

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: P701400 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 8/15/2023

Test Information

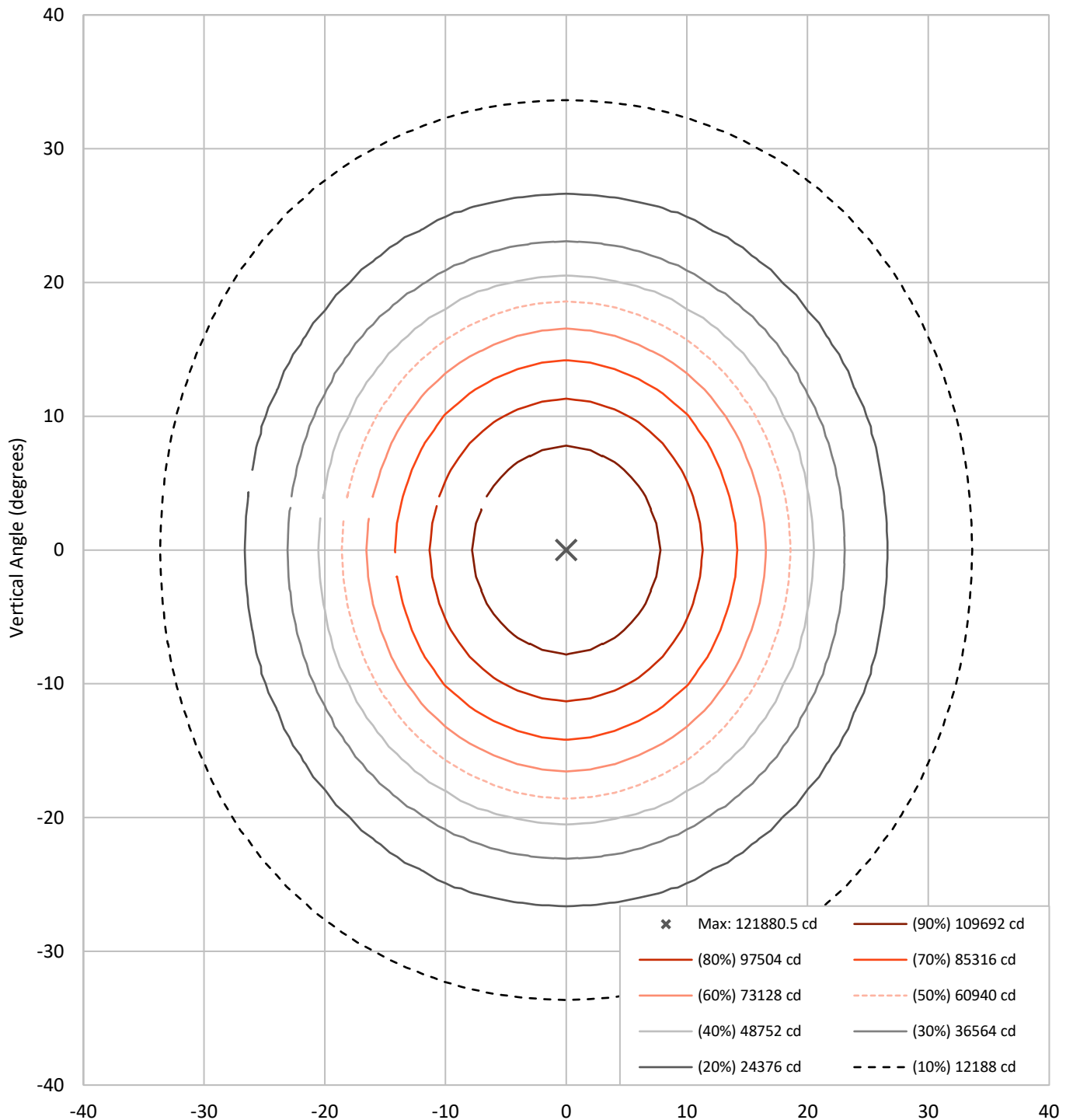
Test Method: LM-79-08
Report Number: P701400 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-4)
Test Lab: INNOVATION CENTER
Issue Date: 8/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320L-40-80-4S-HEG-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 4S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	56285.5 lumens	Max Intensity:	121880.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	163.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	37.2°H x 37.2°V	Field Angle (10%):	67.2°H x 67.2°V
Beam Lumens:	29301.8 lumens	Field Lumens:	49222.1 lumens
Beam Efficiency:	52.1%	Field Efficiency:	87.5%
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





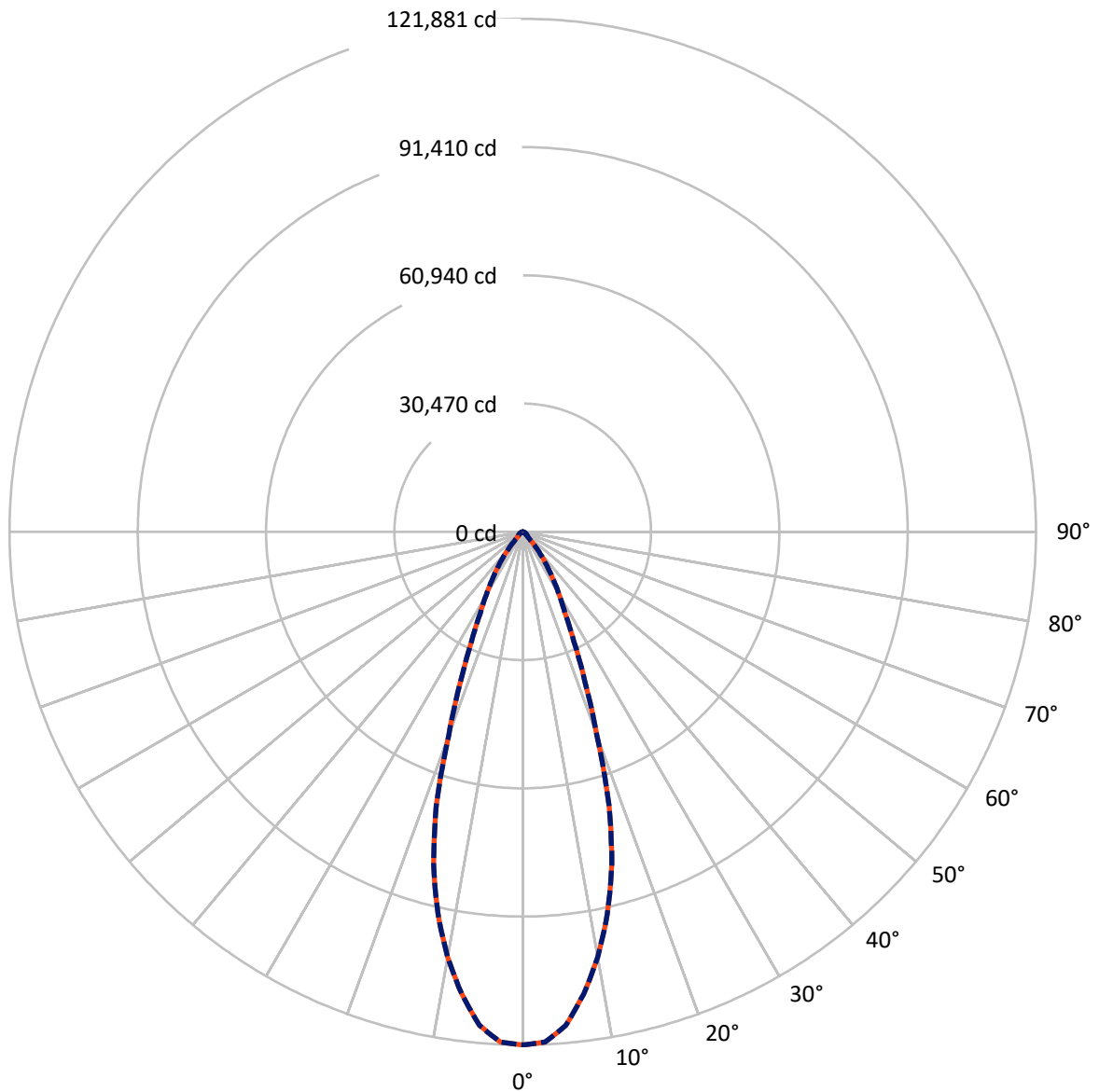
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Lumen Table

