

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: P701462 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-57-80-7F-HEG-S**

Issue Date: 8/15/2023

Test Information

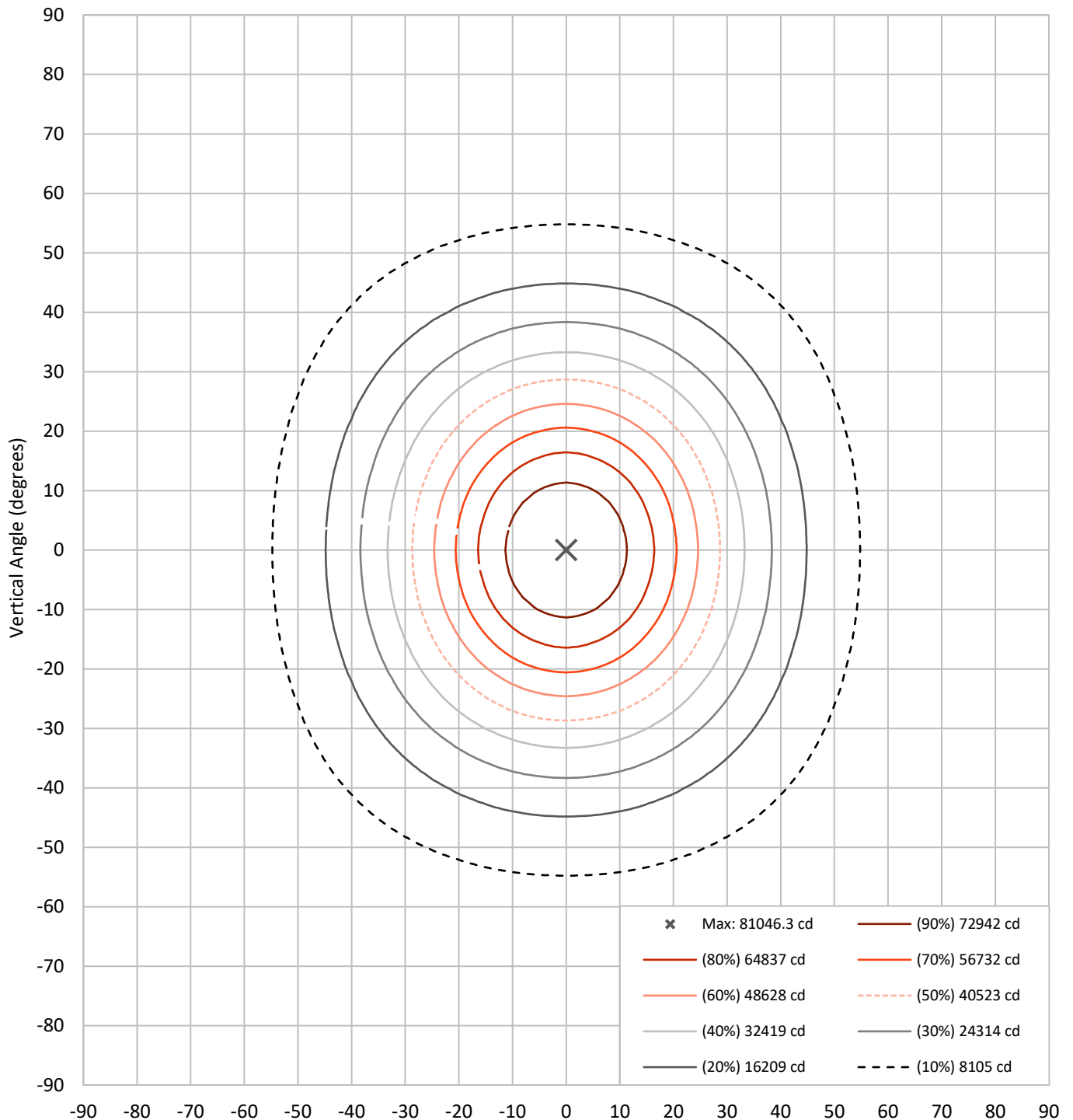
Test Method: LM-79-08
Report Number: P701462 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-7)
Test Lab: INNOVATION CENTER
Issue Date: 8/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0640L-57-80-7F-HEG-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 5700K, 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:	91444.9 lumens	Max Intensity:	81046.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	139.0 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:	45036.6 lumens	Field Lumens:	82960.2 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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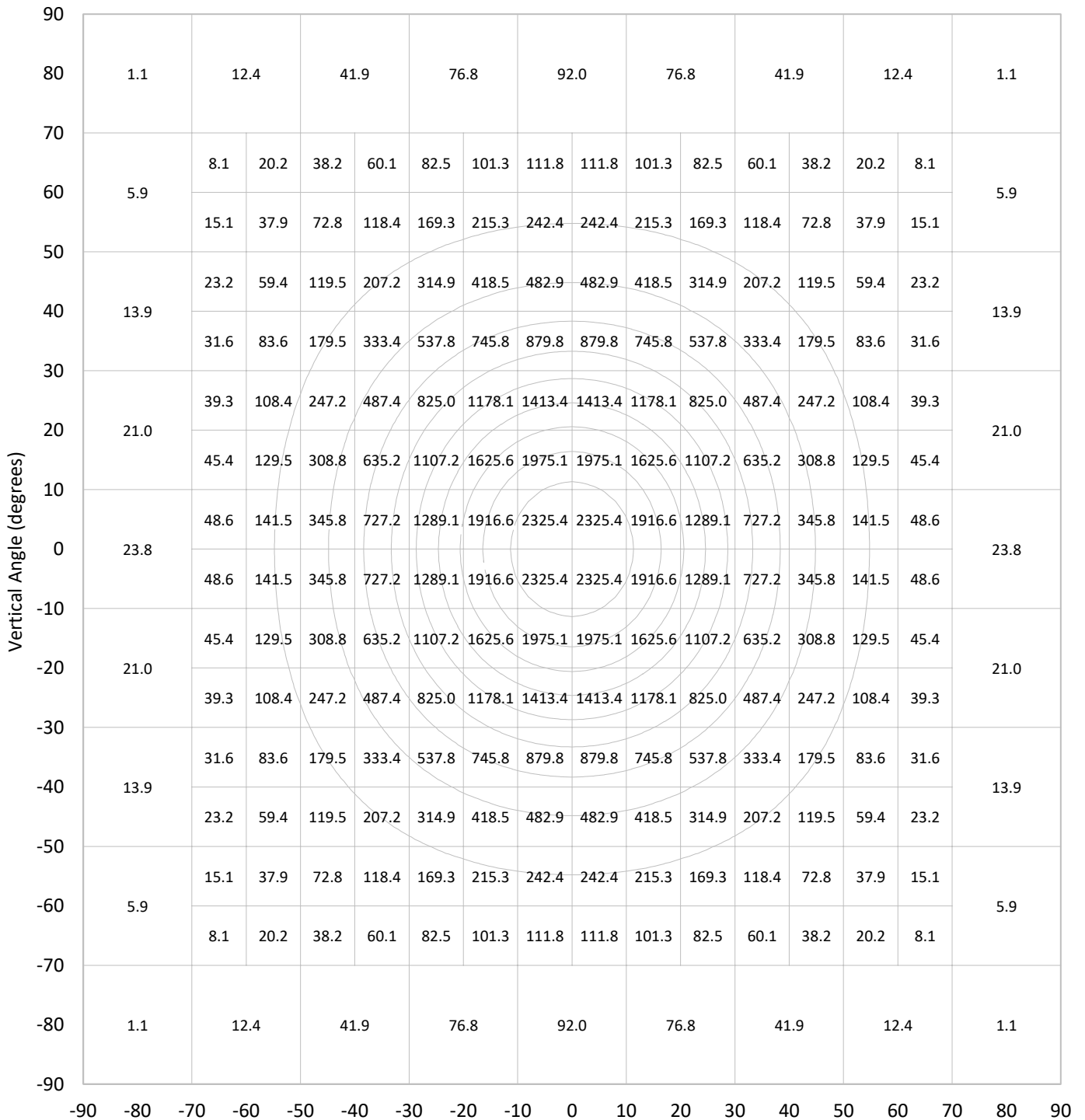
Iso-Candela Plot





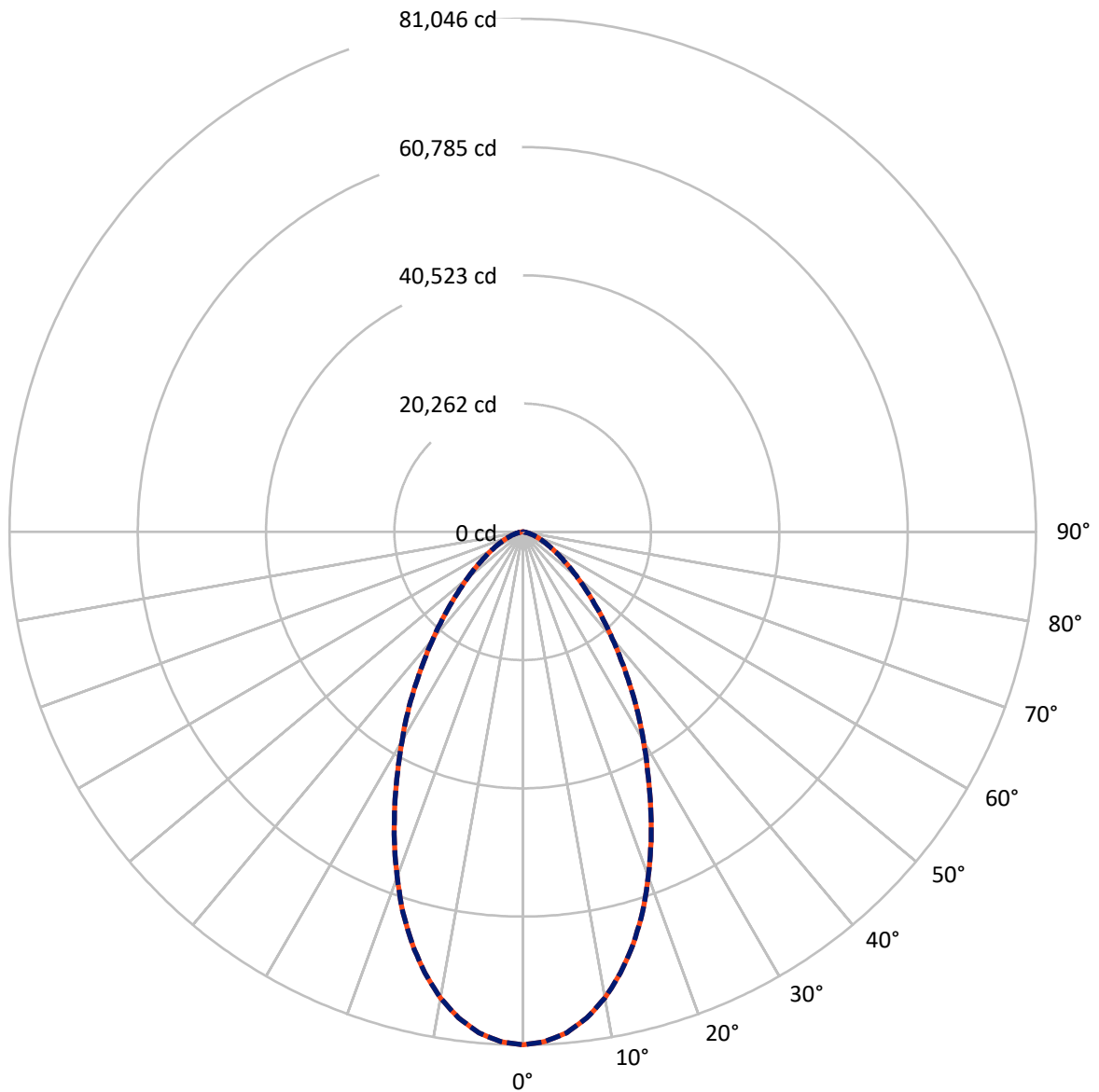
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Lumen Table



