

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: P731599 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-70-2S-CV2**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731599 (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: EPHESUS
Catalog Number: EPH-LS-08-0680N-40-70-2S-CV2
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 2S BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

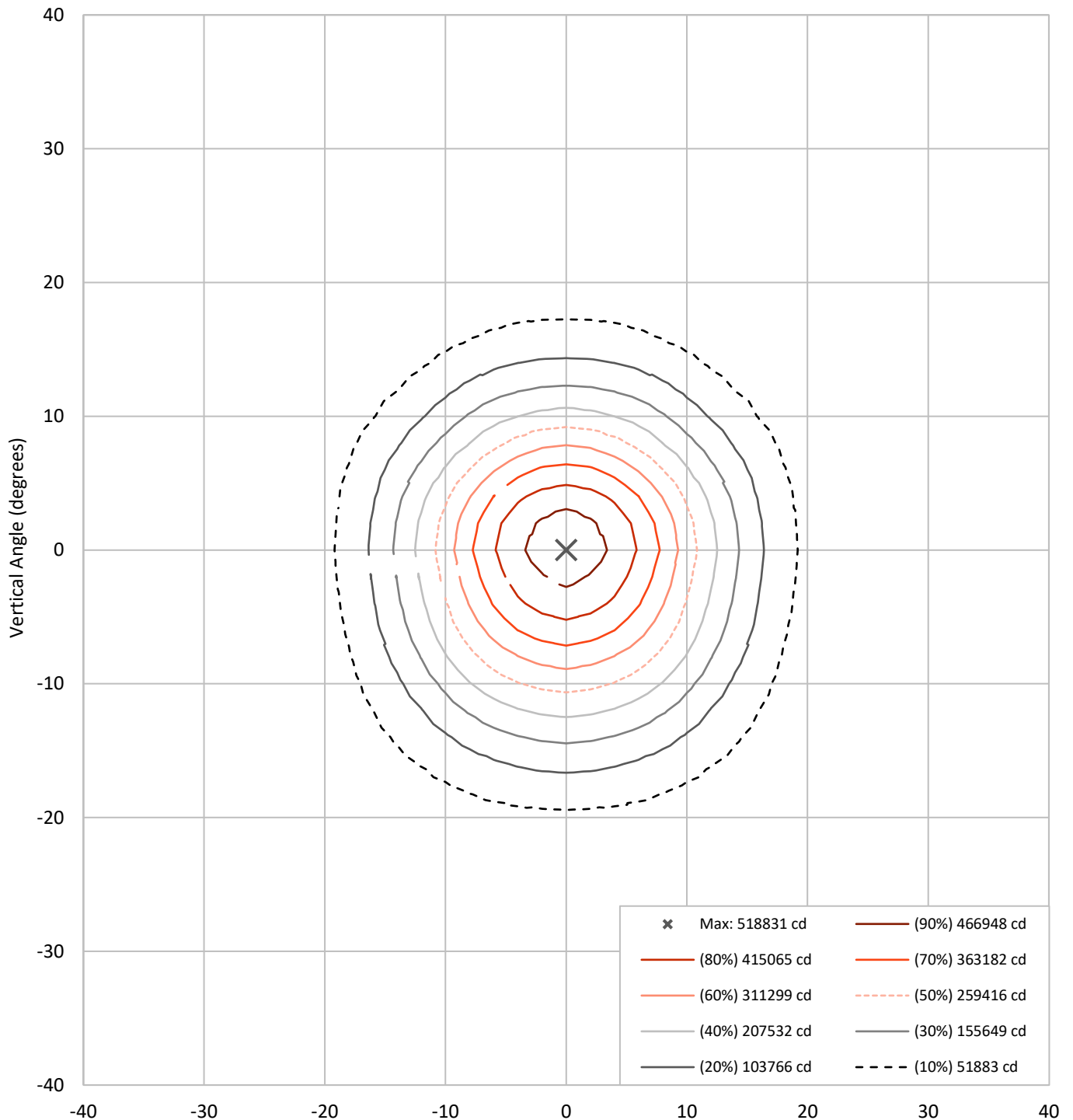
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	80316.1 lumens	Max Intensity:	518831 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	114.2 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:	37129.5 lumens	Field Lumens:	69263.8 lumens
Beam Efficiency:	46.2%	Field Efficiency:	86.2%

Input Watts (W): 703.3
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





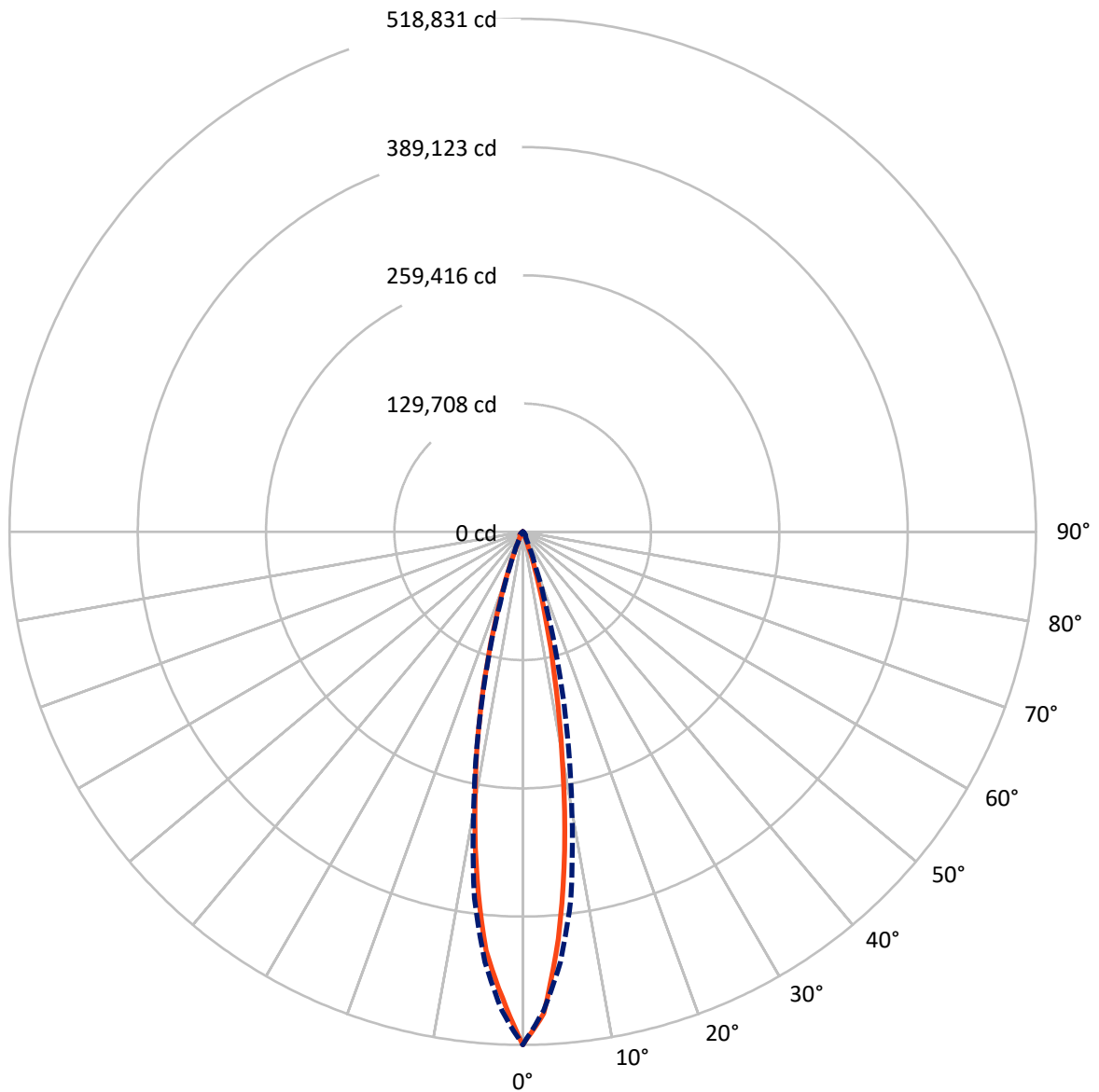
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Lumen Table

