

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: P701393 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-40-70-3S-HEG-S**

Issue Date: 8/15/2023

Test Information

Test Method: LM-79-08
Report Number: P701393 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320L-40-70-3S-HEG-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 3S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

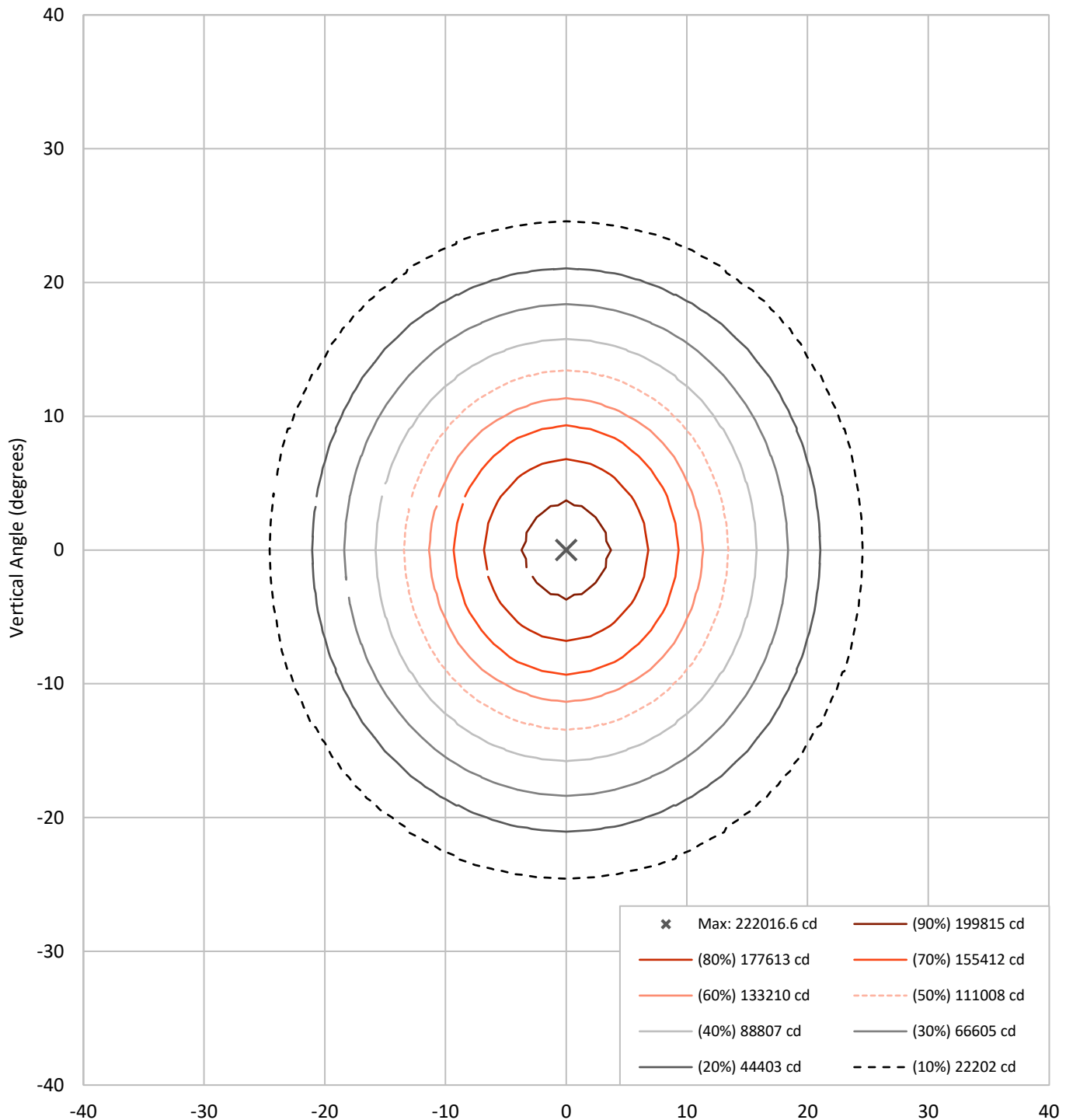
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	59963.8 lumens	Max Intensity:	222016.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	174.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	26.9°H x 26.9°V	Field Angle (10%):	48.9°H x 48.9°V
Beam Lumens:	25999.3 lumens	Field Lumens:	49775.8 lumens
Beam Efficiency:	43.4%	Field Efficiency:	83.0%

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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CATALOG NUMBER: EPH-LS-08-0320L-40-70-3S-HEG-S

Iso-Candela Plot





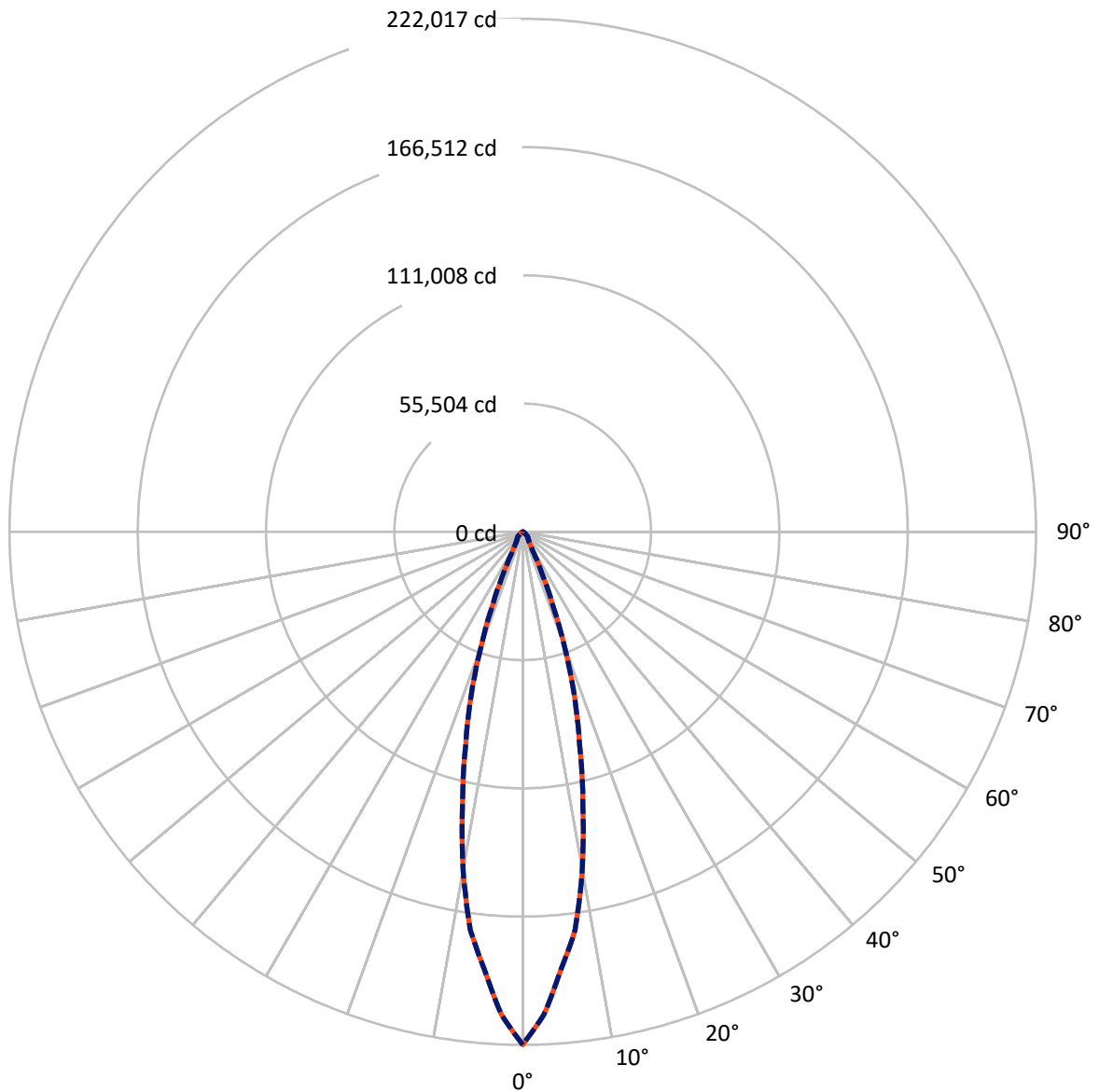
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Lumen Table

