

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: P701438 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-40-80-7F-HEG-S**

Issue Date: 8/15/2023

Test Information

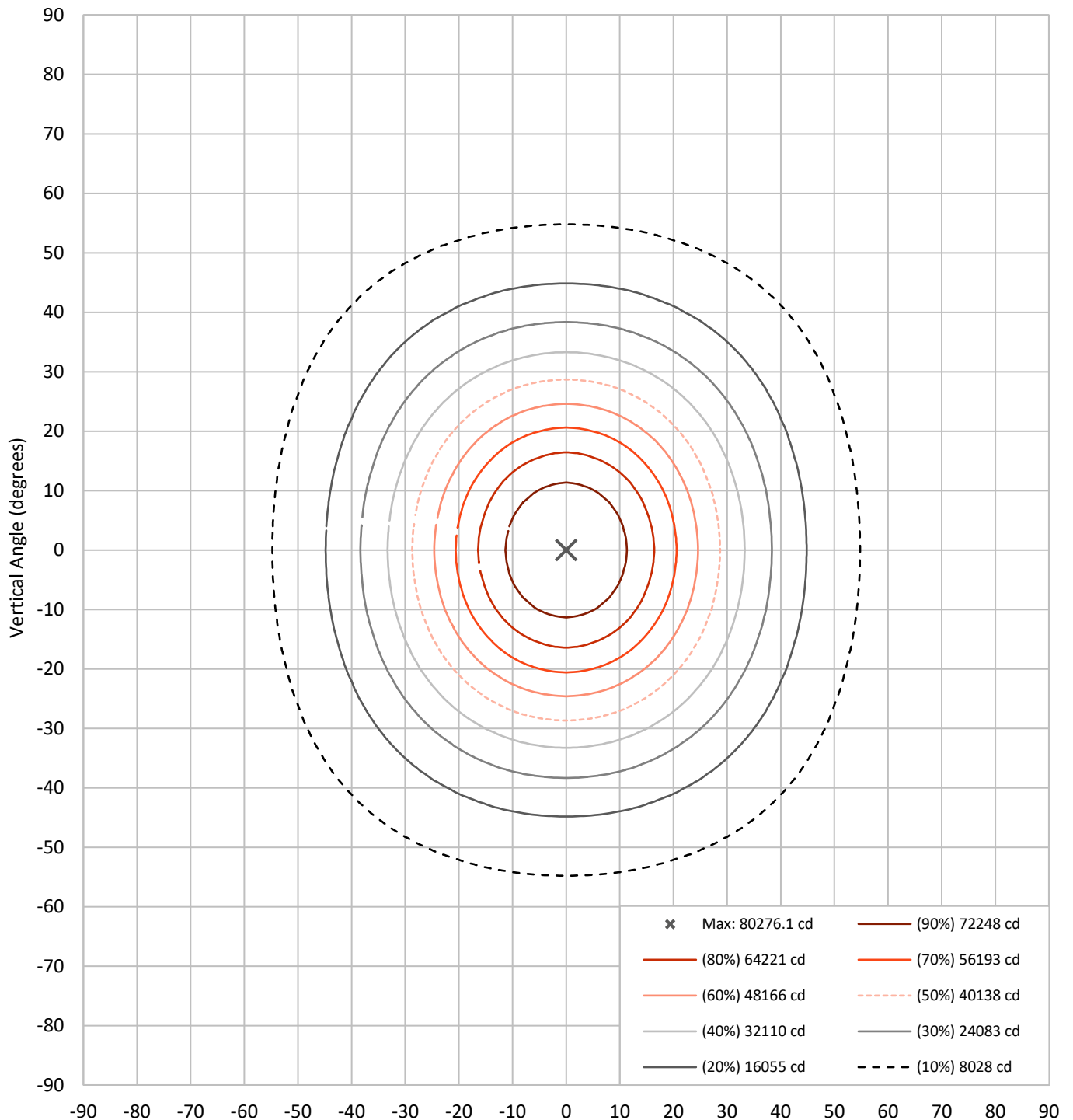
Test Method: LM-79-08
Report Number: P701438 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-7)
Test Lab: INNOVATION CENTER
Issue Date: 8/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0640L-40-80-7F-HEG-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 80 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:	90575.8 lumens	Max Intensity:	80276.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	137.7 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:	44608.6 lumens	Field Lumens:	82171.8 lumens
Beam Efficiency:	49.2%	Field Efficiency:	90.7%
Input Watts (W):	658		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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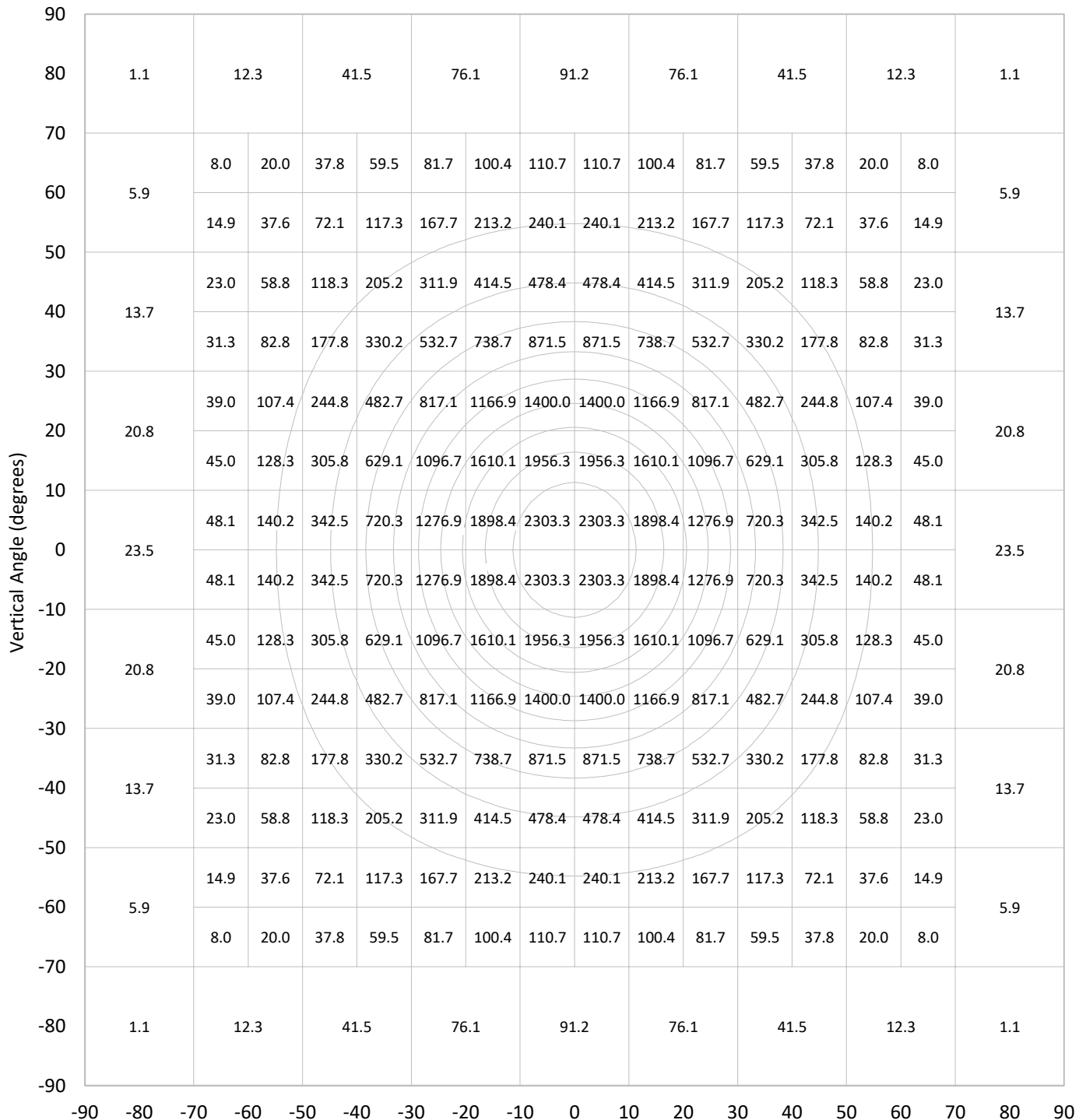
Iso-Candela Plot





