4	17.0	22.1	23.1	21.2	29.1	28.0	21.8
42.5°	23.0	25.5	27.2	32.1	39.4	44.3	57.1	78.5	70.2	52.9	34.1
40°	39.6	38.9	46.3	55.5	61.0	71.0	86.7	107.1	98.8	83.9	89.6
37.5°	69.7	70.6	73.1	85.1	89.5	78.4	101.6	99.9	84.7	108.3	111.1
35°	127.9	141.5	120.2	146.4	152.6	143.2	151.6	167.8	145.1	175.5	185.2
32.5°	230.2	253.7	254.6	260.7	282.4	303.3	309.2	352.7	366.8	403.4	442.8
30°	367.7	411.0	447.9	457.9	486.8	538.5	581.1	664.8	754.5	821.9	910.4
27.5°	662.7	623.5	705.6	805.6	773.7	848.8	1002.6	1123.5	1302.1	1430.8	1500.2
25°	1071.9	1008.2	1157.8	1310.2	1310.5	1323.3	1545.7	1739.6	1885.9	2002.0	2103.8
22.5°	1554.9	1634.3	1768.4	1945.4	1853.2	1937.3	2158.1	2315.6	2520.5	2721.3	3323.0
20°	2096.2	2256.8	2367.2	2340.8	2336.7	2479.7	2673.9	2977.9	3597.6	5782.4	7868.7
17.5°	2573.0	2768.2	2758.5	2647.4	2700.1	2940.1	3292.7	4472.8	7603.6	14699.3	21339.9
15°	2942.8	3029.8	2972.5	2906.1	3024.0	3383.3	4265.2	8081.5	17582.3	28945.2	41915.0
12.5°	3189.9	3155.7	3005.6	3016.5	3296.3	3801.2	6798.5	15730.4	29468.2	45605.1	78213.7
10°	3285.4	3191.9	3060.5	3182.1	3563.9	4779.0	9144.0	21841.0	42610.8	76160.1	120112.2
7.5°	3220.4	3140.7	3103.7	3318.5	3826.6	6329.1	14213.9	30892.3	61078.9	104343.1	166194.8
5°	3178.4	3125.1	3133.1	3408.0	3992.7	7469.0	17797.1	36586.5	75762.6	131597.6	210286.5
2.5°	3175.9	3144.2	3158.2	3470.2	4086.3	8052.4	19815.6	37534.7	80920.5	146422.5	246363.8
0°	3209.9	3189.2	3176.8	3482.5	4041.6	7481.4	19011.3	39058.2	84459.0	153111.1	262037.2
-2.5°	3368.5	3199.4	3192.3	3481.8	4091.0	7906.1	19482.2	38532.1	83181.9	146929.3	245223.7
-5°	3330.5	3139.3	3108.8	3351.9	3920.7	7119.5	17055.9	35585.4	73066.6	124934.7	202121.8
-7.5°	3180.0	3052.3	2998.0	3191.5	3686.1	5975.7	13227.1	28095.1	55020.5	94171.2	145649.9
-10°	3057.6	2973.3	2893.1	3027.1	3403.0	4566.7	8432.1	18848.2	37425.4	64038.3	93519.3
-12.5°	2993.3	2953.4	2808.9	2846.4	3109.0	3625.1	5900.0	12740.1	23437.8	34773.6	56805.1
-15°	2947.8	2917.5	2782.2	2773.3	2920.0	3225.0	3886.8	6608.3	13106.6	21267.4	30012.3
-17.5°	2906.6	2895.5	2823.8	2746.0	2764.3	2941.2	3305.5	4271.9	6702.7	11890.0	17542.4
-20°	2926.4	2932.9	2878.0	2796.8	2767.8	2790.7	2980.0	3313.0	3928.7	6025.7	8586.5



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	2920.1	2938.9	2924.2	2930.0	2895.1	2841.9	2804.4	2949.8	3182.8	3555.6	4502.8
-25°	2919.6	2945.3	3054.6	3194.7	3180.1	3053.1	2920.1	2804.8	2938.2	3099.3	3334.3
-27.5°	2876.4	3043.5	3315.7	3522.2	3581.5	3442.2	3256.1	3062.5	3041.3	3036.2	3126.6
-30°	2862.2	3221.3	3542.5	3836.7	3878.2	3808.1	3721.9	3583.9	3435.9	3353.9	3310.2
-32.5°	2430.2	3299.8	3692.5	3957.2	4022.7	4019.7	4039.0	3973.6	3927.4	3874.4	3799.5
-35°	1845.0	2757.6	3719.0	3841.1	3947.7	4042.8	4170.0	4202.6	4228.3	4257.6	4283.7
-37.5°	1288.4	1999.7	2798.6	3495.5	3717.0	3882.4	4107.8	4273.2	4410.7	4479.0	4560.9
-40°	1067.3	1263.9	1882.8	2471.9	3052.3	3587.6	3830.4	4112.1	4375.7	4522.1	4656.1
