

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: P701495 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-40-80-4S-CV1-S**

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701495 (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: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0640L-40-80-4S-CV1-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 4S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

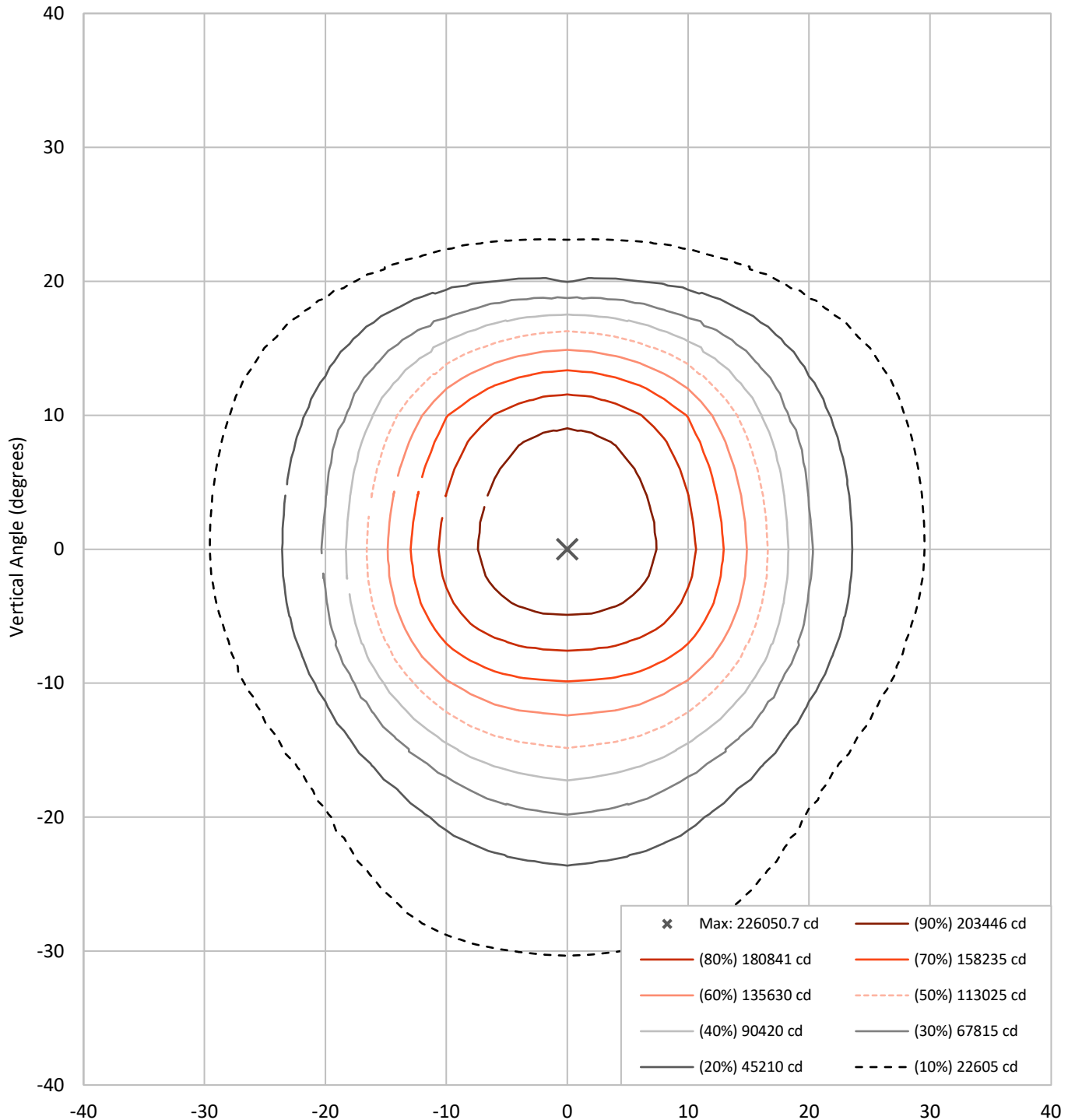
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	77020.1 lumens	Max Intensity:	226050.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	117.1 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:	42094.5 lumens	Field Lumens:	67827.9 lumens
Beam Efficiency:	54.7%	Field Efficiency:	88.1%

Input Watts (W): 658
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





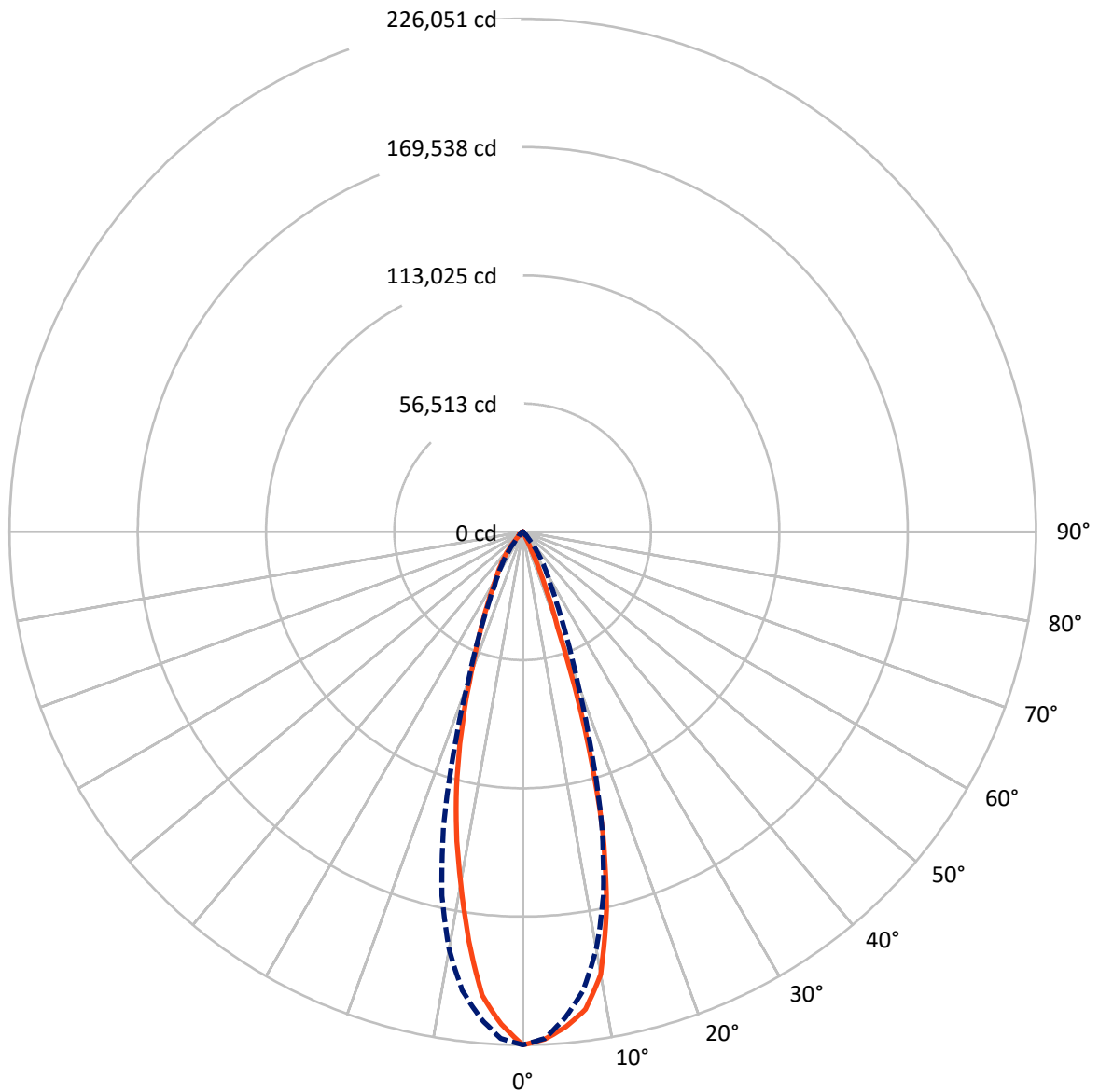
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Lumen Table