90																			
80	0.2	0.5		0.7		0.7		0.7		0.7		0.7		0.5		0.2			
70	0.2	0.1	0.2	0.7	0.8	0.5	0.3	0.3	0.3	0.3	0.5	0.8	0.7	0.2	0.1	0.2			
60		0.1	0.4	0.7	0.5	0.4	0.3	0.4	0.4	0.3	0.4	0.5	0.7	0.4	0.1				
50	0.2	0.2	0.5	0.6	0.8	1.1	1.4	1.6	1.6	1.4	1.1	0.8	0.6	0.5	0.2	0.2			
40		0.3	1.0	2.2	4.7	7.5	9.1	10.5	10.5	9.1	7.5	4.7	2.2	1.0	0.3				
30	0.3	0.5	3.3	11.2	29.8	43.8	76.7	168.7	168.7	76.7	43.8	29.8	11.2	3.3	0.5	0.3			
20		1.1	7.5	29.0	68.3	133.6	830.1	2590.0	2590.0	830.1	133.6	68.3	29.0	7.5	1.1				
10	0.4	2.1	12.9	53.7	111.5	359.5	3392.3	10104.3	10104.3	3392.3	359.5	111.5	53.7	12.9	2.1	0.4			
0		3.4	16.8	63.0	125.0	360.7	3595.1	10534.5	10534.5	3595.1	360.7	125.0	63.0	16.8	3.4				
-10	0.7	4.0	17.1	58.2	123.4	206.3	1323.7	3820.1	3820.1	1323.7	206.3	123.4	58.2	17.1	4.0	0.7			
-20		3.7	14.5	34.8	87.7	129.1	201.5	394.5	394.5	201.5	129.1	87.7	34.8	14.5	3.7				
-30	0.5	3.1	10.6	21.7	48.5	92.8	120.3	132.2	132.2	120.3	92.8	48.5	21.7	10.6	3.1	0.5			
-40		2.1	7.3	16.1	27.4	45.4	78.9	106.5	106.5	78.9	45.4	27.4	16.1	7.3	2.1				
-50	0.3	1.0	4.3	10.4	19.1	28.5	36.5	41.0	41.0	36.5	28.5	19.1	10.4	4.3	1.0	0.3			
-60		0.4	1.6	4.9	10.1	16.4	23.1	27.2	27.2	23.1	16.4	10.1	4.9	1.6	0.4				
-70	0.2	1.2		3.7		9.4		13.5		9.4		3.7		1.2		0.2			
-80		1.2		3.7		9.4		13.5		9.4		3.7		1.2					
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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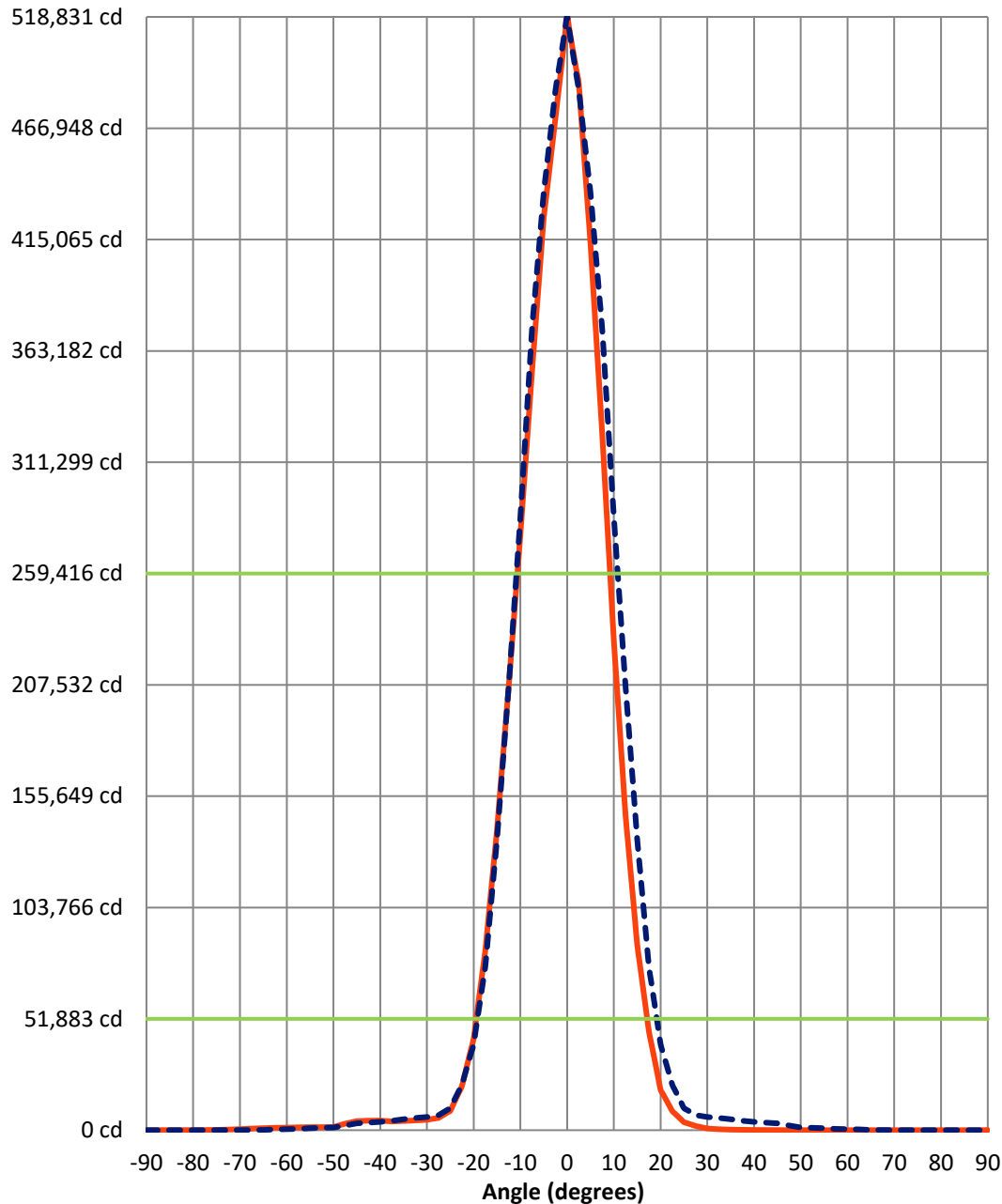
Luminous Intensity Polar Plot



— 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: 37129.5
 Efficiency: 46.2%

Field:
 H Angle: 38.4°
 V Angle: 36.6°
 Lumens: 69263.8
 Efficiency: 86.2%

Spill:
 Lumens: 11052.3
 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°	8.4	8.4	8.4	8.9	9.5	10.0	10.5	10.5	10.5	10.5	10.5
87.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.0	7.7	7.4	7.2
85°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.2	8.1	8.0	8.1
82.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
80°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
77.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
75°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
72.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
70°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.5
67.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.5	8.4	8.4	8.7	8.7
65°	8.4	8.4	8.4	8.4	8.4	8.5	8.5	8.4	8.9	9.1	8.8
62.5°	8.4	8.4	8.4	8.4	8.4	8.6	8.7	8.8	9.3	9.4	8.9
60°	8.4	8.4	8.4	8.4	8.4	8.8	8.8	9.3	9.9	9.5	9.0
57.5°	8.4	8.4	8.4	8.4	8.6	9.0	9.2	9.9	10.1	9.6	9.1
55°	8.4	8.4	8.5	8.4	8.8	9.2	9.6	10.4	10.2	9.7	9.3
52.5°	8.4	8.4	8.5	8.4	9.0	9.5	10.0	10.5	10.3	9.8	9.4
50°	8.4	8.4	8.5	8.4	9.3	9.7	10.3	10.5	10.4	10.0	11.0
47.5°	8.4	8.4	8.6	8.4	9.5	9.9	10.5	10.5	10.5	10.1	12.6
45°	8.4	8.4	8.7	8.6	9.8	10.1	10.5	10.5	10.6	11.0	13.7
42.5°	8.4	8.4	8.7	8.8	10.0	10.3	10.5	10.6	10.7	11.8	15.4
40°	8.4	8.4	8.8	9.1	10.2	10.4	10.5	10.7	11.1	12.3	16.9
37.5°	8.4	8.4	8.9	9.3	10.3	10.5	10.5	11.0	12.0	13.6	18.3
35°	8.4	8.4	9.0	9.5	10.4	10.5	10.5	11.2	12.9	15.7	19.0
32.5°	8.4	8.4	9.1	9.7	10.4	10.5	10.6	11.5	13.9	18.0	20.8
30°	8.4	8.4	9.2	9.9	10.5	10.5	10.8	11.9	15.1	20.3	22.9
27.5°	8.4	8.4	9.3	10.0	10.5	10.5	11.0	12.8	16.5	22.7	25.4
25°	8.4	8.4	9.4	10.1	10.5	10.5	11.3	13.7	18.5	24.9	28.3
22.5°	8.4	8.4	9.5	10.2	10.5	10.5	11.5	14.7	20.4	27.1	33.8
20°	8.4	8.4	9.6	10.3	10.5	10.7	11.8	15.6	22.3	29.5	38.9
17.5°	8.4	8.4	9.7	10.4	10.5	10.9	12.2	16.5	24.2	32.0	43.7
15°	8.4	8.4	9.8	10.4	10.5	11.1	12.6	17.4	26.0	34.6	48.2
12.5°	8.4	8.4	10.0	10.5	10.5	11.3	13.0	18.2	27.8	37.2	52.4
10°	8.4	8.4	10.1	10.5	10.5	11.6	13.4	18.9	29.6	41.3	58.8
7.5°	8.4	8.4	10.2	10.5	10.5	11.8	13.7	19.5	31.3	45.7	70.7
5°	8.4	8.4	10.3	10.5	10.5	12.1	14.1	20.1	32.9	50.2	83.0
2.5°	8.4	8.4	10.4	10.5	10.5	12.4	14.4	20.5	34.3	54.5	95.1
0°	8.4	8.4	10.5	10.5	10.5	12.6	14.7	20.9	35.6	58.6	106.8
-2.5°	8.4	8.4	10.5	10.6	10.7	13.0	16.4	25.8	46.1	76.5	137.9
-5°	8.4	8.5	10.5	10.8	10.9	13.5	17.9	30.5	56.1	93.7	167.2
-7.5°	8.4	8.5	10.5	10.9	11.1	13.8	19.4	34.8	65.4	109.7	194.1
-10°	8.4	8.6	10.4	11.0	11.2	14.2	20.7	38.6	73.6	124.1	217.7
-12.5°	8.4	8.6	10.4	11.1	11.4	14.5	21.9	41.8	80.7	136.6	231.7
-15°	8.4	8.7	10.4	11.2	11.6	14.7	22.8	44.3	87.0	146.5	240.1
-17.5°	8.4	8.7	10.4	11.3	11.8	14.9	23.4	47.2	92.8	154.5	245.7
-20°	8.4	8.7	10.3	11.4	11.9	15.0	24.1	49.9	97.1	160.7	248.5