90																			
80	0.1	0.5		2.1		5.4		7.2		5.4		2.1		0.5		0.1			
70																			
60	0.2	0.3	1.3	4.0	7.8	11.9	15.2	17.1	17.1	15.2	11.9	7.8	4.0	1.3	0.3	0.2			
50		1.0	4.6	10.9	18.7	26.8	33.2	36.7	36.7	33.2	26.8	18.7	10.9	4.6	1.0				
40	0.7	2.5	8.9	19.0	31.4	49.4	70.8	83.0	83.0	70.8	49.4	31.4	19.0	8.9	2.5	0.7			
30		4.2	13.2	27.2	55.4	91.3	117.4	137.9	137.9	117.4	91.3	55.4	27.2	13.2	4.2				
20	1.6	5.7	17.1	38.9	82.6	130.8	302.5	622.2	622.2	302.5	130.8	82.6	38.9	17.1	5.7	1.6			
10		6.9	19.9	52.4	99.9	285.6	1323.4	2650.2	2650.2	1323.4	285.6	99.9	52.4	19.9	6.9				
0	2.0	7.5	21.3	59.5	114.0	572.7	2577.7	5083.7	5083.7	2577.7	572.7	114.0	59.5	21.3	7.5	2.0			
-10		7.5	21.3	59.5	114.0	572.7	2577.7	5083.7	5083.7	2577.7	572.7	114.0	59.5	21.3	7.5				
-20	1.6	6.9	19.9	52.4	99.9	285.6	1323.4	2650.2	2650.2	1323.4	285.6	99.9	52.4	19.9	6.9	1.6			
-30		5.7	17.1	38.9	82.6	130.8	302.5	622.2	622.2	302.5	130.8	82.6	38.9	17.1	5.7				
-40	0.7	4.2	13.2	27.2	55.4	91.3	117.4	137.9	137.9	117.4	91.3	55.4	27.2	13.2	4.2	0.7			
-50		2.5	8.9	19.0	31.4	49.4	70.8	83.0	83.0	70.8	49.4	31.4	19.0	8.9	2.5				
-60	0.2	1.0	4.6	10.9	18.7	26.8	33.2	36.7	36.7	33.2	26.8	18.7	10.9	4.6	1.0	0.2			
-70		0.3	1.3	4.0	7.8	11.9	15.2	17.1	17.1	15.2	11.9	7.8	4.0	1.3	0.3				
-80	0.1	0.5		2.1		5.4		7.2		5.4		2.1		0.5		0.1			
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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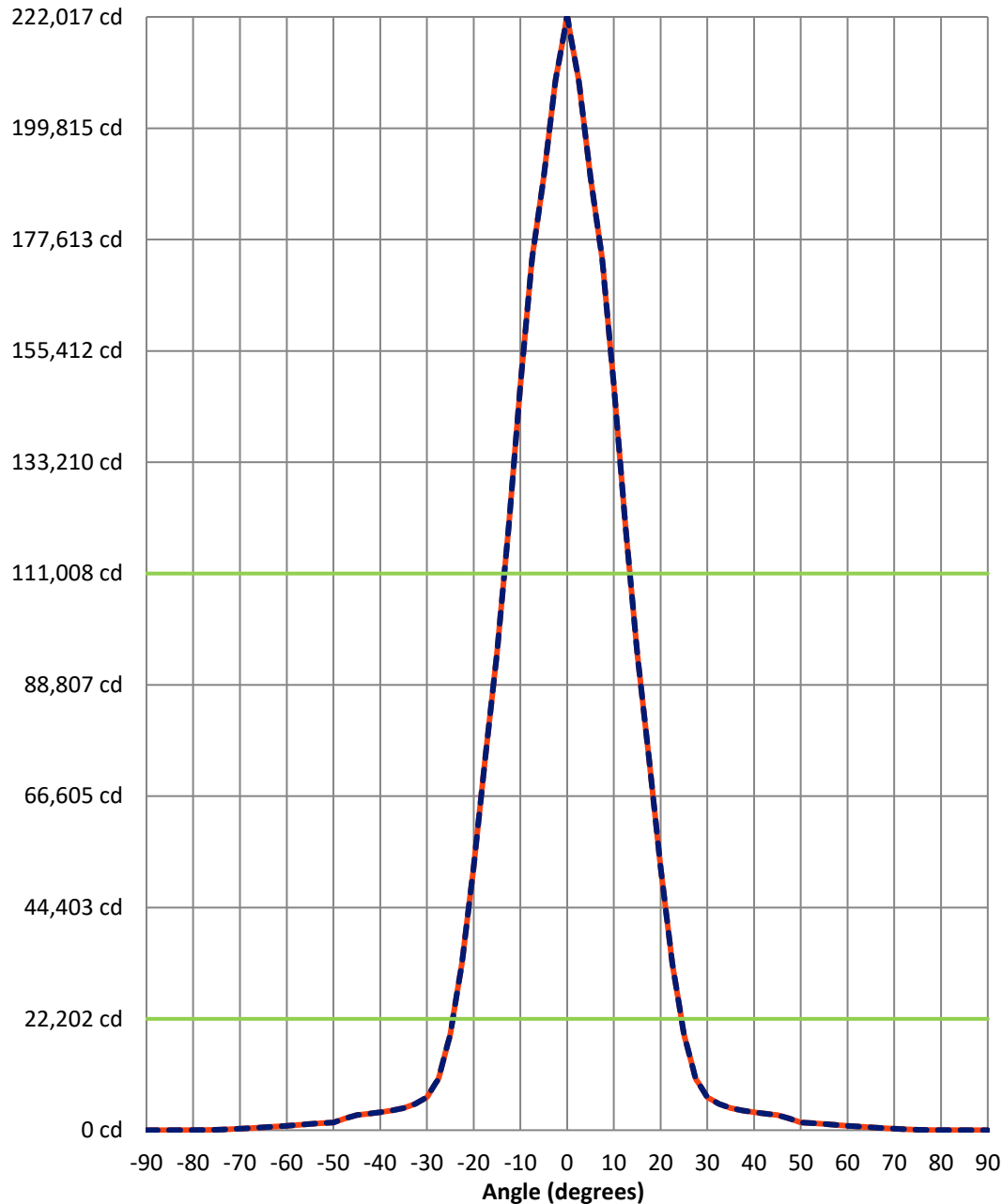
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 26.9°
 V Angle: 26.9°
 Lumens: 25999.3
 Efficiency: 43.4%

Field:
 H Angle: 48.9°
 V Angle: 48.9°
 Lumens: 49775.8
 Efficiency: 83.0%

Spill:
 Lumens: 10188
 Efficiency: 17.0%

— 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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.2	0.3	0.5	0.7	0.9	1.0	1.2	1.4	1.5	1.7
85°	0.0	0.3	0.7	1.0	1.4	1.7	2.1	2.4	2.7	3.1	3.4
82.5°	0.0	0.5	1.0	1.6	2.1	2.6	3.1	3.6	4.1	4.5	4.8
80°	0.0	0.7	1.4	2.1	2.8	3.4	4.1	4.6	5.1	5.6	6.1
77.5°	0.0	0.9	1.7	2.6	3.4	4.2	4.9	5.5	6.2	6.8	7.6
75°	0.0	1.0	2.1	3.1	4.1	4.9	5.7	6.4	7.3	8.5	9.7
72.5°	0.0	1.2	2.4	3.6	4.6	5.5	6.4	7.5	8.9	10.3	11.7
70°	0.0	1.4	2.7	4.1	5.1	6.2	7.3	8.9	10.5	12.2	14.4
67.5°	0.0	1.5	3.1	4.5	5.6	6.8	8.5	10.3	12.2	14.7	17.2
65°	0.0	1.7	3.4	4.8	6.1	7.6	9.7	11.7	14.4	17.2	20.8
62.5°	0.0	1.8	3.7	5.2	6.6	8.6	10.8	13.5	16.6	20.2	26.3
60°	0.0	2.0	4.0	5.5	7.1	9.5	12.0	15.4	18.8	25.0	31.6
57.5°	0.0	2.1	4.2	5.9	7.8	10.5	13.5	17.2	22.5	29.7	45.4
55°	0.0	2.3	4.5	6.2	8.5	11.4	15.0	19.0	26.6	36.8	62.9
52.5°	0.0	2.4	4.7	6.6	9.2	12.3	16.5	22.3	30.6	52.1	79.9
50°	0.0	2.6	4.9	6.9	9.9	13.5	18.0	25.7	37.2	67.0	111.0
47.5°	0.0	2.7	5.1	7.2	10.6	14.7	19.6	28.9	49.9	81.4	142.7
45°	0.0	2.8	5.3	7.7	11.2	15.8	22.3	32.0	62.3	108.5	173.3
42.5°	0.0	2.9	5.5	8.1	11.8	16.9	24.8	39.3	74.1	135.0	209.3
40°	0.0	3.1	5.6	8.6	12.5	17.9	27.3	49.1	88.9	160.2	244.9
37.5°	0.0	3.2	5.8	9.0	13.3	18.9	29.6	58.5	110.2	186.0	278.8
35°	0.0	3.3	6.0	9.4	14.0	20.4	31.8	67.4	130.4	214.8	310.7
32.5°	0.0	3.4	6.1	9.7	14.7	22.1	35.4	75.7	149.4	242.0	340.3
30°	0.0	3.5	6.3	10.1	15.4	23.7	42.1	85.3	167.2	267.4	368.0
27.5°	0.0	3.5	6.4	10.4	16.0	25.2	48.2	99.7	185.4	291.1	393.9
25°	0.0	3.6	6.5	10.7	16.5	26.6	53.9	113.0	204.6	312.6	418.0
22.5°	0.0	3.7	6.6	11.0	17.0	27.9	59.1	125.0	222.2	332.0	445.5
20°	0.0	3.8	6.7	11.2	17.5	29.0	63.8	135.9	238.0	349.5	470.4
17.5°	0.0	3.8	6.8	11.4	17.9	30.0	68.0	145.6	252.1	365.1	492.5
15°	0.0	3.9	6.9	11.6	18.2	30.9	71.6	154.0	264.4	378.6	511.8
12.5°	0.0	3.9	7.0	11.7	18.5	31.6	74.7	161.2	274.8	390.2	528.3
10°	0.0	3.9	7.0	11.9	18.8	32.2	77.2	167.1	283.4	399.7	541.8
7.5°	0.0	4.0	7.0	12.0	19.0	32.7	79.2	171.7	290.1	407.1	552.4
5°	0.0	4.0	7.1	12.0	19.1	33.0	80.6	175.0	294.9	412.4	559.9
2.5°	0.0	4.0	7.1	12.1	19.2	33.2	81.4	176.9	297.7	415.6	564.5
0°	0.0	4.0	7.1	12.1	19.2	33.2	81.4	176.9	297.7	415.6	564.5
-2.5°	0.0	4.0	7.1	12.1	19.2	33.2	81.4	176.9	297.7	415.6	564.5
-5°	0.0	4.0	7.1	12.0	19.1	33.0	80.6	175.0	294.9	412.4	559.9
-7.5°	0.0	4.0	7.0	12.0	19.0	32.7	79.2	171.7	290.1	407.1	552.4
-10°	0.0	3.9	7.0	11.9	18.8	32.2	77.2	167.1	283.4	399.7	541.8
-12.5°	0.0	3.9	7.0	11.7	18.5	31.6	74.7	161.2	274.8	390.2	528.3
-15°	0.0	3.9	6.9	11.6	18.2	30.9	71.6	154.0	264.4	378.6	511.8
-17.5°	0.0	3.8	6.8	11.4	17.9	30.0	68.0	145.6	252.1	365.1	492.5
-20°	0.0	3.8	6.7	11.2	17.5	29.0	63.8	135.9	238.0	349.5	470.4