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CATALOG NUMBER: EPH-LS-08-0640L-57-80-7F-HEG-S

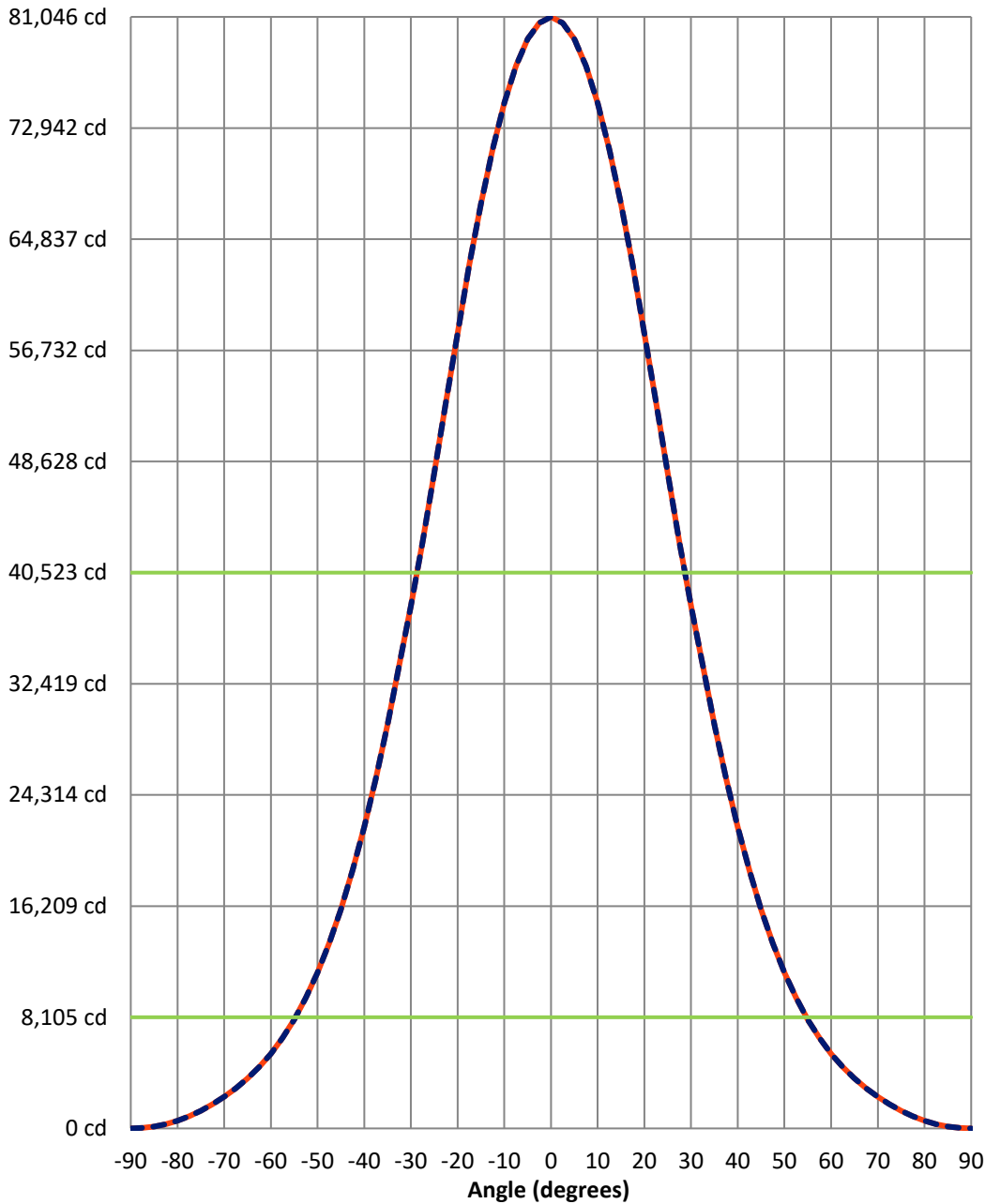
Luminous Intensity Polar Plot



— 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: 45036.6
 Efficiency: 49.2%

Field:
 H Angle: 109.4°
 V Angle: 109.4°
 Lumens: 82960.2
 Efficiency: 90.7%

Spill:
 Lumens: 8484.7
 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	5.4	7.2	8.9	10.7	12.4	14.1	15.8	17.4
85°	0.0	3.6	7.2	10.7	14.3	17.8	21.3	24.7	28.2	31.5	34.8
82.5°	0.0	5.4	10.7	16.1	21.4	26.7	31.9	37.1	43.4	54.9	66.1
80°	0.0	7.2	14.3	21.4	28.5	35.5	44.1	59.7	75.2	90.5	105.4
77.5°	0.0	8.9	17.8	26.7	35.5	48.2	67.9	87.5	106.8	125.8	152.2
75°	0.0	10.7	21.3	31.9	44.1	67.9	91.6	115.0	140.6	182.1	222.9
72.5°	0.0	12.4	24.7	37.1	59.7	87.5	115.0	148.1	197.1	245.4	293.0
70°	0.0	14.1	28.2	43.4	75.2	106.8	140.6	197.1	253.0	308.7	388.9
67.5°	0.0	15.8	31.5	54.9	90.5	125.8	182.1	245.4	308.7	400.1	490.1
65°	0.0	17.4	34.8	66.1	105.4	152.2	222.9	293.0	388.9	490.1	598.1
62.5°	0.0	19.0	38.0	77.1	120.1	185.6	263.0	355.5	467.7	583.6	724.0
60°	0.0	20.6	41.2	87.9	134.5	218.3	302.2	423.1	544.8	695.0	847.5
57.5°	0.0	22.1	48.1	98.4	159.4	250.3	356.7	489.1	637.3	804.0	986.5
55°	0.0	23.6	54.9	108.6	184.3	281.3	411.9	553.5	731.9	915.4	1130.6
52.5°	0.0	25.1	61.6	118.6	208.4	313.8	465.5	631.9	823.8	1041.8	1271.0
50°	0.0	26.5	68.0	128.2	231.8	357.1	517.4	709.9	918.7	1164.4	1431.4
47.5°	0.0	27.8	74.1	139.2	254.3	398.8	569.6	785.2	1024.0	1282.9	1589.6
45°	0.0	29.1	80.1	155.5	276.0	438.9	631.6	857.6	1125.4	1419.4	1742.1
42.5°	0.0	30.4	85.7	171.0	296.7	477.4	691.1	936.1	1222.7	1551.0	1906.1
40°	0.0	31.6	91.1	185.8	321.2	514.1	747.8	1017.3	1321.7	1676.9	2066.0
37.5°	0.0	32.7	96.3	199.9	349.1	549.0	801.8	1094.5	1427.9	1801.5	2218.4
35°	0.0	33.7	101.1	213.2	375.4	588.1	852.9	1167.6	1528.5	1930.9	2370.5
32.5°	0.0	34.7	105.7	225.7	400.1	628.0	904.1	1236.4	1623.2	2052.9	2525.5
30°	0.0	35.7	110.0	237.4	423.3	665.3	959.0	1303.7	1711.9	2167.2	2670.8
27.5°	0.0	36.5	113.9	248.2	444.7	699.9	1010.0	1375.4	1798.5	2273.4	2806.1
25°	0.0	37.3	117.5	258.2	464.4	731.8	1056.9	1441.4	1885.0	2380.2	2931.8
22.5°	0.0	38.1	120.9	267.3	482.4	760.8	1099.7	1501.6	1963.9	2481.9	3064.7
20°	0.0	38.7	123.8	275.4	498.6	786.9	1138.2	1555.9	2035.0	2573.6	3184.7
17.5°	0.0	39.3	126.5	282.7	513.0	810.1	1172.4	1604.1	2098.2	2655.2	3291.4
15°	0.0	39.8	128.8	289.0	525.5	830.3	1202.3	1646.1	2153.3	2726.3	3384.6
12.5°	0.0	40.2	130.7	294.3	536.1	847.5	1227.6	1681.8	2200.2	2786.9	3463.9
10°	0.0	40.6	132.3	298.7	544.8	861.6	1248.4	1711.2	2238.7	2836.7	3529.2
7.5°	0.0	40.8	133.6	302.2	551.6	872.6	1264.7	1734.1	2268.8	2875.5	3580.1
5°	0.0	41.0	134.5	304.6	556.5	880.5	1276.3	1750.5	2290.3	2903.4	3616.6
2.5°	0.0	41.2	135.0	306.1	559.4	885.2	1283.3	1760.3	2303.3	2920.1	3638.6
0°	0.0	41.2	135.2	306.6	560.4	886.8	1285.6	1763.6	2307.6	2925.7	3645.9
-2.5°	0.0	41.2	135.0	306.1	559.4	885.2	1283.3	1760.3	2303.3	2920.1	3638.6
-5°	0.0	41.0	134.5	304.6	556.5	880.5	1276.3	1750.5	2290.3	2903.4	3616.6
-7.5°	0.0	40.8	133.6	302.2	551.6	872.6	1264.7	1734.1	2268.8	2875.5	3580.1
-10°	0.0	40.6	132.3	298.7	544.8	861.6	1248.4	1711.2	2238.7	2836.7	3529.2
-12.5°	0.0	40.2	130.7	294.3	536.1	847.5	1227.6	1681.8	2200.2	2786.9	3463.9
-15°	0.0	39.8	128.8	289.0	525.5	830.3	1202.3	1646.1	2153.3	2726.3	3384.6
-17.5°	0.0	39.3	126.5	282.7	513.0	810.1	1172.4	1604.1	2098.2	2655.2	3291.4
-20°	0.0	38.7	123.8	275.4	498.6	786.9	1138.2	1555.9	2035.0	2573.6	3184.7