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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°	8.4	8.8	10.3	11.4	12.1	15.0	25.0	51.3	99.8	164.9	248.4
-25°	8.4	8.8	10.3	11.5	12.3	15.2	25.3	51.2	100.7	166.9	245.2
-27.5°	8.4	8.8	10.2	11.5	12.5	15.5	25.1	49.6	99.7	167.1	246.4
-30°	8.4	8.9	10.2	11.4	12.6	15.6	24.3	46.4	97.7	165.6	245.1
-32.5°	8.4	8.9	10.2	11.4	12.9	15.6	22.9	44.7	94.0	161.5	240.9
-35°	8.4	8.9	10.2	11.3	13.1	15.4	22.3	43.0	87.9	154.9	233.8
-37.5°	8.4	8.9	10.2	11.2	13.2	15.3	22.1	40.3	79.3	145.6	215.9
-40°	8.4	8.9	10.1	11.1	13.3	15.5	21.7	36.7	68.3	133.8	196.0
-42.5°	8.4	8.9	10.1	11.0	13.2	15.5	21.1	32.2	60.5	115.4	174.4
-45°	8.4	8.9	10.1	10.8	13.0	15.5	20.3	28.6	54.2	95.4	151.3
-47.5°	8.4	8.9	10.1	10.7	12.8	15.3	19.2	27.4	46.5	74.7	127.9
-50°	8.4	8.9	10.1	10.6	12.6	15.1	18.8	25.9	36.9	63.6	103.6
-52.5°	8.4	8.9	10.2	10.7	12.3	14.7	18.2	24.2	32.2	51.7	79.5
-55°	8.4	8.9	10.2	10.7	12.0	14.3	17.6	22.3	29.5	38.9	64.8
-57.5°	8.4	8.9	10.2	10.7	11.6	13.8	16.7	21.1	26.8	33.5	49.0
-60°	8.4	8.9	10.2	10.7	11.3	13.3	15.8	19.8	24.2	30.3	36.6
-62.5°	8.4	8.8	10.1	10.6	11.2	12.8	15.1	18.3	22.5	27.0	33.0
-65°	8.4	8.8	10.0	10.6	11.1	12.2	14.3	17.0	20.8	24.8	29.2
-67.5°	8.4	8.8	9.9	10.6	11.0	11.7	13.4	16.0	19.0	22.8	26.5
-70°	8.4	8.7	9.7	10.5	10.8	11.5	12.5	15.0	17.9	20.7	24.2
-72.5°	8.4	8.7	9.6	10.3	10.7	11.2	12.0	14.0	16.7	19.3	22.0
-75°	8.4	8.7	9.4	10.1	10.5	10.9	11.6	13.3	15.4	18.0	20.5
-77.5°	8.4	8.6	9.3	9.9	10.3	10.6	11.1	12.6	14.5	16.6	18.9
-80°	8.4	8.6	9.1	9.7	10.2	10.4	10.6	11.9	13.6	15.4	17.3
-82.5°	8.4	8.5	8.9	9.5	10.0	10.3	10.5	11.4	12.6	14.1	15.7
-85°	8.4	8.5	8.8	9.3	9.8	10.2	10.5	11.1	11.9	12.9	14.0
-87.5°	8.4	8.4	8.6	9.1	9.6	10.1	10.5	10.8	11.2	11.7	12.3
-90°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	7.9	7.4	6.8	6.3



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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°	10.5	10.5	10.5	10.5	11.0	11.6	12.1	12.6	13.1	13.7	14.2
87.5°	7.0	6.8	6.6	6.3	6.3	6.3	6.3	6.3	5.8	5.3	4.7
85°	7.8	7.4	6.8	6.3	6.3	6.3	6.3	6.3	5.8	5.3	4.7
82.5°	7.9	7.4	6.9	6.3	6.3	6.3	6.3	6.3	5.8	5.3	4.8
80°	8.0	7.4	6.9	6.4	6.3	6.3	6.3	6.3	5.9	5.5	5.2
77.5°	8.0	7.5	7.0	6.4	6.4	6.7	7.1	7.4	7.3	7.1	6.9
75°	8.0	7.5	7.3	7.3	7.6	8.0	8.4	8.4	8.1	7.6	7.0
72.5°	8.2	8.0	8.0	8.4	8.4	8.4	8.4	8.4	9.4	10.8	11.9
70°	8.3	8.4	8.4	8.4	8.4	8.9	11.1	14.0	16.9	19.2	22.0
67.5°	8.4	8.4	8.4	8.6	10.1	12.5	15.8	24.1	33.7	36.7	36.6
65°	8.4	8.4	8.9	10.3	12.4	18.8	27.9	39.2	47.6	46.3	43.3
62.5°	8.4	8.7	9.8	12.9	18.7	27.2	36.0	44.1	52.1	50.8	44.2
60°	8.6	8.9	12.4	18.3	24.7	31.4	39.8	45.1	50.4	51.8	40.9
57.5°	8.7	10.8	16.6	22.9	28.7	33.6	36.8	41.4	44.4	45.0	33.7
55°	9.8	14.1	20.4	26.5	30.6	29.4	31.7	34.5	35.7	33.0	23.8
52.5°	12.5	17.3	23.6	28.7	29.2	27.0	26.4	27.6	25.5	21.8	18.9
50°	14.8	20.3	26.4	29.3	28.6	25.7	21.9	21.3	20.6	19.1	17.3
47.5°	17.1	23.1	28.4	30.3	28.2	25.5	21.0	20.5	20.6	21.8	20.6
45°	19.3	24.8	30.2	30.5	29.0	26.9	25.0	22.8	26.9	28.2	28.1
42.5°	21.3	25.9	30.7	31.2	31.9	31.5	30.8	33.1	35.5	37.8	38.5
40°	22.0	26.6	32.3	36.4	36.5	38.0	42.4	46.4	46.5	49.3	51.0
37.5°	22.3	29.2	36.9	46.2	43.4	48.5	55.7	66.6	68.1	61.9	70.7
35°	22.3	32.9	49.3	60.1	58.6	62.2	79.3	95.3	102.5	92.2	106.4
32.5°	24.5	37.6	65.3	76.7	87.3	91.3	107.9	139.6	157.3	163.9	175.8
30°	29.8	52.3	83.6	96.0	125.8	145.7	159.5	197.3	229.7	327.9	400.8
27.5°	36.4	70.3	101.9	130.3	174.2	208.4	238.2	277.1	396.0	574.9	760.7
25°	42.7	94.4	121.9	174.8	234.4	280.5	321.4	376.6	625.7	992.2	1148.7
22.5°	55.6	122.1	153.7	224.8	300.0	354.7	414.2	563.3	899.8	1450.5	1514.9
20°	76.7	148.8	197.2	280.9	372.8	429.1	507.9	759.3	1210.0	1630.7	1805.2
17.5°	99.3	178.0	244.9	347.2	458.5	522.3	614.4	948.0	1477.2	1851.8	2085.8
15°	122.8	209.1	290.8	419.8	549.3	637.3	827.7	1207.2	1688.4	2110.9	2452.1
12.5°	146.8	241.3	334.5	496.7	644.3	750.8	1086.1	1602.5	2042.0	2437.8	2901.0
10°	170.4	274.1	375.9	575.8	741.9	862.3	1370.7	2004.3	2435.8	2822.9	3297.7
7.5°	217.7	318.1	419.5	654.8	840.0	970.9	1668.2	2403.6	2797.1	3160.4	3626.2
5°	269.3	372.3	486.7	748.8	938.3	1071.1	1939.2	2789.6	3130.1	3457.7	3912.8
2.5°	319.6	424.0	551.6	838.9	1032.3	1157.9	2077.9	3001.6	3341.9	3685.7	4160.2
0°	366.3	473.1	613.4	921.1	1120.0	1239.3	2179.2	3179.8	3519.0	3876.9	4377.2
-2.5°	405.2	523.0	678.6	960.1	1144.3	1260.1	2145.9	3178.1	3585.0	3982.6	4500.3
-5°	437.7	569.7	738.8	992.3	1163.8	1277.1	2080.0	3127.9	3639.4	4067.2	4593.1
-7.5°	463.2	612.7	792.9	1017.5	1175.8	1285.6	2051.0	3148.8	3736.8	4141.4	4653.8
-10°	477.1	629.9	796.9	1016.5	1178.0	1287.5	1987.0	3105.7	3817.5	4207.5	4679.4
-12.5°	458.5	622.7	786.5	1006.0	1178.7	1286.8	1863.7	2991.6	3883.7	4270.5	4656.0
-15°	437.9	612.0	769.6	985.4	1178.8	1283.7	1675.3	2801.7	3846.2	4157.9	4558.4
-17.5°	416.3	597.6	745.9	954.0	1179.3	1278.7	1407.6	2394.1	3470.9	3919.5	4401.0
-20°	394.8	579.6	715.1	911.5	1173.0	1244.4	1304.2	1980.3	2923.8	3616.4	4102.9



