

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: P701506 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 8/29/2023

Test Information

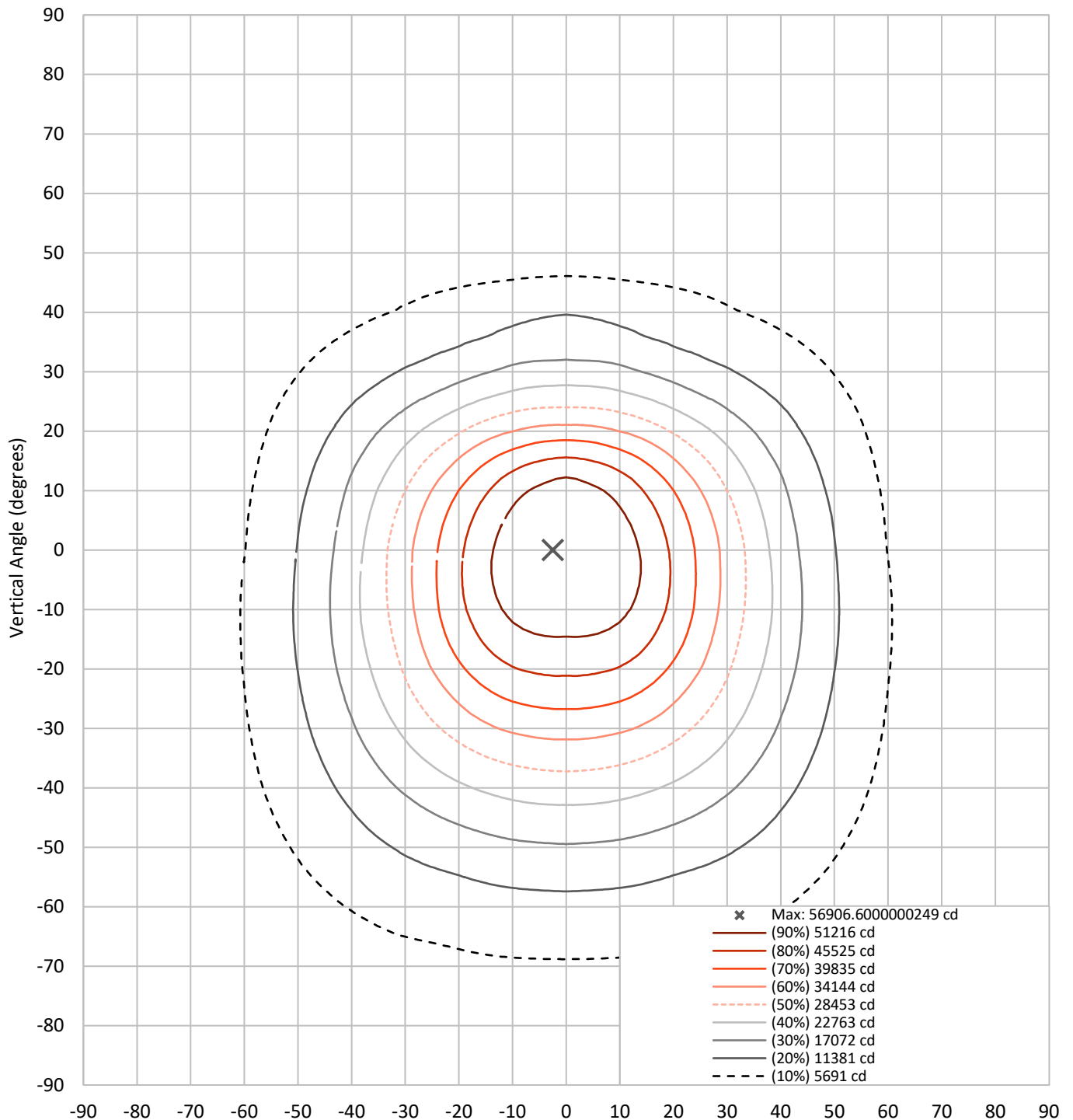
Test Method: LM-79-08
Report Number: P701506 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-6)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0640L-40-80-7F-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 7F BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	75706.7 lumens	Max Intensity:	56906.6 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	115.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	66.6°H x 61.2°V	Field Angle (10%):	119.6°H x 114.9°V
Beam Lumens:	41105 lumens	Field Lumens:	70944 lumens
Beam Efficiency:	54.3%	Field Efficiency:	93.7%
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





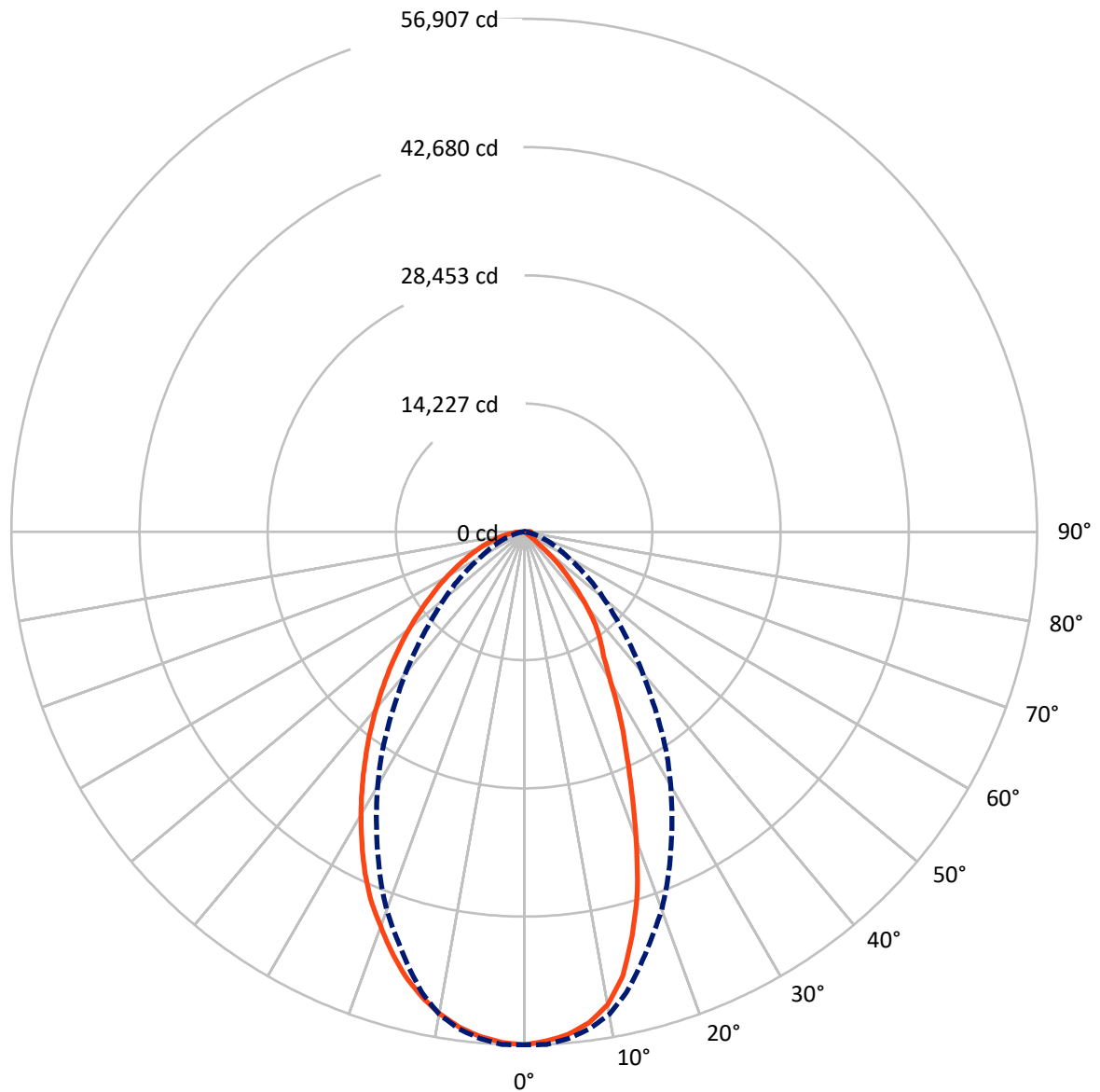
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Lumen Table

90																
80	1.3	6.2		14.0		17.6		19.2		17.6		14.0		6.2		1.3
70																
60	4.5	3.1	4.3	4.9	3.7	2.2	1.5	1.3	1.3	1.5	2.2	3.7	4.9	4.3	3.1	4.5
50		6.3	8.0	8.2	9.1	11.8	16.3	18.2	18.2	16.3	11.8	9.1	8.2	8.0	6.3	
40	11.7	12.2	22.9	45.2	79.0	122.3	163.6	192.9	192.9	163.6	122.3	79.0	45.2	22.9	12.2	11.7
30		22.4	56.7	116.4	192.4	276.7	362.6	437.8	437.8	362.6	276.7	192.4	116.4	56.7	22.4	
20	20.7	33.1	91.0	192.6	337.4	513.3	694.6	811.1	811.1	694.6	513.3	337.4	192.6	91.0	33.1	20.7
10		42.0	120.0	269.9	506.5	816.9	1140.9	1359.0	1359.0	1140.9	816.9	506.5	269.9	120.0	42.0	
0	26.2	48.8	140.8	323.8	624.6	1018.0	1404.2	1656.7	1656.7	1404.2	1018.0	624.6	323.8	140.8	48.8	26.2
-10		53.1	153.1	349.0	666.5	1068.3	1460.4	1677.8	1677.8	1460.4	1068.3	666.5	349.0	153.1	53.1	
-20	27.6	54.3	153.6	345.2	638.8	1008.0	1349.9	1524.5	1524.5	1349.9	1008.0	638.8	345.2	153.6	54.3	27.6
-30		51.7	141.7	309.5	558.4	852.2	1114.4	1249.0	1249.0	1114.4	852.2	558.4	309.5	141.7	51.7	
-40	23.1	46.2	122.3	256.2	444.7	653.2	827.6	922.9	922.9	827.6	653.2	444.7	256.2	122.3	46.2	23.1
-50		38.5	97.6	194.8	323.8	456.2	565.0	626.9	626.9	565.0	456.2	323.8	194.8	97.6	38.5	
-60	14.8	29.8	71.7	135.4	215.1	291.0	354.5	390.4	390.4	354.5	291.0	215.1	135.4	71.7	29.8	14.8
-70		20.5	46.9	84.8	129.8	169.5	204.0	221.7	221.7	204.0	169.5	129.8	84.8	46.9	20.5	
-80																
-90	6.6	54.5		152.7		249.1		290.4		249.1		152.7		54.5		6.6