90																
80	0.1	0.2		0.4		0.4		0.4		0.4		0.4		0.2	0.1	
70																
60	0.1	0.0	0.1	0.4	0.6	0.4	0.3	0.3	0.3	0.3	0.4	0.6	0.4	0.1	0.0	0.1
50		0.1	0.3	0.8	0.8	0.3	0.3	0.3	0.3	0.3	0.3	0.8	0.8	0.3	0.1	
40	0.1	0.1	0.4	0.5	0.6	0.7	0.9	0.9	0.9	0.9	0.7	0.6	0.5	0.4	0.1	0.1
30		0.2	0.8	2.3	4.2	7.2	11.0	13.6	13.6	11.0	7.2	4.2	2.3	0.8	0.2	
20	0.1	0.4	3.8	11.6	45.7	142.8	285.8	464.1	464.1	285.8	142.8	45.7	11.6	3.8	0.4	0.1
10		1.2	8.6	27.9	188.9	645.3	1926.0	3590.8	3590.8	1926.0	645.3	188.9	27.9	8.6	1.2	
0	0.2	1.9	11.8	39.9	294.4	1048.6	3595.6	6158.6	6158.6	3595.6	1048.6	294.4	39.9	11.8	1.9	0.2
-10		2.4	12.6	41.0	290.6	1011.5	3480.2	5732.6	5732.6	3480.2	1011.5	290.6	41.0	12.6	2.4	
-20	0.4	2.9	12.0	31.6	172.8	571.5	1756.3	3130.6	3130.6	1756.3	571.5	172.8	31.6	12.0	2.9	0.4
-30		3.0	11.5	24.4	81.4	309.8	713.7	1138.6	1138.6	713.7	309.8	81.4	24.4	11.5	3.0	
-40	0.4	2.4	10.4	20.8	40.1	115.1	288.2	437.8	437.8	288.2	115.1	40.1	20.8	10.4	2.4	0.4
-50		1.6	7.5	17.8	30.0	45.8	69.7	94.6	94.6	69.7	45.8	30.0	17.8	7.5	1.6	
-60	0.2	0.8	3.9	11.6	22.5	32.5	41.8	47.8	47.8	41.8	32.5	22.5	11.6	3.9	0.8	0.2
-70		0.3	1.4	4.1	9.0	15.1	21.3	24.7	24.7	21.3	15.1	9.0	4.1	1.4	0.3	
-80																
-90	0.1	0.7		2.9		7.2		9.6		7.2		2.9		0.7	0.1	

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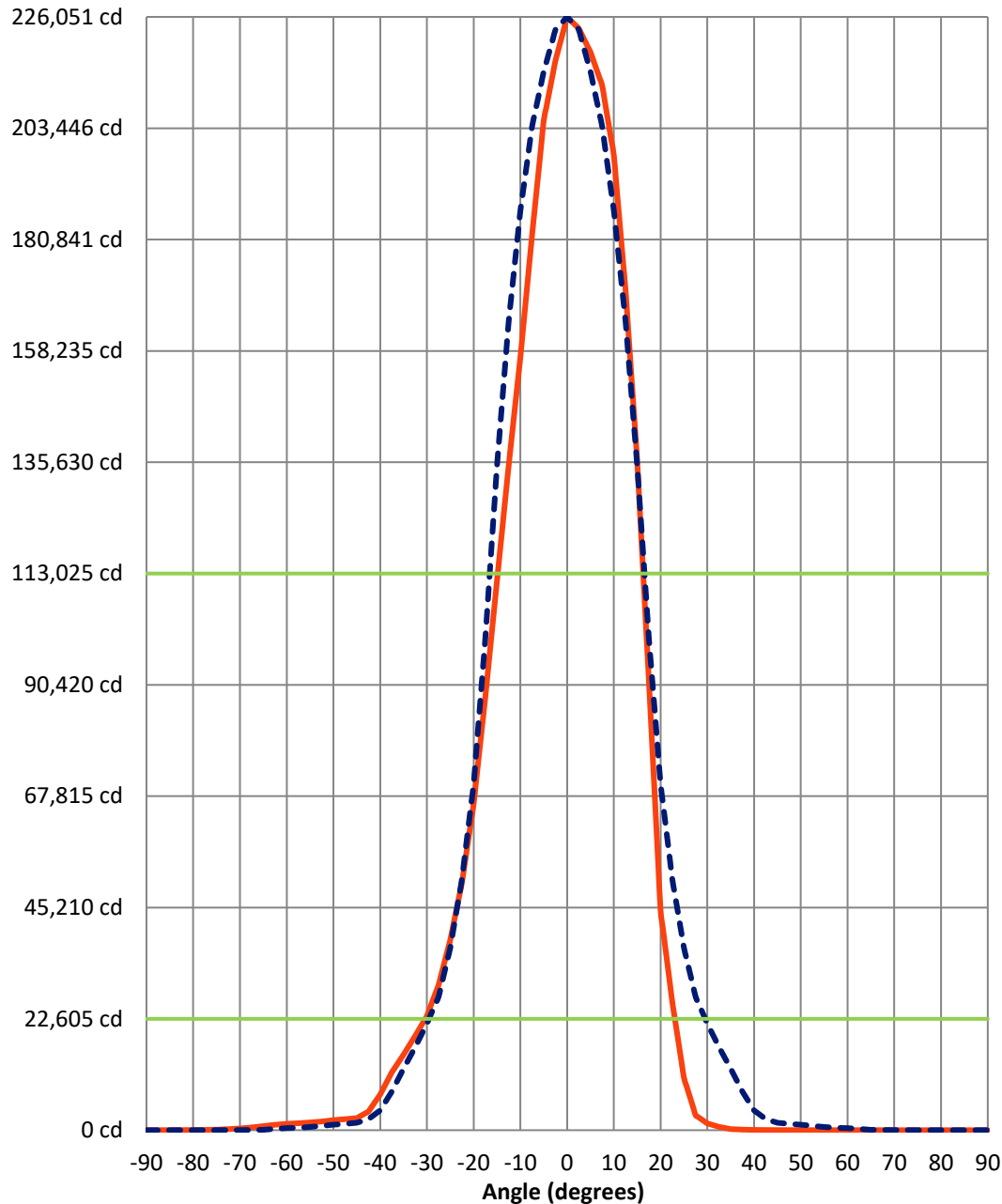
Luminous Intensity Polar Plot



— 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: 42094.5
Efficiency: 54.7%

Field:
H Angle: 59.1°
V Angle: 53.4°
Lumens: 67827.9
Efficiency: 88.1%

Spill:
Lumens: 9192.2
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°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
87.5°	3.9	3.0	2.2	2.2	2.2	2.1	2.0	2.0	2.0	2.0	2.0
85°	3.9	3.0	2.3	2.4	2.3	2.2	2.0	2.0	2.0	2.0	2.0
82.5°	3.9	3.1	2.5	2.6	2.5	2.3	2.0	2.0	2.0	2.1	2.0
80°	3.9	3.1	2.7	2.8	2.7	2.4	2.1	2.3	2.4	2.3	2.0
77.5°	3.9	3.2	2.8	2.9	2.9	2.6	2.6	2.7	2.7	2.5	2.3
75°	3.9	3.2	3.0	3.1	3.0	2.9	3.1	3.2	3.1	3.0	3.0
72.5°	3.9	3.3	3.2	3.3	3.2	3.2	3.5	3.6	3.4	3.5	3.8
70°	3.9	3.3	3.3	3.5	3.4	3.5	3.9	3.7	3.7	3.9	3.9
67.5°	3.9	3.4	3.5	3.6	3.5	3.8	3.9	3.8	3.9	3.9	3.9
65°	3.9	3.4	3.6	3.6	3.7	3.9	3.9	3.9	3.9	3.9	3.9
62.5°	3.9	3.4	3.8	3.7	3.8	3.9	3.9	3.9	3.9	3.9	3.9
60°	3.9	3.5	3.9	3.8	3.9	3.9	3.9	3.9	3.9	3.9	3.9
57.5°	3.9	3.5	3.9	3.8	3.9	3.9	3.9	3.9	3.9	3.9	3.9
55°	3.9	3.6	3.9	3.8	3.9	3.9	3.9	3.9	3.9	3.9	3.9
52.5°	3.9	3.6	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
50°	3.9	3.6	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.1
47.5°	3.9	3.7	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	6.4
45°	3.9	3.7	3.9	3.9	3.9	3.9	3.9	3.9	4.0	5.0	7.6
42.5°	3.9	3.7	3.9	3.9	3.9	3.9	3.9	4.0	4.1	6.1	9.2
40°	3.9	3.8	3.9	3.9	3.9	3.9	3.9	4.1	4.6	7.1	10.9
37.5°	3.9	3.8	3.9	3.9	3.9	3.9	3.9	4.3	5.6	8.4	12.6
35°	3.9	3.8	3.9	3.9	3.9	3.9	3.9	4.6	6.5	9.9	14.1
32.5°	3.9	3.8	3.9	3.9	3.9	3.9	4.0	4.8	7.4	11.4	15.5
30°	3.9	3.8	3.9	3.9	3.9	3.9	4.2	5.3	8.3	12.8	17.2
27.5°	3.9	3.9	3.9	3.9	3.9	3.9	4.4	6.0	9.3	14.1	19.2
25°	3.9	3.9	3.9	3.9	3.9	3.9	4.6	6.7	10.4	15.6	21.5
22.5°	3.9	3.9	3.9	3.9	3.9	3.9	4.9	7.3	11.4	17.3	26.1
20°	3.9	3.9	3.9	3.9	3.9	4.1	5.1	7.9	12.3	19.0	31.0
17.5°	3.9	3.9	3.9	3.9	3.9	4.3	5.5	8.4	13.1	20.9	36.3
15°	3.9	3.9	3.9	3.9	3.9	4.5	5.9	9.1	13.9	22.7	41.8
12.5°	3.9	3.9	3.9	3.9	3.9	4.7	6.3	9.9	15.2	24.6	47.3
10°	3.9	3.9	3.9	3.9	3.9	4.9	6.6	10.7	16.9	27.9	53.1
7.5°	3.9	3.9	3.9	3.9	3.9	5.2	6.9	11.6	18.6	31.4	59.2
5°	3.9	3.9	3.9	3.9	3.9	5.4	7.2	12.3	20.3	34.8	64.7
2.5°	3.9	3.9	3.9	3.9	3.9	5.7	7.5	13.0	21.9	38.0	69.8
0°	3.9	3.9	3.9	3.9	3.9	5.9	7.8	13.7	23.4	41.0	74.2
-2.5°	3.9	3.9	3.9	3.9	4.1	6.5	9.6	17.3	31.5	55.3	95.6
-5°	3.9	3.9	3.9	3.9	4.2	7.1	11.4	20.8	39.2	69.1	116.0
-7.5°	3.9	3.9	3.9	3.9	4.4	7.7	13.0	24.1	46.3	81.8	135.0
-10°	3.9	3.9	3.9	3.9	4.6	8.2	14.5	27.1	52.7	93.3	152.1
-12.5°	3.9	3.9	3.9	3.9	4.7	8.6	15.9	29.7	58.1	103.2	167.2
-15°	3.9	3.9	3.9	3.9	4.8	8.9	17.0	31.9	62.5	110.7	179.6
-17.5°	3.9	3.9	3.9	3.9	4.9	9.2	17.8	34.0	65.9	116.4	188.8
-20°	3.9	3.9	3.9	3.9	4.9	9.3	18.6	35.8	68.0	120.0	194.4



