

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: P701468 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-40-70-7F-HEG-S**

Issue Date: 8/15/2023

Test Information

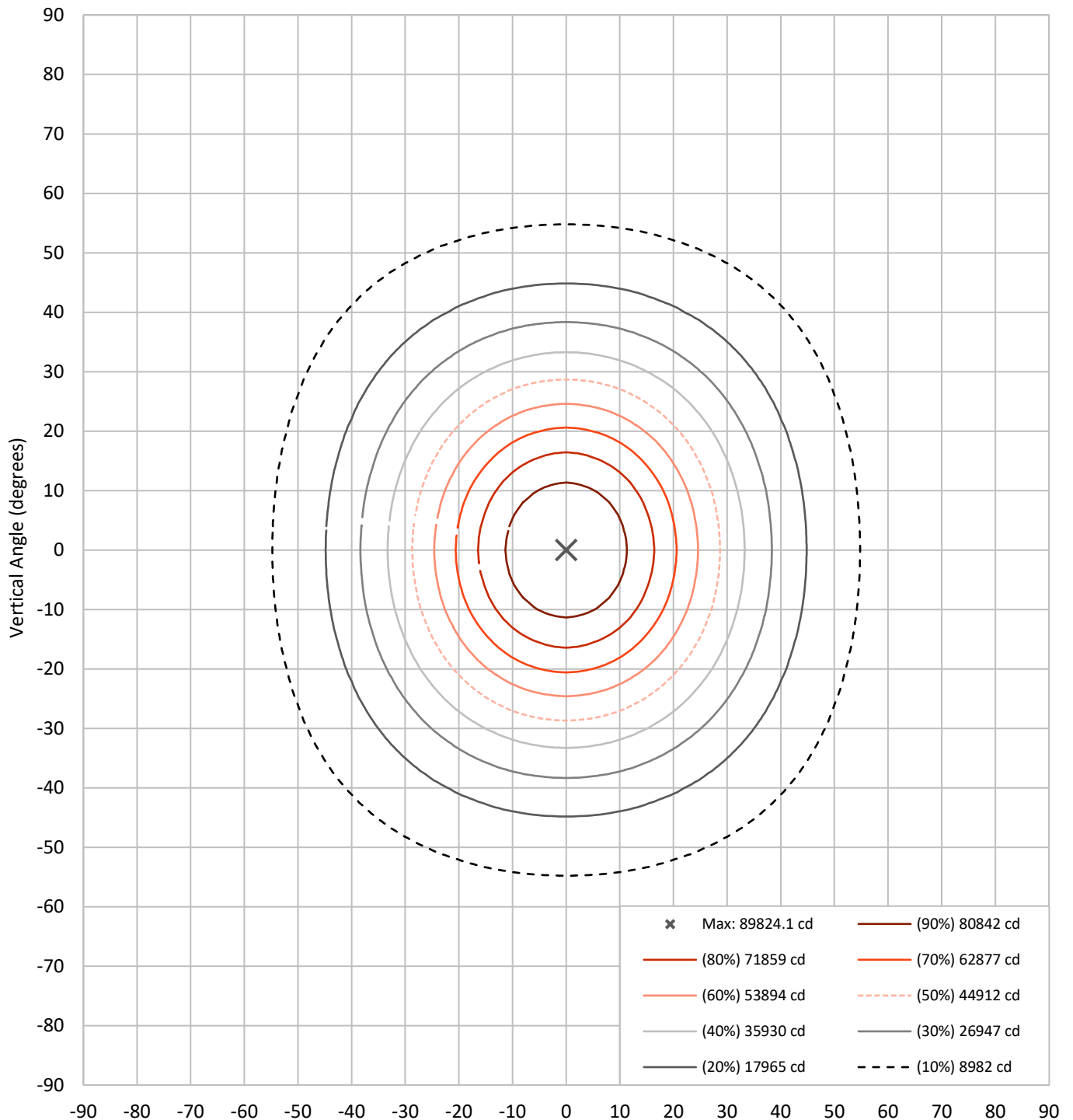
Test Method: LM-79-08
Report Number: P701468 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-7)
Test Lab: INNOVATION CENTER
Issue Date: 8/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680R-40-70-7F-HEG-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 7F BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	101349 lumens	Max Intensity:	89824.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	145.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	57.4°H x 57.4°V	Field Angle (10%):	109.4°H x 109.4°V
Beam Lumens:	49914.3 lumens	Field Lumens:	91945.3 lumens
Beam Efficiency:	49.2%	Field Efficiency:	90.7%
Input Watts (W):	697.5		
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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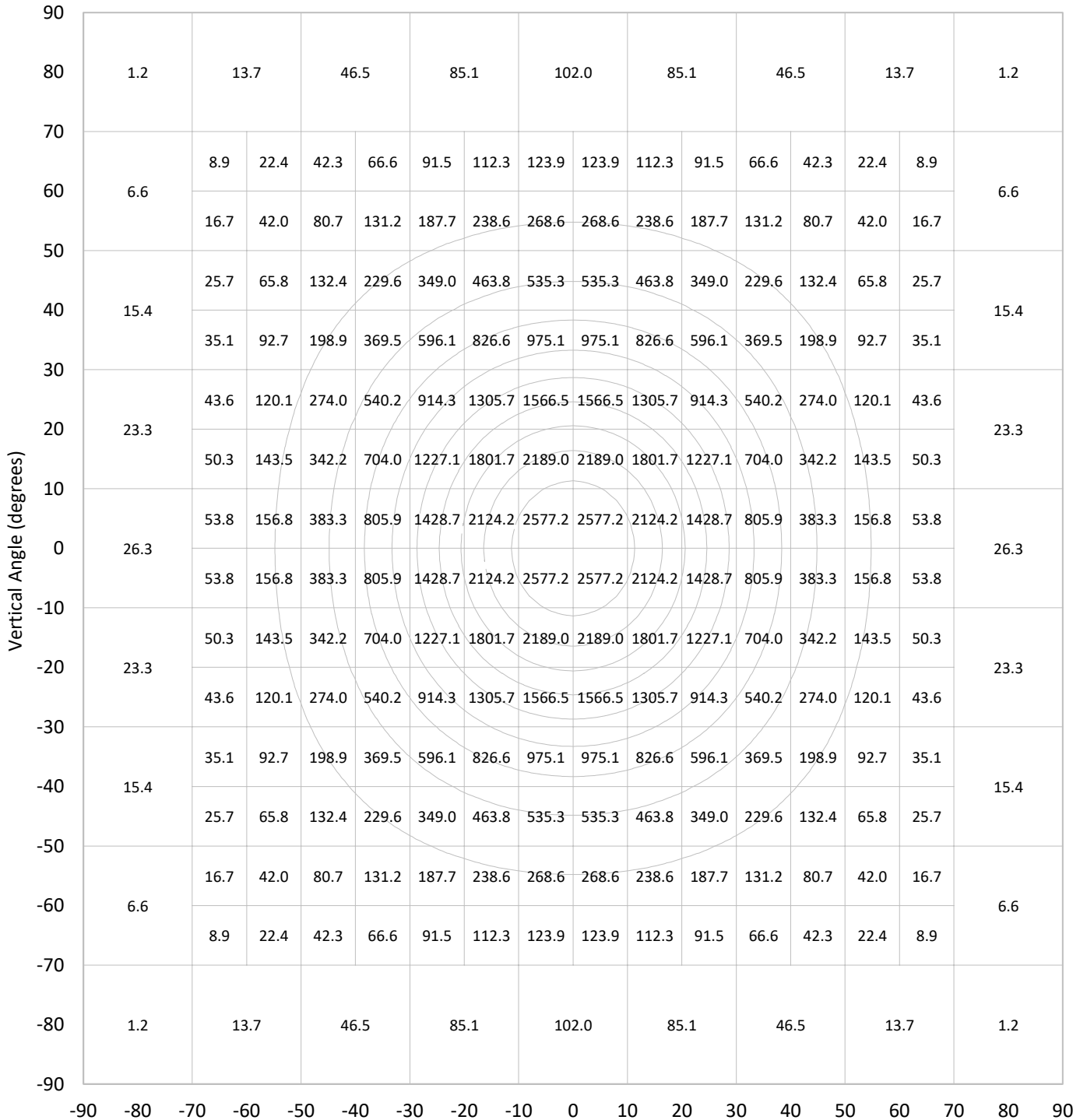
Iso-Candela Plot