90																
80	0.1	0.4		1.7		4.0		5.2		4.0		1.7		0.4		0.1
70																
60	0.2	0.3	1.0	2.8	5.8	9.5	12.7	14.5	14.5	12.7	9.5	5.8	2.8	1.0	0.3	0.2
50		0.8	3.3	9.0	16.6	23.4	28.3	31.1	31.1	28.3	23.4	16.6	9.0	3.3	0.8	
40	0.6	1.7	7.4	16.9	26.2	36.4	52.3	69.0	69.0	52.3	36.4	26.2	16.9	7.4	1.7	0.6
30		3.1	11.8	22.7	39.4	105.9	224.0	310.8	310.8	224.0	105.9	39.4	22.7	11.8	3.1	
20	1.2	4.6	14.9	28.5	96.4	301.2	589.1	875.9	875.9	589.1	301.2	96.4	28.5	14.9	4.6	1.2
10		5.8	17.0	38.7	191.9	554.6	1373.6	2254.8	2254.8	1373.6	554.6	191.9	38.7	17.0	5.8	
0	1.4	6.4	18.1	49.9	258.2	802.0	2191.1	3300.5	3300.5	2191.1	802.0	258.2	49.9	18.1	6.4	1.4
-10		6.4	18.1	49.9	258.2	802.0	2191.1	3300.5	3300.5	2191.1	802.0	258.2	49.9	18.1	6.4	
-20	1.2	5.8	17.0	38.7	191.9	554.6	1373.6	2254.8	2254.8	1373.6	554.6	191.9	38.7	17.0	5.8	1.2
-30		4.6	14.9	28.5	96.4	301.2	589.1	875.9	875.9	589.1	301.2	96.4	28.5	14.9	4.6	
-40	0.6	3.1	11.8	22.7	39.4	105.9	224.0	310.8	310.8	224.0	105.9	39.4	22.7	11.8	3.1	0.6
-50		1.7	7.4	16.9	26.2	36.4	52.3	69.0	69.0	52.3	36.4	26.2	16.9	7.4	1.7	
-60	0.2	0.8	3.3	9.0	16.6	23.4	28.3	31.1	31.1	28.3	23.4	16.6	9.0	3.3	0.8	0.2
-70		0.3	1.0	2.8	5.8	9.5	12.7	14.5	14.5	12.7	9.5	5.8	2.8	1.0	0.3	
-80																
-90	0.1	0.4		1.7		4.0		5.2		4.0		1.7		0.4		0.1

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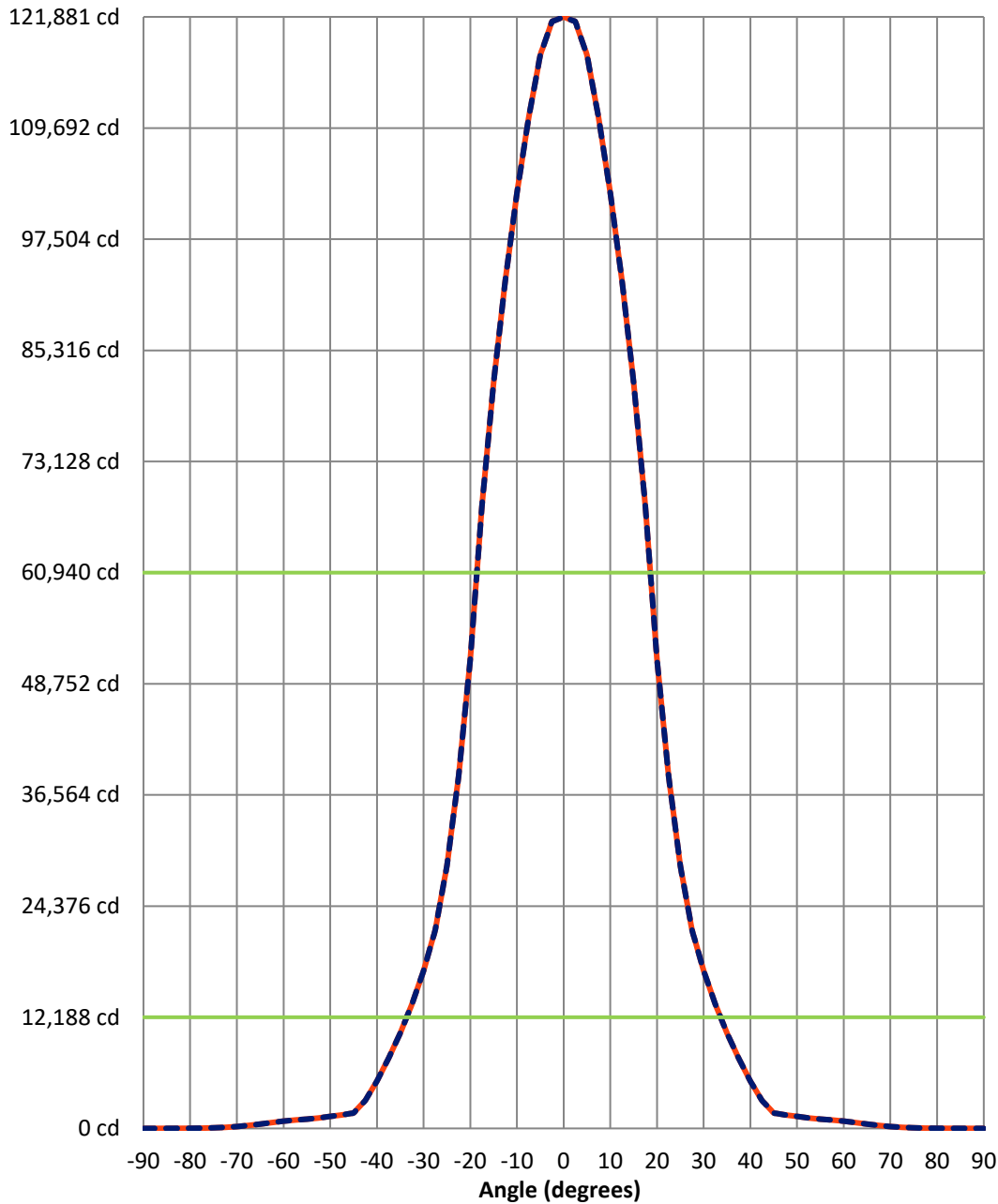
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 37.2°
V Angle: 37.2°
Lumens: 29301.8
Efficiency: 52.1%

Field:
H Angle: 67.2°
V Angle: 67.2°
Lumens: 49222.1
Efficiency: 87.5%

Spill:
Lumens: 7063.5
Efficiency: 12.5%

- 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	0.1	0.2	0.4	0.5	0.6	0.7	0.8	1.0	1.1	1.2
85°	0.0	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.4
82.5°	0.0	0.4	0.7	1.1	1.5	1.8	2.2	2.5	2.9	3.2	3.5
80°	0.0	0.5	1.0	1.5	1.9	2.4	2.9	3.4	3.8	4.3	4.7
77.5°	0.0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.3	6.1
75°	0.0	0.7	1.4	2.2	2.9	3.6	4.3	5.0	5.7	6.9	8.0
72.5°	0.0	0.8	1.7	2.5	3.4	4.2	5.0	6.0	7.3	8.6	9.9
70°	0.0	1.0	1.9	2.9	3.8	4.8	5.7	7.3	8.8	10.3	11.8
67.5°	0.0	1.1	2.1	3.2	4.3	5.3	6.9	8.6	10.3	12.0	13.7
65°	0.0	1.2	2.4	3.5	4.7	6.1	8.0	9.9	11.8	13.7	16.7
62.5°	0.0	1.3	2.6	3.9	5.2	7.0	9.1	11.2	13.3	16.1	22.5
60°	0.0	1.4	2.8	4.2	5.6	7.9	10.2	12.5	14.7	21.2	28.2
57.5°	0.0	1.5	3.0	4.5	6.3	8.8	11.2	13.7	18.5	26.2	39.1
55°	0.0	1.6	3.2	4.8	6.9	9.6	12.3	14.9	22.9	32.6	52.3
52.5°	0.0	1.7	3.4	5.1	7.6	10.4	13.2	18.3	27.1	44.2	65.2
50°	0.0	1.8	3.6	5.4	8.2	11.2	14.2	21.9	32.9	55.4	81.9
47.5°	0.0	1.9	3.8	5.7	8.9	12.0	15.4	25.3	42.6	66.3	98.7
45°	0.0	2.0	4.0	6.2	9.5	12.8	18.3	28.7	51.8	80.7	114.8
42.5°	0.0	2.1	4.1	6.6	10.0	13.5	21.0	34.5	60.7	94.6	139.7
40°	0.0	2.1	4.3	7.0	10.6	14.1	23.6	41.9	70.3	107.9	165.0
37.5°	0.0	2.2	4.4	7.4	11.1	14.8	26.1	49.0	81.6	123.1	189.2
35°	0.0	2.3	4.6	7.7	11.6	16.3	28.4	55.7	92.2	143.6	215.9
32.5°	0.0	2.4	4.7	8.1	12.0	18.1	31.6	62.0	102.2	162.9	246.9
30°	0.0	2.4	4.8	8.4	12.5	19.8	36.6	68.4	111.6	181.0	276.0
27.5°	0.0	2.5	5.0	8.7	12.9	21.4	41.3	76.0	122.6	197.9	303.1
25°	0.0	2.5	5.1	9.0	13.2	22.9	45.6	83.0	136.3	217.8	328.3
22.5°	0.0	2.6	5.2	9.2	13.6	24.2	49.5	89.4	148.8	238.2	355.8
20°	0.0	2.6	5.3	9.4	13.9	25.4	53.0	95.1	160.1	256.5	380.6
17.5°	0.0	2.7	5.3	9.6	14.1	26.5	56.1	100.2	170.1	272.9	402.7
15°	0.0	2.7	5.4	9.8	14.4	27.4	58.9	104.7	178.9	287.1	421.9
12.5°	0.0	2.7	5.5	10.0	14.5	28.2	61.2	108.4	186.3	299.2	438.4
10°	0.0	2.8	5.5	10.1	14.7	28.8	63.1	111.5	192.4	309.2	451.8
7.5°	0.0	2.8	5.6	10.2	14.8	29.3	64.6	114.0	197.2	317.0	462.4
5°	0.0	2.8	5.6	10.2	14.9	29.7	65.6	115.7	200.6	322.5	469.9
2.5°	0.0	2.8	5.6	10.3	15.0	29.9	66.3	116.8	202.6	325.9	474.5
0°	0.0	2.8	5.6	10.3	15.0	29.9	66.3	116.8	202.6	325.9	474.5
-2.5°	0.0	2.8	5.6	10.3	15.0	29.9	66.3	116.8	202.6	325.9	474.5
-5°	0.0	2.8	5.6	10.2	14.9	29.7	65.6	115.7	200.6	322.5	469.9
-7.5°	0.0	2.8	5.6	10.2	14.8	29.3	64.6	114.0	197.2	317.0	462.4
-10°	0.0	2.8	5.5	10.1	14.7	28.8	63.1	111.5	192.4	309.2	451.8
-12.5°	0.0	2.7	5.5	10.0	14.5	28.2	61.2	108.4	186.3	299.2	438.4
-15°	0.0	2.7	5.4	9.8	14.4	27.4	58.9	104.7	178.9	287.1	421.9
-17.5°	0.0	2.7	5.3	9.6	14.1	26.5	56.1	100.2	170.1	272.9	402.7
-20°	0.0	2.6	5.3	9.4	13.9	25.4	53.0	95.1	160.1	256.5	380.6