REPORT NUMBER: P701495 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-CV1-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	3.9	3.9	3.9	3.9	5.0	9.3	19.2	37.0	68.7	121.3	196.1
-25°	3.9	3.9	3.9	3.9	5.0	9.4	19.5	37.5	68.0	120.1	193.7
-27.5°	3.9	3.9	3.9	3.9	4.9	9.4	19.4	37.3	65.8	117.5	191.9
-30°	3.9	3.9	3.9	3.9	4.8	9.2	18.9	36.3	64.3	114.7	187.0
-32.5°	3.9	3.9	3.9	3.9	4.9	8.9	18.0	35.5	63.0	109.7	178.6
-35°	3.9	3.9	3.9	3.9	4.9	8.3	17.3	34.3	60.7	102.6	166.6
-37.5°	3.9	3.9	3.9	3.9	4.9	7.9	16.6	32.5	57.2	93.2	151.8
-40°	3.9	3.9	3.9	3.9	4.9	7.9	15.6	30.0	52.7	86.5	137.0
-42.5°	3.9	3.9	3.9	3.9	4.9	7.8	14.4	26.8	48.5	78.9	119.9
-45°	3.9	3.9	3.9	4.0	5.0	7.6	12.9	23.8	44.0	70.2	102.0
-47.5°	3.9	3.9	3.9	4.0	5.0	7.4	11.0	21.7	38.7	60.7	91.2
-50°	3.9	3.9	3.9	4.0	5.0	7.2	10.5	19.1	32.0	52.8	79.3
-52.5°	3.9	3.9	3.9	4.1	5.0	6.9	10.1	16.2	27.1	44.1	66.7
-55°	3.9	3.9	3.9	4.1	4.9	6.7	9.7	13.2	23.0	34.5	55.5
-57.5°	3.9	3.9	3.9	4.1	4.8	6.5	9.1	12.5	18.7	28.4	43.4
-60°	3.9	3.9	3.9	4.0	4.6	6.2	8.6	11.7	14.9	23.3	32.7
-62.5°	3.9	3.9	3.9	4.0	4.6	5.8	8.0	10.8	13.8	17.9	26.6
-65°	3.9	3.9	3.9	4.0	4.5	5.4	7.4	9.9	12.5	15.6	20.3
-67.5°	3.9	3.9	3.9	4.0	4.3	5.1	6.6	8.9	11.2	14.0	17.0
-70°	3.9	3.9	3.9	3.9	4.2	4.8	5.8	7.9	10.1	12.3	15.0
-72.5°	3.9	3.9	3.9	3.9	4.1	4.6	5.4	6.9	8.9	11.0	13.0
-75°	3.9	3.9	3.9	3.9	3.9	4.3	4.9	6.1	7.7	9.6	11.5
-77.5°	3.9	3.9	3.9	3.9	3.9	4.0	4.4	5.5	6.8	8.3	10.0
-80°	3.9	3.9	3.9	3.9	3.9	3.9	4.0	4.8	5.9	7.1	8.5
-82.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	4.3	4.9	5.9	6.9
-85°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	4.2	4.6	5.0	5.6
-87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	4.0	4.2	4.5	4.7
-90°	3.9	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



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 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-CV1-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.4	2.6	2.7
80°	2.0	2.0	2.1	2.0	2.2	2.5	2.9	3.5	3.8	3.9	3.9
77.5°	2.5	2.5	2.4	2.1	2.3	2.8	3.3	3.8	3.9	3.9	3.9
75°	3.2	3.1	2.6	2.2	2.3	2.8	3.3	3.8	3.9	3.9	3.9
72.5°	3.6	3.2	2.7	2.2	2.6	3.2	3.7	3.9	4.8	6.0	6.7
70°	3.7	3.2	3.0	3.1	3.6	4.3	6.0	8.2	10.2	11.0	11.8
67.5°	3.8	3.6	3.6	4.1	5.5	7.4	9.8	12.9	15.9	17.0	18.2
65°	3.9	3.8	4.4	5.7	7.6	10.6	14.0	17.5	22.8	25.5	26.8
62.5°	3.9	4.2	5.2	7.3	10.6	14.1	18.5	24.4	31.4	36.0	35.8
60°	3.9	4.4	6.5	9.8	13.4	17.6	23.3	31.4	41.4	48.6	43.8
57.5°	3.9	5.2	8.4	12.0	15.9	20.6	28.6	38.5	47.7	57.3	49.1
55°	4.5	6.7	10.1	13.9	18.5	24.2	32.0	39.9	49.8	53.5	44.7
52.5°	6.0	8.2	11.6	16.0	21.6	26.1	30.4	37.4	41.2	42.9	36.8
50°	7.4	9.9	13.0	18.5	23.3	25.8	26.4	30.7	32.5	31.0	28.1
47.5°	9.1	11.6	14.9	20.2	23.5	24.6	23.7	24.5	24.4	24.1	20.3
45°	10.8	13.8	17.2	20.8	23.3	23.0	22.6	19.8	22.5	21.7	20.0
42.5°	12.6	15.8	19.2	21.7	22.3	23.5	23.3	24.1	24.2	25.3	27.3
40°	14.3	17.7	21.6	23.3	22.7	26.3	31.5	34.2	30.7	37.1	42.6
37.5°	15.8	20.1	25.1	29.1	26.8	34.8	43.3	57.1	59.1	54.9	70.0
35°	17.1	22.8	33.3	42.6	44.9	48.6	72.7	94.6	108.2	100.2	111.8
32.5°	19.2	25.8	44.5	64.7	80.8	85.3	110.6	156.6	183.3	187.9	180.3
30°	22.5	36.3	61.3	92.7	128.6	160.8	183.0	235.4	279.2	327.0	355.4
27.5°	27.5	49.8	88.2	136.9	191.0	251.1	301.0	341.4	421.6	502.9	572.8
25°	33.4	77.5	118.9	192.1	278.0	360.9	430.4	492.4	598.1	725.0	937.3
22.5°	47.8	112.9	170.3	254.1	374.7	479.8	573.5	670.0	798.9	969.9	1414.0
20°	73.7	157.2	228.8	318.1	474.6	603.7	722.6	844.0	1005.4	1363.5	2337.8
17.5°	103.5	203.4	285.1	388.6	549.1	713.2	876.3	1010.1	1205.6	1734.1	3355.1
15°	136.2	251.0	335.9	453.0	619.6	798.2	980.5	1171.9	1470.1	2228.0	4320.7
12.5°	170.8	299.1	381.8	511.5	685.8	879.0	1064.0	1271.3	1708.9	2977.2	5549.2
10°	206.1	347.0	423.1	564.1	747.3	954.8	1138.6	1355.0	1895.9	3456.8	6407.1
7.5°	228.7	380.9	456.9	611.0	803.5	1024.9	1204.6	1424.0	2054.4	3761.2	7006.7
5°	245.7	398.3	468.0	632.0	840.4	1075.9	1255.6	1479.4	2182.1	3910.0	7421.1
2.5°	258.7	411.9	477.1	644.7	862.9	1099.8	1270.9	1500.2	2235.0	4000.0	7708.2
0°	267.5	421.7	484.2	652.1	878.5	1114.8	1278.8	1511.1	2243.2	4025.6	7848.2
-2.5°	282.1	429.5	498.8	665.3	886.8	1119.5	1285.3	1519.6	2276.0	4146.0	8062.1
-5°	292.9	434.0	511.2	673.4	888.0	1116.0	1285.3	1517.6	2257.0	4104.2	7792.3
-7.5°	300.2	435.9	521.0	676.1	876.2	1091.6	1259.1	1474.3	2138.6	3840.3	7059.4
-10°	305.5	442.3	533.3	672.0	850.3	1051.8	1222.2	1421.7	1986.0	3469.4	6210.3
-12.5°	313.7	452.6	545.3	665.9	823.2	1006.3	1179.3	1360.8	1801.0	2991.8	5250.4
-15°	317.8	461.2	556.5	658.9	796.5	955.7	1130.7	1292.0	1593.8	2415.4	4184.7
-17.5°	317.9	468.3	567.1	651.8	771.9	900.7	1082.1	1242.1	1447.7	2061.1	3441.9
-20°	313.9	474.3	577.4	645.4	751.5	866.6	1042.4	1207.0	1388.0	1795.7	2704.9