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 CATALOG NUMBER: EPH-LS-08-0320L-40-70-3S-HEG-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	3.7	6.6	11.0	17.0	27.9	59.1	125.0	222.2	332.0	445.5
-25°	0.0	3.6	6.5	10.7	16.5	26.6	53.9	113.0	204.6	312.6	418.0
-27.5°	0.0	3.5	6.4	10.4	16.0	25.2	48.2	99.7	185.4	291.1	393.9
-30°	0.0	3.5	6.3	10.1	15.4	23.7	42.1	85.3	167.2	267.4	368.0
-32.5°	0.0	3.4	6.1	9.7	14.7	22.1	35.4	75.7	149.4	242.0	340.3
-35°	0.0	3.3	6.0	9.4	14.0	20.4	31.8	67.4	130.4	214.8	310.7
-37.5°	0.0	3.2	5.8	9.0	13.3	18.9	29.6	58.5	110.2	186.0	278.8
-40°	0.0	3.1	5.6	8.6	12.5	17.9	27.3	49.1	88.9	160.2	244.9
-42.5°	0.0	2.9	5.5	8.1	11.8	16.9	24.8	39.3	74.1	135.0	209.3
-45°	0.0	2.8	5.3	7.7	11.2	15.8	22.3	32.0	62.3	108.5	173.3
-47.5°	0.0	2.7	5.1	7.2	10.6	14.7	19.6	28.9	49.9	81.4	142.7
-50°	0.0	2.6	4.9	6.9	9.9	13.5	18.0	25.7	37.2	67.0	111.0
-52.5°	0.0	2.4	4.7	6.6	9.2	12.3	16.5	22.3	30.6	52.1	79.9
-55°	0.0	2.3	4.5	6.2	8.5	11.4	15.0	19.0	26.6	36.8	62.9
-57.5°	0.0	2.1	4.2	5.9	7.8	10.5	13.5	17.2	22.5	29.7	45.4
-60°	0.0	2.0	4.0	5.5	7.1	9.5	12.0	15.4	18.8	25.0	31.6
-62.5°	0.0	1.8	3.7	5.2	6.6	8.6	10.8	13.5	16.6	20.2	26.3
-65°	0.0	1.7	3.4	4.8	6.1	7.6	9.7	11.7	14.4	17.2	20.8
-67.5°	0.0	1.5	3.1	4.5	5.6	6.8	8.5	10.3	12.2	14.7	17.2
-70°	0.0	1.4	2.7	4.1	5.1	6.2	7.3	8.9	10.5	12.2	14.4
-72.5°	0.0	1.2	2.4	3.6	4.6	5.5	6.4	7.5	8.9	10.3	11.7
-75°	0.0	1.0	2.1	3.1	4.1	4.9	5.7	6.4	7.3	8.5	9.7
-77.5°	0.0	0.9	1.7	2.6	3.4	4.2	4.9	5.5	6.2	6.8	7.6
-80°	0.0	0.7	1.4	2.1	2.8	3.4	4.1	4.6	5.1	5.6	6.1
-82.5°	0.0	0.5	1.0	1.6	2.1	2.6	3.1	3.6	4.1	4.5	4.8
-85°	0.0	0.3	0.7	1.0	1.4	1.7	2.1	2.4	2.7	3.1	3.4
-87.5°	0.0	0.2	0.3	0.5	0.7	0.9	1.0	1.2	1.4	1.5	1.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: EPH-LS-08-0320L-40-70-3S-HEG-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.8	2.9	3.1	3.2
85°	3.7	4.0	4.2	4.5	4.7	4.9	5.1	5.3	5.5	5.6	5.8
82.5°	5.2	5.5	5.9	6.2	6.6	6.9	7.2	7.7	8.1	8.6	9.0
80°	6.6	7.1	7.8	8.5	9.2	9.9	10.6	11.2	11.8	12.5	13.3
77.5°	8.6	9.5	10.5	11.4	12.3	13.5	14.7	15.8	16.9	17.9	18.9
75°	10.8	12.0	13.5	15.0	16.5	18.0	19.6	22.3	24.8	27.3	29.6
72.5°	13.5	15.4	17.2	19.0	22.3	25.7	28.9	32.0	39.3	49.1	58.5
70°	16.6	18.8	22.5	26.6	30.6	37.2	49.9	62.3	74.1	88.9	110.2
67.5°	20.2	25.0	29.7	36.8	52.1	67.0	81.4	108.5	135.0	160.2	186.0
65°	26.3	31.6	45.4	62.9	79.9	111.0	142.7	173.3	209.3	244.9	278.8
62.5°	32.2	49.7	69.4	95.4	132.5	168.6	210.4	253.0	294.0	332.4	369.0
60°	49.7	71.6	104.1	145.6	188.3	238.0	286.2	332.0	375.7	418.0	468.7
57.5°	69.4	104.1	150.0	199.4	254.7	308.3	359.3	408.6	466.7	524.5	580.1
55°	95.4	145.6	199.4	260.3	319.3	375.9	434.6	501.9	567.0	630.9	692.1
52.5°	132.5	188.3	254.7	319.3	381.4	448.7	523.3	596.3	667.7	736.0	800.2
50°	168.6	238.0	308.3	375.9	448.7	530.4	611.0	690.0	765.2	837.0	915.3
47.5°	210.4	286.2	359.3	434.6	523.3	611.0	697.5	779.9	859.2	952.4	1043.8
45°	253.0	332.0	408.6	501.9	596.3	690.0	779.9	866.7	971.2	1073.2	1174.9
42.5°	294.0	375.7	466.7	567.0	667.7	765.2	859.2	971.2	1083.2	1195.1	1292.9
40°	332.4	418.0	524.5	630.9	736.0	837.0	952.4	1073.2	1195.1	1301.5	1396.8
37.5°	369.0	468.7	580.1	692.1	800.2	915.3	1043.8	1174.9	1292.9	1396.8	1481.2
35°	403.7	516.9	633.8	749.5	861.5	996.9	1134.9	1267.4	1379.4	1473.8	1706.0
32.5°	441.7	562.5	684.6	803.3	932.3	1075.6	1221.8	1344.8	1451.7	1613.4	2180.5
30°	480.7	606.2	732.1	853.9	1000.2	1152.1	1293.7	1415.3	1516.8	2038.9	2582.5
27.5°	516.9	646.9	775.5	909.5	1064.4	1223.8	1357.9	1472.6	1806.2	2423.9	2936.7
25°	550.4	684.6	815.7	963.8	1126.0	1282.3	1415.0	1526.1	2157.9	2734.9	3116.4
22.5°	581.4	719.1	852.6	1013.6	1182.6	1333.4	1460.8	1789.2	2458.7	3015.4	3243.4
20°	609.6	749.5	890.5	1059.2	1233.9	1379.7	1502.4	2064.9	2704.0	3123.8	3365.0
17.5°	634.8	776.6	927.4	1101.3	1273.5	1417.9	1570.9	2312.5	2924.7	3221.6	3477.2
15°	656.7	800.2	959.6	1138.1	1306.9	1448.1	1771.8	2497.5	3054.8	3309.6	3577.4
12.5°	675.4	820.4	987.1	1169.6	1335.5	1473.9	1944.0	2651.7	3123.4	3388.8	3682.8
10°	690.8	837.0	1009.8	1195.5	1359.1	1495.3	2086.3	2779.4	3180.3	3454.6	3770.5
7.5°	702.9	849.9	1027.5	1215.8	1377.6	1512.0	2198.0	2879.7	3225.1	3506.4	3839.7
5°	711.5	859.2	1040.2	1230.4	1390.8	1524.0	2278.3	2951.8	3257.3	3543.8	3889.7
2.5°	716.7	864.8	1047.8	1239.2	1398.8	1531.3	2326.7	2995.4	3276.8	3566.4	3920.0
0°	718.4	866.7	1050.4	1242.1	1401.5	1533.7	2342.9	3009.9	3283.3	3573.9	3930.1
-2.5°	716.7	864.8	1047.8	1239.2	1398.8	1531.3	2326.7	2995.4	3276.8	3566.4	3920.0
-5°	711.5	859.2	1040.2	1230.4	1390.8	1524.0	2278.3	2951.8	3257.3	3543.8	3889.7
-7.5°	702.9	849.9	1027.5	1215.8	1377.6	1512.0	2198.0	2879.7	3225.1	3506.4	3839.7
-10°	690.8	837.0	1009.8	1195.5	1359.1	1495.3	2086.3	2779.4	3180.3	3454.6	3770.5
-12.5°	675.4	820.4	987.1	1169.6	1335.5	1473.9	1944.0	2651.7	3123.4	3388.8	3682.8
-15°	656.7	800.2	959.6	1138.1	1306.9	1448.1	1771.8	2497.5	3054.8	3309.6	3577.4
-17.5°	634.8	776.6	927.4	1101.3	1273.5	1417.9	1570.9	2312.5	2924.7	3221.6	3477.2
-20°	609.6	749.5	890.5	1059.2	1233.9	1379.7	1502.4	2064.9	2704.0	3123.8	3365.0



