

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: P701351 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-40-80-4S-CV1-S**

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701351 (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-08-0320L-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

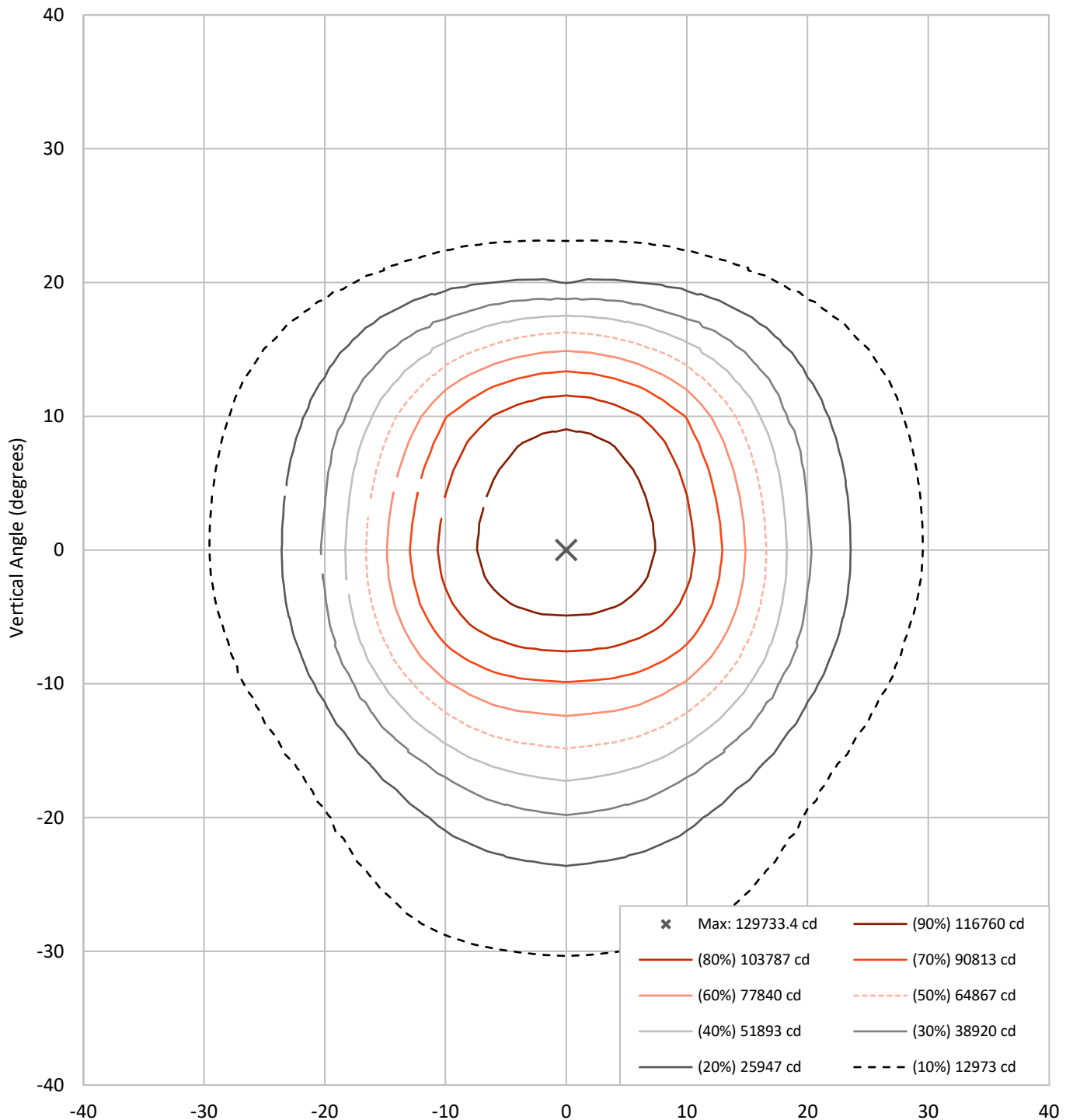
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	44202.8 lumens	Max Intensity:	129733.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	128.4 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:	24158.6 lumens	Field Lumens:	38927.3 lumens
Beam Efficiency:	54.7%	Field Efficiency:	88.1%

Input Watts (W): 344.2
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





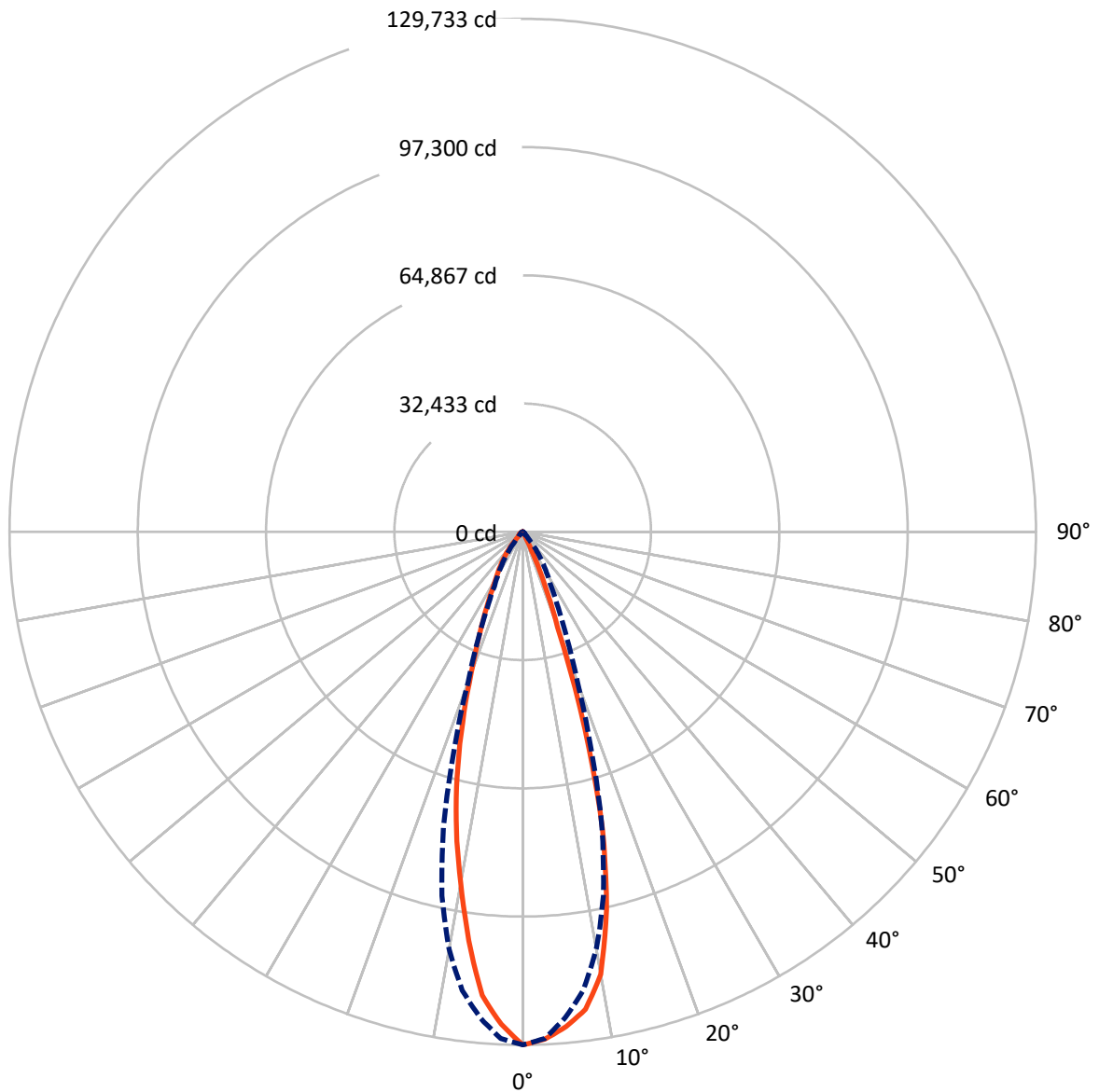
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Lumen Table