REPORT NUMBER: P701495 (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°	305.8	479.5	584.0	650.5	744.0	852.4	997.1	1164.9	1325.9	1512.3	2142.3
-25°	300.5	466.6	584.8	655.7	736.2	837.3	948.1	1115.4	1267.9	1447.4	1846.0
-27.5°	296.9	449.0	574.2	657.0	726.4	822.6	919.9	1057.2	1223.5	1390.3	1572.5
-30°	287.7	416.9	559.3	650.9	722.4	809.0	900.8	1004.2	1172.6	1334.3	1502.1
-32.5°	269.4	383.2	526.4	631.3	716.0	794.0	881.3	974.4	1107.6	1274.4	1428.6
-35°	248.2	357.1	485.7	606.8	703.3	779.2	859.0	946.9	1045.0	1196.5	1367.9
-37.5°	228.5	326.7	444.0	570.5	671.8	763.7	833.3	916.7	1007.8	1112.2	1283.5
-40°	205.1	292.2	404.8	523.9	637.6	738.4	816.7	883.5	967.7	1074.0	1180.2
-42.5°	179.2	262.3	362.6	476.1	588.6	696.0	797.5	862.7	937.1	1036.2	1137.8
-45°	157.7	228.5	317.3	422.4	530.8	642.9	745.9	847.7	919.0	998.5	1095.0
-47.5°	133.7	193.6	274.9	364.5	467.8	574.3	684.7	790.5	899.3	975.4	1051.1
-50°	110.6	163.9	227.8	310.3	400.2	500.7	604.5	720.7	830.3	936.3	1024.2
-52.5°	96.1	131.4	188.8	255.3	335.4	422.7	521.8	629.1	742.2	854.8	951.3
-55°	80.4	110.1	149.6	206.5	271.9	348.6	433.8	532.1	634.5	742.4	844.6
-57.5°	65.3	91.0	120.3	160.1	215.5	275.9	349.8	430.7	522.7	618.2	703.6
-60°	50.1	72.0	97.1	125.9	161.1	212.9	265.9	332.9	409.4	486.4	560.9
-62.5°	35.6	53.4	74.4	98.2	125.9	154.0	196.3	245.2	296.0	358.5	420.2
-65°	28.5	36.9	52.5	72.4	93.5	117.8	142.9	168.7	210.1	251.5	291.0
-67.5°	21.0	28.5	36.4	46.8	64.8	82.9	102.5	124.9	147.5	168.6	193.8
-70°	17.8	20.5	26.5	33.7	40.8	49.3	65.1	82.0	99.4	116.0	133.6
-72.5°	15.4	17.9	20.3	22.7	28.3	33.6	38.6	43.1	53.1	66.9	80.3
-75°	13.2	15.2	17.4	19.6	21.4	23.1	25.3	29.5	33.7	37.7	41.5
-77.5°	11.2	12.5	14.2	16.2	17.8	18.9	20.2	21.6	23.4	25.5	27.7
-80°	9.2	9.8	10.7	12.0	13.4	14.6	15.6	16.5	17.6	19.0	20.5
-82.5°	7.4	7.8	8.3	8.7	9.5	10.3	11.3	12.4	13.0	13.7	14.4
-85°	5.7	5.9	6.2	6.5	6.8	7.3	7.8	8.3	8.9	9.4	9.9
-87.5°	4.8	4.9	5.0	5.0	5.1	5.2	5.3	5.3	5.7	6.2	6.6
-90°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	3.9	4.4	4.9	5.4	5.9	6.4	6.9	7.3	7.8	7.8	7.8
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	2.9	2.8	2.6	2.3	2.0	2.0	2.0	2.0	2.0	2.0	2.0
80°	3.9	3.6	3.4	3.3	3.2	3.0	2.8	2.4	2.0	2.0	2.0
77.5°	3.9	3.9	3.9	3.9	3.9	3.5	3.0	2.6	2.1	2.0	2.0
75°	3.9	4.0	4.3	4.3	4.0	3.7	3.6	3.5	3.5	3.3	2.9
72.5°	7.0	6.9	6.6	6.6	6.3	6.3	6.3	6.1	5.6	5.5	5.6
70°	12.4	12.9	12.8	12.4	11.2	10.0	9.3	8.5	7.6	7.2	6.8
67.5°	19.2	19.4	18.3	16.6	13.8	11.4	10.3	9.3	8.3	8.0	8.4
65°	26.7	24.3	21.4	18.2	14.7	11.5	10.7	10.0	9.5	9.5	10.2
62.5°	33.0	26.6	21.4	17.7	14.5	11.5	10.6	9.8	9.0	8.4	8.3
60°	36.4	26.8	19.3	15.9	12.9	10.2	9.0	8.4	8.0	7.8	7.8
57.5°	36.5	25.3	16.8	13.8	11.1	8.7	7.8	7.8	7.8	7.8	7.8
55°	32.4	22.1	14.4	11.8	10.1	8.6	7.9	8.1	8.1	7.8	8.2
52.5°	25.4	18.3	13.3	11.1	10.3	9.8	9.6	9.5	9.3	9.1	9.4
50°	20.2	15.2	12.8	11.5	11.5	11.6	11.5	11.7	12.0	12.2	12.3
47.5°	16.9	14.2	14.5	13.4	13.9	15.1	15.3	15.5	16.1	16.2	15.9
45°	17.3	20.1	20.7	20.5	20.1	22.9	22.8	20.9	23.4	24.1	23.6
42.5°	28.7	31.1	32.7	34.2	35.9	38.0	39.2	38.6	40.8	40.7	38.1
40°	48.5	46.2	49.9	54.4	58.3	59.8	63.5	67.3	68.7	68.0	65.4
37.5°	79.5	76.1	76.4	86.4	95.5	84.7	100.6	106.9	102.9	117.2	120.0
35°	132.1	146.2	126.0	161.6	179.3	170.5	189.6	227.2	198.1	251.4	264.4
32.5°	234.9	268.6	289.6	319.7	363.9	422.0	436.7	529.4	559.0	602.0	648.3
30°	383.9	478.8	653.5	686.0	728.1	928.5	983.6	1034.0	1139.5	1220.9	1359.1
27.5°	697.7	953.3	1318.6	1640.1	1616.5	1955.6	2332.9	1910.4	2537.3	2285.8	2887.1
25°	1306.5	1870.2	2750.8	3602.8	4009.4	4700.3	5564.3	5400.8	6540.8	6619.9	8301.4
22.5°	2484.8	3709.7	5056.1	6504.5	7909.6	9464.5	10958.7	12525.2	14880.2	18134.0	21296.5
20°	4065.6	5866.4	8041.1	10283.7	12661.9	15080.2	17889.8	22647.7	27525.9	34297.5	39081.3
17.5°	5778.4	8644.6	11314.1	14092.7	17417.4	21437.1	27248.8	35378.5	45239.5	55361.9	63192.6
15°	7274.6	10517.0	14364.9	18069.2	22203.5	28237.3	37365.1	49406.9	64071.3	79459.5	98067.6
12.5°	8722.3	12109.1	16290.7	20976.1	26594.2	35230.3	47062.2	63335.4	82762.2	105886.0	129785.9
10°	9845.7	13561.9	18216.0	23492.6	30349.7	40956.5	54706.0	73918.7	102706.3	130003.8	157295.8
7.5°	10723.7	14904.1	19834.0	25372.0	33356.2	45299.5	61749.6	85934.9	116351.3	145886.3	171024.2
5°	11504.0	16007.8	20930.3	26431.2	35520.4	48459.3	66173.8	93794.4	126252.8	155280.1	179200.9
2.5°	12118.6	16729.5	21532.4	26961.7	36913.6	50203.6	68506.9	98012.3	132635.1	161292.7	184133.8
0°	12490.8	16858.1	21633.4	27074.5	37019.5	50994.0	70327.6	99858.1	134911.6	164235.1	186700.2
-2.5°	12357.4	16569.9	21306.1	26743.3	36670.3	50253.3	68863.2	98922.8	132982.6	160417.4	183011.4
-5°	11693.2	15626.9	20024.8	25140.5	34354.0	47439.5	64711.8	92122.9	124137.5	151525.9	172786.9
-7.5°	10645.9	14309.0	18346.6	23082.6	31050.1	42874.5	58614.1	81940.8	111003.8	136274.9	155461.8
-10°	9474.2	12781.1	16279.3	20474.1	26702.0	36739.0	49882.6	67694.3	92619.9	115341.6	133483.1
-12.5°	8065.9	10817.1	13757.8	17375.3	22095.6	30278.2	41328.9	55777.6	73108.4	93327.7	109843.7
-15°	6602.3	8915.1	11349.2	14742.4	18768.3	23980.6	31923.9	43410.6	56274.9	70084.9	85070.2
-17.5°	5301.8	7260.0	9840.8	12698.8	15767.2	19394.3	25962.0	33790.2	43100.2	52950.5	61994.5
-20°	4258.9	6335.9	8654.3	11139.8	13959.1	17446.9	21481.5	27428.9	34333.0	41894.5	49139.5