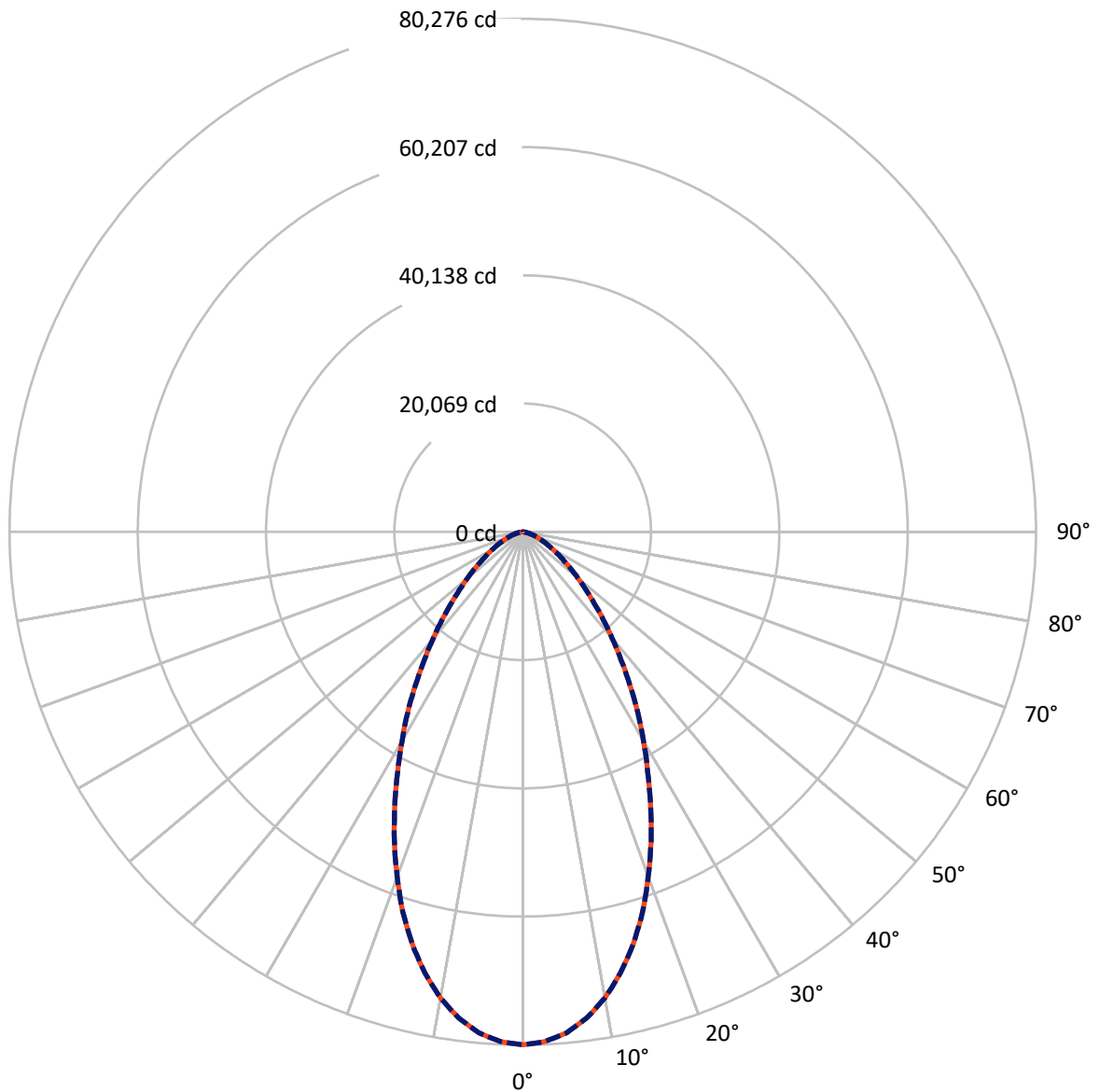
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Lumen Table



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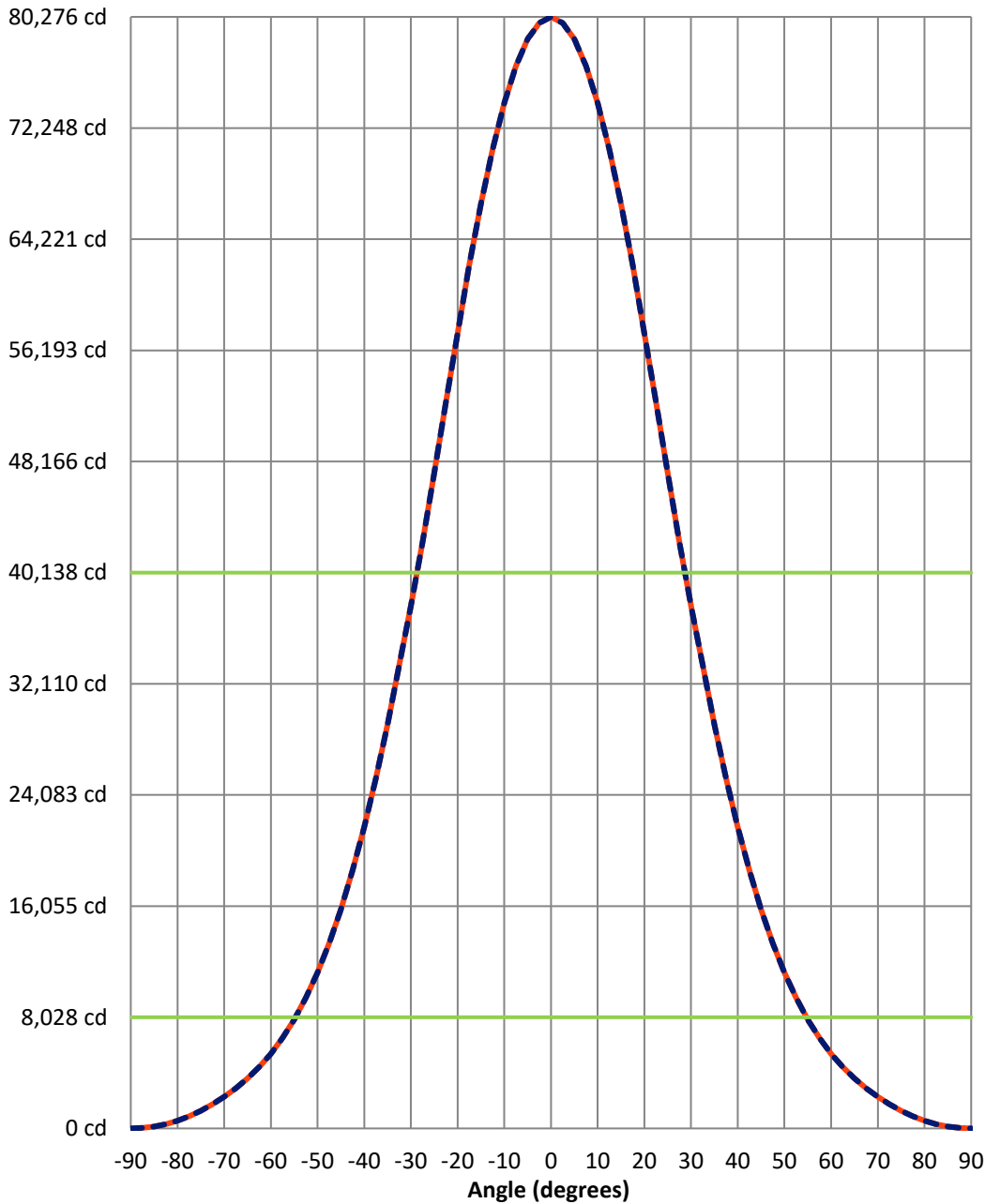
Luminous Intensity Polar Plot



— 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: 44608.6
 Efficiency: 49.2%

Field:
 H Angle: 109.4°
 V Angle: 109.4°
 Lumens: 82171.8
 Efficiency: 90.7%

Spill:
 Lumens: 8404
 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	1.8	3.6	5.3	7.1	8.8	10.6	12.3	14.0	15.6	17.2
85°	0.0	3.6	7.1	10.6	14.2	17.6	21.1	24.5	27.9	31.2	34.4
82.5°	0.0	5.3	10.6	15.9	21.2	26.4	31.6	36.7	43.0	54.3	65.5
80°	0.0	7.1	14.2	21.2	28.2	35.2	43.6	59.2	74.5	89.6	104.4
77.5°	0.0	8.8	17.6	26.4	35.2	47.7	67.3	86.7	105.8	124.6	150.8
75°	0.0	10.6	21.1	31.6	43.6	67.3	90.7	113.9	139.2	180.4	220.8
72.5°	0.0	12.3	24.5	36.7	59.2	86.7	113.9	146.7	195.2	243.1	290.2
70°	0.0	14.0	27.9	43.0	74.5	105.8	139.2	195.2	250.6	305.8	385.2
67.5°	0.0	15.6	31.2	54.3	89.6	124.6	180.4	243.1	305.8	396.3	485.4
65°	0.0	17.2	34.4	65.5	104.4	150.8	220.8	290.2	385.2	485.4	592.4
62.5°	0.0	18.8	37.6	76.4	119.0	183.9	260.5	352.1	463.2	578.1	717.1
60°	0.0	20.4	40.8	87.1	133.2	216.3	299.3	419.1	539.7	688.4	839.4
57.5°	0.0	21.9	47.7	97.5	157.9	247.9	353.3	484.5	631.3	796.3	977.0
55°	0.0	23.4	54.4	107.6	182.5	278.7	408.0	548.3	724.9	906.7	1119.9
52.5°	0.0	24.8	61.0	117.4	206.4	310.9	461.1	625.9	815.9	1031.8	1258.9
50°	0.0	26.2	67.3	126.9	229.6	353.7	512.5	703.1	909.9	1153.3	1417.9
47.5°	0.0	27.6	73.4	137.9	251.9	395.0	564.2	777.6	1014.2	1270.8	1574.5
45°	0.0	28.8	79.3	154.0	273.3	434.8	625.6	849.4	1114.6	1406.0	1725.6
42.5°	0.0	30.1	84.9	169.4	293.9	472.9	684.5	927.2	1211.1	1536.3	1888.0
40°	0.0	31.3	90.3	184.1	318.2	509.2	740.7	1007.6	1309.2	1661.1	2046.3
37.5°	0.0	32.4	95.4	198.0	345.8	543.8	794.2	1084.1	1414.3	1784.4	2197.2
35°	0.0	33.4	100.2	211.2	371.9	582.6	844.7	1156.5	1514.0	1912.6	2347.9
32.5°	0.0	34.4	104.7	223.6	396.4	622.1	895.4	1224.6	1607.8	2033.4	2501.4
30°	0.0	35.3	108.9	235.1	419.3	659.0	949.8	1291.4	1695.6	2146.5	2645.3
27.5°	0.0	36.2	112.8	245.9	440.5	693.2	1000.3	1362.4	1781.5	2251.8	2779.3
25°	0.0	37.0	116.4	255.7	460.0	724.8	1046.8	1427.8	1867.1	2357.5	2903.8
22.5°	0.0	37.7	119.7	264.7	477.9	753.5	1089.2	1487.4	1945.2	2458.2	3035.5
20°	0.0	38.3	122.6	272.8	493.9	779.4	1127.4	1541.2	2015.7	2549.1	3154.4
17.5°	0.0	38.9	125.3	280.0	508.1	802.4	1161.3	1588.9	2078.2	2629.9	3260.1
15°	0.0	39.4	127.5	286.2	520.5	822.4	1190.8	1630.5	2132.8	2700.3	3352.4
12.5°	0.0	39.8	129.5	291.6	531.0	839.4	1215.9	1665.9	2179.2	2760.3	3431.0
10°	0.0	40.2	131.1	295.9	539.7	853.4	1236.6	1695.0	2217.4	2809.6	3495.6
7.5°	0.0	40.5	132.3	299.3	546.4	864.3	1252.6	1717.6	2247.2	2848.1	3546.1
5°	0.0	40.6	133.2	301.8	551.2	872.1	1264.2	1733.9	2268.5	2875.7	3582.3
2.5°	0.0	40.8	133.7	303.2	554.1	876.7	1271.1	1743.6	2281.3	2892.3	3604.0
0°	0.0	40.8	133.9	303.7	555.1	878.3	1273.4	1746.9	2285.6	2897.8	3611.3
-2.5°	0.0	40.8	133.7	303.2	554.1	876.7	1271.1	1743.6	2281.3	2892.3	3604.0
-5°	0.0	40.6	133.2	301.8	551.2	872.1	1264.2	1733.9	2268.5	2875.7	3582.3
-7.5°	0.0	40.5	132.3	299.3	546.4	864.3	1252.6	1717.6	2247.2	2848.1	3546.1
-10°	0.0	40.2	131.1	295.9	539.7	853.4	1236.6	1695.0	2217.4	2809.6	3495.6
-12.5°	0.0	39.8	129.5	291.6	531.0	839.4	1215.9	1665.9	2179.2	2760.3	3431.0
-15°	0.0	39.4	127.5	286.2	520.5	822.4	1190.8	1630.5	2132.8	2700.3	3352.4
-17.5°	0.0	38.9	125.3	280.0	508.1	802.4	1161.3	1588.9	2078.2	2629.9	3260.1
-20°	0.0	38.3	122.6	272.8	493.9	779.4	1127.4	1541.2	2015.7	2549.1	3154.4



