

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: P701602 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 8/29/2023

Test Information

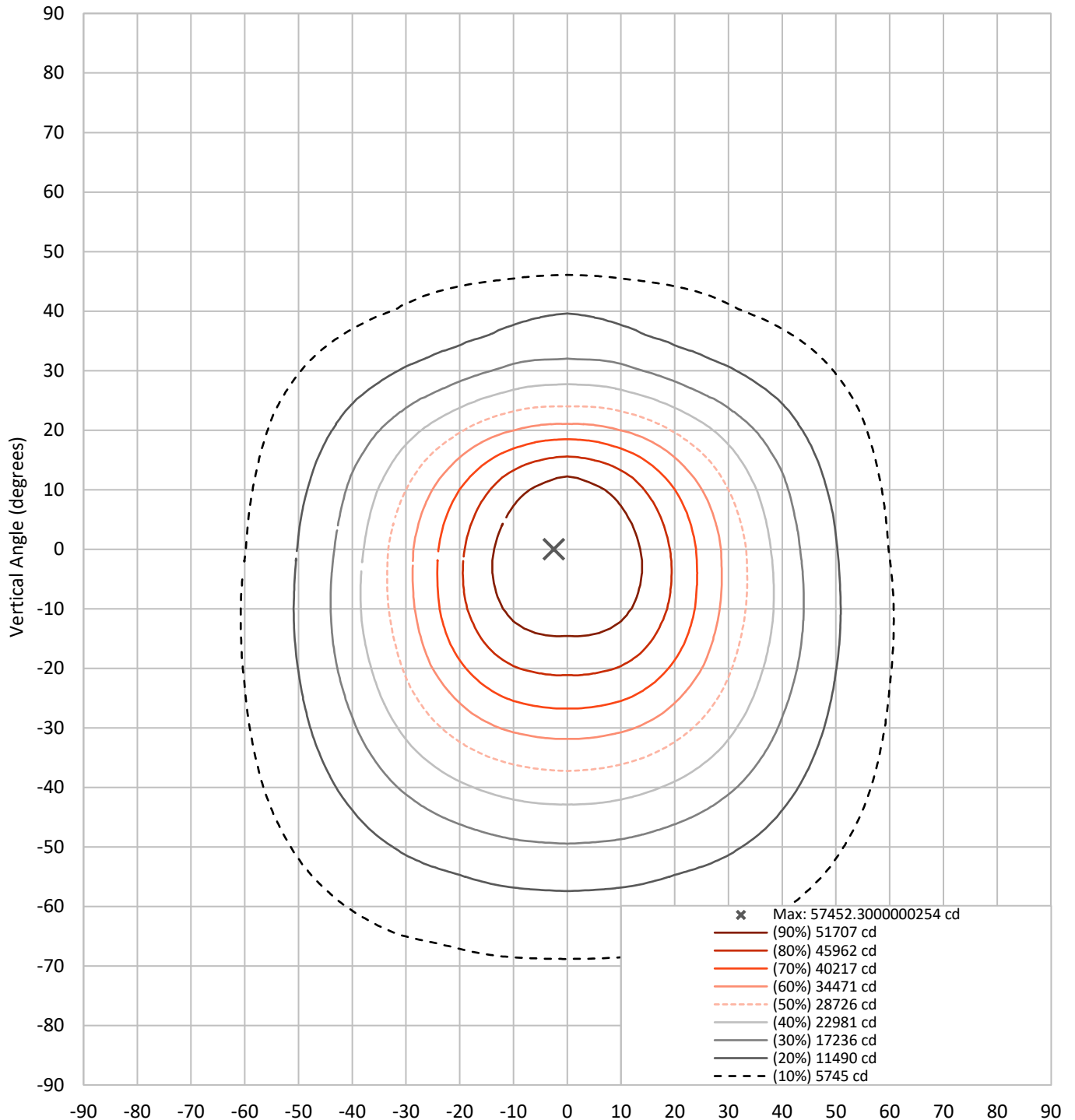
Test Method: LM-79-08
Report Number: P701602 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-6)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0640L-57-80-7F-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 5700K, 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:	76432.7 lumens	Max Intensity:	57452.3 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	116.2 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:	41499.3 lumens	Field Lumens:	71624.4 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