-42.5°	1045.4	1115.3	1189.7	1600.6	2091.9	2597.1	3093.4	3543.4	4022.9	4342.6	4577.8
-45°	1052.4	1087.8	1131.2	1203.3	1280.3	1665.9	2081.8	2506.4	3030.3	3542.2	3989.0
-47.5°	1051.5	1083.8	1118.2	1153.1	1199.0	1270.9	1344.8	1465.0	1836.5	2229.3	2609.5
-50°	1015.1	1080.7	1112.7	1145.4	1178.8	1214.3	1251.6	1304.4	1367.2	1426.1	1473.8
-52.5°	923.2	1000.4	1074.7	1136.9	1167.5	1198.7	1231.8	1275.8	1317.0	1355.7	1375.8
-55°	819.2	896.1	971.3	1038.1	1101.2	1161.9	1218.2	1258.5	1299.7	1341.6	1358.8
-57.5°	699.7	777.4	852.0	914.3	977.2	1040.1	1098.5	1154.5	1210.5	1263.4	1293.0
-60°	572.5	637.4	704.1	768.0	829.2	887.4	941.7	994.8	1045.6	1090.1	1118.1
-62.5°	447.6	498.6	555.0	610.4	664.1	716.1	766.2	814.0	859.1	897.1	923.5
-65°	342.6	380.7	419.6	459.5	500.3	545.0	587.1	626.9	664.3	695.1	718.1
-67.5°	232.7	265.7	297.1	326.8	356.7	388.2	420.1	450.2	478.2	500.9	518.9
-70°	139.9	160.4	180.4	201.7	225.8	248.8	271.3	292.7	312.6	328.2	339.9
-72.5°	76.3	83.7	93.6	109.9	125.1	139.1	151.9	163.6	174.0	182.5	189.6
-75°	46.4	50.2	56.2	62.0	67.6	73.0	78.1	82.7	87.0	90.5	93.5
-77.5°	35.5	37.5	39.5	41.3	43.0	44.8	46.6	48.3	49.8	51.2	52.5
-80°	28.4	29.5	30.6	31.6	32.6	33.8	34.9	36.1	37.2	38.0	38.6
-82.5°	21.7	22.7	23.8	24.7	25.5	26.2	26.8	27.4	28.0	28.6	29.2
-85°	16.4	17.2	18.0	18.8	19.6	19.9	20.1	20.3	20.4	20.8	21.2
-87.5°	13.5	13.9	14.3	14.6	15.0	15.3	15.7	16.1	16.5	16.8	17.2
-90°	1.4	1.1	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731546 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-70-1S-CV1

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	14.8
87.5°	0.3	0.0	0.7	1.4	0.7	0.0	0.3	0.7	1.0	1.4	1.3
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.7
77.5°	2.7	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.6	2.6	2.6
75°	2.8	2.8	3.4	4.1	3.4	2.8	2.8	2.8	2.8	2.9	3.4
72.5°	5.7	5.5	5.5	5.5	5.5	5.5	5.7	5.9	6.0	6.1	6.4
70°	9.0	9.4	9.6	9.6	9.6	9.4	9.0	8.5	8.2	8.2	9.0
67.5°	10.0	9.7	8.4	6.9	8.4	9.7	10.0	10.2	10.3	10.6	11.4
65°	8.5	8.4	7.7	6.9	7.7	8.4	8.5	8.6	8.9	9.9	11.3
62.5°	7.0	7.0	6.9	6.9	6.9	7.0	7.0	7.2	7.3	8.1	9.3
60°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	7.3	8.0
57.5°	7.7	8.1	8.3	8.3	8.3	8.1	7.7	7.2	6.9	7.3	7.7
55°	8.9	9.4	9.6	9.6	9.6	9.4	8.9	8.3	7.8	8.0	8.1
52.5°	10.0	9.8	10.1	11.0	10.1	9.8	10.0	10.1	9.9	9.7	9.5
50°	12.0	12.2	12.4	12.4	12.4	12.2	12.0	11.9	11.9	11.7	11.3
47.5°	15.2	15.1	15.0	15.1	15.0	15.1	15.2	15.1	15.1	14.9	13.9
45°	22.6	23.0	23.6	24.8	23.6	23.0	22.6	21.8	28.0	29.1	21.2
42.5°	35.7	36.5	36.9	37.2	36.9	36.5	35.7	34.1	52.9	70.2	78.5
40°	85.0	67.6	50.6	51.0	50.6	67.6	85.0	89.6	83.9	98.8	107.1
37.5°	97.7	88.8	85.3	84.0	85.3	88.8	97.7	111.1	108.3	84.7	99.9
35°	185.0	188.2	184.0	185.9	184.0	188.2	185.0	185.2	175.5	145.1	167.8
32.5°	455.4	473.9	467.3	469.6	467.3	473.9	455.4	442.8	403.4	366.8	352.7