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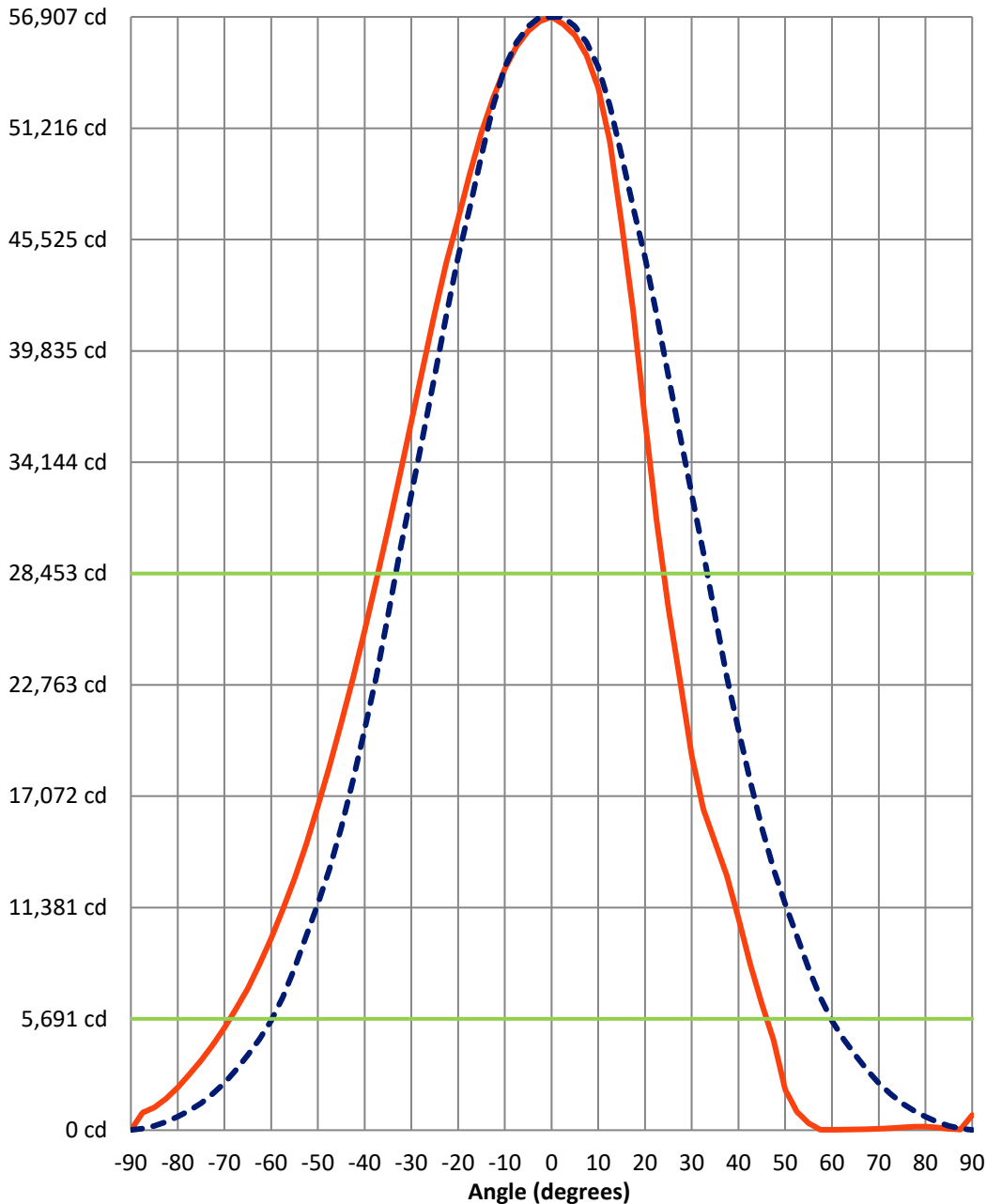
Luminous Intensity Polar Plot



— Vertical Distribution Through -2.5-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 66.6°
 V Angle: 61.2°
 Lumens: 41105
 Efficiency: 54.3%

Field:
 H Angle: 119.6°
 V Angle: 114.9°
 Lumens: 70944
 Efficiency: 93.7%

Spill:
 Lumens: 4762.6
 Efficiency: 6.3%

— Vertical Distribution through -2.5-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°	12.4	43.4	74.3	115.0	155.8	196.5	237.2	266.9	296.5	326.2	355.8
87.5°	12.4	15.8	18.1	19.6	20.8	21.8	22.4	22.4	22.1	21.5	20.7
85°	12.4	18.2	21.9	24.9	27.4	29.3	30.7	31.1	30.9	30.2	29.0
82.5°	12.4	20.7	25.8	30.3	34.0	36.9	38.9	39.8	40.5	43.5	45.8
80°	12.4	23.1	29.6	35.6	40.6	44.5	48.1	54.3	59.6	64.1	67.6
77.5°	12.4	25.6	33.5	41.0	47.2	55.1	64.1	71.8	78.8	84.7	87.4
75°	12.4	28.0	37.4	46.3	55.4	71.4	80.4	89.2	98.3	104.3	101.4
72.5°	12.4	30.4	41.4	51.6	70.7	88.0	97.1	108.8	122.0	124.6	117.0
70°	12.4	32.9	45.3	58.3	86.2	104.8	115.6	135.2	146.8	146.9	150.2
67.5°	12.4	35.2	49.3	71.4	101.7	121.9	143.9	162.3	173.2	188.3	189.5
65°	12.4	37.6	53.3	84.4	117.4	144.3	172.9	190.4	216.5	231.4	234.6
62.5°	12.4	40.0	57.3	97.4	133.2	172.1	202.8	229.4	261.2	279.2	291.1
60°	12.4	42.3	61.4	110.3	149.1	200.3	233.5	273.3	307.4	339.5	351.2
57.5°	12.4	44.6	70.8	123.2	173.3	229.0	275.8	318.9	365.7	402.7	421.4
55°	12.4	46.9	80.2	136.1	198.1	258.1	320.3	367.8	428.6	471.4	500.0
52.5°	12.4	49.1	89.4	148.8	222.9	289.3	365.7	429.2	493.6	553.0	584.4
50°	12.4	51.3	98.4	161.5	247.7	329.0	411.8	493.5	564.6	639.0	690.6
47.5°	12.4	53.5	107.3	175.7	272.6	368.9	460.2	559.1	647.5	729.3	807.8
45°	12.4	55.6	116.0	194.5	297.4	409.0	518.2	626.0	737.1	845.8	934.5
42.5°	12.4	57.7	124.4	213.0	322.2	449.1	576.5	701.8	829.7	969.4	1104.8
40°	12.4	59.7	132.7	231.2	350.4	489.3	635.2	784.1	930.5	1098.9	1294.2
37.5°	12.4	61.7	140.7	249.0	381.6	529.3	694.0	867.6	1043.1	1237.4	1496.9
35°	12.4	63.6	148.4	266.2	412.2	574.1	752.8	952.0	1154.7	1398.7	1723.1
32.5°	12.4	65.5	155.9	282.8	442.3	620.8	814.7	1036.9	1265.0	1553.4	1922.3
30°	12.4	67.2	163.1	298.8	471.7	666.8	883.6	1123.8	1373.7	1701.4	2109.1
27.5°	12.4	68.9	170.0	314.0	498.4	711.7	951.7	1214.4	1487.4	1842.2	2283.1
25°	12.4	70.6	176.5	328.5	523.7	755.6	1018.7	1302.6	1607.2	1986.0	2445.2
22.5°	12.4	72.1	182.7	342.1	547.7	796.0	1084.2	1388.1	1720.5	2124.7	2615.6
20°	12.4	73.6	188.5	355.0	570.2	829.7	1147.9	1470.6	1827.2	2252.5	2776.4
17.5°	12.4	74.9	193.9	367.0	591.2	860.8	1197.9	1549.7	1927.0	2369.5	2926.8
15°	12.4	76.2	199.0	378.1	610.7	889.3	1236.8	1616.2	2020.0	2475.8	3066.4
12.5°	12.4	77.3	203.5	388.2	628.5	915.1	1271.2	1668.1	2101.8	2571.6	3194.4
10°	12.4	78.4	207.7	397.3	644.6	938.2	1301.0	1716.3	2175.3	2684.1	3324.8
7.5°	12.4	79.3	211.4	405.4	658.9	958.5	1326.3	1760.2	2243.5	2795.4	3473.3
5°	12.4	80.1	214.6	412.4	671.4	975.9	1347.1	1799.3	2305.4	2900.5	3609.3
2.5°	12.4	80.8	217.3	418.3	681.9	990.4	1363.5	1832.9	2360.4	2997.2	3731.6
0°	12.4	81.4	219.5	423.1	690.4	1001.9	1375.4	1860.4	2407.4	3083.6	3839.4
-2.5°	12.4	83.0	222.9	429.5	701.7	1020.6	1408.5	1906.1	2466.1	3144.2	3907.6
-5°	12.4	84.5	225.7	434.7	710.8	1036.1	1436.7	1944.8	2515.7	3192.8	3960.2
-7.5°	12.4	85.8	228.0	438.6	717.7	1048.2	1459.8	1975.9	2555.7	3229.4	3997.0
-10°	12.4	86.9	229.7	441.3	722.3	1056.8	1477.1	1999.2	2585.8	3254.2	4017.9
-12.5°	12.4	88.0	230.9	442.7	724.5	1061.8	1488.3	2014.3	2605.6	3268.2	4034.4
-15°	12.4	88.8	231.5	442.7	724.3	1062.9	1493.1	2021.0	2612.4	3274.0	4038.3
-17.5°	12.4	89.6	231.6	441.4	721.5	1060.2	1491.2	2016.3	2604.9	3265.4	4023.3
-20°	12.4	90.1	231.0	438.7	716.2	1053.4	1482.9	2001.4	2585.9	3242.0	3989.0