90															
80	0.0	0.1		0.2		0.2		0.2		0.2		0.2		0.1	0.0
70															
60	0.0	0.0	0.1	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.1	0.0
50		0.0	0.1	0.5	0.4	0.2	0.1	0.2	0.2	0.1	0.2	0.4	0.5	0.1	0.0
40	0.0	0.1	0.2	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.2	0.1
30		0.1	0.5	1.3	2.4	4.2	6.3	7.8	7.8	6.3	4.2	2.4	1.3	0.5	0.1
20	0.1	0.2	2.2	6.6	26.2	81.9	164.0	266.4	266.4	164.0	81.9	26.2	6.6	2.2	0.2
10		0.7	4.9	16.0	108.4	370.4	1105.4	2060.8	2060.8	1105.4	370.4	108.4	16.0	4.9	0.7
0	0.1	1.1	6.8	22.9	169.0	601.8	2063.6	3534.5	3534.5	2063.6	601.8	169.0	22.9	6.8	1.1
-10		1.4	7.2	23.5	166.8	580.5	1997.4	3290.0	3290.0	1997.4	580.5	166.8	23.5	7.2	1.4
-20	0.3	1.7	6.9	18.1	99.2	328.0	1008.0	1796.7	1796.7	1008.0	328.0	99.2	18.1	6.9	1.7
-30		1.7	6.6	14.0	46.7	177.8	409.6	653.4	653.4	409.6	177.8	46.7	14.0	6.6	1.7
-40	0.2	1.4	5.9	11.9	23.0	66.1	165.4	251.2	251.2	165.4	66.1	23.0	11.9	5.9	1.4
-50		0.9	4.3	10.2	17.2	26.3	40.0	54.3	54.3	40.0	26.3	17.2	10.2	4.3	0.9
-60	0.1	0.5	2.2	6.7	12.9	18.7	24.0	27.4	27.4	24.0	18.7	12.9	6.7	2.2	0.5
-70		0.2	0.8	2.4	5.2	8.7	12.2	14.2	14.2	12.2	8.7	5.2	2.4	0.8	0.2
-80	0.1	0.4		1.6		4.1		5.5		4.1		1.6		0.4	0.1
-90															

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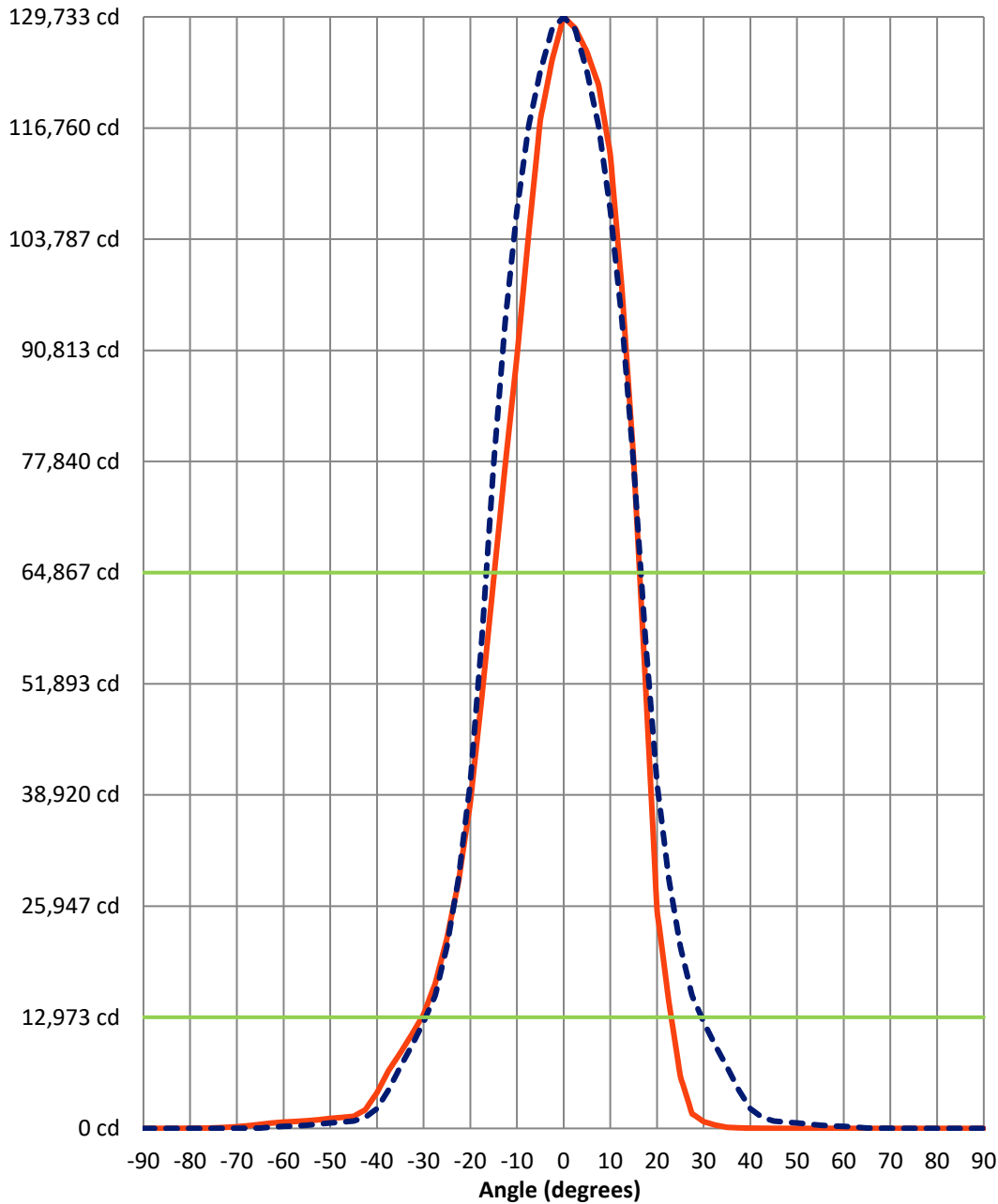
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 33.1°
 V Angle: 31.1°
 Lumens: 24158.6
 Efficiency: 54.7%

Field:
 H Angle: 59.1°
 V Angle: 53.4°
 Lumens: 38927.3
 Efficiency: 88.1%

Spill:
 Lumens: 5275.5
 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°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
87.5°	2.2	1.7	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1
85°	2.2	1.7	1.3	1.3	1.3	1.2	1.1	1.1	1.1	1.1	1.1
82.5°	2.2	1.7	1.4	1.4	1.4	1.3	1.1	1.1	1.1	1.1	1.1
80°	2.2	1.8	1.5	1.5	1.5	1.4	1.2	1.3	1.3	1.3	1.1
77.5°	2.2	1.8	1.6	1.6	1.6	1.5	1.4	1.5	1.5	1.4	1.3
75°	2.2	1.8	1.7	1.8	1.7	1.6	1.7	1.8	1.7	1.7	1.7
72.5°	2.2	1.8	1.8	1.9	1.8	1.8	2.0	2.0	1.9	1.9	2.1
70°	2.2	1.9	1.9	2.0	1.9	2.0	2.2	2.1	2.1	2.2	2.2
67.5°	2.2	1.9	2.0	2.0	2.0	2.1	2.2	2.2	2.2	2.2	2.2
65°	2.2	1.9	2.0	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2
62.5°	2.2	1.9	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2
60°	2.2	2.0	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2
57.5°	2.2	2.0	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2
55°	2.2	2.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
52.5°	2.2	2.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
50°	2.2	2.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.9
47.5°	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.7
45°	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.8	4.4
42.5°	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.3	3.5	5.3
40°	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.3	2.6	4.1	6.2
37.5°	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.5	3.2	4.8	7.2
35°	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.6	3.7	5.7	8.0
32.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.8	4.3	6.5	8.9
30°	2.2	2.2	2.2	2.2	2.2	2.2	2.4	3.0	4.8	7.3	9.9
27.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.5	3.4	5.3	8.1	11.0
25°	2.2	2.2	2.2	2.2	2.2	2.2	2.6	3.8	5.9	8.9	12.3
22.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.8	4.2	6.5	9.9	15.0
20°	2.2	2.2	2.2	2.2	2.2	2.3	2.9	4.5	7.1	10.9	17.8
17.5°	2.2	2.2	2.2	2.2	2.2	2.4	3.1	4.8	7.5	12.0	20.9
15°	2.2	2.2	2.2	2.2	2.2	2.5	3.4	5.2	8.0	13.1	24.0
12.5°	2.2	2.2	2.2	2.2	2.2	2.7	3.6	5.7	8.7	14.1	27.2
10°	2.2	2.2	2.2	2.2	2.2	2.8	3.8	6.1	9.7	16.0	30.5
7.5°	2.2	2.2	2.2	2.2	2.2	3.0	4.0	6.6	10.7	18.0	34.0
5°	2.2	2.2	2.2	2.2	2.2	3.1	4.2	7.0	11.6	20.0	37.2
2.5°	2.2	2.2	2.2	2.2	2.2	3.3	4.3	7.4	12.6	21.8	40.1
0°	2.2	2.2	2.2	2.2	2.2	3.4	4.5	7.8	13.4	23.5	42.6
-2.5°	2.2	2.2	2.2	2.2	2.3	3.8	5.5	9.9	18.0	31.7	54.9
-5°	2.2	2.2	2.2	2.2	2.4	4.1	6.5	11.9	22.5	39.6	66.6
-7.5°	2.2	2.2	2.2	2.2	2.5	4.4	7.5	13.8	26.6	47.0	77.5
-10°	2.2	2.2	2.2	2.2	2.6	4.7	8.3	15.5	30.2	53.6	87.3
-12.5°	2.2	2.2	2.2	2.2	2.7	4.9	9.1	17.0	33.3	59.2	96.0
-15°	2.2	2.2	2.2	2.2	2.7	5.1	9.7	18.3	35.9	63.6	103.1
-17.5°	2.2	2.2	2.2	2.2	2.8	5.3	10.2	19.5	37.8	66.8	108.4
-20°	2.2	2.2	2.2	2.2	2.8	5.3	10.6	20.5	39.0	68.9	111.6