30°	946.1	1002.9	1015.8	1012.1	1015.8	1002.9	946.1	910.4	821.9	754.5	664.8
27.5°	1528.2	1573.3	1582.6	1574.0	1582.6	1573.3	1528.2	1500.2	1430.8	1302.1	1123.5
25°	2160.1	2203.0	2227.2	2215.6	2227.2	2203.0	2160.1	2103.8	2002.0	1885.9	1739.6
22.5°	4019.7	4214.8	4309.9	4439.6	4309.9	4214.8	4019.7	3323.0	2721.3	2520.5	2315.6
20°	11854.7	13202.3	12946.9	12668.7	12946.9	13202.3	11854.7	7868.7	5782.4	3597.6	2977.9
17.5°	29590.9	36216.7	39371.7	38087.4	39371.7	36216.7	29590.9	21339.9	14699.3	7603.6	4472.8
15°	60521.9	79034.6	89858.9	86969.4	89858.9	79034.6	60521.9	41915.0	28945.2	17582.3	8081.5
12.5°	109635.9	139058.1	161598.4	164824.9	161598.4	139058.1	109635.9	78213.7	45605.1	29468.2	15730.4
10°	172419.7	226789.3	271595.5	286224.8	271595.5	226789.3	172419.7	120112.2	76160.1	42610.8	21841.0
7.5°	247254.9	319834.6	371508.8	385871.9	371508.8	319834.6	247254.9	166194.8	104343.1	61078.9	30892.3
5°	307273.8	390803.3	448026.5	465602.8	448026.5	390803.3	307273.8	210286.5	131597.6	75762.6	36586.5
2.5°	352229.7	439844.4	503654.4	532811.0	503654.4	439844.4	352229.7	246363.8	146422.5	80920.5	37534.7
0°	369644.9	457935.5	529488.9	570925.3	529488.9	457935.5	369644.9	262037.2	153111.1	84459.0	39058.2
-2.5°	352608.9	434694.4	489795.3	516966.9	489795.3	434694.4	352608.9	245223.7	146929.3	83181.9	38532.1
-5°	293558.3	366193.1	413710.2	432892.8	413710.2	366193.1	293558.3	202121.8	124934.7	73066.6	35585.4
-7.5°	210341.6	269966.1	305384.7	321547.8	305384.7	269966.1	210341.6	145649.9	94171.2	55020.5	28095.1
-10°	136656.9	169659.8	205371.5	213014.8	205371.5	169659.8	136656.9	93519.3	64038.3	37425.4	18848.2
-12.5°	76989.1	97814.5	115563.2	121968.7	115563.2	97814.5	76989.1	56805.1	34773.6	23437.8	12740.1
-15°	41653.6	53519.0	59912.3	61484.6	59912.3	53519.0	41653.6	30012.3	21267.4	13106.6	6608.3
-17.5°	23914.7	29614.6	32876.1	34373.5	32876.1	29614.6	23914.7	17542.4	11890.0	6702.7	4271.9
-20°	12779.4	15995.5	17831.9	19183.5	17831.9	15995.5	12779.4	8586.5	6025.7	3928.7	3313.0



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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°	5869.8	6861.1	7421.2	8054.3	7421.2	6861.1	5869.8	4502.8	3555.6	3182.8	2949.8
-25°	3538.5	3671.8	3752.2	3817.1	3752.2	3671.8	3538.5	3334.3	3099.3	2938.2	2804.8
-27.5°	3204.2	3247.8	3273.0	3299.4	3273.0	3247.8	3204.2	3126.6	3036.2	3041.3	3062.5
-30°	3272.6	3228.3	3213.0	3196.1	3213.0	3228.3	3272.6	3310.2	3353.9	3435.9	3583.9
-32.5°	3724.2	3638.2	3592.0	3548.6	3592.0	3638.2	3724.2	3799.5	3874.4	3927.4	3973.6
-35°	4273.6	4234.9	4214.6	4188.9	4214.6	4234.9	4273.6	4283.7	4257.6	4228.3	4202.6
-37.5°	4574.7	4567.9	4566.8	4553.9	4566.8	4567.9	4574.7	4560.9	4479.0	4410.7	4273.2
-40°	4671.6	4668.9	4662.2	4655.8	4662.2	4668.9	4671.6	4656.1	4522.1	4375.7	4112.1
-42.5°	4640.4	4681.9	4701.9	4702.6	4701.9	4681.9	4640.4	4577.8	4342.6	4022.9	3543.4