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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°	12.4	90.5	229.9	434.6	708.2	1042.5	1469.9	1978.6	2555.0	3203.7	3935.0
-25°	12.4	90.7	228.2	429.1	697.7	1031.8	1451.1	1947.8	2512.2	3150.2	3861.1
-27.5°	12.4	90.8	226.0	422.2	684.4	1018.6	1426.5	1909.0	2457.3	3085.6	3788.5
-30°	12.4	90.7	223.1	413.9	669.0	1000.9	1396.2	1862.4	2399.6	3014.2	3698.8
-32.5°	12.4	90.4	219.7	404.2	654.9	978.8	1360.2	1817.8	2337.9	2928.2	3591.1
-35°	12.4	90.0	215.8	393.1	638.0	952.2	1326.7	1769.6	2267.1	2827.7	3465.6
-37.5°	12.4	89.4	211.3	380.6	618.3	923.7	1290.8	1714.7	2187.4	2712.9	3335.2
-40°	12.4	88.6	206.2	366.7	595.8	896.2	1249.0	1653.4	2099.0	2605.3	3198.1
-42.5°	12.4	87.7	200.6	352.4	574.9	865.0	1201.6	1585.7	2015.1	2498.7	3047.9
-45°	12.4	86.6	194.4	338.2	556.1	830.0	1148.4	1516.5	1930.2	2379.2	2889.0
-47.5°	12.4	85.4	187.8	322.6	535.0	791.4	1089.8	1447.2	1838.1	2247.4	2739.3
-50°	12.4	84.0	180.6	311.5	511.8	749.2	1036.5	1371.1	1735.1	2129.1	2574.5
-52.5°	12.4	82.4	173.0	301.3	486.5	703.6	980.5	1288.4	1630.9	2000.5	2398.8
-55°	12.4	80.7	164.8	289.9	459.1	666.0	920.1	1201.2	1522.2	1862.1	2240.6
-57.5°	12.4	78.8	156.2	277.4	429.8	627.8	855.5	1123.5	1406.3	1724.9	2071.3
-60°	12.4	76.8	147.3	263.8	399.1	587.1	789.0	1038.5	1287.9	1582.4	1897.0
-62.5°	12.4	74.6	142.6	249.3	377.9	543.8	734.7	948.0	1180.6	1432.3	1724.8
-65°	12.4	72.3	137.7	233.8	355.2	498.2	677.3	859.6	1068.0	1295.6	1544.2
-67.5°	12.4	69.9	132.4	217.4	331.1	457.8	617.1	783.7	950.6	1158.4	1377.2
-70°	12.4	67.4	126.9	200.1	305.7	423.0	554.2	704.9	856.4	1015.8	1212.8
-72.5°	12.4	64.7	121.0	189.4	279.1	386.5	504.2	623.5	759.7	902.2	1050.8
-75°	12.4	61.9	115.0	179.9	251.4	348.4	454.3	554.8	660.2	786.1	917.2
-77.5°	12.4	59.0	108.7	170.0	234.5	308.9	402.7	489.7	579.5	674.1	780.3
-80°	12.4	56.1	102.1	159.7	219.7	281.9	349.4	422.9	499.1	579.1	662.8
-82.5°	12.4	53.0	95.4	149.0	204.4	261.4	319.9	366.9	417.0	482.2	550.1
-85°	12.4	49.9	88.5	138.0	188.6	240.2	293.0	334.1	375.4	417.2	459.3
-87.5°	12.4	46.6	81.5	126.6	172.3	218.6	265.4	300.7	336.2	372.0	407.9
-90°	12.4	13.3	14.2	14.2	14.2	14.2	14.2	13.8	13.3	12.9	12.4



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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°	381.9	408.0	434.1	460.2	485.9	511.6	537.2	562.9	586.8	610.7	634.6
87.5°	21.2	21.7	22.2	22.6	21.7	20.6	19.4	18.1	19.6	21.2	23.0
85°	30.0	31.0	33.6	35.6	36.9	38.8	41.1	43.9	49.1	54.3	59.4
82.5°	49.9	53.2	55.6	57.1	62.0	68.1	74.6	80.7	86.5	92.1	97.4
80°	72.1	75.5	76.2	77.0	83.5	91.5	100.0	108.8	115.9	122.5	128.6
77.5°	88.2	90.2	92.5	95.1	103.5	115.2	126.8	138.6	147.3	154.2	160.5
75°	100.9	104.6	113.0	118.3	127.7	141.2	154.9	168.1	176.7	181.5	184.6
72.5°	121.6	133.8	141.3	144.2	153.3	169.4	183.8	196.6	203.2	202.3	198.1
70°	153.5	164.8	174.7	178.3	182.3	197.9	209.6	218.7	222.8	214.7	198.8
67.5°	187.9	205.3	214.3	214.8	209.2	222.7	233.2	231.9	224.8	207.3	186.4
65°	232.0	248.7	256.7	253.4	238.3	241.4	240.7	234.4	218.2	194.2	169.2
62.5°	281.5	296.4	302.7	294.3	266.8	255.1	248.3	232.1	207.5	183.9	160.2
60°	344.4	347.8	351.8	336.7	302.2	269.5	256.7	240.6	214.2	181.8	162.4
57.5°	415.0	403.6	405.5	388.6	348.8	290.5	284.8	264.3	242.0	199.4	179.4
55°	496.3	465.3	470.2	454.8	418.2	353.1	331.0	328.1	296.8	263.3	226.4
52.5°	594.0	551.7	550.7	548.3	528.5	472.4	421.8	457.0	476.7	439.3	463.1
50°	703.7	682.6	650.8	687.7	699.4	669.7	625.2	723.5	842.0	896.2	894.8
47.5°	849.3	836.9	809.4	876.2	959.7	1036.1	1054.5	1232.1	1411.5	1609.8	1633.4
45°	1020.8	1052.4	1036.7	1178.5	1357.3	1562.9	1715.7	1888.0	2296.3	2533.2	2884.1
42.5°	1211.2	1303.2	1387.0	1521.0	1942.5	2204.3	2434.7	2867.2	3273.3	3616.8	3979.3
40°	1456.3	1577.3	1760.4	2124.8	2579.3	2882.2	3278.9	3771.7	4183.0	4570.8	4942.0
37.5°	1722.0	1924.2	2172.2	2694.4	3211.6	3591.2	4076.9	4565.6	5033.2	5468.4	5987.3
35°	2002.8	2272.2	2662.7	3208.4	3751.1	4279.8	4814.3	5358.7	5892.4	6488.6	7072.2
32.5°	2308.6	2620.7	3113.5	3693.0	4300.5	4914.7	5535.7	6171.3	6849.6	7544.7	8163.9
30°	2584.4	3008.8	3533.4	4161.9	4847.4	5552.9	6277.6	7009.0	7841.9	8664.7	9407.4
27.5°	2795.2	3364.3	3950.2	4644.9	5396.0	6182.7	7022.3	7928.7	8898.3	9841.5	10723.2
25°	2997.3	3637.9	4349.8	5127.6	5962.1	6846.6	7785.8	8800.5	9990.3	11095.5	12195.3
22.5°	3209.1	3913.5	4681.7	5598.1	6513.1	7519.8	8561.9	9729.7	11044.6	12351.0	13687.7
20°	3434.4	4198.7	5009.4	5975.7	7028.7	8183.0	9292.3	10651.5	12114.2	13632.5	15262.8
17.5°	3654.1	4460.9	5326.9	6345.5	7486.7	8779.6	9996.6	11543.8	13164.7	14901.2	16745.2
15°	3865.7	4699.8	5616.6	6685.4	7929.8	9302.3	10725.6	12420.9	14233.8	16150.8	18087.3
12.5°	4066.9	4915.5	5877.7	6994.1	8343.5	9810.2	11378.1	13161.1	15146.7	17265.7	19376.5
10°	4255.0	5108.1	6109.7	7269.8	8722.9	10294.5	11958.9	13822.7	15887.2	18070.5	20424.7
7.5°	4397.5	5268.0	6314.3	7511.2	9063.0	10745.8	12467.2	14402.5	16513.1	18787.0	21317.8
5°	4506.7	5397.9	6503.5	7789.8	9389.8	11119.2	12885.3	14896.8	17026.1	19403.5	22088.8
2.5°	4589.6	5507.7	6665.6	8048.7	9682.4	11373.6	13158.0	15221.3	17487.6	19979.2	22715.5
0°	4650.2	5595.4	6797.4	8270.1	9919.9	11560.8	13359.3	15456.9	17862.5	20466.4	23178.3
-2.5°	4753.0	5751.0	6981.6	8445.6	10068.1	11744.1	13618.7	15784.9	18218.1	20773.7	23577.3
-5°	4835.3	5879.0	7130.6	8577.5	10164.6	11864.1	13797.3	16013.1	18450.9	20980.7	23783.3
-7.5°	4894.9	5975.9	7242.4	8665.1	10229.1	11961.0	13922.3	16126.6	18538.1	21104.3	23815.5
-10°	4930.1	6021.7	7277.6	8691.1	10263.9	12013.3	13970.2	16143.3	18512.0	21075.2	23727.3
-12.5°	4943.4	6020.7	7266.7	8669.9	10237.2	11988.4	13932.2	16064.5	18375.5	20888.0	23502.4
-15°	4934.6	5989.8	7216.2	8601.1	10147.0	11883.3	13807.6	15892.3	18122.2	20506.4	23047.2
-17.5°	4903.7	5929.0	7125.3	8484.2	9992.0	11696.0	13585.3	15573.8	17758.2	20066.0	22469.0
-20°	4850.7	5838.1	6993.9	8319.2	9780.4	11449.9	13271.4	15196.2	17294.6	19540.3	21821.2