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 CATALOG NUMBER: EPH-LS-08-0320L-40-80-4S-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	2.6	5.2	9.2	13.6	24.2	49.5	89.4	148.8	238.2	355.8
-25°	0.0	2.5	5.1	9.0	13.2	22.9	45.6	83.0	136.3	217.8	328.3
-27.5°	0.0	2.5	5.0	8.7	12.9	21.4	41.3	76.0	122.6	197.9	303.1
-30°	0.0	2.4	4.8	8.4	12.5	19.8	36.6	68.4	111.6	181.0	276.0
-32.5°	0.0	2.4	4.7	8.1	12.0	18.1	31.6	62.0	102.2	162.9	246.9
-35°	0.0	2.3	4.6	7.7	11.6	16.3	28.4	55.7	92.2	143.6	215.9
-37.5°	0.0	2.2	4.4	7.4	11.1	14.8	26.1	49.0	81.6	123.1	189.2
-40°	0.0	2.1	4.3	7.0	10.6	14.1	23.6	41.9	70.3	107.9	165.0
-42.5°	0.0	2.1	4.1	6.6	10.0	13.5	21.0	34.5	60.7	94.6	139.7
-45°	0.0	2.0	4.0	6.2	9.5	12.8	18.3	28.7	51.8	80.7	114.8
-47.5°	0.0	1.9	3.8	5.7	8.9	12.0	15.4	25.3	42.6	66.3	98.7
-50°	0.0	1.8	3.6	5.4	8.2	11.2	14.2	21.9	32.9	55.4	81.9
-52.5°	0.0	1.7	3.4	5.1	7.6	10.4	13.2	18.3	27.1	44.2	65.2
-55°	0.0	1.6	3.2	4.8	6.9	9.6	12.3	14.9	22.9	32.6	52.3
-57.5°	0.0	1.5	3.0	4.5	6.3	8.8	11.2	13.7	18.5	26.2	39.1
-60°	0.0	1.4	2.8	4.2	5.6	7.9	10.2	12.5	14.7	21.2	28.2
-62.5°	0.0	1.3	2.6	3.9	5.2	7.0	9.1	11.2	13.3	16.1	22.5
-65°	0.0	1.2	2.4	3.5	4.7	6.1	8.0	9.9	11.8	13.7	16.7
-67.5°	0.0	1.1	2.1	3.2	4.3	5.3	6.9	8.6	10.3	12.0	13.7
-70°	0.0	1.0	1.9	2.9	3.8	4.8	5.7	7.3	8.8	10.3	11.8
-72.5°	0.0	0.8	1.7	2.5	3.4	4.2	5.0	6.0	7.3	8.6	9.9
-75°	0.0	0.7	1.4	2.2	2.9	3.6	4.3	5.0	5.7	6.9	8.0
-77.5°	0.0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.3	6.1
-80°	0.0	0.5	1.0	1.5	1.9	2.4	2.9	3.4	3.8	4.3	4.7
-82.5°	0.0	0.4	0.7	1.1	1.5	1.8	2.2	2.5	2.9	3.2	3.5
-85°	0.0	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.4
-87.5°	0.0	0.1	0.2	0.4	0.5	0.6	0.7	0.8	1.0	1.1	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



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.1	2.2
85°	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.1	4.3	4.4
82.5°	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.2	6.6	7.0	7.4
80°	5.2	5.6	6.3	6.9	7.6	8.2	8.9	9.5	10.0	10.6	11.1
77.5°	7.0	7.9	8.8	9.6	10.4	11.2	12.0	12.8	13.5	14.1	14.8
75°	9.1	10.2	11.2	12.3	13.2	14.2	15.4	18.3	21.0	23.6	26.1
72.5°	11.2	12.5	13.7	14.9	18.3	21.9	25.3	28.7	34.5	41.9	49.0
70°	13.3	14.7	18.5	22.9	27.1	32.9	42.6	51.8	60.7	70.3	81.6
67.5°	16.1	21.2	26.2	32.6	44.2	55.4	66.3	80.7	94.6	107.9	123.1
65°	22.5	28.2	39.1	52.3	65.2	81.9	98.7	114.8	139.7	165.0	189.2
62.5°	28.9	42.4	57.2	73.7	93.3	112.4	140.4	170.8	200.0	238.7	277.0
60°	42.4	58.9	78.3	100.2	124.7	160.1	194.4	238.2	284.0	328.3	378.9
57.5°	57.2	78.3	102.5	132.6	172.0	213.4	266.8	318.6	376.9	434.6	491.3
55°	73.7	100.2	132.6	176.0	224.9	284.2	344.8	412.1	477.1	546.6	613.2
52.5°	93.3	124.7	172.0	224.9	290.0	358.9	433.4	508.9	586.6	660.7	729.7
50°	112.4	160.1	213.4	284.2	358.9	440.5	525.0	610.9	692.0	769.2	833.3
47.5°	140.4	194.4	266.8	344.8	433.4	525.0	619.0	707.8	793.1	857.9	918.5
45°	170.8	238.2	318.6	412.1	508.9	610.9	707.8	801.1	870.4	934.2	984.4
42.5°	200.0	284.0	376.9	477.1	586.6	692.0	793.1	870.4	939.1	994.3	1057.6
40°	238.7	328.3	434.6	546.6	660.7	769.2	857.9	934.2	994.3	1064.3	1139.4
37.5°	277.0	378.9	491.3	613.2	729.7	833.3	918.5	984.4	1057.6	1139.4	1249.8
35°	313.4	427.0	549.8	675.2	795.5	887.4	964.6	1037.4	1125.7	1239.9	1353.9
32.5°	352.0	472.5	605.1	733.0	844.6	935.3	1007.5	1098.4	1210.3	1335.8	1446.7
30°	390.8	519.7	656.5	787.3	889.6	973.1	1058.1	1161.6	1297.5	1419.0	1556.6
27.5°	427.0	564.1	703.2	829.4	929.8	1008.5	1108.8	1238.4	1373.5	1504.9	1672.0
25°	460.4	605.1	746.4	865.5	960.2	1049.2	1161.2	1310.0	1442.3	1606.3	2226.2
22.5°	492.7	642.6	785.9	898.5	988.1	1089.4	1222.5	1370.2	1516.2	1723.5	2858.7
20°	523.4	675.2	816.9	927.2	1013.5	1125.9	1278.3	1424.1	1596.2	2263.2	3654.4
17.5°	550.8	704.3	841.3	948.0	1042.2	1165.0	1327.5	1472.5	1668.1	2750.1	4474.8
15°	574.7	729.7	862.7	966.2	1068.6	1205.5	1366.8	1528.9	1919.5	3249.7	5206.1
12.5°	595.1	751.3	880.9	981.7	1091.1	1240.1	1400.5	1579.2	2261.2	3828.4	5947.4
10°	611.8	769.2	896.0	994.5	1109.7	1268.7	1428.3	1620.8	2544.6	4309.3	6564.7
7.5°	624.9	783.1	907.7	1004.5	1124.3	1291.2	1450.2	1653.5	2767.5	4688.0	7051.9
5°	634.3	793.1	916.1	1011.7	1134.7	1307.3	1465.9	1677.0	2928.0	4961.2	7403.8
2.5°	639.9	799.1	921.2	1016.1	1141.0	1317.0	1475.3	1691.2	3024.9	5126.2	7616.6
0°	641.8	801.1	922.9	1017.5	1143.1	1320.2	1478.5	1695.9	3057.3	5181.4	7687.8
-2.5°	639.9	799.1	921.2	1016.1	1141.0	1317.0	1475.3	1691.2	3024.9	5126.2	7616.6
-5°	634.3	793.1	916.1	1011.7	1134.7	1307.3	1465.9	1677.0	2928.0	4961.2	7403.8
-7.5°	624.9	783.1	907.7	1004.5	1124.3	1291.2	1450.2	1653.5	2767.5	4688.0	7051.9
-10°	611.8	769.2	896.0	994.5	1109.7	1268.7	1428.3	1620.8	2544.6	4309.3	6564.7
-12.5°	595.1	751.3	880.9	981.7	1091.1	1240.1	1400.5	1579.2	2261.2	3828.4	5947.4
-15°	574.7	729.7	862.7	966.2	1068.6	1205.5	1366.8	1528.9	1919.5	3249.7	5206.1
-17.5°	550.8	704.3	841.3	948.0	1042.2	1165.0	1327.5	1472.5	1668.1	2750.1	4474.8
-20°	523.4	675.2	816.9	927.2	1013.5	1125.9	1278.3	1424.1	1596.2	2263.2	3654.4