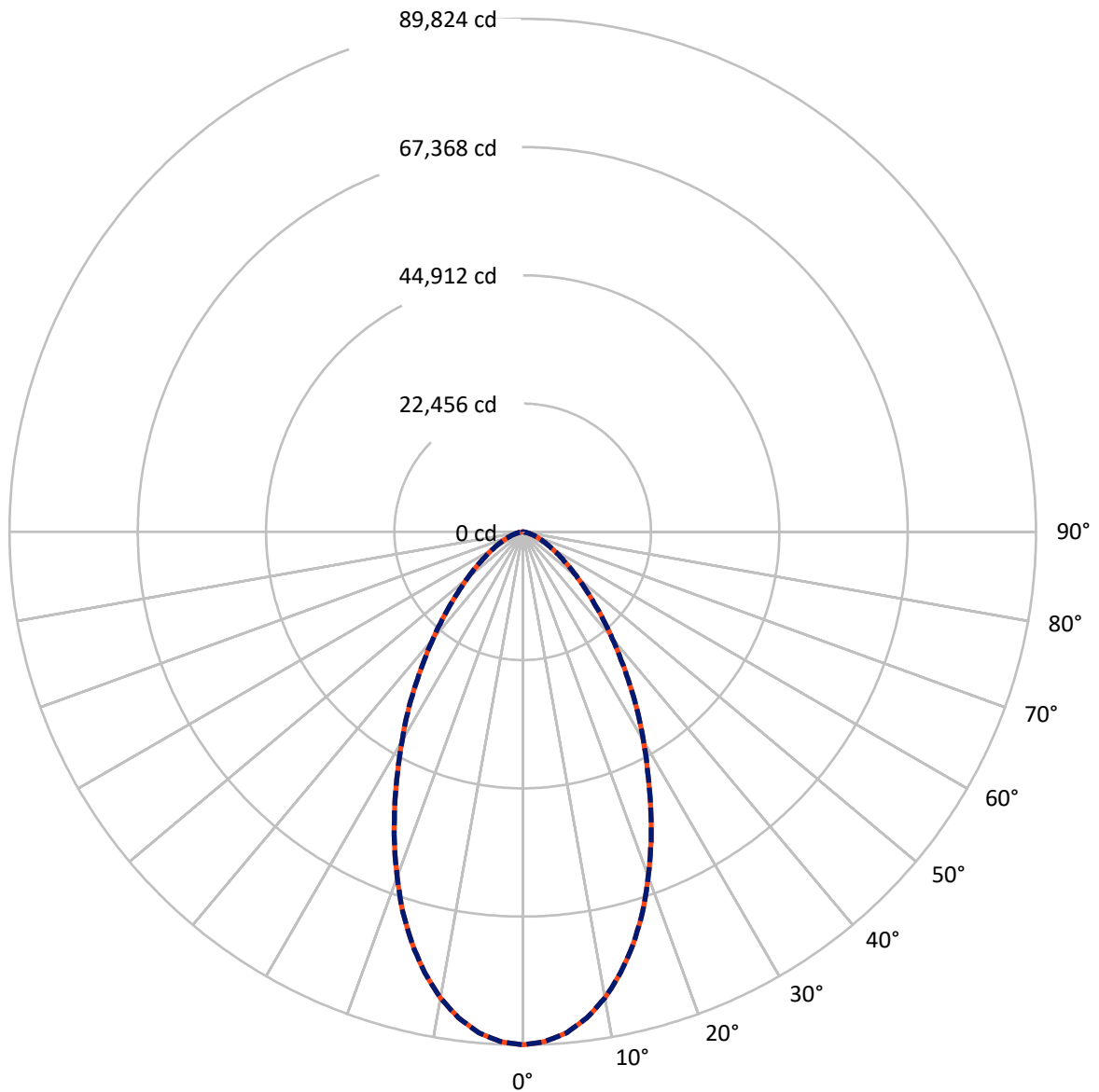
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Lumen Table



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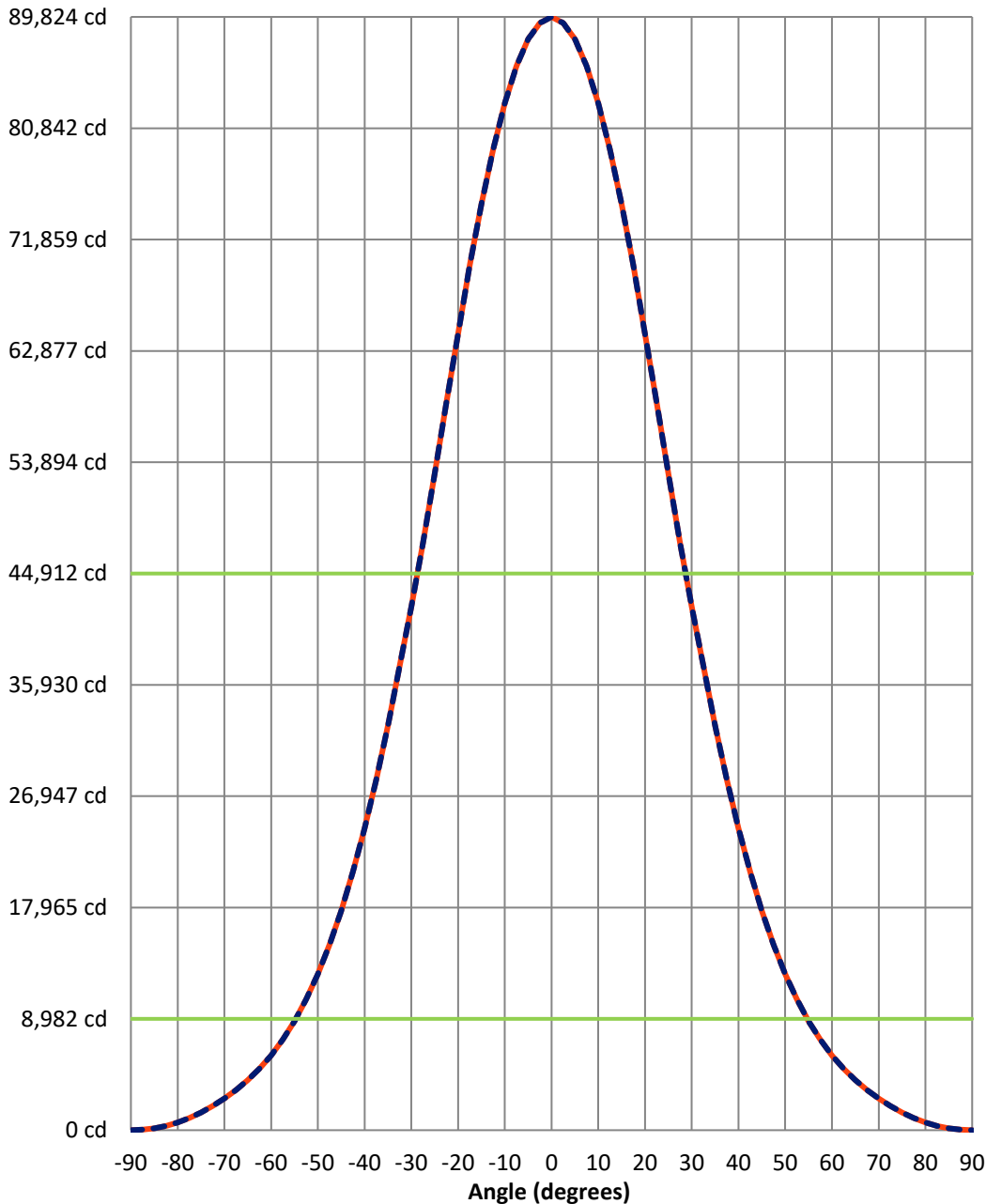
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 57.4°
 V Angle: 57.4°
 Lumens: 49914.3
 Efficiency: 49.2%

Field:
 H Angle: 109.4°
 V Angle: 109.4°
 Lumens: 91945.3
 Efficiency: 90.7%

Spill:
 Lumens: 9403.6
 Efficiency: 9.3%

- 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	2.0	4.0	6.0	7.9	9.9	11.8	13.7	15.6	17.5	19.3
85°	0.0	4.0	8.0	11.9	15.9	19.8	23.6	27.5	31.2	34.9	38.6
82.5°	0.0	6.0	11.9	17.8	23.7	29.6	35.4	41.1	48.1	60.8	73.3
80°	0.0	7.9	15.9	23.7	31.6	39.4	48.9	66.2	83.4	100.3	116.8
77.5°	0.0	9.9	19.8	29.6	39.4	53.4	75.3	97.0	118.4	139.4	168.7
75°	0.0	11.8	23.6	35.4	48.9	75.3	101.5	127.5	155.8	201.8	247.1
72.5°	0.0	13.7	27.5	41.1	66.2	97.0	127.5	164.1	218.4	272.0	324.7
70°	0.0	15.6	31.2	48.1	83.4	118.4	155.8	218.4	280.3	342.1	431.0
67.5°	0.0	17.5	34.9	60.8	100.3	139.4	201.8	272.0	342.1	443.4	543.2
65°	0.0	19.3	38.6	73.3	116.8	168.7	247.1	324.7	431.0	543.2	662.9
62.5°	0.0	21.1	42.2	85.5	133.1	205.7	291.4	394.0	518.3	646.8	802.4
60°	0.0	22.8	45.7	97.4	149.0	242.0	334.9	468.9	603.8	770.3	939.3
57.5°	0.0	24.5	53.4	109.1	176.7	277.3	395.3	542.1	706.4	891.0	1093.3
55°	0.0	26.2	60.9	120.4	204.2	311.8	456.5	613.4	811.1	1014.6	1253.1
52.5°	0.0	27.8	68.2	131.4	231.0	347.8	515.9	700.4	913.0	1154.6	1408.7
50°	0.0	29.4	75.3	142.0	256.9	395.7	573.5	786.7	1018.2	1290.5	1586.5
47.5°	0.0	30.9	82.2	154.3	281.8	442.0	631.3	870.2	1134.8	1421.9	1761.7
45°	0.0	32.3	88.7	172.3	305.8	486.5	700.0	950.5	1247.3	1573.2	1930.8
42.5°	0.0	33.7	95.0	189.5	328.8	529.1	765.9	1037.5	1355.2	1719.0	2112.5
40°	0.0	35.0	101.0	205.9	356.0	569.8	828.8	1127.4	1464.9	1858.6	2289.7
37.5°	0.0	36.3	106.7	221.5	386.9	608.4	888.6	1213.0	1582.6	1996.6	2458.6
35°	0.0	37.4	112.1	236.3	416.1	651.8	945.2	1294.1	1694.0	2140.0	2627.2
32.5°	0.0	38.5	117.1	250.1	443.5	696.0	1002.0	1370.3	1799.0	2275.2	2799.0
30°	0.0	39.6	121.8	263.1	469.1	737.4	1062.8	1445.0	1897.3	2401.9	2960.0
27.5°	0.0	40.5	126.2	275.1	492.9	775.7	1119.3	1524.4	1993.3	2519.6	3109.9
25°	0.0	41.4	130.3	286.1	514.7	811.0	1171.4	1597.6	2089.1	2637.9	3249.2
22.5°	0.0	42.2	133.9	296.2	534.7	843.2	1218.8	1664.3	2176.5	2750.6	3396.5
20°	0.0	42.9	137.2	305.2	552.6	872.1	1261.5	1724.4	2255.4	2852.3	3529.6
17.5°	0.0	43.6	140.1	313.3	568.5	897.8	1299.5	1777.8	2325.4	2942.7	3647.9
15°	0.0	44.1	142.7	320.3	582.4	920.2	1332.5	1824.4	2386.5	3021.6	3751.2
12.5°	0.0	44.6	144.9	326.2	594.2	939.3	1360.6	1864.0	2438.5	3088.7	3839.1
10°	0.0	45.0	146.6	331.1	603.8	954.9	1383.7	1896.5	2481.2	3143.8	3911.4
7.5°	0.0	45.3	148.0	334.9	611.4	967.1	1401.7	1921.9	2514.5	3186.9	3967.9
5°	0.0	45.5	149.0	337.6	616.8	975.8	1414.6	1940.0	2538.4	3217.8	4008.3
2.5°	0.0	45.7	149.6	339.3	620.0	981.1	1422.3	1951.0	2552.7	3236.3	4032.7
0°	0.0	45.7	149.8	339.8	621.1	982.8	1424.9	1954.6	2557.5	3242.5	4040.8
-2.5°	0.0	45.7	149.6	339.3	620.0	981.1	1422.3	1951.0	2552.7	3236.3	4032.7
-5°	0.0	45.5	149.0	337.6	616.8	975.8	1414.6	1940.0	2538.4	3217.8	4008.3
-7.5°	0.0	45.3	148.0	334.9	611.4	967.1	1401.7	1921.9	2514.5	3186.9	3967.9
-10°	0.0	45.0	146.6	331.1	603.8	954.9	1383.7	1896.5	2481.2	3143.8	3911.4
-12.5°	0.0	44.6	144.9	326.2	594.2	939.3	1360.6	1864.0	2438.5	3088.7	3839.1
-15°	0.0	44.1	142.7	320.3	582.4	920.2	1332.5	1824.4	2386.5	3021.6	3751.2
-17.5°	0.0	43.6	140.1	313.3	568.5	897.8	1299.5	1777.8	2325.4	2942.7	3647.9
-20°	0.0	42.9	137.2	305.2	552.6	872.1	1261.5	1724.4	2255.4	2852.3	3529.6