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 CATALOG NUMBER: EPH-LS-08-0640L-57-80-7F-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	38.1	120.9	267.3	482.4	760.8	1099.7	1501.6	1963.9	2481.9	3064.7
-25°	0.0	37.3	117.5	258.2	464.4	731.8	1056.9	1441.4	1885.0	2380.2	2931.8
-27.5°	0.0	36.5	113.9	248.2	444.7	699.9	1010.0	1375.4	1798.5	2273.4	2806.1
-30°	0.0	35.7	110.0	237.4	423.3	665.3	959.0	1303.7	1711.9	2167.2	2670.8
-32.5°	0.0	34.7	105.7	225.7	400.1	628.0	904.1	1236.4	1623.2	2052.9	2525.5
-35°	0.0	33.7	101.1	213.2	375.4	588.1	852.9	1167.6	1528.5	1930.9	2370.5
-37.5°	0.0	32.7	96.3	199.9	349.1	549.0	801.8	1094.5	1427.9	1801.5	2218.4
-40°	0.0	31.6	91.1	185.8	321.2	514.1	747.8	1017.3	1321.7	1676.9	2066.0
-42.5°	0.0	30.4	85.7	171.0	296.7	477.4	691.1	936.1	1222.7	1551.0	1906.1
-45°	0.0	29.1	80.1	155.5	276.0	438.9	631.6	857.6	1125.4	1419.4	1742.1
-47.5°	0.0	27.8	74.1	139.2	254.3	398.8	569.6	785.2	1024.0	1282.9	1589.6
-50°	0.0	26.5	68.0	128.2	231.8	357.1	517.4	709.9	918.7	1164.4	1431.4
-52.5°	0.0	25.1	61.6	118.6	208.4	313.8	465.5	631.9	823.8	1041.8	1271.0
-55°	0.0	23.6	54.9	108.6	184.3	281.3	411.9	553.5	731.9	915.4	1130.6
-57.5°	0.0	22.1	48.1	98.4	159.4	250.3	356.7	489.1	637.3	804.0	986.5
-60°	0.0	20.6	41.2	87.9	134.5	218.3	302.2	423.1	544.8	695.0	847.5
-62.5°	0.0	19.0	38.0	77.1	120.1	185.6	263.0	355.5	467.7	583.6	724.0
-65°	0.0	17.4	34.8	66.1	105.4	152.2	222.9	293.0	388.9	490.1	598.1
-67.5°	0.0	15.8	31.5	54.9	90.5	125.8	182.1	245.4	308.7	400.1	490.1
-70°	0.0	14.1	28.2	43.4	75.2	106.8	140.6	197.1	253.0	308.7	388.9
-72.5°	0.0	12.4	24.7	37.1	59.7	87.5	115.0	148.1	197.1	245.4	293.0
-75°	0.0	10.7	21.3	31.9	44.1	67.9	91.6	115.0	140.6	182.1	222.9
-77.5°	0.0	8.9	17.8	26.7	35.5	48.2	67.9	87.5	106.8	125.8	152.2
-80°	0.0	7.2	14.3	21.4	28.5	35.5	44.1	59.7	75.2	90.5	105.4
-82.5°	0.0	5.4	10.7	16.1	21.4	26.7	31.9	37.1	43.4	54.9	66.1
-85°	0.0	3.6	7.2	10.7	14.3	17.8	21.3	24.7	28.2	31.5	34.8
-87.5°	0.0	1.8	3.6	5.4	7.2	8.9	10.7	12.4	14.1	15.8	17.4
-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-08-0640L-57-80-7F-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°	19.0	20.6	22.1	23.6	25.1	26.5	27.8	29.1	30.4	31.6	32.7
85°	38.0	41.2	48.1	54.9	61.6	68.0	74.1	80.1	85.7	91.1	96.3
82.5°	77.1	87.9	98.4	108.6	118.6	128.2	139.2	155.5	171.0	185.8	199.9
80°	120.1	134.5	159.4	184.3	208.4	231.8	254.3	276.0	296.7	321.2	349.1
77.5°	185.6	218.3	250.3	281.3	313.8	357.1	398.8	438.9	477.4	514.1	549.0
75°	263.0	302.2	356.7	411.9	465.5	517.4	569.6	631.6	691.1	747.8	801.8
72.5°	355.5	423.1	489.1	553.5	631.9	709.9	785.2	857.6	936.1	1017.3	1094.5
70°	467.7	544.8	637.3	731.9	823.8	918.7	1024.0	1125.4	1222.7	1321.7	1427.9
67.5°	583.6	695.0	804.0	915.4	1041.8	1164.4	1282.9	1419.4	1551.0	1676.9	1801.5
65°	724.0	847.5	986.5	1130.6	1271.0	1431.4	1589.6	1742.1	1906.1	2066.0	2218.4
62.5°	862.1	1022.2	1184.3	1354.0	1539.0	1718.8	1910.9	2102.4	2286.6	2484.4	2675.9
60°	1022.2	1202.3	1397.2	1604.1	1811.7	2035.0	2251.6	2481.9	2711.0	2931.8	3176.5
57.5°	1184.3	1397.2	1625.9	1861.5	2110.0	2358.1	2625.1	2883.5	3166.8	3445.7	3722.8
55°	1354.0	1604.1	1861.5	2135.1	2415.6	2711.8	3011.9	3336.9	3651.5	4000.4	4334.5
52.5°	1539.0	1811.7	2110.0	2415.6	2740.8	3080.0	3439.9	3811.3	4201.4	4592.0	5006.5
50°	1718.8	2035.0	2358.1	2711.8	3080.0	3474.3	3891.7	4323.1	4780.4	5243.9	5743.6
47.5°	1910.9	2251.6	2625.1	3011.9	3439.9	3891.7	4363.9	4875.2	5387.7	5979.0	6557.9
45°	2102.4	2481.9	2883.5	3336.9	3811.3	4323.1	4875.2	5435.9	6097.7	6757.8	7462.6
42.5°	2286.6	2711.0	3166.8	3651.5	4201.4	4780.4	5387.7	6097.7	6826.8	7602.6	8439.1
40°	2484.4	2931.8	3445.7	4000.4	4592.0	5243.9	5979.0	6757.8	7602.6	8525.3	9483.1
37.5°	2675.9	3176.5	3722.8	4334.5	5006.5	5743.6	6557.9	7462.6	8439.1	9483.1	10633.7
35°	2857.7	3409.2	4016.2	4679.1	5402.2	6260.7	7184.9	8182.0	9307.7	10531.1	11818.4
32.5°	3046.5	3629.1	4293.9	5026.3	5851.2	6774.0	7787.5	8960.0	10225.1	11572.9	13076.7
30°	3234.2	3865.3	4566.6	5353.2	6281.5	7304.2	8446.2	9721.6	11127.1	12701.2	14389.1
27.5°	3409.2	4088.0	4847.2	5706.7	6696.4	7801.3	9092.3	10515.2	12084.0	13805.6	15692.4
25°	3570.7	4293.9	5106.8	6050.9	7123.3	8332.5	9717.3	11255.7	13016.7	14949.8	17073.1
22.5°	3729.8	4483.0	5344.8	6366.7	7515.5	8845.3	10351.2	12039.1	13933.5	16019.6	18398.7
20°	3884.1	4679.1	5586.9	6660.5	7871.3	9311.4	10928.2	12770.2	14835.9	17150.6	19701.6
17.5°	4021.5	4853.8	5820.4	6952.2	8243.2	9756.9	11460.0	13426.7	15648.1	18171.0	20920.2
15°	4141.4	5006.5	6024.6	7207.6	8579.5	10175.4	11992.9	14076.3	16430.2	19100.6	22004.6
12.5°	4243.6	5136.7	6198.8	7425.6	8866.9	10533.5	12449.5	14643.7	17146.4	19960.1	23056.7
10°	4327.7	5243.9	6342.3	7605.4	9104.1	10829.2	12827.0	15113.5	17740.3	20674.3	23932.7
7.5°	4393.4	5327.7	6454.5	7746.1	9289.8	11061.0	13123.2	15482.5	18207.4	21236.8	24624.1
5°	4440.5	5387.7	6535.0	7847.0	9423.1	11227.6	13336.2	15748.1	18543.9	21642.6	25123.5
2.5°	4468.8	5423.8	6583.4	7907.8	9503.4	11327.9	13464.5	15908.2	18746.9	21887.6	25425.5
0°	4478.3	5435.9	6599.6	7928.1	9530.2	11361.4	13507.4	15961.7	18814.8	21969.6	25526.5
-2.5°	4468.8	5423.8	6583.4	7907.8	9503.4	11327.9	13464.5	15908.2	18746.9	21887.6	25425.5
-5°	4440.5	5387.7	6535.0	7847.0	9423.1	11227.6	13336.2	15748.1	18543.9	21642.6	25123.5
-7.5°	4393.4	5327.7	6454.5	7746.1	9289.8	11061.0	13123.2	15482.5	18207.4	21236.8	24624.1
-10°	4327.7	5243.9	6342.3	7605.4	9104.1	10829.2	12827.0	15113.5	17740.3	20674.3	23932.7
-12.5°	4243.6	5136.7	6198.8	7425.6	8866.9	10533.5	12449.5	14643.7	17146.4	19960.1	23056.7
-15°	4141.4	5006.5	6024.6	7207.6	8579.5	10175.4	11992.9	14076.3	16430.2	19100.6	22004.6
-17.5°	4021.5	4853.8	5820.4	6952.2	8243.2	9756.9	11460.0	13426.7	15648.1	18171.0	20920.2
-20°	3884.1	4679.1	5586.9	6660.5	7871.3	9311.4	10928.2	12770.2	14835.9	17150.6	19701.6