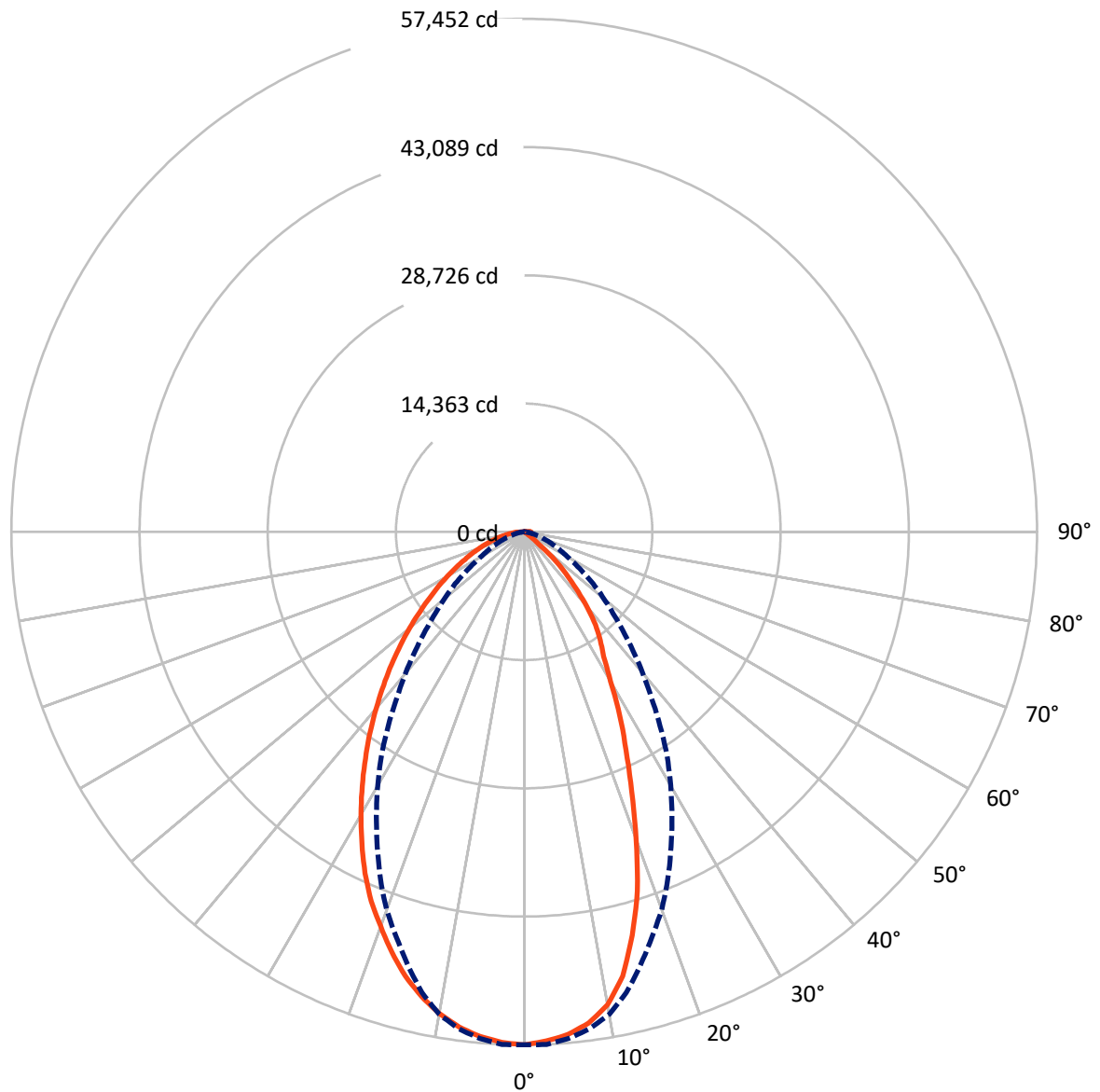
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Lumen Table

90																			
80	1.3	6.3		14.2		17.8		19.4		17.8		14.2		6.3		1.3			
70																			
60	4.5	3.1	4.4	4.9	3.8	2.2	1.5	1.3	1.3	1.5	2.2	3.8	4.9	4.4	3.1	4.5			
50		6.4	8.1	8.2	9.2	12.0	16.4	18.4	18.4	16.4	12.0	9.2	8.2	8.1	6.4				
40	11.8	12.3	23.1	45.7	79.7	123.4	165.2	194.7	194.7	165.2	123.4	79.7	45.7	23.1	12.3	11.8			
30		22.6	57.3	117.5	194.2	279.3	366.1	442.0	442.0	366.1	279.3	194.2	117.5	57.3	22.6				
20	20.9	33.4	91.9	194.4	340.6	518.2	701.3	818.9	818.9	701.3	518.2	340.6	194.4	91.9	33.4	20.9			
10		42.4	121.2	272.5	511.4	824.8	1151.8	1372.0	1372.0	1151.8	824.8	511.4	272.5	121.2	42.4				
0	26.5	49.3	142.2	326.9	630.6	1027.7	1417.6	1672.6	1672.6	1417.6	1027.7	630.6	326.9	142.2	49.3	26.5			
-10		53.6	154.6	352.4	672.8	1078.6	1474.4	1693.9	1693.9	1474.4	1078.6	672.8	352.4	154.6	53.6				
-20	27.9	54.8	155.0	348.5	644.9	1017.7	1362.9	1539.2	1539.2	1362.9	1017.7	644.9	348.5	155.0	54.8	27.9			
-30		52.2	143.0	312.4	563.7	860.3	1125.1	1261.0	1261.0	1125.1	860.3	563.7	312.4	143.0	52.2				
-40	23.3	46.6	123.5	258.7	449.0	659.5	835.5	931.7	931.7	835.5	659.5	449.0	258.7	123.5	46.6	23.3			
-50		38.9	98.6	196.7	327.0	460.6	570.4	632.9	632.9	570.4	460.6	327.0	196.7	98.6	38.9				
-60	15.0	30.0	72.3	136.7	217.2	293.8	357.9	394.1	394.1	357.9	293.8	217.2	136.7	72.3	30.0	15.0			
-70		20.7	47.3	85.6	131.1	171.1	206.0	223.9	223.9	206.0	171.1	131.1	85.6	47.3	20.7				
-80	6.7	55.0		154.2		251.5		293.1		251.5		154.2		55.0		6.7			
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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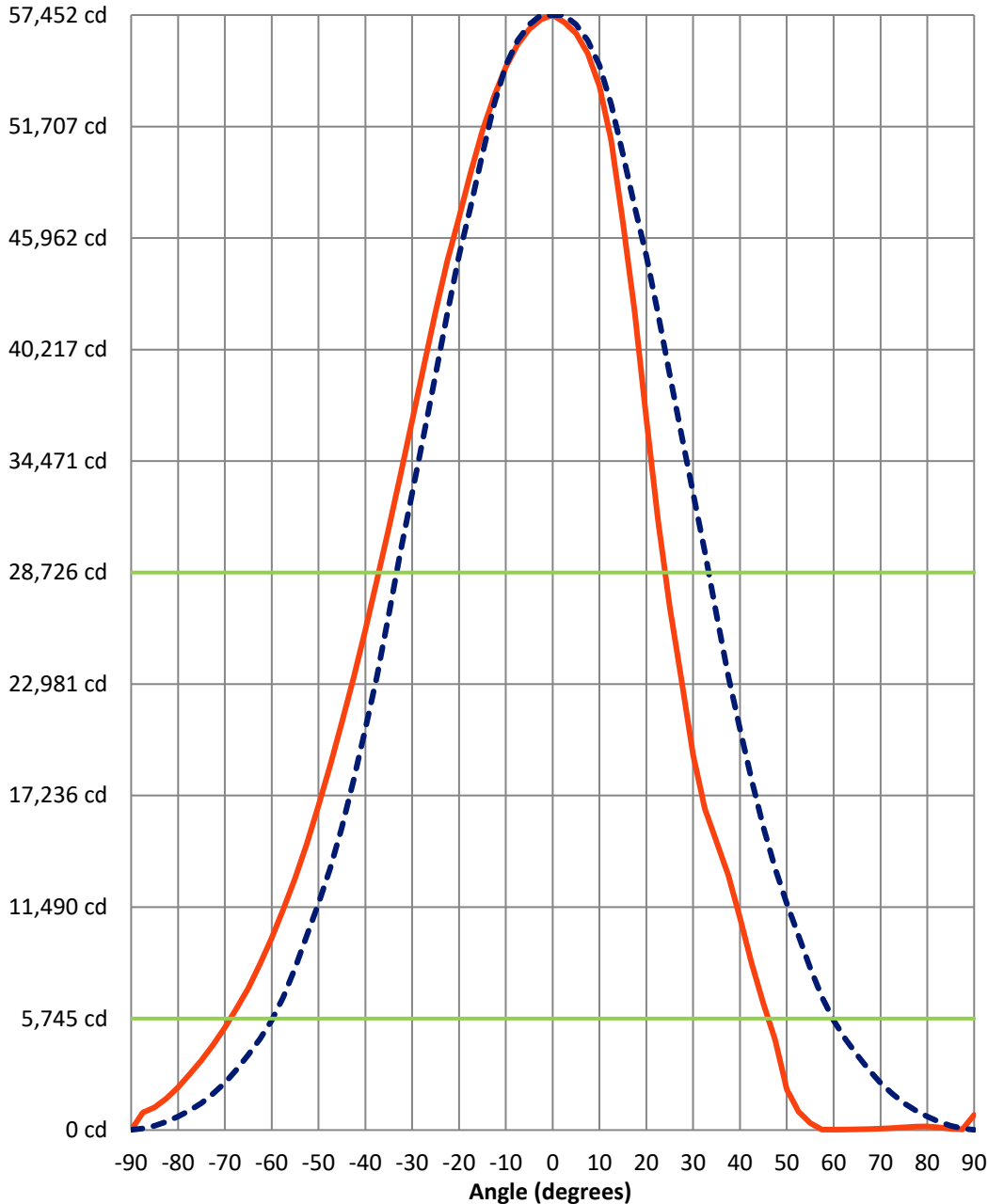
Luminous Intensity Polar Plot