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 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-CV1-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3503.5	5366.0	7519.1	9850.4	12702.6	15842.5	19110.0	22842.5	27797.1	33610.6	39176.3
-25°	2668.4	4224.8	6313.4	8664.7	11292.2	14061.1	16713.4	19756.0	23378.1	27160.6	31057.9
-27.5°	2115.1	3213.8	4928.6	7136.7	9568.0	11735.8	14008.2	16541.7	19709.2	23000.1	25168.6
-30°	1726.3	2369.6	3656.9	5382.0	7414.0	9327.1	11192.9	13469.9	15956.4	18318.2	20235.3
-32.5°	1612.7	1900.4	2566.5	3796.0	5322.2	7029.8	8704.7	10737.3	12667.2	14536.3	16184.4
-35°	1532.5	1716.5	1967.7	2609.1	3528.4	4916.1	6446.4	8166.4	9908.3	11418.1	12816.0
-37.5°	1457.7	1617.4	1783.7	1949.2	2466.7	3101.8	4179.6	5540.0	6861.3	8083.1	9286.4
-40°	1351.0	1526.0	1660.4	1801.9	1955.8	2130.6	2694.7	3250.6	3897.4	4834.4	5655.3
-42.5°	1237.9	1383.7	1536.7	1669.2	1797.9	1932.3	2074.5	2215.7	2511.4	2879.1	3180.2
-45°	1190.6	1278.3	1383.5	1521.8	1651.1	1771.9	1887.5	1999.4	2117.6	2225.5	2313.6
-47.5°	1134.0	1213.8	1298.9	1389.0	1484.0	1600.6	1715.0	1828.9	1932.3	2028.4	2105.0
-50°	1081.8	1144.4	1220.5	1297.2	1373.1	1451.3	1530.3	1618.1	1716.9	1814.2	1894.2
-52.5°	1039.1	1096.5	1150.8	1205.2	1271.2	1337.5	1403.9	1473.9	1541.3	1605.1	1654.8
-55°	935.2	1016.1	1095.8	1147.1	1191.5	1236.7	1286.9	1349.6	1409.4	1466.0	1499.4
-57.5°	794.0	887.6	973.6	1034.3	1096.3	1159.1	1211.0	1255.8	1301.0	1344.2	1367.8
-60°	636.8	713.8	791.7	863.9	932.9	998.1	1058.5	1117.4	1171.8	1217.7	1245.5
-62.5°	481.3	545.2	608.4	668.8	726.9	783.5	847.9	910.0	969.1	1017.3	1047.0
-65°	335.1	387.4	436.5	483.5	528.6	576.7	626.8	675.6	722.3	759.4	783.8
-67.5°	227.9	260.1	289.4	317.3	351.6	388.7	425.4	459.6	491.0	515.1	532.2
-70°	151.4	168.6	184.0	202.1	224.5	247.1	269.9	291.0	310.2	324.6	335.5
-72.5°	93.1	105.1	116.2	128.3	139.8	151.6	164.0	176.1	187.9	196.3	202.7
-75°	44.9	50.4	60.2	69.2	77.2	84.8	91.6	97.6	102.8	106.1	108.3
-77.5°	30.6	33.1	35.5	38.0	40.5	43.5	46.6	49.6	52.4	54.5	56.5
-80°	22.1	23.4	24.5	25.5	26.3	27.6	29.0	30.4	31.8	32.3	32.7
-82.5°	15.2	16.3	17.3	18.3	19.3	20.2	21.0	21.8	22.6	23.3	24.0
-85°	10.3	10.8	11.4	12.0	12.6	13.3	13.9	14.6	15.2	15.3	15.4
-87.5°	7.1	7.3	7.4	7.5	7.6	8.1	8.7	9.2	9.7	9.8	9.8
-90°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.0



REPORT NUMBER: P701495 (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°
90°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.3
87.5°	2.0	2.0	1.0	0.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.4
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.6
75°	2.5	2.0	2.0	2.0	2.0	2.0	2.5	2.9	3.3	3.5	3.5
72.5°	5.7	5.8	4.9	3.9	4.9	5.8	5.7	5.6	5.5	5.6	6.1
70°	6.4	6.0	5.9	5.9	5.9	6.0	6.4	6.8	7.2	7.6	8.5
67.5°	9.0	9.6	9.8	9.8	9.8	9.6	9.0	8.4	8.0	8.3	9.3
65°	10.9	11.5	10.8	9.8	10.8	11.5	10.9	10.2	9.5	9.5	10.0
62.5°	8.1	8.0	7.8	7.8	7.8	8.0	8.1	8.3	8.4	9.0	9.8
60°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	8.0	8.4
57.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
55°	8.8	9.5	9.8	9.8	9.8	9.5	8.8	8.2	7.8	8.1	8.1
52.5°	9.7	9.8	9.8	9.8	9.8	9.8	9.7	9.4	9.1	9.3	9.5
50°	12.2	11.8	11.7	11.7	11.7	11.8	12.2	12.3	12.2	12.0	11.7
47.5°	15.2	14.2	13.7	13.7	13.7	14.2	15.2	15.9	16.2	16.1	15.5
45°	23.7	23.4	23.2	23.4	23.2	23.4	23.7	23.6	24.1	23.4	20.9
42.5°	39.6	40.3	39.6	37.1	39.6	40.3	39.6	38.1	40.7	40.8	38.6
40°	65.5	62.9	59.6	58.6	59.6	62.9	65.5	65.4	68.0	68.7	67.3
37.5°	121.5	121.4	118.6	117.1	118.6	121.4	121.5	120.0	117.2	102.9	106.9
35°	255.6	253.5	239.6	226.5	239.6	253.5	255.6	264.4	251.4	198.1	227.2
32.5°	663.9	699.1	695.8	675.5	695.8	699.1	663.9	648.3	602.0	559.0	529.4
30°	1412.3	1475.3	1462.1	1378.3	1462.1	1475.3	1412.3	1359.1	1220.9	1139.5	1034.0
27.5°	2919.0	3066.6	3196.6	3026.1	3196.6	3066.6	2919.0	2887.1	2285.8	2537.3	1910.4
25°	9984.9	10945.1	11513.2	10630.3	11513.2	10945.1	9984.9	8301.4	6619.9	6540.8	5400.8
22.5°	23829.8	25026.5	25665.0	26030.0	25665.0	25026.5	23829.8	21296.5	18134.0	14880.2	12525.2
20°	43712.0	46270.8	47909.9	44608.0	47909.9	46270.8	43712.0	39081.3	34297.5	27525.9	22647.7
17.5°	74055.7	83492.6	88461.2	91160.6	88461.2	83492.6	74055.7	63192.6	55361.9	45239.5	35378.5
15°	112428.3	124502.7	132656.4	135848.7	132656.4	124502.7	112428.3	98067.6	79459.5	64071.3	49406.9
12.5°	148709.9	161168.9	168692.0	170583.0	168692.0	161168.9	148709.9	129785.9	105886.0	82762.2	63335.4
10°	174516.0	186255.2	194909.3	197947.4	194909.3	186255.2	174516.0	157295.8	130003.8	102706.3	73918.7
7.5°	188882.3	202604.7	210232.1	212130.8	210232.1	202604.7	188882.3	171024.2	145886.3	116351.3	85934.9
5°	197150.4	209548.8	217886.5	218897.5	217886.5	209548.8	197150.4	179200.9	155280.1	126252.8	93794.4
2.5°	202481.5	214606.8	221621.8	223683.5	221621.8	214606.8	202481.5	184133.8	161292.7	132635.1	98012.3
0°	203789.6	214938.2	223413.1	226050.7	223413.1	214938.2	203789.6	186700.2	164235.1	134911.6	99858.1
-2.5°	199828.7	210583.7	216229.0	217144.4	216229.0	210583.7	199828.7	183011.4	160417.4	132982.6	98922.8
-5°	189713.8	197667.8	204184.9	205018.6	204184.9	197667.8	189713.8	172786.9	151525.9	124137.5	92122.9
-7.5°	168228.0	177150.6	180755.2	181730.6	180755.2	177150.6	168228.0	155461.8	136274.9	111003.8	81940.8
-10°	145367.3	153011.3	155564.8	156943.3	155564.8	153011.3	145367.3	133483.1	115341.6	92619.9	67694.3
-12.5°	122986.7	130461.3	132973.0	134968.2	132973.0	130461.3	122986.7	109843.7	93327.7	73108.4	55777.6
-15°	97911.0	105271.5	109329.4	111575.8	109329.4	105271.5	97911.0	85070.2	70084.9	56274.9	43410.6
-17.5°	73472.2	80462.4	85185.4	87933.4	85185.4	80462.4	73472.2	61994.5	52950.5	43100.2	33790.2
-20°	55709.4	60440.3	64074.9	66231.7	64074.9	60440.3	55709.4	49139.5	41894.5	34333.0	27428.9