REPORT NUMBER: P701462 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-80-7F-HEG-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	3729.8	4483.0	5344.8	6366.7	7515.5	8845.3	10351.2	12039.1	13933.5	16019.6	18398.7
-25°	3570.7	4293.9	5106.8	6050.9	7123.3	8332.5	9717.3	11255.7	13016.7	14949.8	17073.1
-27.5°	3409.2	4088.0	4847.2	5706.7	6696.4	7801.3	9092.3	10515.2	12084.0	13805.6	15692.4
-30°	3234.2	3865.3	4566.6	5353.2	6281.5	7304.2	8446.2	9721.6	11127.1	12701.2	14389.1
-32.5°	3046.5	3629.1	4293.9	5026.3	5851.2	6774.0	7787.5	8960.0	10225.1	11572.9	13076.7
-35°	2857.7	3409.2	4016.2	4679.1	5402.2	6260.7	7184.9	8182.0	9307.7	10531.1	11818.4
-37.5°	2675.9	3176.5	3722.8	4334.5	5006.5	5743.6	6557.9	7462.6	8439.1	9483.1	10633.7
-40°	2484.4	2931.8	3445.7	4000.4	4592.0	5243.9	5979.0	6757.8	7602.6	8525.3	9483.1
-42.5°	2286.6	2711.0	3166.8	3651.5	4201.4	4780.4	5387.7	6097.7	6826.8	7602.6	8439.1
-45°	2102.4	2481.9	2883.5	3336.9	3811.3	4323.1	4875.2	5435.9	6097.7	6757.8	7462.6
-47.5°	1910.9	2251.6	2625.1	3011.9	3439.9	3891.7	4363.9	4875.2	5387.7	5979.0	6557.9
-50°	1718.8	2035.0	2358.1	2711.8	3080.0	3474.3	3891.7	4323.1	4780.4	5243.9	5743.6
-52.5°	1539.0	1811.7	2110.0	2415.6	2740.8	3080.0	3439.9	3811.3	4201.4	4592.0	5006.5
-55°	1354.0	1604.1	1861.5	2135.1	2415.6	2711.8	3011.9	3336.9	3651.5	4000.4	4334.5
-57.5°	1184.3	1397.2	1625.9	1861.5	2110.0	2358.1	2625.1	2883.5	3166.8	3445.7	3722.8
-60°	1022.2	1202.3	1397.2	1604.1	1811.7	2035.0	2251.6	2481.9	2711.0	2931.8	3176.5
-62.5°	862.1	1022.2	1184.3	1354.0	1539.0	1718.8	1910.9	2102.4	2286.6	2484.4	2675.9
-65°	724.0	847.5	986.5	1130.6	1271.0	1431.4	1589.6	1742.1	1906.1	2066.0	2218.4
-67.5°	583.6	695.0	804.0	915.4	1041.8	1164.4	1282.9	1419.4	1551.0	1676.9	1801.5
-70°	467.7	544.8	637.3	731.9	823.8	918.7	1024.0	1125.4	1222.7	1321.7	1427.9
-72.5°	355.5	423.1	489.1	553.5	631.9	709.9	785.2	857.6	936.1	1017.3	1094.5
-75°	263.0	302.2	356.7	411.9	465.5	517.4	569.6	631.6	691.1	747.8	801.8
-77.5°	185.6	218.3	250.3	281.3	313.8	357.1	398.8	438.9	477.4	514.1	549.0
-80°	120.1	134.5	159.4	184.3	208.4	231.8	254.3	276.0	296.7	321.2	349.1
-82.5°	77.1	87.9	98.4	108.6	118.6	128.2	139.2	155.5	171.0	185.8	199.9
-85°	38.0	41.2	48.1	54.9	61.6	68.0	74.1	80.1	85.7	91.1	96.3
-87.5°	19.0	20.6	22.1	23.6	25.1	26.5	27.8	29.1	30.4	31.6	32.7
-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: P701462 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-80-7F-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°	33.7	34.7	35.7	36.5	37.3	38.1	38.7	39.3	39.8	40.2	40.6
85°	101.1	105.7	110.0	113.9	117.5	120.9	123.8	126.5	128.8	130.7	132.3
82.5°	213.2	225.7	237.4	248.2	258.2	267.3	275.4	282.7	289.0	294.3	298.7
80°	375.4	400.1	423.3	444.7	464.4	482.4	498.6	513.0	525.5	536.1	544.8
77.5°	588.1	628.0	665.3	699.9	731.8	760.8	786.9	810.1	830.3	847.5	861.6
75°	852.9	904.1	959.0	1010.0	1056.9	1099.7	1138.2	1172.4	1202.3	1227.6	1248.4
72.5°	1167.6	1236.4	1303.7	1375.4	1441.4	1501.6	1555.9	1604.1	1646.1	1681.8	1711.2
70°	1528.5	1623.2	1711.9	1798.5	1885.0	1963.9	2035.0	2098.2	2153.3	2200.2	2238.7
67.5°	1930.9	2052.9	2167.2	2273.4	2380.2	2481.9	2573.6	2655.2	2726.3	2786.9	2836.7
65°	2370.5	2525.5	2670.8	2806.1	2931.8	3064.7	3184.7	3291.4	3384.6	3463.9	3529.2
62.5°	2857.7	3046.5	3234.2	3409.2	3570.7	3729.8	3884.1	4021.5	4141.4	4243.6	4327.7
60°	3409.2	3629.1	3865.3	4088.0	4293.9	4483.0	4679.1	4853.8	5006.5	5136.7	5243.9
57.5°	4016.2	4293.9	4566.6	4847.2	5106.8	5344.8	5586.9	5820.4	6024.6	6198.8	6342.3
55°	4679.1	5026.3	5353.2	5706.7	6050.9	6366.7	6660.5	6952.2	7207.6	7425.6	7605.4
52.5°	5402.2	5851.2	6281.5	6696.4	7123.3	7515.5	7871.3	8243.2	8579.5	8866.9	9104.1
50°	6260.7	6774.0	7304.2	7801.3	8332.5	8845.3	9311.4	9756.9	10175.4	10533.5	10829.2
47.5°	7184.9	7787.5	8446.2	9092.3	9717.3	10351.2	10928.2	11460.0	11992.9	12449.5	12827.0
45°	8182.0	8960.0	9721.6	10515.2	11255.7	12039.1	12770.2	13426.7	14076.3	14643.7	15113.5
42.5°	9307.7	10225.1	11127.1	12084.0	13016.7	13933.5	14835.9	15648.1	16430.2	17146.4	17740.3
40°	10531.1	11572.9	12701.2	13805.6	14949.8	16019.6	17150.6	18171.0	19100.6	19960.1	20674.3
37.5°	11818.4	13076.7	14389.1	15692.4	17073.1	18398.7	19701.6	20920.2	22004.6	23056.7	23932.7
35°	13202.7	14684.2	16174.7	17789.8	19365.7	20938.2	22441.3	23924.7	25244.2	26475.9	27528.7
32.5°	14684.2	16351.5	18152.7	19983.1	21781.8	23657.9	25416.2	27171.9	28749.5	30190.7	31459.3
30°	16174.7	18152.7	20190.8	22240.2	24402.7	26531.1	28616.9	30637.4	32527.1	34174.8	35555.9
27.5°	17789.8	19983.1	22240.2	24653.5	27103.6	29509.8	31985.7	34260.1	36302.9	38094.7	39724.1
25°	19365.7	21781.8	24402.7	27103.6	29840.4	32672.9	35325.6	37774.3	40139.4	42248.7	44151.5
22.5°	20938.2	23657.9	26531.1	29509.8	32672.9	35685.8	38559.8	41407.9	44115.6	46624.7	48794.4
20°	22441.3	25416.2	28616.9	31985.7	35325.6	38559.8	41838.1	45098.0	48179.5	50997.8	53417.7
17.5°	23924.7	27171.9	30637.4	34260.1	37774.3	41407.9	45098.0	48718.2	52140.1	55172.5	57800.4
15°	25244.2	28749.5	32527.1	36302.9	40139.4	44115.6	48179.5	52140.1	55774.4	59092.1	62038.3
12.5°	26475.9	30190.7	34174.8	38094.7	42248.7	46624.7	50997.8	55172.5	59092.1	62753.8	65707.3
10°	27528.7	31459.3	35555.9	39724.1	44151.5	48794.4	53417.7	57800.4	62038.3	65707.3	68927.8
7.5°	28361.5	32465.5	36655.0	41026.8	45714.8	50570.9	55343.6	59974.7	64332.5	68179.2	71410.7
5°	28964.1	33195.2	37454.3	41977.5	46860.6	51880.7	56774.4	61607.4	65999.8	69963.1	73267.8
2.5°	29328.9	33637.6	37939.8	42556.4	47560.6	52684.2	57657.3	62623.2	67049.6	71026.7	74378.9
0°	29451.0	33785.9	38102.7	42750.8	47796.1	52955.1	57955.9	62968.3	67408.7	71377.7	74761.5
-2.5°	29328.9	33637.6	37939.8	42556.4	47560.6	52684.2	57657.3	62623.2	67049.6	71026.7	74378.9
-5°	28964.1	33195.2	37454.3	41977.5	46860.6	51880.7	56774.4	61607.4	65999.8	69963.1	73267.8
-7.5°	28361.5	32465.5	36655.0	41026.8	45714.8	50570.9	55343.6	59974.7	64332.5	68179.2	71410.7
-10°	27528.7	31459.3	35555.9	39724.1	44151.5	48794.4	53417.7	57800.4	62038.3	65707.3	68927.8
-12.5°	26475.9	30190.7	34174.8	38094.7	42248.7	46624.7	50997.8	55172.5	59092.1	62753.8	65707.3
-15°	25244.2	28749.5	32527.1	36302.9	40139.4	44115.6	48179.5	52140.1	55774.4	59092.1	62038.3
-17.5°	23924.7	27171.9	30637.4	34260.1	37774.3	41407.9	45098.0	48718.2	52140.1	55172.5	57800.4
-20°	22441.3	25416.2	28616.9	31985.7	35325.6	38559.8	41838.1	45098.0	48179.5	50997.8	53417.7