— 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: 41499.3
 Efficiency: 54.3%

Field:
 H Angle: 119.6°
 V Angle: 114.9°
 Lumens: 71624.4
 Efficiency: 93.7%

Spill:
 Lumens: 4808.3
 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°	12.5	43.8	75.1	116.2	157.3	198.4	239.5	269.4	299.4	329.3	359.2
87.5°	12.5	15.9	18.2	19.7	21.0	21.9	22.6	22.6	22.3	21.7	20.8
85°	12.5	18.4	22.1	25.1	27.7	29.6	31.0	31.4	31.2	30.5	29.2
82.5°	12.5	20.9	26.0	30.6	34.3	37.3	39.4	40.2	40.9	43.9	46.2
80°	12.5	23.3	29.9	36.0	41.0	44.9	48.7	54.9	60.2	64.7	68.3
77.5°	12.5	25.8	33.8	41.4	47.7	55.7	64.7	72.5	79.5	85.5	88.3
75°	12.5	28.3	37.8	46.7	55.9	72.2	81.2	90.1	99.2	105.3	102.4
72.5°	12.5	30.7	41.8	52.1	71.4	88.9	98.0	109.9	123.2	125.9	118.1
70°	12.5	33.2	45.8	58.9	87.0	105.8	116.7	136.4	148.2	148.4	151.7
67.5°	12.5	35.6	49.8	72.1	102.7	123.1	145.2	163.9	174.9	190.1	191.4
65°	12.5	38.0	53.8	85.2	118.5	145.7	174.6	192.2	218.6	233.7	236.9
62.5°	12.5	40.4	57.9	98.3	134.4	173.8	204.7	231.6	263.8	281.9	293.9
60°	12.5	42.7	62.0	111.4	150.5	202.3	235.8	276.0	310.4	342.8	354.6
57.5°	12.5	45.0	71.5	124.4	175.0	231.2	278.5	322.0	369.2	406.6	425.5
55°	12.5	47.3	81.0	137.4	200.0	260.6	323.4	371.4	432.8	476.0	504.8
52.5°	12.5	49.6	90.3	150.3	225.0	292.1	369.2	433.4	498.3	558.3	590.0
50°	12.5	51.8	99.4	163.1	250.1	332.2	415.8	498.3	570.0	645.1	697.2
47.5°	12.5	54.0	108.3	177.4	275.2	372.5	464.7	564.5	653.7	736.3	815.5
45°	12.5	56.2	117.1	196.4	300.3	412.9	523.2	632.1	744.2	853.9	943.5
42.5°	12.5	58.3	125.6	215.0	325.4	453.5	582.1	708.5	837.6	978.7	1115.4
40°	12.5	60.3	134.0	233.5	353.8	494.0	641.3	791.7	939.4	1109.4	1306.6
37.5°	12.5	62.3	142.1	251.4	385.3	534.4	700.7	875.9	1053.1	1249.2	1511.3
35°	12.5	64.2	149.9	268.8	416.2	579.6	760.1	961.1	1165.8	1412.1	1739.6
32.5°	12.5	66.1	157.4	285.6	446.6	626.8	822.6	1046.9	1277.1	1568.3	1940.8
30°	12.5	67.9	164.7	301.7	476.2	673.2	892.1	1134.6	1386.9	1717.7	2129.3
27.5°	12.5	69.6	171.6	317.0	503.2	718.6	960.9	1226.1	1501.7	1859.9	2305.0
25°	12.5	71.3	178.2	331.6	528.8	762.8	1028.5	1315.1	1622.7	2005.0	2468.7
22.5°	12.5	72.8	184.4	345.4	552.9	803.7	1094.6	1401.4	1737.0	2145.0	2640.7
20°	12.5	74.3	190.3	358.4	575.7	837.7	1158.9	1484.7	1844.7	2274.1	2803.0
17.5°	12.5	75.7	195.8	370.5	596.9	869.1	1209.4	1564.6	1945.5	2392.2	2954.9
15°	12.5	76.9	200.9	381.7	616.6	897.9	1248.7	1631.7	2039.3	2499.5	3095.8
12.5°	12.5	78.1	205.5	391.9	634.6	923.9	1283.4	1684.1	2122.0	2596.2	3225.0
10°	12.5	79.2	209.7	401.1	650.8	947.2	1313.5	1732.8	2196.2	2709.8	3356.7
7.5°	12.5	80.1	213.4	409.2	665.2	967.7	1339.1	1777.1	2265.0	2822.2	3506.7
5°	12.5	80.9	216.6	416.3	677.8	985.3	1360.1	1816.6	2327.5	2928.3	3643.9
2.5°	12.5	81.6	219.4	422.3	688.4	999.9	1376.6	1850.5	2383.0	3025.9	3767.4
0°	12.5	82.2	221.6	427.1	697.0	1011.5	1388.6	1878.3	2430.5	3113.2	3876.3
-2.5°	12.5	83.8	225.0	433.6	708.4	1030.4	1422.0	1924.4	2489.8	3174.4	3945.2
-5°	12.5	85.3	227.9	438.8	717.6	1046.0	1450.5	1963.4	2539.9	3223.4	3998.3
-7.5°	12.5	86.6	230.2	442.8	724.6	1058.2	1473.7	1994.9	2580.3	3260.3	4035.4
-10°	12.5	87.8	231.9	445.5	729.2	1066.9	1491.2	2018.4	2610.7	3285.4	4056.5
-12.5°	12.5	88.8	233.1	446.9	731.5	1072.0	1502.6	2033.6	2630.7	3299.5	4073.1
-15°	12.5	89.7	233.7	446.9	731.2	1073.1	1507.4	2040.3	2637.5	3305.3	4077.0
-17.5°	12.5	90.4	233.8	445.6	728.4	1070.4	1505.5	2035.6	2629.9	3296.7	4061.9
-20°	12.5	91.0	233.2	442.8	723.0	1063.5	1497.2	2020.6	2610.7	3273.1	4027.2