REPORT NUMBER: P731599 (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°	374.3	557.8	683.8	870.8	1082.1	1185.3	1242.2	1579.7	2360.4	3247.9	3657.7
-25°	363.1	525.8	656.6	808.6	987.2	1123.8	1172.7	1242.8	1863.0	2665.6	3251.4
-27.5°	357.4	497.8	620.2	746.8	899.3	1050.0	1103.0	1163.9	1479.6	2095.6	2824.5
-30°	348.1	462.2	581.8	690.3	826.6	955.5	1032.9	1102.5	1188.3	1651.1	2227.7
-32.5°	327.1	425.2	540.1	645.8	758.9	873.0	982.0	1058.0	1128.0	1253.4	1709.4
-35°	302.6	393.8	496.7	599.8	695.3	806.6	919.9	1019.4	1075.9	1134.3	1335.4
-37.5°	282.2	360.6	452.5	552.0	643.9	744.8	854.7	959.9	1038.1	1091.3	1167.6
-40°	260.3	325.6	412.5	503.1	593.1	684.2	785.3	887.5	985.1	1066.6	1128.1
-42.5°	236.6	299.5	372.5	453.8	540.0	625.7	713.9	811.0	913.7	1020.0	1099.7
-45°	210.8	272.0	332.8	408.8	485.2	565.0	646.9	732.9	836.7	938.5	1039.5
-47.5°	182.9	242.4	301.1	363.3	433.6	504.8	578.2	665.5	757.0	853.1	947.8
-50°	154.1	209.5	268.4	325.0	384.9	447.9	513.2	599.3	686.5	769.7	854.7
-52.5°	126.3	174.7	231.1	288.2	341.4	396.7	459.4	535.0	616.5	697.0	772.8
-55°	97.5	142.3	190.8	246.0	300.6	350.1	409.0	476.2	545.0	621.4	694.8
-57.5°	75.2	109.4	152.0	199.1	252.1	306.4	362.6	419.2	481.9	546.6	610.0
-60°	56.1	81.0	113.5	154.2	198.2	251.2	312.7	368.8	422.0	474.9	532.7
-62.5°	38.9	58.5	81.5	109.7	147.9	191.5	244.2	302.3	364.3	411.2	457.4
-65°	34.7	40.1	56.0	77.1	98.3	134.5	176.3	222.0	274.6	322.6	372.6
-67.5°	30.3	35.2	40.3	48.6	67.5	87.5	108.9	146.0	185.9	220.2	255.9
-70°	27.4	30.4	34.5	39.2	44.0	52.1	69.6	88.2	106.7	126.7	155.4
-72.5°	24.8	27.5	30.2	32.8	36.8	40.8	44.7	48.5	59.1	73.7	87.0
-75°	22.5	24.6	27.0	29.4	31.6	33.8	36.6	40.0	43.3	46.7	50.3
-77.5°	20.3	21.7	23.6	25.7	27.4	28.8	30.5	32.5	34.6	36.7	38.7
-80°	18.1	18.8	19.8	21.2	22.6	24.0	25.1	26.1	27.2	28.8	30.4
-82.5°	16.3	16.7	17.2	17.6	18.5	19.4	20.5	21.6	22.3	23.1	23.9
-85°	14.4	14.7	15.0	15.3	15.7	16.2	16.7	17.3	17.6	18.0	18.3
-87.5°	12.4	12.6	12.8	12.9	13.3	13.6	13.8	14.1	14.3	14.5	14.6
-90°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	5.8	5.3	4.7



REPORT NUMBER: P731599 (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°	14.7	14.7	14.7	14.7	14.7	17.8	20.9	24.1	27.2	31.9	36.6
87.5°	4.2	4.1	4.1	4.0	4.0	3.6	3.1	2.6	2.1	1.6	1.1
85°	4.2	4.2	4.2	4.2	4.2	3.7	3.2	2.6	2.1	2.1	2.1
82.5°	4.2	4.2	4.2	4.2	4.2	3.7	3.2	2.7	2.1	2.1	2.1
80°	4.9	4.8	4.7	4.5	4.2	3.7	3.2	2.7	2.1	2.1	2.1
77.5°	6.4	5.9	5.4	4.8	4.3	4.0	3.9	3.8	3.8	3.5	3.1
75°	6.5	6.3	6.5	6.2	5.5	5.1	4.9	4.7	4.3	4.1	4.1
72.5°	12.7	12.7	11.9	11.2	10.1	9.5	9.2	8.6	7.7	7.3	7.1
70°	23.0	22.6	21.7	19.9	17.0	14.7	13.3	11.9	10.5	10.0	10.1
67.5°	33.3	29.9	27.2	23.8	19.8	16.7	15.1	13.3	11.4	10.5	10.5
65°	38.7	31.5	26.8	23.3	20.6	17.7	15.0	12.5	10.2	9.1	9.4
62.5°	36.6	27.3	21.6	18.3	15.9	14.3	12.1	10.4	9.1	8.5	8.5
60°	30.4	20.3	15.4	13.7	12.1	10.6	9.9	9.0	8.0	7.0	7.3
57.5°	23.6	16.3	12.5	11.9	11.3	10.7	9.8	8.9	8.2	7.7	8.1
55°	17.6	14.6	12.7	12.8	12.5	11.5	10.4	10.2	10.0	9.7	10.0
52.5°	15.4	15.3	15.9	15.7	14.3	13.2	12.4	12.5	12.7	13.0	13.6
50°	17.5	18.1	17.8	16.4	16.1	15.6	14.7	15.6	16.8	17.2	17.6
47.5°	20.9	21.2	21.5	20.1	20.4	21.9	22.2	22.9	25.2	27.0	28.6
45°	26.8	29.1	29.7	30.6	31.1	34.3	35.9	36.7	43.3	46.3	46.7
42.5°	38.7	42.3	45.1	49.7	49.0	56.9	67.0	72.5	72.0	69.9	69.8
40°	56.6	62.8	76.7	84.0	92.1	101.2	102.1	90.9	91.0	102.3	101.7
37.5°	87.3	108.8	128.4	145.6	149.9	144.7	146.6	155.1	165.2	166.2	171.1
35°	147.3	190.7	200.7	214.0	228.5	214.8	213.0	226.7	222.1	245.6	262.5
32.5°	254.6	316.2	334.9	350.9	391.6	368.1	303.2	397.7	376.5	402.8	442.9
30°	405.0	526.1	607.6	632.0	642.2	645.0	706.1	760.3	803.2	860.4	941.5
27.5°	767.0	847.3	982.8	1058.8	963.1	1002.6	1159.5	1188.0	1349.5	1525.2	1669.4
25°	1166.4	1256.6	1497.6	1527.8	1447.9	1594.8	1746.5	1778.0	2063.0	2269.9	2765.1
22.5°	1527.4	1678.5	1936.4	2009.6	2076.2	2250.7	2426.9	2637.2	3279.3	4075.6	5520.6
20°	1833.0	2001.5	2253.6	2457.2	2623.5	2846.1	3051.5	3769.2	5152.4	8177.6	11468.1
17.5°	2202.8	2307.3	2619.0	2891.2	3151.7	3470.7	4378.4	6191.1	10195.3	16786.9	23034.4
15°	2701.2	2908.9	3102.3	3396.9	3883.4	4811.2	6814.0	12719.0	21096.0	32593.5	46834.8
12.5°	3275.9	3562.3	3830.5	4080.4	4778.3	6966.6	13357.1	23597.1	37679.1	56148.7	84098.1
10°	3789.1	4226.6	4555.9	4991.9	6343.8	10599.3	20464.4	34941.0	59685.7	92319.9	128794.0
7.5°	4145.4	4665.3	5109.3	5757.6	7962.0	15171.4	28828.2	51372.5	86546.2	130518.6	179721.3
5°	4484.4	5070.6	5506.4	6304.0	9032.0	18347.4	35167.5	65068.6	112836.6	170940.0	234111.2
2.5°	4804.6	5428.5	5857.0	6793.4	9707.6	19795.0	37822.8	73583.1	129842.3	198665.9	273691.5
0°	5101.5	5691.9	6139.9	7023.3	10278.4	21184.9	40081.7	76328.4	135587.5	206829.1	285740.6
-2.5°	5046.1	5484.9	5981.0	6866.4	9735.4	19694.6	37449.2	73103.9	128842.5	197084.2	269669.5
-5°	5026.7	5382.5	5830.4	6633.0	9064.6	17017.5	33260.6	65823.5	117790.8	179290.2	246896.9
-7.5°	5041.6	5324.1	5674.2	6338.0	8254.6	14388.0	28918.6	57060.8	99984.4	152054.3	213105.8
-10°	5073.2	5291.8	5646.7	6230.6	7572.2	11500.1	21885.5	43962.8	78613.2	120028.2	167599.9
-12.5°	5127.9	5422.4	5778.6	6175.4	6886.5	9159.9	17212.3	34127.1	58124.2	87220.1	123417.9
-15°	5109.1	5488.7	5891.2	6136.2	6523.3	7788.8	11164.5	22533.8	40217.0	59514.0	81420.5
-17.5°	4971.5	5426.1	5602.9	5793.0	6028.5	6651.9	8536.1	13590.3	23660.0	36339.1	48663.9
-20°	4652.1	4882.1	5103.2	5330.1	5590.9	5934.9	6521.0	8489.8	11438.5	18633.2	24648.0