REPORT NUMBER: P701400 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-4S-HEG-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	492.7	642.6	785.9	898.5	988.1	1089.4	1222.5	1370.2	1516.2	1723.5	2858.7
-25°	460.4	605.1	746.4	865.5	960.2	1049.2	1161.2	1310.0	1442.3	1606.3	2226.2
-27.5°	427.0	564.1	703.2	829.4	929.8	1008.5	1108.8	1238.4	1373.5	1504.9	1672.0
-30°	390.8	519.7	656.5	787.3	889.6	973.1	1058.1	1161.6	1297.5	1419.0	1556.6
-32.5°	352.0	472.5	605.1	733.0	844.6	935.3	1007.5	1098.4	1210.3	1335.8	1446.7
-35°	313.4	427.0	549.8	675.2	795.5	887.4	964.6	1037.4	1125.7	1239.9	1353.9
-37.5°	277.0	378.9	491.3	613.2	729.7	833.3	918.5	984.4	1057.6	1139.4	1249.8
-40°	238.7	328.3	434.6	546.6	660.7	769.2	857.9	934.2	994.3	1064.3	1139.4
-42.5°	200.0	284.0	376.9	477.1	586.6	692.0	793.1	870.4	939.1	994.3	1057.6
-45°	170.8	238.2	318.6	412.1	508.9	610.9	707.8	801.1	870.4	934.2	984.4
-47.5°	140.4	194.4	266.8	344.8	433.4	525.0	619.0	707.8	793.1	857.9	918.5
-50°	112.4	160.1	213.4	284.2	358.9	440.5	525.0	610.9	692.0	769.2	833.3
-52.5°	93.3	124.7	172.0	224.9	290.0	358.9	433.4	508.9	586.6	660.7	729.7
-55°	73.7	100.2	132.6	176.0	224.9	284.2	344.8	412.1	477.1	546.6	613.2
-57.5°	57.2	78.3	102.5	132.6	172.0	213.4	266.8	318.6	376.9	434.6	491.3
-60°	42.4	58.9	78.3	100.2	124.7	160.1	194.4	238.2	284.0	328.3	378.9
-62.5°	28.9	42.4	57.2	73.7	93.3	112.4	140.4	170.8	200.0	238.7	277.0
-65°	22.5	28.2	39.1	52.3	65.2	81.9	98.7	114.8	139.7	165.0	189.2
-67.5°	16.1	21.2	26.2	32.6	44.2	55.4	66.3	80.7	94.6	107.9	123.1
-70°	13.3	14.7	18.5	22.9	27.1	32.9	42.6	51.8	60.7	70.3	81.6
-72.5°	11.2	12.5	13.7	14.9	18.3	21.9	25.3	28.7	34.5	41.9	49.0
-75°	9.1	10.2	11.2	12.3	13.2	14.2	15.4	18.3	21.0	23.6	26.1
-77.5°	7.0	7.9	8.8	9.6	10.4	11.2	12.0	12.8	13.5	14.1	14.8
-80°	5.2	5.6	6.3	6.9	7.6	8.2	8.9	9.5	10.0	10.6	11.1
-82.5°	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.2	6.6	7.0	7.4
-85°	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.1	4.3	4.4
-87.5°	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.1	2.2
-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: P701400 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-4S-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°	2.3	2.4	2.4	2.5	2.5	2.6	2.6	2.7	2.7	2.7	2.8
85°	4.6	4.7	4.8	5.0	5.1	5.2	5.3	5.3	5.4	5.5	5.5
82.5°	7.7	8.1	8.4	8.7	9.0	9.2	9.4	9.6	9.8	10.0	10.1
80°	11.6	12.0	12.5	12.9	13.2	13.6	13.9	14.1	14.4	14.5	14.7
77.5°	16.3	18.1	19.8	21.4	22.9	24.2	25.4	26.5	27.4	28.2	28.8
75°	28.4	31.6	36.6	41.3	45.6	49.5	53.0	56.1	58.9	61.2	63.1
72.5°	55.7	62.0	68.4	76.0	83.0	89.4	95.1	100.2	104.7	108.4	111.5
70°	92.2	102.2	111.6	122.6	136.3	148.8	160.1	170.1	178.9	186.3	192.4
67.5°	143.6	162.9	181.0	197.9	217.8	238.2	256.5	272.9	287.1	299.2	309.2
65°	215.9	246.9	276.0	303.1	328.3	355.8	380.6	402.7	421.9	438.4	451.8
62.5°	313.4	352.0	390.8	427.0	460.4	492.7	523.4	550.8	574.7	595.1	611.8
60°	427.0	472.5	519.7	564.1	605.1	642.6	675.2	704.3	729.7	751.3	769.2
57.5°	549.8	605.1	656.5	703.2	746.4	785.9	816.9	841.3	862.7	880.9	896.0
55°	675.2	733.0	787.3	829.4	865.5	898.5	927.2	948.0	966.2	981.7	994.5
52.5°	795.5	844.6	889.6	929.8	960.2	988.1	1013.5	1042.2	1068.6	1091.1	1109.7
50°	887.4	935.3	973.1	1008.5	1049.2	1089.4	1125.9	1165.0	1205.5	1240.1	1268.7
47.5°	964.6	1007.5	1058.1	1108.8	1161.2	1222.5	1278.3	1327.5	1366.8	1400.5	1428.3
45°	1037.4	1098.4	1161.6	1238.4	1310.0	1370.2	1424.1	1472.5	1528.9	1579.2	1620.8
42.5°	1125.7	1210.3	1297.5	1373.5	1442.3	1516.2	1596.2	1668.1	1919.5	2261.2	2544.6
40°	1239.9	1335.8	1419.0	1504.9	1606.3	1723.5	2263.2	2750.1	3249.7	3828.4	4309.3
37.5°	1353.9	1446.7	1556.6	1672.0	2226.2	2858.7	3654.4	4474.8	5206.1	5947.4	6564.7
35°	1456.0	1582.7	1797.5	2568.2	3428.2	4487.0	5513.8	6559.1	7488.8	8355.6	9096.1
32.5°	1582.7	1881.9	2741.3	3843.9	5055.0	6371.1	7610.1	8845.1	9954.7	10987.5	11912.7
30°	1797.5	2741.3	3983.7	5372.1	6895.9	8394.4	9861.4	11313.3	12691.4	13940.7	15116.9
27.5°	2568.2	3843.9	5372.1	7072.6	8797.0	10491.0	12296.6	14013.3	15753.2	17279.3	18850.1
25°	3428.2	5055.0	6895.9	8797.0	10732.1	12797.7	14920.8	17006.4	19250.6	21285.2	23722.7
22.5°	4487.0	6371.1	8394.4	10491.0	12797.7	15227.6	17727.0	20474.2	23672.7	27171.6	30700.0
20°	5513.8	7610.1	9861.4	12296.6	14920.8	17727.0	20889.2	25042.7	29532.8	34882.2	39785.4
17.5°	6559.1	8845.1	11313.3	14013.3	17006.4	20474.2	25042.7	30555.3	37050.5	44292.1	51041.2
15°	7488.8	9954.7	12691.4	15753.2	19250.6	23672.7	29532.8	37050.5	45837.9	55243.8	65105.5
12.5°	8355.6	10987.5	13940.7	17279.3	21285.2	27171.6	34882.2	44292.1	55243.8	67500.7	76570.0
10°	9096.1	11912.7	15116.9	18850.1	23722.7	30700.0	39785.4	51041.2	65105.5	76570.0	85914.0
7.5°	9681.8	12646.5	16053.1	20106.6	25902.7	34072.0	44731.4	58198.0	72378.2	83865.7	93052.7
5°	10105.6	13178.6	16733.9	21023.6	27500.6	36558.0	48406.0	63663.2	77462.0	88868.9	98144.1
2.5°	10362.2	13501.3	17147.4	21582.0	28476.7	38083.1	50673.4	67063.3	80662.8	91938.9	101405.4
0°	10448.1	13609.4	17286.1	21769.5	28805.1	38597.4	51440.4	68218.6	81757.8	92956.9	102558.4
-2.5°	10362.2	13501.3	17147.4	21582.0	28476.7	38083.1	50673.4	67063.3	80662.8	91938.9	101405.4
-5°	10105.6	13178.6	16733.9	21023.6	27500.6	36558.0	48406.0	63663.2	77462.0	88868.9	98144.1
-7.5°	9681.8	12646.5	16053.1	20106.6	25902.7	34072.0	44731.4	58198.0	72378.2	83865.7	93052.7
-10°	9096.1	11912.7	15116.9	18850.1	23722.7	30700.0	39785.4	51041.2	65105.5	76570.0	85914.0
-12.5°	8355.6	10987.5	13940.7	17279.3	21285.2	27171.6	34882.2	44292.1	55243.8	67500.7	76570.0
-15°	7488.8	9954.7	12691.4	15753.2	19250.6	23672.7	29532.8	37050.5	45837.9	55243.8	65105.5
-17.5°	6559.1	8845.1	11313.3	14013.3	17006.4	20474.2	25042.7	30555.3	37050.5	44292.1	51041.2
-20°	5513.8	7610.1	9861.4	12296.6	14920.8	17727.0	20889.2	25042.7	29532.8	34882.2	39785.4