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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°	12.5	91.4	232.1	438.7	715.0	1052.6	1484.0	1997.5	2579.5	3234.5	3972.7
-25°	12.5	91.6	230.4	433.2	704.3	1041.8	1465.0	1966.4	2536.3	3180.5	3898.1
-27.5°	12.5	91.7	228.2	426.2	691.0	1028.4	1440.2	1927.3	2480.9	3115.2	3824.8
-30°	12.5	91.6	225.3	417.8	675.4	1010.6	1409.6	1880.2	2422.6	3043.1	3734.2
-32.5°	12.5	91.3	221.9	408.0	661.2	988.2	1373.3	1835.3	2360.3	2956.3	3625.5
-35°	12.5	90.9	217.9	396.8	644.1	961.4	1339.4	1786.6	2288.9	2854.9	3498.8
-37.5°	12.5	90.3	213.3	384.2	624.2	932.6	1303.1	1731.2	2208.4	2738.9	3367.2
-40°	12.5	89.5	208.2	370.2	601.4	904.8	1261.0	1669.2	2119.2	2630.3	3228.7
-42.5°	12.5	88.6	202.5	355.7	580.3	873.3	1213.1	1600.9	2034.5	2522.6	3077.1
-45°	12.5	87.5	196.3	341.4	561.3	838.0	1159.5	1531.0	1948.7	2402.1	2916.7
-47.5°	12.5	86.2	189.6	325.7	540.1	798.9	1100.2	1461.1	1855.7	2269.0	2765.6
-50°	12.5	84.8	182.4	314.5	516.7	756.3	1046.4	1384.2	1751.7	2149.6	2599.2
-52.5°	12.5	83.2	174.7	304.2	491.1	710.3	989.8	1300.7	1646.5	2019.7	2421.8
-55°	12.5	81.5	166.5	292.7	463.5	672.3	928.9	1212.7	1536.8	1879.9	2262.1
-57.5°	12.5	79.6	157.8	280.1	433.9	633.8	863.7	1134.2	1419.8	1741.4	2091.2
-60°	12.5	77.5	148.8	266.4	403.0	592.7	796.5	1048.4	1300.3	1597.6	1915.2
-62.5°	12.5	75.4	144.1	251.7	381.6	549.0	741.7	957.0	1191.9	1446.1	1741.3
-65°	12.5	73.1	139.1	236.1	358.7	503.0	683.8	867.8	1078.3	1308.1	1559.0
-67.5°	12.5	70.6	133.7	219.5	334.3	462.3	623.0	791.2	959.7	1169.5	1390.4
-70°	12.5	68.0	128.2	202.2	308.7	427.1	559.5	711.7	864.6	1025.5	1224.5
-72.5°	12.5	65.4	122.3	191.3	281.8	390.2	509.0	629.5	767.0	910.9	1060.9
-75°	12.5	62.6	116.2	181.8	253.8	351.8	458.8	560.2	666.5	793.6	926.0
-77.5°	12.5	59.7	109.8	171.7	236.9	312.0	406.6	494.4	585.0	680.5	787.7
-80°	12.5	56.6	103.2	161.3	221.9	284.6	352.9	427.0	503.9	584.6	669.1
-82.5°	12.5	53.6	96.4	150.5	206.4	263.9	323.0	370.5	421.1	486.8	555.4
-85°	12.5	50.4	89.5	139.4	190.4	242.6	295.8	337.3	379.0	421.2	463.7
-87.5°	12.5	47.1	82.4	127.9	174.1	220.7	267.9	303.6	339.5	375.5	411.8
-90°	12.5	13.4	14.3	14.3	14.3	14.3	14.3	13.9	13.4	13.0	12.5