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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°	4052.4	4273.7	4465.4	4833.4	5096.7	5349.4	5672.2	6098.3	7232.3	9013.8	11974.5
-25°	3538.0	3674.4	3944.0	4373.7	4656.6	4808.0	5010.4	5172.0	5560.8	5974.5	6997.2
-27.5°	3126.9	3331.3	3663.5	4039.9	4311.1	4432.8	4539.2	4634.2	4878.4	5047.5	5337.9
-30°	2801.7	3132.6	3443.9	3788.3	4037.7	4182.4	4227.7	4364.8	4524.0	4644.7	4762.4
-32.5°	2335.0	2917.3	3200.5	3485.7	3767.4	3945.5	4067.6	4175.6	4325.0	4417.7	4464.0
-35°	1832.6	2428.7	2986.3	3177.5	3382.3	3638.2	3846.5	3956.4	4054.7	4144.1	4200.5
-37.5°	1383.0	1871.4	2390.4	2857.1	3076.3	3267.8	3570.7	3754.1	3843.2	3976.5	4052.3
-40°	1199.4	1338.0	1780.8	2217.9	2611.2	3047.2	3342.0	3624.7	3904.2	4075.5	4186.7
-42.5°	1158.3	1214.9	1267.4	1573.7	1967.0	2362.1	2796.5	3276.1	3677.3	3979.3	4260.0
-45°	1125.1	1168.1	1210.4	1258.4	1304.5	1606.6	1946.3	2303.8	2765.4	3212.2	3598.1
-47.5°	1039.3	1120.8	1168.4	1204.5	1242.1	1283.9	1322.4	1403.5	1713.9	2043.9	2357.3
-50°	941.8	1022.6	1094.9	1161.9	1210.2	1242.7	1266.9	1298.7	1335.8	1368.7	1399.0
-52.5°	845.9	924.2	997.7	1070.5	1138.7	1201.5	1259.5	1296.1	1324.3	1348.9	1364.3
-55°	765.2	832.8	898.6	970.6	1040.7	1107.5	1170.5	1227.2	1280.4	1330.3	1358.8
-57.5°	677.0	743.4	809.4	875.9	939.9	1001.3	1062.1	1121.4	1177.6	1228.9	1260.1
-60°	589.7	645.6	711.1	779.4	843.1	902.5	963.1	1020.5	1073.7	1118.9	1146.7
-62.5°	507.7	559.8	614.3	674.9	740.6	804.6	858.4	912.8	967.1	1013.8	1045.8
-65°	420.8	464.5	508.7	556.1	606.3	658.7	712.6	765.6	817.3	859.6	889.9
-67.5°	297.7	341.1	383.3	425.5	464.1	502.8	544.1	585.8	627.2	661.2	688.0
-70°	183.5	210.7	236.2	263.6	295.8	329.5	363.9	396.1	425.8	447.9	464.2
-72.5°	99.0	109.9	123.0	143.6	162.7	182.8	203.6	223.6	242.3	256.2	266.6
-75°	54.2	59.1	67.6	75.7	83.2	92.1	101.2	109.8	117.7	125.6	132.7
-77.5°	41.1	43.6	45.8	47.8	49.5	52.6	56.2	59.8	63.4	68.1	73.1
-80°	32.1	33.3	34.6	35.8	37.1	39.3	41.5	43.8	46.0	48.2	50.3
-82.5°	24.7	25.3	25.9	26.4	26.9	28.3	29.8	31.2	32.6	34.9	37.2
-85°	18.7	19.1	19.5	19.8	20.1	21.2	22.3	23.5	24.6	26.3	28.0
-87.5°	14.7	15.1	15.6	16.0	16.5	17.3	17.9	18.5	19.1	20.6	22.2
-90°	4.2	3.7	3.2	2.6	2.1	2.1	2.1	2.1	2.1	1.6	1.1



REPORT NUMBER: P731599 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-2S-CV2

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	41.4	46.1	49.2	52.3	49.2	46.1	41.4	36.6	31.9	27.2	24.1
87.5°	0.5	0.0	0.0	0.0	0.0	0.0	0.5	1.1	1.6	2.1	2.6
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.6
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.7
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.7
77.5°	2.6	2.1	2.1	2.1	2.1	2.1	2.6	3.1	3.5	3.8	3.8
75°	4.1	4.2	4.2	4.2	4.2	4.2	4.1	4.1	4.1	4.3	4.7
72.5°	6.7	6.3	6.3	6.3	6.3	6.3	6.7	7.1	7.3	7.7	8.6
70°	10.2	10.4	10.5	10.5	10.5	10.4	10.2	10.1	10.0	10.5	11.9
67.5°	10.5	10.5	9.5	8.4	9.5	10.5	10.5	10.5	10.5	11.4	13.3
65°	9.9	10.4	9.6	8.4	9.6	10.4	9.9	9.4	9.1	10.2	12.5
62.5°	8.5	8.5	8.4	8.4	8.4	8.5	8.5	8.5	8.5	9.1	10.4
60°	7.7	8.2	8.4	8.4	8.4	8.2	7.7	7.3	7.0	8.0	9.0
57.5°	8.3	8.4	9.2	10.5	9.2	8.4	8.3	8.1	7.7	8.2	8.9
55°	10.2	10.4	10.5	10.5	10.5	10.4	10.2	10.0	9.7	10.0	10.2
52.5°	14.1	14.4	14.6	14.7	14.6	14.4	14.1	13.6	13.0	12.7	12.5
50°	18.1	18.5	18.0	16.7	18.0	18.5	18.1	17.6	17.2	16.8	15.6
47.5°	30.0	30.7	30.5	29.3	30.5	30.7	30.0	28.6	27.0	25.2	22.9
45°	47.9	47.9	47.7	48.1	47.7	47.9	47.9	46.7	46.3	43.3	36.7
42.5°	71.7	72.4	72.7	73.3	72.7	72.4	71.7	69.8	69.9	72.0	72.5
40°	103.6	104.2	103.0	100.5	103.0	104.2	103.6	101.7	102.3	91.0	90.9
37.5°	179.9	183.9	182.9	180.0	182.9	183.9	179.9	171.1	166.2	165.2	155.1
35°	268.6	266.2	259.1	259.6	259.1	266.2	268.6	262.5	245.6	222.1	226.7
32.5°	419.5	434.6	439.3	441.7	439.3	434.6	419.5	442.9	402.8	376.5	397.7
30°	998.8	968.5	834.6	793.4	834.6	968.5	998.8	941.5	860.4	803.2	760.3
27.5°	1774.2	1869.8	1957.3	1965.7	1957.3	1869.8	1774.2	1669.4	1525.2	1349.5	1188.0
25°	3276.5	3598.4	3734.1	3715.7	3734.1	3598.4	3276.5	2765.1	2269.9	2063.0	1778.0
22.5°	7229.1	8327.6	8900.1	8919.8	8900.1	8327.6	7229.1	5520.6	4075.6	3279.3	2637.2
20°	15773.9	18425.0	19094.6	18894.7	19094.6	18425.0	15773.9	11468.1	8177.6	5152.4	3769.2
17.5°	32524.2	40366.9	45721.2	46089.7	45721.2	40366.9	32524.2	23034.4	16786.9	10195.3	6191.1
15°	63301.8	77718.3	85194.4	86464.5	85194.4	77718.3	63301.8	46834.8	32593.5	21096.0	12719.0
12.5°	110583.4	132526.4	144735.4	146824.7	144735.4	132526.4	110583.4	84098.1	56148.7	37679.1	23597.1
10°	168674.7	199279.8	219180.0	228162.5	219180.0	199279.8	168674.7	128794.0	92319.9	59685.7	34941.0
7.5°	228280.8	276496.9	315873.2	324800.9	315873.2	276496.9	228280.8	179721.3	130518.6	86546.2	51372.5
5°	302021.6	366671.8	404485.6	413218.4	404485.6	366671.8	302021.6	234111.2	170940.0	112836.6	65068.6
2.5°	356704.6	426214.6	465847.5	487627.2	465847.5	426214.6	356704.6	273691.5	198665.9	129842.3	73583.1
0°	373674.7	436923.7	484570.9	518831.0	484570.9	436923.7	373674.7	285740.6	206829.1	135587.5	76328.4
-2.5°	350705.3	417769.2	452342.3	471603.5	452342.3	417769.2	350705.3	269669.5	197084.2	128842.5	73103.9
-5°	314163.3	375810.1	413514.5	425138.1	413514.5	375810.1	314163.3	246896.9	179290.2	117790.8	65823.5
-7.5°	266288.4	311307.4	339544.4	353782.4	339544.4	311307.4	266288.4	213105.8	152054.3	99984.4	57060.8
-10°	214468.1	248635.3	269697.2	277574.4	269697.2	248635.3	214468.1	167599.9	120028.2	78613.2	43962.8
-12.5°	157084.3	184297.8	200478.7	206721.2	200478.7	184297.8	157084.3	123417.9	87220.1	58124.2	34127.1
-15°	103682.9	123299.9	135746.2	140092.4	135746.2	123299.9	103682.9	81420.5	59514.0	40217.0	22533.8
-17.5°	62842.0	73670.6	81727.6	83759.9	81727.6	73670.6	62842.0	48663.9	36339.1	23660.0	13590.3
-20°	33254.9	38127.8	40849.2	42690.1	40849.2	38127.8	33254.9	24648.0	18633.2	11438.5	8489.8