REPORT NUMBER: P701495 (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°	43517.3	46794.0	48899.5	50277.5	48899.5	46794.0	43517.3	39176.3	33610.6	27797.1	22842.5
-25°	34011.4	36161.9	37523.5	38637.9	37523.5	36161.9	34011.4	31057.9	27160.6	23378.1	19756.0
-27.5°	26929.8	28082.8	28684.7	29503.1	28684.7	28082.8	26929.8	25168.6	23000.1	19709.2	16541.7
-30°	21648.9	22533.6	23012.0	23189.4	23012.0	22533.6	21648.9	20235.3	18318.2	15956.4	13469.9
-32.5°	17423.7	18259.5	18863.1	19146.2	18863.1	18259.5	17423.7	16184.4	14536.3	12667.2	10737.3
-35°	13900.8	14598.0	15073.8	15335.3	15073.8	14598.0	13900.8	12816.0	11418.1	9908.3	8166.4
-37.5°	10282.9	11047.9	11571.8	11750.9	11571.8	11047.9	10282.9	9286.4	8083.1	6861.3	5540.0
-40°	6308.9	6796.3	7110.8	7243.0	7110.8	6796.3	6308.9	5655.3	4834.4	3897.4	3250.6
-42.5°	3414.9	3593.8	3718.0	3789.4	3718.0	3593.8	3414.9	3180.2	2879.1	2511.4	2215.7
-45°	2370.6	2415.8	2444.5	2456.0	2444.5	2415.8	2370.6	2313.6	2225.5	2117.6	1999.4
-47.5°	2161.1	2210.0	2236.0	2237.3	2236.0	2210.0	2161.1	2105.0	2028.4	1932.3	1828.9
-50°	1957.5	2010.8	2037.6	2040.2	2037.6	2010.8	1957.5	1894.2	1814.2	1716.9	1618.1
-52.5°	1700.1	1742.3	1760.6	1759.0	1760.6	1742.3	1700.1	1654.8	1605.1	1541.3	1473.9
-55°	1528.3	1553.5	1564.6	1565.7	1564.6	1553.5	1528.3	1499.4	1466.0	1409.4	1349.6
-57.5°	1389.0	1407.6	1414.2	1413.5	1414.2	1407.6	1389.0	1367.8	1344.2	1301.0	1255.8
-60°	1269.7	1290.0	1295.6	1292.4	1295.6	1290.0	1269.7	1245.5	1217.7	1171.8	1117.4
-62.5°	1071.3	1089.8	1099.0	1101.1	1099.0	1089.8	1071.3	1047.0	1017.3	969.1	910.0
-65°	803.0	816.9	824.2	825.8	824.2	816.9	803.0	783.8	759.4	722.3	675.6
-67.5°	545.4	554.8	557.7	556.4	557.7	554.8	545.4	532.2	515.1	491.0	459.6
-70°	344.2	350.7	352.4	351.4	352.4	350.7	344.2	335.5	324.6	310.2	291.0
-72.5°	207.9	211.9	212.2	210.8	212.2	211.9	207.9	202.7	196.3	187.9	176.1
-75°	109.6	110.2	110.0	109.3	110.0	110.2	109.6	108.3	106.1	102.8	97.6
-77.5°	58.3	59.9	59.4	58.6	59.4	59.9	58.3	56.5	54.5	52.4	49.6
-80°	32.9	33.1	33.2	33.2	33.2	33.1	32.9	32.7	32.3	31.8	30.4
-82.5°	24.6	25.3	24.4	23.4	24.4	25.3	24.6	24.0	23.3	22.6	21.8
-85°	15.5	15.6	15.6	15.6	15.6	15.6	15.5	15.4	15.3	15.2	14.6
-87.5°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.7	9.2
-90°	0.5	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	2.0	2.0



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	6.9	6.4	5.9	5.4	4.9	4.4	3.9	3.9	3.9	3.9	3.9
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	2.3	2.6	2.8	2.9	2.7	2.6	2.4	2.2
80°	2.8	3.0	3.2	3.3	3.4	3.6	3.9	3.9	3.9	3.8	3.5
77.5°	3.0	3.5	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.8
75°	3.6	3.7	4.0	4.3	4.3	4.0	3.9	3.9	3.9	3.9	3.8
72.5°	6.3	6.3	6.3	6.6	6.6	6.9	7.0	6.7	6.0	4.8	3.9
70°	9.3	10.0	11.2	12.4	12.8	12.9	12.4	11.8	11.0	10.2	8.2
67.5°	10.3	11.4	13.8	16.6	18.3	19.4	19.2	18.2	17.0	15.9	12.9
65°	10.7	11.5	14.7	18.2	21.4	24.3	26.7	26.8	25.5	22.8	17.5
62.5°	10.6	11.5	14.5	17.7	21.4	26.6	33.0	35.8	36.0	31.4	24.4
60°	9.0	10.2	12.9	15.9	19.3	26.8	36.4	43.8	48.6	41.4	31.4
57.5°	7.8	8.7	11.1	13.8	16.8	25.3	36.5	49.1	57.3	47.7	38.5
55°	7.9	8.6	10.1	11.8	14.4	22.1	32.4	44.7	53.5	49.8	39.9
52.5°	9.6	9.8	10.3	11.1	13.3	18.3	25.4	36.8	42.9	41.2	37.4
50°	11.5	11.6	11.5	11.5	12.8	15.2	20.2	28.1	31.0	32.5	30.7
47.5°	15.3	15.1	13.9	13.4	14.5	14.2	16.9	20.3	24.1	24.4	24.5
45°	22.8	22.9	20.1	20.5	20.7	20.1	17.3	20.0	21.7	22.5	19.8
42.5°	39.2	38.0	35.9	34.2	32.7	31.1	28.7	27.3	25.3	24.2	24.1
40°	63.5	59.8	58.3	54.4	49.9	46.2	48.5	42.6	37.1	30.7	34.2
37.5°	100.6	84.7	95.5	86.4	76.4	76.1	79.5	70.0	54.9	59.1	57.1
35°	189.6	170.5	179.3	161.6	126.0	146.2	132.1	111.8	100.2	108.2	94.6
32.5°	436.7	422.0	363.9	319.7	289.6	268.6	234.9	180.3	187.9	183.3	156.6
30°	983.6	928.5	728.1	686.0	653.5	478.8	383.9	355.4	327.0	279.2	235.4
27.5°	2332.9	1955.6	1616.5	1640.1	1318.6	953.3	697.7	572.8	502.9	421.6	341.4
25°	5564.3	4700.3	4009.4	3602.8	2750.8	1870.2	1306.5	937.3	725.0	598.1	492.4
22.5°	10958.7	9464.5	7909.6	6504.5	5056.1	3709.7	2484.8	1414.0	969.9	798.9	670.0
20°	17889.8	15080.2	12661.9	10283.7	8041.1	5866.4	4065.6	2337.8	1363.5	1005.4	844.0
17.5°	27248.8	21437.1	17417.4	14092.7	11314.1	8644.6	5778.4	3355.1	1734.1	1205.6	1010.1
15°	37365.1	28237.3	22203.5	18069.2	14364.9	10517.0	7274.6	4320.7	2228.0	1470.1	1171.9
12.5°	47062.2	35230.3	26594.2	20976.1	16290.7	12109.1	8722.3	5549.2	2977.2	1708.9	1271.3
10°	54706.0	40956.5	30349.7	23492.6	18216.0	13561.9	9845.7	6407.1	3456.8	1895.9	1355.0
7.5°	61749.6	45299.5	33356.2	25372.0	19834.0	14904.1	10723.7	7006.7	3761.2	2054.4	1424.0
5°	66173.8	48459.3	35520.4	26431.2	20930.3	16007.8	11504.0	7421.1	3910.0	2182.1	1479.4
2.5°	68506.9	50203.6	36913.6	26961.7	21532.4	16729.5	12118.6	7708.2	4000.0	2235.0	1500.2
0°	70327.6	50994.0	37019.5	27074.5	21633.4	16858.1	12490.8	7848.2	4025.6	2243.2	1511.1
-2.5°	68863.2	50253.3	36670.3	26743.3	21306.1	16569.9	12357.4	8062.1	4146.0	2276.0	1519.6
-5°	64711.8	47439.5	34354.0	25140.5	20024.8	15626.9	11693.2	7792.3	4104.2	2257.0	1517.6
-7.5°	58614.1	42874.5	31050.1	23082.6	18346.6	14309.0	10645.9	7059.4	3840.3	2138.6	1474.3
-10°	49882.6	36739.0	26702.0	20474.1	16279.3	12781.1	9474.2	6210.3	3469.4	1986.0	1421.7
-12.5°	41328.9	30278.2	22095.6	17375.3	13757.8	10817.1	8065.9	5250.4	2991.8	1801.0	1360.8
-15°	31923.9	23980.6	18768.3	14742.4	11349.2	8915.1	6602.3	4184.7	2415.4	1593.8	1292.0
-17.5°	25962.0	19394.3	15767.2	12698.8	9840.8	7260.0	5301.8	3441.9	2061.1	1447.7	1242.1
-20°	21481.5	17446.9	13959.1	11139.8	8654.3	6335.9	4258.9	2704.9	1795.7	1388.0	1207.0