REPORT NUMBER: P701400 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	4487.0	6371.1	8394.4	10491.0	12797.7	15227.6	17727.0	20474.2	23672.7	27171.6	30700.0
-25°	3428.2	5055.0	6895.9	8797.0	10732.1	12797.7	14920.8	17006.4	19250.6	21285.2	23722.7
-27.5°	2568.2	3843.9	5372.1	7072.6	8797.0	10491.0	12296.6	14013.3	15753.2	17279.3	18850.1
-30°	1797.5	2741.3	3983.7	5372.1	6895.9	8394.4	9861.4	11313.3	12691.4	13940.7	15116.9
-32.5°	1582.7	1881.9	2741.3	3843.9	5055.0	6371.1	7610.1	8845.1	9954.7	10987.5	11912.7
-35°	1456.0	1582.7	1797.5	2568.2	3428.2	4487.0	5513.8	6559.1	7488.8	8355.6	9096.1
-37.5°	1353.9	1446.7	1556.6	1672.0	2226.2	2858.7	3654.4	4474.8	5206.1	5947.4	6564.7
-40°	1239.9	1335.8	1419.0	1504.9	1606.3	1723.5	2263.2	2750.1	3249.7	3828.4	4309.3
-42.5°	1125.7	1210.3	1297.5	1373.5	1442.3	1516.2	1596.2	1668.1	1919.5	2261.2	2544.6
-45°	1037.4	1098.4	1161.6	1238.4	1310.0	1370.2	1424.1	1472.5	1528.9	1579.2	1620.8
-47.5°	964.6	1007.5	1058.1	1108.8	1161.2	1222.5	1278.3	1327.5	1366.8	1400.5	1428.3
-50°	887.4	935.3	973.1	1008.5	1049.2	1089.4	1125.9	1165.0	1205.5	1240.1	1268.7
-52.5°	795.5	844.6	889.6	929.8	960.2	988.1	1013.5	1042.2	1068.6	1091.1	1109.7
-55°	675.2	733.0	787.3	829.4	865.5	898.5	927.2	948.0	966.2	981.7	994.5
-57.5°	549.8	605.1	656.5	703.2	746.4	785.9	816.9	841.3	862.7	880.9	896.0
-60°	427.0	472.5	519.7	564.1	605.1	642.6	675.2	704.3	729.7	751.3	769.2
-62.5°	313.4	352.0	390.8	427.0	460.4	492.7	523.4	550.8	574.7	595.1	611.8
-65°	215.9	246.9	276.0	303.1	328.3	355.8	380.6	402.7	421.9	438.4	451.8
-67.5°	143.6	162.9	181.0	197.9	217.8	238.2	256.5	272.9	287.1	299.2	309.2
-70°	92.2	102.2	111.6	122.6	136.3	148.8	160.1	170.1	178.9	186.3	192.4
-72.5°	55.7	62.0	68.4	76.0	83.0	89.4	95.1	100.2	104.7	108.4	111.5
-75°	28.4	31.6	36.6	41.3	45.6	49.5	53.0	56.1	58.9	61.2	63.1
-77.5°	16.3	18.1	19.8	21.4	22.9	24.2	25.4	26.5	27.4	28.2	28.8
-80°	11.6	12.0	12.5	12.9	13.2	13.6	13.9	14.1	14.4	14.5	14.7
-82.5°	7.7	8.1	8.4	8.7	9.0	9.2	9.4	9.6	9.8	10.0	10.1
-85°	4.6	4.7	4.8	5.0	5.1	5.2	5.3	5.3	5.4	5.5	5.5
-87.5°	2.3	2.4	2.4	2.5	2.5	2.6	2.6	2.7	2.7	2.7	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: P701400 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-4S-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°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.7
85°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.5	5.5	5.4	5.3
82.5°	10.2	10.2	10.3	10.3	10.3	10.2	10.2	10.1	10.0	9.8	9.6
80°	14.8	14.9	15.0	15.0	15.0	14.9	14.8	14.7	14.5	14.4	14.1
77.5°	29.3	29.7	29.9	30.0	29.9	29.7	29.3	28.8	28.2	27.4	26.5
75°	64.6	65.6	66.3	66.5	66.3	65.6	64.6	63.1	61.2	58.9	56.1
72.5°	114.0	115.7	116.8	117.1	116.8	115.7	114.0	111.5	108.4	104.7	100.2
70°	197.2	200.6	202.6	203.3	202.6	200.6	197.2	192.4	186.3	178.9	170.1
67.5°	317.0	322.5	325.9	327.0	325.9	322.5	317.0	309.2	299.2	287.1	272.9
65°	462.4	469.9	474.5	476.0	474.5	469.9	462.4	451.8	438.4	421.9	402.7
62.5°	624.9	634.3	639.9	641.8	639.9	634.3	624.9	611.8	595.1	574.7	550.8
60°	783.1	793.1	799.1	801.1	799.1	793.1	783.1	769.2	751.3	729.7	704.3
57.5°	907.7	916.1	921.2	922.9	921.2	916.1	907.7	896.0	880.9	862.7	841.3
55°	1004.5	1011.7	1016.1	1017.5	1016.1	1011.7	1004.5	994.5	981.7	966.2	948.0
52.5°	1124.3	1134.7	1141.0	1143.1	1141.0	1134.7	1124.3	1109.7	1091.1	1068.6	1042.2
50°	1291.2	1307.3	1317.0	1320.2	1317.0	1307.3	1291.2	1268.7	1240.1	1205.5	1165.0
47.5°	1450.2	1465.9	1475.3	1478.5	1475.3	1465.9	1450.2	1428.3	1400.5	1366.8	1327.5
45°	1653.5	1677.0	1691.2	1695.9	1691.2	1677.0	1653.5	1620.8	1579.2	1528.9	1472.5
42.5°	2767.5	2928.0	3024.9	3057.3	3024.9	2928.0	2767.5	2544.6	2261.2	1919.5	1668.1
40°	4688.0	4961.2	5126.2	5181.4	5126.2	4961.2	4688.0	4309.3	3828.4	3249.7	2750.1
37.5°	7051.9	7403.8	7616.6	7687.8	7616.6	7403.8	7051.9	6564.7	5947.4	5206.1	4474.8
35°	9681.8	10105.6	10362.2	10448.1	10362.2	10105.6	9681.8	9096.1	8355.6	7488.8	6559.1
32.5°	12646.5	13178.6	13501.3	13609.4	13501.3	13178.6	12646.5	11912.7	10987.5	9954.7	8845.1
30°	16053.1	16733.9	17147.4	17286.1	17147.4	16733.9	16053.1	15116.9	13940.7	12691.4	11313.3
27.5°	20106.6	21023.6	21582.0	21769.5	21582.0	21023.6	20106.6	18850.1	17279.3	15753.2	14013.3
25°	25902.7	27500.6	28476.7	28805.1	28476.7	27500.6	25902.7	23722.7	21285.2	19250.6	17006.4
22.5°	34072.0	36558.0	38083.1	38597.4	38083.1	36558.0	34072.0	30700.0	27171.6	23672.7	20474.2
20°	44731.4	48406.0	50673.4	51440.4	50673.4	48406.0	44731.4	39785.4	34882.2	29532.8	25042.7
17.5°	58198.0	63663.2	67063.3	68218.6	67063.3	63663.2	58198.0	51041.2	44292.1	37050.5	30555.3
15°	72378.2	77462.0	80662.8	81757.8	80662.8	77462.0	72378.2	65105.5	55243.8	45837.9	37050.5
12.5°	83865.7	88868.9	91938.9	92956.9	91938.9	88868.9	83865.7	76570.0	67500.7	55243.8	44292.1
10°	93052.7	98144.1	101405.4	102558.4	101405.4	98144.1	93052.7	85914.0	76570.0	65105.5	51041.2
7.5°	100320.3	106067.0	109547.7	110786.4	109547.7	106067.0	100320.3	93052.7	83865.7	72378.2	58198.0
5°	106067.0	112117.2	116237.0	117686.7	116237.0	112117.2	106067.0	98144.1	88868.9	77462.0	63663.2
2.5°	109547.7	116237.0	120216.7	121360.1	120216.7	116237.0	109547.7	101405.4	91938.9	80662.8	67063.3
0°	110786.4	117686.7	121360.1	121880.5	121360.1	117686.7	110786.4	102558.4	92956.9	81757.8	68218.6
-2.5°	109547.7	116237.0	120216.7	121360.1	120216.7	116237.0	109547.7	101405.4	91938.9	80662.8	67063.3
-5°	106067.0	112117.2	116237.0	117686.7	116237.0	112117.2	106067.0	98144.1	88868.9	77462.0	63663.2
-7.5°	100320.3	106067.0	109547.7	110786.4	109547.7	106067.0	100320.3	93052.7	83865.7	72378.2	58198.0
-10°	93052.7	98144.1	101405.4	102558.4	101405.4	98144.1	93052.7	85914.0	76570.0	65105.5	51041.2
-12.5°	83865.7	88868.9	91938.9	92956.9	91938.9	88868.9	83865.7	76570.0	67500.7	55243.8	44292.1
-15°	72378.2	77462.0	80662.8	81757.8	80662.8	77462.0	72378.2	65105.5	55243.8	45837.9	37050.5
-17.5°	58198.0	63663.2	67063.3	68218.6	67063.3	63663.2	58198.0	51041.2	44292.1	37050.5	30555.3
-20°	44731.4	48406.0	50673.4	51440.4	50673.4	48406.0	44731.4	39785.4	34882.2	29532.8	25042.7