REPORT NUMBER: P701462 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-80-7F-HEG-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	20938.2	23657.9	26531.1	29509.8	32672.9	35685.8	38559.8	41407.9	44115.6	46624.7	48794.4
-25°	19365.7	21781.8	24402.7	27103.6	29840.4	32672.9	35325.6	37774.3	40139.4	42248.7	44151.5
-27.5°	17789.8	19983.1	22240.2	24653.5	27103.6	29509.8	31985.7	34260.1	36302.9	38094.7	39724.1
-30°	16174.7	18152.7	20190.8	22240.2	24402.7	26531.1	28616.9	30637.4	32527.1	34174.8	35555.9
-32.5°	14684.2	16351.5	18152.7	19983.1	21781.8	23657.9	25416.2	27171.9	28749.5	30190.7	31459.3
-35°	13202.7	14684.2	16174.7	17789.8	19365.7	20938.2	22441.3	23924.7	25244.2	26475.9	27528.7
-37.5°	11818.4	13076.7	14389.1	15692.4	17073.1	18398.7	19701.6	20920.2	22004.6	23056.7	23932.7
-40°	10531.1	11572.9	12701.2	13805.6	14949.8	16019.6	17150.6	18171.0	19100.6	19960.1	20674.3
-42.5°	9307.7	10225.1	11127.1	12084.0	13016.7	13933.5	14835.9	15648.1	16430.2	17146.4	17740.3
-45°	8182.0	8960.0	9721.6	10515.2	11255.7	12039.1	12770.2	13426.7	14076.3	14643.7	15113.5
-47.5°	7184.9	7787.5	8446.2	9092.3	9717.3	10351.2	10928.2	11460.0	11992.9	12449.5	12827.0
-50°	6260.7	6774.0	7304.2	7801.3	8332.5	8845.3	9311.4	9756.9	10175.4	10533.5	10829.2
-52.5°	5402.2	5851.2	6281.5	6696.4	7123.3	7515.5	7871.3	8243.2	8579.5	8866.9	9104.1
-55°	4679.1	5026.3	5353.2	5706.7	6050.9	6366.7	6660.5	6952.2	7207.6	7425.6	7605.4
-57.5°	4016.2	4293.9	4566.6	4847.2	5106.8	5344.8	5586.9	5820.4	6024.6	6198.8	6342.3
-60°	3409.2	3629.1	3865.3	4088.0	4293.9	4483.0	4679.1	4853.8	5006.5	5136.7	5243.9
-62.5°	2857.7	3046.5	3234.2	3409.2	3570.7	3729.8	3884.1	4021.5	4141.4	4243.6	4327.7
-65°	2370.5	2525.5	2670.8	2806.1	2931.8	3064.7	3184.7	3291.4	3384.6	3463.9	3529.2
-67.5°	1930.9	2052.9	2167.2	2273.4	2380.2	2481.9	2573.6	2655.2	2726.3	2786.9	2836.7
-70°	1528.5	1623.2	1711.9	1798.5	1885.0	1963.9	2035.0	2098.2	2153.3	2200.2	2238.7
-72.5°	1167.6	1236.4	1303.7	1375.4	1441.4	1501.6	1555.9	1604.1	1646.1	1681.8	1711.2
-75°	852.9	904.1	959.0	1010.0	1056.9	1099.7	1138.2	1172.4	1202.3	1227.6	1248.4
-77.5°	588.1	628.0	665.3	699.9	731.8	760.8	786.9	810.1	830.3	847.5	861.6
-80°	375.4	400.1	423.3	444.7	464.4	482.4	498.6	513.0	525.5	536.1	544.8
-82.5°	213.2	225.7	237.4	248.2	258.2	267.3	275.4	282.7	289.0	294.3	298.7
-85°	101.1	105.7	110.0	113.9	117.5	120.9	123.8	126.5	128.8	130.7	132.3
-87.5°	33.7	34.7	35.7	36.5	37.3	38.1	38.7	39.3	39.8	40.2	40.6
-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: P701462 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-80-7F-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°	40.8	41.0	41.2	41.2	41.2	41.0	40.8	40.6	40.2	39.8	39.3
85°	133.6	134.5	135.0	135.2	135.0	134.5	133.6	132.3	130.7	128.8	126.5
82.5°	302.2	304.6	306.1	306.6	306.1	304.6	302.2	298.7	294.3	289.0	282.7
80°	551.6	556.5	559.4	560.4	559.4	556.5	551.6	544.8	536.1	525.5	513.0
77.5°	872.6	880.5	885.2	886.8	885.2	880.5	872.6	861.6	847.5	830.3	810.1
75°	1264.7	1276.3	1283.3	1285.6	1283.3	1276.3	1264.7	1248.4	1227.6	1202.3	1172.4
72.5°	1734.1	1750.5	1760.3	1763.6	1760.3	1750.5	1734.1	1711.2	1681.8	1646.1	1604.1
70°	2268.8	2290.3	2303.3	2307.6	2303.3	2290.3	2268.8	2238.7	2200.2	2153.3	2098.2
67.5°	2875.5	2903.4	2920.1	2925.7	2920.1	2903.4	2875.5	2836.7	2786.9	2726.3	2655.2
65°	3580.1	3616.6	3638.6	3645.9	3638.6	3616.6	3580.1	3529.2	3463.9	3384.6	3291.4
62.5°	4393.4	4440.5	4468.8	4478.3	4468.8	4440.5	4393.4	4327.7	4243.6	4141.4	4021.5
60°	5327.7	5387.7	5423.8	5435.9	5423.8	5387.7	5327.7	5243.9	5136.7	5006.5	4853.8
57.5°	6454.5	6535.0	6583.4	6599.6	6583.4	6535.0	6454.5	6342.3	6198.8	6024.6	5820.4
55°	7746.1	7847.0	7907.8	7928.1	7907.8	7847.0	7746.1	7605.4	7425.6	7207.6	6952.2
52.5°	9289.8	9423.1	9503.4	9530.2	9503.4	9423.1	9289.8	9104.1	8866.9	8579.5	8243.2
50°	11061.0	11227.6	11327.9	11361.4	11327.9	11227.6	11061.0	10829.2	10533.5	10175.4	9756.9
47.5°	13123.2	13336.2	13464.5	13507.4	13464.5	13336.2	13123.2	12827.0	12449.5	11992.9	11460.0
45°	15482.5	15748.1	15908.2	15961.7	15908.2	15748.1	15482.5	15113.5	14643.7	14076.3	13426.7
42.5°	18207.4	18543.9	18746.9	18814.8	18746.9	18543.9	18207.4	17740.3	17146.4	16430.2	15648.1
40°	21236.8	21642.6	21887.6	21969.6	21887.6	21642.6	21236.8	20674.3	19960.1	19100.6	18171.0
37.5°	24624.1	25123.5	25425.5	25526.5	25425.5	25123.5	24624.1	23932.7	23056.7	22004.6	20920.2
35°	28361.5	28964.1	29328.9	29451.0	29328.9	28964.1	28361.5	27528.7	26475.9	25244.2	23924.7
32.5°	32465.5	33195.2	33637.6	33785.9	33637.6	33195.2	32465.5	31459.3	30190.7	28749.5	27171.9
30°	36655.0	37454.3	37939.8	38102.7	37939.8	37454.3	36655.0	35555.9	34174.8	32527.1	30637.4
27.5°	41026.8	41977.5	42556.4	42750.8	42556.4	41977.5	41026.8	39724.1	38094.7	36302.9	34260.1
25°	45714.8	46860.6	47560.6	47796.1	47560.6	46860.6	45714.8	44151.5	42248.7	40139.4	37774.3
22.5°	50570.9	51880.7	52684.2	52955.1	52684.2	51880.7	50570.9	48794.4	46624.7	44115.6	41407.9
20°	55343.6	56774.4	57657.3	57955.9	57657.3	56774.4	55343.6	53417.7	50997.8	48179.5	45098.0
17.5°	59974.7	61607.4	62623.2	62968.3	62623.2	61607.4	59974.7	57800.4	55172.5	52140.1	48718.2
15°	64332.5	65999.8	67049.6	67408.7	67049.6	65999.8	64332.5	62038.3	59092.1	55774.4	52140.1
12.5°	68179.2	69963.1	71026.7	71377.7	71026.7	69963.1	68179.2	65707.3	62753.8	59092.1	55172.5
10°	71410.7	73267.8	74378.9	74761.5	74378.9	73267.8	71410.7	68927.8	65707.3	62038.3	57800.4
7.5°	74018.7	75910.1	77085.5	77463.9	77085.5	75910.1	74018.7	71410.7	68179.2	64332.5	59974.7
5°	75910.1	77870.4	79008.3	79429.4	79008.3	77870.4	75910.1	73267.8	69963.1	65999.8	61607.4
2.5°	77085.5	79008.3	80193.3	80595.6	80193.3	79008.3	77085.5	74378.9	71026.7	67049.6	62623.2
0°	77463.9	79429.4	80595.6	81046.3	80595.6	79429.4	77463.9	74761.5	71377.7	67408.7	62968.3
-2.5°	77085.5	79008.3	80193.3	80595.6	80193.3	79008.3	77085.5	74378.9	71026.7	67049.6	62623.2
-5°	75910.1	77870.4	79008.3	79429.4	79008.3	77870.4	75910.1	73267.8	69963.1	65999.8	61607.4
-7.5°	74018.7	75910.1	77085.5	77463.9	77085.5	75910.1	74018.7	71410.7	68179.2	64332.5	59974.7
-10°	71410.7	73267.8	74378.9	74761.5	74378.9	73267.8	71410.7	68927.8	65707.3	62038.3	57800.4
-12.5°	68179.2	69963.1	71026.7	71377.7	71026.7	69963.1	68179.2	65707.3	62753.8	59092.1	55172.5
-15°	64332.5	65999.8	67049.6	67408.7	67049.6	65999.8	64332.5	62038.3	59092.1	55774.4	52140.1
-17.5°	59974.7	61607.4	62623.2	62968.3	62623.2	61607.4	59974.7	57800.4	55172.5	52140.1	48718.2
-20°	55343.6	56774.4	57657.3	57955.9	57657.3	56774.4	55343.6	53417.7	50997.8	48179.5	45098.0