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 CATALOG NUMBER: EPH-LS-08-0320L-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°	2.2	2.2	2.2	2.2	2.8	5.4	11.0	21.2	39.5	69.6	112.6
-25°	2.2	2.2	2.2	2.2	2.8	5.4	11.2	21.5	39.1	69.0	111.2
-27.5°	2.2	2.2	2.2	2.2	2.8	5.4	11.1	21.4	37.8	67.4	110.2
-30°	2.2	2.2	2.2	2.2	2.8	5.3	10.9	20.8	36.9	65.9	107.4
-32.5°	2.2	2.2	2.2	2.2	2.8	5.1	10.3	20.4	36.2	63.0	102.5
-35°	2.2	2.2	2.2	2.2	2.8	4.8	9.9	19.7	34.8	58.9	95.7
-37.5°	2.2	2.2	2.2	2.2	2.8	4.5	9.5	18.6	32.9	53.5	87.2
-40°	2.2	2.2	2.2	2.2	2.8	4.5	9.0	17.2	30.2	49.7	78.6
-42.5°	2.2	2.2	2.2	2.2	2.8	4.4	8.2	15.4	27.8	45.3	68.8
-45°	2.2	2.2	2.2	2.2	2.8	4.4	7.4	13.7	25.3	40.3	58.6
-47.5°	2.2	2.2	2.2	2.3	2.9	4.2	6.3	12.4	22.2	34.8	52.3
-50°	2.2	2.2	2.2	2.3	2.9	4.1	6.0	10.9	18.4	30.3	45.5
-52.5°	2.2	2.2	2.2	2.3	2.8	3.9	5.8	9.2	15.5	25.3	38.3
-55°	2.2	2.2	2.2	2.3	2.8	3.8	5.5	7.5	13.2	19.8	31.9
-57.5°	2.2	2.2	2.2	2.3	2.7	3.7	5.2	7.1	10.7	16.3	24.9
-60°	2.2	2.2	2.2	2.3	2.6	3.5	4.9	6.7	8.5	13.3	18.8
-62.5°	2.2	2.2	2.2	2.3	2.6	3.3	4.6	6.2	7.9	10.2	15.3
-65°	2.2	2.2	2.2	2.3	2.5	3.1	4.2	5.6	7.2	8.9	11.6
-67.5°	2.2	2.2	2.2	2.2	2.5	2.9	3.8	5.1	6.4	8.0	9.7
-70°	2.2	2.2	2.2	2.2	2.4	2.8	3.4	4.5	5.8	7.0	8.6
-72.5°	2.2	2.2	2.2	2.2	2.3	2.6	3.1	3.9	5.1	6.3	7.4
-75°	2.2	2.2	2.2	2.2	2.2	2.4	2.8	3.5	4.4	5.5	6.6
-77.5°	2.2	2.2	2.2	2.2	2.2	2.3	2.5	3.1	3.9	4.8	5.7
-80°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.8	3.4	4.1	4.8
-82.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.5	2.8	3.4	4.0
-85°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.4	2.6	2.9	3.2
-87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.4	2.5	2.7
-90°	2.2	1.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1



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 CATALOG NUMBER: EPH-LS-08-0320L-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°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.3	1.4	1.5
80°	1.1	1.1	1.1	1.1	1.2	1.4	1.6	2.0	2.1	2.2	2.2
77.5°	1.4	1.4	1.3	1.2	1.3	1.6	1.8	2.1	2.2	2.2	2.2
75°	1.8	1.7	1.5	1.2	1.3	1.5	1.8	2.1	2.2	2.2	2.2
72.5°	2.0	1.8	1.5	1.2	1.4	1.8	2.1	2.2	2.7	3.4	3.8
70°	2.1	1.8	1.7	1.8	2.0	2.4	3.4	4.7	5.9	6.3	6.8
67.5°	2.1	2.0	2.0	2.3	3.1	4.2	5.6	7.4	9.1	9.8	10.5
65°	2.2	2.2	2.5	3.2	4.4	6.1	8.0	10.1	13.1	14.6	15.3
62.5°	2.2	2.4	3.0	4.2	6.0	8.0	10.6	14.0	18.0	20.6	20.5
60°	2.2	2.5	3.7	5.6	7.6	10.1	13.4	18.0	23.7	27.8	25.1
57.5°	2.2	3.0	4.8	6.9	9.1	11.8	16.4	22.1	27.3	32.8	28.1
55°	2.5	3.8	5.8	8.0	10.6	13.9	18.4	22.9	28.6	30.7	25.7
52.5°	3.4	4.7	6.6	9.2	12.4	15.0	17.5	21.5	23.6	24.6	21.1
50°	4.3	5.7	7.4	10.6	13.4	14.8	15.1	17.6	18.6	17.8	16.1
47.5°	5.2	6.7	8.5	11.6	13.5	14.1	13.6	14.1	14.0	13.8	11.7
45°	6.2	7.9	9.9	11.9	13.3	13.2	12.9	11.4	12.9	12.5	11.5
42.5°	7.2	9.1	11.0	12.4	12.7	13.4	13.4	13.8	13.9	14.5	15.7
40°	8.2	10.1	12.4	13.3	13.0	15.1	18.1	19.6	17.6	21.3	24.4
37.5°	9.1	11.5	14.4	16.7	15.4	19.9	24.8	32.7	33.9	31.5	40.2
35°	9.8	13.1	19.1	24.4	25.8	27.9	41.7	54.2	62.1	57.5	64.2
32.5°	11.0	14.8	25.5	37.1	46.4	48.9	63.4	89.8	105.2	107.8	103.5
30°	12.9	20.8	35.2	53.2	73.8	92.2	104.9	135.1	160.3	187.7	204.0
27.5°	15.8	28.6	50.6	78.5	109.6	144.0	172.7	195.9	242.0	288.6	328.7
25°	19.2	44.5	68.2	110.2	159.5	207.1	247.0	282.6	343.2	416.1	537.9
22.5°	27.5	64.8	97.7	145.8	215.1	275.3	329.1	384.5	458.5	556.6	811.5
20°	42.3	90.2	131.3	182.5	272.4	346.4	414.7	484.4	577.0	782.6	1341.7
17.5°	59.4	116.7	163.6	223.0	315.1	409.3	503.0	579.7	691.9	995.2	1925.5
15°	78.2	144.0	192.8	260.0	355.6	458.1	562.7	672.6	843.7	1278.7	2479.7
12.5°	98.0	171.6	219.1	293.6	393.6	504.5	610.7	729.6	980.7	1708.7	3184.7
10°	118.3	199.1	242.9	323.8	428.9	548.0	653.5	777.6	1088.1	1983.9	3677.1
7.5°	131.2	218.6	262.2	350.7	461.1	588.2	691.3	817.3	1179.1	2158.5	4021.2
5°	141.0	228.5	268.6	362.7	482.3	617.5	720.6	849.0	1252.4	2244.0	4259.1
2.5°	148.5	236.4	273.8	370.0	495.2	631.2	729.4	861.0	1282.7	2295.6	4423.9
0°	153.5	242.0	277.9	374.2	504.2	639.8	733.9	867.2	1287.4	2310.4	4504.2
-2.5°	161.9	246.5	286.3	381.8	508.9	642.5	737.7	872.1	1306.2	2379.5	4627.0
-5°	168.1	249.1	293.4	386.4	509.6	640.5	737.6	870.9	1295.4	2355.5	4472.1
-7.5°	172.3	250.2	299.0	388.0	502.8	626.5	722.6	846.1	1227.4	2204.0	4051.5
-10°	175.3	253.8	306.1	385.6	488.0	603.6	701.4	815.9	1139.8	1991.1	3564.1
-12.5°	180.0	259.8	313.0	382.2	472.4	577.5	676.8	780.9	1033.6	1717.0	3013.2
-15°	182.4	264.7	319.4	378.2	457.1	548.4	648.9	741.5	914.7	1386.3	2401.6
-17.5°	182.5	268.8	325.5	374.1	442.9	516.9	621.0	712.9	830.8	1182.9	1975.3
-20°	180.2	272.2	331.4	370.4	431.2	497.3	598.2	692.7	796.6	1030.6	1552.4