REPORT NUMBER: P701506 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	4775.7	5717.4	6840.3	8133.4	9577.4	11170.2	12896.5	14742.0	16703.9	18913.1	21086.7
-25°	4689.5	5610.8	6679.6	7931.0	9320.7	10842.6	12457.6	14222.2	16073.9	18141.4	20245.5
-27.5°	4591.2	5481.3	6508.4	7688.3	9005.8	10478.5	12022.6	13679.1	15432.4	17291.4	19308.8
-30°	4469.7	5334.1	6303.3	7422.6	8686.8	10082.1	11566.9	13064.3	14725.1	16477.8	18327.0
-32.5°	4325.7	5156.2	6098.7	7164.7	8339.6	9623.4	11035.0	12458.9	13991.3	15613.4	17327.2
-35°	4171.5	4975.7	5870.8	6870.9	7958.7	9161.8	10451.1	11805.5	13214.7	14739.1	16246.6
-37.5°	4016.3	4769.3	5604.6	6559.9	7601.8	8670.7	9830.3	11118.8	12439.4	13787.1	15171.6
-40°	3841.7	4537.4	5339.7	6230.4	7173.8	8165.6	9252.2	10402.3	11630.0	12845.9	14086.8
-42.5°	3651.5	4323.5	5059.0	5853.8	6736.7	7659.6	8634.5	9710.8	10780.9	11885.2	13031.0
-45°	3471.1	4089.8	4760.3	5499.0	6279.4	7132.8	8042.8	8983.5	9946.8	10922.7	11965.8
-47.5°	3277.1	3847.1	4478.6	5119.0	5836.0	6608.5	7426.7	8273.2	9107.6	10002.4	10893.9
-50°	3075.1	3619.4	4163.4	4758.6	5395.5	6088.7	6830.9	7560.9	8323.9	9098.6	9902.3
-52.5°	2872.5	3378.1	3870.9	4391.9	4968.0	5583.6	6230.2	6882.4	7560.5	8242.5	8931.3
-55°	2653.8	3122.9	3570.1	4040.6	4545.8	5097.4	5644.9	6231.6	6819.3	7443.4	8009.3
-57.5°	2446.9	2846.9	3260.9	3690.8	4142.9	4612.4	5098.6	5589.5	6124.4	6662.6	7147.4
-60°	2242.9	2581.4	2942.9	3336.0	3740.6	4156.4	4559.4	4997.5	5450.0	5890.7	6334.4
-62.5°	2031.3	2331.0	2640.1	2973.7	3341.9	3700.1	4063.8	4433.0	4801.6	5192.6	5567.7
-65°	1822.6	2078.2	2352.3	2641.3	2937.4	3261.0	3580.8	3892.5	4221.8	4541.8	4852.6
-67.5°	1604.6	1838.7	2073.3	2314.1	2578.9	2843.2	3109.1	3395.5	3673.6	3935.1	4198.6
-70°	1409.8	1598.2	1805.9	2018.4	2229.1	2445.9	2682.0	2918.8	3151.1	3374.0	3602.0
-72.5°	1216.2	1385.2	1554.9	1725.1	1908.2	2090.8	2275.2	2461.0	2655.3	2849.7	3038.7
-75°	1043.6	1170.3	1317.9	1468.0	1611.0	1750.5	1893.2	2051.1	2206.5	2359.0	2510.2
-77.5°	886.3	993.3	1103.8	1217.8	1326.6	1443.5	1561.0	1678.7	1794.6	1908.0	2019.1
-80°	738.4	813.4	902.4	994.7	1081.2	1166.4	1251.6	1336.6	1422.4	1512.3	1605.0
-82.5°	611.2	672.4	734.3	796.8	854.2	910.3	968.3	1034.7	1102.6	1170.0	1236.7
-85°	494.9	530.0	577.5	625.6	671.4	716.7	761.3	805.2	850.4	894.9	938.7
-87.5°	438.7	469.3	499.7	530.0	559.2	588.1	616.8	645.2	674.3	703.3	732.3
-90°	12.4	12.4	12.4	12.4	12.0	11.5	11.1	10.6	10.2	9.8	9.3



REPORT NUMBER: P701506 (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°	658.5	666.0	673.6	681.1	688.6	706.3	724.0	741.7	759.4	763.4	767.4
87.5°	24.8	24.8	24.8	24.8	24.8	28.7	32.8	37.0	41.2	40.7	40.2
85°	64.4	65.3	65.7	65.7	65.4	70.9	76.4	81.8	86.9	83.4	79.4
82.5°	102.5	104.4	106.1	108.0	109.9	115.6	121.2	126.5	131.4	133.1	134.6
80°	134.2	137.7	140.3	142.4	143.9	148.7	153.9	158.8	163.5	168.5	173.5
77.5°	165.0	166.1	165.5	163.8	161.2	162.0	163.1	163.7	163.8	166.3	169.3
75°	186.2	183.7	176.5	168.1	158.7	152.9	148.7	144.2	139.6	138.8	139.1
72.5°	190.9	181.3	169.3	154.4	139.7	129.6	122.7	116.0	109.7	106.6	104.7
70°	180.8	162.2	146.1	130.1	114.6	103.1	96.2	89.9	84.2	80.5	77.9
67.5°	162.8	139.8	122.9	106.5	91.3	79.4	73.4	67.9	62.8	59.1	56.4
65°	144.6	120.1	103.7	88.0	72.7	60.9	56.3	51.8	47.3	44.0	42.2
62.5°	134.4	108.8	91.8	78.0	64.2	50.6	45.8	41.1	36.5	32.9	31.3
60°	138.0	108.9	88.3	75.6	61.2	45.5	39.5	35.3	30.5	26.3	24.7
57.5°	159.6	127.9	97.1	92.1	77.6	54.4	56.6	65.9	58.9	40.6	38.6
55°	244.2	236.3	154.7	200.2	232.8	219.3	204.8	271.1	303.5	305.1	335.1
52.5°	485.2	542.5	521.2	546.0	680.6	735.1	727.9	846.5	907.9	899.6	931.6
50°	1021.7	1138.9	1283.2	1306.5	1532.3	1688.9	1726.7	1864.0	2016.4	2074.8	2140.4
47.5°	1993.9	2268.6	2408.0	2565.2	2825.1	3109.9	3330.5	3528.1	3742.3	3888.7	4065.4
45°	3248.0	3442.1	3684.6	4049.7	4446.4	4818.0	5167.1	5485.3	5695.1	5882.1	6080.7
42.5°	4279.7	4589.7	4996.5	5541.0	6105.5	6486.9	6774.1	7080.7	7408.5	7720.1	8007.4
40°	5336.0	5695.3	6340.7	6957.8	7379.0	7747.2	8140.3	8556.3	8984.9	9393.6	9800.1
37.5°	6468.2	6999.2	7564.4	8103.8	8549.4	8897.7	9436.4	9897.3	10326.7	10935.4	11493.7
35°	7672.9	8250.0	8735.7	9352.6	9850.8	10280.4	10844.1	11424.5	11796.2	12631.2	13354.1
32.5°	8871.5	9544.1	10191.6	10777.4	11395.6	12058.1	12606.7	13402.9	14008.7	14807.3	15592.5
30°	10120.4	11042.4	11850.6	12493.5	13335.7	14192.1	14961.8	15899.4	16792.3	17535.7	18367.8
27.5°	11696.2	12721.4	13707.1	14697.8	15597.5	16666.9	17892.2	18883.9	20027.0	20837.5	21707.8
25°	13368.2	14589.4	15900.5	17177.5	18357.9	19741.2	21130.3	22342.1	23526.9	24460.7	25390.8
22.5°	15186.3	16663.1	18223.4	19831.0	21426.8	22942.3	24433.4	25933.0	27298.6	28582.2	29476.3
20°	17032.7	18672.7	20567.5	22504.4	24341.8	26052.5	27844.3	29740.6	31475.9	32963.4	34064.9
17.5°	18698.4	20755.4	22839.5	24964.6	27036.8	29151.0	31374.1	33604.4	35659.0	37401.1	38863.5
15°	20198.9	22529.6	24942.2	27339.8	29722.8	32157.0	34754.7	37157.7	39460.6	41458.5	43168.3
12.5°	21678.6	24167.9	26754.1	29442.5	32267.5	34903.1	37547.9	40139.1	42552.4	44874.8	46587.7
10°	22988.2	25676.1	28444.9	31325.7	34251.6	37110.9	39898.7	42599.8	44971.0	47163.8	49236.1
7.5°	24055.2	26937.9	29893.1	32923.0	35934.4	38829.7	41669.0	44368.3	46775.0	49022.3	51141.4
5°	24975.6	28033.0	31082.9	34102.3	37132.3	40135.5	43002.1	45663.6	48170.4	50505.7	52629.4
2.5°	25726.7	28914.6	32004.8	34978.7	37996.5	41070.5	44009.5	46580.8	49201.2	51576.4	53666.8
0°	26290.2	29508.3	32499.8	35500.2	38555.5	41663.9	44620.0	47138.9	49806.5	52344.9	54332.8
-2.5°	26598.5	29627.6	32605.2	35615.5	38762.9	41960.4	44912.4	47627.4	50279.7	52659.1	54507.3
-5°	26705.5	29685.4	32652.3	35716.9	38836.9	41984.2	44926.1	47648.2	50195.3	52420.9	54106.5
-7.5°	26633.7	29584.2	32521.4	35555.9	38656.2	41765.8	44660.5	47264.3	49717.2	51825.3	53433.7
-10°	26416.7	29274.0	32212.2	35196.8	38303.7	41373.8	44210.5	46559.6	48901.6	50879.3	52400.2
-12.5°	26058.2	28793.8	31691.6	34610.1	37658.4	40609.4	43252.8	45591.9	47684.5	49687.7	51018.9
-15°	25549.4	28187.0	30957.4	33815.3	36703.2	39558.1	42135.6	44396.4	46335.0	47915.2	49317.2
-17.5°	24911.4	27456.3	30111.0	32849.6	35531.3	38247.4	40636.1	42901.7	44766.5	46173.2	47261.1
-20°	24126.0	26595.8	29134.5	31749.1	34240.8	36550.8	38853.4	40960.2	42803.5	44179.0	45224.5