REPORT NUMBER: P731599 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-2S-CV2

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	15765.4	18419.1	19642.2	20575.7	19642.2	18419.1	15765.4	11974.5	9013.8	7232.3	6098.3
-25°	7890.0	8438.9	8677.9	9012.0	8677.9	8438.9	7890.0	6997.2	5974.5	5560.8	5172.0
-27.5°	5534.2	5662.9	5713.7	5754.7	5713.7	5662.9	5534.2	5337.9	5047.5	4878.4	4634.2
-30°	4822.7	4843.9	4840.8	4837.8	4840.8	4843.9	4822.7	4762.4	4644.7	4524.0	4364.8
-32.5°	4514.2	4536.7	4535.0	4532.1	4535.0	4536.7	4514.2	4464.0	4417.7	4325.0	4175.6
-35°	4236.7	4266.1	4280.6	4287.2	4280.6	4266.1	4236.7	4200.5	4144.1	4054.7	3956.4
-37.5°	4094.6	4100.9	4084.3	4065.3	4084.3	4100.9	4094.6	4052.3	3976.5	3843.2	3754.1
-40°	4241.4	4340.9	4440.8	4471.4	4440.8	4340.9	4241.4	4186.7	4075.5	3904.2	3624.7
-42.5°	4352.4	4416.4	4445.2	4435.8	4445.2	4416.4	4352.4	4260.0	3979.3	3677.3	3276.1
-45°	3853.0	4051.1	4168.5	4197.2	4168.5	4051.1	3853.0	3598.1	3212.2	2765.4	2303.8
-47.5°	2620.3	2842.2	2981.9	3027.0	2981.9	2842.2	2620.3	2357.3	2043.9	1713.9	1403.5
-50°	1428.3	1456.2	1465.4	1457.0	1465.4	1456.2	1428.3	1399.0	1368.7	1335.8	1298.7
-52.5°	1379.4	1396.0	1406.6	1413.0	1406.6	1396.0	1379.4	1364.3	1348.9	1324.3	1296.1
-55°	1383.1	1404.4	1416.1	1421.4	1416.1	1404.4	1383.1	1358.8	1330.3	1280.4	1227.2
-57.5°	1287.6	1311.5	1323.0	1327.2	1323.0	1311.5	1287.6	1260.1	1228.9	1177.6	1121.4
-60°	1171.9	1194.6	1203.5	1205.8	1203.5	1194.6	1171.9	1146.7	1118.9	1073.7	1020.5
-62.5°	1075.4	1102.2	1113.6	1117.9	1113.6	1102.2	1075.4	1045.8	1013.8	967.1	912.8
-65°	916.7	939.6	947.4	948.3	947.4	939.6	916.7	889.9	859.6	817.3	765.6
-67.5°	712.0	732.6	739.9	741.1	739.9	732.6	712.0	688.0	661.2	627.2	585.8
-70°	477.3	487.2	491.4	491.9	491.4	487.2	477.3	464.2	447.9	425.8	396.1
-72.5°	274.8	280.8	282.8	282.6	282.8	280.8	274.8	266.6	256.2	242.3	223.6
-75°	139.1	144.8	146.1	146.5	146.1	144.8	139.1	132.7	125.6	117.7	109.8
-77.5°	78.1	82.9	83.6	83.7	83.6	82.9	78.1	73.1	68.1	63.4	59.8
-80°	52.3	54.2	54.4	54.4	54.4	54.2	52.3	50.3	48.2	46.0	43.8
-82.5°	39.5	41.7	41.9	41.9	41.9	41.7	39.5	37.2	34.9	32.6	31.2
-85°	29.7	31.3	32.4	33.5	32.4	31.3	29.7	28.0	26.3	24.6	23.5
-87.5°	23.7	25.2	26.2	27.2	26.2	25.2	23.7	22.2	20.6	19.1	18.5
-90°	0.5	0.0	0.0	0.0	0.0	0.0	0.5	1.1	1.6	2.1	2.1



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	20.9	17.8	14.7	14.7	14.7	14.7	14.7	14.2	13.7	13.1	12.6
87.5°	3.1	3.6	4.0	4.0	4.1	4.1	4.2	4.7	5.3	5.8	6.3
85°	3.2	3.7	4.2	4.2	4.2	4.2	4.2	4.7	5.3	5.8	6.3
82.5°	3.2	3.7	4.2	4.2	4.2	4.2	4.2	4.8	5.3	5.8	6.3
80°	3.2	3.7	4.2	4.5	4.7	4.8	4.9	5.2	5.5	5.9	6.3
77.5°	3.9	4.0	4.3	4.8	5.4	5.9	6.4	6.9	7.1	7.3	7.4
75°	4.9	5.1	5.5	6.2	6.5	6.3	6.5	7.0	7.6	8.1	8.4
72.5°	9.2	9.5	10.1	11.2	11.9	12.7	12.7	11.9	10.8	9.4	8.4
70°	13.3	14.7	17.0	19.9	21.7	22.6	23.0	22.0	19.2	16.9	14.0
67.5°	15.1	16.7	19.8	23.8	27.2	29.9	33.3	36.6	36.7	33.7	24.1
65°	15.0	17.7	20.6	23.3	26.8	31.5	38.7	43.3	46.3	47.6	39.2
62.5°	12.1	14.3	15.9	18.3	21.6	27.3	36.6	44.2	50.8	52.1	44.1
60°	9.9	10.6	12.1	13.7	15.4	20.3	30.4	40.9	51.8	50.4	45.1
57.5°	9.8	10.7	11.3	11.9	12.5	16.3	23.6	33.7	45.0	44.4	41.4
55°	10.4	11.5	12.5	12.8	12.7	14.6	17.6	23.8	33.0	35.7	34.5
52.5°	12.4	13.2	14.3	15.7	15.9	15.3	15.4	18.9	21.8	25.5	27.6
50°	14.7	15.6	16.1	16.4	17.8	18.1	17.5	17.3	19.1	20.6	21.3
47.5°	22.2	21.9	20.4	20.1	21.5	21.2	20.9	20.6	21.8	20.6	20.5
45°	35.9	34.3	31.1	30.6	29.7	29.1	26.8	28.1	28.2	26.9	22.8
42.5°	67.0	56.9	49.0	49.7	45.1	42.3	38.7	38.5	37.8	35.5	33.1
40°	102.1	101.2	92.1	84.0	76.7	62.8	56.6	51.0	49.3	46.5	46.4
37.5°	146.6	144.7	149.9	145.6	128.4	108.8	87.3	70.7	61.9	68.1	66.6
35°	213.0	214.8	228.5	214.0	200.7	190.7	147.3	106.4	92.2	102.5	95.3
32.5°	303.2	368.1	391.6	350.9	334.9	316.2	254.6	175.8	163.9	157.3	139.6
30°	706.1	645.0	642.2	632.0	607.6	526.1	405.0	400.8	327.9	229.7	197.3
27.5°	1159.5	1002.6	963.1	1058.8	982.8	847.3	767.0	760.7	574.9	396.0	277.1
25°	1746.5	1594.8	1447.9	1527.8	1497.6	1256.6	1166.4	1148.7	992.2	625.7	376.6
22.5°	2426.9	2250.7	2076.2	2009.6	1936.4	1678.5	1527.4	1514.9	1450.5	899.8	563.3
20°	3051.5	2846.1	2623.5	2457.2	2253.6	2001.5	1833.0	1805.2	1630.7	1210.0	759.3
17.5°	4378.4	3470.7	3151.7	2891.2	2619.0	2307.3	2202.8	2085.8	1851.8	1477.2	948.0
15°	6814.0	4811.2	3883.4	3396.9	3102.3	2908.9	2701.2	2452.1	2110.9	1688.4	1207.2
12.5°	13357.1	6966.6	4778.3	4080.4	3830.5	3562.3	3275.9	2901.0	2437.8	2042.0	1602.5
10°	20464.4	10599.3	6343.8	4991.9	4555.9	4226.6	3789.1	3297.7	2822.9	2435.8	2004.3
7.5°	28828.2	15171.4	7962.0	5757.6	5109.3	4665.3	4145.4	3626.2	3160.4	2797.1	2403.6
5°	35167.5	18347.4	9032.0	6304.0	5506.4	5070.6	4484.4	3912.8	3457.7	3130.1	2789.6
2.5°	37822.8	19795.0	9707.6	6793.4	5857.0	5428.5	4804.6	4160.2	3685.7	3341.9	3001.6
0°	40081.7	21184.9	10278.4	7023.3	6139.9	5691.9	5101.5	4377.2	3876.9	3519.0	3179.8
-2.5°	37449.2	19694.6	9735.4	6866.4	5981.0	5484.9	5046.1	4500.3	3982.6	3585.0	3178.1
-5°	33260.6	17017.5	9064.6	6633.0	5830.4	5382.5	5026.7	4593.1	4067.2	3639.4	3127.9
-7.5°	28918.6	14388.0	8254.6	6338.0	5674.2	5324.1	5041.6	4653.8	4141.4	3736.8	3148.8
-10°	21885.5	11500.1	7572.2	6230.6	5646.7	5291.8	5073.2	4679.4	4207.5	3817.5	3105.7
-12.5°	17212.3	9159.9	6886.5	6175.4	5778.6	5422.4	5127.9	4656.0	4270.5	3883.7	2991.6
-15°	11164.5	7788.8	6523.3	6136.2	5891.2	5488.7	5109.1	4558.4	4157.9	3846.2	2801.7
-17.5°	8536.1	6651.9	6028.5	5793.0	5602.9	5426.1	4971.5	4401.0	3919.5	3470.9	2394.1
-20°	6521.0	5934.9	5590.9	5330.1	5103.2	4882.1	4652.1	4102.9	3616.4	2923.8	1980.3