REPORT NUMBER: P701351 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-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°
-22.5°	175.5	275.1	335.2	373.3	427.0	489.2	572.2	668.5	760.9	867.9	1229.5
-25°	172.5	267.8	335.6	376.3	422.5	480.5	544.1	640.1	727.7	830.7	1059.4
-27.5°	170.4	257.6	329.5	377.0	416.9	472.1	527.9	606.7	702.2	797.9	902.5
-30°	165.2	239.2	321.0	373.6	414.6	464.3	517.0	576.3	672.9	765.7	862.1
-32.5°	154.7	219.9	302.1	362.3	410.9	455.7	505.8	559.3	635.7	731.4	819.9
-35°	142.5	204.9	278.7	348.2	403.6	447.2	493.0	543.5	599.7	686.7	785.1
-37.5°	131.2	187.5	254.8	327.4	385.5	438.3	478.3	526.1	578.4	638.3	736.6
-40°	117.8	167.7	232.3	300.6	365.9	423.7	468.7	507.1	555.4	616.4	677.3
-42.5°	102.8	150.6	208.1	273.2	337.8	399.4	457.6	495.1	537.8	594.7	653.0
-45°	90.5	131.1	182.1	242.4	304.6	368.9	428.1	486.5	527.4	573.0	628.5
-47.5°	76.7	111.1	157.8	209.2	268.4	329.6	392.9	453.6	516.1	559.8	603.2
-50°	63.5	94.0	130.7	178.1	229.7	287.3	346.9	413.6	476.5	537.4	587.8
-52.5°	55.2	75.4	108.3	146.5	192.5	242.6	299.5	361.1	425.9	490.6	546.0
-55°	46.2	63.2	85.9	118.5	156.0	200.1	249.0	305.4	364.2	426.1	484.7
-57.5°	37.5	52.2	69.0	91.9	123.6	158.4	200.8	247.2	300.0	354.8	403.8
-60°	28.8	41.3	55.7	72.3	92.4	122.2	152.6	191.0	235.0	279.2	321.9
-62.5°	20.4	30.6	42.7	56.3	72.2	88.3	112.6	140.7	169.8	205.8	241.2
-65°	16.3	21.2	30.1	41.5	53.7	67.6	82.0	96.8	120.6	144.3	167.0
-67.5°	12.1	16.3	20.9	26.9	37.2	47.6	58.8	71.6	84.6	96.7	111.2
-70°	10.2	11.8	15.2	19.3	23.4	28.3	37.3	47.0	57.0	66.5	76.7
-72.5°	8.8	10.2	11.6	13.0	16.2	19.3	22.2	24.8	30.5	38.4	46.1
-75°	7.5	8.7	10.0	11.3	12.3	13.2	14.5	16.9	19.3	21.7	23.8
-77.5°	6.4	7.2	8.1	9.3	10.2	10.9	11.6	12.4	13.5	14.6	15.9
-80°	5.2	5.6	6.1	6.9	7.7	8.4	9.0	9.5	10.1	10.9	11.8
-82.5°	4.2	4.5	4.7	5.0	5.4	5.9	6.5	7.1	7.5	7.9	8.3
-85°	3.3	3.4	3.6	3.7	3.9	4.2	4.5	4.8	5.1	5.4	5.7
-87.5°	2.8	2.8	2.8	2.9	2.9	3.0	3.0	3.0	3.3	3.5	3.8
-90°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	2.2	2.5	2.8	3.1	3.4	3.7	4.0	4.2	4.5	4.5	4.5
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.6	1.5	1.4	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	2.2	2.1	1.9	1.8	1.8	1.7	1.5	1.3	1.1	1.1	1.1
77.5°	2.2	2.2	2.2	2.2	2.2	2.0	1.7	1.4	1.1	1.1	1.1
75°	2.2	2.3	2.4	2.4	2.3	2.1	2.0	2.0	2.0	1.8	1.6
72.5°	4.0	4.0	3.8	3.7	3.6	3.6	3.6	3.5	3.2	3.2	3.2
70°	7.2	7.4	7.4	7.1	6.4	5.7	5.3	4.9	4.4	4.1	3.9
67.5°	11.1	11.1	10.5	9.5	7.9	6.5	5.9	5.3	4.8	4.6	4.8
65°	15.3	13.9	12.3	10.4	8.5	6.6	6.1	5.7	5.4	5.5	5.9
62.5°	18.9	15.3	12.3	10.1	8.3	6.6	6.1	5.6	5.1	4.8	4.8
60°	20.9	15.3	11.0	9.1	7.4	5.8	5.2	4.8	4.6	4.5	4.5
57.5°	20.9	14.5	9.6	7.9	6.3	5.0	4.5	4.5	4.5	4.5	4.5
55°	18.6	12.6	8.2	6.8	5.8	4.9	4.5	4.7	4.7	4.5	4.7
52.5°	14.6	10.5	7.6	6.3	5.9	5.6	5.5	5.5	5.4	5.2	5.4
50°	11.6	8.7	7.4	6.6	6.6	6.6	6.6	6.7	6.9	6.9	7.0
47.5°	9.7	8.2	8.3	7.6	7.9	8.6	8.8	8.9	9.2	9.3	9.1
45°	10.0	11.6	11.9	11.7	11.5	13.1	13.1	12.0	13.4	13.8	13.5
42.5°	16.5	17.8	18.8	19.6	20.6	21.8	22.5	22.1	23.4	23.4	21.9
40°	27.9	26.6	28.6	31.2	33.5	34.3	36.4	38.7	39.5	39.0	37.5
37.5°	45.7	43.7	43.9	49.6	54.8	48.6	57.7	61.4	59.1	67.2	68.8
35°	75.9	83.9	72.3	92.7	102.9	97.8	108.8	130.4	113.6	144.2	151.7
32.5°	134.8	154.1	166.2	183.5	208.8	242.2	250.6	303.8	320.9	345.5	372.1
30°	220.3	274.8	375.0	393.7	417.9	532.9	564.5	593.5	654.0	700.7	780.0
27.5°	400.4	547.1	756.8	941.3	927.7	1122.3	1338.9	1096.4	1456.2	1311.9	1657.0
25°	749.8	1073.3	1578.7	2067.7	2301.1	2697.6	3193.4	3099.6	3753.8	3799.2	4764.3
22.5°	1426.1	2129.0	2901.8	3733.1	4539.4	5431.8	6289.3	7188.3	8539.9	10407.3	12222.3
20°	2333.3	3366.8	4614.9	5902.0	7266.8	8654.7	10267.2	12997.8	15797.5	19683.8	22429.3
17.5°	3316.3	4961.3	6493.3	8088.0	9996.1	12303.1	15638.5	20304.2	25963.5	31772.9	36267.1
15°	4175.0	6035.8	8244.2	10370.2	12742.9	16205.7	21444.3	28355.3	36771.4	45602.9	56282.2
12.5°	5005.8	6949.6	9349.4	12038.5	15262.8	20219.1	27009.6	36349.0	47498.3	60769.3	74485.8
10°	5650.6	7783.4	10454.4	13482.7	17418.1	23505.5	31396.5	42422.9	58944.5	74610.9	90274.1
7.5°	6154.5	8553.7	11383.0	14561.3	19143.6	25998.0	35438.9	49319.1	66775.5	83726.1	98153.0
5°	6602.3	9187.1	12012.2	15169.2	20385.6	27811.5	37978.0	53829.9	72458.1	89117.3	102845.7
2.5°	6955.0	9601.3	12357.8	15473.7	21185.2	28812.6	39317.0	56250.5	76121.0	92568.0	105676.8
0°	7168.6	9675.1	12415.7	15538.4	21246.0	29266.1	40361.9	57309.9	77427.5	94256.6	107149.7
-2.5°	7092.1	9509.7	12227.8	15348.3	21045.6	28841.1	39521.4	56773.1	76320.4	92065.6	105032.6
-5°	6710.9	8968.5	11492.4	14428.5	19716.2	27226.2	37139.0	52870.6	71244.2	86962.6	99164.7
-7.5°	6109.8	8212.1	10529.3	13247.4	17820.1	24606.3	33639.4	47026.9	63706.6	78209.9	89221.5
-10°	5437.4	7335.2	9342.9	11750.4	15324.6	21084.9	28628.3	38850.6	53155.8	66196.1	76607.7
-12.5°	4629.1	6208.1	7895.8	9971.9	12681.0	17377.0	23719.2	32011.5	41957.9	53562.0	63040.7
-15°	3789.1	5116.5	6513.5	8460.9	10771.4	13762.8	18321.6	24913.9	32296.9	40222.6	48822.9
-17.5°	3042.7	4166.6	5647.8	7288.0	9049.0	11130.7	14900.0	19392.6	24735.7	30389.0	35579.4
-20°	2444.2	3636.2	4966.8	6393.3	8011.3	10013.0	12328.5	15741.8	19704.1	24043.8	28201.7