-45°	4273.8	4485.5	4608.8	4642.0	4608.8	4485.5	4273.8	3989.0	3542.2	3030.3	2506.4
-47.5°	2947.9	3246.6	3476.8	3621.6	3476.8	3246.6	2947.9	2609.5	2229.3	1836.5	1465.0
-50°	1515.4	1554.3	1593.5	1631.8	1593.5	1554.3	1515.4	1473.8	1426.1	1367.2	1304.4
-52.5°	1391.9	1408.1	1418.3	1423.9	1418.3	1408.1	1391.9	1375.8	1355.7	1317.0	1275.8
-55°	1374.3	1389.3	1396.7	1399.1	1396.7	1389.3	1374.3	1358.8	1341.6	1299.7	1258.5
-57.5°	1318.4	1339.4	1352.0	1357.8	1352.0	1339.4	1318.4	1293.0	1263.4	1210.5	1154.5
-60°	1141.5	1160.2	1172.8	1180.1	1172.8	1160.2	1141.5	1118.1	1090.1	1045.6	994.8
-62.5°	945.4	962.8	972.4	976.3	972.4	962.8	945.4	923.5	897.1	859.1	814.0
-65°	737.2	752.2	767.4	779.4	767.4	752.2	737.2	718.1	695.1	664.3	626.9
-67.5°	534.0	546.1	559.4	570.1	559.4	546.1	534.0	518.9	500.9	478.2	450.2
-70°	349.1	355.7	366.6	375.9	366.6	355.7	349.1	339.9	328.2	312.6	292.7
-72.5°	195.2	199.5	207.5	214.8	207.5	199.5	195.2	189.6	182.5	174.0	163.6
-75°	96.0	98.0	98.8	99.1	98.8	98.0	96.0	93.5	90.5	87.0	82.7
-77.5°	53.7	54.8	55.0	55.1	55.0	54.8	53.7	52.5	51.2	49.8	48.3
-80°	39.2	39.7	40.5	41.3	40.5	39.7	39.2	38.6	38.0	37.2	36.1
-82.5°	29.7	30.2	30.3	30.3	30.3	30.2	29.7	29.2	28.6	28.0	27.4
-85°	21.6	22.0	22.0	22.0	22.0	22.0	21.6	21.2	20.8	20.4	20.3
-87.5°	17.5	17.9	17.9	17.9	17.9	17.9	17.5	17.2	16.8	16.5	16.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	14.5	14.1	13.8	13.5	13.1	12.8	12.4	12.1	11.7	11.4	11.0
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.8	1.9	2.0
82.5°	1.4	1.4	1.4	1.6	1.8	2.0	2.1	2.2	2.3	2.6	2.8
80°	2.0	2.2	2.3	2.5	2.8	3.0	3.2	3.0	2.9	2.8	2.8
77.5°	2.6	2.7	2.9	3.2	3.5	3.9	4.1	4.0	3.9	3.7	3.5
75°	3.8	4.0	4.1	4.4	4.3	4.1	4.2	4.5	4.6	4.6	4.4
72.5°	6.7	6.9	7.5	8.1	8.3	8.4	8.2	7.5	6.8	6.0	5.4
70°	9.7	10.2	11.7	13.7	15.1	15.8	15.6	14.3	11.8	10.0	8.5
67.5°	12.1	12.8	14.8	17.6	19.9	21.8	23.8	25.1	24.3	21.6	15.2
65°	12.9	14.4	16.0	17.4	19.7	23.1	29.4	32.7	33.9	33.1	26.1
62.5°	10.6	12.1	13.1	14.5	16.4	20.3	29.0	35.9	40.9	40.6	32.6
60°	8.8	9.6	10.3	11.3	12.6	16.9	25.2	34.7	45.5	42.4	35.8
57.5°	8.1	8.6	9.1	9.4	9.6	13.1	19.7	28.6	38.9	38.3	34.8
55°	8.2	8.7	9.2	9.5	9.7	11.5	14.3	19.9	27.9	30.0	28.6
52.5°	9.5	9.7	10.0	10.5	10.8	11.3	12.4	15.6	17.9	20.8	22.4
50°	10.9	10.9	10.8	10.9	11.4	11.8	12.2	13.4	14.9	15.9	16.5
47.5°	13.6	13.4	12.5	12.2	13.0	12.5	12.7	12.9	14.1	14.7	14.7
45°	23.1	22.1	17.0	17.4	17.5	16.9	15.0	16.2	15.3	15.1	15.1
42.5°	57.1	44.3	39.4	32.1	27.2	25.5	23.0	23.1	21.8	18.0	18.1
40°	86.7	71.0	61.0	55.5	46.3	38.9	39.6	32.8	30.9	26.9	25.7
37.5°	101.6	78.4	89.5	85.1	73.1	70.6	69.7	57.1	41.6	49.3	47.4
35°	151.6	143.2	152.6	146.4	120.2	141.5	127.9	99.2	81.6	86.3	79.2
32.5°	309.2	303.3	282.4	260.7	254.6	253.7	230.2	176.2	162.2	150.6	127.8
30°	581.1	538.5	486.8	457.9	447.9	411.0	367.7	376.2	308.9	234.3	192.4
27.5°	1002.6	848.8	773.7	805.6	705.6	623.5	662.7	699.5	521.9	380.8	284.7