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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°	385.6	412.0	438.3	464.7	490.6	516.5	542.4	568.3	592.4	616.6	640.7
87.5°	21.4	21.9	22.4	22.8	21.9	20.8	19.6	18.3	19.8	21.4	23.2
85°	30.3	31.3	33.9	35.9	37.3	39.2	41.5	44.3	49.6	54.8	60.0
82.5°	50.3	53.7	56.1	57.6	62.6	68.7	75.3	81.4	87.3	93.0	98.4
80°	72.7	76.2	76.9	77.7	84.3	92.4	100.9	109.8	117.0	123.6	129.8
77.5°	89.1	91.1	93.4	96.1	104.6	116.3	128.1	139.9	148.6	155.6	162.0
75°	101.9	105.6	114.1	119.5	128.9	142.6	156.4	169.7	178.4	183.2	186.4
72.5°	122.8	135.2	142.7	145.6	154.8	171.0	185.5	198.4	205.2	204.2	200.0
70°	155.0	166.5	176.4	180.0	184.0	199.7	211.6	220.8	224.9	216.8	200.7
67.5°	189.7	207.3	216.3	216.8	211.2	224.9	235.5	234.1	227.0	209.4	188.3
65°	234.2	251.0	259.1	255.8	240.6	243.7	243.0	236.7	220.4	196.1	170.8
62.5°	284.2	299.2	305.6	297.2	269.4	257.5	250.6	234.4	209.5	185.6	161.7
60°	347.7	351.0	355.1	339.9	305.0	272.1	259.2	242.9	216.2	183.6	163.9
57.5°	418.9	407.5	409.4	392.3	352.1	293.4	287.6	266.8	244.3	201.3	181.1
55°	501.1	469.7	474.7	459.2	422.3	356.6	334.3	331.3	299.7	265.9	228.6
52.5°	599.7	557.0	556.0	553.5	533.6	477.0	425.9	461.4	481.3	443.5	467.6
50°	710.4	689.1	657.1	694.3	706.2	676.2	631.3	730.5	850.1	904.8	903.4
47.5°	857.4	844.9	817.2	884.6	968.9	1046.1	1064.6	1243.9	1425.0	1625.3	1649.1
45°	1030.6	1062.5	1046.7	1189.8	1370.3	1577.9	1732.2	1906.1	2318.4	2557.5	2911.7
42.5°	1222.8	1315.7	1400.3	1535.6	1961.2	2225.5	2458.1	2894.7	3304.8	3651.5	4017.5
40°	1470.3	1592.4	1777.3	2145.2	2604.0	2909.9	3310.3	3807.9	4223.2	4614.6	4989.3
37.5°	1738.5	1942.6	2192.9	2720.3	3242.4	3625.6	4115.9	4609.4	5081.5	5520.7	6044.7
35°	2022.1	2294.0	2688.2	3239.2	3787.1	4320.8	4860.5	5410.2	5948.9	6550.8	7140.0
32.5°	2330.7	2645.7	3143.4	3728.4	4341.7	4961.8	5588.9	6230.5	6915.3	7617.1	8242.2
30°	2609.2	3037.6	3567.3	4201.8	4893.9	5606.1	6337.8	7076.3	7917.0	8747.8	9497.7
27.5°	2822.0	3396.5	3988.1	4689.4	5447.7	6242.0	7089.7	8004.7	8983.6	9935.9	10826.1
25°	3026.0	3672.7	4391.6	5176.8	6019.2	6912.3	7860.5	8884.9	10086.2	11201.9	12312.3
22.5°	3239.9	3951.0	4726.6	5651.8	6575.6	7592.0	8644.0	9823.0	11150.6	12469.6	13819.0
20°	3467.3	4239.0	5057.5	6033.1	7096.1	8261.5	9381.5	10753.7	12230.5	13763.2	15409.2
17.5°	3689.1	4503.7	5378.0	6406.3	7558.5	8863.8	10092.5	11654.6	13291.0	15044.1	16905.8
15°	3902.7	4744.9	5670.5	6749.6	8005.8	9391.5	10828.5	12540.1	14370.3	16305.7	18260.7
12.5°	4105.8	4962.7	5934.1	7061.1	8423.5	9904.3	11487.3	13287.3	15291.9	17431.3	19562.3
10°	4295.7	5157.1	6168.3	7339.5	8806.6	10393.2	12073.6	13955.3	16039.6	18243.8	20620.6
7.5°	4439.7	5318.5	6374.8	7583.2	9149.9	10848.8	12586.7	14540.6	16671.5	18967.2	21522.3
5°	4549.9	5449.7	6565.8	7864.5	9479.8	11225.9	13008.8	15039.7	17189.4	19589.6	22300.6
2.5°	4633.7	5560.5	6729.5	8125.9	9775.3	11482.7	13284.1	15367.2	17655.3	20170.8	22933.3
0°	4694.8	5649.1	6862.5	8349.4	10015.0	11671.7	13487.4	15605.1	18033.8	20662.7	23400.6
-2.5°	4798.6	5806.2	7048.5	8526.5	10164.6	11856.8	13749.3	15936.3	18392.8	20972.9	23803.4
-5°	4881.7	5935.4	7198.9	8659.8	10262.1	11977.9	13929.7	16166.7	18627.9	21181.9	24011.3
-7.5°	4941.8	6033.2	7311.8	8748.2	10327.2	12075.8	14055.8	16281.3	18715.9	21306.7	24043.9
-10°	4977.4	6079.5	7347.4	8774.4	10362.3	12128.5	14104.2	16298.2	18689.6	21277.3	23954.8
-12.5°	4990.8	6078.4	7336.4	8753.0	10335.3	12103.4	14065.9	16218.6	18551.8	21088.3	23727.7
-15°	4982.0	6047.3	7285.4	8683.6	10244.3	11997.3	13940.0	16044.6	18296.0	20703.1	23268.2
-17.5°	4950.7	5985.8	7193.7	8565.6	10087.8	11808.1	13715.7	15723.1	17928.5	20258.4	22684.4
-20°	4897.2	5894.1	7060.9	8399.1	9874.2	11559.7	13398.7	15341.9	17460.4	19727.7	22030.4