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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	37.7	119.7	264.7	477.9	753.5	1089.2	1487.4	1945.2	2458.2	3035.5
-25°	0.0	37.0	116.4	255.7	460.0	724.8	1046.8	1427.8	1867.1	2357.5	2903.8
-27.5°	0.0	36.2	112.8	245.9	440.5	693.2	1000.3	1362.4	1781.5	2251.8	2779.3
-30°	0.0	35.3	108.9	235.1	419.3	659.0	949.8	1291.4	1695.6	2146.5	2645.3
-32.5°	0.0	34.4	104.7	223.6	396.4	622.1	895.4	1224.6	1607.8	2033.4	2501.4
-35°	0.0	33.4	100.2	211.2	371.9	582.6	844.7	1156.5	1514.0	1912.6	2347.9
-37.5°	0.0	32.4	95.4	198.0	345.8	543.8	794.2	1084.1	1414.3	1784.4	2197.2
-40°	0.0	31.3	90.3	184.1	318.2	509.2	740.7	1007.6	1309.2	1661.1	2046.3
-42.5°	0.0	30.1	84.9	169.4	293.9	472.9	684.5	927.2	1211.1	1536.3	1888.0
-45°	0.0	28.8	79.3	154.0	273.3	434.8	625.6	849.4	1114.6	1406.0	1725.6
-47.5°	0.0	27.6	73.4	137.9	251.9	395.0	564.2	777.6	1014.2	1270.8	1574.5
-50°	0.0	26.2	67.3	126.9	229.6	353.7	512.5	703.1	909.9	1153.3	1417.9
-52.5°	0.0	24.8	61.0	117.4	206.4	310.9	461.1	625.9	815.9	1031.8	1258.9
-55°	0.0	23.4	54.4	107.6	182.5	278.7	408.0	548.3	724.9	906.7	1119.9
-57.5°	0.0	21.9	47.7	97.5	157.9	247.9	353.3	484.5	631.3	796.3	977.0
-60°	0.0	20.4	40.8	87.1	133.2	216.3	299.3	419.1	539.7	688.4	839.4
-62.5°	0.0	18.8	37.6	76.4	119.0	183.9	260.5	352.1	463.2	578.1	717.1
-65°	0.0	17.2	34.4	65.5	104.4	150.8	220.8	290.2	385.2	485.4	592.4
-67.5°	0.0	15.6	31.2	54.3	89.6	124.6	180.4	243.1	305.8	396.3	485.4
-70°	0.0	14.0	27.9	43.0	74.5	105.8	139.2	195.2	250.6	305.8	385.2
-72.5°	0.0	12.3	24.5	36.7	59.2	86.7	113.9	146.7	195.2	243.1	290.2
-75°	0.0	10.6	21.1	31.6	43.6	67.3	90.7	113.9	139.2	180.4	220.8
-77.5°	0.0	8.8	17.6	26.4	35.2	47.7	67.3	86.7	105.8	124.6	150.8
-80°	0.0	7.1	14.2	21.2	28.2	35.2	43.6	59.2	74.5	89.6	104.4
-82.5°	0.0	5.3	10.6	15.9	21.2	26.4	31.6	36.7	43.0	54.3	65.5
-85°	0.0	3.6	7.1	10.6	14.2	17.6	21.1	24.5	27.9	31.2	34.4
-87.5°	0.0	1.8	3.6	5.3	7.1	8.8	10.6	12.3	14.0	15.6	17.2
-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°	18.8	20.4	21.9	23.4	24.8	26.2	27.6	28.8	30.1	31.3	32.4
85°	37.6	40.8	47.7	54.4	61.0	67.3	73.4	79.3	84.9	90.3	95.4
82.5°	76.4	87.1	97.5	107.6	117.4	126.9	137.9	154.0	169.4	184.1	198.0
80°	119.0	133.2	157.9	182.5	206.4	229.6	251.9	273.3	293.9	318.2	345.8
77.5°	183.9	216.3	247.9	278.7	310.9	353.7	395.0	434.8	472.9	509.2	543.8
75°	260.5	299.3	353.3	408.0	461.1	512.5	564.2	625.6	684.5	740.7	794.2
72.5°	352.1	419.1	484.5	548.3	625.9	703.1	777.6	849.4	927.2	1007.6	1084.1
70°	463.2	539.7	631.3	724.9	815.9	909.9	1014.2	1114.6	1211.1	1309.2	1414.3
67.5°	578.1	688.4	796.3	906.7	1031.8	1153.3	1270.8	1406.0	1536.3	1661.1	1784.4
65°	717.1	839.4	977.0	1119.9	1258.9	1417.9	1574.5	1725.6	1888.0	2046.3	2197.2
62.5°	853.8	1012.4	1173.0	1341.2	1524.5	1702.6	1892.8	2082.4	2264.8	2460.7	2650.3
60°	1012.4	1190.8	1384.0	1588.9	1794.5	2015.7	2230.1	2458.2	2685.2	2903.8	3146.3
57.5°	1173.0	1384.0	1610.5	1843.8	2090.0	2335.6	2600.1	2856.0	3136.7	3413.0	3687.5
55°	1341.2	1588.9	1843.8	2114.8	2392.5	2685.9	2983.2	3305.2	3616.9	3962.4	4293.3
52.5°	1524.5	1794.5	2090.0	2392.5	2714.6	3050.7	3407.2	3775.1	4161.5	4548.3	4959.0
50°	1702.6	2015.7	2335.6	2685.9	3050.7	3441.3	3854.8	4282.0	4734.9	5194.1	5689.1
47.5°	1892.8	2230.1	2600.1	2983.2	3407.2	3854.8	4322.4	4828.9	5336.6	5922.3	6495.6
45°	2082.4	2458.2	2856.0	3305.2	3775.1	4282.0	4828.9	5384.3	6039.8	6693.6	7391.7
42.5°	2264.8	2685.2	3136.7	3616.9	4161.5	4734.9	5336.6	6039.8	6761.9	7530.4	8359.0
40°	2460.7	2903.8	3413.0	3962.4	4548.3	5194.1	5922.3	6693.6	7530.4	8444.3	9393.0
37.5°	2650.3	3146.3	3687.5	4293.3	4959.0	5689.1	6495.6	7391.7	8359.0	9393.0	10532.6
35°	2830.4	3376.8	3978.1	4634.6	5350.9	6201.3	7116.6	8104.3	9219.2	10431.0	11706.0
32.5°	3017.5	3594.7	4253.1	4978.5	5795.6	6709.6	7713.5	8874.8	10127.9	11462.9	12952.4
30°	3203.5	3828.6	4523.2	5302.3	6221.9	7234.8	8366.0	9629.1	11021.3	12580.5	14252.4
27.5°	3376.8	4049.1	4801.1	5652.5	6632.8	7727.2	9005.8	10415.2	11969.2	13674.5	15543.2
25°	3536.8	4253.1	5058.3	5993.5	7055.6	8253.3	9624.9	11148.7	12893.0	14807.7	16910.8
22.5°	3694.4	4440.4	5294.0	6306.3	7444.1	8761.3	10252.8	11924.7	13801.1	15867.4	18223.8
20°	3847.2	4634.6	5533.9	6597.2	7796.6	9222.9	10824.4	12648.8	14695.0	16987.6	19514.4
17.5°	3983.3	4807.7	5765.1	6886.1	8164.9	9664.1	11351.1	13299.2	15499.4	17998.3	20721.4
15°	4102.1	4959.0	5967.3	7139.1	8498.0	10078.6	11878.9	13942.6	16274.1	18919.1	21795.5
12.5°	4203.3	5087.9	6139.9	7355.1	8782.7	10433.3	12331.2	14504.6	16983.4	19770.4	22837.5
10°	4286.6	5194.1	6282.0	7533.2	9017.5	10726.3	12705.1	14969.9	17571.7	20477.8	23705.3
7.5°	4351.7	5277.1	6393.2	7672.5	9201.5	10955.9	12998.5	15335.4	18034.4	21035.0	24390.1
5°	4398.3	5336.6	6472.9	7772.5	9333.5	11120.8	13209.5	15598.4	18367.6	21436.9	24884.8
2.5°	4426.3	5372.4	6520.9	7832.7	9413.0	11220.2	13336.6	15757.0	18568.8	21679.6	25183.8
0°	4435.7	5384.3	6536.9	7852.8	9439.6	11253.4	13379.1	15810.0	18636.0	21760.8	25283.9
-2.5°	4426.3	5372.4	6520.9	7832.7	9413.0	11220.2	13336.6	15757.0	18568.8	21679.6	25183.8
-5°	4398.3	5336.6	6472.9	7772.5	9333.5	11120.8	13209.5	15598.4	18367.6	21436.9	24884.8
-7.5°	4351.7	5277.1	6393.2	7672.5	9201.5	10955.9	12998.5	15335.4	18034.4	21035.0	24390.1
-10°	4286.6	5194.1	6282.0	7533.2	9017.5	10726.3	12705.1	14969.9	17571.7	20477.8	23705.3
-12.5°	4203.3	5087.9	6139.9	7355.1	8782.7	10433.3	12331.2	14504.6	16983.4	19770.4	22837.5
-15°	4102.1	4959.0	5967.3	7139.1	8498.0	10078.6	11878.9	13942.6	16274.1	18919.1	21795.5
-17.5°	3983.3	4807.7	5765.1	6886.1	8164.9	9664.1	11351.1	13299.2	15499.4	17998.3	20721.4
-20°	3847.2	4634.6	5533.9	6597.2	7796.6	9222.9	10824.4	12648.8	14695.0	16987.6	19514.4