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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°	19110.0	15842.5	12702.6	9850.4	7519.1	5366.0	3503.5	2142.3	1512.3	1325.9	1164.9
-25°	16713.4	14061.1	11292.2	8664.7	6313.4	4224.8	2668.4	1846.0	1447.4	1267.9	1115.4
-27.5°	14008.2	11735.8	9568.0	7136.7	4928.6	3213.8	2115.1	1572.5	1390.3	1223.5	1057.2
-30°	11192.9	9327.1	7414.0	5382.0	3656.9	2369.6	1726.3	1502.1	1334.3	1172.6	1004.2
-32.5°	8704.7	7029.8	5322.2	3796.0	2566.5	1900.4	1612.7	1428.6	1274.4	1107.6	974.4
-35°	6446.4	4916.1	3528.4	2609.1	1967.7	1716.5	1532.5	1367.9	1196.5	1045.0	946.9
-37.5°	4179.6	3101.8	2466.7	1949.2	1783.7	1617.4	1457.7	1283.5	1112.2	1007.8	916.7
-40°	2694.7	2130.6	1955.8	1801.9	1660.4	1526.0	1351.0	1180.2	1074.0	967.7	883.5
-42.5°	2074.5	1932.3	1797.9	1669.2	1536.7	1383.7	1237.9	1137.8	1036.2	937.1	862.7
-45°	1887.5	1771.9	1651.1	1521.8	1383.5	1278.3	1190.6	1095.0	998.5	919.0	847.7
-47.5°	1715.0	1600.6	1484.0	1389.0	1298.9	1213.8	1134.0	1051.1	975.4	899.3	790.5
-50°	1530.3	1451.3	1373.1	1297.2	1220.5	1144.4	1081.8	1024.2	936.3	830.3	720.7
-52.5°	1403.9	1337.5	1271.2	1205.2	1150.8	1096.5	1039.1	951.3	854.8	742.2	629.1
-55°	1286.9	1236.7	1191.5	1147.1	1095.8	1016.1	935.2	844.6	742.4	634.5	532.1
-57.5°	1211.0	1159.1	1096.3	1034.3	973.6	887.6	794.0	703.6	618.2	522.7	430.7
-60°	1058.5	998.1	932.9	863.9	791.7	713.8	636.8	560.9	486.4	409.4	332.9
-62.5°	847.9	783.5	726.9	668.8	608.4	545.2	481.3	420.2	358.5	296.0	245.2
-65°	626.8	576.7	528.6	483.5	436.5	387.4	335.1	291.0	251.5	210.1	168.7
-67.5°	425.4	388.7	351.6	317.3	289.4	260.1	227.9	193.8	168.6	147.5	124.9
-70°	269.9	247.1	224.5	202.1	184.0	168.6	151.4	133.6	116.0	99.4	82.0
-72.5°	164.0	151.6	139.8	128.3	116.2	105.1	93.1	80.3	66.9	53.1	43.1
-75°	91.6	84.8	77.2	69.2	60.2	50.4	44.9	41.5	37.7	33.7	29.5
-77.5°	46.6	43.5	40.5	38.0	35.5	33.1	30.6	27.7	25.5	23.4	21.6
-80°	29.0	27.6	26.3	25.5	24.5	23.4	22.1	20.5	19.0	17.6	16.5
-82.5°	21.0	20.2	19.3	18.3	17.3	16.3	15.2	14.4	13.7	13.0	12.4
-85°	13.9	13.3	12.6	12.0	11.4	10.8	10.3	9.9	9.4	8.9	8.3
-87.5°	8.7	8.1	7.6	7.5	7.4	7.3	7.1	6.6	6.2	5.7	5.3
-90°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



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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°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0
80°	2.9	2.5	2.2	2.0	2.1	2.0	2.0	2.0	2.3	2.4	2.3
77.5°	3.3	2.8	2.3	2.1	2.4	2.5	2.5	2.3	2.5	2.7	2.7
75°	3.3	2.8	2.3	2.2	2.6	3.1	3.2	3.0	3.0	3.1	3.2
72.5°	3.7	3.2	2.6	2.2	2.7	3.2	3.6	3.8	3.5	3.4	3.6
70°	6.0	4.3	3.6	3.1	3.0	3.2	3.7	3.9	3.9	3.7	3.7
67.5°	9.8	7.4	5.5	4.1	3.6	3.6	3.8	3.9	3.9	3.9	3.8
65°	14.0	10.6	7.6	5.7	4.4	3.8	3.9	3.9	3.9	3.9	3.9
62.5°	18.5	14.1	10.6	7.3	5.2	4.2	3.9	3.9	3.9	3.9	3.9
60°	23.3	17.6	13.4	9.8	6.5	4.4	3.9	3.9	3.9	3.9	3.9
57.5°	28.6	20.6	15.9	12.0	8.4	5.2	3.9	3.9	3.9	3.9	3.9
55°	32.0	24.2	18.5	13.9	10.1	6.7	4.5	3.9	3.9	3.9	3.9
52.5°	30.4	26.1	21.6	16.0	11.6	8.2	6.0	3.9	3.9	3.9	3.9
50°	26.4	25.8	23.3	18.5	13.0	9.9	7.4	5.1	3.9	3.9	3.9
47.5°	23.7	24.6	23.5	20.2	14.9	11.6	9.1	6.4	3.9	3.9	3.9
45°	22.6	23.0	23.3	20.8	17.2	13.8	10.8	7.6	5.0	4.0	3.9
42.5°	23.3	23.5	22.3	21.7	19.2	15.8	12.6	9.2	6.1	4.1	4.0
40°	31.5	26.3	22.7	23.3	21.6	17.7	14.3	10.9	7.1	4.6	4.1
37.5°	43.3	34.8	26.8	29.1	25.1	20.1	15.8	12.6	8.4	5.6	4.3
35°	72.7	48.6	44.9	42.6	33.3	22.8	17.1	14.1	9.9	6.5	4.6
32.5°	110.6	85.3	80.8	64.7	44.5	25.8	19.2	15.5	11.4	7.4	4.8
30°	183.0	160.8	128.6	92.7	61.3	36.3	22.5	17.2	12.8	8.3	5.3
27.5°	301.0	251.1	191.0	136.9	88.2	49.8	27.5	19.2	14.1	9.3	6.0
25°	430.4	360.9	278.0	192.1	118.9	77.5	33.4	21.5	15.6	10.4	6.7
22.5°	573.5	479.8	374.7	254.1	170.3	112.9	47.8	26.1	17.3	11.4	7.3
20°	722.6	603.7	474.6	318.1	228.8	157.2	73.7	31.0	19.0	12.3	7.9
17.5°	876.3	713.2	549.1	388.6	285.1	203.4	103.5	36.3	20.9	13.1	8.4
15°	980.5	798.2	619.6	453.0	335.9	251.0	136.2	41.8	22.7	13.9	9.1
12.5°	1064.0	879.0	685.8	511.5	381.8	299.1	170.8	47.3	24.6	15.2	9.9
10°	1138.6	954.8	747.3	564.1	423.1	347.0	206.1	53.1	27.9	16.9	10.7
7.5°	1204.6	1024.9	803.5	611.0	456.9	380.9	228.7	59.2	31.4	18.6	11.6
5°	1255.6	1075.9	840.4	632.0	468.0	398.3	245.7	64.7	34.8	20.3	12.3
2.5°	1270.9	1099.8	862.9	644.7	477.1	411.9	258.7	69.8	38.0	21.9	13.0
0°	1278.8	1114.8	878.5	652.1	484.2	421.7	267.5	74.2	41.0	23.4	13.7
-2.5°	1285.3	1119.5	886.8	665.3	498.8	429.5	282.1	95.6	55.3	31.5	17.3
-5°	1285.3	1116.0	888.0	673.4	511.2	434.0	292.9	116.0	69.1	39.2	20.8
-7.5°	1259.1	1091.6	876.2	676.1	521.0	435.9	300.2	135.0	81.8	46.3	24.1
-10°	1222.2	1051.8	850.3	672.0	533.3	442.3	305.5	152.1	93.3	52.7	27.1
-12.5°	1179.3	1006.3	823.2	665.9	545.3	452.6	313.7	167.2	103.2	58.1	29.7
-15°	1130.7	955.7	796.5	658.9	556.5	461.2	317.8	179.6	110.7	62.5	31.9
-17.5°	1082.1	900.7	771.9	651.8	567.1	468.3	317.9	188.8	116.4	65.9	34.0
-20°	1042.4	866.6	751.5	645.4	577.4	474.3	313.9	194.4	120.0	68.0	35.8