REPORT NUMBER: P701602 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-80-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	4821.5	5772.3	6905.9	8211.4	9669.2	11277.4	13020.2	14883.4	16864.1	19094.4	21288.9
-25°	4734.5	5664.7	6743.6	8007.0	9410.1	10946.6	12577.1	14358.6	16228.0	18315.4	20439.6
-27.5°	4635.3	5533.9	6570.8	7762.0	9092.2	10579.0	12137.9	13810.2	15580.4	17457.2	19494.0
-30°	4512.6	5385.3	6363.8	7493.8	8770.1	10178.8	11677.8	13189.5	14866.3	16635.8	18502.8
-32.5°	4367.1	5205.7	6157.2	7233.4	8419.6	9715.7	11140.9	12578.4	14125.4	15763.2	17493.4
-35°	4211.4	5023.5	5927.1	6936.8	8035.0	9249.7	10551.3	11918.7	13341.5	14880.4	16402.5
-37.5°	4054.8	4815.0	5658.3	6622.8	7674.8	8753.9	9924.5	11225.4	12558.7	13919.3	15317.1
-40°	3878.5	4581.0	5390.9	6290.2	7242.7	8243.9	9340.9	10502.1	11741.6	12969.1	14222.0
-42.5°	3686.6	4365.0	5107.6	5909.9	6801.4	7733.1	8717.3	9803.9	10884.4	11999.2	13156.0
-45°	3504.4	4129.1	4806.0	5551.8	6339.6	7201.2	8119.9	9069.6	10042.2	11027.5	12080.6
-47.5°	3308.5	3884.1	4521.7	5168.1	5892.0	6671.8	7497.9	8352.6	9194.9	10098.4	10998.5
-50°	3104.6	3654.1	4203.5	4804.3	5447.3	6147.1	6896.4	7633.3	8403.7	9185.8	9997.2
-52.5°	2900.1	3410.5	3908.1	4434.0	5015.6	5637.1	6289.9	6948.4	7632.9	8321.5	9016.9
-55°	2679.3	3152.8	3604.3	4079.4	4589.4	5146.3	5699.0	6291.3	6884.7	7514.8	8086.2
-57.5°	2470.4	2874.2	3292.1	3726.2	4182.7	4656.7	5147.5	5643.1	6183.1	6726.4	7216.0
-60°	2264.5	2606.1	2971.1	3368.0	3776.5	4196.3	4603.2	5045.5	5502.3	5947.3	6395.2
-62.5°	2050.9	2353.4	2665.4	3002.1	3373.9	3735.6	4102.8	4475.6	4847.7	5242.5	5621.2
-65°	1840.1	2098.2	2374.8	2666.6	2965.5	3292.3	3615.1	3929.9	4262.4	4585.4	4899.2
-67.5°	1620.0	1856.3	2093.2	2336.3	2603.6	2870.4	3138.9	3428.1	3708.9	3972.9	4238.9
-70°	1423.3	1613.5	1823.3	2037.8	2250.4	2469.3	2707.7	2946.8	3181.4	3406.4	3636.6
-72.5°	1227.8	1398.5	1569.9	1741.7	1926.6	2110.8	2297.0	2484.6	2680.7	2877.0	3067.8
-75°	1053.6	1181.6	1330.5	1482.0	1626.4	1767.3	1911.4	2070.8	2227.6	2381.7	2534.2
-77.5°	894.8	1002.8	1114.4	1229.4	1339.3	1457.4	1576.0	1694.8	1811.8	1926.3	2038.5
-80°	745.4	821.2	911.1	1004.3	1091.5	1177.5	1263.6	1349.4	1436.1	1526.8	1620.3
-82.5°	617.0	678.8	741.3	804.4	862.4	919.0	977.6	1044.6	1113.1	1181.2	1248.5
-85°	499.6	535.1	583.0	631.6	677.9	723.6	768.6	813.0	858.5	903.5	947.7
-87.5°	442.9	473.8	504.5	535.1	564.6	593.8	622.7	651.5	680.8	710.1	739.3
-90°	12.5	12.5	12.5	12.5	12.1	11.6	11.2	10.7	10.3	9.8	9.4