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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°	2010.7	3079.6	4315.3	5653.2	7290.2	9092.2	10967.5	13109.6	15953.1	19289.5	22483.7
-25°	1531.4	2424.7	3623.3	4972.7	6480.7	8069.8	9592.0	11338.2	13417.0	15587.8	17824.5
-27.5°	1213.9	1844.4	2828.6	4095.8	5491.1	6735.3	8039.5	9493.5	11311.4	13200.1	14444.6
-30°	990.7	1359.9	2098.7	3088.8	4254.9	5352.9	6423.7	7730.5	9157.6	10513.1	11613.3
-32.5°	925.5	1090.7	1472.9	2178.6	3054.4	4034.5	4995.7	6162.3	7269.8	8342.5	9288.4
-35°	879.5	985.1	1129.3	1497.4	2024.9	2821.4	3699.7	4686.8	5686.5	6553.0	7355.3
-37.5°	836.6	928.2	1023.7	1118.7	1415.6	1780.1	2398.7	3179.5	3937.8	4639.0	5329.6
-40°	775.4	875.8	952.9	1034.1	1122.4	1222.8	1546.5	1865.6	2236.8	2774.5	3245.6
-42.5°	710.4	794.1	882.0	958.0	1031.8	1109.0	1190.6	1271.7	1441.4	1652.4	1825.2
-45°	683.3	733.6	794.0	873.4	947.6	1016.9	1083.3	1147.5	1215.3	1277.2	1327.8
-47.5°	650.8	696.6	745.4	797.2	851.7	918.6	984.3	1049.6	1109.0	1164.1	1208.1
-50°	620.8	656.8	700.5	744.5	788.0	832.9	878.2	928.7	985.4	1041.2	1087.1
-52.5°	596.3	629.3	660.5	691.7	729.6	767.6	805.7	845.9	884.6	921.2	949.7
-55°	536.7	583.1	628.8	658.3	683.8	709.7	738.6	774.6	808.9	841.4	860.5
-57.5°	455.7	509.4	558.8	593.6	629.2	665.2	695.0	720.7	746.7	771.5	785.0
-60°	365.5	409.6	454.3	495.8	535.4	572.8	607.5	641.3	672.5	698.8	714.8
-62.5°	276.3	312.9	349.2	383.9	417.2	449.7	486.7	522.3	556.2	583.8	600.9
-65°	192.3	222.4	250.5	277.5	303.4	331.1	359.8	387.7	414.5	435.8	449.8
-67.5°	130.8	149.3	166.1	182.2	201.8	223.1	244.2	263.8	281.8	295.6	305.4
-70°	86.9	96.8	105.6	116.0	128.9	141.8	154.9	167.0	178.1	186.3	192.5
-72.5°	53.5	60.3	66.7	73.7	80.2	87.0	94.1	101.1	107.8	112.6	116.3
-75°	25.7	28.9	34.5	39.7	44.3	48.7	52.6	56.0	59.0	60.9	62.1
-77.5°	17.5	19.0	20.4	21.8	23.2	24.9	26.7	28.4	30.1	31.3	32.4
-80°	12.7	13.4	14.0	14.6	15.1	15.8	16.6	17.4	18.2	18.5	18.7
-82.5°	8.7	9.3	9.9	10.5	11.0	11.5	12.0	12.5	12.9	13.4	13.8
-85°	5.9	6.2	6.5	6.8	7.2	7.6	8.0	8.4	8.8	8.8	8.9
-87.5°	4.1	4.2	4.3	4.3	4.4	4.7	5.0	5.3	5.6	5.6	5.6
-90°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.8	0.6



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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°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.2
87.5°	1.1	1.1	0.5	0.0	0.5	1.1	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.3
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4
75°	1.4	1.1	1.1	1.1	1.1	1.1	1.4	1.6	1.8	2.0	2.0
72.5°	3.3	3.3	2.8	2.2	2.8	3.3	3.3	3.2	3.2	3.2	3.5
70°	3.7	3.4	3.4	3.4	3.4	3.4	3.7	3.9	4.1	4.4	4.9
67.5°	5.1	5.5	5.6	5.6	5.6	5.5	5.1	4.8	4.6	4.8	5.3
65°	6.2	6.6	6.2	5.6	6.2	6.6	6.2	5.9	5.5	5.4	5.7
62.5°	4.7	4.6	4.5	4.5	4.5	4.6	4.7	4.8	4.8	5.1	5.6
60°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.6	4.8
57.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
55°	5.1	5.4	5.6	5.6	5.6	5.4	5.1	4.7	4.5	4.7	4.7
52.5°	5.5	5.6	5.6	5.6	5.6	5.6	5.5	5.4	5.2	5.4	5.5
50°	7.0	6.8	6.7	6.7	6.7	6.8	7.0	7.0	6.9	6.9	6.7
47.5°	8.7	8.1	7.8	7.8	7.8	8.1	8.7	9.1	9.3	9.2	8.9
45°	13.6	13.4	13.3	13.4	13.3	13.4	13.6	13.5	13.8	13.4	12.0
42.5°	22.7	23.1	22.7	21.3	22.7	23.1	22.7	21.9	23.4	23.4	22.1
40°	37.5	36.1	34.2	33.6	34.2	36.1	37.5	37.5	39.0	39.5	38.7
37.5°	69.7	69.7	68.1	67.2	68.1	69.7	69.7	68.8	67.2	59.1	61.4
35°	146.7	145.5	137.6	130.0	137.6	145.5	146.7	151.7	144.2	113.6	130.4
32.5°	381.0	401.2	399.3	387.7	399.3	401.2	381.0	372.1	345.5	320.9	303.8
30°	810.5	846.7	839.1	791.0	839.1	846.7	810.5	780.0	700.7	654.0	593.5
27.5°	1675.3	1760.0	1834.6	1736.7	1834.6	1760.0	1675.3	1657.0	1311.9	1456.2	1096.4
25°	5730.5	6281.5	6607.5	6100.8	6607.5	6281.5	5730.5	4764.3	3799.2	3753.8	3099.6
22.5°	13676.3	14363.0	14729.5	14938.9	14729.5	14363.0	13676.3	12222.3	10407.3	8539.9	7188.3
20°	25086.9	26555.4	27496.1	25601.1	27496.1	26555.4	25086.9	22429.3	19683.8	15797.5	12997.8
17.5°	42501.5	47917.5	50769.0	52318.3	50769.0	47917.5	42501.5	36267.1	31772.9	25963.5	20304.2
15°	64524.1	71453.7	76133.3	77965.3	76133.3	71453.7	64524.1	56282.2	45602.9	36771.4	28355.3
12.5°	85346.6	92496.9	96814.5	97899.8	96814.5	92496.9	85346.6	74485.8	60769.3	47498.3	36349.0
10°	100157.0	106894.3	111861.0	113604.6	111861.0	106894.3	100157.0	90274.1	74610.9	58944.5	42422.9
7.5°	108402.1	116277.5	120655.0	121744.7	120655.0	116277.5	108402.1	98153.0	83726.1	66775.5	49319.1
5°	113147.2	120262.8	125047.9	125628.1	125047.9	120262.8	113147.2	102845.7	89117.3	72458.1	53829.9
2.5°	116206.8	123165.7	127191.6	128374.9	127191.6	123165.7	116206.8	105676.8	92568.0	76121.0	56250.5
0°	116957.5	123355.8	128219.7	129733.4	128219.7	123355.8	116957.5	107149.7	94256.6	77427.5	57309.9
-2.5°	114684.3	120856.7	124096.6	124622.0	124096.6	120856.7	114684.3	105032.6	92065.6	76320.4	56773.1
-5°	108879.2	113444.2	117184.4	117662.8	117184.4	113444.2	108879.2	99164.7	86962.6	71244.2	52870.6
-7.5°	96548.2	101669.1	103737.7	104297.6	103737.7	101669.1	96548.2	89221.5	78209.9	63706.6	47026.9
-10°	83428.2	87815.2	89280.7	90071.8	89280.7	87815.2	83428.2	76607.7	66196.1	53155.8	38850.6
-12.5°	70583.7	74873.4	76314.9	77460.0	76314.9	74873.4	70583.7	63040.7	53562.0	41957.9	32011.5
-15°	56192.4	60416.7	62745.6	64034.8	62745.6	60416.7	56192.4	48822.9	40222.6	32296.9	24913.9
-17.5°	42166.6	46178.4	48889.0	50466.1	48889.0	46178.4	42166.6	35579.4	30389.0	24735.7	19392.6
-20°	31972.3	34687.5	36773.4	38011.2	36773.4	34687.5	31972.3	28201.7	24043.8	19704.1	15741.8