25°	1545.7	1323.3	1310.5	1310.2	1157.8	1008.2	1071.9	1076.2	900.8	577.2	410.4
22.5°	2158.1	1937.3	1853.2	1945.4	1768.4	1634.3	1554.9	1497.4	1365.7	938.1	636.9
20°	2673.9	2479.7	2336.7	2340.8	2367.2	2256.8	2096.2	1943.0	1764.0	1407.9	925.2
17.5°	3292.7	2940.1	2700.1	2647.4	2758.5	2768.2	2573.0	2335.2	2148.9	1893.1	1255.2
15°	4265.2	3383.3	3024.0	2906.1	2972.5	3029.8	2942.8	2697.5	2515.3	2303.6	1638.9
12.5°	6798.5	3801.2	3296.3	3016.5	3005.6	3155.7	3189.9	3035.1	2800.3	2501.0	1908.7
10°	9144.0	4779.0	3563.9	3182.1	3060.5	3191.9	3285.4	3107.7	2848.6	2600.7	2139.8
7.5°	14213.9	6329.1	3826.6	3318.5	3103.7	3140.7	3220.4	3055.7	2863.6	2669.4	2332.2
5°	17797.1	7469.0	3992.7	3408.0	3133.1	3125.1	3178.4	2964.8	2852.2	2713.1	2485.2
2.5°	19815.6	8052.4	4086.3	3470.2	3158.2	3144.2	3175.9	2908.1	2830.4	2699.7	2509.3
0°	19011.3	7481.4	4041.6	3482.5	3176.8	3189.2	3209.9	2895.9	2805.0	2670.1	2496.6
-2.5°	19482.2	7906.1	4091.0	3481.8	3192.3	3199.4	3368.5	3031.6	2880.7	2699.5	2471.8
-5°	17055.9	7119.5	3920.7	3351.9	3108.8	3139.3	3330.5	3071.7	2886.7	2695.8	2408.4
-7.5°	13227.1	5975.7	3686.1	3191.5	2998.0	3052.3	3180.0	2989.9	2761.0	2582.4	2257.0
-10°	8432.1	4566.7	3403.0	3027.1	2893.1	2973.3	3057.6	2869.3	2628.6	2465.2	2082.2
-12.5°	5900.0	3625.1	3109.0	2846.4	2808.9	2953.4	2993.3	2736.0	2490.9	2347.2	1890.5
-15°	3886.8	3225.0	2920.0	2773.3	2782.2	2917.5	2947.8	2717.5	2516.1	2282.7	1688.0
-17.5°	3305.5	2941.2	2764.3	2746.0	2823.8	2895.5	2906.6	2769.1	2570.4	2241.9	1507.2
-20°	2980.0	2790.7	2767.8	2796.8	2878.0	2932.9	2926.4	2837.7	2595.0	2035.2	1305.5



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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°	2804.4	2841.9	2895.1	2930.0	2924.2	2938.9	2920.1	2839.8	2591.9	1747.8	1077.0
-25°	2920.1	3053.1	3180.1	3194.7	3054.6	2945.3	2919.6	2764.5	2223.1	1439.0	859.6
-27.5°	3256.1	3442.2	3581.5	3522.2	3315.7	3043.5	2876.4	2610.3	1781.4	1143.5	840.0
-30°	3721.9	3808.1	3878.2	3836.7	3542.5	3221.3	2862.2	2090.7	1400.8	902.3	818.6
-32.5°	4039.0	4019.7	4022.7	3957.2	3692.5	3299.8	2430.2	1583.6	1023.3	875.8	814.1
-35°	4170.0	4042.8	3947.7	3841.1	3719.0	2757.6	1845.0	1179.0	925.0	853.7	813.1
-37.5°	4107.8	3882.4	3717.0	3495.5	2798.6	1999.7	1288.4	997.4	900.8	849.7	809.0
-40°	3830.4	3587.6	3052.3	2471.9	1882.8	1263.9	1067.3	974.0	910.2	843.9	802.9
-42.5°	3093.4	2597.1	2091.9	1600.6	1189.7	1115.3	1045.4	983.4	919.6	853.1	768.1
-45°	2081.8	1665.9	1280.3	1203.3	1131.2	1087.8	1052.4	994.0	930.1	828.7	726.2
-47.5°	1344.8	1270.9	1199.0	1153.1	1118.2	1083.8	1051.5	1002.3	888.2	782.3	680.7
-50°	1251.6	1214.3	1178.8	1145.4	1112.7	1080.7	1015.1	931.2	823.7	721.2	625.6
-52.5°	1231.8	1198.7	1167.5	1136.9	1074.7	1000.4	923.2	839.3	745.4	649.0	559.6
-55°	1218.2	1161.9	1101.2	1038.1	971.3	896.1	819.2	738.4	653.5	566.3	483.8