REPORT NUMBER: P731599 (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°	5672.2	5349.4	5096.7	4833.4	4465.4	4273.7	4052.4	3657.7	3247.9	2360.4	1579.7
-25°	5010.4	4808.0	4656.6	4373.7	3944.0	3674.4	3538.0	3251.4	2665.6	1863.0	1242.8
-27.5°	4539.2	4432.8	4311.1	4039.9	3663.5	3331.3	3126.9	2824.5	2095.6	1479.6	1163.9
-30°	4227.7	4182.4	4037.7	3788.3	3443.9	3132.6	2801.7	2227.7	1651.1	1188.3	1102.5
-32.5°	4067.6	3945.5	3767.4	3485.7	3200.5	2917.3	2335.0	1709.4	1253.4	1128.0	1058.0
-35°	3846.5	3638.2	3382.3	3177.5	2986.3	2428.7	1832.6	1335.4	1134.3	1075.9	1019.4
-37.5°	3570.7	3267.8	3076.3	2857.1	2390.4	1871.4	1383.0	1167.6	1091.3	1038.1	959.9
-40°	3342.0	3047.2	2611.2	2217.9	1780.8	1338.0	1199.4	1128.1	1066.6	985.1	887.5
-42.5°	2796.5	2362.1	1967.0	1573.7	1267.4	1214.9	1158.3	1099.7	1020.0	913.7	811.0
-45°	1946.3	1606.6	1304.5	1258.4	1210.4	1168.1	1125.1	1039.5	938.5	836.7	732.9
-47.5°	1322.4	1283.9	1242.1	1204.5	1168.4	1120.8	1039.3	947.8	853.1	757.0	665.5
-50°	1266.9	1242.7	1210.2	1161.9	1094.9	1022.6	941.8	854.7	769.7	686.5	599.3
-52.5°	1259.5	1201.5	1138.7	1070.5	997.7	924.2	845.9	772.8	697.0	616.5	535.0
-55°	1170.5	1107.5	1040.7	970.6	898.6	832.8	765.2	694.8	621.4	545.0	476.2
-57.5°	1062.1	1001.3	939.9	875.9	809.4	743.4	677.0	610.0	546.6	481.9	419.2
-60°	963.1	902.5	843.1	779.4	711.1	645.6	589.7	532.7	474.9	422.0	368.8
-62.5°	858.4	804.6	740.6	674.9	614.3	559.8	507.7	457.4	411.2	364.3	302.3
-65°	712.6	658.7	606.3	556.1	508.7	464.5	420.8	372.6	322.6	274.6	222.0
-67.5°	544.1	502.8	464.1	425.5	383.3	341.1	297.7	255.9	220.2	185.9	146.0
-70°	363.9	329.5	295.8	263.6	236.2	210.7	183.5	155.4	126.7	106.7	88.2
-72.5°	203.6	182.8	162.7	143.6	123.0	109.9	99.0	87.0	73.7	59.1	48.5
-75°	101.2	92.1	83.2	75.7	67.6	59.1	54.2	50.3	46.7	43.3	40.0
-77.5°	56.2	52.6	49.5	47.8	45.8	43.6	41.1	38.7	36.7	34.6	32.5
-80°	41.5	39.3	37.1	35.8	34.6	33.3	32.1	30.4	28.8	27.2	26.1
-82.5°	29.8	28.3	26.9	26.4	25.9	25.3	24.7	23.9	23.1	22.3	21.6
-85°	22.3	21.2	20.1	19.8	19.5	19.1	18.7	18.3	18.0	17.6	17.3
-87.5°	17.9	17.3	16.5	16.0	15.6	15.1	14.7	14.6	14.5	14.3	14.1
-90°	2.1	2.1	2.1	2.6	3.2	3.7	4.2	4.7	5.3	5.8	6.3



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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°	12.1	11.6	11.0	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
87.5°	6.3	6.3	6.3	6.3	6.6	6.8	7.0	7.2	7.4	7.7	8.0
85°	6.3	6.3	6.3	6.3	6.8	7.4	7.8	8.1	8.0	8.1	8.2
82.5°	6.3	6.3	6.3	6.3	6.9	7.4	7.9	8.4	8.4	8.4	8.4
80°	6.3	6.3	6.3	6.4	6.9	7.4	8.0	8.4	8.4	8.4	8.4
77.5°	7.1	6.7	6.4	6.4	7.0	7.5	8.0	8.4	8.4	8.4	8.4
75°	8.4	8.0	7.6	7.3	7.3	7.5	8.0	8.4	8.4	8.4	8.4
72.5°	8.4	8.4	8.4	8.4	8.0	8.0	8.2	8.4	8.4	8.4	8.4
70°	11.1	8.9	8.4	8.4	8.4	8.4	8.3	8.5	8.4	8.4	8.4
67.5°	15.8	12.5	10.1	8.6	8.4	8.4	8.4	8.7	8.7	8.4	8.4
65°	27.9	18.8	12.4	10.3	8.9	8.4	8.4	8.8	9.1	8.9	8.4
62.5°	36.0	27.2	18.7	12.9	9.8	8.7	8.4	8.9	9.4	9.3	8.8
60°	39.8	31.4	24.7	18.3	12.4	8.9	8.6	9.0	9.5	9.9	9.3
57.5°	36.8	33.6	28.7	22.9	16.6	10.8	8.7	9.1	9.6	10.1	9.9
55°	31.7	29.4	30.6	26.5	20.4	14.1	9.8	9.3	9.7	10.2	10.4
52.5°	26.4	27.0	29.2	28.7	23.6	17.3	12.5	9.4	9.8	10.3	10.5
50°	21.9	25.7	28.6	29.3	26.4	20.3	14.8	11.0	10.0	10.4	10.5
47.5°	21.0	25.5	28.2	30.3	28.4	23.1	17.1	12.6	10.1	10.5	10.5
45°	25.0	26.9	29.0	30.5	30.2	24.8	19.3	13.7	11.0	10.6	10.5
42.5°	30.8	31.5	31.9	31.2	30.7	25.9	21.3	15.4	11.8	10.7	10.6
40°	42.4	38.0	36.5	36.4	32.3	26.6	22.0	16.9	12.3	11.1	10.7
37.5°	55.7	48.5	43.4	46.2	36.9	29.2	22.3	18.3	13.6	12.0	11.0
35°	79.3	62.2	58.6	60.1	49.3	32.9	22.3	19.0	15.7	12.9	11.2
32.5°	107.9	91.3	87.3	76.7	65.3	37.6	24.5	20.8	18.0	13.9	11.5
30°	159.5	145.7	125.8	96.0	83.6	52.3	29.8	22.9	20.3	15.1	11.9
27.5°	238.2	208.4	174.2	130.3	101.9	70.3	36.4	25.4	22.7	16.5	12.8
25°	321.4	280.5	234.4	174.8	121.9	94.4	42.7	28.3	24.9	18.5	13.7
22.5°	414.2	354.7	300.0	224.8	153.7	122.1	55.6	33.8	27.1	20.4	14.7
20°	507.9	429.1	372.8	280.9	197.2	148.8	76.7	38.9	29.5	22.3	15.6
17.5°	614.4	522.3	458.5	347.2	244.9	178.0	99.3	43.7	32.0	24.2	16.5
15°	827.7	637.3	549.3	419.8	290.8	209.1	122.8	48.2	34.6	26.0	17.4
12.5°	1086.1	750.8	644.3	496.7	334.5	241.3	146.8	52.4	37.2	27.8	18.2
10°	1370.7	862.3	741.9	575.8	375.9	274.1	170.4	58.8	41.3	29.6	18.9
7.5°	1668.2	970.9	840.0	654.8	419.5	318.1	217.7	70.7	45.7	31.3	19.5
5°	1939.2	1071.1	938.3	748.8	486.7	372.3	269.3	83.0	50.2	32.9	20.1
2.5°	2077.9	1157.9	1032.3	838.9	551.6	424.0	319.6	95.1	54.5	34.3	20.5
0°	2179.2	1239.3	1120.0	921.1	613.4	473.1	366.3	106.8	58.6	35.6	20.9
-2.5°	2145.9	1260.1	1144.3	960.1	678.6	523.0	405.2	137.9	76.5	46.1	25.8
-5°	2080.0	1277.1	1163.8	992.3	738.8	569.7	437.7	167.2	93.7	56.1	30.5
-7.5°	2051.0	1285.6	1175.8	1017.5	792.9	612.7	463.2	194.1	109.7	65.4	34.8
-10°	1987.0	1287.5	1178.0	1016.5	796.9	629.9	477.1	217.7	124.1	73.6	38.6
-12.5°	1863.7	1286.8	1178.7	1006.0	786.5	622.7	458.5	231.7	136.6	80.7	41.8
-15°	1675.3	1283.7	1178.8	985.4	769.6	612.0	437.9	240.1	146.5	87.0	44.3
-17.5°	1407.6	1278.7	1179.3	954.0	745.9	597.6	416.3	245.7	154.5	92.8	47.2
-20°	1304.2	1244.4	1173.0	911.5	715.1	579.6	394.8	248.5	160.7	97.1	49.9