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 CATALOG NUMBER: EPH-LS-08-0680R-40-70-7F-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	42.2	133.9	296.2	534.7	843.2	1218.8	1664.3	2176.5	2750.6	3396.5
-25°	0.0	41.4	130.3	286.1	514.7	811.0	1171.4	1597.6	2089.1	2637.9	3249.2
-27.5°	0.0	40.5	126.2	275.1	492.9	775.7	1119.3	1524.4	1993.3	2519.6	3109.9
-30°	0.0	39.6	121.8	263.1	469.1	737.4	1062.8	1445.0	1897.3	2401.9	2960.0
-32.5°	0.0	38.5	117.1	250.1	443.5	696.0	1002.0	1370.3	1799.0	2275.2	2799.0
-35°	0.0	37.4	112.1	236.3	416.1	651.8	945.2	1294.1	1694.0	2140.0	2627.2
-37.5°	0.0	36.3	106.7	221.5	386.9	608.4	888.6	1213.0	1582.6	1996.6	2458.6
-40°	0.0	35.0	101.0	205.9	356.0	569.8	828.8	1127.4	1464.9	1858.6	2289.7
-42.5°	0.0	33.7	95.0	189.5	328.8	529.1	765.9	1037.5	1355.2	1719.0	2112.5
-45°	0.0	32.3	88.7	172.3	305.8	486.5	700.0	950.5	1247.3	1573.2	1930.8
-47.5°	0.0	30.9	82.2	154.3	281.8	442.0	631.3	870.2	1134.8	1421.9	1761.7
-50°	0.0	29.4	75.3	142.0	256.9	395.7	573.5	786.7	1018.2	1290.5	1586.5
-52.5°	0.0	27.8	68.2	131.4	231.0	347.8	515.9	700.4	913.0	1154.6	1408.7
-55°	0.0	26.2	60.9	120.4	204.2	311.8	456.5	613.4	811.1	1014.6	1253.1
-57.5°	0.0	24.5	53.4	109.1	176.7	277.3	395.3	542.1	706.4	891.0	1093.3
-60°	0.0	22.8	45.7	97.4	149.0	242.0	334.9	468.9	603.8	770.3	939.3
-62.5°	0.0	21.1	42.2	85.5	133.1	205.7	291.4	394.0	518.3	646.8	802.4
-65°	0.0	19.3	38.6	73.3	116.8	168.7	247.1	324.7	431.0	543.2	662.9
-67.5°	0.0	17.5	34.9	60.8	100.3	139.4	201.8	272.0	342.1	443.4	543.2
-70°	0.0	15.6	31.2	48.1	83.4	118.4	155.8	218.4	280.3	342.1	431.0
-72.5°	0.0	13.7	27.5	41.1	66.2	97.0	127.5	164.1	218.4	272.0	324.7
-75°	0.0	11.8	23.6	35.4	48.9	75.3	101.5	127.5	155.8	201.8	247.1
-77.5°	0.0	9.9	19.8	29.6	39.4	53.4	75.3	97.0	118.4	139.4	168.7
-80°	0.0	7.9	15.9	23.7	31.6	39.4	48.9	66.2	83.4	100.3	116.8
-82.5°	0.0	6.0	11.9	17.8	23.7	29.6	35.4	41.1	48.1	60.8	73.3
-85°	0.0	4.0	8.0	11.9	15.9	19.8	23.6	27.5	31.2	34.9	38.6
-87.5°	0.0	2.0	4.0	6.0	7.9	9.9	11.8	13.7	15.6	17.5	19.3
-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: P701468 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-70-7F-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°	21.1	22.8	24.5	26.2	27.8	29.4	30.9	32.3	33.7	35.0	36.3
85°	42.2	45.7	53.4	60.9	68.2	75.3	82.2	88.7	95.0	101.0	106.7
82.5°	85.5	97.4	109.1	120.4	131.4	142.0	154.3	172.3	189.5	205.9	221.5
80°	133.1	149.0	176.7	204.2	231.0	256.9	281.8	305.8	328.8	356.0	386.9
77.5°	205.7	242.0	277.3	311.8	347.8	395.7	442.0	486.5	529.1	569.8	608.4
75°	291.4	334.9	395.3	456.5	515.9	573.5	631.3	700.0	765.9	828.8	888.6
72.5°	394.0	468.9	542.1	613.4	700.4	786.7	870.2	950.5	1037.5	1127.4	1213.0
70°	518.3	603.8	706.4	811.1	913.0	1018.2	1134.8	1247.3	1355.2	1464.9	1582.6
67.5°	646.8	770.3	891.0	1014.6	1154.6	1290.5	1421.9	1573.2	1719.0	1858.6	1996.6
65°	802.4	939.3	1093.3	1253.1	1408.7	1586.5	1761.7	1930.8	2112.5	2289.7	2458.6
62.5°	955.4	1132.9	1312.6	1500.7	1705.8	1905.0	2117.9	2330.0	2534.2	2753.4	2965.6
60°	1132.9	1332.5	1548.6	1777.8	2007.9	2255.4	2495.4	2750.6	3004.6	3249.2	3520.5
57.5°	1312.6	1548.6	1802.0	2063.1	2338.5	2613.5	2909.4	3195.7	3509.8	3818.9	4126.0
55°	1500.7	1777.8	2063.1	2366.4	2677.1	3005.4	3338.0	3698.3	4047.0	4433.7	4803.9
52.5°	1705.8	2007.9	2338.5	2677.1	3037.6	3413.6	3812.4	4224.1	4656.4	5089.3	5548.8
50°	1905.0	2255.4	2613.5	3005.4	3413.6	3850.6	4313.2	4791.4	5298.1	5811.9	6365.7
47.5°	2117.9	2495.4	2909.4	3338.0	3812.4	4313.2	4836.5	5403.2	5971.3	6626.7	7268.2
45°	2330.0	2750.6	3195.7	3698.3	4224.1	4791.4	5403.2	6024.7	6758.2	7489.8	8270.9
42.5°	2534.2	3004.6	3509.8	4047.0	4656.4	5298.1	5971.3	6758.2	7566.2	8426.1	9353.2
40°	2753.4	3249.2	3818.9	4433.7	5089.3	5811.9	6626.7	7489.8	8426.1	9448.7	10510.2
37.5°	2965.6	3520.5	4126.0	4803.9	5548.8	6365.7	7268.2	8270.9	9353.2	10510.2	11785.4
35°	3167.1	3778.4	4451.2	5185.9	5987.3	6938.9	7963.0	9068.2	10315.8	11671.7	13098.4
32.5°	3376.4	4022.2	4759.0	5570.7	6485.0	7507.7	8630.9	9930.4	11332.5	12826.3	14493.0
30°	3584.5	4283.9	5061.2	5933.0	6961.9	8095.3	9361.0	10774.5	12332.2	14076.8	15947.6
27.5°	3778.4	4530.7	5372.1	6324.9	7421.7	8646.2	10077.0	11654.0	13392.8	15300.9	17391.9
25°	3957.5	4759.0	5660.0	6706.3	7894.8	9235.0	10769.8	12474.8	14426.5	16568.9	18922.2
22.5°	4133.8	4968.5	5923.7	7056.3	8329.5	9803.4	11472.3	13343.0	15442.6	17754.6	20391.4
20°	4304.8	5185.9	6192.1	7381.9	8723.9	10319.9	12111.8	14153.3	16442.8	19008.1	21835.5
17.5°	4457.0	5379.5	6450.8	7705.2	9136.1	10813.6	12701.2	14881.0	17342.9	20139.0	23186.0
15°	4590.0	5548.8	6677.1	7988.2	9508.8	11277.4	13291.8	15600.9	18209.7	21169.4	24387.8
12.5°	4703.2	5693.1	6870.2	8229.9	9827.3	11674.3	13797.8	16229.7	19003.4	22121.9	25553.8
10°	4796.4	5811.9	7029.2	8429.2	10090.1	12002.1	14216.3	16750.4	19661.7	22913.4	26524.8
7.5°	4869.3	5904.7	7153.6	8585.1	10295.9	12259.0	14544.6	17159.3	20179.4	23536.9	27291.1
5°	4921.4	5971.3	7242.8	8697.0	10443.7	12443.6	14780.6	17453.6	20552.3	23986.6	27844.6
2.5°	4952.8	6011.3	7296.5	8764.3	10532.7	12554.8	14922.9	17631.1	20777.4	24258.2	28179.2
0°	4963.3	6024.7	7314.4	8786.8	10562.4	12591.9	14970.4	17690.4	20852.6	24349.0	28291.2
-2.5°	4952.8	6011.3	7296.5	8764.3	10532.7	12554.8	14922.9	17631.1	20777.4	24258.2	28179.2
-5°	4921.4	5971.3	7242.8	8697.0	10443.7	12443.6	14780.6	17453.6	20552.3	23986.6	27844.6
-7.5°	4869.3	5904.7	7153.6	8585.1	10295.9	12259.0	14544.6	17159.3	20179.4	23536.9	27291.1
-10°	4796.4	5811.9	7029.2	8429.2	10090.1	12002.1	14216.3	16750.4	19661.7	22913.4	26524.8
-12.5°	4703.2	5693.1	6870.2	8229.9	9827.3	11674.3	13797.8	16229.7	19003.4	22121.9	25553.8
-15°	4590.0	5548.8	6677.1	7988.2	9508.8	11277.4	13291.8	15600.9	18209.7	21169.4	24387.8
-17.5°	4457.0	5379.5	6450.8	7705.2	9136.1	10813.6	12701.2	14881.0	17342.9	20139.0	23186.0
-20°	4304.8	5185.9	6192.1	7381.9	8723.9	10319.9	12111.8	14153.3	16442.8	19008.1	21835.5