REPORT NUMBER: P701506 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	23297.0	25627.1	28032.3	30389.8	32658.9	34830.4	36915.9	38849.4	40602.2	41902.7	42903.3
-25°	22353.7	24532.9	26756.8	28885.9	30958.2	32980.0	34870.3	36661.9	38191.9	39457.1	40386.1
-27.5°	21320.7	23349.8	25357.0	27337.1	29259.8	31007.6	32746.9	34364.2	35709.8	36873.3	37695.9
-30°	20191.9	22047.5	23928.6	25784.8	27448.1	29022.5	30567.9	31971.7	33205.1	34226.7	34964.6
-32.5°	19001.3	20696.6	22441.5	24119.9	25578.4	26998.9	28346.3	29577.0	30708.0	31610.7	32276.1
-35°	17770.5	19341.1	20908.0	22359.2	23718.7	24982.2	26143.3	27234.1	28171.0	28993.9	29646.2
-37.5°	16559.8	17974.5	19334.3	20601.4	21857.6	23016.4	24030.5	24987.6	25839.4	26525.7	27097.6
-40°	15372.4	16624.6	17782.4	18910.3	20032.6	21013.6	21934.6	22759.9	23513.7	24169.4	24677.5
-42.5°	14192.1	15270.4	16269.7	17284.7	18255.1	19105.8	19907.7	20622.8	21276.9	21864.5	22357.2
-45°	13007.4	13929.7	14819.1	15711.5	16517.2	17274.9	17971.9	18600.2	19184.6	19679.4	20083.3
-47.5°	11797.5	12615.6	13423.5	14196.8	14865.3	15520.0	16120.0	16684.4	17211.1	17656.0	18012.9
-50°	10642.2	11365.4	12088.8	12728.0	13290.1	13835.3	14343.1	14888.0	15375.4	15780.8	16075.8
-52.5°	9557.6	10211.5	10833.3	11356.9	11831.9	12257.7	12647.8	13154.0	13612.8	14011.0	14272.4
-55°	8569.9	9129.5	9662.6	10095.1	10491.8	10846.8	11200.9	11607.7	11978.1	12309.4	12528.0
-57.5°	7640.1	8114.5	8557.9	8922.1	9253.0	9549.8	9878.6	10218.7	10522.5	10783.9	10959.9
-60°	6758.6	7162.4	7530.2	7829.8	8104.8	8354.7	8667.5	8964.4	9227.0	9440.2	9571.6
-62.5°	5927.0	6289.2	6575.2	6816.1	7035.8	7246.3	7519.7	7776.2	8013.0	8202.1	8312.1
-65°	5165.7	5482.8	5695.4	5886.1	6059.2	6248.8	6481.3	6689.9	6874.9	7015.4	7111.1
-67.5°	4471.6	4722.6	4890.2	5041.7	5190.0	5352.3	5549.6	5731.7	5898.1	6013.9	6085.4
-70°	3825.1	4018.5	4154.4	4283.3	4407.1	4546.2	4707.9	4858.4	4997.3	5087.2	5144.2
-72.5°	3222.0	3369.4	3481.7	3592.5	3692.4	3811.7	3943.5	4067.0	4181.7	4249.2	4292.6
-75°	2659.3	2772.3	2864.2	2949.3	3027.4	3127.7	3234.5	3334.7	3428.0	3479.5	3512.9
-77.5°	2137.4	2224.0	2293.2	2356.6	2414.1	2493.6	2575.8	2653.0	2724.9	2770.9	2807.7
-80°	1695.5	1747.8	1790.4	1830.0	1866.6	1926.1	1986.3	2043.2	2096.4	2126.3	2150.1
-82.5°	1302.4	1334.2	1359.5	1381.7	1400.8	1442.2	1483.6	1522.7	1559.5	1578.9	1595.4
-85°	981.7	998.8	1013.2	1026.0	1037.2	1066.1	1094.6	1122.1	1148.5	1154.1	1158.1
-87.5°	761.2	770.5	779.3	787.8	796.0	817.4	838.6	859.8	880.7	884.4	887.6
-90°	8.9	8.5	8.0	7.6	7.1	6.7	6.2	5.8	5.3	4.9	4.4



REPORT NUMBER: P701506 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	771.3	775.3	772.7	770.0	772.7	775.3	771.3	767.4	763.4	759.4	741.7
87.5°	39.5	38.8	38.9	38.9	38.9	38.8	39.5	40.2	40.7	41.2	37.0
85°	75.1	70.6	67.2	63.7	67.2	70.6	75.1	79.4	83.4	86.9	81.8
82.5°	136.0	137.3	137.0	136.3	137.0	137.3	136.0	134.6	133.1	131.4	126.5
80°	178.5	183.3	184.8	185.9	184.8	183.3	178.5	173.5	168.5	163.5	158.8
77.5°	172.2	175.2	176.1	177.0	176.1	175.2	172.2	169.3	166.3	163.8	163.7
75°	139.6	140.5	140.0	139.8	140.0	140.5	139.6	139.1	138.8	139.6	144.2
72.5°	103.2	102.0	101.2	100.9	101.2	102.0	103.2	104.7	106.6	109.7	116.0
70°	75.6	73.6	72.0	70.8	72.0	73.6	75.6	77.9	80.5	84.2	89.9
67.5°	54.1	52.2	50.7	49.6	50.7	52.2	54.1	56.4	59.1	62.8	67.9
65°	40.7	39.5	38.3	37.2	38.3	39.5	40.7	42.2	44.0	47.3	51.8
62.5°	30.0	28.9	28.4	28.3	28.4	28.9	30.0	31.3	32.9	36.5	41.1
60°	23.2	21.8	21.3	21.2	21.3	21.8	23.2	24.7	26.3	30.5	35.3
57.5°	34.8	29.8	26.8	24.8	26.8	29.8	34.8	38.6	40.6	58.9	65.9
55°	351.1	352.1	359.1	366.4	359.1	352.1	351.1	335.1	305.1	303.5	271.1
52.5°	956.2	953.1	944.4	927.6	944.4	953.1	956.2	931.6	899.6	907.9	846.5
50°	2179.8	2149.0	2082.4	1987.9	2082.4	2149.0	2179.8	2140.4	2074.8	2016.4	1864.0
47.5°	4303.3	4481.4	4604.5	4659.0	4604.5	4481.4	4303.3	4065.4	3888.7	3742.3	3528.1
45°	6287.4	6393.0	6454.6	6503.5	6454.6	6393.0	6287.4	6080.7	5882.1	5695.1	5485.3
42.5°	8251.9	8419.3	8501.7	8487.8	8501.7	8419.3	8251.9	8007.4	7720.1	7408.5	7080.7
40°	10190.7	10541.0	10828.6	11035.1	10828.6	10541.0	10190.7	9800.1	9393.6	8984.9	8556.3
37.5°	12045.9	12567.5	13008.2	13327.4	13008.2	12567.5	12045.9	11493.7	10935.4	10326.7	9897.3
35°	13945.5	14405.5	14707.4	14839.1	14707.4	14405.5	13945.5	13354.1	12631.2	11796.2	11424.5
32.5°	16093.2	16348.8	16403.0	16540.2	16403.0	16348.8	16093.2	15592.5	14807.3	14008.7	13402.9
30°	18874.6	19140.2	19146.7	19319.4	19146.7	19140.2	18874.6	18367.8	17535.7	16792.3	15899.4
27.5°	22393.9	22841.4	22986.6	23139.3	22986.6	22841.4	22393.9	21707.8	20837.5	20027.0	18883.9
25°	26162.5	26579.5	26713.1	26661.9	26713.1	26579.5	26162.5	25390.8	24460.7	23526.9	22342.1
22.5°	30392.4	30933.1	31129.8	31030.6	31129.8	30933.1	30392.4	29476.3	28582.2	27298.6	25933.0
20°	35126.6	35907.1	36319.6	36505.7	36319.6	35907.1	35126.6	34064.9	32963.4	31475.9	29740.6
17.5°	40109.7	41259.8	41787.9	41943.6	41787.9	41259.8	40109.7	38863.5	37401.1	35659.0	33604.4
15°	44643.0	45647.2	46332.0	46684.0	46332.0	45647.2	44643.0	43168.3	41458.5	39460.6	37157.7
12.5°	48148.2	49428.1	50494.9	51066.9	50494.9	49428.1	48148.2	46587.7	44874.8	42552.4	40139.1
10°	51005.4	52297.7	53267.8	53738.0	53267.8	52297.7	51005.4	49236.1	47163.8	44971.0	42599.8
7.5°	52982.3	54183.3	54936.3	55244.4	54936.3	54183.3	52982.3	51141.4	49022.3	46775.0	44368.3
5°	54260.0	55408.3	55965.0	56164.9	55965.0	55408.3	54260.0	52629.4	50505.7	48170.4	45663.6
2.5°	55180.0	56088.6	56534.4	56563.2	56534.4	56088.6	55180.0	53666.8	51576.4	49201.2	46580.8
0°	55600.2	56418.0	56906.6	56897.7	56906.6	56418.0	55600.2	54332.8	52344.9	49806.5	47138.9
-2.5°	55620.5	56332.1	56679.3	56483.5	56679.3	56332.1	55620.5	54507.3	52659.1	50279.7	47627.4
-5°	55223.9	55920.3	56180.5	56120.6	56180.5	55920.3	55223.9	54106.5	52420.9	50195.3	47648.2
-7.5°	54511.7	55129.5	55395.2	55403.7	55395.2	55129.5	54511.7	53433.7	51825.3	49717.2	47264.3
-10°	53425.7	53941.9	54246.1	54159.3	54246.1	53941.9	53425.7	52400.2	50879.3	48901.6	46559.6
-12.5°	51988.9	52498.5	52756.5	52704.3	52756.5	52498.5	51988.9	51018.9	49687.7	47684.5	45591.9
-15°	50270.3	50754.6	50996.3	50973.1	50996.3	50754.6	50270.3	49317.2	47915.2	46335.0	44396.4
-17.5°	48142.5	48628.0	48875.4	48909.1	48875.4	48628.0	48142.5	47261.1	46173.2	44766.5	42901.7
-20°	45912.6	46340.8	46567.5	46570.7	46567.5	46340.8	45912.6	45224.5	44179.0	42803.5	40960.2