REPORT NUMBER: P701438 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-7F-HEG-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	3694.4	4440.4	5294.0	6306.3	7444.1	8761.3	10252.8	11924.7	13801.1	15867.4	18223.8
-25°	3536.8	4253.1	5058.3	5993.5	7055.6	8253.3	9624.9	11148.7	12893.0	14807.7	16910.8
-27.5°	3376.8	4049.1	4801.1	5652.5	6632.8	7727.2	9005.8	10415.2	11969.2	13674.5	15543.2
-30°	3203.5	3828.6	4523.2	5302.3	6221.9	7234.8	8366.0	9629.1	11021.3	12580.5	14252.4
-32.5°	3017.5	3594.7	4253.1	4978.5	5795.6	6709.6	7713.5	8874.8	10127.9	11462.9	12952.4
-35°	2830.4	3376.8	3978.1	4634.6	5350.9	6201.3	7116.6	8104.3	9219.2	10431.0	11706.0
-37.5°	2650.3	3146.3	3687.5	4293.3	4959.0	5689.1	6495.6	7391.7	8359.0	9393.0	10532.6
-40°	2460.7	2903.8	3413.0	3962.4	4548.3	5194.1	5922.3	6693.6	7530.4	8444.3	9393.0
-42.5°	2264.8	2685.2	3136.7	3616.9	4161.5	4734.9	5336.6	6039.8	6761.9	7530.4	8359.0
-45°	2082.4	2458.2	2856.0	3305.2	3775.1	4282.0	4828.9	5384.3	6039.8	6693.6	7391.7
-47.5°	1892.8	2230.1	2600.1	2983.2	3407.2	3854.8	4322.4	4828.9	5336.6	5922.3	6495.6
-50°	1702.6	2015.7	2335.6	2685.9	3050.7	3441.3	3854.8	4282.0	4734.9	5194.1	5689.1
-52.5°	1524.5	1794.5	2090.0	2392.5	2714.6	3050.7	3407.2	3775.1	4161.5	4548.3	4959.0
-55°	1341.2	1588.9	1843.8	2114.8	2392.5	2685.9	2983.2	3305.2	3616.9	3962.4	4293.3
-57.5°	1173.0	1384.0	1610.5	1843.8	2090.0	2335.6	2600.1	2856.0	3136.7	3413.0	3687.5
-60°	1012.4	1190.8	1384.0	1588.9	1794.5	2015.7	2230.1	2458.2	2685.2	2903.8	3146.3
-62.5°	853.8	1012.4	1173.0	1341.2	1524.5	1702.6	1892.8	2082.4	2264.8	2460.7	2650.3
-65°	717.1	839.4	977.0	1119.9	1258.9	1417.9	1574.5	1725.6	1888.0	2046.3	2197.2
-67.5°	578.1	688.4	796.3	906.7	1031.8	1153.3	1270.8	1406.0	1536.3	1661.1	1784.4
-70°	463.2	539.7	631.3	724.9	815.9	909.9	1014.2	1114.6	1211.1	1309.2	1414.3
-72.5°	352.1	419.1	484.5	548.3	625.9	703.1	777.6	849.4	927.2	1007.6	1084.1
-75°	260.5	299.3	353.3	408.0	461.1	512.5	564.2	625.6	684.5	740.7	794.2
-77.5°	183.9	216.3	247.9	278.7	310.9	353.7	395.0	434.8	472.9	509.2	543.8
-80°	119.0	133.2	157.9	182.5	206.4	229.6	251.9	273.3	293.9	318.2	345.8
-82.5°	76.4	87.1	97.5	107.6	117.4	126.9	137.9	154.0	169.4	184.1	198.0
-85°	37.6	40.8	47.7	54.4	61.0	67.3	73.4	79.3	84.9	90.3	95.4
-87.5°	18.8	20.4	21.9	23.4	24.8	26.2	27.6	28.8	30.1	31.3	32.4
-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: P701438 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-7F-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°	33.4	34.4	35.3	36.2	37.0	37.7	38.3	38.9	39.4	39.8	40.2
85°	100.2	104.7	108.9	112.8	116.4	119.7	122.6	125.3	127.5	129.5	131.1
82.5°	211.2	223.6	235.1	245.9	255.7	264.7	272.8	280.0	286.2	291.6	295.9
80°	371.9	396.4	419.3	440.5	460.0	477.9	493.9	508.1	520.5	531.0	539.7
77.5°	582.6	622.1	659.0	693.2	724.8	753.5	779.4	802.4	822.4	839.4	853.4
75°	844.7	895.4	949.8	1000.3	1046.8	1089.2	1127.4	1161.3	1190.8	1215.9	1236.6
72.5°	1156.5	1224.6	1291.4	1362.4	1427.8	1487.4	1541.2	1588.9	1630.5	1665.9	1695.0
70°	1514.0	1607.8	1695.6	1781.5	1867.1	1945.2	2015.7	2078.2	2132.8	2179.2	2217.4
67.5°	1912.6	2033.4	2146.5	2251.8	2357.5	2458.2	2549.1	2629.9	2700.3	2760.3	2809.6
65°	2347.9	2501.4	2645.3	2779.3	2903.8	3035.5	3154.4	3260.1	3352.4	3431.0	3495.6
62.5°	2830.4	3017.5	3203.5	3376.8	3536.8	3694.4	3847.2	3983.3	4102.1	4203.3	4286.6
60°	3376.8	3594.7	3828.6	4049.1	4253.1	4440.4	4634.6	4807.7	4959.0	5087.9	5194.1
57.5°	3978.1	4253.1	4523.2	4801.1	5058.3	5294.0	5533.9	5765.1	5967.3	6139.9	6282.0
55°	4634.6	4978.5	5302.3	5652.5	5993.5	6306.3	6597.2	6886.1	7139.1	7355.1	7533.2
52.5°	5350.9	5795.6	6221.9	6632.8	7055.6	7444.1	7796.6	8164.9	8498.0	8782.7	9017.5
50°	6201.3	6709.6	7234.8	7727.2	8253.3	8761.3	9222.9	9664.1	10078.6	10433.3	10726.3
47.5°	7116.6	7713.5	8366.0	9005.8	9624.9	10252.8	10824.4	11351.1	11878.9	12331.2	12705.1
45°	8104.3	8874.8	9629.1	10415.2	11148.7	11924.7	12648.8	13299.2	13942.6	14504.6	14969.9
42.5°	9219.2	10127.9	11021.3	11969.2	12893.0	13801.1	14695.0	15499.4	16274.1	16983.4	17571.7
40°	10431.0	11462.9	12580.5	13674.5	14807.7	15867.4	16987.6	17998.3	18919.1	19770.4	20477.8
37.5°	11706.0	12952.4	14252.4	15543.2	16910.8	18223.8	19514.4	20721.4	21795.5	22837.5	23705.3
35°	13077.3	14544.7	16021.0	17620.7	19181.7	20739.2	22228.0	23697.3	25004.2	26224.3	27267.1
32.5°	14544.7	16196.1	17980.1	19793.2	21574.8	23433.1	25174.6	26913.7	28476.3	29903.7	31160.3
30°	16021.0	17980.1	19998.9	22028.8	24170.7	26279.0	28344.9	30346.2	32218.0	33850.0	35218.0
27.5°	17620.7	19793.2	22028.8	24419.1	26846.0	29229.3	31681.7	33934.5	35957.9	37732.7	39346.6
25°	19181.7	21574.8	24170.7	26846.0	29556.8	32362.4	34989.8	37415.4	39757.9	41847.2	43731.8
22.5°	20739.2	23433.1	26279.0	29229.3	32362.4	35346.6	38193.3	41014.4	43696.3	46181.5	48330.6
20°	22228.0	25174.6	28344.9	31681.7	34989.8	38193.3	41440.5	44669.4	47721.5	50513.1	52910.0
17.5°	23697.3	26913.7	30346.2	33934.5	37415.4	41014.4	44669.4	48255.1	51644.6	54648.1	57251.1
15°	25004.2	28476.3	32218.0	35957.9	39757.9	43696.3	47721.5	51644.6	55244.3	58530.5	61448.6
12.5°	26224.3	29903.7	33850.0	37732.7	41847.2	46181.5	50513.1	54648.1	58530.5	62157.4	65082.8
10°	27267.1	31160.3	35218.0	39346.6	43731.8	48330.6	52910.0	57251.1	61448.6	65082.8	68272.7
7.5°	28091.9	32156.9	36306.6	40636.9	45280.3	50090.3	54817.6	59404.7	63721.0	67531.2	70732.0
5°	28688.8	32879.7	37098.4	41578.5	46415.2	51387.6	56234.8	61021.9	65372.5	69298.1	72571.4
2.5°	29050.1	33318.0	37579.3	42151.9	47108.5	52183.4	57109.3	62028.0	66412.3	70351.6	73672.0
0°	29171.1	33464.8	37740.6	42344.5	47341.8	52451.8	57405.1	62369.8	66768.0	70699.3	74051.0
-2.5°	29050.1	33318.0	37579.3	42151.9	47108.5	52183.4	57109.3	62028.0	66412.3	70351.6	73672.0
-5°	28688.8	32879.7	37098.4	41578.5	46415.2	51387.6	56234.8	61021.9	65372.5	69298.1	72571.4
-7.5°	28091.9	32156.9	36306.6	40636.9	45280.3	50090.3	54817.6	59404.7	63721.0	67531.2	70732.0
-10°	27267.1	31160.3	35218.0	39346.6	43731.8	48330.6	52910.0	57251.1	61448.6	65082.8	68272.7
-12.5°	26224.3	29903.7	33850.0	37732.7	41847.2	46181.5	50513.1	54648.1	58530.5	62157.4	65082.8
-15°	25004.2	28476.3	32218.0	35957.9	39757.9	43696.3	47721.5	51644.6	55244.3	58530.5	61448.6
-17.5°	23697.3	26913.7	30346.2	33934.5	37415.4	41014.4	44669.4	48255.1	51644.6	54648.1	57251.1
-20°	22228.0	25174.6	28344.9	31681.7	34989.8	38193.3	41440.5	44669.4	47721.5	50513.1	52910.0