REPORT NUMBER: P701468 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-70-7F-HEG-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	4133.8	4968.5	5923.7	7056.3	8329.5	9803.4	11472.3	13343.0	15442.6	17754.6	20391.4
-25°	3957.5	4759.0	5660.0	6706.3	7894.8	9235.0	10769.8	12474.8	14426.5	16568.9	18922.2
-27.5°	3778.4	4530.7	5372.1	6324.9	7421.7	8646.2	10077.0	11654.0	13392.8	15300.9	17391.9
-30°	3584.5	4283.9	5061.2	5933.0	6961.9	8095.3	9361.0	10774.5	12332.2	14076.8	15947.6
-32.5°	3376.4	4022.2	4759.0	5570.7	6485.0	7507.7	8630.9	9930.4	11332.5	12826.3	14493.0
-35°	3167.1	3778.4	4451.2	5185.9	5987.3	6938.9	7963.0	9068.2	10315.8	11671.7	13098.4
-37.5°	2965.6	3520.5	4126.0	4803.9	5548.8	6365.7	7268.2	8270.9	9353.2	10510.2	11785.4
-40°	2753.4	3249.2	3818.9	4433.7	5089.3	5811.9	6626.7	7489.8	8426.1	9448.7	10510.2
-42.5°	2534.2	3004.6	3509.8	4047.0	4656.4	5298.1	5971.3	6758.2	7566.2	8426.1	9353.2
-45°	2330.0	2750.6	3195.7	3698.3	4224.1	4791.4	5403.2	6024.7	6758.2	7489.8	8270.9
-47.5°	2117.9	2495.4	2909.4	3338.0	3812.4	4313.2	4836.5	5403.2	5971.3	6626.7	7268.2
-50°	1905.0	2255.4	2613.5	3005.4	3413.6	3850.6	4313.2	4791.4	5298.1	5811.9	6365.7
-52.5°	1705.8	2007.9	2338.5	2677.1	3037.6	3413.6	3812.4	4224.1	4656.4	5089.3	5548.8
-55°	1500.7	1777.8	2063.1	2366.4	2677.1	3005.4	3338.0	3698.3	4047.0	4433.7	4803.9
-57.5°	1312.6	1548.6	1802.0	2063.1	2338.5	2613.5	2909.4	3195.7	3509.8	3818.9	4126.0
-60°	1132.9	1332.5	1548.6	1777.8	2007.9	2255.4	2495.4	2750.6	3004.6	3249.2	3520.5
-62.5°	955.4	1132.9	1312.6	1500.7	1705.8	1905.0	2117.9	2330.0	2534.2	2753.4	2965.6
-65°	802.4	939.3	1093.3	1253.1	1408.7	1586.5	1761.7	1930.8	2112.5	2289.7	2458.6
-67.5°	646.8	770.3	891.0	1014.6	1154.6	1290.5	1421.9	1573.2	1719.0	1858.6	1996.6
-70°	518.3	603.8	706.4	811.1	913.0	1018.2	1134.8	1247.3	1355.2	1464.9	1582.6
-72.5°	394.0	468.9	542.1	613.4	700.4	786.7	870.2	950.5	1037.5	1127.4	1213.0
-75°	291.4	334.9	395.3	456.5	515.9	573.5	631.3	700.0	765.9	828.8	888.6
-77.5°	205.7	242.0	277.3	311.8	347.8	395.7	442.0	486.5	529.1	569.8	608.4
-80°	133.1	149.0	176.7	204.2	231.0	256.9	281.8	305.8	328.8	356.0	386.9
-82.5°	85.5	97.4	109.1	120.4	131.4	142.0	154.3	172.3	189.5	205.9	221.5
-85°	42.2	45.7	53.4	60.9	68.2	75.3	82.2	88.7	95.0	101.0	106.7
-87.5°	21.1	22.8	24.5	26.2	27.8	29.4	30.9	32.3	33.7	35.0	36.3
-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: P701468 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	37.4	38.5	39.6	40.5	41.4	42.2	42.9	43.6	44.1	44.6	45.0
85°	112.1	117.1	121.8	126.2	130.3	133.9	137.2	140.1	142.7	144.9	146.6
82.5°	236.3	250.1	263.1	275.1	286.1	296.2	305.2	313.3	320.3	326.2	331.1
80°	416.1	443.5	469.1	492.9	514.7	534.7	552.6	568.5	582.4	594.2	603.8
77.5°	651.8	696.0	737.4	775.7	811.0	843.2	872.1	897.8	920.2	939.3	954.9
75°	945.2	1002.0	1062.8	1119.3	1171.4	1218.8	1261.5	1299.5	1332.5	1360.6	1383.7
72.5°	1294.1	1370.3	1445.0	1524.4	1597.6	1664.3	1724.4	1777.8	1824.4	1864.0	1896.5
70°	1694.0	1799.0	1897.3	1993.3	2089.1	2176.5	2255.4	2325.4	2386.5	2438.5	2481.2
67.5°	2140.0	2275.2	2401.9	2519.6	2637.9	2750.6	2852.3	2942.7	3021.6	3088.7	3143.8
65°	2627.2	2799.0	2960.0	3109.9	3249.2	3396.5	3529.6	3647.9	3751.2	3839.1	3911.4
62.5°	3167.1	3376.4	3584.5	3778.4	3957.5	4133.8	4304.8	4457.0	4590.0	4703.2	4796.4
60°	3778.4	4022.2	4283.9	4530.7	4759.0	4968.5	5185.9	5379.5	5548.8	5693.1	5811.9
57.5°	4451.2	4759.0	5061.2	5372.1	5660.0	5923.7	6192.1	6450.8	6677.1	6870.2	7029.2
55°	5185.9	5570.7	5933.0	6324.9	6706.3	7056.3	7381.9	7705.2	7988.2	8229.9	8429.2
52.5°	5987.3	6485.0	6961.9	7421.7	7894.8	8329.5	8723.9	9136.1	9508.8	9827.3	10090.1
50°	6938.9	7507.7	8095.3	8646.2	9235.0	9803.4	10319.9	10813.6	11277.4	11674.3	12002.1
47.5°	7963.0	8630.9	9361.0	10077.0	10769.8	11472.3	12111.8	12701.2	13291.8	13797.8	14216.3
45°	9068.2	9930.4	10774.5	11654.0	12474.8	13343.0	14153.3	14881.0	15600.9	16229.7	16750.4
42.5°	10315.8	11332.5	12332.2	13392.8	14426.5	15442.6	16442.8	17342.9	18209.7	19003.4	19661.7
40°	11671.7	12826.3	14076.8	15300.9	16568.9	17754.6	19008.1	20139.0	21169.4	22121.9	22913.4
37.5°	13098.4	14493.0	15947.6	17391.9	18922.2	20391.4	21835.5	23186.0	24387.8	25553.8	26524.8
35°	14632.7	16274.6	17926.5	19716.5	21463.2	23206.0	24871.8	26515.9	27978.3	29343.4	30510.2
32.5°	16274.6	18122.4	20118.7	22147.4	24140.9	26220.2	28168.9	30114.8	31863.2	33460.5	34866.5
30°	17926.5	20118.7	22377.6	24648.9	27045.6	29404.6	31716.3	33955.6	36050.0	37876.2	39406.8
27.5°	19716.5	22147.4	24648.9	27323.6	30039.0	32705.8	35449.9	37970.7	40234.8	42220.7	44026.5
25°	21463.2	24140.9	27045.6	30039.0	33072.3	36211.5	39151.5	41865.6	44486.8	46824.5	48933.4
22.5°	23206.0	26220.2	29404.6	32705.8	36211.5	39550.8	42736.1	45892.7	48893.6	51674.4	54079.1
20°	24871.8	28168.9	31716.3	35449.9	39151.5	42736.1	46369.5	49982.4	53397.6	56521.2	59203.2
17.5°	26515.9	30114.8	33955.6	37970.7	41865.6	45892.7	49982.4	53994.6	57787.2	61148.0	64060.6
15°	27978.3	31863.2	36050.0	40234.8	44486.8	48893.6	53397.6	57787.2	61815.1	65492.2	68757.4
12.5°	29343.4	33460.5	37876.2	42220.7	46824.5	51674.4	56521.2	61148.0	65492.2	69550.4	72823.7
10°	30510.2	34866.5	39406.8	44026.5	48933.4	54079.1	59203.2	64060.6	68757.4	72823.7	76393.1
7.5°	31433.2	35981.7	40625.0	45470.3	50665.9	56048.1	61337.6	66470.3	71300.1	75563.3	79144.9
5°	32101.1	36790.5	41510.9	46523.9	51935.9	57499.7	62923.4	68279.8	73147.9	77540.5	81203.1
2.5°	32505.3	37280.8	42049.0	47165.5	52711.7	58390.2	63901.9	69405.6	74311.4	78719.3	82434.6
0°	32640.7	37445.1	42229.5	47381.0	52972.7	58690.5	64232.9	69788.1	74709.4	79108.3	82858.7
-2.5°	32505.3	37280.8	42049.0	47165.5	52711.7	58390.2	63901.9	69405.6	74311.4	78719.3	82434.6
-5°	32101.1	36790.5	41510.9	46523.9	51935.9	57499.7	62923.4	68279.8	73147.9	77540.5	81203.1
-7.5°	31433.2	35981.7	40625.0	45470.3	50665.9	56048.1	61337.6	66470.3	71300.1	75563.3	79144.9
-10°	30510.2	34866.5	39406.8	44026.5	48933.4	54079.1	59203.2	64060.6	68757.4	72823.7	76393.1
-12.5°	29343.4	33460.5	37876.2	42220.7	46824.5	51674.4	56521.2	61148.0	65492.2	69550.4	72823.7
-15°	27978.3	31863.2	36050.0	40234.8	44486.8	48893.6	53397.6	57787.2	61815.1	65492.2	68757.4
-17.5°	26515.9	30114.8	33955.6	37970.7	41865.6	45892.7	49982.4	53994.6	57787.2	61148.0	64060.6
-20°	24871.8	28168.9	31716.3	35449.9	39151.5	42736.1	46369.5	49982.4	53397.6	56521.2	59203.2