REPORT NUMBER: P701393 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-3S-HEG-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	581.4	719.1	852.6	1013.6	1182.6	1333.4	1460.8	1789.2	2458.7	3015.4	3243.4
-25°	550.4	684.6	815.7	963.8	1126.0	1282.3	1415.0	1526.1	2157.9	2734.9	3116.4
-27.5°	516.9	646.9	775.5	909.5	1064.4	1223.8	1357.9	1472.6	1806.2	2423.9	2936.7
-30°	480.7	606.2	732.1	853.9	1000.2	1152.1	1293.7	1415.3	1516.8	2038.9	2582.5
-32.5°	441.7	562.5	684.6	803.3	932.3	1075.6	1221.8	1344.8	1451.7	1613.4	2180.5
-35°	403.7	516.9	633.8	749.5	861.5	996.9	1134.9	1267.4	1379.4	1473.8	1706.0
-37.5°	369.0	468.7	580.1	692.1	800.2	915.3	1043.8	1174.9	1292.9	1396.8	1481.2
-40°	332.4	418.0	524.5	630.9	736.0	837.0	952.4	1073.2	1195.1	1301.5	1396.8
-42.5°	294.0	375.7	466.7	567.0	667.7	765.2	859.2	971.2	1083.2	1195.1	1292.9
-45°	253.0	332.0	408.6	501.9	596.3	690.0	779.9	866.7	971.2	1073.2	1174.9
-47.5°	210.4	286.2	359.3	434.6	523.3	611.0	697.5	779.9	859.2	952.4	1043.8
-50°	168.6	238.0	308.3	375.9	448.7	530.4	611.0	690.0	765.2	837.0	915.3
-52.5°	132.5	188.3	254.7	319.3	381.4	448.7	523.3	596.3	667.7	736.0	800.2
-55°	95.4	145.6	199.4	260.3	319.3	375.9	434.6	501.9	567.0	630.9	692.1
-57.5°	69.4	104.1	150.0	199.4	254.7	308.3	359.3	408.6	466.7	524.5	580.1
-60°	49.7	71.6	104.1	145.6	188.3	238.0	286.2	332.0	375.7	418.0	468.7
-62.5°	32.2	49.7	69.4	95.4	132.5	168.6	210.4	253.0	294.0	332.4	369.0
-65°	26.3	31.6	45.4	62.9	79.9	111.0	142.7	173.3	209.3	244.9	278.8
-67.5°	20.2	25.0	29.7	36.8	52.1	67.0	81.4	108.5	135.0	160.2	186.0
-70°	16.6	18.8	22.5	26.6	30.6	37.2	49.9	62.3	74.1	88.9	110.2
-72.5°	13.5	15.4	17.2	19.0	22.3	25.7	28.9	32.0	39.3	49.1	58.5
-75°	10.8	12.0	13.5	15.0	16.5	18.0	19.6	22.3	24.8	27.3	29.6
-77.5°	8.6	9.5	10.5	11.4	12.3	13.5	14.7	15.8	16.9	17.9	18.9
-80°	6.6	7.1	7.8	8.5	9.2	9.9	10.6	11.2	11.8	12.5	13.3
-82.5°	5.2	5.5	5.9	6.2	6.6	6.9	7.2	7.7	8.1	8.6	9.0
-85°	3.7	4.0	4.2	4.5	4.7	4.9	5.1	5.3	5.5	5.6	5.8
-87.5°	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.8	2.9	3.1	3.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P701393 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-3S-HEG-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	3.4	3.5	3.5	3.6	3.7	3.8	3.8	3.9	3.9	3.9
85°	6.0	6.1	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.0
82.5°	9.4	9.7	10.1	10.4	10.7	11.0	11.2	11.4	11.6	11.7	11.9
80°	14.0	14.7	15.4	16.0	16.5	17.0	17.5	17.9	18.2	18.5	18.8
77.5°	20.4	22.1	23.7	25.2	26.6	27.9	29.0	30.0	30.9	31.6	32.2
75°	31.8	35.4	42.1	48.2	53.9	59.1	63.8	68.0	71.6	74.7	77.2
72.5°	67.4	75.7	85.3	99.7	113.0	125.0	135.9	145.6	154.0	161.2	167.1
70°	130.4	149.4	167.2	185.4	204.6	222.2	238.0	252.1	264.4	274.8	283.4
67.5°	214.8	242.0	267.4	291.1	312.6	332.0	349.5	365.1	378.6	390.2	399.7
65°	310.7	340.3	368.0	393.9	418.0	445.5	470.4	492.5	511.8	528.3	541.8
62.5°	403.7	441.7	480.7	516.9	550.4	581.4	609.6	634.8	656.7	675.4	690.8
60°	516.9	562.5	606.2	646.9	684.6	719.1	749.5	776.6	800.2	820.4	837.0
57.5°	633.8	684.6	732.1	775.5	815.7	852.6	890.5	927.4	959.6	987.1	1009.8
55°	749.5	803.3	853.9	909.5	963.8	1013.6	1059.2	1101.3	1138.1	1169.6	1195.5
52.5°	861.5	932.3	1000.2	1064.4	1126.0	1182.6	1233.9	1273.5	1306.9	1335.5	1359.1
50°	996.9	1075.6	1152.1	1223.8	1282.3	1333.4	1379.7	1417.9	1448.1	1473.9	1495.3
47.5°	1134.9	1221.8	1293.7	1357.9	1415.0	1460.8	1502.4	1570.9	1771.8	1944.0	2086.3
45°	1267.4	1344.8	1415.3	1472.6	1526.1	1789.2	2064.9	2312.5	2497.5	2651.7	2779.4
42.5°	1379.4	1451.7	1516.8	1806.2	2157.9	2458.7	2704.0	2924.7	3054.8	3123.4	3180.3
40°	1473.8	1613.4	2038.9	2423.9	2734.9	3015.4	3123.8	3221.6	3309.6	3388.8	3454.6
37.5°	1706.0	2180.5	2582.5	2936.7	3116.4	3243.4	3365.0	3477.2	3577.4	3682.8	3770.5
35°	2228.0	2662.7	3030.3	3185.1	3334.0	3478.9	3621.1	3769.7	3901.8	4044.6	4171.5
32.5°	2662.7	3047.2	3219.8	3390.9	3556.6	3743.0	3919.1	4128.5	4318.7	4547.2	4794.1
30°	3030.3	3219.8	3410.0	3601.0	3817.6	4051.2	4302.7	4634.2	5001.9	5365.5	5787.1
27.5°	3185.1	3390.9	3601.0	3842.7	4120.3	4414.7	4896.5	5391.6	6015.2	6562.2	7877.4
25°	3334.0	3556.6	3817.6	4120.3	4479.1	5030.2	5716.8	6464.4	8213.7	9921.6	12774.7
22.5°	3478.9	3743.0	4051.2	4414.7	5030.2	5826.8	6934.7	9240.8	12712.0	17094.7	21886.0
20°	3621.1	3919.1	4302.7	4896.5	5716.8	6934.7	9589.1	14428.1	20195.0	27945.0	35099.1
17.5°	3769.7	4128.5	4634.2	5391.6	6464.4	9240.8	14428.1	21676.4	31086.2	41820.3	51885.8
15°	3901.8	4318.7	5001.9	6015.2	8213.7	12712.0	20195.0	31086.2	44125.6	57432.6	70271.2
12.5°	4044.6	4547.2	5365.5	6562.2	9921.6	17094.7	27945.0	41820.3	57432.6	73389.4	87204.9
10°	4171.5	4794.1	5787.1	7877.4	12774.7	21886.0	35099.1	51885.8	70271.2	87204.9	103686.1
7.5°	4271.9	4989.9	6122.7	8932.2	15505.3	26771.2	42475.5	61278.6	80739.6	99507.1	120580.2
5°	4344.6	5131.9	6366.7	9702.0	17506.8	30372.8	47955.7	68393.6	88580.6	110458.2	134562.2
2.5°	4388.6	5218.0	6514.9	10170.7	18729.5	32582.3	51337.4	72820.0	93517.4	117807.0	144824.6
0°	4403.3	5246.8	6564.6	10328.1	19140.8	33327.3	52481.2	74324.0	95206.3	120341.6	148517.9
-2.5°	4388.6	5218.0	6514.9	10170.7	18729.5	32582.3	51337.4	72820.0	93517.4	117807.0	144824.6
-5°	4344.6	5131.9	6366.7	9702.0	17506.8	30372.8	47955.7	68393.6	88580.6	110458.2	134562.2
-7.5°	4271.9	4989.9	6122.7	8932.2	15505.3	26771.2	42475.5	61278.6	80739.6	99507.1	120580.2
-10°	4171.5	4794.1	5787.1	7877.4	12774.7	21886.0	35099.1	51885.8	70271.2	87204.9	103686.1
-12.5°	4044.6	4547.2	5365.5	6562.2	9921.6	17094.7	27945.0	41820.3	57432.6	73389.4	87204.9
-15°	3901.8	4318.7	5001.9	6015.2	8213.7	12712.0	20195.0	31086.2	44125.6	57432.6	70271.2
-17.5°	3769.7	4128.5	4634.2	5391.6	6464.4	9240.8	14428.1	21676.4	31086.2	41820.3	51885.8
-20°	3621.1	3919.1	4302.7	4896.5	5716.8	6934.7	9589.1	14428.1	20195.0	27945.0	35099.1