REPORT NUMBER: P701400 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-4S-HEG-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	34072.0	36558.0	38083.1	38597.4	38083.1	36558.0	34072.0	30700.0	27171.6	23672.7	20474.2
-25°	25902.7	27500.6	28476.7	28805.1	28476.7	27500.6	25902.7	23722.7	21285.2	19250.6	17006.4
-27.5°	20106.6	21023.6	21582.0	21769.5	21582.0	21023.6	20106.6	18850.1	17279.3	15753.2	14013.3
-30°	16053.1	16733.9	17147.4	17286.1	17147.4	16733.9	16053.1	15116.9	13940.7	12691.4	11313.3
-32.5°	12646.5	13178.6	13501.3	13609.4	13501.3	13178.6	12646.5	11912.7	10987.5	9954.7	8845.1
-35°	9681.8	10105.6	10362.2	10448.1	10362.2	10105.6	9681.8	9096.1	8355.6	7488.8	6559.1
-37.5°	7051.9	7403.8	7616.6	7687.8	7616.6	7403.8	7051.9	6564.7	5947.4	5206.1	4474.8
-40°	4688.0	4961.2	5126.2	5181.4	5126.2	4961.2	4688.0	4309.3	3828.4	3249.7	2750.1
-42.5°	2767.5	2928.0	3024.9	3057.3	3024.9	2928.0	2767.5	2544.6	2261.2	1919.5	1668.1
-45°	1653.5	1677.0	1691.2	1695.9	1691.2	1677.0	1653.5	1620.8	1579.2	1528.9	1472.5
-47.5°	1450.2	1465.9	1475.3	1478.5	1475.3	1465.9	1450.2	1428.3	1400.5	1366.8	1327.5
-50°	1291.2	1307.3	1317.0	1320.2	1317.0	1307.3	1291.2	1268.7	1240.1	1205.5	1165.0
-52.5°	1124.3	1134.7	1141.0	1143.1	1141.0	1134.7	1124.3	1109.7	1091.1	1068.6	1042.2
-55°	1004.5	1011.7	1016.1	1017.5	1016.1	1011.7	1004.5	994.5	981.7	966.2	948.0
-57.5°	907.7	916.1	921.2	922.9	921.2	916.1	907.7	896.0	880.9	862.7	841.3
-60°	783.1	793.1	799.1	801.1	799.1	793.1	783.1	769.2	751.3	729.7	704.3
-62.5°	624.9	634.3	639.9	641.8	639.9	634.3	624.9	611.8	595.1	574.7	550.8
-65°	462.4	469.9	474.5	476.0	474.5	469.9	462.4	451.8	438.4	421.9	402.7
-67.5°	317.0	322.5	325.9	327.0	325.9	322.5	317.0	309.2	299.2	287.1	272.9
-70°	197.2	200.6	202.6	203.3	202.6	200.6	197.2	192.4	186.3	178.9	170.1
-72.5°	114.0	115.7	116.8	117.1	116.8	115.7	114.0	111.5	108.4	104.7	100.2
-75°	64.6	65.6	66.3	66.5	66.3	65.6	64.6	63.1	61.2	58.9	56.1
-77.5°	29.3	29.7	29.9	30.0	29.9	29.7	29.3	28.8	28.2	27.4	26.5
-80°	14.8	14.9	15.0	15.0	15.0	14.9	14.8	14.7	14.5	14.4	14.1
-82.5°	10.2	10.2	10.3	10.3	10.3	10.2	10.2	10.1	10.0	9.8	9.6
-85°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.5	5.5	5.4	5.3
-87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.7
-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: P701400 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
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°	2.6	2.6	2.5	2.5	2.4	2.4	2.3	2.2	2.1	2.1	2.0
85°	5.3	5.2	5.1	5.0	4.8	4.7	4.6	4.4	4.3	4.1	4.0
82.5°	9.4	9.2	9.0	8.7	8.4	8.1	7.7	7.4	7.0	6.6	6.2
80°	13.9	13.6	13.2	12.9	12.5	12.0	11.6	11.1	10.6	10.0	9.5
77.5°	25.4	24.2	22.9	21.4	19.8	18.1	16.3	14.8	14.1	13.5	12.8
75°	53.0	49.5	45.6	41.3	36.6	31.6	28.4	26.1	23.6	21.0	18.3
72.5°	95.1	89.4	83.0	76.0	68.4	62.0	55.7	49.0	41.9	34.5	28.7
70°	160.1	148.8	136.3	122.6	111.6	102.2	92.2	81.6	70.3	60.7	51.8
67.5°	256.5	238.2	217.8	197.9	181.0	162.9	143.6	123.1	107.9	94.6	80.7
65°	380.6	355.8	328.3	303.1	276.0	246.9	215.9	189.2	165.0	139.7	114.8
62.5°	523.4	492.7	460.4	427.0	390.8	352.0	313.4	277.0	238.7	200.0	170.8
60°	675.2	642.6	605.1	564.1	519.7	472.5	427.0	378.9	328.3	284.0	238.2
57.5°	816.9	785.9	746.4	703.2	656.5	605.1	549.8	491.3	434.6	376.9	318.6
55°	927.2	898.5	865.5	829.4	787.3	733.0	675.2	613.2	546.6	477.1	412.1
52.5°	1013.5	988.1	960.2	929.8	889.6	844.6	795.5	729.7	660.7	586.6	508.9
50°	1125.9	1089.4	1049.2	1008.5	973.1	935.3	887.4	833.3	769.2	692.0	610.9
47.5°	1278.3	1222.5	1161.2	1108.8	1058.1	1007.5	964.6	918.5	857.9	793.1	707.8
45°	1424.1	1370.2	1310.0	1238.4	1161.6	1098.4	1037.4	984.4	934.2	870.4	801.1
42.5°	1596.2	1516.2	1442.3	1373.5	1297.5	1210.3	1125.7	1057.6	994.3	939.1	870.4
40°	2263.2	1723.5	1606.3	1504.9	1419.0	1335.8	1239.9	1139.4	1064.3	994.3	934.2
37.5°	3654.4	2858.7	2226.2	1672.0	1556.6	1446.7	1353.9	1249.8	1139.4	1057.6	984.4
35°	5513.8	4487.0	3428.2	2568.2	1797.5	1582.7	1456.0	1353.9	1239.9	1125.7	1037.4
32.5°	7610.1	6371.1	5055.0	3843.9	2741.3	1881.9	1582.7	1446.7	1335.8	1210.3	1098.4
30°	9861.4	8394.4	6895.9	5372.1	3983.7	2741.3	1797.5	1556.6	1419.0	1297.5	1161.6
27.5°	12296.6	10491.0	8797.0	7072.6	5372.1	3843.9	2568.2	1672.0	1504.9	1373.5	1238.4
25°	14920.8	12797.7	10732.1	8797.0	6895.9	5055.0	3428.2	2226.2	1606.3	1442.3	1310.0
22.5°	17727.0	15227.6	12797.7	10491.0	8394.4	6371.1	4487.0	2858.7	1723.5	1516.2	1370.2
20°	20889.2	17727.0	14920.8	12296.6	9861.4	7610.1	5513.8	3654.4	2263.2	1596.2	1424.1
17.5°	25042.7	20474.2	17006.4	14013.3	11313.3	8845.1	6559.1	4474.8	2750.1	1668.1	1472.5
15°	29532.8	23672.7	19250.6	15753.2	12691.4	9954.7	7488.8	5206.1	3249.7	1919.5	1528.9
12.5°	34882.2	27171.6	21285.2	17279.3	13940.7	10987.5	8355.6	5947.4	3828.4	2261.2	1579.2
10°	39785.4	30700.0	23722.7	18850.1	15116.9	11912.7	9096.1	6564.7	4309.3	2544.6	1620.8
7.5°	44731.4	34072.0	25902.7	20106.6	16053.1	12646.5	9681.8	7051.9	4688.0	2767.5	1653.5
5°	48406.0	36558.0	27500.6	21023.6	16733.9	13178.6	10105.6	7403.8	4961.2	2928.0	1677.0
2.5°	50673.4	38083.1	28476.7	21582.0	17147.4	13501.3	10362.2	7616.6	5126.2	3024.9	1691.2
0°	51440.4	38597.4	28805.1	21769.5	17286.1	13609.4	10448.1	7687.8	5181.4	3057.3	1695.9
-2.5°	50673.4	38083.1	28476.7	21582.0	17147.4	13501.3	10362.2	7616.6	5126.2	3024.9	1691.2
-5°	48406.0	36558.0	27500.6	21023.6	16733.9	13178.6	10105.6	7403.8	4961.2	2928.0	1677.0
-7.5°	44731.4	34072.0	25902.7	20106.6	16053.1	12646.5	9681.8	7051.9	4688.0	2767.5	1653.5
-10°	39785.4	30700.0	23722.7	18850.1	15116.9	11912.7	9096.1	6564.7	4309.3	2544.6	1620.8
-12.5°	34882.2	27171.6	21285.2	17279.3	13940.7	10987.5	8355.6	5947.4	3828.4	2261.2	1579.2
-15°	29532.8	23672.7	19250.6	15753.2	12691.4	9954.7	7488.8	5206.1	3249.7	1919.5	1528.9
-17.5°	25042.7	20474.2	17006.4	14013.3	11313.3	8845.1	6559.1	4474.8	2750.1	1668.1	1472.5
-20°	20889.2	17727.0	14920.8	12296.6	9861.4	7610.1	5513.8	3654.4	2263.2	1596.2	1424.1