REPORT NUMBER: P701468 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-70-7F-HEG-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	23206.0	26220.2	29404.6	32705.8	36211.5	39550.8	42736.1	45892.7	48893.6	51674.4	54079.1
-25°	21463.2	24140.9	27045.6	30039.0	33072.3	36211.5	39151.5	41865.6	44486.8	46824.5	48933.4
-27.5°	19716.5	22147.4	24648.9	27323.6	30039.0	32705.8	35449.9	37970.7	40234.8	42220.7	44026.5
-30°	17926.5	20118.7	22377.6	24648.9	27045.6	29404.6	31716.3	33955.6	36050.0	37876.2	39406.8
-32.5°	16274.6	18122.4	20118.7	22147.4	24140.9	26220.2	28168.9	30114.8	31863.2	33460.5	34866.5
-35°	14632.7	16274.6	17926.5	19716.5	21463.2	23206.0	24871.8	26515.9	27978.3	29343.4	30510.2
-37.5°	13098.4	14493.0	15947.6	17391.9	18922.2	20391.4	21835.5	23186.0	24387.8	25553.8	26524.8
-40°	11671.7	12826.3	14076.8	15300.9	16568.9	17754.6	19008.1	20139.0	21169.4	22121.9	22913.4
-42.5°	10315.8	11332.5	12332.2	13392.8	14426.5	15442.6	16442.8	17342.9	18209.7	19003.4	19661.7
-45°	9068.2	9930.4	10774.5	11654.0	12474.8	13343.0	14153.3	14881.0	15600.9	16229.7	16750.4
-47.5°	7963.0	8630.9	9361.0	10077.0	10769.8	11472.3	12111.8	12701.2	13291.8	13797.8	14216.3
-50°	6938.9	7507.7	8095.3	8646.2	9235.0	9803.4	10319.9	10813.6	11277.4	11674.3	12002.1
-52.5°	5987.3	6485.0	6961.9	7421.7	7894.8	8329.5	8723.9	9136.1	9508.8	9827.3	10090.1
-55°	5185.9	5570.7	5933.0	6324.9	6706.3	7056.3	7381.9	7705.2	7988.2	8229.9	8429.2
-57.5°	4451.2	4759.0	5061.2	5372.1	5660.0	5923.7	6192.1	6450.8	6677.1	6870.2	7029.2
-60°	3778.4	4022.2	4283.9	4530.7	4759.0	4968.5	5185.9	5379.5	5548.8	5693.1	5811.9
-62.5°	3167.1	3376.4	3584.5	3778.4	3957.5	4133.8	4304.8	4457.0	4590.0	4703.2	4796.4
-65°	2627.2	2799.0	2960.0	3109.9	3249.2	3396.5	3529.6	3647.9	3751.2	3839.1	3911.4
-67.5°	2140.0	2275.2	2401.9	2519.6	2637.9	2750.6	2852.3	2942.7	3021.6	3088.7	3143.8
-70°	1694.0	1799.0	1897.3	1993.3	2089.1	2176.5	2255.4	2325.4	2386.5	2438.5	2481.2
-72.5°	1294.1	1370.3	1445.0	1524.4	1597.6	1664.3	1724.4	1777.8	1824.4	1864.0	1896.5
-75°	945.2	1002.0	1062.8	1119.3	1171.4	1218.8	1261.5	1299.5	1332.5	1360.6	1383.7
-77.5°	651.8	696.0	737.4	775.7	811.0	843.2	872.1	897.8	920.2	939.3	954.9
-80°	416.1	443.5	469.1	492.9	514.7	534.7	552.6	568.5	582.4	594.2	603.8
-82.5°	236.3	250.1	263.1	275.1	286.1	296.2	305.2	313.3	320.3	326.2	331.1
-85°	112.1	117.1	121.8	126.2	130.3	133.9	137.2	140.1	142.7	144.9	146.6
-87.5°	37.4	38.5	39.6	40.5	41.4	42.2	42.9	43.6	44.1	44.6	45.0
-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: P701468 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-70-7F-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°	45.3	45.5	45.7	45.7	45.7	45.5	45.3	45.0	44.6	44.1	43.6
85°	148.0	149.0	149.6	149.8	149.6	149.0	148.0	146.6	144.9	142.7	140.1
82.5°	334.9	337.6	339.3	339.8	339.3	337.6	334.9	331.1	326.2	320.3	313.3
80°	611.4	616.8	620.0	621.1	620.0	616.8	611.4	603.8	594.2	582.4	568.5
77.5°	967.1	975.8	981.1	982.8	981.1	975.8	967.1	954.9	939.3	920.2	897.8
75°	1401.7	1414.6	1422.3	1424.9	1422.3	1414.6	1401.7	1383.7	1360.6	1332.5	1299.5
72.5°	1921.9	1940.0	1951.0	1954.6	1951.0	1940.0	1921.9	1896.5	1864.0	1824.4	1777.8
70°	2514.5	2538.4	2552.7	2557.5	2552.7	2538.4	2514.5	2481.2	2438.5	2386.5	2325.4
67.5°	3186.9	3217.8	3236.3	3242.5	3236.3	3217.8	3186.9	3143.8	3088.7	3021.6	2942.7
65°	3967.9	4008.3	4032.7	4040.8	4032.7	4008.3	3967.9	3911.4	3839.1	3751.2	3647.9
62.5°	4869.3	4921.4	4952.8	4963.3	4952.8	4921.4	4869.3	4796.4	4703.2	4590.0	4457.0
60°	5904.7	5971.3	6011.3	6024.7	6011.3	5971.3	5904.7	5811.9	5693.1	5548.8	5379.5
57.5°	7153.6	7242.8	7296.5	7314.4	7296.5	7242.8	7153.6	7029.2	6870.2	6677.1	6450.8
55°	8585.1	8697.0	8764.3	8786.8	8764.3	8697.0	8585.1	8429.2	8229.9	7988.2	7705.2
52.5°	10295.9	10443.7	10532.7	10562.4	10532.7	10443.7	10295.9	10090.1	9827.3	9508.8	9136.1
50°	12259.0	12443.6	12554.8	12591.9	12554.8	12443.6	12259.0	12002.1	11674.3	11277.4	10813.6
47.5°	14544.6	14780.6	14922.9	14970.4	14922.9	14780.6	14544.6	14216.3	13797.8	13291.8	12701.2
45°	17159.3	17453.6	17631.1	17690.4	17631.1	17453.6	17159.3	16750.4	16229.7	15600.9	14881.0
42.5°	20179.4	20552.3	20777.4	20852.6	20777.4	20552.3	20179.4	19661.7	19003.4	18209.7	17342.9
40°	23536.9	23986.6	24258.2	24349.0	24258.2	23986.6	23536.9	22913.4	22121.9	21169.4	20139.0
37.5°	27291.1	27844.6	28179.2	28291.2	28179.2	27844.6	27291.1	26524.8	25553.8	24387.8	23186.0
35°	31433.2	32101.1	32505.3	32640.7	32505.3	32101.1	31433.2	30510.2	29343.4	27978.3	26515.9
32.5°	35981.7	36790.5	37280.8	37445.1	37280.8	36790.5	35981.7	34866.5	33460.5	31863.2	30114.8
30°	40625.0	41510.9	42049.0	42229.5	42049.0	41510.9	40625.0	39406.8	37876.2	36050.0	33955.6
27.5°	45470.3	46523.9	47165.5	47381.0	47165.5	46523.9	45470.3	44026.5	42220.7	40234.8	37970.7
25°	50665.9	51935.9	52711.7	52972.7	52711.7	51935.9	50665.9	48933.4	46824.5	44486.8	41865.6
22.5°	56048.1	57499.7	58390.2	58690.5	58390.2	57499.7	56048.1	54079.1	51674.4	48893.6	45892.7
20°	61337.6	62923.4	63901.9	64232.9	63901.9	62923.4	61337.6	59203.2	56521.2	53397.6	49982.4
17.5°	66470.3	68279.8	69405.6	69788.1	69405.6	68279.8	66470.3	64060.6	61148.0	57787.2	53994.6
15°	71300.1	73147.9	74311.4	74709.4	74311.4	73147.9	71300.1	68757.4	65492.2	61815.1	57787.2
12.5°	75563.3	77540.5	78719.3	79108.3	78719.3	77540.5	75563.3	72823.7	69550.4	65492.2	61148.0
10°	79144.9	81203.1	82434.6	82858.7	82434.6	81203.1	79144.9	76393.1	72823.7	68757.4	64060.6
7.5°	82035.5	84131.6	85434.3	85853.7	85434.3	84131.6	82035.5	79144.9	75563.3	71300.1	66470.3
5°	84131.6	86304.2	87565.3	88032.1	87565.3	86304.2	84131.6	81203.1	77540.5	73147.9	68279.8
2.5°	85434.3	87565.3	88878.7	89324.5	88878.7	87565.3	85434.3	82434.6	78719.3	74311.4	69405.6
0°	85853.7	88032.1	89324.5	89824.1	89324.5	88032.1	85853.7	82858.7	79108.3	74709.4	69788.1
-2.5°	85434.3	87565.3	88878.7	89324.5	88878.7	87565.3	85434.3	82434.6	78719.3	74311.4	69405.6
-5°	84131.6	86304.2	87565.3	88032.1	87565.3	86304.2	84131.6	81203.1	77540.5	73147.9	68279.8
-7.5°	82035.5	84131.6	85434.3	85853.7	85434.3	84131.6	82035.5	79144.9	75563.3	71300.1	66470.3
-10°	79144.9	81203.1	82434.6	82858.7	82434.6	81203.1	79144.9	76393.1	72823.7	68757.4	64060.6
-12.5°	75563.3	77540.5	78719.3	79108.3	78719.3	77540.5	75563.3	72823.7	69550.4	65492.2	61148.0
-15°	71300.1	73147.9	74311.4	74709.4	74311.4	73147.9	71300.1	68757.4	65492.2	61815.1	57787.2
-17.5°	66470.3	68279.8	69405.6	69788.1	69405.6	68279.8	66470.3	64060.6	61148.0	57787.2	53994.6
-20°	61337.6	62923.4	63901.9	64232.9	63901.9	62923.4	61337.6	59203.2	56521.2	53397.6	49982.4