REPORT NUMBER: P701393 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-3S-HEG-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3478.9	3743.0	4051.2	4414.7	5030.2	5826.8	6934.7	9240.8	12712.0	17094.7	21886.0
-25°	3334.0	3556.6	3817.6	4120.3	4479.1	5030.2	5716.8	6464.4	8213.7	9921.6	12774.7
-27.5°	3185.1	3390.9	3601.0	3842.7	4120.3	4414.7	4896.5	5391.6	6015.2	6562.2	7877.4
-30°	3030.3	3219.8	3410.0	3601.0	3817.6	4051.2	4302.7	4634.2	5001.9	5365.5	5787.1
-32.5°	2662.7	3047.2	3219.8	3390.9	3556.6	3743.0	3919.1	4128.5	4318.7	4547.2	4794.1
-35°	2228.0	2662.7	3030.3	3185.1	3334.0	3478.9	3621.1	3769.7	3901.8	4044.6	4171.5
-37.5°	1706.0	2180.5	2582.5	2936.7	3116.4	3243.4	3365.0	3477.2	3577.4	3682.8	3770.5
-40°	1473.8	1613.4	2038.9	2423.9	2734.9	3015.4	3123.8	3221.6	3309.6	3388.8	3454.6
-42.5°	1379.4	1451.7	1516.8	1806.2	2157.9	2458.7	2704.0	2924.7	3054.8	3123.4	3180.3
-45°	1267.4	1344.8	1415.3	1472.6	1526.1	1789.2	2064.9	2312.5	2497.5	2651.7	2779.4
-47.5°	1134.9	1221.8	1293.7	1357.9	1415.0	1460.8	1502.4	1570.9	1771.8	1944.0	2086.3
-50°	996.9	1075.6	1152.1	1223.8	1282.3	1333.4	1379.7	1417.9	1448.1	1473.9	1495.3
-52.5°	861.5	932.3	1000.2	1064.4	1126.0	1182.6	1233.9	1273.5	1306.9	1335.5	1359.1
-55°	749.5	803.3	853.9	909.5	963.8	1013.6	1059.2	1101.3	1138.1	1169.6	1195.5
-57.5°	633.8	684.6	732.1	775.5	815.7	852.6	890.5	927.4	959.6	987.1	1009.8
-60°	516.9	562.5	606.2	646.9	684.6	719.1	749.5	776.6	800.2	820.4	837.0
-62.5°	403.7	441.7	480.7	516.9	550.4	581.4	609.6	634.8	656.7	675.4	690.8
-65°	310.7	340.3	368.0	393.9	418.0	445.5	470.4	492.5	511.8	528.3	541.8
-67.5°	214.8	242.0	267.4	291.1	312.6	332.0	349.5	365.1	378.6	390.2	399.7
-70°	130.4	149.4	167.2	185.4	204.6	222.2	238.0	252.1	264.4	274.8	283.4
-72.5°	67.4	75.7	85.3	99.7	113.0	125.0	135.9	145.6	154.0	161.2	167.1
-75°	31.8	35.4	42.1	48.2	53.9	59.1	63.8	68.0	71.6	74.7	77.2
-77.5°	20.4	22.1	23.7	25.2	26.6	27.9	29.0	30.0	30.9	31.6	32.2
-80°	14.0	14.7	15.4	16.0	16.5	17.0	17.5	17.9	18.2	18.5	18.8
-82.5°	9.4	9.7	10.1	10.4	10.7	11.0	11.2	11.4	11.6	11.7	11.9
-85°	6.0	6.1	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.0
-87.5°	3.3	3.4	3.5	3.5	3.6	3.7	3.8	3.8	3.9	3.9	3.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P701393 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-3S-HEG-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.8
85°	7.0	7.1	7.1	7.1	7.1	7.1	7.0	7.0	7.0	6.9	6.8
82.5°	12.0	12.0	12.1	12.1	12.1	12.0	12.0	11.9	11.7	11.6	11.4
80°	19.0	19.1	19.2	19.2	19.2	19.1	19.0	18.8	18.5	18.2	17.9
77.5°	32.7	33.0	33.2	33.3	33.2	33.0	32.7	32.2	31.6	30.9	30.0
75°	79.2	80.6	81.4	81.7	81.4	80.6	79.2	77.2	74.7	71.6	68.0
72.5°	171.7	175.0	176.9	177.6	176.9	175.0	171.7	167.1	161.2	154.0	145.6
70°	290.1	294.9	297.7	298.7	297.7	294.9	290.1	283.4	274.8	264.4	252.1
67.5°	407.1	412.4	415.6	416.7	415.6	412.4	407.1	399.7	390.2	378.6	365.1
65°	552.4	559.9	564.5	566.0	564.5	559.9	552.4	541.8	528.3	511.8	492.5
62.5°	702.9	711.5	716.7	718.4	716.7	711.5	702.9	690.8	675.4	656.7	634.8
60°	849.9	859.2	864.8	866.7	864.8	859.2	849.9	837.0	820.4	800.2	776.6
57.5°	1027.5	1040.2	1047.8	1050.4	1047.8	1040.2	1027.5	1009.8	987.1	959.6	927.4
55°	1215.8	1230.4	1239.2	1242.1	1239.2	1230.4	1215.8	1195.5	1169.6	1138.1	1101.3
52.5°	1377.6	1390.8	1398.8	1401.5	1398.8	1390.8	1377.6	1359.1	1335.5	1306.9	1273.5
50°	1512.0	1524.0	1531.3	1533.7	1531.3	1524.0	1512.0	1495.3	1473.9	1448.1	1417.9
47.5°	2198.0	2278.3	2326.7	2342.9	2326.7	2278.3	2198.0	2086.3	1944.0	1771.8	1570.9
45°	2879.7	2951.8	2995.4	3009.9	2995.4	2951.8	2879.7	2779.4	2651.7	2497.5	2312.5
42.5°	3225.1	3257.3	3276.8	3283.3	3276.8	3257.3	3225.1	3180.3	3123.4	3054.8	2924.7
40°	3506.4	3543.8	3566.4	3573.9	3566.4	3543.8	3506.4	3454.6	3388.8	3309.6	3221.6
37.5°	3839.7	3889.7	3920.0	3930.1	3920.0	3889.7	3839.7	3770.5	3682.8	3577.4	3477.2
35°	4271.9	4344.6	4388.6	4403.3	4388.6	4344.6	4271.9	4171.5	4044.6	3901.8	3769.7
32.5°	4989.9	5131.9	5218.0	5246.8	5218.0	5131.9	4989.9	4794.1	4547.2	4318.7	4128.5
30°	6122.7	6366.7	6514.9	6564.6	6514.9	6366.7	6122.7	5787.1	5365.5	5001.9	4634.2
27.5°	8932.2	9702.0	10170.7	10328.1	10170.7	9702.0	8932.2	7877.4	6562.2	6015.2	5391.6
25°	15505.3	17506.8	18729.5	19140.8	18729.5	17506.8	15505.3	12774.7	9921.6	8213.7	6464.4
22.5°	26771.2	30372.8	32582.3	33327.3	32582.3	30372.8	26771.2	21886.0	17094.7	12712.0	9240.8
20°	42475.5	47955.7	51337.4	52481.2	51337.4	47955.7	42475.5	35099.1	27945.0	20195.0	14428.1
17.5°	61278.6	68393.6	72820.0	74324.0	72820.0	68393.6	61278.6	51885.8	41820.3	31086.2	21676.4
15°	80739.6	88580.6	93517.4	95206.3	93517.4	88580.6	80739.6	70271.2	57432.6	44125.6	31086.2
12.5°	99507.1	110458.2	117807.0	120341.6	117807.0	110458.2	99507.1	87204.9	73389.4	57432.6	41820.3
10°	120580.2	134562.2	144824.6	148517.9	144824.6	134562.2	120580.2	103686.1	87204.9	70271.2	51885.8
7.5°	141348.8	160224.0	170664.9	173764.7	170664.9	160224.0	141348.8	120580.2	99507.1	80739.6	61278.6
5°	160224.0	177094.9	186751.9	190092.8	186751.9	177094.9	160224.0	134562.2	110458.2	88580.6	68393.6
2.5°	170664.9	186751.9	200156.7	209252.8	200156.7	186751.9	170664.9	144824.6	117807.0	93517.4	72820.0
0°	173764.7	190092.8	209252.8	222016.6	209252.8	190092.8	173764.7	148517.9	120341.6	95206.3	74324.0
-2.5°	170664.9	186751.9	200156.7	209252.8	200156.7	186751.9	170664.9	144824.6	117807.0	93517.4	72820.0
-5°	160224.0	177094.9	186751.9	190092.8	186751.9	177094.9	160224.0	134562.2	110458.2	88580.6	68393.6
-7.5°	141348.8	160224.0	170664.9	173764.7	170664.9	160224.0	141348.8	120580.2	99507.1	80739.6	61278.6
-10°	120580.2	134562.2	144824.6	148517.9	144824.6	134562.2	120580.2	103686.1	87204.9	70271.2	51885.8
-12.5°	99507.1	110458.2	117807.0	120341.6	117807.0	110458.2	99507.1	87204.9	73389.4	57432.6	41820.3
-15°	80739.6	88580.6	93517.4	95206.3	93517.4	88580.6	80739.6	70271.2	57432.6	44125.6	31086.2
-17.5°	61278.6	68393.6	72820.0	74324.0	72820.0	68393.6	61278.6	51885.8	41820.3	31086.2	21676.4
-20°	42475.5	47955.7	51337.4	52481.2	51337.4	47955.7	42475.5	35099.1	27945.0	20195.0	14428.1