REPORT NUMBER: P701506 (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°	43601.1	44081.9	44350.9	44310.2	44350.9	44081.9	43601.1	42903.3	41902.7	40602.2	38849.4
-25°	41024.7	41506.5	41768.1	41757.7	41768.1	41506.5	41024.7	40386.1	39457.1	38191.9	36661.9
-27.5°	38274.3	38737.3	38989.7	39021.1	38989.7	38737.3	38274.3	37695.9	36873.3	35709.8	34364.2
-30°	35503.7	35960.3	36207.5	36227.8	36207.5	35960.3	35503.7	34964.6	34226.7	33205.1	31971.7
-32.5°	32788.9	33201.2	33429.6	33454.0	33429.6	33201.2	32788.9	32276.1	31610.7	30708.0	29577.0
-35°	30140.3	30502.5	30707.5	30774.0	30707.5	30502.5	30140.3	29646.2	28993.9	28171.0	27234.1
-37.5°	27562.5	27890.0	28087.9	28209.0	28087.9	27890.0	27562.5	27097.6	26525.7	25839.4	24987.6
-40°	25072.6	25359.5	25517.4	25520.2	25517.4	25359.5	25072.6	24677.5	24169.4	23513.7	22759.9
-42.5°	22722.1	22963.6	23084.3	23086.2	23084.3	22963.6	22722.1	22357.2	21864.5	21276.9	20622.8
-45°	20408.6	20644.9	20812.1	20917.8	20812.1	20644.9	20408.6	20083.3	19679.4	19184.6	18600.2
-47.5°	18285.1	18478.8	18611.5	18683.9	18611.5	18478.8	18285.1	18012.9	17656.0	17211.1	16684.4
-50°	16291.9	16446.7	16559.9	16627.0	16559.9	16446.7	16291.9	16075.8	15780.8	15375.4	14888.0
-52.5°	14449.8	14562.8	14603.4	14577.1	14603.4	14562.8	14449.8	14272.4	14011.0	13612.8	13154.0
-55°	12691.7	12804.4	12849.4	12833.5	12849.4	12804.4	12691.7	12528.0	12309.4	11978.1	11607.7
-57.5°	11098.4	11198.3	11278.3	11327.2	11278.3	11198.3	11098.4	10959.9	10783.9	10522.5	10218.7
-60°	9675.1	9749.0	9799.2	9819.0	9799.2	9749.0	9675.1	9571.6	9440.2	9227.0	8964.4
-62.5°	8389.4	8435.3	8471.0	8486.1	8471.0	8435.3	8389.4	8312.1	8202.1	8013.0	7776.2
-65°	7187.4	7243.5	7236.7	7197.4	7236.7	7243.5	7187.4	7111.1	7015.4	6874.9	6689.9
-67.5°	6139.4	6175.9	6207.3	6223.8	6207.3	6175.9	6139.4	6085.4	6013.9	5898.1	5731.7
-70°	5187.7	5217.7	5228.8	5225.5	5228.8	5217.7	5187.7	5144.2	5087.2	4997.3	4858.4
-72.5°	4325.3	4347.2	4351.4	4343.9	4351.4	4347.2	4325.3	4292.6	4249.2	4181.7	4067.0
-75°	3536.6	3551.1	3558.4	3558.0	3558.4	3551.1	3536.6	3512.9	3479.5	3428.0	3334.7
-77.5°	2838.4	2862.9	2852.5	2834.0	2852.5	2862.9	2838.4	2807.7	2770.9	2724.9	2653.0
-80°	2169.4	2184.4	2176.2	2163.1	2176.2	2184.4	2169.4	2150.1	2126.3	2096.4	2043.2
-82.5°	1609.6	1621.4	1608.0	1591.4	1608.0	1621.4	1609.6	1595.4	1578.9	1559.5	1522.7
-85°	1161.0	1162.7	1161.6	1159.4	1161.6	1162.7	1161.0	1158.1	1154.1	1148.5	1122.1
-87.5°	890.7	893.4	891.1	888.6	891.1	893.4	890.7	887.6	884.4	880.7	859.8
-90°	4.0	3.5	4.4	5.3	4.4	3.5	4.0	4.4	4.9	5.3	5.8



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	724.0	706.3	688.6	681.1	673.6	666.0	658.5	634.6	610.7	586.8	562.9
87.5°	32.8	28.7	24.8	24.8	24.8	24.8	24.8	23.0	21.2	19.6	18.1
85°	76.4	70.9	65.4	65.7	65.7	65.3	64.4	59.4	54.3	49.1	43.9
82.5°	121.2	115.6	109.9	108.0	106.1	104.4	102.5	97.4	92.1	86.5	80.7
80°	153.9	148.7	143.9	142.4	140.3	137.7	134.2	128.6	122.5	115.9	108.8
77.5°	163.1	162.0	161.2	163.8	165.5	166.1	165.0	160.5	154.2	147.3	138.6
75°	148.7	152.9	158.7	168.1	176.5	183.7	186.2	184.6	181.5	176.7	168.1
72.5°	122.7	129.6	139.7	154.4	169.3	181.3	190.9	198.1	202.3	203.2	196.6
70°	96.2	103.1	114.6	130.1	146.1	162.2	180.8	198.8	214.7	222.8	218.7
67.5°	73.4	79.4	91.3	106.5	122.9	139.8	162.8	186.4	207.3	224.8	231.9
65°	56.3	60.9	72.7	88.0	103.7	120.1	144.6	169.2	194.2	218.2	234.4
62.5°	45.8	50.6	64.2	78.0	91.8	108.8	134.4	160.2	183.9	207.5	232.1
60°	39.5	45.5	61.2	75.6	88.3	108.9	138.0	162.4	181.8	214.2	240.6
57.5°	56.6	54.4	77.6	92.1	97.1	127.9	159.6	179.4	199.4	242.0	264.3
55°	204.8	219.3	232.8	200.2	154.7	236.3	244.2	226.4	263.3	296.8	328.1
52.5°	727.9	735.1	680.6	546.0	521.2	542.5	485.2	463.1	439.3	476.7	457.0
50°	1726.7	1688.9	1532.3	1306.5	1283.2	1138.9	1021.7	894.8	896.2	842.0	723.5
47.5°	3330.5	3109.9	2825.1	2565.2	2408.0	2268.6	1993.9	1633.4	1609.8	1411.5	1232.1
45°	5167.1	4818.0	4446.4	4049.7	3684.6	3442.1	3248.0	2884.1	2533.2	2296.3	1888.0
42.5°	6774.1	6486.9	6105.5	5541.0	4996.5	4589.7	4279.7	3979.3	3616.8	3273.3	2867.2
40°	8140.3	7747.2	7379.0	6957.8	6340.7	5695.3	5336.0	4942.0	4570.8	4183.0	3771.7
37.5°	9436.4	8897.7	8549.4	8103.8	7564.4	6999.2	6468.2	5987.3	5468.4	5033.2	4565.6
35°	10844.1	10280.4	9850.8	9352.6	8735.7	8250.0	7672.9	7072.2	6488.6	5892.4	5358.7
32.5°	12606.7	12058.1	11395.6	10777.4	10191.6	9544.1	8871.5	8163.9	7544.7	6849.6	6171.3
30°	14961.8	14192.1	13335.7	12493.5	11850.6	11042.4	10120.4	9407.4	8664.7	7841.9	7009.0
27.5°	17892.2	16666.9	15597.5	14697.8	13707.1	12721.4	11696.2	10723.2	9841.5	8898.3	7928.7
25°	21130.3	19741.2	18357.9	17177.5	15900.5	14589.4	13368.2	12195.3	11095.5	9990.3	8800.5
22.5°	24433.4	22942.3	21426.8	19831.0	18223.4	16663.1	15186.3	13687.7	12351.0	11044.6	9729.7
20°	27844.3	26052.5	24341.8	22504.4	20567.5	18672.7	17032.7	15262.8	13632.5	12114.2	10651.5
17.5°	31374.1	29151.0	27036.8	24964.6	22839.5	20755.4	18698.4	16745.2	14901.2	13164.7	11543.8
15°	34754.7	32157.0	29722.8	27339.8	24942.2	22529.6	20198.9	18087.3	16150.8	14233.8	12420.9
12.5°	37547.9	34903.1	32267.5	29442.5	26754.1	24167.9	21678.6	19376.5	17265.7	15146.7	13161.1
10°	39898.7	37110.9	34251.6	31325.7	28444.9	25676.1	22988.2	20424.7	18070.5	15887.2	13822.7
7.5°	41669.0	38829.7	35934.4	32923.0	29893.1	26937.9	24055.2	21317.8	18787.0	16513.1	14402.5
5°	43002.1	40135.5	37132.3	34102.3	31082.9	28033.0	24975.6	22088.8	19403.5	17026.1	14896.8
2.5°	44009.5	41070.5	37996.5	34978.7	32004.8	28914.6	25726.7	22715.5	19979.2	17487.6	15221.3
0°	44620.0	41663.9	38555.5	35500.2	32499.8	29508.3	26290.2	23178.3	20466.4	17862.5	15456.9
-2.5°	44912.4	41960.4	38762.9	35615.5	32605.2	29627.6	26598.5	23577.3	20773.7	18218.1	15784.9
-5°	44926.1	41984.2	38836.9	35716.9	32652.3	29685.4	26705.5	23783.3	20980.7	18450.9	16013.1
-7.5°	44660.5	41765.8	38656.2	35555.9	32521.4	29584.2	26633.7	23815.5	21104.3	18538.1	16126.6
-10°	44210.5	41373.8	38303.7	35196.8	32212.2	29274.0	26416.7	23727.3	21075.2	18512.0	16143.3
-12.5°	43252.8	40609.4	37658.4	34610.1	31691.6	28793.8	26058.2	23502.4	20888.0	18375.5	16064.5
-15°	42135.6	39558.1	36703.2	33815.3	30957.4	28187.0	25549.4	23047.2	20506.4	18122.2	15892.3
-17.5°	40636.1	38247.4	35531.3	32849.6	30111.0	27456.3	24911.4	22469.0	20066.0	17758.2	15573.8
-20°	38853.4	36550.8	34240.8	31749.1	29134.5	26595.8	24126.0	21821.2	19540.3	17294.6	15196.2