REPORT NUMBER: P701400 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-4S-HEG-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	17727.0	15227.6	12797.7	10491.0	8394.4	6371.1	4487.0	2858.7	1723.5	1516.2	1370.2
-25°	14920.8	12797.7	10732.1	8797.0	6895.9	5055.0	3428.2	2226.2	1606.3	1442.3	1310.0
-27.5°	12296.6	10491.0	8797.0	7072.6	5372.1	3843.9	2568.2	1672.0	1504.9	1373.5	1238.4
-30°	9861.4	8394.4	6895.9	5372.1	3983.7	2741.3	1797.5	1556.6	1419.0	1297.5	1161.6
-32.5°	7610.1	6371.1	5055.0	3843.9	2741.3	1881.9	1582.7	1446.7	1335.8	1210.3	1098.4
-35°	5513.8	4487.0	3428.2	2568.2	1797.5	1582.7	1456.0	1353.9	1239.9	1125.7	1037.4
-37.5°	3654.4	2858.7	2226.2	1672.0	1556.6	1446.7	1353.9	1249.8	1139.4	1057.6	984.4
-40°	2263.2	1723.5	1606.3	1504.9	1419.0	1335.8	1239.9	1139.4	1064.3	994.3	934.2
-42.5°	1596.2	1516.2	1442.3	1373.5	1297.5	1210.3	1125.7	1057.6	994.3	939.1	870.4
-45°	1424.1	1370.2	1310.0	1238.4	1161.6	1098.4	1037.4	984.4	934.2	870.4	801.1
-47.5°	1278.3	1222.5	1161.2	1108.8	1058.1	1007.5	964.6	918.5	857.9	793.1	707.8
-50°	1125.9	1089.4	1049.2	1008.5	973.1	935.3	887.4	833.3	769.2	692.0	610.9
-52.5°	1013.5	988.1	960.2	929.8	889.6	844.6	795.5	729.7	660.7	586.6	508.9
-55°	927.2	898.5	865.5	829.4	787.3	733.0	675.2	613.2	546.6	477.1	412.1
-57.5°	816.9	785.9	746.4	703.2	656.5	605.1	549.8	491.3	434.6	376.9	318.6
-60°	675.2	642.6	605.1	564.1	519.7	472.5	427.0	378.9	328.3	284.0	238.2
-62.5°	523.4	492.7	460.4	427.0	390.8	352.0	313.4	277.0	238.7	200.0	170.8
-65°	380.6	355.8	328.3	303.1	276.0	246.9	215.9	189.2	165.0	139.7	114.8
-67.5°	256.5	238.2	217.8	197.9	181.0	162.9	143.6	123.1	107.9	94.6	80.7
-70°	160.1	148.8	136.3	122.6	111.6	102.2	92.2	81.6	70.3	60.7	51.8
-72.5°	95.1	89.4	83.0	76.0	68.4	62.0	55.7	49.0	41.9	34.5	28.7
-75°	53.0	49.5	45.6	41.3	36.6	31.6	28.4	26.1	23.6	21.0	18.3
-77.5°	25.4	24.2	22.9	21.4	19.8	18.1	16.3	14.8	14.1	13.5	12.8
-80°	13.9	13.6	13.2	12.9	12.5	12.0	11.6	11.1	10.6	10.0	9.5
-82.5°	9.4	9.2	9.0	8.7	8.4	8.1	7.7	7.4	7.0	6.6	6.2
-85°	5.3	5.2	5.1	5.0	4.8	4.7	4.6	4.4	4.3	4.1	4.0
-87.5°	2.6	2.6	2.5	2.5	2.4	2.4	2.3	2.2	2.1	2.1	2.0
-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: P701400 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-4S-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°	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.8
85°	3.8	3.6	3.4	3.2	3.0	2.8	2.6	2.4	2.1	1.9	1.7
82.5°	5.7	5.4	5.1	4.8	4.5	4.2	3.9	3.5	3.2	2.9	2.5
80°	8.9	8.2	7.6	6.9	6.3	5.6	5.2	4.7	4.3	3.8	3.4
77.5°	12.0	11.2	10.4	9.6	8.8	7.9	7.0	6.1	5.3	4.8	4.2
75°	15.4	14.2	13.2	12.3	11.2	10.2	9.1	8.0	6.9	5.7	5.0
72.5°	25.3	21.9	18.3	14.9	13.7	12.5	11.2	9.9	8.6	7.3	6.0
70°	42.6	32.9	27.1	22.9	18.5	14.7	13.3	11.8	10.3	8.8	7.3
67.5°	66.3	55.4	44.2	32.6	26.2	21.2	16.1	13.7	12.0	10.3	8.6
65°	98.7	81.9	65.2	52.3	39.1	28.2	22.5	16.7	13.7	11.8	9.9
62.5°	140.4	112.4	93.3	73.7	57.2	42.4	28.9	22.5	16.1	13.3	11.2
60°	194.4	160.1	124.7	100.2	78.3	58.9	42.4	28.2	21.2	14.7	12.5
57.5°	266.8	213.4	172.0	132.6	102.5	78.3	57.2	39.1	26.2	18.5	13.7
55°	344.8	284.2	224.9	176.0	132.6	100.2	73.7	52.3	32.6	22.9	14.9
52.5°	433.4	358.9	290.0	224.9	172.0	124.7	93.3	65.2	44.2	27.1	18.3
50°	525.0	440.5	358.9	284.2	213.4	160.1	112.4	81.9	55.4	32.9	21.9
47.5°	619.0	525.0	433.4	344.8	266.8	194.4	140.4	98.7	66.3	42.6	25.3
45°	707.8	610.9	508.9	412.1	318.6	238.2	170.8	114.8	80.7	51.8	28.7
42.5°	793.1	692.0	586.6	477.1	376.9	284.0	200.0	139.7	94.6	60.7	34.5
40°	857.9	769.2	660.7	546.6	434.6	328.3	238.7	165.0	107.9	70.3	41.9
37.5°	918.5	833.3	729.7	613.2	491.3	378.9	277.0	189.2	123.1	81.6	49.0
35°	964.6	887.4	795.5	675.2	549.8	427.0	313.4	215.9	143.6	92.2	55.7
32.5°	1007.5	935.3	844.6	733.0	605.1	472.5	352.0	246.9	162.9	102.2	62.0
30°	1058.1	973.1	889.6	787.3	656.5	519.7	390.8	276.0	181.0	111.6	68.4
27.5°	1108.8	1008.5	929.8	829.4	703.2	564.1	427.0	303.1	197.9	122.6	76.0
25°	1161.2	1049.2	960.2	865.5	746.4	605.1	460.4	328.3	217.8	136.3	83.0
22.5°	1222.5	1089.4	988.1	898.5	785.9	642.6	492.7	355.8	238.2	148.8	89.4
20°	1278.3	1125.9	1013.5	927.2	816.9	675.2	523.4	380.6	256.5	160.1	95.1
17.5°	1327.5	1165.0	1042.2	948.0	841.3	704.3	550.8	402.7	272.9	170.1	100.2
15°	1366.8	1205.5	1068.6	966.2	862.7	729.7	574.7	421.9	287.1	178.9	104.7
12.5°	1400.5	1240.1	1091.1	981.7	880.9	751.3	595.1	438.4	299.2	186.3	108.4
10°	1428.3	1268.7	1109.7	994.5	896.0	769.2	611.8	451.8	309.2	192.4	111.5
7.5°	1450.2	1291.2	1124.3	1004.5	907.7	783.1	624.9	462.4	317.0	197.2	114.0
5°	1465.9	1307.3	1134.7	1011.7	916.1	793.1	634.3	469.9	322.5	200.6	115.7
2.5°	1475.3	1317.0	1141.0	1016.1	921.2	799.1	639.9	474.5	325.9	202.6	116.8
0°	1478.5	1320.2	1143.1	1017.5	922.9	801.1	641.8	476.0	327.0	203.3	117.1
-2.5°	1475.3	1317.0	1141.0	1016.1	921.2	799.1	639.9	474.5	325.9	202.6	116.8
-5°	1465.9	1307.3	1134.7	1011.7	916.1	793.1	634.3	469.9	322.5	200.6	115.7
-7.5°	1450.2	1291.2	1124.3	1004.5	907.7	783.1	624.9	462.4	317.0	197.2	114.0
-10°	1428.3	1268.7	1109.7	994.5	896.0	769.2	611.8	451.8	309.2	192.4	111.5
-12.5°	1400.5	1240.1	1091.1	981.7	880.9	751.3	595.1	438.4	299.2	186.3	108.4
-15°	1366.8	1205.5	1068.6	966.2	862.7	729.7	574.7	421.9	287.1	178.9	104.7
-17.5°	1327.5	1165.0	1042.2	948.0	841.3	704.3	550.8	402.7	272.9	170.1	100.2
-20°	1278.3	1125.9	1013.5	927.2	816.9	675.2	523.4	380.6	256.5	160.1	95.1