-57.5°	1098.5	1040.1	977.2	914.3	852.0	777.4	699.7	624.6	553.9	476.8	403.8
-60°	941.7	887.4	829.2	768.0	704.1	637.4	572.5	509.4	448.4	392.1	335.6
-62.5°	766.2	716.1	664.1	610.4	555.0	498.6	447.6	403.0	358.7	311.9	259.5
-65°	587.1	545.0	500.3	459.5	419.6	380.7	342.6	303.6	263.6	222.5	178.6
-67.5°	420.1	388.2	356.7	326.8	297.1	265.7	232.7	199.0	170.9	144.6	115.3
-70°	271.3	248.8	225.8	201.7	180.4	160.4	139.9	118.7	96.6	82.3	70.6
-72.5°	151.9	139.1	125.1	109.9	93.6	83.7	76.3	68.5	59.8	50.1	42.7
-75°	78.1	73.0	67.6	62.0	56.2	50.2	46.4	43.4	40.6	37.8	35.3
-77.5°	46.6	44.8	43.0	41.3	39.5	37.5	35.5	33.6	32.1	30.6	29.0
-80°	34.9	33.8	32.6	31.6	30.6	29.5	28.4	27.2	25.9	24.7	23.5
-82.5°	26.8	26.2	25.5	24.7	23.8	22.7	21.7	20.9	20.1	19.4	18.7
-85°	20.1	19.9	19.6	18.8	18.0	17.2	16.4	16.2	16.0	15.7	15.5
-87.5°	15.7	15.3	15.0	14.6	14.3	13.9	13.5	13.4	13.3	13.2	13.0
-90°	0.0	0.0	0.0	0.4	0.7	1.1	1.4	1.4	1.4	1.4	1.4



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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°	10.7	10.3	10.0	9.6	9.6	9.6	9.6	9.6	8.9	8.3	7.6
87.5°	1.6	1.9	2.0	2.2	2.3	2.5	2.6	2.8	2.9	3.0	3.1
85°	2.1	2.3	2.5	2.8	2.8	2.8	2.8	2.8	3.1	3.3	3.4
82.5°	2.8	2.8	2.7	2.8	3.0	3.1	3.2	3.2	3.3	3.5	3.7
80°	3.1	3.2	3.2	3.2	3.3	3.5	3.7	3.7	3.9	4.0	4.1
77.5°	3.5	3.6	3.9	3.9	3.8	3.8	3.9	4.2	4.4	4.5	4.5
75°	4.1	4.0	4.0	4.2	4.2	4.1	4.0	4.2	4.5	4.9	4.9
72.5°	5.1	4.7	4.4	4.3	4.5	4.5	4.3	4.2	4.6	4.9	5.3
70°	7.0	5.8	5.2	4.9	4.9	5.0	4.9	4.7	4.6	5.0	5.3
67.5°	9.7	8.0	6.6	5.7	5.3	5.2	5.4	5.3	5.2	5.0	5.3
65°	18.6	12.5	8.2	7.0	6.0	5.5	5.5	5.8	5.7	5.5	5.4
62.5°	25.5	18.9	13.1	9.0	7.0	6.1	5.6	6.0	6.2	6.0	5.7
60°	30.0	22.9	17.6	12.8	8.9	6.8	6.2	6.3	6.5	6.5	6.1
57.5°	28.9	25.0	21.0	16.2	11.5	8.1	6.9	6.8	6.9	6.9	6.5
55°	25.4	22.2	23.1	19.5	14.2	9.8	8.0	7.5	7.3	7.3	6.9
52.5°	20.8	20.8	22.7	22.0	17.4	11.8	9.6	8.1	7.9	7.7	7.4
50°	16.8	19.8	22.6	23.3	20.3	15.2	11.1	9.4	8.5	8.2	7.8
47.5°	15.2	18.9	21.7	24.6	22.8	18.5	13.7	10.6	9.1	8.7	8.3
45°	16.9	18.4	21.2	23.9	25.5	21.0	16.4	11.8	10.1	9.2	8.8
42.5°	20.3	20.6	21.4	23.2	25.3	23.1	19.0	14.0	11.0	9.7	9.3
40°	25.5	25.0	23.1	25.0	25.3	24.9	20.8	16.1	11.9	10.3	9.7
37.5°	32.4	31.0	27.9	29.7	27.1	25.6	22.2	18.1	13.2	11.2	10.1
35°	58.5	38.8	43.6	41.2	33.7	26.8	23.4	19.7	15.2	12.1	10.5
32.5°	92.0	72.8	77.0	60.6	42.7	28.6	24.6	21.4	17.1	13.0	10.9
30°	154.4	153.0	127.5	85.3	56.7	37.0	27.1	23.4	18.9	14.0	11.4
27.5°	260.2	250.3	197.3	132.1	80.3	48.0	31.4	25.7	20.6	15.1	12.2
25°	368.8	351.5	291.8	195.7	107.5	74.5	36.3	28.3	22.4	16.5	12.9
22.5°	485.4	449.2	397.7	269.9	153.6	110.0	49.8	32.2	24.3	17.8	13.6
20°	600.3	545.9	504.8	333.5	210.7	151.0	75.3	36.5	26.4	19.1	14.3
17.5°	738.3	623.1	547.1	396.4	267.9	192.4	105.4	41.0	28.5	20.2	15.0
15°	954.7	674.5	584.5	451.8	317.5	233.8	139.0	45.7	30.7	21.3	15.6
12.5°	1151.7	722.3	621.5	499.8	360.2	274.9	174.9	50.4	32.9	22.3	16.1