REPORT NUMBER: P701393 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-3S-HEG-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	26771.2	30372.8	32582.3	33327.3	32582.3	30372.8	26771.2	21886.0	17094.7	12712.0	9240.8
-25°	15505.3	17506.8	18729.5	19140.8	18729.5	17506.8	15505.3	12774.7	9921.6	8213.7	6464.4
-27.5°	8932.2	9702.0	10170.7	10328.1	10170.7	9702.0	8932.2	7877.4	6562.2	6015.2	5391.6
-30°	6122.7	6366.7	6514.9	6564.6	6514.9	6366.7	6122.7	5787.1	5365.5	5001.9	4634.2
-32.5°	4989.9	5131.9	5218.0	5246.8	5218.0	5131.9	4989.9	4794.1	4547.2	4318.7	4128.5
-35°	4271.9	4344.6	4388.6	4403.3	4388.6	4344.6	4271.9	4171.5	4044.6	3901.8	3769.7
-37.5°	3839.7	3889.7	3920.0	3930.1	3920.0	3889.7	3839.7	3770.5	3682.8	3577.4	3477.2
-40°	3506.4	3543.8	3566.4	3573.9	3566.4	3543.8	3506.4	3454.6	3388.8	3309.6	3221.6
-42.5°	3225.1	3257.3	3276.8	3283.3	3276.8	3257.3	3225.1	3180.3	3123.4	3054.8	2924.7
-45°	2879.7	2951.8	2995.4	3009.9	2995.4	2951.8	2879.7	2779.4	2651.7	2497.5	2312.5
-47.5°	2198.0	2278.3	2326.7	2342.9	2326.7	2278.3	2198.0	2086.3	1944.0	1771.8	1570.9
-50°	1512.0	1524.0	1531.3	1533.7	1531.3	1524.0	1512.0	1495.3	1473.9	1448.1	1417.9
-52.5°	1377.6	1390.8	1398.8	1401.5	1398.8	1390.8	1377.6	1359.1	1335.5	1306.9	1273.5
-55°	1215.8	1230.4	1239.2	1242.1	1239.2	1230.4	1215.8	1195.5	1169.6	1138.1	1101.3
-57.5°	1027.5	1040.2	1047.8	1050.4	1047.8	1040.2	1027.5	1009.8	987.1	959.6	927.4
-60°	849.9	859.2	864.8	866.7	864.8	859.2	849.9	837.0	820.4	800.2	776.6
-62.5°	702.9	711.5	716.7	718.4	716.7	711.5	702.9	690.8	675.4	656.7	634.8
-65°	552.4	559.9	564.5	566.0	564.5	559.9	552.4	541.8	528.3	511.8	492.5
-67.5°	407.1	412.4	415.6	416.7	415.6	412.4	407.1	399.7	390.2	378.6	365.1
-70°	290.1	294.9	297.7	298.7	297.7	294.9	290.1	283.4	274.8	264.4	252.1
-72.5°	171.7	175.0	176.9	177.6	176.9	175.0	171.7	167.1	161.2	154.0	145.6
-75°	79.2	80.6	81.4	81.7	81.4	80.6	79.2	77.2	74.7	71.6	68.0
-77.5°	32.7	33.0	33.2	33.3	33.2	33.0	32.7	32.2	31.6	30.9	30.0
-80°	19.0	19.1	19.2	19.2	19.2	19.1	19.0	18.8	18.5	18.2	17.9
-82.5°	12.0	12.0	12.1	12.1	12.1	12.0	12.0	11.9	11.7	11.6	11.4
-85°	7.0	7.1	7.1	7.1	7.1	7.1	7.0	7.0	7.0	6.9	6.8
-87.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P701393 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-3S-HEG-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	3.7	3.6	3.5	3.5	3.4	3.3	3.2	3.1	2.9	2.8
85°	6.7	6.6	6.5	6.4	6.3	6.1	6.0	5.8	5.6	5.5	5.3
82.5°	11.2	11.0	10.7	10.4	10.1	9.7	9.4	9.0	8.6	8.1	7.7
80°	17.5	17.0	16.5	16.0	15.4	14.7	14.0	13.3	12.5	11.8	11.2
77.5°	29.0	27.9	26.6	25.2	23.7	22.1	20.4	18.9	17.9	16.9	15.8
75°	63.8	59.1	53.9	48.2	42.1	35.4	31.8	29.6	27.3	24.8	22.3
72.5°	135.9	125.0	113.0	99.7	85.3	75.7	67.4	58.5	49.1	39.3	32.0
70°	238.0	222.2	204.6	185.4	167.2	149.4	130.4	110.2	88.9	74.1	62.3
67.5°	349.5	332.0	312.6	291.1	267.4	242.0	214.8	186.0	160.2	135.0	108.5
65°	470.4	445.5	418.0	393.9	368.0	340.3	310.7	278.8	244.9	209.3	173.3
62.5°	609.6	581.4	550.4	516.9	480.7	441.7	403.7	369.0	332.4	294.0	253.0
60°	749.5	719.1	684.6	646.9	606.2	562.5	516.9	468.7	418.0	375.7	332.0
57.5°	890.5	852.6	815.7	775.5	732.1	684.6	633.8	580.1	524.5	466.7	408.6
55°	1059.2	1013.6	963.8	909.5	853.9	803.3	749.5	692.1	630.9	567.0	501.9
52.5°	1233.9	1182.6	1126.0	1064.4	1000.2	932.3	861.5	800.2	736.0	667.7	596.3
50°	1379.7	1333.4	1282.3	1223.8	1152.1	1075.6	996.9	915.3	837.0	765.2	690.0
47.5°	1502.4	1460.8	1415.0	1357.9	1293.7	1221.8	1134.9	1043.8	952.4	859.2	779.9
45°	2064.9	1789.2	1526.1	1472.6	1415.3	1344.8	1267.4	1174.9	1073.2	971.2	866.7
42.5°	2704.0	2458.7	2157.9	1806.2	1516.8	1451.7	1379.4	1292.9	1195.1	1083.2	971.2
40°	3123.8	3015.4	2734.9	2423.9	2038.9	1613.4	1473.8	1396.8	1301.5	1195.1	1073.2
37.5°	3365.0	3243.4	3116.4	2936.7	2582.5	2180.5	1706.0	1481.2	1396.8	1292.9	1174.9
35°	3621.1	3478.9	3334.0	3185.1	3030.3	2662.7	2228.0	1706.0	1473.8	1379.4	1267.4
32.5°	3919.1	3743.0	3556.6	3390.9	3219.8	3047.2	2662.7	2180.5	1613.4	1451.7	1344.8
30°	4302.7	4051.2	3817.6	3601.0	3410.0	3219.8	3030.3	2582.5	2038.9	1516.8	1415.3
27.5°	4896.5	4414.7	4120.3	3842.7	3601.0	3390.9	3185.1	2936.7	2423.9	1806.2	1472.6
25°	5716.8	5030.2	4479.1	4120.3	3817.6	3556.6	3334.0	3116.4	2734.9	2157.9	1526.1
22.5°	6934.7	5826.8	5030.2	4414.7	4051.2	3743.0	3478.9	3243.4	3015.4	2458.7	1789.2
20°	9589.1	6934.7	5716.8	4896.5	4302.7	3919.1	3621.1	3365.0	3123.8	2704.0	2064.9
17.5°	14428.1	9240.8	6464.4	5391.6	4634.2	4128.5	3769.7	3477.2	3221.6	2924.7	2312.5
15°	20195.0	12712.0	8213.7	6015.2	5001.9	4318.7	3901.8	3577.4	3309.6	3054.8	2497.5
12.5°	27945.0	17094.7	9921.6	6562.2	5365.5	4547.2	4044.6	3682.8	3388.8	3123.4	2651.7
10°	35099.1	21886.0	12774.7	7877.4	5787.1	4794.1	4171.5	3770.5	3454.6	3180.3	2779.4
7.5°	42475.5	26771.2	15505.3	8932.2	6122.7	4989.9	4271.9	3839.7	3506.4	3225.1	2879.7
5°	47955.7	30372.8	17506.8	9702.0	6366.7	5131.9	4344.6	3889.7	3543.8	3257.3	2951.8
2.5°	51337.4	32582.3	18729.5	10170.7	6514.9	5218.0	4388.6	3920.0	3566.4	3276.8	2995.4
0°	52481.2	33327.3	19140.8	10328.1	6564.6	5246.8	4403.3	3930.1	3573.9	3283.3	3009.9
-2.5°	51337.4	32582.3	18729.5	10170.7	6514.9	5218.0	4388.6	3920.0	3566.4	3276.8	2995.4
-5°	47955.7	30372.8	17506.8	9702.0	6366.7	5131.9	4344.6	3889.7	3543.8	3257.3	2951.8
-7.5°	42475.5	26771.2	15505.3	8932.2	6122.7	4989.9	4271.9	3839.7	3506.4	3225.1	2879.7
-10°	35099.1	21886.0	12774.7	7877.4	5787.1	4794.1	4171.5	3770.5	3454.6	3180.3	2779.4
-12.5°	27945.0	17094.7	9921.6	6562.2	5365.5	4547.2	4044.6	3682.8	3388.8	3123.4	2651.7
-15°	20195.0	12712.0	8213.7	6015.2	5001.9	4318.7	3901.8	3577.4	3309.6	3054.8	2497.5
-17.5°	14428.1	9240.8	6464.4	5391.6	4634.2	4128.5	3769.7	3477.2	3221.6	2924.7	2312.5
-20°	9589.1	6934.7	5716.8	4896.5	4302.7	3919.1	3621.1	3365.0	3123.8	2704.0	2064.9