REPORT NUMBER: P701438 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-7F-HEG-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	20739.2	23433.1	26279.0	29229.3	32362.4	35346.6	38193.3	41014.4	43696.3	46181.5	48330.6
-25°	19181.7	21574.8	24170.7	26846.0	29556.8	32362.4	34989.8	37415.4	39757.9	41847.2	43731.8
-27.5°	17620.7	19793.2	22028.8	24419.1	26846.0	29229.3	31681.7	33934.5	35957.9	37732.7	39346.6
-30°	16021.0	17980.1	19998.9	22028.8	24170.7	26279.0	28344.9	30346.2	32218.0	33850.0	35218.0
-32.5°	14544.7	16196.1	17980.1	19793.2	21574.8	23433.1	25174.6	26913.7	28476.3	29903.7	31160.3
-35°	13077.3	14544.7	16021.0	17620.7	19181.7	20739.2	22228.0	23697.3	25004.2	26224.3	27267.1
-37.5°	11706.0	12952.4	14252.4	15543.2	16910.8	18223.8	19514.4	20721.4	21795.5	22837.5	23705.3
-40°	10431.0	11462.9	12580.5	13674.5	14807.7	15867.4	16987.6	17998.3	18919.1	19770.4	20477.8
-42.5°	9219.2	10127.9	11021.3	11969.2	12893.0	13801.1	14695.0	15499.4	16274.1	16983.4	17571.7
-45°	8104.3	8874.8	9629.1	10415.2	11148.7	11924.7	12648.8	13299.2	13942.6	14504.6	14969.9
-47.5°	7116.6	7713.5	8366.0	9005.8	9624.9	10252.8	10824.4	11351.1	11878.9	12331.2	12705.1
-50°	6201.3	6709.6	7234.8	7727.2	8253.3	8761.3	9222.9	9664.1	10078.6	10433.3	10726.3
-52.5°	5350.9	5795.6	6221.9	6632.8	7055.6	7444.1	7796.6	8164.9	8498.0	8782.7	9017.5
-55°	4634.6	4978.5	5302.3	5652.5	5993.5	6306.3	6597.2	6886.1	7139.1	7355.1	7533.2
-57.5°	3978.1	4253.1	4523.2	4801.1	5058.3	5294.0	5533.9	5765.1	5967.3	6139.9	6282.0
-60°	3376.8	3594.7	3828.6	4049.1	4253.1	4440.4	4634.6	4807.7	4959.0	5087.9	5194.1
-62.5°	2830.4	3017.5	3203.5	3376.8	3536.8	3694.4	3847.2	3983.3	4102.1	4203.3	4286.6
-65°	2347.9	2501.4	2645.3	2779.3	2903.8	3035.5	3154.4	3260.1	3352.4	3431.0	3495.6
-67.5°	1912.6	2033.4	2146.5	2251.8	2357.5	2458.2	2549.1	2629.9	2700.3	2760.3	2809.6
-70°	1514.0	1607.8	1695.6	1781.5	1867.1	1945.2	2015.7	2078.2	2132.8	2179.2	2217.4
-72.5°	1156.5	1224.6	1291.4	1362.4	1427.8	1487.4	1541.2	1588.9	1630.5	1665.9	1695.0
-75°	844.7	895.4	949.8	1000.3	1046.8	1089.2	1127.4	1161.3	1190.8	1215.9	1236.6
-77.5°	582.6	622.1	659.0	693.2	724.8	753.5	779.4	802.4	822.4	839.4	853.4
-80°	371.9	396.4	419.3	440.5	460.0	477.9	493.9	508.1	520.5	531.0	539.7
-82.5°	211.2	223.6	235.1	245.9	255.7	264.7	272.8	280.0	286.2	291.6	295.9
-85°	100.2	104.7	108.9	112.8	116.4	119.7	122.6	125.3	127.5	129.5	131.1
-87.5°	33.4	34.4	35.3	36.2	37.0	37.7	38.3	38.9	39.4	39.8	40.2
-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: P701438 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-7F-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°	40.5	40.6	40.8	40.8	40.8	40.6	40.5	40.2	39.8	39.4	38.9
85°	132.3	133.2	133.7	133.9	133.7	133.2	132.3	131.1	129.5	127.5	125.3
82.5°	299.3	301.8	303.2	303.7	303.2	301.8	299.3	295.9	291.6	286.2	280.0
80°	546.4	551.2	554.1	555.1	554.1	551.2	546.4	539.7	531.0	520.5	508.1
77.5°	864.3	872.1	876.7	878.3	876.7	872.1	864.3	853.4	839.4	822.4	802.4
75°	1252.6	1264.2	1271.1	1273.4	1271.1	1264.2	1252.6	1236.6	1215.9	1190.8	1161.3
72.5°	1717.6	1733.9	1743.6	1746.9	1743.6	1733.9	1717.6	1695.0	1665.9	1630.5	1588.9
70°	2247.2	2268.5	2281.3	2285.6	2281.3	2268.5	2247.2	2217.4	2179.2	2132.8	2078.2
67.5°	2848.1	2875.7	2892.3	2897.8	2892.3	2875.7	2848.1	2809.6	2760.3	2700.3	2629.9
65°	3546.1	3582.3	3604.0	3611.3	3604.0	3582.3	3546.1	3495.6	3431.0	3352.4	3260.1
62.5°	4351.7	4398.3	4426.3	4435.7	4426.3	4398.3	4351.7	4286.6	4203.3	4102.1	3983.3
60°	5277.1	5336.6	5372.4	5384.3	5372.4	5336.6	5277.1	5194.1	5087.9	4959.0	4807.7
57.5°	6393.2	6472.9	6520.9	6536.9	6520.9	6472.9	6393.2	6282.0	6139.9	5967.3	5765.1
55°	7672.5	7772.5	7832.7	7852.8	7832.7	7772.5	7672.5	7533.2	7355.1	7139.1	6886.1
52.5°	9201.5	9333.5	9413.0	9439.6	9413.0	9333.5	9201.5	9017.5	8782.7	8498.0	8164.9
50°	10955.9	11120.8	11220.2	11253.4	11220.2	11120.8	10955.9	10726.3	10433.3	10078.6	9664.1
47.5°	12998.5	13209.5	13336.6	13379.1	13336.6	13209.5	12998.5	12705.1	12331.2	11878.9	11351.1
45°	15335.4	15598.4	15757.0	15810.0	15757.0	15598.4	15335.4	14969.9	14504.6	13942.6	13299.2
42.5°	18034.4	18367.6	18568.8	18636.0	18568.8	18367.6	18034.4	17571.7	16983.4	16274.1	15499.4
40°	21035.0	21436.9	21679.6	21760.8	21679.6	21436.9	21035.0	20477.8	19770.4	18919.1	17998.3
37.5°	24390.1	24884.8	25183.8	25283.9	25183.8	24884.8	24390.1	23705.3	22837.5	21795.5	20721.4
35°	28091.9	28688.8	29050.1	29171.1	29050.1	28688.8	28091.9	27267.1	26224.3	25004.2	23697.3
32.5°	32156.9	32879.7	33318.0	33464.8	33318.0	32879.7	32156.9	31160.3	29903.7	28476.3	26913.7
30°	36306.6	37098.4	37579.3	37740.6	37579.3	37098.4	36306.6	35218.0	33850.0	32218.0	30346.2
27.5°	40636.9	41578.5	42151.9	42344.5	42151.9	41578.5	40636.9	39346.6	37732.7	35957.9	33934.5
25°	45280.3	46415.2	47108.5	47341.8	47108.5	46415.2	45280.3	43731.8	41847.2	39757.9	37415.4
22.5°	50090.3	51387.6	52183.4	52451.8	52183.4	51387.6	50090.3	48330.6	46181.5	43696.3	41014.4
20°	54817.6	56234.8	57109.3	57405.1	57109.3	56234.8	54817.6	52910.0	50513.1	47721.5	44669.4
17.5°	59404.7	61021.9	62028.0	62369.8	62028.0	61021.9	59404.7	57251.1	54648.1	51644.6	48255.1
15°	63721.0	65372.5	66412.3	66768.0	66412.3	65372.5	63721.0	61448.6	58530.5	55244.3	51644.6
12.5°	67531.2	69298.1	70351.6	70699.3	70351.6	69298.1	67531.2	65082.8	62157.4	58530.5	54648.1
10°	70732.0	72571.4	73672.0	74051.0	73672.0	72571.4	70732.0	68272.7	65082.8	61448.6	57251.1
7.5°	73315.3	75188.6	76352.8	76727.6	76352.8	75188.6	73315.3	70732.0	67531.2	63721.0	59404.7
5°	75188.6	77130.3	78257.3	78674.5	78257.3	77130.3	75188.6	72571.4	69298.1	65372.5	61021.9
2.5°	76352.8	78257.3	79431.1	79829.6	79431.1	78257.3	76352.8	73672.0	70351.6	66412.3	62028.0
0°	76727.6	78674.5	79829.6	80276.1	79829.6	78674.5	76727.6	74051.0	70699.3	66768.0	62369.8
-2.5°	76352.8	78257.3	79431.1	79829.6	79431.1	78257.3	76352.8	73672.0	70351.6	66412.3	62028.0
-5°	75188.6	77130.3	78257.3	78674.5	78257.3	77130.3	75188.6	72571.4	69298.1	65372.5	61021.9
-7.5°	73315.3	75188.6	76352.8	76727.6	76352.8	75188.6	73315.3	70732.0	67531.2	63721.0	59404.7
-10°	70732.0	72571.4	73672.0	74051.0	73672.0	72571.4	70732.0	68272.7	65082.8	61448.6	57251.1
-12.5°	67531.2	69298.1	70351.6	70699.3	70351.6	69298.1	67531.2	65082.8	62157.4	58530.5	54648.1
-15°	63721.0	65372.5	66412.3	66768.0	66412.3	65372.5	63721.0	61448.6	58530.5	55244.3	51644.6
-17.5°	59404.7	61021.9	62028.0	62369.8	62028.0	61021.9	59404.7	57251.1	54648.1	51644.6	48255.1
-20°	54817.6	56234.8	57109.3	57405.1	57109.3	56234.8	54817.6	52910.0	50513.1	47721.5	44669.4