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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°	24975.1	26855.7	28064.1	28854.9	28064.1	26855.7	24975.1	22483.7	19289.5	15953.1	13109.6
-25°	19519.5	20753.7	21535.2	22174.8	21535.2	20753.7	19519.5	17824.5	15587.8	13417.0	11338.2
-27.5°	15455.4	16117.1	16462.5	16932.2	16462.5	16117.1	15455.4	14444.6	13200.1	11311.4	9493.5
-30°	12424.5	12932.3	13206.9	13308.7	13206.9	12932.3	12424.5	11613.3	10513.1	9157.6	7730.5
-32.5°	9999.7	10479.3	10825.8	10988.2	10825.8	10479.3	9999.7	9288.4	8342.5	7269.8	6162.3
-35°	7977.8	8378.0	8651.1	8801.1	8651.1	8378.0	7977.8	7355.3	6553.0	5686.5	4686.8
-37.5°	5901.4	6340.5	6641.2	6744.0	6641.2	6340.5	5901.4	5329.6	4639.0	3937.8	3179.5
-40°	3620.8	3900.5	4081.0	4156.9	4081.0	3900.5	3620.8	3245.6	2774.5	2236.8	1865.6
-42.5°	1959.9	2062.5	2133.8	2174.8	2133.8	2062.5	1959.9	1825.2	1652.4	1441.4	1271.7
-45°	1360.5	1386.5	1402.9	1409.5	1402.9	1386.5	1360.5	1327.8	1277.2	1215.3	1147.5
-47.5°	1240.3	1268.4	1283.3	1284.0	1283.3	1268.4	1240.3	1208.1	1164.1	1109.0	1049.6
-50°	1123.4	1154.0	1169.4	1170.9	1169.4	1154.0	1123.4	1087.1	1041.2	985.4	928.7
-52.5°	975.7	999.9	1010.4	1009.5	1010.4	999.9	975.7	949.7	921.2	884.6	845.9
-55°	877.1	891.5	897.9	898.6	897.9	891.5	877.1	860.5	841.4	808.9	774.6
-57.5°	797.2	807.8	811.6	811.2	811.6	807.8	797.2	785.0	771.5	746.7	720.7
-60°	728.7	740.3	743.5	741.7	743.5	740.3	728.7	714.8	698.8	672.5	641.3
-62.5°	614.8	625.5	630.8	631.9	630.8	625.5	614.8	600.9	583.8	556.2	522.3
-65°	460.8	468.8	473.0	473.9	473.0	468.8	460.8	449.8	435.8	414.5	387.7
-67.5°	313.0	318.4	320.1	319.3	320.1	318.4	313.0	305.4	295.6	281.8	263.8
-70°	197.5	201.3	202.2	201.7	202.2	201.3	197.5	192.5	186.3	178.1	167.0
-72.5°	119.3	121.5	121.7	121.0	121.7	121.5	119.3	116.3	112.6	107.8	101.1
-75°	62.9	63.3	63.2	62.7	63.2	63.3	62.9	62.1	60.9	59.0	56.0
-77.5°	33.5	34.4	34.1	33.6	34.1	34.4	33.5	32.4	31.3	30.1	28.4
-80°	18.8	18.9	19.0	19.0	19.0	18.9	18.8	18.7	18.5	18.2	17.4
-82.5°	14.2	14.5	14.0	13.4	14.0	14.5	14.2	13.8	13.4	12.9	12.5
-85°	8.9	9.0	9.0	9.0	9.0	9.0	8.9	8.9	8.8	8.8	8.4
-87.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.3
-90°	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.8	1.1	1.1



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	4.0	3.7	3.4	3.1	2.8	2.5	2.2	2.2	2.2	2.2	2.2
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.3	1.4	1.5	1.6	1.5	1.4	1.3	1.2
80°	1.5	1.7	1.8	1.8	1.9	2.1	2.2	2.2	2.2	2.1	2.0
77.5°	1.7	2.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1
75°	2.0	2.1	2.3	2.4	2.4	2.3	2.2	2.2	2.2	2.2	2.1
72.5°	3.6	3.6	3.6	3.7	3.8	4.0	4.0	3.8	3.4	2.7	2.2
70°	5.3	5.7	6.4	7.1	7.4	7.4	7.2	6.8	6.3	5.9	4.7
67.5°	5.9	6.5	7.9	9.5	10.5	11.1	11.1	10.5	9.8	9.1	7.4
65°	6.1	6.6	8.5	10.4	12.3	13.9	15.3	15.3	14.6	13.1	10.1
62.5°	6.1	6.6	8.3	10.1	12.3	15.3	18.9	20.5	20.6	18.0	14.0
60°	5.2	5.8	7.4	9.1	11.0	15.3	20.9	25.1	27.8	23.7	18.0
57.5°	4.5	5.0	6.3	7.9	9.6	14.5	20.9	28.1	32.8	27.3	22.1
55°	4.5	4.9	5.8	6.8	8.2	12.6	18.6	25.7	30.7	28.6	22.9
52.5°	5.5	5.6	5.9	6.3	7.6	10.5	14.6	21.1	24.6	23.6	21.5
50°	6.6	6.6	6.6	6.6	7.4	8.7	11.6	16.1	17.8	18.6	17.6
47.5°	8.8	8.6	7.9	7.6	8.3	8.2	9.7	11.7	13.8	14.0	14.1
45°	13.1	13.1	11.5	11.7	11.9	11.6	10.0	11.5	12.5	12.9	11.4
42.5°	22.5	21.8	20.6	19.6	18.8	17.8	16.5	15.7	14.5	13.9	13.8
40°	36.4	34.3	33.5	31.2	28.6	26.6	27.9	24.4	21.3	17.6	19.6
37.5°	57.7	48.6	54.8	49.6	43.9	43.7	45.7	40.2	31.5	33.9	32.7
35°	108.8	97.8	102.9	92.7	72.3	83.9	75.9	64.2	57.5	62.1	54.2
32.5°	250.6	242.2	208.8	183.5	166.2	154.1	134.8	103.5	107.8	105.2	89.8
30°	564.5	532.9	417.9	393.7	375.0	274.8	220.3	204.0	187.7	160.3	135.1
27.5°	1338.9	1122.3	927.7	941.3	756.8	547.1	400.4	328.7	288.6	242.0	195.9
25°	3193.4	2697.6	2301.1	2067.7	1578.7	1073.3	749.8	537.9	416.1	343.2	282.6
22.5°	6289.3	5431.8	4539.4	3733.1	2901.8	2129.0	1426.1	811.5	556.6	458.5	384.5
20°	10267.2	8654.7	7266.8	5902.0	4614.9	3366.8	2333.3	1341.7	782.6	577.0	484.4
17.5°	15638.5	12303.1	9996.1	8088.0	6493.3	4961.3	3316.3	1925.5	995.2	691.9	579.7
15°	21444.3	16205.7	12742.9	10370.2	8244.2	6035.8	4175.0	2479.7	1278.7	843.7	672.6
12.5°	27009.6	20219.1	15262.8	12038.5	9349.4	6949.6	5005.8	3184.7	1708.7	980.7	729.6
10°	31396.5	23505.5	17418.1	13482.7	10454.4	7783.4	5650.6	3677.1	1983.9	1088.1	777.6
7.5°	35438.9	25998.0	19143.6	14561.3	11383.0	8553.7	6154.5	4021.2	2158.5	1179.1	817.3
5°	37978.0	27811.5	20385.6	15169.2	12012.2	9187.1	6602.3	4259.1	2244.0	1252.4	849.0
2.5°	39317.0	28812.6	21185.2	15473.7	12357.8	9601.3	6955.0	4423.9	2295.6	1282.7	861.0
0°	40361.9	29266.1	21246.0	15538.4	12415.7	9675.1	7168.6	4504.2	2310.4	1287.4	867.2
-2.5°	39521.4	28841.1	21045.6	15348.3	12227.8	9509.7	7092.1	4627.0	2379.5	1306.2	872.1
-5°	37139.0	27226.2	19716.2	14428.5	11492.4	8968.5	6710.9	4472.1	2355.5	1295.4	870.9
-7.5°	33639.4	24606.3	17820.1	13247.4	10529.3	8212.1	6109.8	4051.5	2204.0	1227.4	846.1
-10°	28628.3	21084.9	15324.6	11750.4	9342.9	7335.2	5437.4	3564.1	1991.1	1139.8	815.9
-12.5°	23719.2	17377.0	12681.0	9971.9	7895.8	6208.1	4629.1	3013.2	1717.0	1033.6	780.9
-15°	18321.6	13762.8	10771.4	8460.9	6513.5	5116.5	3789.1	2401.6	1386.3	914.7	741.5
-17.5°	14900.0	11130.7	9049.0	7288.0	5647.8	4166.6	3042.7	1975.3	1182.9	830.8	712.9
-20°	12328.5	10013.0	8011.3	6393.3	4966.8	3636.2	2444.2	1552.4	1030.6	796.6	692.7