REPORT NUMBER: P701462 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-80-7F-HEG-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	50570.9	51880.7	52684.2	52955.1	52684.2	51880.7	50570.9	48794.4	46624.7	44115.6	41407.9
-25°	45714.8	46860.6	47560.6	47796.1	47560.6	46860.6	45714.8	44151.5	42248.7	40139.4	37774.3
-27.5°	41026.8	41977.5	42556.4	42750.8	42556.4	41977.5	41026.8	39724.1	38094.7	36302.9	34260.1
-30°	36655.0	37454.3	37939.8	38102.7	37939.8	37454.3	36655.0	35555.9	34174.8	32527.1	30637.4
-32.5°	32465.5	33195.2	33637.6	33785.9	33637.6	33195.2	32465.5	31459.3	30190.7	28749.5	27171.9
-35°	28361.5	28964.1	29328.9	29451.0	29328.9	28964.1	28361.5	27528.7	26475.9	25244.2	23924.7
-37.5°	24624.1	25123.5	25425.5	25526.5	25425.5	25123.5	24624.1	23932.7	23056.7	22004.6	20920.2
-40°	21236.8	21642.6	21887.6	21969.6	21887.6	21642.6	21236.8	20674.3	19960.1	19100.6	18171.0
-42.5°	18207.4	18543.9	18746.9	18814.8	18746.9	18543.9	18207.4	17740.3	17146.4	16430.2	15648.1
-45°	15482.5	15748.1	15908.2	15961.7	15908.2	15748.1	15482.5	15113.5	14643.7	14076.3	13426.7
-47.5°	13123.2	13336.2	13464.5	13507.4	13464.5	13336.2	13123.2	12827.0	12449.5	11992.9	11460.0
-50°	11061.0	11227.6	11327.9	11361.4	11327.9	11227.6	11061.0	10829.2	10533.5	10175.4	9756.9
-52.5°	9289.8	9423.1	9503.4	9530.2	9503.4	9423.1	9289.8	9104.1	8866.9	8579.5	8243.2
-55°	7746.1	7847.0	7907.8	7928.1	7907.8	7847.0	7746.1	7605.4	7425.6	7207.6	6952.2
-57.5°	6454.5	6535.0	6583.4	6599.6	6583.4	6535.0	6454.5	6342.3	6198.8	6024.6	5820.4
-60°	5327.7	5387.7	5423.8	5435.9	5423.8	5387.7	5327.7	5243.9	5136.7	5006.5	4853.8
-62.5°	4393.4	4440.5	4468.8	4478.3	4468.8	4440.5	4393.4	4327.7	4243.6	4141.4	4021.5
-65°	3580.1	3616.6	3638.6	3645.9	3638.6	3616.6	3580.1	3529.2	3463.9	3384.6	3291.4
-67.5°	2875.5	2903.4	2920.1	2925.7	2920.1	2903.4	2875.5	2836.7	2786.9	2726.3	2655.2
-70°	2268.8	2290.3	2303.3	2307.6	2303.3	2290.3	2268.8	2238.7	2200.2	2153.3	2098.2
-72.5°	1734.1	1750.5	1760.3	1763.6	1760.3	1750.5	1734.1	1711.2	1681.8	1646.1	1604.1
-75°	1264.7	1276.3	1283.3	1285.6	1283.3	1276.3	1264.7	1248.4	1227.6	1202.3	1172.4
-77.5°	872.6	880.5	885.2	886.8	885.2	880.5	872.6	861.6	847.5	830.3	810.1
-80°	551.6	556.5	559.4	560.4	559.4	556.5	551.6	544.8	536.1	525.5	513.0
-82.5°	302.2	304.6	306.1	306.6	306.1	304.6	302.2	298.7	294.3	289.0	282.7
-85°	133.6	134.5	135.0	135.2	135.0	134.5	133.6	132.3	130.7	128.8	126.5
-87.5°	40.8	41.0	41.2	41.2	41.2	41.0	40.8	40.6	40.2	39.8	39.3
-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: P701462 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-80-7F-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°	38.7	38.1	37.3	36.5	35.7	34.7	33.7	32.7	31.6	30.4	29.1
85°	123.8	120.9	117.5	113.9	110.0	105.7	101.1	96.3	91.1	85.7	80.1
82.5°	275.4	267.3	258.2	248.2	237.4	225.7	213.2	199.9	185.8	171.0	155.5
80°	498.6	482.4	464.4	444.7	423.3	400.1	375.4	349.1	321.2	296.7	276.0
77.5°	786.9	760.8	731.8	699.9	665.3	628.0	588.1	549.0	514.1	477.4	438.9
75°	1138.2	1099.7	1056.9	1010.0	959.0	904.1	852.9	801.8	747.8	691.1	631.6
72.5°	1555.9	1501.6	1441.4	1375.4	1303.7	1236.4	1167.6	1094.5	1017.3	936.1	857.6
70°	2035.0	1963.9	1885.0	1798.5	1711.9	1623.2	1528.5	1427.9	1321.7	1222.7	1125.4
67.5°	2573.6	2481.9	2380.2	2273.4	2167.2	2052.9	1930.9	1801.5	1676.9	1551.0	1419.4
65°	3184.7	3064.7	2931.8	2806.1	2670.8	2525.5	2370.5	2218.4	2066.0	1906.1	1742.1
62.5°	3884.1	3729.8	3570.7	3409.2	3234.2	3046.5	2857.7	2675.9	2484.4	2286.6	2102.4
60°	4679.1	4483.0	4293.9	4088.0	3865.3	3629.1	3409.2	3176.5	2931.8	2711.0	2481.9
57.5°	5586.9	5344.8	5106.8	4847.2	4566.6	4293.9	4016.2	3722.8	3445.7	3166.8	2883.5
55°	6660.5	6366.7	6050.9	5706.7	5353.2	5026.3	4679.1	4334.5	4000.4	3651.5	3336.9
52.5°	7871.3	7515.5	7123.3	6696.4	6281.5	5851.2	5402.2	5006.5	4592.0	4201.4	3811.3
50°	9311.4	8845.3	8332.5	7801.3	7304.2	6774.0	6260.7	5743.6	5243.9	4780.4	4323.1
47.5°	10928.2	10351.2	9717.3	9092.3	8446.2	7787.5	7184.9	6557.9	5979.0	5387.7	4875.2
45°	12770.2	12039.1	11255.7	10515.2	9721.6	8960.0	8182.0	7462.6	6757.8	6097.7	5435.9
42.5°	14835.9	13933.5	13016.7	12084.0	11127.1	10225.1	9307.7	8439.1	7602.6	6826.8	6097.7
40°	17150.6	16019.6	14949.8	13805.6	12701.2	11572.9	10531.1	9483.1	8525.3	7602.6	6757.8
37.5°	19701.6	18398.7	17073.1	15692.4	14389.1	13076.7	11818.4	10633.7	9483.1	8439.1	7462.6
35°	22441.3	20938.2	19365.7	17789.8	16174.7	14684.2	13202.7	11818.4	10531.1	9307.7	8182.0
32.5°	25416.2	23657.9	21781.8	19983.1	18152.7	16351.5	14684.2	13076.7	11572.9	10225.1	8960.0
30°	28616.9	26531.1	24402.7	22240.2	20190.8	18152.7	16174.7	14389.1	12701.2	11127.1	9721.6
27.5°	31985.7	29509.8	27103.6	24653.5	22240.2	19983.1	17789.8	15692.4	13805.6	12084.0	10515.2
25°	35325.6	32672.9	29840.4	27103.6	24402.7	21781.8	19365.7	17073.1	14949.8	13016.7	11255.7
22.5°	38559.8	35685.8	32672.9	29509.8	26531.1	23657.9	20938.2	18398.7	16019.6	13933.5	12039.1
20°	41838.1	38559.8	35325.6	31985.7	28616.9	25416.2	22441.3	19701.6	17150.6	14835.9	12770.2
17.5°	45098.0	41407.9	37774.3	34260.1	30637.4	27171.9	23924.7	20920.2	18171.0	15648.1	13426.7
15°	48179.5	44115.6	40139.4	36302.9	32527.1	28749.5	25244.2	22004.6	19100.6	16430.2	14076.3
12.5°	50997.8	46624.7	42248.7	38094.7	34174.8	30190.7	26475.9	23056.7	19960.1	17146.4	14643.7
10°	53417.7	48794.4	44151.5	39724.1	35555.9	31459.3	27528.7	23932.7	20674.3	17740.3	15113.5
7.5°	55343.6	50570.9	45714.8	41026.8	36655.0	32465.5	28361.5	24624.1	21236.8	18207.4	15482.5
5°	56774.4	51880.7	46860.6	41977.5	37454.3	33195.2	28964.1	25123.5	21642.6	18543.9	15748.1
2.5°	57657.3	52684.2	47560.6	42556.4	37939.8	33637.6	29328.9	25425.5	21887.6	18746.9	15908.2
0°	57955.9	52955.1	47796.1	42750.8	38102.7	33785.9	29451.0	25526.5	21969.6	18814.8	15961.7
-2.5°	57657.3	52684.2	47560.6	42556.4	37939.8	33637.6	29328.9	25425.5	21887.6	18746.9	15908.2
-5°	56774.4	51880.7	46860.6	41977.5	37454.3	33195.2	28964.1	25123.5	21642.6	18543.9	15748.1
-7.5°	55343.6	50570.9	45714.8	41026.8	36655.0	32465.5	28361.5	24624.1	21236.8	18207.4	15482.5
-10°	53417.7	48794.4	44151.5	39724.1	35555.9	31459.3	27528.7	23932.7	20674.3	17740.3	15113.5
-12.5°	50997.8	46624.7	42248.7	38094.7	34174.8	30190.7	26475.9	23056.7	19960.1	17146.4	14643.7
-15°	48179.5	44115.6	40139.4	36302.9	32527.1	28749.5	25244.2	22004.6	19100.6	16430.2	14076.3
-17.5°	45098.0	41407.9	37774.3	34260.1	30637.4	27171.9	23924.7	20920.2	18171.0	15648.1	13426.7
-20°	41838.1	38559.8	35325.6	31985.7	28616.9	25416.2	22441.3	19701.6	17150.6	14835.9	12770.2