REPORT NUMBER: P731599 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-2S-CV2

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1242.2	1185.3	1082.1	870.8	683.8	557.8	374.3	248.4	164.9	99.8	51.3
-25°	1172.7	1123.8	987.2	808.6	656.6	525.8	363.1	245.2	166.9	100.7	51.2
-27.5°	1103.0	1050.0	899.3	746.8	620.2	497.8	357.4	246.4	167.1	99.7	49.6
-30°	1032.9	955.5	826.6	690.3	581.8	462.2	348.1	245.1	165.6	97.7	46.4
-32.5°	982.0	873.0	758.9	645.8	540.1	425.2	327.1	240.9	161.5	94.0	44.7
-35°	919.9	806.6	695.3	599.8	496.7	393.8	302.6	233.8	154.9	87.9	43.0
-37.5°	854.7	744.8	643.9	552.0	452.5	360.6	282.2	215.9	145.6	79.3	40.3
-40°	785.3	684.2	593.1	503.1	412.5	325.6	260.3	196.0	133.8	68.3	36.7
-42.5°	713.9	625.7	540.0	453.8	372.5	299.5	236.6	174.4	115.4	60.5	32.2
-45°	646.9	565.0	485.2	408.8	332.8	272.0	210.8	151.3	95.4	54.2	28.6
-47.5°	578.2	504.8	433.6	363.3	301.1	242.4	182.9	127.9	74.7	46.5	27.4
-50°	513.2	447.9	384.9	325.0	268.4	209.5	154.1	103.6	63.6	36.9	25.9
-52.5°	459.4	396.7	341.4	288.2	231.1	174.7	126.3	79.5	51.7	32.2	24.2
-55°	409.0	350.1	300.6	246.0	190.8	142.3	97.5	64.8	38.9	29.5	22.3
-57.5°	362.6	306.4	252.1	199.1	152.0	109.4	75.2	49.0	33.5	26.8	21.1
-60°	312.7	251.2	198.2	154.2	113.5	81.0	56.1	36.6	30.3	24.2	19.8
-62.5°	244.2	191.5	147.9	109.7	81.5	58.5	38.9	33.0	27.0	22.5	18.3
-65°	176.3	134.5	98.3	77.1	56.0	40.1	34.7	29.2	24.8	20.8	17.0
-67.5°	108.9	87.5	67.5	48.6	40.3	35.2	30.3	26.5	22.8	19.0	16.0
-70°	69.6	52.1	44.0	39.2	34.5	30.4	27.4	24.2	20.7	17.9	15.0
-72.5°	44.7	40.8	36.8	32.8	30.2	27.5	24.8	22.0	19.3	16.7	14.0
-75°	36.6	33.8	31.6	29.4	27.0	24.6	22.5	20.5	18.0	15.4	13.3
-77.5°	30.5	28.8	27.4	25.7	23.6	21.7	20.3	18.9	16.6	14.5	12.6
-80°	25.1	24.0	22.6	21.2	19.8	18.8	18.1	17.3	15.4	13.6	11.9
-82.5°	20.5	19.4	18.5	17.6	17.2	16.7	16.3	15.7	14.1	12.6	11.4
-85°	16.7	16.2	15.7	15.3	15.0	14.7	14.4	14.0	12.9	11.9	11.1
-87.5°	13.8	13.6	13.3	12.9	12.8	12.6	12.4	12.3	11.7	11.2	10.8
-90°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.8	7.4	7.9



REPORT NUMBER: P731599 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	10.5	10.0	9.5	8.9	8.4	8.4	8.4
87.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4
85°	8.4	8.4	8.4	8.4	8.4	8.4	8.4
82.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4
80°	8.4	8.4	8.4	8.4	8.4	8.4	8.4
77.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4
75°	8.4	8.4	8.4	8.4	8.4	8.4	8.4
72.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4
70°	8.4	8.4	8.4	8.4	8.4	8.4	8.4
67.5°	8.5	8.4	8.4	8.4	8.4	8.4	8.4
65°	8.5	8.5	8.4	8.4	8.4	8.4	8.4
62.5°	8.7	8.6	8.4	8.4	8.4	8.4	8.4
60°	8.8	8.8	8.4	8.4	8.4	8.4	8.4
57.5°	9.2	9.0	8.6	8.4	8.4	8.4	8.4
55°	9.6	9.2	8.8	8.4	8.5	8.4	8.4
52.5°	10.0	9.5	9.0	8.4	8.5	8.4	8.4
50°	10.3	9.7	9.3	8.4	8.5	8.4	8.4
47.5°	10.5	9.9	9.5	8.4	8.6	8.4	8.4
45°	10.5	10.1	9.8	8.6	8.7	8.4	8.4
42.5°	10.5	10.3	10.0	8.8	8.7	8.4	8.4
40°	10.5	10.4	10.2	9.1	8.8	8.4	8.4
37.5°	10.5	10.5	10.3	9.3	8.9	8.4	8.4
35°	10.5	10.5	10.4	9.5	9.0	8.4	8.4
32.5°	10.6	10.5	10.4	9.7	9.1	8.4	8.4
30°	10.8	10.5	10.5	9.9	9.2	8.4	8.4
27.5°	11.0	10.5	10.5	10.0	9.3	8.4	8.4
25°	11.3	10.5	10.5	10.1	9.4	8.4	8.4
22.5°	11.5	10.5	10.5	10.2	9.5	8.4	8.4
20°	11.8	10.7	10.5	10.3	9.6	8.4	8.4
17.5°	12.2	10.9	10.5	10.4	9.7	8.4	8.4
15°	12.6	11.1	10.5	10.4	9.8	8.4	8.4
12.5°	13.0	11.3	10.5	10.5	10.0	8.4	8.4
10°	13.4	11.6	10.5	10.5	10.1	8.4	8.4
7.5°	13.7	11.8	10.5	10.5	10.2	8.4	8.4
5°	14.1	12.1	10.5	10.5	10.3	8.4	8.4
2.5°	14.4	12.4	10.5	10.5	10.4	8.4	8.4
0°	14.7	12.6	10.5	10.5	10.5	8.4	8.4
-2.5°	16.4	13.0	10.7	10.6	10.5	8.4	8.4
-5°	17.9	13.5	10.9	10.8	10.5	8.5	8.4
-7.5°	19.4	13.8	11.1	10.9	10.5	8.5	8.4
-10°	20.7	14.2	11.2	11.0	10.4	8.6	8.4
-12.5°	21.9	14.5	11.4	11.1	10.4	8.6	8.4
-15°	22.8	14.7	11.6	11.2	10.4	8.7	8.4
-17.5°	23.4	14.9	11.8	11.3	10.4	8.7	8.4
-20°	24.1	15.0	11.9	11.4	10.3	8.7	8.4



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 CATALOG NUMBER: EPH-LS-08-0680N-40-70-2S-CV2

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	25.0	15.0	12.1	11.4	10.3	8.8	8.4
-25°	25.3	15.2	12.3	11.5	10.3	8.8	8.4
-27.5°	25.1	15.5	12.5	11.5	10.2	8.8	8.4
-30°	24.3	15.6	12.6	11.4	10.2	8.9	8.4
-32.5°	22.9	15.6	12.9	11.4	10.2	8.9	8.4
-35°	22.3	15.4	13.1	11.3	10.2	8.9	8.4
-37.5°	22.1	15.3	13.2	11.2	10.2	8.9	8.4
-40°	21.7	15.5	13.3	11.1	10.1	8.9	8.4
-42.5°	21.1	15.5	13.2	11.0	10.1	8.9	8.4
-45°	20.3	15.5	13.0	10.8	10.1	8.9	8.4
-47.5°	19.2	15.3	12.8	10.7	10.1	8.9	8.4
-50°	18.8	15.1	12.6	10.6	10.1	8.9	8.4
-52.5°	18.2	14.7	12.3	10.7	10.2	8.9	8.4
-55°	17.6	14.3	12.0	10.7	10.2	8.9	8.4
-57.5°	16.7	13.8	11.6	10.7	10.2	8.9	8.4
-60°	15.8	13.3	11.3	10.7	10.2	8.9	8.4
-62.5°	15.1	12.8	11.2	10.6	10.1	8.8	8.4
-65°	14.3	12.2	11.1	10.6	10.0	8.8	8.4
-67.5°	13.4	11.7	11.0	10.6	9.9	8.8	8.4
-70°	12.5	11.5	10.8	10.5	9.7	8.7	8.4
-72.5°	12.0	11.2	10.7	10.3	9.6	8.7	8.4
-75°	11.6	10.9	10.5	10.1	9.4	8.7	8.4
-77.5°	11.1	10.6	10.3	9.9	9.3	8.6	8.4
-80°	10.6	10.4	10.2	9.7	9.1	8.6	8.4
-82.5°	10.5	10.3	10.0	9.5	8.9	8.5	8.4
-85°	10.5	10.2	9.8	9.3	8.8	8.5	8.4
-87.5°	10.5	10.1	9.6	9.1	8.6	8.4	8.4
-90°	8.4	8.4	8.4	8.4	8.4	8.4	8.4

(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