REPORT NUMBER: P701393 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-3S-HEG-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	6934.7	5826.8	5030.2	4414.7	4051.2	3743.0	3478.9	3243.4	3015.4	2458.7	1789.2
-25°	5716.8	5030.2	4479.1	4120.3	3817.6	3556.6	3334.0	3116.4	2734.9	2157.9	1526.1
-27.5°	4896.5	4414.7	4120.3	3842.7	3601.0	3390.9	3185.1	2936.7	2423.9	1806.2	1472.6
-30°	4302.7	4051.2	3817.6	3601.0	3410.0	3219.8	3030.3	2582.5	2038.9	1516.8	1415.3
-32.5°	3919.1	3743.0	3556.6	3390.9	3219.8	3047.2	2662.7	2180.5	1613.4	1451.7	1344.8
-35°	3621.1	3478.9	3334.0	3185.1	3030.3	2662.7	2228.0	1706.0	1473.8	1379.4	1267.4
-37.5°	3365.0	3243.4	3116.4	2936.7	2582.5	2180.5	1706.0	1481.2	1396.8	1292.9	1174.9
-40°	3123.8	3015.4	2734.9	2423.9	2038.9	1613.4	1473.8	1396.8	1301.5	1195.1	1073.2
-42.5°	2704.0	2458.7	2157.9	1806.2	1516.8	1451.7	1379.4	1292.9	1195.1	1083.2	971.2
-45°	2064.9	1789.2	1526.1	1472.6	1415.3	1344.8	1267.4	1174.9	1073.2	971.2	866.7
-47.5°	1502.4	1460.8	1415.0	1357.9	1293.7	1221.8	1134.9	1043.8	952.4	859.2	779.9
-50°	1379.7	1333.4	1282.3	1223.8	1152.1	1075.6	996.9	915.3	837.0	765.2	690.0
-52.5°	1233.9	1182.6	1126.0	1064.4	1000.2	932.3	861.5	800.2	736.0	667.7	596.3
-55°	1059.2	1013.6	963.8	909.5	853.9	803.3	749.5	692.1	630.9	567.0	501.9
-57.5°	890.5	852.6	815.7	775.5	732.1	684.6	633.8	580.1	524.5	466.7	408.6
-60°	749.5	719.1	684.6	646.9	606.2	562.5	516.9	468.7	418.0	375.7	332.0
-62.5°	609.6	581.4	550.4	516.9	480.7	441.7	403.7	369.0	332.4	294.0	253.0
-65°	470.4	445.5	418.0	393.9	368.0	340.3	310.7	278.8	244.9	209.3	173.3
-67.5°	349.5	332.0	312.6	291.1	267.4	242.0	214.8	186.0	160.2	135.0	108.5
-70°	238.0	222.2	204.6	185.4	167.2	149.4	130.4	110.2	88.9	74.1	62.3
-72.5°	135.9	125.0	113.0	99.7	85.3	75.7	67.4	58.5	49.1	39.3	32.0
-75°	63.8	59.1	53.9	48.2	42.1	35.4	31.8	29.6	27.3	24.8	22.3
-77.5°	29.0	27.9	26.6	25.2	23.7	22.1	20.4	18.9	17.9	16.9	15.8
-80°	17.5	17.0	16.5	16.0	15.4	14.7	14.0	13.3	12.5	11.8	11.2
-82.5°	11.2	11.0	10.7	10.4	10.1	9.7	9.4	9.0	8.6	8.1	7.7
-85°	6.7	6.6	6.5	6.4	6.3	6.1	6.0	5.8	5.6	5.5	5.3
-87.5°	3.8	3.7	3.6	3.5	3.5	3.4	3.3	3.2	3.1	2.9	2.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P701393 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-3S-HEG-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	2.6	2.4	2.3	2.1	2.0	1.8	1.7	1.5	1.4	1.2
85°	5.1	4.9	4.7	4.5	4.2	4.0	3.7	3.4	3.1	2.7	2.4
82.5°	7.2	6.9	6.6	6.2	5.9	5.5	5.2	4.8	4.5	4.1	3.6
80°	10.6	9.9	9.2	8.5	7.8	7.1	6.6	6.1	5.6	5.1	4.6
77.5°	14.7	13.5	12.3	11.4	10.5	9.5	8.6	7.6	6.8	6.2	5.5
75°	19.6	18.0	16.5	15.0	13.5	12.0	10.8	9.7	8.5	7.3	6.4
72.5°	28.9	25.7	22.3	19.0	17.2	15.4	13.5	11.7	10.3	8.9	7.5
70°	49.9	37.2	30.6	26.6	22.5	18.8	16.6	14.4	12.2	10.5	8.9
67.5°	81.4	67.0	52.1	36.8	29.7	25.0	20.2	17.2	14.7	12.2	10.3
65°	142.7	111.0	79.9	62.9	45.4	31.6	26.3	20.8	17.2	14.4	11.7
62.5°	210.4	168.6	132.5	95.4	69.4	49.7	32.2	26.3	20.2	16.6	13.5
60°	286.2	238.0	188.3	145.6	104.1	71.6	49.7	31.6	25.0	18.8	15.4
57.5°	359.3	308.3	254.7	199.4	150.0	104.1	69.4	45.4	29.7	22.5	17.2
55°	434.6	375.9	319.3	260.3	199.4	145.6	95.4	62.9	36.8	26.6	19.0
52.5°	523.3	448.7	381.4	319.3	254.7	188.3	132.5	79.9	52.1	30.6	22.3
50°	611.0	530.4	448.7	375.9	308.3	238.0	168.6	111.0	67.0	37.2	25.7
47.5°	697.5	611.0	523.3	434.6	359.3	286.2	210.4	142.7	81.4	49.9	28.9
45°	779.9	690.0	596.3	501.9	408.6	332.0	253.0	173.3	108.5	62.3	32.0
42.5°	859.2	765.2	667.7	567.0	466.7	375.7	294.0	209.3	135.0	74.1	39.3
40°	952.4	837.0	736.0	630.9	524.5	418.0	332.4	244.9	160.2	88.9	49.1
37.5°	1043.8	915.3	800.2	692.1	580.1	468.7	369.0	278.8	186.0	110.2	58.5
35°	1134.9	996.9	861.5	749.5	633.8	516.9	403.7	310.7	214.8	130.4	67.4
32.5°	1221.8	1075.6	932.3	803.3	684.6	562.5	441.7	340.3	242.0	149.4	75.7
30°	1293.7	1152.1	1000.2	853.9	732.1	606.2	480.7	368.0	267.4	167.2	85.3
27.5°	1357.9	1223.8	1064.4	909.5	775.5	646.9	516.9	393.9	291.1	185.4	99.7
25°	1415.0	1282.3	1126.0	963.8	815.7	684.6	550.4	418.0	312.6	204.6	113.0
22.5°	1460.8	1333.4	1182.6	1013.6	852.6	719.1	581.4	445.5	332.0	222.2	125.0
20°	1502.4	1379.7	1233.9	1059.2	890.5	749.5	609.6	470.4	349.5	238.0	135.9
17.5°	1570.9	1417.9	1273.5	1101.3	927.4	776.6	634.8	492.5	365.1	252.1	145.6
15°	1771.8	1448.1	1306.9	1138.1	959.6	800.2	656.7	511.8	378.6	264.4	154.0
12.5°	1944.0	1473.9	1335.5	1169.6	987.1	820.4	675.4	528.3	390.2	274.8	161.2
10°	2086.3	1495.3	1359.1	1195.5	1009.8	837.0	690.8	541.8	399.7	283.4	167.1
7.5°	2198.0	1512.0	1377.6	1215.8	1027.5	849.9	702.9	552.4	407.1	290.1	171.7
5°	2278.3	1524.0	1390.8	1230.4	1040.2	859.2	711.5	559.9	412.4	294.9	175.0
2.5°	2326.7	1531.3	1398.8	1239.2	1047.8	864.8	716.7	564.5	415.6	297.7	176.9
0°	2342.9	1533.7	1401.5	1242.1	1050.4	866.7	718.4	566.0	416.7	298.7	177.6
-2.5°	2326.7	1531.3	1398.8	1239.2	1047.8	864.8	716.7	564.5	415.6	297.7	176.9
-5°	2278.3	1524.0	1390.8	1230.4	1040.2	859.2	711.5	559.9	412.4	294.9	175.0
-7.5°	2198.0	1512.0	1377.6	1215.8	1027.5	849.9	702.9	552.4	407.1	290.1	171.7
-10°	2086.3	1495.3	1359.1	1195.5	1009.8	837.0	690.8	541.8	399.7	283.4	167.1
-12.5°	1944.0	1473.9	1335.5	1169.6	987.1	820.4	675.4	528.3	390.2	274.8	161.2
-15°	1771.8	1448.1	1306.9	1138.1	959.6	800.2	656.7	511.8	378.6	264.4	154.0
-17.5°	1570.9	1417.9	1273.5	1101.3	927.4	776.6	634.8	492.5	365.1	252.1	145.6
-20°	1502.4	1379.7	1233.9	1059.2	890.5	749.5	609.6	470.4	349.5	238.0	135.9