REPORT NUMBER: P701468 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	56048.1	57499.7	58390.2	58690.5	58390.2	57499.7	56048.1	54079.1	51674.4	48893.6	45892.7
-25°	50665.9	51935.9	52711.7	52972.7	52711.7	51935.9	50665.9	48933.4	46824.5	44486.8	41865.6
-27.5°	45470.3	46523.9	47165.5	47381.0	47165.5	46523.9	45470.3	44026.5	42220.7	40234.8	37970.7
-30°	40625.0	41510.9	42049.0	42229.5	42049.0	41510.9	40625.0	39406.8	37876.2	36050.0	33955.6
-32.5°	35981.7	36790.5	37280.8	37445.1	37280.8	36790.5	35981.7	34866.5	33460.5	31863.2	30114.8
-35°	31433.2	32101.1	32505.3	32640.7	32505.3	32101.1	31433.2	30510.2	29343.4	27978.3	26515.9
-37.5°	27291.1	27844.6	28179.2	28291.2	28179.2	27844.6	27291.1	26524.8	25553.8	24387.8	23186.0
-40°	23536.9	23986.6	24258.2	24349.0	24258.2	23986.6	23536.9	22913.4	22121.9	21169.4	20139.0
-42.5°	20179.4	20552.3	20777.4	20852.6	20777.4	20552.3	20179.4	19661.7	19003.4	18209.7	17342.9
-45°	17159.3	17453.6	17631.1	17690.4	17631.1	17453.6	17159.3	16750.4	16229.7	15600.9	14881.0
-47.5°	14544.6	14780.6	14922.9	14970.4	14922.9	14780.6	14544.6	14216.3	13797.8	13291.8	12701.2
-50°	12259.0	12443.6	12554.8	12591.9	12554.8	12443.6	12259.0	12002.1	11674.3	11277.4	10813.6
-52.5°	10295.9	10443.7	10532.7	10562.4	10532.7	10443.7	10295.9	10090.1	9827.3	9508.8	9136.1
-55°	8585.1	8697.0	8764.3	8786.8	8764.3	8697.0	8585.1	8429.2	8229.9	7988.2	7705.2
-57.5°	7153.6	7242.8	7296.5	7314.4	7296.5	7242.8	7153.6	7029.2	6870.2	6677.1	6450.8
-60°	5904.7	5971.3	6011.3	6024.7	6011.3	5971.3	5904.7	5811.9	5693.1	5548.8	5379.5
-62.5°	4869.3	4921.4	4952.8	4963.3	4952.8	4921.4	4869.3	4796.4	4703.2	4590.0	4457.0
-65°	3967.9	4008.3	4032.7	4040.8	4032.7	4008.3	3967.9	3911.4	3839.1	3751.2	3647.9
-67.5°	3186.9	3217.8	3236.3	3242.5	3236.3	3217.8	3186.9	3143.8	3088.7	3021.6	2942.7
-70°	2514.5	2538.4	2552.7	2557.5	2552.7	2538.4	2514.5	2481.2	2438.5	2386.5	2325.4
-72.5°	1921.9	1940.0	1951.0	1954.6	1951.0	1940.0	1921.9	1896.5	1864.0	1824.4	1777.8
-75°	1401.7	1414.6	1422.3	1424.9	1422.3	1414.6	1401.7	1383.7	1360.6	1332.5	1299.5
-77.5°	967.1	975.8	981.1	982.8	981.1	975.8	967.1	954.9	939.3	920.2	897.8
-80°	611.4	616.8	620.0	621.1	620.0	616.8	611.4	603.8	594.2	582.4	568.5
-82.5°	334.9	337.6	339.3	339.8	339.3	337.6	334.9	331.1	326.2	320.3	313.3
-85°	148.0	149.0	149.6	149.8	149.6	149.0	148.0	146.6	144.9	142.7	140.1
-87.5°	45.3	45.5	45.7	45.7	45.7	45.5	45.3	45.0	44.6	44.1	43.6
-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):

	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°	42.9	42.2	41.4	40.5	39.6	38.5	37.4	36.3	35.0	33.7	32.3
85°	137.2	133.9	130.3	126.2	121.8	117.1	112.1	106.7	101.0	95.0	88.7
82.5°	305.2	296.2	286.1	275.1	263.1	250.1	236.3	221.5	205.9	189.5	172.3
80°	552.6	534.7	514.7	492.9	469.1	443.5	416.1	386.9	356.0	328.8	305.8
77.5°	872.1	843.2	811.0	775.7	737.4	696.0	651.8	608.4	569.8	529.1	486.5
75°	1261.5	1218.8	1171.4	1119.3	1062.8	1002.0	945.2	888.6	828.8	765.9	700.0
72.5°	1724.4	1664.3	1597.6	1524.4	1445.0	1370.3	1294.1	1213.0	1127.4	1037.5	950.5
70°	2255.4	2176.5	2089.1	1993.3	1897.3	1799.0	1694.0	1582.6	1464.9	1355.2	1247.3
67.5°	2852.3	2750.6	2637.9	2519.6	2401.9	2275.2	2140.0	1996.6	1858.6	1719.0	1573.2
65°	3529.6	3396.5	3249.2	3109.9	2960.0	2799.0	2627.2	2458.6	2289.7	2112.5	1930.8
62.5°	4304.8	4133.8	3957.5	3778.4	3584.5	3376.4	3167.1	2965.6	2753.4	2534.2	2330.0
60°	5185.9	4968.5	4759.0	4530.7	4283.9	4022.2	3778.4	3520.5	3249.2	3004.6	2750.6
57.5°	6192.1	5923.7	5660.0	5372.1	5061.2	4759.0	4451.2	4126.0	3818.9	3509.8	3195.7
55°	7381.9	7056.3	6706.3	6324.9	5933.0	5570.7	5185.9	4803.9	4433.7	4047.0	3698.3
52.5°	8723.9	8329.5	7894.8	7421.7	6961.9	6485.0	5987.3	5548.8	5089.3	4656.4	4224.1
50°	10319.9	9803.4	9235.0	8646.2	8095.3	7507.7	6938.9	6365.7	5811.9	5298.1	4791.4
47.5°	12111.8	11472.3	10769.8	10077.0	9361.0	8630.9	7963.0	7268.2	6626.7	5971.3	5403.2
45°	14153.3	13343.0	12474.8	11654.0	10774.5	9930.4	9068.2	8270.9	7489.8	6758.2	6024.7
42.5°	16442.8	15442.6	14426.5	13392.8	12332.2	11332.5	10315.8	9353.2	8426.1	7566.2	6758.2
40°	19008.1	17754.6	16568.9	15300.9	14076.8	12826.3	11671.7	10510.2	9448.7	8426.1	7489.8
37.5°	21835.5	20391.4	18922.2	17391.9	15947.6	14493.0	13098.4	11785.4	10510.2	9353.2	8270.9
35°	24871.8	23206.0	21463.2	19716.5	17926.5	16274.6	14632.7	13098.4	11671.7	10315.8	9068.2
32.5°	28168.9	26220.2	24140.9	22147.4	20118.7	18122.4	16274.6	14493.0	12826.3	11332.5	9930.4
30°	31716.3	29404.6	27045.6	24648.9	22377.6	20118.7	17926.5	15947.6	14076.8	12332.2	10774.5
27.5°	35449.9	32705.8	30039.0	27323.6	24648.9	22147.4	19716.5	17391.9	15300.9	13392.8	11654.0
25°	39151.5	36211.5	33072.3	30039.0	27045.6	24140.9	21463.2	18922.2	16568.9	14426.5	12474.8
22.5°	42736.1	39550.8	36211.5	32705.8	29404.6	26220.2	23206.0	20391.4	17754.6	15442.6	13343.0
20°	46369.5	42736.1	39151.5	35449.9	31716.3	28168.9	24871.8	21835.5	19008.1	16442.8	14153.3
17.5°	49982.4	45892.7	41865.6	37970.7	33955.6	30114.8	26515.9	23186.0	20139.0	17342.9	14881.0
15°	53397.6	48893.6	44486.8	40234.8	36050.0	31863.2	27978.3	24387.8	21169.4	18209.7	15600.9
12.5°	56521.2	51674.4	46824.5	42220.7	37876.2	33460.5	29343.4	25553.8	22121.9	19003.4	16229.7
10°	59203.2	54079.1	48933.4	44026.5	39406.8	34866.5	30510.2	26524.8	22913.4	19661.7	16750.4
7.5°	61337.6	56048.1	50665.9	45470.3	40625.0	35981.7	31433.2	27291.1	23536.9	20179.4	17159.3
5°	62923.4	57499.7	51935.9	46523.9	41510.9	36790.5	32101.1	27844.6	23986.6	20552.3	17453.6
2.5°	63901.9	58390.2	52711.7	47165.5	42049.0	37280.8	32505.3	28179.2	24258.2	20777.4	17631.1
0°	64232.9	58690.5	52972.7	47381.0	42229.5	37445.1	32640.7	28291.2	24349.0	20852.6	17690.4
-2.5°	63901.9	58390.2	52711.7	47165.5	42049.0	37280.8	32505.3	28179.2	24258.2	20777.4	17631.1
-5°	62923.4	57499.7	51935.9	46523.9	41510.9	36790.5	32101.1	27844.6	23986.6	20552.3	17453.6
-7.5°	61337.6	56048.1	50665.9	45470.3	40625.0	35981.7	31433.2	27291.1	23536.9	20179.4	17159.3
-10°	59203.2	54079.1	48933.4	44026.5	39406.8	34866.5	30510.2	26524.8	22913.4	19661.7	16750.4
-12.5°	56521.2	51674.4	46824.5	42220.7	37876.2	33460.5	29343.4	25553.8	22121.9	19003.4	16229.7
-15°	53397.6	48893.6	44486.8	40234.8	36050.0	31863.2	27978.3	24387.8	21169.4	18209.7	15600.9
-17.5°	49982.4	45892.7	41865.6	37970.7	33955.6	30114.8	26515.9	23186.0	20139.0	17342.9	14881.0
-20°	46369.5	42736.1	39151.5	35449.9	31716.3	28168.9	24871.8	21835.5	19008.1	16442.8	14153.3