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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°	10967.5	9092.2	7290.2	5653.2	4315.3	3079.6	2010.7	1229.5	867.9	760.9	668.5
-25°	9592.0	8069.8	6480.7	4972.7	3623.3	2424.7	1531.4	1059.4	830.7	727.7	640.1
-27.5°	8039.5	6735.3	5491.1	4095.8	2828.6	1844.4	1213.9	902.5	797.9	702.2	606.7
-30°	6423.7	5352.9	4254.9	3088.8	2098.7	1359.9	990.7	862.1	765.7	672.9	576.3
-32.5°	4995.7	4034.5	3054.4	2178.6	1472.9	1090.7	925.5	819.9	731.4	635.7	559.3
-35°	3699.7	2821.4	2024.9	1497.4	1129.3	985.1	879.5	785.1	686.7	599.7	543.5
-37.5°	2398.7	1780.1	1415.6	1118.7	1023.7	928.2	836.6	736.6	638.3	578.4	526.1
-40°	1546.5	1222.8	1122.4	1034.1	952.9	875.8	775.4	677.3	616.4	555.4	507.1
-42.5°	1190.6	1109.0	1031.8	958.0	882.0	794.1	710.4	653.0	594.7	537.8	495.1
-45°	1083.3	1016.9	947.6	873.4	794.0	733.6	683.3	628.5	573.0	527.4	486.5
-47.5°	984.3	918.6	851.7	797.2	745.4	696.6	650.8	603.2	559.8	516.1	453.6
-50°	878.2	832.9	788.0	744.5	700.5	656.8	620.8	587.8	537.4	476.5	413.6
-52.5°	805.7	767.6	729.6	691.7	660.5	629.3	596.3	546.0	490.6	425.9	361.1
-55°	738.6	709.7	683.8	658.3	628.8	583.1	536.7	484.7	426.1	364.2	305.4
-57.5°	695.0	665.2	629.2	593.6	558.8	509.4	455.7	403.8	354.8	300.0	247.2
-60°	607.5	572.8	535.4	495.8	454.3	409.6	365.5	321.9	279.2	235.0	191.0
-62.5°	486.7	449.7	417.2	383.9	349.2	312.9	276.3	241.2	205.8	169.8	140.7
-65°	359.8	331.1	303.4	277.5	250.5	222.4	192.3	167.0	144.3	120.6	96.8
-67.5°	244.2	223.1	201.8	182.2	166.1	149.3	130.8	111.2	96.7	84.6	71.6
-70°	154.9	141.8	128.9	116.0	105.6	96.8	86.9	76.7	66.5	57.0	47.0
-72.5°	94.1	87.0	80.2	73.7	66.7	60.3	53.5	46.1	38.4	30.5	24.8
-75°	52.6	48.7	44.3	39.7	34.5	28.9	25.7	23.8	21.7	19.3	16.9
-77.5°	26.7	24.9	23.2	21.8	20.4	19.0	17.5	15.9	14.6	13.5	12.4
-80°	16.6	15.8	15.1	14.6	14.0	13.4	12.7	11.8	10.9	10.1	9.5
-82.5°	12.0	11.5	11.0	10.5	9.9	9.3	8.7	8.3	7.9	7.5	7.1
-85°	8.0	7.6	7.2	6.8	6.5	6.2	5.9	5.7	5.4	5.1	4.8
-87.5°	5.0	4.7	4.4	4.3	4.3	4.2	4.1	3.8	3.5	3.3	3.0
-90°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1



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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°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	1.6	1.4	1.2	1.1	1.1	1.1	1.1	1.1	1.3	1.3	1.3
77.5°	1.8	1.6	1.3	1.2	1.3	1.4	1.4	1.3	1.4	1.5	1.5
75°	1.8	1.5	1.3	1.2	1.5	1.7	1.8	1.7	1.7	1.7	1.8
72.5°	2.1	1.8	1.4	1.2	1.5	1.8	2.0	2.1	1.9	1.9	2.0
70°	3.4	2.4	2.0	1.8	1.7	1.8	2.1	2.2	2.2	2.1	2.1
67.5°	5.6	4.2	3.1	2.3	2.0	2.0	2.1	2.2	2.2	2.2	2.2
65°	8.0	6.1	4.4	3.2	2.5	2.2	2.2	2.2	2.2	2.2	2.2
62.5°	10.6	8.0	6.0	4.2	3.0	2.4	2.2	2.2	2.2	2.2	2.2
60°	13.4	10.1	7.6	5.6	3.7	2.5	2.2	2.2	2.2	2.2	2.2
57.5°	16.4	11.8	9.1	6.9	4.8	3.0	2.2	2.2	2.2	2.2	2.2
55°	18.4	13.9	10.6	8.0	5.8	3.8	2.5	2.2	2.2	2.2	2.2
52.5°	17.5	15.0	12.4	9.2	6.6	4.7	3.4	2.2	2.2	2.2	2.2
50°	15.1	14.8	13.4	10.6	7.4	5.7	4.3	2.9	2.2	2.2	2.2
47.5°	13.6	14.1	13.5	11.6	8.5	6.7	5.2	3.7	2.2	2.2	2.2
45°	12.9	13.2	13.3	11.9	9.9	7.9	6.2	4.4	2.8	2.2	2.2
42.5°	13.4	13.4	12.7	12.4	11.0	9.1	7.2	5.3	3.5	2.3	2.2
40°	18.1	15.1	13.0	13.3	12.4	10.1	8.2	6.2	4.1	2.6	2.3
37.5°	24.8	19.9	15.4	16.7	14.4	11.5	9.1	7.2	4.8	3.2	2.5
35°	41.7	27.9	25.8	24.4	19.1	13.1	9.8	8.0	5.7	3.7	2.6
32.5°	63.4	48.9	46.4	37.1	25.5	14.8	11.0	8.9	6.5	4.3	2.8
30°	104.9	92.2	73.8	53.2	35.2	20.8	12.9	9.9	7.3	4.8	3.0
27.5°	172.7	144.0	109.6	78.5	50.6	28.6	15.8	11.0	8.1	5.3	3.4
25°	247.0	207.1	159.5	110.2	68.2	44.5	19.2	12.3	8.9	5.9	3.8
22.5°	329.1	275.3	215.1	145.8	97.7	64.8	27.5	15.0	9.9	6.5	4.2
20°	414.7	346.4	272.4	182.5	131.3	90.2	42.3	17.8	10.9	7.1	4.5
17.5°	503.0	409.3	315.1	223.0	163.6	116.7	59.4	20.9	12.0	7.5	4.8
15°	562.7	458.1	355.6	260.0	192.8	144.0	78.2	24.0	13.1	8.0	5.2
12.5°	610.7	504.5	393.6	293.6	219.1	171.6	98.0	27.2	14.1	8.7	5.7
10°	653.5	548.0	428.9	323.8	242.9	199.1	118.3	30.5	16.0	9.7	6.1
7.5°	691.3	588.2	461.1	350.7	262.2	218.6	131.2	34.0	18.0	10.7	6.6
5°	720.6	617.5	482.3	362.7	268.6	228.5	141.0	37.2	20.0	11.6	7.0
2.5°	729.4	631.2	495.2	370.0	273.8	236.4	148.5	40.1	21.8	12.6	7.4
0°	733.9	639.8	504.2	374.2	277.9	242.0	153.5	42.6	23.5	13.4	7.8
-2.5°	737.7	642.5	508.9	381.8	286.3	246.5	161.9	54.9	31.7	18.0	9.9
-5°	737.6	640.5	509.6	386.4	293.4	249.1	168.1	66.6	39.6	22.5	11.9
-7.5°	722.6	626.5	502.8	388.0	299.0	250.2	172.3	77.5	47.0	26.6	13.8
-10°	701.4	603.6	488.0	385.6	306.1	253.8	175.3	87.3	53.6	30.2	15.5
-12.5°	676.8	577.5	472.4	382.2	313.0	259.8	180.0	96.0	59.2	33.3	17.0
-15°	648.9	548.4	457.1	378.2	319.4	264.7	182.4	103.1	63.6	35.9	18.3
-17.5°	621.0	516.9	442.9	374.1	325.5	268.8	182.5	108.4	66.8	37.8	19.5
-20°	598.2	497.3	431.2	370.4	331.4	272.2	180.2	111.6	68.9	39.0	20.5