REPORT NUMBER: P701506 (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°	36915.9	34830.4	32658.9	30389.8	28032.3	25627.1	23297.0	21086.7	18913.1	16703.9	14742.0
-25°	34870.3	32980.0	30958.2	28885.9	26756.8	24532.9	22353.7	20245.5	18141.4	16073.9	14222.2
-27.5°	32746.9	31007.6	29259.8	27337.1	25357.0	23349.8	21320.7	19308.8	17291.4	15432.4	13679.1
-30°	30567.9	29022.5	27448.1	25784.8	23928.6	22047.5	20191.9	18327.0	16477.8	14725.1	13064.3
-32.5°	28346.3	26998.9	25578.4	24119.9	22441.5	20696.6	19001.3	17327.2	15613.4	13991.3	12458.9
-35°	26143.3	24982.2	23718.7	22359.2	20908.0	19341.1	17770.5	16246.6	14739.1	13214.7	11805.5
-37.5°	24030.5	23016.4	21857.6	20601.4	19334.3	17974.5	16559.8	15171.6	13787.1	12439.4	11118.8
-40°	21934.6	21013.6	20032.6	18910.3	17782.4	16624.6	15372.4	14086.8	12845.9	11630.0	10402.3
-42.5°	19907.7	19105.8	18255.1	17284.7	16269.7	15270.4	14192.1	13031.0	11885.2	10780.9	9710.8
-45°	17971.9	17274.9	16517.2	15711.5	14819.1	13929.7	13007.4	11965.8	10922.7	9946.8	8983.5
-47.5°	16120.0	15520.0	14865.3	14196.8	13423.5	12615.6	11797.5	10893.9	10002.4	9107.6	8273.2
-50°	14343.1	13835.3	13290.1	12728.0	12088.8	11365.4	10642.2	9902.3	9098.6	8323.9	7560.9
-52.5°	12647.8	12257.7	11831.9	11356.9	10833.3	10211.5	9557.6	8931.3	8242.5	7560.5	6882.4
-55°	11200.9	10846.8	10491.8	10095.1	9662.6	9129.5	8569.9	8009.3	7443.4	6819.3	6231.6
-57.5°	9878.6	9549.8	9253.0	8922.1	8557.9	8114.5	7640.1	7147.4	6662.6	6124.4	5589.5
-60°	8667.5	8354.7	8104.8	7829.8	7530.2	7162.4	6758.6	6334.4	5890.7	5450.0	4997.5
-62.5°	7519.7	7246.3	7035.8	6816.1	6575.2	6289.2	5927.0	5567.7	5192.6	4801.6	4433.0
-65°	6481.3	6248.8	6059.2	5886.1	5695.4	5482.8	5165.7	4852.6	4541.8	4221.8	3892.5
-67.5°	5549.6	5352.3	5190.0	5041.7	4890.2	4722.6	4471.6	4198.6	3935.1	3673.6	3395.5
-70°	4707.9	4546.2	4407.1	4283.3	4154.4	4018.5	3825.1	3602.0	3374.0	3151.1	2918.8
-72.5°	3943.5	3811.7	3692.4	3592.5	3481.7	3369.4	3222.0	3038.7	2849.7	2655.3	2461.0
-75°	3234.5	3127.7	3027.4	2949.3	2864.2	2772.3	2659.3	2510.2	2359.0	2206.5	2051.1
-77.5°	2575.8	2493.6	2414.1	2356.6	2293.2	2224.0	2137.4	2019.1	1908.0	1794.6	1678.7
-80°	1986.3	1926.1	1866.6	1830.0	1790.4	1747.8	1695.5	1605.0	1512.3	1422.4	1336.6
-82.5°	1483.6	1442.2	1400.8	1381.7	1359.5	1334.2	1302.4	1236.7	1170.0	1102.6	1034.7
-85°	1094.6	1066.1	1037.2	1026.0	1013.2	998.8	981.7	938.7	894.9	850.4	805.2
-87.5°	838.6	817.4	796.0	787.8	779.3	770.5	761.2	732.3	703.3	674.3	645.2
-90°	6.2	6.7	7.1	7.6	8.0	8.5	8.9	9.3	9.8	10.2	10.6



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 CATALOG NUMBER: EPH-LS-08-0640L-40-80-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	537.2	511.6	485.9	460.2	434.1	408.0	381.9	355.8	326.2	296.5	266.9
87.5°	19.4	20.6	21.7	22.6	22.2	21.7	21.2	20.7	21.5	22.1	22.4
85°	41.1	38.8	36.9	35.6	33.6	31.0	30.0	29.0	30.2	30.9	31.1
82.5°	74.6	68.1	62.0	57.1	55.6	53.2	49.9	45.8	43.5	40.5	39.8
80°	100.0	91.5	83.5	77.0	76.2	75.5	72.1	67.6	64.1	59.6	54.3
77.5°	126.8	115.2	103.5	95.1	92.5	90.2	88.2	87.4	84.7	78.8	71.8
75°	154.9	141.2	127.7	118.3	113.0	104.6	100.9	101.4	104.3	98.3	89.2
72.5°	183.8	169.4	153.3	144.2	141.3	133.8	121.6	117.0	124.6	122.0	108.8
70°	209.6	197.9	182.3	178.3	174.7	164.8	153.5	150.2	146.9	146.8	135.2
67.5°	233.2	222.7	209.2	214.8	214.3	205.3	187.9	189.5	188.3	173.2	162.3
65°	240.7	241.4	238.3	253.4	256.7	248.7	232.0	234.6	231.4	216.5	190.4
62.5°	248.3	255.1	266.8	294.3	302.7	296.4	281.5	291.1	279.2	261.2	229.4
60°	256.7	269.5	302.2	336.7	351.8	347.8	344.4	351.2	339.5	307.4	273.3
57.5°	284.8	290.5	348.8	388.6	405.5	403.6	415.0	421.4	402.7	365.7	318.9
55°	331.0	353.1	418.2	454.8	470.2	465.3	496.3	500.0	471.4	428.6	367.8
52.5°	421.8	472.4	528.5	548.3	550.7	551.7	594.0	584.4	553.0	493.6	429.2
50°	625.2	669.7	699.4	687.7	650.8	682.6	703.7	690.6	639.0	564.6	493.5
47.5°	1054.5	1036.1	959.7	876.2	809.4	836.9	849.3	807.8	729.3	647.5	559.1
45°	1715.7	1562.9	1357.3	1178.5	1036.7	1052.4	1020.8	934.5	845.8	737.1	626.0
42.5°	2434.7	2204.3	1942.5	1521.0	1387.0	1303.2	1211.2	1104.8	969.4	829.7	701.8
40°	3278.9	2882.2	2579.3	2124.8	1760.4	1577.3	1456.3	1294.2	1098.9	930.5	784.1
37.5°	4076.9	3591.2	3211.6	2694.4	2172.2	1924.2	1722.0	1496.9	1237.4	1043.1	867.6
35°	4814.3	4279.8	3751.1	3208.4	2662.7	2272.2	2002.8	1723.1	1398.7	1154.7	952.0
32.5°	5535.7	4914.7	4300.5	3693.0	3113.5	2620.7	2308.6	1922.3	1553.4	1265.0	1036.9
30°	6277.6	5552.9	4847.4	4161.9	3533.4	3008.8	2584.4	2109.1	1701.4	1373.7	1123.8
27.5°	7022.3	6182.7	5396.0	4644.9	3950.2	3364.3	2795.2	2283.1	1842.2	1487.4	1214.4
25°	7785.8	6846.6	5962.1	5127.6	4349.8	3637.9	2997.3	2445.2	1986.0	1607.2	1302.6
22.5°	8561.9	7519.8	6513.1	5598.1	4681.7	3913.5	3209.1	2615.6	2124.7	1720.5	1388.1
20°	9292.3	8183.0	7028.7	5975.7	5009.4	4198.7	3434.4	2776.4	2252.5	1827.2	1470.6
17.5°	9996.6	8779.6	7486.7	6345.5	5326.9	4460.9	3654.1	2926.8	2369.5	1927.0	1549.7
15°	10725.6	9302.3	7929.8	6685.4	5616.6	4699.8	3865.7	3066.4	2475.8	2020.0	1616.2
12.5°	11378.1	9810.2	8343.5	6994.1	5877.7	4915.5	4066.9	3194.4	2571.6	2101.8	1668.1
10°	11958.9	10294.5	8722.9	7269.8	6109.7	5108.1	4255.0	3324.8	2684.1	2175.3	1716.3
7.5°	12467.2	10745.8	9063.0	7511.2	6314.3	5268.0	4397.5	3473.3	2795.4	2243.5	1760.2
5°	12885.3	11119.2	9389.8	7789.8	6503.5	5397.9	4506.7	3609.3	2900.5	2305.4	1799.3
2.5°	13158.0	11373.6	9682.4	8048.7	6665.6	5507.7	4589.6	3731.6	2997.2	2360.4	1832.9
0°	13359.3	11560.8	9919.9	8270.1	6797.4	5595.4	4650.2	3839.4	3083.6	2407.4	1860.4
-2.5°	13618.7	11744.1	10068.1	8445.6	6981.6	5751.0	4753.0	3907.6	3144.2	2466.1	1906.1
-5°	13797.3	11864.1	10164.6	8577.5	7130.6	5879.0	4835.3	3960.2	3192.8	2515.7	1944.8
-7.5°	13922.3	11961.0	10229.1	8665.1	7242.4	5975.9	4894.9	3997.0	3229.4	2555.7	1975.9
-10°	13970.2	12013.3	10263.9	8691.1	7277.6	6021.7	4930.1	4017.9	3254.2	2585.8	1999.2
-12.5°	13932.2	11988.4	10237.2	8669.9	7266.7	6020.7	4943.4	4034.4	3268.2	2605.6	2014.3
-15°	13807.6	11883.3	10147.0	8601.1	7216.2	5989.8	4934.6	4038.3	3274.0	2612.4	2021.0
-17.5°	13585.3	11696.0	9992.0	8484.2	7125.3	5929.0	4903.7	4023.3	3265.4	2604.9	2016.3
-20°	13271.4	11449.9	9780.4	8319.2	6993.9	5838.1	4850.7	3989.0	3242.0	2585.9	2001.4