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1222.5	1089.4	988.1	898.5	785.9	642.6	492.7	355.8	238.2	148.8	89.4
-25°	1161.2	1049.2	960.2	865.5	746.4	605.1	460.4	328.3	217.8	136.3	83.0
-27.5°	1108.8	1008.5	929.8	829.4	703.2	564.1	427.0	303.1	197.9	122.6	76.0
-30°	1058.1	973.1	889.6	787.3	656.5	519.7	390.8	276.0	181.0	111.6	68.4
-32.5°	1007.5	935.3	844.6	733.0	605.1	472.5	352.0	246.9	162.9	102.2	62.0
-35°	964.6	887.4	795.5	675.2	549.8	427.0	313.4	215.9	143.6	92.2	55.7
-37.5°	918.5	833.3	729.7	613.2	491.3	378.9	277.0	189.2	123.1	81.6	49.0
-40°	857.9	769.2	660.7	546.6	434.6	328.3	238.7	165.0	107.9	70.3	41.9
-42.5°	793.1	692.0	586.6	477.1	376.9	284.0	200.0	139.7	94.6	60.7	34.5
-45°	707.8	610.9	508.9	412.1	318.6	238.2	170.8	114.8	80.7	51.8	28.7
-47.5°	619.0	525.0	433.4	344.8	266.8	194.4	140.4	98.7	66.3	42.6	25.3
-50°	525.0	440.5	358.9	284.2	213.4	160.1	112.4	81.9	55.4	32.9	21.9
-52.5°	433.4	358.9	290.0	224.9	172.0	124.7	93.3	65.2	44.2	27.1	18.3
-55°	344.8	284.2	224.9	176.0	132.6	100.2	73.7	52.3	32.6	22.9	14.9
-57.5°	266.8	213.4	172.0	132.6	102.5	78.3	57.2	39.1	26.2	18.5	13.7
-60°	194.4	160.1	124.7	100.2	78.3	58.9	42.4	28.2	21.2	14.7	12.5
-62.5°	140.4	112.4	93.3	73.7	57.2	42.4	28.9	22.5	16.1	13.3	11.2
-65°	98.7	81.9	65.2	52.3	39.1	28.2	22.5	16.7	13.7	11.8	9.9
-67.5°	66.3	55.4	44.2	32.6	26.2	21.2	16.1	13.7	12.0	10.3	8.6
-70°	42.6	32.9	27.1	22.9	18.5	14.7	13.3	11.8	10.3	8.8	7.3
-72.5°	25.3	21.9	18.3	14.9	13.7	12.5	11.2	9.9	8.6	7.3	6.0
-75°	15.4	14.2	13.2	12.3	11.2	10.2	9.1	8.0	6.9	5.7	5.0
-77.5°	12.0	11.2	10.4	9.6	8.8	7.9	7.0	6.1	5.3	4.8	4.2
-80°	8.9	8.2	7.6	6.9	6.3	5.6	5.2	4.7	4.3	3.8	3.4
-82.5°	5.7	5.4	5.1	4.8	4.5	4.2	3.9	3.5	3.2	2.9	2.5
-85°	3.8	3.6	3.4	3.2	3.0	2.8	2.6	2.4	2.1	1.9	1.7
-87.5°	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	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°	0.7	0.6	0.5	0.4	0.2	0.1	0.0
85°	1.4	1.2	1.0	0.7	0.5	0.2	0.0
82.5°	2.2	1.8	1.5	1.1	0.7	0.4	0.0
80°	2.9	2.4	1.9	1.5	1.0	0.5	0.0
77.5°	3.6	3.0	2.4	1.8	1.2	0.6	0.0
75°	4.3	3.6	2.9	2.2	1.4	0.7	0.0
72.5°	5.0	4.2	3.4	2.5	1.7	0.8	0.0
70°	5.7	4.8	3.8	2.9	1.9	1.0	0.0
67.5°	6.9	5.3	4.3	3.2	2.1	1.1	0.0
65°	8.0	6.1	4.7	3.5	2.4	1.2	0.0
62.5°	9.1	7.0	5.2	3.9	2.6	1.3	0.0
60°	10.2	7.9	5.6	4.2	2.8	1.4	0.0
57.5°	11.2	8.8	6.3	4.5	3.0	1.5	0.0
55°	12.3	9.6	6.9	4.8	3.2	1.6	0.0
52.5°	13.2	10.4	7.6	5.1	3.4	1.7	0.0
50°	14.2	11.2	8.2	5.4	3.6	1.8	0.0
47.5°	15.4	12.0	8.9	5.7	3.8	1.9	0.0
45°	18.3	12.8	9.5	6.2	4.0	2.0	0.0
42.5°	21.0	13.5	10.0	6.6	4.1	2.1	0.0
40°	23.6	14.1	10.6	7.0	4.3	2.1	0.0
37.5°	26.1	14.8	11.1	7.4	4.4	2.2	0.0
35°	28.4	16.3	11.6	7.7	4.6	2.3	0.0
32.5°	31.6	18.1	12.0	8.1	4.7	2.4	0.0
30°	36.6	19.8	12.5	8.4	4.8	2.4	0.0
27.5°	41.3	21.4	12.9	8.7	5.0	2.5	0.0
25°	45.6	22.9	13.2	9.0	5.1	2.5	0.0
22.5°	49.5	24.2	13.6	9.2	5.2	2.6	0.0
20°	53.0	25.4	13.9	9.4	5.3	2.6	0.0
17.5°	56.1	26.5	14.1	9.6	5.3	2.7	0.0
15°	58.9	27.4	14.4	9.8	5.4	2.7	0.0
12.5°	61.2	28.2	14.5	10.0	5.5	2.7	0.0
10°	63.1	28.8	14.7	10.1	5.5	2.8	0.0
7.5°	64.6	29.3	14.8	10.2	5.6	2.8	0.0
5°	65.6	29.7	14.9	10.2	5.6	2.8	0.0
2.5°	66.3	29.9	15.0	10.3	5.6	2.8	0.0
0°	66.5	30.0	15.0	10.3	5.6	2.8	0.0
-2.5°	66.3	29.9	15.0	10.3	5.6	2.8	0.0
-5°	65.6	29.7	14.9	10.2	5.6	2.8	0.0
-7.5°	64.6	29.3	14.8	10.2	5.6	2.8	0.0
-10°	63.1	28.8	14.7	10.1	5.5	2.8	0.0
-12.5°	61.2	28.2	14.5	10.0	5.5	2.7	0.0
-15°	58.9	27.4	14.4	9.8	5.4	2.7	0.0
-17.5°	56.1	26.5	14.1	9.6	5.3	2.7	0.0
-20°	53.0	25.4	13.9	9.4	5.3	2.6	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	49.5	24.2	13.6	9.2	5.2	2.6	0.0
-25°	45.6	22.9	13.2	9.0	5.1	2.5	0.0
-27.5°	41.3	21.4	12.9	8.7	5.0	2.5	0.0
-30°	36.6	19.8	12.5	8.4	4.8	2.4	0.0
-32.5°	31.6	18.1	12.0	8.1	4.7	2.4	0.0
-35°	28.4	16.3	11.6	7.7	4.6	2.3	0.0
-37.5°	26.1	14.8	11.1	7.4	4.4	2.2	0.0
-40°	23.6	14.1	10.6	7.0	4.3	2.1	0.0
-42.5°	21.0	13.5	10.0	6.6	4.1	2.1	0.0
-45°	18.3	12.8	9.5	6.2	4.0	2.0	0.0
-47.5°	15.4	12.0	8.9	5.7	3.8	1.9	0.0
-50°	14.2	11.2	8.2	5.4	3.6	1.8	0.0
-52.5°	13.2	10.4	7.6	5.1	3.4	1.7	0.0
-55°	12.3	9.6	6.9	4.8	3.2	1.6	0.0
-57.5°	11.2	8.8	6.3	4.5	3.0	1.5	0.0
-60°	10.2	7.9	5.6	4.2	2.8	1.4	0.0
-62.5°	9.1	7.0	5.2	3.9	2.6	1.3	0.0
-65°	8.0	6.1	4.7	3.5	2.4	1.2	0.0
-67.5°	6.9	5.3	4.3	3.2	2.1	1.1	0.0
-70°	5.7	4.8	3.8	2.9	1.9	1.0	0.0
-72.5°	5.0	4.2	3.4	2.5	1.7	0.8	0.0
-75°	4.3	3.6	2.9	2.2	1.4	0.7	0.0
-77.5°	3.6	3.0	2.4	1.8	1.2	0.6	0.0
-80°	2.9	2.4	1.9	1.5	1.0	0.5	0.0
-82.5°	2.2	1.8	1.5	1.1	0.7	0.4	0.0
-85°	1.4	1.2	1.0	0.7	0.5	0.2	0.0
-87.5°	0.7	0.6	0.5	0.4	0.2	0.1	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