REPORT NUMBER: P701351 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-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°	572.2	489.2	427.0	373.3	335.2	275.1	175.5	112.6	69.6	39.5	21.2
-25°	544.1	480.5	422.5	376.3	335.6	267.8	172.5	111.2	69.0	39.1	21.5
-27.5°	527.9	472.1	416.9	377.0	329.5	257.6	170.4	110.2	67.4	37.8	21.4
-30°	517.0	464.3	414.6	373.6	321.0	239.2	165.2	107.4	65.9	36.9	20.8
-32.5°	505.8	455.7	410.9	362.3	302.1	219.9	154.7	102.5	63.0	36.2	20.4
-35°	493.0	447.2	403.6	348.2	278.7	204.9	142.5	95.7	58.9	34.8	19.7
-37.5°	478.3	438.3	385.5	327.4	254.8	187.5	131.2	87.2	53.5	32.9	18.6
-40°	468.7	423.7	365.9	300.6	232.3	167.7	117.8	78.6	49.7	30.2	17.2
-42.5°	457.6	399.4	337.8	273.2	208.1	150.6	102.8	68.8	45.3	27.8	15.4
-45°	428.1	368.9	304.6	242.4	182.1	131.1	90.5	58.6	40.3	25.3	13.7
-47.5°	392.9	329.6	268.4	209.2	157.8	111.1	76.7	52.3	34.8	22.2	12.4
-50°	346.9	287.3	229.7	178.1	130.7	94.0	63.5	45.5	30.3	18.4	10.9
-52.5°	299.5	242.6	192.5	146.5	108.3	75.4	55.2	38.3	25.3	15.5	9.2
-55°	249.0	200.1	156.0	118.5	85.9	63.2	46.2	31.9	19.8	13.2	7.5
-57.5°	200.8	158.4	123.6	91.9	69.0	52.2	37.5	24.9	16.3	10.7	7.1
-60°	152.6	122.2	92.4	72.3	55.7	41.3	28.8	18.8	13.3	8.5	6.7
-62.5°	112.6	88.3	72.2	56.3	42.7	30.6	20.4	15.3	10.2	7.9	6.2
-65°	82.0	67.6	53.7	41.5	30.1	21.2	16.3	11.6	8.9	7.2	5.6
-67.5°	58.8	47.6	37.2	26.9	20.9	16.3	12.1	9.7	8.0	6.4	5.1
-70°	37.3	28.3	23.4	19.3	15.2	11.8	10.2	8.6	7.0	5.8	4.5
-72.5°	22.2	19.3	16.2	13.0	11.6	10.2	8.8	7.4	6.3	5.1	3.9
-75°	14.5	13.2	12.3	11.3	10.0	8.7	7.5	6.6	5.5	4.4	3.5
-77.5°	11.6	10.9	10.2	9.3	8.1	7.2	6.4	5.7	4.8	3.9	3.1
-80°	9.0	8.4	7.7	6.9	6.1	5.6	5.2	4.8	4.1	3.4	2.8
-82.5°	6.5	5.9	5.4	5.0	4.7	4.5	4.2	4.0	3.4	2.8	2.5
-85°	4.5	4.2	3.9	3.7	3.6	3.4	3.3	3.2	2.9	2.6	2.4
-87.5°	3.0	3.0	2.9	2.9	2.8	2.8	2.8	2.7	2.5	2.4	2.3
-90°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1



REPORT NUMBER: P701351 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	2.2	2.2	2.2	2.2	2.2	2.2	2.2
87.5°	1.1	1.2	1.2	1.2	1.2	1.7	2.2
85°	1.1	1.2	1.3	1.3	1.3	1.7	2.2
82.5°	1.1	1.3	1.4	1.4	1.4	1.7	2.2
80°	1.2	1.4	1.5	1.5	1.5	1.8	2.2
77.5°	1.4	1.5	1.6	1.6	1.6	1.8	2.2
75°	1.7	1.6	1.7	1.8	1.7	1.8	2.2
72.5°	2.0	1.8	1.8	1.9	1.8	1.8	2.2
70°	2.2	2.0	1.9	2.0	1.9	1.9	2.2
67.5°	2.2	2.1	2.0	2.0	2.0	1.9	2.2
65°	2.2	2.2	2.1	2.1	2.0	1.9	2.2
62.5°	2.2	2.2	2.1	2.1	2.1	1.9	2.2
60°	2.2	2.2	2.2	2.1	2.2	2.0	2.2
57.5°	2.2	2.2	2.2	2.1	2.2	2.0	2.2
55°	2.2	2.2	2.2	2.2	2.2	2.0	2.2
52.5°	2.2	2.2	2.2	2.2	2.2	2.0	2.2
50°	2.2	2.2	2.2	2.2	2.2	2.0	2.2
47.5°	2.2	2.2	2.2	2.2	2.2	2.1	2.2
45°	2.2	2.2	2.2	2.2	2.2	2.1	2.2
42.5°	2.2	2.2	2.2	2.2	2.2	2.1	2.2
40°	2.2	2.2	2.2	2.2	2.2	2.1	2.2
37.5°	2.2	2.2	2.2	2.2	2.2	2.1	2.2
35°	2.2	2.2	2.2	2.2	2.2	2.1	2.2
32.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2
30°	2.4	2.2	2.2	2.2	2.2	2.2	2.2
27.5°	2.5	2.2	2.2	2.2	2.2	2.2	2.2
25°	2.6	2.2	2.2	2.2	2.2	2.2	2.2
22.5°	2.8	2.2	2.2	2.2	2.2	2.2	2.2
20°	2.9	2.3	2.2	2.2	2.2	2.2	2.2
17.5°	3.1	2.4	2.2	2.2	2.2	2.2	2.2
15°	3.4	2.5	2.2	2.2	2.2	2.2	2.2
12.5°	3.6	2.7	2.2	2.2	2.2	2.2	2.2
10°	3.8	2.8	2.2	2.2	2.2	2.2	2.2
7.5°	4.0	3.0	2.2	2.2	2.2	2.2	2.2
5°	4.2	3.1	2.2	2.2	2.2	2.2	2.2
2.5°	4.3	3.3	2.2	2.2	2.2	2.2	2.2
0°	4.5	3.4	2.2	2.2	2.2	2.2	2.2
-2.5°	5.5	3.8	2.3	2.2	2.2	2.2	2.2
-5°	6.5	4.1	2.4	2.2	2.2	2.2	2.2
-7.5°	7.5	4.4	2.5	2.2	2.2	2.2	2.2
-10°	8.3	4.7	2.6	2.2	2.2	2.2	2.2
-12.5°	9.1	4.9	2.7	2.2	2.2	2.2	2.2
-15°	9.7	5.1	2.7	2.2	2.2	2.2	2.2
-17.5°	10.2	5.3	2.8	2.2	2.2	2.2	2.2
-20°	10.6	5.3	2.8	2.2	2.2	2.2	2.2



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 CATALOG NUMBER: EPH-LS-08-0320L-40-80-4S-CV1-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	11.0	5.4	2.8	2.2	2.2	2.2	2.2
-25°	11.2	5.4	2.8	2.2	2.2	2.2	2.2
-27.5°	11.1	5.4	2.8	2.2	2.2	2.2	2.2
-30°	10.9	5.3	2.8	2.2	2.2	2.2	2.2
-32.5°	10.3	5.1	2.8	2.2	2.2	2.2	2.2
-35°	9.9	4.8	2.8	2.2	2.2	2.2	2.2
-37.5°	9.5	4.5	2.8	2.2	2.2	2.2	2.2
-40°	9.0	4.5	2.8	2.2	2.2	2.2	2.2
-42.5°	8.2	4.4	2.8	2.2	2.2	2.2	2.2
-45°	7.4	4.4	2.8	2.2	2.2	2.2	2.2
-47.5°	6.3	4.2	2.9	2.3	2.2	2.2	2.2
-50°	6.0	4.1	2.9	2.3	2.2	2.2	2.2
-52.5°	5.8	3.9	2.8	2.3	2.2	2.2	2.2
-55°	5.5	3.8	2.8	2.3	2.2	2.2	2.2
-57.5°	5.2	3.7	2.7	2.3	2.2	2.2	2.2
-60°	4.9	3.5	2.6	2.3	2.2	2.2	2.2
-62.5°	4.6	3.3	2.6	2.3	2.2	2.2	2.2
-65°	4.2	3.1	2.5	2.3	2.2	2.2	2.2
-67.5°	3.8	2.9	2.5	2.2	2.2	2.2	2.2
-70°	3.4	2.8	2.4	2.2	2.2	2.2	2.2
-72.5°	3.1	2.6	2.3	2.2	2.2	2.2	2.2
-75°	2.8	2.4	2.2	2.2	2.2	2.2	2.2
-77.5°	2.5	2.3	2.2	2.2	2.2	2.2	2.2
-80°	2.2	2.2	2.2	2.2	2.2	2.2	2.2
-82.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2
-85°	2.2	2.2	2.2	2.2	2.2	2.2	2.2
-87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2
-90°	1.1	1.1	1.1	1.1	1.1	1.7	2.2

(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