10°	1336.1	766.3	657.3	541.0	396.8	315.3	212.0	55.2	34.9	23.3	16.6
7.5°	1503.1	806.2	691.5	575.6	424.9	341.0	235.0	59.7	36.8	24.1	17.0
5°	1629.0	835.7	717.2	591.2	432.0	349.8	252.2	64.1	38.5	24.9	17.3
2.5°	1640.9	850.4	736.4	599.6	436.8	355.9	265.3	68.1	40.0	25.6	17.7
0°	1616.6	860.6	751.9	603.1	439.3	359.4	274.0	71.6	41.3	26.2	17.9
-2.5°	1593.5	861.0	753.3	613.8	459.1	369.9	283.7	92.1	54.5	33.6	21.3
-5°	1541.6	857.6	750.7	620.3	476.0	378.3	289.5	111.6	67.2	40.7	24.6
-7.5°	1453.5	841.1	740.0	622.2	489.1	384.7	292.2	129.6	78.9	47.3	27.7
-10°	1336.1	815.4	719.1	612.5	495.2	393.0	293.2	145.8	89.6	53.3	30.4
-12.5°	1192.6	786.9	697.8	602.8	499.1	402.9	296.0	159.5	98.9	58.3	32.7
-15°	1024.0	755.9	677.2	594.5	501.8	410.9	296.0	170.6	107.3	63.2	34.6
-17.5°	837.6	722.9	658.2	588.6	503.9	416.9	293.6	179.2	114.1	67.9	36.7
-20°	798.7	707.5	642.3	586.2	505.7	421.2	288.8	185.1	119.3	71.4	38.8



REPORT NUMBER: P731546 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-70-1S-CV1

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	785.8	709.1	647.4	584.4	507.3	423.6	282.1	188.1	122.6	73.5	40.0
-25°	770.7	712.3	655.1	584.1	507.1	411.7	278.9	187.9	124.0	74.2	40.3
-27.5°	767.9	717.3	662.1	578.3	498.4	398.1	277.6	188.9	123.9	73.3	39.5
-30°	773.0	723.2	655.1	566.9	485.8	375.6	272.2	187.4	122.7	72.0	37.6
-32.5°	774.8	728.7	638.4	550.1	461.7	352.1	259.7	183.1	119.3	69.9	36.6
-35°	771.9	709.9	615.0	528.6	433.3	333.4	245.1	176.1	113.7	66.1	35.5
-37.5°	765.3	676.3	587.2	500.5	404.4	312.0	231.9	164.9	105.8	60.8	33.7
-40°	727.1	640.9	555.0	468.3	377.0	287.8	216.1	151.9	97.6	53.8	31.1
-42.5°	686.9	602.5	518.3	435.3	347.6	267.4	197.9	136.4	87.0	48.6	27.9
-45°	641.8	559.8	477.7	396.2	316.4	244.3	177.9	119.1	74.6	44.0	25.2
-47.5°	592.2	511.9	431.4	352.9	286.9	218.4	155.1	103.4	60.9	38.4	24.2
-50°	536.6	457.8	379.5	312.7	252.2	189.6	131.1	85.9	53.2	31.8	23.0
-52.5°	475.1	396.1	330.8	272.6	214.0	157.6	109.1	67.7	44.7	28.5	21.6
-55°	404.6	340.4	285.0	227.9	172.8	128.0	85.1	56.7	35.3	26.6	20.1
-57.5°	344.0	288.6	232.6	179.0	135.2	97.4	67.1	44.9	31.2	24.5	19.0
-60°	281.5	226.7	175.3	135.6	99.8	72.3	52.4	35.4	28.5	22.4	17.9
-62.5°	209.0	163.4	128.3	95.0	71.7	54.1	38.8	32.0	25.6	21.0	16.7
-65°	144.8	112.7	83.7	67.2	51.1	39.0	34.5	28.4	23.7	19.6	15.7
-67.5°	87.3	73.0	58.5	44.1	38.1	34.1	29.9	26.0	22.1	18.1	15.0
-70°	58.3	45.8	39.6	36.4	33.0	29.5	27.1	24.1	20.3	17.1	14.4
-72.5°	39.7	36.8	34.0	31.1	28.6	26.4	24.5	22.1	18.9	16.1	13.6
-75°	32.8	30.8	28.8	26.7	24.9	23.3	22.0	20.2	17.4	14.9	12.6
-77.5°	27.3	25.6	23.9	22.6	21.6	20.6	19.5	18.1	15.9	13.7	11.5
-80°	22.4	21.4	20.4	19.5	18.7	17.9	17.2	16.4	14.4	12.4	10.3
-82.5°	18.1	17.6	17.2	16.7	16.3	15.8	15.4	14.8	12.9	11.1	9.4
-85°	15.2	15.0	14.7	14.4	14.1	13.8	13.5	13.1	11.6	10.1	8.8
-87.5°	12.8	12.5	12.3	12.0	11.9	11.7	11.5	11.4	10.3	9.2	8.2
-90°	1.4	1.4	1.4	1.4	1.8	2.1	2.5	2.8	2.8	2.8	2.8