REPORT NUMBER: P701462 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-80-7F-HEG-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	38559.8	35685.8	32672.9	29509.8	26531.1	23657.9	20938.2	18398.7	16019.6	13933.5	12039.1
-25°	35325.6	32672.9	29840.4	27103.6	24402.7	21781.8	19365.7	17073.1	14949.8	13016.7	11255.7
-27.5°	31985.7	29509.8	27103.6	24653.5	22240.2	19983.1	17789.8	15692.4	13805.6	12084.0	10515.2
-30°	28616.9	26531.1	24402.7	22240.2	20190.8	18152.7	16174.7	14389.1	12701.2	11127.1	9721.6
-32.5°	25416.2	23657.9	21781.8	19983.1	18152.7	16351.5	14684.2	13076.7	11572.9	10225.1	8960.0
-35°	22441.3	20938.2	19365.7	17789.8	16174.7	14684.2	13202.7	11818.4	10531.1	9307.7	8182.0
-37.5°	19701.6	18398.7	17073.1	15692.4	14389.1	13076.7	11818.4	10633.7	9483.1	8439.1	7462.6
-40°	17150.6	16019.6	14949.8	13805.6	12701.2	11572.9	10531.1	9483.1	8525.3	7602.6	6757.8
-42.5°	14835.9	13933.5	13016.7	12084.0	11127.1	10225.1	9307.7	8439.1	7602.6	6826.8	6097.7
-45°	12770.2	12039.1	11255.7	10515.2	9721.6	8960.0	8182.0	7462.6	6757.8	6097.7	5435.9
-47.5°	10928.2	10351.2	9717.3	9092.3	8446.2	7787.5	7184.9	6557.9	5979.0	5387.7	4875.2
-50°	9311.4	8845.3	8332.5	7801.3	7304.2	6774.0	6260.7	5743.6	5243.9	4780.4	4323.1
-52.5°	7871.3	7515.5	7123.3	6696.4	6281.5	5851.2	5402.2	5006.5	4592.0	4201.4	3811.3
-55°	6660.5	6366.7	6050.9	5706.7	5353.2	5026.3	4679.1	4334.5	4000.4	3651.5	3336.9
-57.5°	5586.9	5344.8	5106.8	4847.2	4566.6	4293.9	4016.2	3722.8	3445.7	3166.8	2883.5
-60°	4679.1	4483.0	4293.9	4088.0	3865.3	3629.1	3409.2	3176.5	2931.8	2711.0	2481.9
-62.5°	3884.1	3729.8	3570.7	3409.2	3234.2	3046.5	2857.7	2675.9	2484.4	2286.6	2102.4
-65°	3184.7	3064.7	2931.8	2806.1	2670.8	2525.5	2370.5	2218.4	2066.0	1906.1	1742.1
-67.5°	2573.6	2481.9	2380.2	2273.4	2167.2	2052.9	1930.9	1801.5	1676.9	1551.0	1419.4
-70°	2035.0	1963.9	1885.0	1798.5	1711.9	1623.2	1528.5	1427.9	1321.7	1222.7	1125.4
-72.5°	1555.9	1501.6	1441.4	1375.4	1303.7	1236.4	1167.6	1094.5	1017.3	936.1	857.6
-75°	1138.2	1099.7	1056.9	1010.0	959.0	904.1	852.9	801.8	747.8	691.1	631.6
-77.5°	786.9	760.8	731.8	699.9	665.3	628.0	588.1	549.0	514.1	477.4	438.9
-80°	498.6	482.4	464.4	444.7	423.3	400.1	375.4	349.1	321.2	296.7	276.0
-82.5°	275.4	267.3	258.2	248.2	237.4	225.7	213.2	199.9	185.8	171.0	155.5
-85°	123.8	120.9	117.5	113.9	110.0	105.7	101.1	96.3	91.1	85.7	80.1
-87.5°	38.7	38.1	37.3	36.5	35.7	34.7	33.7	32.7	31.6	30.4	29.1
-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: P701462 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-80-7F-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°	27.8	26.5	25.1	23.6	22.1	20.6	19.0	17.4	15.8	14.1	12.4
85°	74.1	68.0	61.6	54.9	48.1	41.2	38.0	34.8	31.5	28.2	24.7
82.5°	139.2	128.2	118.6	108.6	98.4	87.9	77.1	66.1	54.9	43.4	37.1
80°	254.3	231.8	208.4	184.3	159.4	134.5	120.1	105.4	90.5	75.2	59.7
77.5°	398.8	357.1	313.8	281.3	250.3	218.3	185.6	152.2	125.8	106.8	87.5
75°	569.6	517.4	465.5	411.9	356.7	302.2	263.0	222.9	182.1	140.6	115.0
72.5°	785.2	709.9	631.9	553.5	489.1	423.1	355.5	293.0	245.4	197.1	148.1
70°	1024.0	918.7	823.8	731.9	637.3	544.8	467.7	388.9	308.7	253.0	197.1
67.5°	1282.9	1164.4	1041.8	915.4	804.0	695.0	583.6	490.1	400.1	308.7	245.4
65°	1589.6	1431.4	1271.0	1130.6	986.5	847.5	724.0	598.1	490.1	388.9	293.0
62.5°	1910.9	1718.8	1539.0	1354.0	1184.3	1022.2	862.1	724.0	583.6	467.7	355.5
60°	2251.6	2035.0	1811.7	1604.1	1397.2	1202.3	1022.2	847.5	695.0	544.8	423.1
57.5°	2625.1	2358.1	2110.0	1861.5	1625.9	1397.2	1184.3	986.5	804.0	637.3	489.1
55°	3011.9	2711.8	2415.6	2135.1	1861.5	1604.1	1354.0	1130.6	915.4	731.9	553.5
52.5°	3439.9	3080.0	2740.8	2415.6	2110.0	1811.7	1539.0	1271.0	1041.8	823.8	631.9
50°	3891.7	3474.3	3080.0	2711.8	2358.1	2035.0	1718.8	1431.4	1164.4	918.7	709.9
47.5°	4363.9	3891.7	3439.9	3011.9	2625.1	2251.6	1910.9	1589.6	1282.9	1024.0	785.2
45°	4875.2	4323.1	3811.3	3336.9	2883.5	2481.9	2102.4	1742.1	1419.4	1125.4	857.6
42.5°	5387.7	4780.4	4201.4	3651.5	3166.8	2711.0	2286.6	1906.1	1551.0	1222.7	936.1
40°	5979.0	5243.9	4592.0	4000.4	3445.7	2931.8	2484.4	2066.0	1676.9	1321.7	1017.3
37.5°	6557.9	5743.6	5006.5	4334.5	3722.8	3176.5	2675.9	2218.4	1801.5	1427.9	1094.5
35°	7184.9	6260.7	5402.2	4679.1	4016.2	3409.2	2857.7	2370.5	1930.9	1528.5	1167.6
32.5°	7787.5	6774.0	5851.2	5026.3	4293.9	3629.1	3046.5	2525.5	2052.9	1623.2	1236.4
30°	8446.2	7304.2	6281.5	5353.2	4566.6	3865.3	3234.2	2670.8	2167.2	1711.9	1303.7
27.5°	9092.3	7801.3	6696.4	5706.7	4847.2	4088.0	3409.2	2806.1	2273.4	1798.5	1375.4
25°	9717.3	8332.5	7123.3	6050.9	5106.8	4293.9	3570.7	2931.8	2380.2	1885.0	1441.4
22.5°	10351.2	8845.3	7515.5	6366.7	5344.8	4483.0	3729.8	3064.7	2481.9	1963.9	1501.6
20°	10928.2	9311.4	7871.3	6660.5	5586.9	4679.1	3884.1	3184.7	2573.6	2035.0	1555.9
17.5°	11460.0	9756.9	8243.2	6952.2	5820.4	4853.8	4021.5	3291.4	2655.2	2098.2	1604.1
15°	11992.9	10175.4	8579.5	7207.6	6024.6	5006.5	4141.4	3384.6	2726.3	2153.3	1646.1
12.5°	12449.5	10533.5	8866.9	7425.6	6198.8	5136.7	4243.6	3463.9	2786.9	2200.2	1681.8
10°	12827.0	10829.2	9104.1	7605.4	6342.3	5243.9	4327.7	3529.2	2836.7	2238.7	1711.2
7.5°	13123.2	11061.0	9289.8	7746.1	6454.5	5327.7	4393.4	3580.1	2875.5	2268.8	1734.1
5°	13336.2	11227.6	9423.1	7847.0	6535.0	5387.7	4440.5	3616.6	2903.4	2290.3	1750.5
2.5°	13464.5	11327.9	9503.4	7907.8	6583.4	5423.8	4468.8	3638.6	2920.1	2303.3	1760.3
0°	13507.4	11361.4	9530.2	7928.1	6599.6	5435.9	4478.3	3645.9	2925.7	2307.6	1763.6
-2.5°	13464.5	11327.9	9503.4	7907.8	6583.4	5423.8	4468.8	3638.6	2920.1	2303.3	1760.3
-5°	13336.2	11227.6	9423.1	7847.0	6535.0	5387.7	4440.5	3616.6	2903.4	2290.3	1750.5
-7.5°	13123.2	11061.0	9289.8	7746.1	6454.5	5327.7	4393.4	3580.1	2875.5	2268.8	1734.1
-10°	12827.0	10829.2	9104.1	7605.4	6342.3	5243.9	4327.7	3529.2	2836.7	2238.7	1711.2
-12.5°	12449.5	10533.5	8866.9	7425.6	6198.8	5136.7	4243.6	3463.9	2786.9	2200.2	1681.8
-15°	11992.9	10175.4	8579.5	7207.6	6024.6	5006.5	4141.4	3384.6	2726.3	2153.3	1646.1
-17.5°	11460.0	9756.9	8243.2	6952.2	5820.4	4853.8	4021.5	3291.4	2655.2	2098.2	1604.1
-20°	10928.2	9311.4	7871.3	6660.5	5586.9	4679.1	3884.1	3184.7	2573.6	2035.0	1555.9