REPORT NUMBER: P701393 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-3S-HEG-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1460.8	1333.4	1182.6	1013.6	852.6	719.1	581.4	445.5	332.0	222.2	125.0
-25°	1415.0	1282.3	1126.0	963.8	815.7	684.6	550.4	418.0	312.6	204.6	113.0
-27.5°	1357.9	1223.8	1064.4	909.5	775.5	646.9	516.9	393.9	291.1	185.4	99.7
-30°	1293.7	1152.1	1000.2	853.9	732.1	606.2	480.7	368.0	267.4	167.2	85.3
-32.5°	1221.8	1075.6	932.3	803.3	684.6	562.5	441.7	340.3	242.0	149.4	75.7
-35°	1134.9	996.9	861.5	749.5	633.8	516.9	403.7	310.7	214.8	130.4	67.4
-37.5°	1043.8	915.3	800.2	692.1	580.1	468.7	369.0	278.8	186.0	110.2	58.5
-40°	952.4	837.0	736.0	630.9	524.5	418.0	332.4	244.9	160.2	88.9	49.1
-42.5°	859.2	765.2	667.7	567.0	466.7	375.7	294.0	209.3	135.0	74.1	39.3
-45°	779.9	690.0	596.3	501.9	408.6	332.0	253.0	173.3	108.5	62.3	32.0
-47.5°	697.5	611.0	523.3	434.6	359.3	286.2	210.4	142.7	81.4	49.9	28.9
-50°	611.0	530.4	448.7	375.9	308.3	238.0	168.6	111.0	67.0	37.2	25.7
-52.5°	523.3	448.7	381.4	319.3	254.7	188.3	132.5	79.9	52.1	30.6	22.3
-55°	434.6	375.9	319.3	260.3	199.4	145.6	95.4	62.9	36.8	26.6	19.0
-57.5°	359.3	308.3	254.7	199.4	150.0	104.1	69.4	45.4	29.7	22.5	17.2
-60°	286.2	238.0	188.3	145.6	104.1	71.6	49.7	31.6	25.0	18.8	15.4
-62.5°	210.4	168.6	132.5	95.4	69.4	49.7	32.2	26.3	20.2	16.6	13.5
-65°	142.7	111.0	79.9	62.9	45.4	31.6	26.3	20.8	17.2	14.4	11.7
-67.5°	81.4	67.0	52.1	36.8	29.7	25.0	20.2	17.2	14.7	12.2	10.3
-70°	49.9	37.2	30.6	26.6	22.5	18.8	16.6	14.4	12.2	10.5	8.9
-72.5°	28.9	25.7	22.3	19.0	17.2	15.4	13.5	11.7	10.3	8.9	7.5
-75°	19.6	18.0	16.5	15.0	13.5	12.0	10.8	9.7	8.5	7.3	6.4
-77.5°	14.7	13.5	12.3	11.4	10.5	9.5	8.6	7.6	6.8	6.2	5.5
-80°	10.6	9.9	9.2	8.5	7.8	7.1	6.6	6.1	5.6	5.1	4.6
-82.5°	7.2	6.9	6.6	6.2	5.9	5.5	5.2	4.8	4.5	4.1	3.6
-85°	5.1	4.9	4.7	4.5	4.2	4.0	3.7	3.4	3.1	2.7	2.4
-87.5°	2.7	2.6	2.4	2.3	2.1	2.0	1.8	1.7	1.5	1.4	1.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P701393 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-3S-HEG-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.9	0.7	0.5	0.3	0.2	0.0
85°	2.1	1.7	1.4	1.0	0.7	0.3	0.0
82.5°	3.1	2.6	2.1	1.6	1.0	0.5	0.0
80°	4.1	3.4	2.8	2.1	1.4	0.7	0.0
77.5°	4.9	4.2	3.4	2.6	1.7	0.9	0.0
75°	5.7	4.9	4.1	3.1	2.1	1.0	0.0
72.5°	6.4	5.5	4.6	3.6	2.4	1.2	0.0
70°	7.3	6.2	5.1	4.1	2.7	1.4	0.0
67.5°	8.5	6.8	5.6	4.5	3.1	1.5	0.0
65°	9.7	7.6	6.1	4.8	3.4	1.7	0.0
62.5°	10.8	8.6	6.6	5.2	3.7	1.8	0.0
60°	12.0	9.5	7.1	5.5	4.0	2.0	0.0
57.5°	13.5	10.5	7.8	5.9	4.2	2.1	0.0
55°	15.0	11.4	8.5	6.2	4.5	2.3	0.0
52.5°	16.5	12.3	9.2	6.6	4.7	2.4	0.0
50°	18.0	13.5	9.9	6.9	4.9	2.6	0.0
47.5°	19.6	14.7	10.6	7.2	5.1	2.7	0.0
45°	22.3	15.8	11.2	7.7	5.3	2.8	0.0
42.5°	24.8	16.9	11.8	8.1	5.5	2.9	0.0
40°	27.3	17.9	12.5	8.6	5.6	3.1	0.0
37.5°	29.6	18.9	13.3	9.0	5.8	3.2	0.0
35°	31.8	20.4	14.0	9.4	6.0	3.3	0.0
32.5°	35.4	22.1	14.7	9.7	6.1	3.4	0.0
30°	42.1	23.7	15.4	10.1	6.3	3.5	0.0
27.5°	48.2	25.2	16.0	10.4	6.4	3.5	0.0
25°	53.9	26.6	16.5	10.7	6.5	3.6	0.0
22.5°	59.1	27.9	17.0	11.0	6.6	3.7	0.0
20°	63.8	29.0	17.5	11.2	6.7	3.8	0.0
17.5°	68.0	30.0	17.9	11.4	6.8	3.8	0.0
15°	71.6	30.9	18.2	11.6	6.9	3.9	0.0
12.5°	74.7	31.6	18.5	11.7	7.0	3.9	0.0
10°	77.2	32.2	18.8	11.9	7.0	3.9	0.0
7.5°	79.2	32.7	19.0	12.0	7.0	4.0	0.0
5°	80.6	33.0	19.1	12.0	7.1	4.0	0.0
2.5°	81.4	33.2	19.2	12.1	7.1	4.0	0.0
0°	81.7	33.3	19.2	12.1	7.1	4.0	0.0
-2.5°	81.4	33.2	19.2	12.1	7.1	4.0	0.0
-5°	80.6	33.0	19.1	12.0	7.1	4.0	0.0
-7.5°	79.2	32.7	19.0	12.0	7.0	4.0	0.0
-10°	77.2	32.2	18.8	11.9	7.0	3.9	0.0
-12.5°	74.7	31.6	18.5	11.7	7.0	3.9	0.0
-15°	71.6	30.9	18.2	11.6	6.9	3.9	0.0
-17.5°	68.0	30.0	17.9	11.4	6.8	3.8	0.0
-20°	63.8	29.0	17.5	11.2	6.7	3.8	0.0



REPORT NUMBER: P701393 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-3S-HEG-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	59.1	27.9	17.0	11.0	6.6	3.7	0.0
-25°	53.9	26.6	16.5	10.7	6.5	3.6	0.0
-27.5°	48.2	25.2	16.0	10.4	6.4	3.5	0.0
-30°	42.1	23.7	15.4	10.1	6.3	3.5	0.0
-32.5°	35.4	22.1	14.7	9.7	6.1	3.4	0.0
-35°	31.8	20.4	14.0	9.4	6.0	3.3	0.0
-37.5°	29.6	18.9	13.3	9.0	5.8	3.2	0.0
-40°	27.3	17.9	12.5	8.6	5.6	3.1	0.0
-42.5°	24.8	16.9	11.8	8.1	5.5	2.9	0.0
-45°	22.3	15.8	11.2	7.7	5.3	2.8	0.0
-47.5°	19.6	14.7	10.6	7.2	5.1	2.7	0.0
-50°	18.0	13.5	9.9	6.9	4.9	2.6	0.0
-52.5°	16.5	12.3	9.2	6.6	4.7	2.4	0.0
-55°	15.0	11.4	8.5	6.2	4.5	2.3	0.0
-57.5°	13.5	10.5	7.8	5.9	4.2	2.1	0.0
-60°	12.0	9.5	7.1	5.5	4.0	2.0	0.0
-62.5°	10.8	8.6	6.6	5.2	3.7	1.8	0.0
-65°	9.7	7.6	6.1	4.8	3.4	1.7	0.0
-67.5°	8.5	6.8	5.6	4.5	3.1	1.5	0.0
-70°	7.3	6.2	5.1	4.1	2.7	1.4	0.0
-72.5°	6.4	5.5	4.6	3.6	2.4	1.2	0.0
-75°	5.7	4.9	4.1	3.1	2.1	1.0	0.0
-77.5°	4.9	4.2	3.4	2.6	1.7	0.9	0.0
-80°	4.1	3.4	2.8	2.1	1.4	0.7	0.0
-82.5°	3.1	2.6	2.1	1.6	1.0	0.5	0.0
-85°	2.1	1.7	1.4	1.0	0.7	0.3	0.0
-87.5°	1.0	0.9	0.7	0.5	0.3	0.2	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(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