REPORT NUMBER: P701468 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	42736.1	39550.8	36211.5	32705.8	29404.6	26220.2	23206.0	20391.4	17754.6	15442.6	13343.0
-25°	39151.5	36211.5	33072.3	30039.0	27045.6	24140.9	21463.2	18922.2	16568.9	14426.5	12474.8
-27.5°	35449.9	32705.8	30039.0	27323.6	24648.9	22147.4	19716.5	17391.9	15300.9	13392.8	11654.0
-30°	31716.3	29404.6	27045.6	24648.9	22377.6	20118.7	17926.5	15947.6	14076.8	12332.2	10774.5
-32.5°	28168.9	26220.2	24140.9	22147.4	20118.7	18122.4	16274.6	14493.0	12826.3	11332.5	9930.4
-35°	24871.8	23206.0	21463.2	19716.5	17926.5	16274.6	14632.7	13098.4	11671.7	10315.8	9068.2
-37.5°	21835.5	20391.4	18922.2	17391.9	15947.6	14493.0	13098.4	11785.4	10510.2	9353.2	8270.9
-40°	19008.1	17754.6	16568.9	15300.9	14076.8	12826.3	11671.7	10510.2	9448.7	8426.1	7489.8
-42.5°	16442.8	15442.6	14426.5	13392.8	12332.2	11332.5	10315.8	9353.2	8426.1	7566.2	6758.2
-45°	14153.3	13343.0	12474.8	11654.0	10774.5	9930.4	9068.2	8270.9	7489.8	6758.2	6024.7
-47.5°	12111.8	11472.3	10769.8	10077.0	9361.0	8630.9	7963.0	7268.2	6626.7	5971.3	5403.2
-50°	10319.9	9803.4	9235.0	8646.2	8095.3	7507.7	6938.9	6365.7	5811.9	5298.1	4791.4
-52.5°	8723.9	8329.5	7894.8	7421.7	6961.9	6485.0	5987.3	5548.8	5089.3	4656.4	4224.1
-55°	7381.9	7056.3	6706.3	6324.9	5933.0	5570.7	5185.9	4803.9	4433.7	4047.0	3698.3
-57.5°	6192.1	5923.7	5660.0	5372.1	5061.2	4759.0	4451.2	4126.0	3818.9	3509.8	3195.7
-60°	5185.9	4968.5	4759.0	4530.7	4283.9	4022.2	3778.4	3520.5	3249.2	3004.6	2750.6
-62.5°	4304.8	4133.8	3957.5	3778.4	3584.5	3376.4	3167.1	2965.6	2753.4	2534.2	2330.0
-65°	3529.6	3396.5	3249.2	3109.9	2960.0	2799.0	2627.2	2458.6	2289.7	2112.5	1930.8
-67.5°	2852.3	2750.6	2637.9	2519.6	2401.9	2275.2	2140.0	1996.6	1858.6	1719.0	1573.2
-70°	2255.4	2176.5	2089.1	1993.3	1897.3	1799.0	1694.0	1582.6	1464.9	1355.2	1247.3
-72.5°	1724.4	1664.3	1597.6	1524.4	1445.0	1370.3	1294.1	1213.0	1127.4	1037.5	950.5
-75°	1261.5	1218.8	1171.4	1119.3	1062.8	1002.0	945.2	888.6	828.8	765.9	700.0
-77.5°	872.1	843.2	811.0	775.7	737.4	696.0	651.8	608.4	569.8	529.1	486.5
-80°	552.6	534.7	514.7	492.9	469.1	443.5	416.1	386.9	356.0	328.8	305.8
-82.5°	305.2	296.2	286.1	275.1	263.1	250.1	236.3	221.5	205.9	189.5	172.3
-85°	137.2	133.9	130.3	126.2	121.8	117.1	112.1	106.7	101.0	95.0	88.7
-87.5°	42.9	42.2	41.4	40.5	39.6	38.5	37.4	36.3	35.0	33.7	32.3
-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-08-0680R-40-70-7F-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°	30.9	29.4	27.8	26.2	24.5	22.8	21.1	19.3	17.5	15.6	13.7
85°	82.2	75.3	68.2	60.9	53.4	45.7	42.2	38.6	34.9	31.2	27.5
82.5°	154.3	142.0	131.4	120.4	109.1	97.4	85.5	73.3	60.8	48.1	41.1
80°	281.8	256.9	231.0	204.2	176.7	149.0	133.1	116.8	100.3	83.4	66.2
77.5°	442.0	395.7	347.8	311.8	277.3	242.0	205.7	168.7	139.4	118.4	97.0
75°	631.3	573.5	515.9	456.5	395.3	334.9	291.4	247.1	201.8	155.8	127.5
72.5°	870.2	786.7	700.4	613.4	542.1	468.9	394.0	324.7	272.0	218.4	164.1
70°	1134.8	1018.2	913.0	811.1	706.4	603.8	518.3	431.0	342.1	280.3	218.4
67.5°	1421.9	1290.5	1154.6	1014.6	891.0	770.3	646.8	543.2	443.4	342.1	272.0
65°	1761.7	1586.5	1408.7	1253.1	1093.3	939.3	802.4	662.9	543.2	431.0	324.7
62.5°	2117.9	1905.0	1705.8	1500.7	1312.6	1132.9	955.4	802.4	646.8	518.3	394.0
60°	2495.4	2255.4	2007.9	1777.8	1548.6	1332.5	1132.9	939.3	770.3	603.8	468.9
57.5°	2909.4	2613.5	2338.5	2063.1	1802.0	1548.6	1312.6	1093.3	891.0	706.4	542.1
55°	3338.0	3005.4	2677.1	2366.4	2063.1	1777.8	1500.7	1253.1	1014.6	811.1	613.4
52.5°	3812.4	3413.6	3037.6	2677.1	2338.5	2007.9	1705.8	1408.7	1154.6	913.0	700.4
50°	4313.2	3850.6	3413.6	3005.4	2613.5	2255.4	1905.0	1586.5	1290.5	1018.2	786.7
47.5°	4836.5	4313.2	3812.4	3338.0	2909.4	2495.4	2117.9	1761.7	1421.9	1134.8	870.2
45°	5403.2	4791.4	4224.1	3698.3	3195.7	2750.6	2330.0	1930.8	1573.2	1247.3	950.5
42.5°	5971.3	5298.1	4656.4	4047.0	3509.8	3004.6	2534.2	2112.5	1719.0	1355.2	1037.5
40°	6626.7	5811.9	5089.3	4433.7	3818.9	3249.2	2753.4	2289.7	1858.6	1464.9	1127.4
37.5°	7268.2	6365.7	5548.8	4803.9	4126.0	3520.5	2965.6	2458.6	1996.6	1582.6	1213.0
35°	7963.0	6938.9	5987.3	5185.9	4451.2	3778.4	3167.1	2627.2	2140.0	1694.0	1294.1
32.5°	8630.9	7507.7	6485.0	5570.7	4759.0	4022.2	3376.4	2799.0	2275.2	1799.0	1370.3
30°	9361.0	8095.3	6961.9	5933.0	5061.2	4283.9	3584.5	2960.0	2401.9	1897.3	1445.0
27.5°	10077.0	8646.2	7421.7	6324.9	5372.1	4530.7	3778.4	3109.9	2519.6	1993.3	1524.4
25°	10769.8	9235.0	7894.8	6706.3	5660.0	4759.0	3957.5	3249.2	2637.9	2089.1	1597.6
22.5°	11472.3	9803.4	8329.5	7056.3	5923.7	4968.5	4133.8	3396.5	2750.6	2176.5	1664.3
20°	12111.8	10319.9	8723.9	7381.9	6192.1	5185.9	4304.8	3529.6	2852.3	2255.4	1724.4
17.5°	12701.2	10813.6	9136.1	7705.2	6450.8	5379.5	4457.0	3647.9	2942.7	2325.4	1777.8
15°	13291.8	11277.4	9508.8	7988.2	6677.1	5548.8	4590.0	3751.2	3021.6	2386.5	1824.4
12.5°	13797.8	11674.3	9827.3	8229.9	6870.2	5693.1	4703.2	3839.1	3088.7	2438.5	1864.0
10°	14216.3	12002.1	10090.1	8429.2	7029.2	5811.9	4796.4	3911.4	3143.8	2481.2	1896.5
7.5°	14544.6	12259.0	10295.9	8585.1	7153.6	5904.7	4869.3	3967.9	3186.9	2514.5	1921.9
5°	14780.6	12443.6	10443.7	8697.0	7242.8	5971.3	4921.4	4008.3	3217.8	2538.4	1940.0
2.5°	14922.9	12554.8	10532.7	8764.3	7296.5	6011.3	4952.8	4032.7	3236.3	2552.7	1951.0
0°	14970.4	12591.9	10562.4	8786.8	7314.4	6024.7	4963.3	4040.8	3242.5	2557.5	1954.6
-2.5°	14922.9	12554.8	10532.7	8764.3	7296.5	6011.3	4952.8	4032.7	3236.3	2552.7	1951.0
-5°	14780.6	12443.6	10443.7	8697.0	7242.8	5971.3	4921.4	4008.3	3217.8	2538.4	1940.0
-7.5°	14544.6	12259.0	10295.9	8585.1	7153.6	5904.7	4869.3	3967.9	3186.9	2514.5	1921.9
-10°	14216.3	12002.1	10090.1	8429.2	7029.2	5811.9	4796.4	3911.4	3143.8	2481.2	1896.5
-12.5°	13797.8	11674.3	9827.3	8229.9	6870.2	5693.1	4703.2	3839.1	3088.7	2438.5	1864.0
-15°	13291.8	11277.4	9508.8	7988.2	6677.1	5548.8	4590.0	3751.2	3021.6	2386.5	1824.4
-17.5°	12701.2	10813.6	9136.1	7705.2	6450.8	5379.5	4457.0	3647.9	2942.7	2325.4	1777.8
-20°	12111.8	10319.9	8723.9	7381.9	6192.1	5185.9	4304.8	3529.6	2852.3	2255.4	1724.4