REPORT NUMBER: P701438 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-7F-HEG-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	50090.3	51387.6	52183.4	52451.8	52183.4	51387.6	50090.3	48330.6	46181.5	43696.3	41014.4
-25°	45280.3	46415.2	47108.5	47341.8	47108.5	46415.2	45280.3	43731.8	41847.2	39757.9	37415.4
-27.5°	40636.9	41578.5	42151.9	42344.5	42151.9	41578.5	40636.9	39346.6	37732.7	35957.9	33934.5
-30°	36306.6	37098.4	37579.3	37740.6	37579.3	37098.4	36306.6	35218.0	33850.0	32218.0	30346.2
-32.5°	32156.9	32879.7	33318.0	33464.8	33318.0	32879.7	32156.9	31160.3	29903.7	28476.3	26913.7
-35°	28091.9	28688.8	29050.1	29171.1	29050.1	28688.8	28091.9	27267.1	26224.3	25004.2	23697.3
-37.5°	24390.1	24884.8	25183.8	25283.9	25183.8	24884.8	24390.1	23705.3	22837.5	21795.5	20721.4
-40°	21035.0	21436.9	21679.6	21760.8	21679.6	21436.9	21035.0	20477.8	19770.4	18919.1	17998.3
-42.5°	18034.4	18367.6	18568.8	18636.0	18568.8	18367.6	18034.4	17571.7	16983.4	16274.1	15499.4
-45°	15335.4	15598.4	15757.0	15810.0	15757.0	15598.4	15335.4	14969.9	14504.6	13942.6	13299.2
-47.5°	12998.5	13209.5	13336.6	13379.1	13336.6	13209.5	12998.5	12705.1	12331.2	11878.9	11351.1
-50°	10955.9	11120.8	11220.2	11253.4	11220.2	11120.8	10955.9	10726.3	10433.3	10078.6	9664.1
-52.5°	9201.5	9333.5	9413.0	9439.6	9413.0	9333.5	9201.5	9017.5	8782.7	8498.0	8164.9
-55°	7672.5	7772.5	7832.7	7852.8	7832.7	7772.5	7672.5	7533.2	7355.1	7139.1	6886.1
-57.5°	6393.2	6472.9	6520.9	6536.9	6520.9	6472.9	6393.2	6282.0	6139.9	5967.3	5765.1
-60°	5277.1	5336.6	5372.4	5384.3	5372.4	5336.6	5277.1	5194.1	5087.9	4959.0	4807.7
-62.5°	4351.7	4398.3	4426.3	4435.7	4426.3	4398.3	4351.7	4286.6	4203.3	4102.1	3983.3
-65°	3546.1	3582.3	3604.0	3611.3	3604.0	3582.3	3546.1	3495.6	3431.0	3352.4	3260.1
-67.5°	2848.1	2875.7	2892.3	2897.8	2892.3	2875.7	2848.1	2809.6	2760.3	2700.3	2629.9
-70°	2247.2	2268.5	2281.3	2285.6	2281.3	2268.5	2247.2	2217.4	2179.2	2132.8	2078.2
-72.5°	1717.6	1733.9	1743.6	1746.9	1743.6	1733.9	1717.6	1695.0	1665.9	1630.5	1588.9
-75°	1252.6	1264.2	1271.1	1273.4	1271.1	1264.2	1252.6	1236.6	1215.9	1190.8	1161.3
-77.5°	864.3	872.1	876.7	878.3	876.7	872.1	864.3	853.4	839.4	822.4	802.4
-80°	546.4	551.2	554.1	555.1	554.1	551.2	546.4	539.7	531.0	520.5	508.1
-82.5°	299.3	301.8	303.2	303.7	303.2	301.8	299.3	295.9	291.6	286.2	280.0
-85°	132.3	133.2	133.7	133.9	133.7	133.2	132.3	131.1	129.5	127.5	125.3
-87.5°	40.5	40.6	40.8	40.8	40.8	40.6	40.5	40.2	39.8	39.4	38.9
-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: P701438 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-7F-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°	38.3	37.7	37.0	36.2	35.3	34.4	33.4	32.4	31.3	30.1	28.8
85°	122.6	119.7	116.4	112.8	108.9	104.7	100.2	95.4	90.3	84.9	79.3
82.5°	272.8	264.7	255.7	245.9	235.1	223.6	211.2	198.0	184.1	169.4	154.0
80°	493.9	477.9	460.0	440.5	419.3	396.4	371.9	345.8	318.2	293.9	273.3
77.5°	779.4	753.5	724.8	693.2	659.0	622.1	582.6	543.8	509.2	472.9	434.8
75°	1127.4	1089.2	1046.8	1000.3	949.8	895.4	844.7	794.2	740.7	684.5	625.6
72.5°	1541.2	1487.4	1427.8	1362.4	1291.4	1224.6	1156.5	1084.1	1007.6	927.2	849.4
70°	2015.7	1945.2	1867.1	1781.5	1695.6	1607.8	1514.0	1414.3	1309.2	1211.1	1114.6
67.5°	2549.1	2458.2	2357.5	2251.8	2146.5	2033.4	1912.6	1784.4	1661.1	1536.3	1406.0
65°	3154.4	3035.5	2903.8	2779.3	2645.3	2501.4	2347.9	2197.2	2046.3	1888.0	1725.6
62.5°	3847.2	3694.4	3536.8	3376.8	3203.5	3017.5	2830.4	2650.3	2460.7	2264.8	2082.4
60°	4634.6	4440.4	4253.1	4049.1	3828.6	3594.7	3376.8	3146.3	2903.8	2685.2	2458.2
57.5°	5533.9	5294.0	5058.3	4801.1	4523.2	4253.1	3978.1	3687.5	3413.0	3136.7	2856.0
55°	6597.2	6306.3	5993.5	5652.5	5302.3	4978.5	4634.6	4293.3	3962.4	3616.9	3305.2
52.5°	7796.6	7444.1	7055.6	6632.8	6221.9	5795.6	5350.9	4959.0	4548.3	4161.5	3775.1
50°	9222.9	8761.3	8253.3	7727.2	7234.8	6709.6	6201.3	5689.1	5194.1	4734.9	4282.0
47.5°	10824.4	10252.8	9624.9	9005.8	8366.0	7713.5	7116.6	6495.6	5922.3	5336.6	4828.9
45°	12648.8	11924.7	11148.7	10415.2	9629.1	8874.8	8104.3	7391.7	6693.6	6039.8	5384.3
42.5°	14695.0	13801.1	12893.0	11969.2	11021.3	10127.9	9219.2	8359.0	7530.4	6761.9	6039.8
40°	16987.6	15867.4	14807.7	13674.5	12580.5	11462.9	10431.0	9393.0	8444.3	7530.4	6693.6
37.5°	19514.4	18223.8	16910.8	15543.2	14252.4	12952.4	11706.0	10532.6	9393.0	8359.0	7391.7
35°	22228.0	20739.2	19181.7	17620.7	16021.0	14544.7	13077.3	11706.0	10431.0	9219.2	8104.3
32.5°	25174.6	23433.1	21574.8	19793.2	17980.1	16196.1	14544.7	12952.4	11462.9	10127.9	8874.8
30°	28344.9	26279.0	24170.7	22028.8	19998.9	17980.1	16021.0	14252.4	12580.5	11021.3	9629.1
27.5°	31681.7	29229.3	26846.0	24419.1	22028.8	19793.2	17620.7	15543.2	13674.5	11969.2	10415.2
25°	34989.8	32362.4	29556.8	26846.0	24170.7	21574.8	19181.7	16910.8	14807.7	12893.0	11148.7
22.5°	38193.3	35346.6	32362.4	29229.3	26279.0	23433.1	20739.2	18223.8	15867.4	13801.1	11924.7
20°	41440.5	38193.3	34989.8	31681.7	28344.9	25174.6	22228.0	19514.4	16987.6	14695.0	12648.8
17.5°	44669.4	41014.4	37415.4	33934.5	30346.2	26913.7	23697.3	20721.4	17998.3	15499.4	13299.2
15°	47721.5	43696.3	39757.9	35957.9	32218.0	28476.3	25004.2	21795.5	18919.1	16274.1	13942.6
12.5°	50513.1	46181.5	41847.2	37732.7	33850.0	29903.7	26224.3	22837.5	19770.4	16983.4	14504.6
10°	52910.0	48330.6	43731.8	39346.6	35218.0	31160.3	27267.1	23705.3	20477.8	17571.7	14969.9
7.5°	54817.6	50090.3	45280.3	40636.9	36306.6	32156.9	28091.9	24390.1	21035.0	18034.4	15335.4
5°	56234.8	51387.6	46415.2	41578.5	37098.4	32879.7	28688.8	24884.8	21436.9	18367.6	15598.4
2.5°	57109.3	52183.4	47108.5	42151.9	37579.3	33318.0	29050.1	25183.8	21679.6	18568.8	15757.0
0°	57405.1	52451.8	47341.8	42344.5	37740.6	33464.8	29171.1	25283.9	21760.8	18636.0	15810.0
-2.5°	57109.3	52183.4	47108.5	42151.9	37579.3	33318.0	29050.1	25183.8	21679.6	18568.8	15757.0
-5°	56234.8	51387.6	46415.2	41578.5	37098.4	32879.7	28688.8	24884.8	21436.9	18367.6	15598.4
-7.5°	54817.6	50090.3	45280.3	40636.9	36306.6	32156.9	28091.9	24390.1	21035.0	18034.4	15335.4
-10°	52910.0	48330.6	43731.8	39346.6	35218.0	31160.3	27267.1	23705.3	20477.8	17571.7	14969.9
-12.5°	50513.1	46181.5	41847.2	37732.7	33850.0	29903.7	26224.3	22837.5	19770.4	16983.4	14504.6
-15°	47721.5	43696.3	39757.9	35957.9	32218.0	28476.3	25004.2	21795.5	18919.1	16274.1	13942.6
-17.5°	44669.4	41014.4	37415.4	33934.5	30346.2	26913.7	23697.3	20721.4	17998.3	15499.4	13299.2
-20°	41440.5	38193.3	34989.8	31681.7	28344.9	25174.6	22228.0	19514.4	16987.6	14695.0	12648.8