REPORT NUMBER: P701495 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-CV1-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	997.1	852.4	744.0	650.5	584.0	479.5	305.8	196.1	121.3	68.7	37.0
-25°	948.1	837.3	736.2	655.7	584.8	466.6	300.5	193.7	120.1	68.0	37.5
-27.5°	919.9	822.6	726.4	657.0	574.2	449.0	296.9	191.9	117.5	65.8	37.3
-30°	900.8	809.0	722.4	650.9	559.3	416.9	287.7	187.0	114.7	64.3	36.3
-32.5°	881.3	794.0	716.0	631.3	526.4	383.2	269.4	178.6	109.7	63.0	35.5
-35°	859.0	779.2	703.3	606.8	485.7	357.1	248.2	166.6	102.6	60.7	34.3
-37.5°	833.3	763.7	671.8	570.5	444.0	326.7	228.5	151.8	93.2	57.2	32.5
-40°	816.7	738.4	637.6	523.9	404.8	292.2	205.1	137.0	86.5	52.7	30.0
-42.5°	797.5	696.0	588.6	476.1	362.6	262.3	179.2	119.9	78.9	48.5	26.8
-45°	745.9	642.9	530.8	422.4	317.3	228.5	157.7	102.0	70.2	44.0	23.8
-47.5°	684.7	574.3	467.8	364.5	274.9	193.6	133.7	91.2	60.7	38.7	21.7
-50°	604.5	500.7	400.2	310.3	227.8	163.9	110.6	79.3	52.8	32.0	19.1
-52.5°	521.8	422.7	335.4	255.3	188.8	131.4	96.1	66.7	44.1	27.1	16.2
-55°	433.8	348.6	271.9	206.5	149.6	110.1	80.4	55.5	34.5	23.0	13.2
-57.5°	349.8	275.9	215.5	160.1	120.3	91.0	65.3	43.4	28.4	18.7	12.5
-60°	265.9	212.9	161.1	125.9	97.1	72.0	50.1	32.7	23.3	14.9	11.7
-62.5°	196.3	154.0	125.9	98.2	74.4	53.4	35.6	26.6	17.9	13.8	10.8
-65°	142.9	117.8	93.5	72.4	52.5	36.9	28.5	20.3	15.6	12.5	9.9
-67.5°	102.5	82.9	64.8	46.8	36.4	28.5	21.0	17.0	14.0	11.2	8.9
-70°	65.1	49.3	40.8	33.7	26.5	20.5	17.8	15.0	12.3	10.1	7.9
-72.5°	38.6	33.6	28.3	22.7	20.3	17.9	15.4	13.0	11.0	8.9	6.9
-75°	25.3	23.1	21.4	19.6	17.4	15.2	13.2	11.5	9.6	7.7	6.1
-77.5°	20.2	18.9	17.8	16.2	14.2	12.5	11.2	10.0	8.3	6.8	5.5
-80°	15.6	14.6	13.4	12.0	10.7	9.8	9.2	8.5	7.1	5.9	4.8
-82.5°	11.3	10.3	9.5	8.7	8.3	7.8	7.4	6.9	5.9	4.9	4.3
-85°	7.8	7.3	6.8	6.5	6.2	5.9	5.7	5.6	5.0	4.6	4.2
-87.5°	5.3	5.2	5.1	5.0	5.0	4.9	4.8	4.7	4.5	4.2	4.0
-90°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



REPORT NUMBER: P701495 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	3.9	3.9	3.9	3.9	3.9	3.9	3.9
87.5°	2.0	2.1	2.2	2.2	2.2	3.0	3.9
85°	2.0	2.2	2.3	2.4	2.3	3.0	3.9
82.5°	2.0	2.3	2.5	2.6	2.5	3.1	3.9
80°	2.1	2.4	2.7	2.8	2.7	3.1	3.9
77.5°	2.6	2.6	2.9	2.9	2.8	3.2	3.9
75°	3.1	2.9	3.0	3.1	3.0	3.2	3.9
72.5°	3.5	3.2	3.2	3.3	3.2	3.3	3.9
70°	3.9	3.5	3.4	3.5	3.3	3.3	3.9
67.5°	3.9	3.8	3.5	3.6	3.5	3.4	3.9
65°	3.9	3.9	3.7	3.6	3.6	3.4	3.9
62.5°	3.9	3.9	3.8	3.7	3.8	3.4	3.9
60°	3.9	3.9	3.9	3.8	3.9	3.5	3.9
57.5°	3.9	3.9	3.9	3.8	3.9	3.5	3.9
55°	3.9	3.9	3.9	3.8	3.9	3.6	3.9
52.5°	3.9	3.9	3.9	3.9	3.9	3.6	3.9
50°	3.9	3.9	3.9	3.9	3.9	3.6	3.9
47.5°	3.9	3.9	3.9	3.9	3.9	3.7	3.9
45°	3.9	3.9	3.9	3.9	3.9	3.7	3.9
42.5°	3.9	3.9	3.9	3.9	3.9	3.7	3.9
40°	3.9	3.9	3.9	3.9	3.9	3.8	3.9
37.5°	3.9	3.9	3.9	3.9	3.9	3.8	3.9
35°	3.9	3.9	3.9	3.9	3.9	3.8	3.9
32.5°	4.0	3.9	3.9	3.9	3.9	3.8	3.9
30°	4.2	3.9	3.9	3.9	3.9	3.8	3.9
27.5°	4.4	3.9	3.9	3.9	3.9	3.9	3.9
25°	4.6	3.9	3.9	3.9	3.9	3.9	3.9
22.5°	4.9	3.9	3.9	3.9	3.9	3.9	3.9
20°	5.1	4.1	3.9	3.9	3.9	3.9	3.9
17.5°	5.5	4.3	3.9	3.9	3.9	3.9	3.9
15°	5.9	4.5	3.9	3.9	3.9	3.9	3.9
12.5°	6.3	4.7	3.9	3.9	3.9	3.9	3.9
10°	6.6	4.9	3.9	3.9	3.9	3.9	3.9
7.5°	6.9	5.2	3.9	3.9	3.9	3.9	3.9
5°	7.2	5.4	3.9	3.9	3.9	3.9	3.9
2.5°	7.5	5.7	3.9	3.9	3.9	3.9	3.9
0°	7.8	5.9	3.9	3.9	3.9	3.9	3.9
-2.5°	9.6	6.5	4.1	3.9	3.9	3.9	3.9
-5°	11.4	7.1	4.2	3.9	3.9	3.9	3.9
-7.5°	13.0	7.7	4.4	3.9	3.9	3.9	3.9
-10°	14.5	8.2	4.6	3.9	3.9	3.9	3.9
-12.5°	15.9	8.6	4.7	3.9	3.9	3.9	3.9
-15°	17.0	8.9	4.8	3.9	3.9	3.9	3.9
-17.5°	17.8	9.2	4.9	3.9	3.9	3.9	3.9
-20°	18.6	9.3	4.9	3.9	3.9	3.9	3.9



REPORT NUMBER: P701495 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-4S-CV1-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	19.2	9.3	5.0	3.9	3.9	3.9	3.9
-25°	19.5	9.4	5.0	3.9	3.9	3.9	3.9
-27.5°	19.4	9.4	4.9	3.9	3.9	3.9	3.9
-30°	18.9	9.2	4.8	3.9	3.9	3.9	3.9
-32.5°	18.0	8.9	4.9	3.9	3.9	3.9	3.9
-35°	17.3	8.3	4.9	3.9	3.9	3.9	3.9
-37.5°	16.6	7.9	4.9	3.9	3.9	3.9	3.9
-40°	15.6	7.9	4.9	3.9	3.9	3.9	3.9
-42.5°	14.4	7.8	4.9	3.9	3.9	3.9	3.9
-45°	12.9	7.6	5.0	4.0	3.9	3.9	3.9
-47.5°	11.0	7.4	5.0	4.0	3.9	3.9	3.9
-50°	10.5	7.2	5.0	4.0	3.9	3.9	3.9
-52.5°	10.1	6.9	5.0	4.1	3.9	3.9	3.9
-55°	9.7	6.7	4.9	4.1	3.9	3.9	3.9
-57.5°	9.1	6.5	4.8	4.1	3.9	3.9	3.9
-60°	8.6	6.2	4.6	4.0	3.9	3.9	3.9
-62.5°	8.0	5.8	4.6	4.0	3.9	3.9	3.9
-65°	7.4	5.4	4.5	4.0	3.9	3.9	3.9
-67.5°	6.6	5.1	4.3	4.0	3.9	3.9	3.9
-70°	5.8	4.8	4.2	3.9	3.9	3.9	3.9
-72.5°	5.4	4.6	4.1	3.9	3.9	3.9	3.9
-75°	4.9	4.3	3.9	3.9	3.9	3.9	3.9
-77.5°	4.4	4.0	3.9	3.9	3.9	3.9	3.9
-80°	4.0	3.9	3.9	3.9	3.9	3.9	3.9
-82.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9
-85°	3.9	3.9	3.9	3.9	3.9	3.9	3.9
-87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9
-90°	2.0	2.0	2.0	2.0	2.0	3.0	3.9

(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