REPORT NUMBER: P731546 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	6.9	6.2	5.5	4.8	4.1	4.1	4.1
87.5°	3.1	3.3	3.6	3.8	4.1	4.1	4.1
85°	3.5	3.5	3.7	3.9	4.1	4.2	4.1
82.5°	3.8	3.8	3.8	3.9	4.1	4.2	4.1
80°	4.1	4.0	3.9	4.0	4.1	4.2	4.1
77.5°	4.5	4.2	4.0	4.0	4.1	4.3	4.1
75°	4.9	4.5	4.1	4.0	4.1	4.3	4.1
72.5°	5.2	4.8	4.4	4.1	4.1	4.3	4.1
70°	5.5	5.1	4.6	4.1	4.2	4.4	4.1
67.5°	5.5	5.4	4.8	4.3	4.2	4.4	4.1
65°	5.6	5.6	5.1	4.5	4.2	4.4	4.1
62.5°	5.7	5.7	5.3	4.6	4.2	4.5	4.1
60°	5.8	5.8	5.5	4.8	4.3	4.5	4.1
57.5°	6.1	5.9	5.6	5.0	4.4	4.5	4.1
55°	6.4	6.1	5.8	5.1	4.6	4.6	4.1
52.5°	6.8	6.2	5.9	5.3	4.7	4.6	4.1
50°	7.1	6.5	6.1	5.4	4.8	4.7	4.1
47.5°	7.5	6.8	6.2	5.5	5.0	4.7	4.1
45°	7.9	7.1	6.4	5.7	5.1	4.7	4.1
42.5°	8.4	7.3	6.6	5.8	5.2	4.8	4.1
40°	8.8	7.6	6.8	6.0	5.3	4.8	4.1
37.5°	9.3	7.9	7.0	6.1	5.5	4.9	4.1
35°	9.8	8.2	7.2	6.3	5.6	4.9	4.1
32.5°	10.2	8.6	7.4	6.5	5.7	5.0	4.1
30°	10.5	8.9	7.5	6.7	5.8	5.0	4.1
27.5°	10.9	9.3	7.8	6.8	5.9	5.1	4.1
25°	11.2	9.6	8.0	7.0	6.0	5.1	4.1
22.5°	11.5	10.0	8.2	7.2	6.1	5.1	4.1
20°	11.8	10.2	8.4	7.3	6.3	5.2	4.1
17.5°	12.1	10.4	8.6	7.5	6.3	5.2	4.1
15°	12.3	10.6	8.7	7.6	6.4	5.3	4.1
12.5°	12.6	10.7	8.9	7.7	6.5	5.3	4.1
10°	12.9	10.8	9.1	7.9	6.6	5.4	4.1
7.5°	13.1	10.9	9.2	8.0	6.7	5.4	4.1
5°	13.4	11.0	9.4	8.1	6.8	5.4	4.1
2.5°	13.6	11.0	9.5	8.2	6.8	5.5	4.1
0°	13.8	11.0	9.6	8.3	6.9	5.5	4.1
-2.5°	15.1	11.6	9.8	8.4	7.0	5.5	4.1
-5°	16.3	12.2	10.1	8.5	7.0	5.6	4.1
-7.5°	17.4	12.7	10.3	8.5	7.1	5.6	4.1
-10°	18.5	13.2	10.5	8.6	7.1	5.6	4.1
-12.5°	19.4	13.7	10.6	8.6	7.1	5.6	4.1
-15°	20.2	14.1	10.8	8.7	7.2	5.6	4.1
-17.5°	20.8	14.4	10.9	8.7	7.2	5.6	4.1
-20°	21.5	14.6	11.0	8.7	7.2	5.6	4.1



REPORT NUMBER: P731546 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-70-1S-CV1

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	22.2	14.8	11.0	8.7	7.2	5.6	4.1
-25°	22.5	14.9	11.0	8.8	7.2	5.6	4.1
-27.5°	22.5	15.0	11.0	8.8	7.2	5.6	4.1
-30°	22.0	15.0	10.9	8.7	7.2	5.6	4.1
-32.5°	21.0	14.9	10.9	8.7	7.2	5.6	4.1
-35°	20.5	14.7	10.8	8.7	7.2	5.6	4.1
-37.5°	20.3	14.5	10.7	8.7	7.2	5.5	4.1
-40°	19.8	14.3	10.6	8.6	7.1	5.5	4.1
-42.5°	19.3	14.1	10.5	8.6	7.1	5.5	4.1
-45°	18.6	13.8	10.5	8.6	7.1	5.4	4.1
-47.5°	17.7	13.4	10.4	8.6	7.0	5.4	4.1
-50°	17.1	13.0	10.3	8.5	7.0	5.3	4.1
-52.5°	16.4	12.5	10.2	8.4	6.9	5.3	4.1
-55°	15.7	12.2	10.1	8.3	6.9	5.2	4.1
-57.5°	14.8	12.0	10.0	8.2	6.8	5.2	4.1
-60°	14.0	11.7	9.8	8.0	6.7	5.1	4.1
-62.5°	13.6	11.4	9.5	7.8	6.5	5.0	4.1
-65°	13.1	11.1	9.2	7.7	6.4	5.0	4.1
-67.5°	12.6	10.7	8.8	7.5	6.2	4.9	4.1
-70°	12.1	10.1	8.5	7.2	6.0	4.8	4.1
-72.5°	11.3	9.5	8.1	7.0	5.7	4.7	4.1
-75°	10.4	8.8	7.6	6.7	5.5	4.6	4.1
-77.5°	9.4	8.2	7.3	6.4	5.3	4.6	4.1
-80°	8.4	7.7	6.9	6.0	5.1	4.5	4.1
-82.5°	8.0	7.3	6.6	5.7	4.8	4.4	4.1
-85°	7.6	6.9	6.2	5.4	4.6	4.3	4.1
-87.5°	7.3	6.6	5.9	5.1	4.3	4.2	4.1
-90°	2.8	3.1	3.5	3.8	4.1	4.1	4.1

(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