REPORT NUMBER: P701438 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-7F-HEG-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	38193.3	35346.6	32362.4	29229.3	26279.0	23433.1	20739.2	18223.8	15867.4	13801.1	11924.7
-25°	34989.8	32362.4	29556.8	26846.0	24170.7	21574.8	19181.7	16910.8	14807.7	12893.0	11148.7
-27.5°	31681.7	29229.3	26846.0	24419.1	22028.8	19793.2	17620.7	15543.2	13674.5	11969.2	10415.2
-30°	28344.9	26279.0	24170.7	22028.8	19998.9	17980.1	16021.0	14252.4	12580.5	11021.3	9629.1
-32.5°	25174.6	23433.1	21574.8	19793.2	17980.1	16196.1	14544.7	12952.4	11462.9	10127.9	8874.8
-35°	22228.0	20739.2	19181.7	17620.7	16021.0	14544.7	13077.3	11706.0	10431.0	9219.2	8104.3
-37.5°	19514.4	18223.8	16910.8	15543.2	14252.4	12952.4	11706.0	10532.6	9393.0	8359.0	7391.7
-40°	16987.6	15867.4	14807.7	13674.5	12580.5	11462.9	10431.0	9393.0	8444.3	7530.4	6693.6
-42.5°	14695.0	13801.1	12893.0	11969.2	11021.3	10127.9	9219.2	8359.0	7530.4	6761.9	6039.8
-45°	12648.8	11924.7	11148.7	10415.2	9629.1	8874.8	8104.3	7391.7	6693.6	6039.8	5384.3
-47.5°	10824.4	10252.8	9624.9	9005.8	8366.0	7713.5	7116.6	6495.6	5922.3	5336.6	4828.9
-50°	9222.9	8761.3	8253.3	7727.2	7234.8	6709.6	6201.3	5689.1	5194.1	4734.9	4282.0
-52.5°	7796.6	7444.1	7055.6	6632.8	6221.9	5795.6	5350.9	4959.0	4548.3	4161.5	3775.1
-55°	6597.2	6306.3	5993.5	5652.5	5302.3	4978.5	4634.6	4293.3	3962.4	3616.9	3305.2
-57.5°	5533.9	5294.0	5058.3	4801.1	4523.2	4253.1	3978.1	3687.5	3413.0	3136.7	2856.0
-60°	4634.6	4440.4	4253.1	4049.1	3828.6	3594.7	3376.8	3146.3	2903.8	2685.2	2458.2
-62.5°	3847.2	3694.4	3536.8	3376.8	3203.5	3017.5	2830.4	2650.3	2460.7	2264.8	2082.4
-65°	3154.4	3035.5	2903.8	2779.3	2645.3	2501.4	2347.9	2197.2	2046.3	1888.0	1725.6
-67.5°	2549.1	2458.2	2357.5	2251.8	2146.5	2033.4	1912.6	1784.4	1661.1	1536.3	1406.0
-70°	2015.7	1945.2	1867.1	1781.5	1695.6	1607.8	1514.0	1414.3	1309.2	1211.1	1114.6
-72.5°	1541.2	1487.4	1427.8	1362.4	1291.4	1224.6	1156.5	1084.1	1007.6	927.2	849.4
-75°	1127.4	1089.2	1046.8	1000.3	949.8	895.4	844.7	794.2	740.7	684.5	625.6
-77.5°	779.4	753.5	724.8	693.2	659.0	622.1	582.6	543.8	509.2	472.9	434.8
-80°	493.9	477.9	460.0	440.5	419.3	396.4	371.9	345.8	318.2	293.9	273.3
-82.5°	272.8	264.7	255.7	245.9	235.1	223.6	211.2	198.0	184.1	169.4	154.0
-85°	122.6	119.7	116.4	112.8	108.9	104.7	100.2	95.4	90.3	84.9	79.3
-87.5°	38.3	37.7	37.0	36.2	35.3	34.4	33.4	32.4	31.3	30.1	28.8
-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: P701438 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-7F-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°	27.6	26.2	24.8	23.4	21.9	20.4	18.8	17.2	15.6	14.0	12.3
85°	73.4	67.3	61.0	54.4	47.7	40.8	37.6	34.4	31.2	27.9	24.5
82.5°	137.9	126.9	117.4	107.6	97.5	87.1	76.4	65.5	54.3	43.0	36.7
80°	251.9	229.6	206.4	182.5	157.9	133.2	119.0	104.4	89.6	74.5	59.2
77.5°	395.0	353.7	310.9	278.7	247.9	216.3	183.9	150.8	124.6	105.8	86.7
75°	564.2	512.5	461.1	408.0	353.3	299.3	260.5	220.8	180.4	139.2	113.9
72.5°	777.6	703.1	625.9	548.3	484.5	419.1	352.1	290.2	243.1	195.2	146.7
70°	1014.2	909.9	815.9	724.9	631.3	539.7	463.2	385.2	305.8	250.6	195.2
67.5°	1270.8	1153.3	1031.8	906.7	796.3	688.4	578.1	485.4	396.3	305.8	243.1
65°	1574.5	1417.9	1258.9	1119.9	977.0	839.4	717.1	592.4	485.4	385.2	290.2
62.5°	1892.8	1702.6	1524.5	1341.2	1173.0	1012.4	853.8	717.1	578.1	463.2	352.1
60°	2230.1	2015.7	1794.5	1588.9	1384.0	1190.8	1012.4	839.4	688.4	539.7	419.1
57.5°	2600.1	2335.6	2090.0	1843.8	1610.5	1384.0	1173.0	977.0	796.3	631.3	484.5
55°	2983.2	2685.9	2392.5	2114.8	1843.8	1588.9	1341.2	1119.9	906.7	724.9	548.3
52.5°	3407.2	3050.7	2714.6	2392.5	2090.0	1794.5	1524.5	1258.9	1031.8	815.9	625.9
50°	3854.8	3441.3	3050.7	2685.9	2335.6	2015.7	1702.6	1417.9	1153.3	909.9	703.1
47.5°	4322.4	3854.8	3407.2	2983.2	2600.1	2230.1	1892.8	1574.5	1270.8	1014.2	777.6
45°	4828.9	4282.0	3775.1	3305.2	2856.0	2458.2	2082.4	1725.6	1406.0	1114.6	849.4
42.5°	5336.6	4734.9	4161.5	3616.9	3136.7	2685.2	2264.8	1888.0	1536.3	1211.1	927.2
40°	5922.3	5194.1	4548.3	3962.4	3413.0	2903.8	2460.7	2046.3	1661.1	1309.2	1007.6
37.5°	6495.6	5689.1	4959.0	4293.3	3687.5	3146.3	2650.3	2197.2	1784.4	1414.3	1084.1
35°	7116.6	6201.3	5350.9	4634.6	3978.1	3376.8	2830.4	2347.9	1912.6	1514.0	1156.5
32.5°	7713.5	6709.6	5795.6	4978.5	4253.1	3594.7	3017.5	2501.4	2033.4	1607.8	1224.6
30°	8366.0	7234.8	6221.9	5302.3	4523.2	3828.6	3203.5	2645.3	2146.5	1695.6	1291.4
27.5°	9005.8	7727.2	6632.8	5652.5	4801.1	4049.1	3376.8	2779.3	2251.8	1781.5	1362.4
25°	9624.9	8253.3	7055.6	5993.5	5058.3	4253.1	3536.8	2903.8	2357.5	1867.1	1427.8
22.5°	10252.8	8761.3	7444.1	6306.3	5294.0	4440.4	3694.4	3035.5	2458.2	1945.2	1487.4
20°	10824.4	9222.9	7796.6	6597.2	5533.9	4634.6	3847.2	3154.4	2549.1	2015.7	1541.2
17.5°	11351.1	9664.1	8164.9	6886.1	5765.1	4807.7	3983.3	3260.1	2629.9	2078.2	1588.9
15°	11878.9	10078.6	8498.0	7139.1	5967.3	4959.0	4102.1	3352.4	2700.3	2132.8	1630.5
12.5°	12331.2	10433.3	8782.7	7355.1	6139.9	5087.9	4203.3	3431.0	2760.3	2179.2	1665.9
10°	12705.1	10726.3	9017.5	7533.2	6282.0	5194.1	4286.6	3495.6	2809.6	2217.4	1695.0
7.5°	12998.5	10955.9	9201.5	7672.5	6393.2	5277.1	4351.7	3546.1	2848.1	2247.2	1717.6
5°	13209.5	11120.8	9333.5	7772.5	6472.9	5336.6	4398.3	3582.3	2875.7	2268.5	1733.9
2.5°	13336.6	11220.2	9413.0	7832.7	6520.9	5372.4	4426.3	3604.0	2892.3	2281.3	1743.6
0°	13379.1	11253.4	9439.6	7852.8	6536.9	5384.3	4435.7	3611.3	2897.8	2285.6	1746.9
-2.5°	13336.6	11220.2	9413.0	7832.7	6520.9	5372.4	4426.3	3604.0	2892.3	2281.3	1743.6
-5°	13209.5	11120.8	9333.5	7772.5	6472.9	5336.6	4398.3	3582.3	2875.7	2268.5	1733.9
-7.5°	12998.5	10955.9	9201.5	7672.5	6393.2	5277.1	4351.7	3546.1	2848.1	2247.2	1717.6
-10°	12705.1	10726.3	9017.5	7533.2	6282.0	5194.1	4286.6	3495.6	2809.6	2217.4	1695.0
-12.5°	12331.2	10433.3	8782.7	7355.1	6139.9	5087.9	4203.3	3431.0	2760.3	2179.2	1665.9
-15°	11878.9	10078.6	8498.0	7139.1	5967.3	4959.0	4102.1	3352.4	2700.3	2132.8	1630.5
-17.5°	11351.1	9664.1	8164.9	6886.1	5765.1	4807.7	3983.3	3260.1	2629.9	2078.2	1588.9
-20°	10824.4	9222.9	7796.6	6597.2	5533.9	4634.6	3847.2	3154.4	2549.1	2015.7	1541.2