REPORT NUMBER: P701602 (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°	664.8	672.4	680.0	687.6	695.2	713.1	731.0	748.8	766.7	770.7	774.8
87.5°	25.0	25.1	25.1	25.0	25.0	29.0	33.1	37.3	41.6	41.1	40.5
85°	65.0	66.0	66.4	66.4	66.1	71.6	77.2	82.5	87.7	84.2	80.1
82.5°	103.5	105.4	107.2	109.1	111.0	116.7	122.4	127.7	132.7	134.3	135.9
80°	135.5	139.0	141.7	143.7	145.3	150.1	155.4	160.3	165.1	170.1	175.2
77.5°	166.5	167.6	167.0	165.4	162.8	163.5	164.6	165.2	165.3	167.9	170.9
75°	188.0	185.5	178.1	169.7	160.2	154.3	150.1	145.5	140.9	140.1	140.4
72.5°	192.7	182.9	170.8	155.8	141.0	130.8	123.8	117.1	110.8	107.6	105.8
70°	182.5	163.8	147.5	131.4	115.7	104.1	97.1	90.8	85.0	81.3	78.6
67.5°	164.4	141.2	124.1	107.5	92.2	80.2	74.1	68.5	63.4	59.7	57.0
65°	146.0	121.3	104.7	88.8	73.3	61.5	56.8	52.2	47.8	44.4	42.6
62.5°	135.7	109.8	92.7	78.8	64.8	51.0	46.2	41.5	36.9	33.2	31.7
60°	139.3	109.9	89.2	76.3	61.8	45.9	39.9	35.6	30.8	26.5	25.0
57.5°	161.1	129.1	98.1	93.0	78.3	54.9	57.1	66.5	59.4	41.0	38.9
55°	246.5	238.5	156.1	202.1	235.0	221.4	206.8	273.7	306.4	308.1	338.3
52.5°	489.9	547.7	526.1	551.2	687.1	742.1	734.9	854.6	916.7	908.2	940.6
50°	1031.5	1149.8	1295.5	1319.0	1547.0	1705.1	1743.2	1881.9	2035.8	2094.7	2161.0
47.5°	2013.0	2290.4	2431.1	2589.8	2852.2	3139.7	3362.4	3561.9	3778.1	3926.0	4104.4
45°	3279.1	3475.0	3719.9	4088.5	4489.0	4864.2	5216.7	5537.8	5749.7	5938.6	6139.1
42.5°	4320.7	4633.7	5044.4	5594.2	6164.1	6549.2	6839.1	7148.6	7479.6	7794.2	8084.2
40°	5387.2	5749.9	6401.6	7024.6	7449.8	7821.5	8218.4	8638.4	9071.0	9483.7	9894.2
37.5°	6530.2	7066.3	7636.9	8181.4	8631.4	8983.0	9526.9	9992.2	10425.7	11040.3	11603.9
35°	7746.5	8329.1	8819.4	9442.3	9945.3	10379.0	10948.1	11534.1	11909.2	12752.3	13482.1
32.5°	8956.6	9635.6	10289.3	10880.8	11505.0	12173.7	12727.6	13531.4	14143.0	14949.3	15742.0
30°	10217.4	11148.3	11964.3	12613.3	13463.6	14328.2	15105.3	16051.9	16953.4	17703.8	18544.0
27.5°	11808.4	12843.4	13838.6	14838.7	15747.1	16826.7	18063.8	19065.0	20219.1	21037.4	21916.0
25°	13496.4	14729.4	16052.9	17342.2	18533.9	19930.5	21333.0	22556.3	23752.4	24695.3	25634.3
22.5°	15332.0	16822.9	18398.2	20021.2	21632.2	23162.3	24667.8	26181.7	27560.4	28856.3	29759.0
20°	17196.0	18851.7	20764.7	22720.3	24575.3	26302.3	28111.4	30025.8	31777.7	33279.5	34391.7
17.5°	18877.7	20954.4	23058.5	25204.0	27296.0	29430.5	31675.0	33926.7	36001.0	37759.8	39236.3
15°	20392.6	22745.6	25181.4	27602.1	30007.8	32465.3	35088.0	37514.1	39839.0	41856.1	43582.3
12.5°	21886.5	24399.6	27010.7	29724.8	32576.9	35237.8	37908.0	40524.1	42960.5	45305.1	47034.5
10°	23208.6	25922.3	28717.6	31626.0	34580.0	37466.7	40281.3	43008.3	45402.2	47616.2	49708.3
7.5°	24285.9	27196.2	30179.7	33238.7	36278.9	39202.1	42068.6	44793.8	47223.6	49492.4	51631.8
5°	25215.0	28301.8	31380.9	34429.3	37488.4	40520.4	43414.5	46101.5	48632.4	50990.1	53134.2
2.5°	25973.4	29191.9	32311.7	35314.2	38360.9	41464.4	44431.6	47027.6	49673.1	52071.0	54181.5
0°	26542.3	29791.3	32811.5	35840.7	38925.3	42063.5	45047.9	47591.0	50284.2	52846.9	54853.9
-2.5°	26853.5	29911.7	32917.9	35957.1	39134.6	42362.7	45343.1	48084.2	50761.9	53164.1	55030.0
-5°	26961.6	29970.1	32965.4	36059.4	39209.4	42386.8	45357.0	48105.2	50676.7	52923.7	54625.5
-7.5°	26889.1	29867.9	32833.3	35896.9	39026.9	42166.4	45088.8	47717.6	50194.0	52322.3	53946.2
-10°	26670.0	29554.7	32521.2	35534.4	38671.0	41770.6	44634.5	47006.2	49370.6	51367.3	52902.7
-12.5°	26308.0	29070.0	31995.6	34942.0	38019.5	40998.9	43667.6	46029.1	48141.8	50164.2	51508.2
-15°	25794.4	28457.3	31254.3	34139.6	37055.2	39937.5	42539.7	44822.1	46779.4	48374.8	49790.1
-17.5°	25150.3	27719.7	30399.8	33164.6	35872.1	38614.2	41025.8	43313.1	45195.8	46616.1	47714.4
-20°	24357.4	26850.9	29414.0	32053.6	34569.2	36901.4	39226.1	41353.0	43213.9	44602.7	45658.2