REPORT NUMBER: P701462 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-80-7F-HEG-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	10351.2	8845.3	7515.5	6366.7	5344.8	4483.0	3729.8	3064.7	2481.9	1963.9	1501.6
-25°	9717.3	8332.5	7123.3	6050.9	5106.8	4293.9	3570.7	2931.8	2380.2	1885.0	1441.4
-27.5°	9092.3	7801.3	6696.4	5706.7	4847.2	4088.0	3409.2	2806.1	2273.4	1798.5	1375.4
-30°	8446.2	7304.2	6281.5	5353.2	4566.6	3865.3	3234.2	2670.8	2167.2	1711.9	1303.7
-32.5°	7787.5	6774.0	5851.2	5026.3	4293.9	3629.1	3046.5	2525.5	2052.9	1623.2	1236.4
-35°	7184.9	6260.7	5402.2	4679.1	4016.2	3409.2	2857.7	2370.5	1930.9	1528.5	1167.6
-37.5°	6557.9	5743.6	5006.5	4334.5	3722.8	3176.5	2675.9	2218.4	1801.5	1427.9	1094.5
-40°	5979.0	5243.9	4592.0	4000.4	3445.7	2931.8	2484.4	2066.0	1676.9	1321.7	1017.3
-42.5°	5387.7	4780.4	4201.4	3651.5	3166.8	2711.0	2286.6	1906.1	1551.0	1222.7	936.1
-45°	4875.2	4323.1	3811.3	3336.9	2883.5	2481.9	2102.4	1742.1	1419.4	1125.4	857.6
-47.5°	4363.9	3891.7	3439.9	3011.9	2625.1	2251.6	1910.9	1589.6	1282.9	1024.0	785.2
-50°	3891.7	3474.3	3080.0	2711.8	2358.1	2035.0	1718.8	1431.4	1164.4	918.7	709.9
-52.5°	3439.9	3080.0	2740.8	2415.6	2110.0	1811.7	1539.0	1271.0	1041.8	823.8	631.9
-55°	3011.9	2711.8	2415.6	2135.1	1861.5	1604.1	1354.0	1130.6	915.4	731.9	553.5
-57.5°	2625.1	2358.1	2110.0	1861.5	1625.9	1397.2	1184.3	986.5	804.0	637.3	489.1
-60°	2251.6	2035.0	1811.7	1604.1	1397.2	1202.3	1022.2	847.5	695.0	544.8	423.1
-62.5°	1910.9	1718.8	1539.0	1354.0	1184.3	1022.2	862.1	724.0	583.6	467.7	355.5
-65°	1589.6	1431.4	1271.0	1130.6	986.5	847.5	724.0	598.1	490.1	388.9	293.0
-67.5°	1282.9	1164.4	1041.8	915.4	804.0	695.0	583.6	490.1	400.1	308.7	245.4
-70°	1024.0	918.7	823.8	731.9	637.3	544.8	467.7	388.9	308.7	253.0	197.1
-72.5°	785.2	709.9	631.9	553.5	489.1	423.1	355.5	293.0	245.4	197.1	148.1
-75°	569.6	517.4	465.5	411.9	356.7	302.2	263.0	222.9	182.1	140.6	115.0
-77.5°	398.8	357.1	313.8	281.3	250.3	218.3	185.6	152.2	125.8	106.8	87.5
-80°	254.3	231.8	208.4	184.3	159.4	134.5	120.1	105.4	90.5	75.2	59.7
-82.5°	139.2	128.2	118.6	108.6	98.4	87.9	77.1	66.1	54.9	43.4	37.1
-85°	74.1	68.0	61.6	54.9	48.1	41.2	38.0	34.8	31.5	28.2	24.7
-87.5°	27.8	26.5	25.1	23.6	22.1	20.6	19.0	17.4	15.8	14.1	12.4
-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: P701462 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-80-7F-HEG-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.7	8.9	7.2	5.4	3.6	1.8	0.0
85°	21.3	17.8	14.3	10.7	7.2	3.6	0.0
82.5°	31.9	26.7	21.4	16.1	10.7	5.4	0.0
80°	44.1	35.5	28.5	21.4	14.3	7.2	0.0
77.5°	67.9	48.2	35.5	26.7	17.8	8.9	0.0
75°	91.6	67.9	44.1	31.9	21.3	10.7	0.0
72.5°	115.0	87.5	59.7	37.1	24.7	12.4	0.0
70°	140.6	106.8	75.2	43.4	28.2	14.1	0.0
67.5°	182.1	125.8	90.5	54.9	31.5	15.8	0.0
65°	222.9	152.2	105.4	66.1	34.8	17.4	0.0
62.5°	263.0	185.6	120.1	77.1	38.0	19.0	0.0
60°	302.2	218.3	134.5	87.9	41.2	20.6	0.0
57.5°	356.7	250.3	159.4	98.4	48.1	22.1	0.0
55°	411.9	281.3	184.3	108.6	54.9	23.6	0.0
52.5°	465.5	313.8	208.4	118.6	61.6	25.1	0.0
50°	517.4	357.1	231.8	128.2	68.0	26.5	0.0
47.5°	569.6	398.8	254.3	139.2	74.1	27.8	0.0
45°	631.6	438.9	276.0	155.5	80.1	29.1	0.0
42.5°	691.1	477.4	296.7	171.0	85.7	30.4	0.0
40°	747.8	514.1	321.2	185.8	91.1	31.6	0.0
37.5°	801.8	549.0	349.1	199.9	96.3	32.7	0.0
35°	852.9	588.1	375.4	213.2	101.1	33.7	0.0
32.5°	904.1	628.0	400.1	225.7	105.7	34.7	0.0
30°	959.0	665.3	423.3	237.4	110.0	35.7	0.0
27.5°	1010.0	699.9	444.7	248.2	113.9	36.5	0.0
25°	1056.9	731.8	464.4	258.2	117.5	37.3	0.0
22.5°	1099.7	760.8	482.4	267.3	120.9	38.1	0.0
20°	1138.2	786.9	498.6	275.4	123.8	38.7	0.0
17.5°	1172.4	810.1	513.0	282.7	126.5	39.3	0.0
15°	1202.3	830.3	525.5	289.0	128.8	39.8	0.0
12.5°	1227.6	847.5	536.1	294.3	130.7	40.2	0.0
10°	1248.4	861.6	544.8	298.7	132.3	40.6	0.0
7.5°	1264.7	872.6	551.6	302.2	133.6	40.8	0.0
5°	1276.3	880.5	556.5	304.6	134.5	41.0	0.0
2.5°	1283.3	885.2	559.4	306.1	135.0	41.2	0.0
0°	1285.6	886.8	560.4	306.6	135.2	41.2	0.0
-2.5°	1283.3	885.2	559.4	306.1	135.0	41.2	0.0
-5°	1276.3	880.5	556.5	304.6	134.5	41.0	0.0
-7.5°	1264.7	872.6	551.6	302.2	133.6	40.8	0.0
-10°	1248.4	861.6	544.8	298.7	132.3	40.6	0.0
-12.5°	1227.6	847.5	536.1	294.3	130.7	40.2	0.0
-15°	1202.3	830.3	525.5	289.0	128.8	39.8	0.0
-17.5°	1172.4	810.1	513.0	282.7	126.5	39.3	0.0
-20°	1138.2	786.9	498.6	275.4	123.8	38.7	0.0



REPORT NUMBER: P701462 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-80-7F-HEG-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	1099.7	760.8	482.4	267.3	120.9	38.1	0.0
-25°	1056.9	731.8	464.4	258.2	117.5	37.3	0.0
-27.5°	1010.0	699.9	444.7	248.2	113.9	36.5	0.0
-30°	959.0	665.3	423.3	237.4	110.0	35.7	0.0
-32.5°	904.1	628.0	400.1	225.7	105.7	34.7	0.0
-35°	852.9	588.1	375.4	213.2	101.1	33.7	0.0
-37.5°	801.8	549.0	349.1	199.9	96.3	32.7	0.0
-40°	747.8	514.1	321.2	185.8	91.1	31.6	0.0
-42.5°	691.1	477.4	296.7	171.0	85.7	30.4	0.0
-45°	631.6	438.9	276.0	155.5	80.1	29.1	0.0
-47.5°	569.6	398.8	254.3	139.2	74.1	27.8	0.0
-50°	517.4	357.1	231.8	128.2	68.0	26.5	0.0
-52.5°	465.5	313.8	208.4	118.6	61.6	25.1	0.0
-55°	411.9	281.3	184.3	108.6	54.9	23.6	0.0
-57.5°	356.7	250.3	159.4	98.4	48.1	22.1	0.0
-60°	302.2	218.3	134.5	87.9	41.2	20.6	0.0
-62.5°	263.0	185.6	120.1	77.1	38.0	19.0	0.0
-65°	222.9	152.2	105.4	66.1	34.8	17.4	0.0
-67.5°	182.1	125.8	90.5	54.9	31.5	15.8	0.0
-70°	140.6	106.8	75.2	43.4	28.2	14.1	0.0
-72.5°	115.0	87.5	59.7	37.1	24.7	12.4	0.0
-75°	91.6	67.9	44.1	31.9	21.3	10.7	0.0
-77.5°	67.9	48.2	35.5	26.7	17.8	8.9	0.0
-80°	44.1	35.5	28.5	21.4	14.3	7.2	0.0
-82.5°	31.9	26.7	21.4	16.1	10.7	5.4	0.0
-85°	21.3	17.8	14.3	10.7	7.2	3.6	0.0
-87.5°	10.7	8.9	7.2	5.4	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