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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°	10252.8	8761.3	7444.1	6306.3	5294.0	4440.4	3694.4	3035.5	2458.2	1945.2	1487.4
-25°	9624.9	8253.3	7055.6	5993.5	5058.3	4253.1	3536.8	2903.8	2357.5	1867.1	1427.8
-27.5°	9005.8	7727.2	6632.8	5652.5	4801.1	4049.1	3376.8	2779.3	2251.8	1781.5	1362.4
-30°	8366.0	7234.8	6221.9	5302.3	4523.2	3828.6	3203.5	2645.3	2146.5	1695.6	1291.4
-32.5°	7713.5	6709.6	5795.6	4978.5	4253.1	3594.7	3017.5	2501.4	2033.4	1607.8	1224.6
-35°	7116.6	6201.3	5350.9	4634.6	3978.1	3376.8	2830.4	2347.9	1912.6	1514.0	1156.5
-37.5°	6495.6	5689.1	4959.0	4293.3	3687.5	3146.3	2650.3	2197.2	1784.4	1414.3	1084.1
-40°	5922.3	5194.1	4548.3	3962.4	3413.0	2903.8	2460.7	2046.3	1661.1	1309.2	1007.6
-42.5°	5336.6	4734.9	4161.5	3616.9	3136.7	2685.2	2264.8	1888.0	1536.3	1211.1	927.2
-45°	4828.9	4282.0	3775.1	3305.2	2856.0	2458.2	2082.4	1725.6	1406.0	1114.6	849.4
-47.5°	4322.4	3854.8	3407.2	2983.2	2600.1	2230.1	1892.8	1574.5	1270.8	1014.2	777.6
-50°	3854.8	3441.3	3050.7	2685.9	2335.6	2015.7	1702.6	1417.9	1153.3	909.9	703.1
-52.5°	3407.2	3050.7	2714.6	2392.5	2090.0	1794.5	1524.5	1258.9	1031.8	815.9	625.9
-55°	2983.2	2685.9	2392.5	2114.8	1843.8	1588.9	1341.2	1119.9	906.7	724.9	548.3
-57.5°	2600.1	2335.6	2090.0	1843.8	1610.5	1384.0	1173.0	977.0	796.3	631.3	484.5
-60°	2230.1	2015.7	1794.5	1588.9	1384.0	1190.8	1012.4	839.4	688.4	539.7	419.1
-62.5°	1892.8	1702.6	1524.5	1341.2	1173.0	1012.4	853.8	717.1	578.1	463.2	352.1
-65°	1574.5	1417.9	1258.9	1119.9	977.0	839.4	717.1	592.4	485.4	385.2	290.2
-67.5°	1270.8	1153.3	1031.8	906.7	796.3	688.4	578.1	485.4	396.3	305.8	243.1
-70°	1014.2	909.9	815.9	724.9	631.3	539.7	463.2	385.2	305.8	250.6	195.2
-72.5°	777.6	703.1	625.9	548.3	484.5	419.1	352.1	290.2	243.1	195.2	146.7
-75°	564.2	512.5	461.1	408.0	353.3	299.3	260.5	220.8	180.4	139.2	113.9
-77.5°	395.0	353.7	310.9	278.7	247.9	216.3	183.9	150.8	124.6	105.8	86.7
-80°	251.9	229.6	206.4	182.5	157.9	133.2	119.0	104.4	89.6	74.5	59.2
-82.5°	137.9	126.9	117.4	107.6	97.5	87.1	76.4	65.5	54.3	43.0	36.7
-85°	73.4	67.3	61.0	54.4	47.7	40.8	37.6	34.4	31.2	27.9	24.5
-87.5°	27.6	26.2	24.8	23.4	21.9	20.4	18.8	17.2	15.6	14.0	12.3
-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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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°	10.6	8.8	7.1	5.3	3.6	1.8	0.0
85°	21.1	17.6	14.2	10.6	7.1	3.6	0.0
82.5°	31.6	26.4	21.2	15.9	10.6	5.3	0.0
80°	43.6	35.2	28.2	21.2	14.2	7.1	0.0
77.5°	67.3	47.7	35.2	26.4	17.6	8.8	0.0
75°	90.7	67.3	43.6	31.6	21.1	10.6	0.0
72.5°	113.9	86.7	59.2	36.7	24.5	12.3	0.0
70°	139.2	105.8	74.5	43.0	27.9	14.0	0.0
67.5°	180.4	124.6	89.6	54.3	31.2	15.6	0.0
65°	220.8	150.8	104.4	65.5	34.4	17.2	0.0
62.5°	260.5	183.9	119.0	76.4	37.6	18.8	0.0
60°	299.3	216.3	133.2	87.1	40.8	20.4	0.0
57.5°	353.3	247.9	157.9	97.5	47.7	21.9	0.0
55°	408.0	278.7	182.5	107.6	54.4	23.4	0.0
52.5°	461.1	310.9	206.4	117.4	61.0	24.8	0.0
50°	512.5	353.7	229.6	126.9	67.3	26.2	0.0
47.5°	564.2	395.0	251.9	137.9	73.4	27.6	0.0
45°	625.6	434.8	273.3	154.0	79.3	28.8	0.0
42.5°	684.5	472.9	293.9	169.4	84.9	30.1	0.0
40°	740.7	509.2	318.2	184.1	90.3	31.3	0.0
37.5°	794.2	543.8	345.8	198.0	95.4	32.4	0.0
35°	844.7	582.6	371.9	211.2	100.2	33.4	0.0
32.5°	895.4	622.1	396.4	223.6	104.7	34.4	0.0
30°	949.8	659.0	419.3	235.1	108.9	35.3	0.0
27.5°	1000.3	693.2	440.5	245.9	112.8	36.2	0.0
25°	1046.8	724.8	460.0	255.7	116.4	37.0	0.0
22.5°	1089.2	753.5	477.9	264.7	119.7	37.7	0.0
20°	1127.4	779.4	493.9	272.8	122.6	38.3	0.0
17.5°	1161.3	802.4	508.1	280.0	125.3	38.9	0.0
15°	1190.8	822.4	520.5	286.2	127.5	39.4	0.0
12.5°	1215.9	839.4	531.0	291.6	129.5	39.8	0.0
10°	1236.6	853.4	539.7	295.9	131.1	40.2	0.0
7.5°	1252.6	864.3	546.4	299.3	132.3	40.5	0.0
5°	1264.2	872.1	551.2	301.8	133.2	40.6	0.0
2.5°	1271.1	876.7	554.1	303.2	133.7	40.8	0.0
0°	1273.4	878.3	555.1	303.7	133.9	40.8	0.0
-2.5°	1271.1	876.7	554.1	303.2	133.7	40.8	0.0
-5°	1264.2	872.1	551.2	301.8	133.2	40.6	0.0
-7.5°	1252.6	864.3	546.4	299.3	132.3	40.5	0.0
-10°	1236.6	853.4	539.7	295.9	131.1	40.2	0.0
-12.5°	1215.9	839.4	531.0	291.6	129.5	39.8	0.0
-15°	1190.8	822.4	520.5	286.2	127.5	39.4	0.0
-17.5°	1161.3	802.4	508.1	280.0	125.3	38.9	0.0
-20°	1127.4	779.4	493.9	272.8	122.6	38.3	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	1089.2	753.5	477.9	264.7	119.7	37.7	0.0
-25°	1046.8	724.8	460.0	255.7	116.4	37.0	0.0
-27.5°	1000.3	693.2	440.5	245.9	112.8	36.2	0.0
-30°	949.8	659.0	419.3	235.1	108.9	35.3	0.0
-32.5°	895.4	622.1	396.4	223.6	104.7	34.4	0.0
-35°	844.7	582.6	371.9	211.2	100.2	33.4	0.0
-37.5°	794.2	543.8	345.8	198.0	95.4	32.4	0.0
-40°	740.7	509.2	318.2	184.1	90.3	31.3	0.0
-42.5°	684.5	472.9	293.9	169.4	84.9	30.1	0.0
-45°	625.6	434.8	273.3	154.0	79.3	28.8	0.0
-47.5°	564.2	395.0	251.9	137.9	73.4	27.6	0.0
-50°	512.5	353.7	229.6	126.9	67.3	26.2	0.0
-52.5°	461.1	310.9	206.4	117.4	61.0	24.8	0.0
-55°	408.0	278.7	182.5	107.6	54.4	23.4	0.0
-57.5°	353.3	247.9	157.9	97.5	47.7	21.9	0.0
-60°	299.3	216.3	133.2	87.1	40.8	20.4	0.0
-62.5°	260.5	183.9	119.0	76.4	37.6	18.8	0.0
-65°	220.8	150.8	104.4	65.5	34.4	17.2	0.0
-67.5°	180.4	124.6	89.6	54.3	31.2	15.6	0.0
-70°	139.2	105.8	74.5	43.0	27.9	14.0	0.0
-72.5°	113.9	86.7	59.2	36.7	24.5	12.3	0.0
-75°	90.7	67.3	43.6	31.6	21.1	10.6	0.0
-77.5°	67.3	47.7	35.2	26.4	17.6	8.8	0.0
-80°	43.6	35.2	28.2	21.2	14.2	7.1	0.0
-82.5°	31.6	26.4	21.2	15.9	10.6	5.3	0.0
-85°	21.1	17.6	14.2	10.6	7.1	3.6	0.0
-87.5°	10.6	8.8	7.1	5.3	3.6	1.8	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