REPORT NUMBER: P701506 (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°	12896.5	11170.2	9577.4	8133.4	6840.3	5717.4	4775.7	3935.0	3203.7	2555.0	1978.6
-25°	12457.6	10842.6	9320.7	7931.0	6679.6	5610.8	4689.5	3861.1	3150.2	2512.2	1947.8
-27.5°	12022.6	10478.5	9005.8	7688.3	6508.4	5481.3	4591.2	3788.5	3085.6	2457.3	1909.0
-30°	11566.9	10082.1	8686.8	7422.6	6303.3	5334.1	4469.7	3698.8	3014.2	2399.6	1862.4
-32.5°	11035.0	9623.4	8339.6	7164.7	6098.7	5156.2	4325.7	3591.1	2928.2	2337.9	1817.8
-35°	10451.1	9161.8	7958.7	6870.9	5870.8	4975.7	4171.5	3465.6	2827.7	2267.1	1769.6
-37.5°	9830.3	8670.7	7601.8	6559.9	5604.6	4769.3	4016.3	3335.2	2712.9	2187.4	1714.7
-40°	9252.2	8165.6	7173.8	6230.4	5339.7	4537.4	3841.7	3198.1	2605.3	2099.0	1653.4
-42.5°	8634.5	7659.6	6736.7	5853.8	5059.0	4323.5	3651.5	3047.9	2498.7	2015.1	1585.7
-45°	8042.8	7132.8	6279.4	5499.0	4760.3	4089.8	3471.1	2889.0	2379.2	1930.2	1516.5
-47.5°	7426.7	6608.5	5836.0	5119.0	4478.6	3847.1	3277.1	2739.3	2247.4	1838.1	1447.2
-50°	6830.9	6088.7	5395.5	4758.6	4163.4	3619.4	3075.1	2574.5	2129.1	1735.1	1371.1
-52.5°	6230.2	5583.6	4968.0	4391.9	3870.9	3378.1	2872.5	2398.8	2000.5	1630.9	1288.4
-55°	5644.9	5097.4	4545.8	4040.6	3570.1	3122.9	2653.8	2240.6	1862.1	1522.2	1201.2
-57.5°	5098.6	4612.4	4142.9	3690.8	3260.9	2846.9	2446.9	2071.3	1724.9	1406.3	1123.5
-60°	4559.4	4156.4	3740.6	3336.0	2942.9	2581.4	2242.9	1897.0	1582.4	1287.9	1038.5
-62.5°	4063.8	3700.1	3341.9	2973.7	2640.1	2331.0	2031.3	1724.8	1432.3	1180.6	948.0
-65°	3580.8	3261.0	2937.4	2641.3	2352.3	2078.2	1822.6	1544.2	1295.6	1068.0	859.6
-67.5°	3109.1	2843.2	2578.9	2314.1	2073.3	1838.7	1604.6	1377.2	1158.4	950.6	783.7
-70°	2682.0	2445.9	2229.1	2018.4	1805.9	1598.2	1409.8	1212.8	1015.8	856.4	704.9
-72.5°	2275.2	2090.8	1908.2	1725.1	1554.9	1385.2	1216.2	1050.8	902.2	759.7	623.5
-75°	1893.2	1750.5	1611.0	1468.0	1317.9	1170.3	1043.6	917.2	786.1	660.2	554.8
-77.5°	1561.0	1443.5	1326.6	1217.8	1103.8	993.3	886.3	780.3	674.1	579.5	489.7
-80°	1251.6	1166.4	1081.2	994.7	902.4	813.4	738.4	662.8	579.1	499.1	422.9
-82.5°	968.3	910.3	854.2	796.8	734.3	672.4	611.2	550.1	482.2	417.0	366.9
-85°	761.3	716.7	671.4	625.6	577.5	530.0	494.9	459.3	417.2	375.4	334.1
-87.5°	616.8	588.1	559.2	530.0	499.7	469.3	438.7	407.9	372.0	336.2	300.7
-90°	11.1	11.5	12.0	12.4	12.4	12.4	12.4	12.4	12.9	13.3	13.8



REPORT NUMBER: P701506 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	237.2	196.5	155.8	115.0	74.3	43.4	12.4
87.5°	22.4	21.8	20.8	19.6	18.1	15.8	12.4
85°	30.7	29.3	27.4	24.9	21.9	18.2	12.4
82.5°	38.9	36.9	34.0	30.3	25.8	20.7	12.4
80°	48.1	44.5	40.6	35.6	29.6	23.1	12.4
77.5°	64.1	55.1	47.2	41.0	33.5	25.6	12.4
75°	80.4	71.4	55.4	46.3	37.4	28.0	12.4
72.5°	97.1	88.0	70.7	51.6	41.4	30.4	12.4
70°	115.6	104.8	86.2	58.3	45.3	32.9	12.4
67.5°	143.9	121.9	101.7	71.4	49.3	35.2	12.4
65°	172.9	144.3	117.4	84.4	53.3	37.6	12.4
62.5°	202.8	172.1	133.2	97.4	57.3	40.0	12.4
60°	233.5	200.3	149.1	110.3	61.4	42.3	12.4
57.5°	275.8	229.0	173.3	123.2	70.8	44.6	12.4
55°	320.3	258.1	198.1	136.1	80.2	46.9	12.4
52.5°	365.7	289.3	222.9	148.8	89.4	49.1	12.4
50°	411.8	329.0	247.7	161.5	98.4	51.3	12.4
47.5°	460.2	368.9	272.6	175.7	107.3	53.5	12.4
45°	518.2	409.0	297.4	194.5	116.0	55.6	12.4
42.5°	576.5	449.1	322.2	213.0	124.4	57.7	12.4
40°	635.2	489.3	350.4	231.2	132.7	59.7	12.4
37.5°	694.0	529.3	381.6	249.0	140.7	61.7	12.4
35°	752.8	574.1	412.2	266.2	148.4	63.6	12.4
32.5°	814.7	620.8	442.3	282.8	155.9	65.5	12.4
30°	883.6	666.8	471.7	298.8	163.1	67.2	12.4
27.5°	951.7	711.7	498.4	314.0	170.0	68.9	12.4
25°	1018.7	755.6	523.7	328.5	176.5	70.6	12.4
22.5°	1084.2	796.0	547.7	342.1	182.7	72.1	12.4
20°	1147.9	829.7	570.2	355.0	188.5	73.6	12.4
17.5°	1197.9	860.8	591.2	367.0	193.9	74.9	12.4
15°	1236.8	889.3	610.7	378.1	199.0	76.2	12.4
12.5°	1271.2	915.1	628.5	388.2	203.5	77.3	12.4
10°	1301.0	938.2	644.6	397.3	207.7	78.4	12.4
7.5°	1326.3	958.5	658.9	405.4	211.4	79.3	12.4
5°	1347.1	975.9	671.4	412.4	214.6	80.1	12.4
2.5°	1363.5	990.4	681.9	418.3	217.3	80.8	12.4
0°	1375.4	1001.9	690.4	423.1	219.5	81.4	12.4
-2.5°	1408.5	1020.6	701.7	429.5	222.9	83.0	12.4
-5°	1436.7	1036.1	710.8	434.7	225.7	84.5	12.4
-7.5°	1459.8	1048.2	717.7	438.6	228.0	85.8	12.4
-10°	1477.1	1056.8	722.3	441.3	229.7	86.9	12.4
-12.5°	1488.3	1061.8	724.5	442.7	230.9	88.0	12.4
-15°	1493.1	1062.9	724.3	442.7	231.5	88.8	12.4
-17.5°	1491.2	1060.2	721.5	441.4	231.6	89.6	12.4
-20°	1482.9	1053.4	716.2	438.7	231.0	90.1	12.4



REPORT NUMBER: P701506 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	1469.9	1042.5	708.2	434.6	229.9	90.5	12.4
-25°	1451.1	1031.8	697.7	429.1	228.2	90.7	12.4
-27.5°	1426.5	1018.6	684.4	422.2	226.0	90.8	12.4
-30°	1396.2	1000.9	669.0	413.9	223.1	90.7	12.4
-32.5°	1360.2	978.8	654.9	404.2	219.7	90.4	12.4
-35°	1326.7	952.2	638.0	393.1	215.8	90.0	12.4
-37.5°	1290.8	923.7	618.3	380.6	211.3	89.4	12.4
-40°	1249.0	896.2	595.8	366.7	206.2	88.6	12.4
-42.5°	1201.6	865.0	574.9	352.4	200.6	87.7	12.4
-45°	1148.4	830.0	556.1	338.2	194.4	86.6	12.4
-47.5°	1089.8	791.4	535.0	322.6	187.8	85.4	12.4
-50°	1036.5	749.2	511.8	311.5	180.6	84.0	12.4
-52.5°	980.5	703.6	486.5	301.3	173.0	82.4	12.4
-55°	920.1	666.0	459.1	289.9	164.8	80.7	12.4
-57.5°	855.5	627.8	429.8	277.4	156.2	78.8	12.4
-60°	789.0	587.1	399.1	263.8	147.3	76.8	12.4
-62.5°	734.7	543.8	377.9	249.3	142.6	74.6	12.4
-65°	677.3	498.2	355.2	233.8	137.7	72.3	12.4
-67.5°	617.1	457.8	331.1	217.4	132.4	69.9	12.4
-70°	554.2	423.0	305.7	200.1	126.9	67.4	12.4
-72.5°	504.2	386.5	279.1	189.4	121.0	64.7	12.4
-75°	454.3	348.4	251.4	179.9	115.0	61.9	12.4
-77.5°	402.7	308.9	234.5	170.0	108.7	59.0	12.4
-80°	349.4	281.9	219.7	159.7	102.1	56.1	12.4
-82.5°	319.9	261.4	204.4	149.0	95.4	53.0	12.4
-85°	293.0	240.2	188.6	138.0	88.5	49.9	12.4
-87.5°	265.4	218.6	172.3	126.6	81.5	46.6	12.4
-90°	14.2	14.2	14.2	14.2	14.2	13.3	12.4

(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