REPORT NUMBER: P701468 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	11472.3	9803.4	8329.5	7056.3	5923.7	4968.5	4133.8	3396.5	2750.6	2176.5	1664.3
-25°	10769.8	9235.0	7894.8	6706.3	5660.0	4759.0	3957.5	3249.2	2637.9	2089.1	1597.6
-27.5°	10077.0	8646.2	7421.7	6324.9	5372.1	4530.7	3778.4	3109.9	2519.6	1993.3	1524.4
-30°	9361.0	8095.3	6961.9	5933.0	5061.2	4283.9	3584.5	2960.0	2401.9	1897.3	1445.0
-32.5°	8630.9	7507.7	6485.0	5570.7	4759.0	4022.2	3376.4	2799.0	2275.2	1799.0	1370.3
-35°	7963.0	6938.9	5987.3	5185.9	4451.2	3778.4	3167.1	2627.2	2140.0	1694.0	1294.1
-37.5°	7268.2	6365.7	5548.8	4803.9	4126.0	3520.5	2965.6	2458.6	1996.6	1582.6	1213.0
-40°	6626.7	5811.9	5089.3	4433.7	3818.9	3249.2	2753.4	2289.7	1858.6	1464.9	1127.4
-42.5°	5971.3	5298.1	4656.4	4047.0	3509.8	3004.6	2534.2	2112.5	1719.0	1355.2	1037.5
-45°	5403.2	4791.4	4224.1	3698.3	3195.7	2750.6	2330.0	1930.8	1573.2	1247.3	950.5
-47.5°	4836.5	4313.2	3812.4	3338.0	2909.4	2495.4	2117.9	1761.7	1421.9	1134.8	870.2
-50°	4313.2	3850.6	3413.6	3005.4	2613.5	2255.4	1905.0	1586.5	1290.5	1018.2	786.7
-52.5°	3812.4	3413.6	3037.6	2677.1	2338.5	2007.9	1705.8	1408.7	1154.6	913.0	700.4
-55°	3338.0	3005.4	2677.1	2366.4	2063.1	1777.8	1500.7	1253.1	1014.6	811.1	613.4
-57.5°	2909.4	2613.5	2338.5	2063.1	1802.0	1548.6	1312.6	1093.3	891.0	706.4	542.1
-60°	2495.4	2255.4	2007.9	1777.8	1548.6	1332.5	1132.9	939.3	770.3	603.8	468.9
-62.5°	2117.9	1905.0	1705.8	1500.7	1312.6	1132.9	955.4	802.4	646.8	518.3	394.0
-65°	1761.7	1586.5	1408.7	1253.1	1093.3	939.3	802.4	662.9	543.2	431.0	324.7
-67.5°	1421.9	1290.5	1154.6	1014.6	891.0	770.3	646.8	543.2	443.4	342.1	272.0
-70°	1134.8	1018.2	913.0	811.1	706.4	603.8	518.3	431.0	342.1	280.3	218.4
-72.5°	870.2	786.7	700.4	613.4	542.1	468.9	394.0	324.7	272.0	218.4	164.1
-75°	631.3	573.5	515.9	456.5	395.3	334.9	291.4	247.1	201.8	155.8	127.5
-77.5°	442.0	395.7	347.8	311.8	277.3	242.0	205.7	168.7	139.4	118.4	97.0
-80°	281.8	256.9	231.0	204.2	176.7	149.0	133.1	116.8	100.3	83.4	66.2
-82.5°	154.3	142.0	131.4	120.4	109.1	97.4	85.5	73.3	60.8	48.1	41.1
-85°	82.2	75.3	68.2	60.9	53.4	45.7	42.2	38.6	34.9	31.2	27.5
-87.5°	30.9	29.4	27.8	26.2	24.5	22.8	21.1	19.3	17.5	15.6	13.7
-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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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°	11.8	9.9	7.9	6.0	4.0	2.0	0.0
85°	23.6	19.8	15.9	11.9	8.0	4.0	0.0
82.5°	35.4	29.6	23.7	17.8	11.9	6.0	0.0
80°	48.9	39.4	31.6	23.7	15.9	7.9	0.0
77.5°	75.3	53.4	39.4	29.6	19.8	9.9	0.0
75°	101.5	75.3	48.9	35.4	23.6	11.8	0.0
72.5°	127.5	97.0	66.2	41.1	27.5	13.7	0.0
70°	155.8	118.4	83.4	48.1	31.2	15.6	0.0
67.5°	201.8	139.4	100.3	60.8	34.9	17.5	0.0
65°	247.1	168.7	116.8	73.3	38.6	19.3	0.0
62.5°	291.4	205.7	133.1	85.5	42.2	21.1	0.0
60°	334.9	242.0	149.0	97.4	45.7	22.8	0.0
57.5°	395.3	277.3	176.7	109.1	53.4	24.5	0.0
55°	456.5	311.8	204.2	120.4	60.9	26.2	0.0
52.5°	515.9	347.8	231.0	131.4	68.2	27.8	0.0
50°	573.5	395.7	256.9	142.0	75.3	29.4	0.0
47.5°	631.3	442.0	281.8	154.3	82.2	30.9	0.0
45°	700.0	486.5	305.8	172.3	88.7	32.3	0.0
42.5°	765.9	529.1	328.8	189.5	95.0	33.7	0.0
40°	828.8	569.8	356.0	205.9	101.0	35.0	0.0
37.5°	888.6	608.4	386.9	221.5	106.7	36.3	0.0
35°	945.2	651.8	416.1	236.3	112.1	37.4	0.0
32.5°	1002.0	696.0	443.5	250.1	117.1	38.5	0.0
30°	1062.8	737.4	469.1	263.1	121.8	39.6	0.0
27.5°	1119.3	775.7	492.9	275.1	126.2	40.5	0.0
25°	1171.4	811.0	514.7	286.1	130.3	41.4	0.0
22.5°	1218.8	843.2	534.7	296.2	133.9	42.2	0.0
20°	1261.5	872.1	552.6	305.2	137.2	42.9	0.0
17.5°	1299.5	897.8	568.5	313.3	140.1	43.6	0.0
15°	1332.5	920.2	582.4	320.3	142.7	44.1	0.0
12.5°	1360.6	939.3	594.2	326.2	144.9	44.6	0.0
10°	1383.7	954.9	603.8	331.1	146.6	45.0	0.0
7.5°	1401.7	967.1	611.4	334.9	148.0	45.3	0.0
5°	1414.6	975.8	616.8	337.6	149.0	45.5	0.0
2.5°	1422.3	981.1	620.0	339.3	149.6	45.7	0.0
0°	1424.9	982.8	621.1	339.8	149.8	45.7	0.0
-2.5°	1422.3	981.1	620.0	339.3	149.6	45.7	0.0
-5°	1414.6	975.8	616.8	337.6	149.0	45.5	0.0
-7.5°	1401.7	967.1	611.4	334.9	148.0	45.3	0.0
-10°	1383.7	954.9	603.8	331.1	146.6	45.0	0.0
-12.5°	1360.6	939.3	594.2	326.2	144.9	44.6	0.0
-15°	1332.5	920.2	582.4	320.3	142.7	44.1	0.0
-17.5°	1299.5	897.8	568.5	313.3	140.1	43.6	0.0
-20°	1261.5	872.1	552.6	305.2	137.2	42.9	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	1218.8	843.2	534.7	296.2	133.9	42.2	0.0
-25°	1171.4	811.0	514.7	286.1	130.3	41.4	0.0
-27.5°	1119.3	775.7	492.9	275.1	126.2	40.5	0.0
-30°	1062.8	737.4	469.1	263.1	121.8	39.6	0.0
-32.5°	1002.0	696.0	443.5	250.1	117.1	38.5	0.0
-35°	945.2	651.8	416.1	236.3	112.1	37.4	0.0
-37.5°	888.6	608.4	386.9	221.5	106.7	36.3	0.0
-40°	828.8	569.8	356.0	205.9	101.0	35.0	0.0
-42.5°	765.9	529.1	328.8	189.5	95.0	33.7	0.0
-45°	700.0	486.5	305.8	172.3	88.7	32.3	0.0
-47.5°	631.3	442.0	281.8	154.3	82.2	30.9	0.0
-50°	573.5	395.7	256.9	142.0	75.3	29.4	0.0
-52.5°	515.9	347.8	231.0	131.4	68.2	27.8	0.0
-55°	456.5	311.8	204.2	120.4	60.9	26.2	0.0
-57.5°	395.3	277.3	176.7	109.1	53.4	24.5	0.0
-60°	334.9	242.0	149.0	97.4	45.7	22.8	0.0
-62.5°	291.4	205.7	133.1	85.5	42.2	21.1	0.0
-65°	247.1	168.7	116.8	73.3	38.6	19.3	0.0
-67.5°	201.8	139.4	100.3	60.8	34.9	17.5	0.0
-70°	155.8	118.4	83.4	48.1	31.2	15.6	0.0
-72.5°	127.5	97.0	66.2	41.1	27.5	13.7	0.0
-75°	101.5	75.3	48.9	35.4	23.6	11.8	0.0
-77.5°	75.3	53.4	39.4	29.6	19.8	9.9	0.0
-80°	48.9	39.4	31.6	23.7	15.9	7.9	0.0
-82.5°	35.4	29.6	23.7	17.8	11.9	6.0	0.0
-85°	23.6	19.8	15.9	11.9	8.0	4.0	0.0
-87.5°	11.8	9.9	7.9	6.0	4.0	2.0	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