REPORT NUMBER: P701602 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-80-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	23520.4	25872.9	28301.2	30681.3	32972.1	35164.5	37270.0	39222.0	40991.5	42304.6	43314.8
-25°	22568.1	24768.2	27013.5	29162.9	31255.1	33296.3	35204.8	37013.6	38558.2	39835.5	40773.4
-27.5°	21525.2	23573.7	25600.2	27599.4	29540.5	31305.0	33061.0	34693.8	36052.2	37226.9	38057.5
-30°	20385.5	22258.9	24158.1	26032.2	27711.4	29300.9	30861.0	32278.3	33523.5	34554.9	35299.9
-32.5°	19183.6	20895.1	22656.7	24351.2	25823.8	27257.8	28618.2	29860.7	31002.5	31913.9	32585.7
-35°	17940.9	19526.5	21108.5	22573.7	23946.2	25221.8	26394.0	27495.3	28441.2	29272.0	29930.5
-37.5°	16718.6	18146.9	19519.8	20799.0	22067.2	23237.1	24261.0	25227.3	26087.2	26780.1	27357.5
-40°	15519.9	16784.1	17952.9	19091.6	20224.8	21215.1	22145.0	22978.2	23739.3	24401.2	24914.2
-42.5°	14328.2	15416.9	16425.8	17450.5	18430.2	19289.1	20098.6	20820.6	21481.0	22074.2	22571.6
-45°	13132.2	14063.3	14961.2	15862.1	16675.6	17440.6	18144.3	18778.6	19368.6	19868.2	20275.9
-47.5°	11910.7	12736.6	13552.3	14333.0	15007.9	15668.8	16274.7	16844.5	17376.2	17825.4	18185.6
-50°	10744.3	11474.4	12204.7	12850.0	13417.5	13967.9	14480.6	15030.8	15522.9	15932.2	16229.9
-52.5°	9649.2	10309.4	10937.2	11465.7	11945.4	12375.2	12769.0	13280.1	13743.3	14145.3	14409.3
-55°	8652.1	9217.0	9755.3	10191.9	10592.4	10950.9	11308.3	11719.0	12093.0	12427.4	12648.1
-57.5°	7713.4	8192.3	8640.0	9007.7	9341.7	9641.4	9973.3	10316.7	10623.4	10887.3	11065.0
-60°	6823.4	7231.1	7602.5	7904.9	8182.5	8434.8	8750.7	9050.4	9315.4	9530.7	9663.3
-62.5°	5983.9	6349.5	6638.3	6881.5	7103.3	7315.8	7591.8	7850.7	8089.8	8280.8	8391.8
-65°	5215.3	5535.4	5750.0	5942.5	6117.3	6308.7	6543.5	6754.1	6940.8	7082.6	7179.3
-67.5°	4514.5	4767.9	4937.1	5090.1	5239.8	5403.6	5602.8	5786.7	5954.7	6071.5	6143.7
-70°	3861.8	4057.1	4194.3	4324.4	4449.4	4589.9	4753.1	4905.0	5045.3	5136.0	5193.5
-72.5°	3252.9	3401.7	3515.1	3627.0	3727.9	3848.3	3981.4	4106.0	4221.8	4290.0	4333.8
-75°	2684.8	2798.9	2891.7	2977.6	3056.4	3157.8	3265.5	3366.7	3460.9	3512.9	3546.6
-77.5°	2158.0	2245.3	2315.2	2379.2	2437.2	2517.6	2600.5	2678.5	2751.1	2797.5	2834.7
-80°	1711.8	1764.6	1807.5	1847.5	1884.5	1944.5	2005.4	2062.8	2116.5	2146.7	2170.7
-82.5°	1314.9	1346.9	1372.5	1394.9	1414.2	1456.1	1497.8	1537.3	1574.5	1594.1	1610.7
-85°	991.1	1008.4	1022.9	1035.8	1047.2	1076.3	1105.1	1132.8	1159.5	1165.2	1169.2
-87.5°	768.5	777.8	786.7	795.3	803.6	825.2	846.7	868.0	889.2	892.8	896.2
-90°	8.9	8.5	8.0	7.6	7.1	6.7	6.3	5.8	5.4	5.0	4.5



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

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	778.8	782.8	780.1	777.4	780.1	782.8	778.8	774.8	770.7	766.7	748.8
87.5°	39.9	39.2	39.3	39.3	39.3	39.2	39.9	40.5	41.1	41.6	37.3
85°	75.8	71.3	67.9	64.3	67.9	71.3	75.8	80.1	84.2	87.7	82.5
82.5°	137.3	138.6	138.3	137.6	138.3	138.6	137.3	135.9	134.3	132.7	127.7
80°	180.2	185.1	186.6	187.6	186.6	185.1	180.2	175.2	170.1	165.1	160.3
77.5°	173.9	176.9	177.8	178.7	177.8	176.9	173.9	170.9	167.9	165.3	165.2
75°	141.0	141.9	141.4	141.2	141.4	141.9	141.0	140.4	140.1	140.9	145.5
72.5°	104.2	103.0	102.2	101.9	102.2	103.0	104.2	105.8	107.6	110.8	117.1
70°	76.3	74.3	72.7	71.5	72.7	74.3	76.3	78.6	81.3	85.0	90.8
67.5°	54.7	52.7	51.2	50.0	51.2	52.7	54.7	57.0	59.7	63.4	68.5
65°	41.1	39.9	38.6	37.5	38.6	39.9	41.1	42.6	44.4	47.8	52.2
62.5°	30.3	29.2	28.7	28.6	28.7	29.2	30.3	31.7	33.2	36.9	41.5
60°	23.5	22.0	21.5	21.4	21.5	22.0	23.5	25.0	26.5	30.8	35.6
57.5°	35.1	30.1	27.1	25.0	27.1	30.1	35.1	38.9	41.0	59.4	66.5
55°	354.4	355.5	362.6	369.9	362.6	355.5	354.4	338.3	308.1	306.4	273.7
52.5°	965.4	962.2	953.5	936.5	953.5	962.2	965.4	940.6	908.2	916.7	854.6
50°	2200.7	2169.6	2102.3	2006.9	2102.3	2169.6	2200.7	2161.0	2094.7	2035.8	1881.9
47.5°	4344.6	4524.3	4648.7	4703.7	4648.7	4524.3	4344.6	4104.4	3926.0	3778.1	3561.9
45°	6347.8	6454.4	6516.6	6565.9	6516.6	6454.4	6347.8	6139.1	5938.6	5749.7	5537.8
42.5°	8331.1	8500.0	8583.3	8569.2	8583.3	8500.0	8331.1	8084.2	7794.2	7479.6	7148.6
40°	10288.5	10642.2	10932.5	11140.9	10932.5	10642.2	10288.5	9894.2	9483.7	9071.0	8638.4
37.5°	12161.4	12688.1	13132.9	13455.2	13132.9	12688.1	12161.4	11603.9	11040.3	10425.7	9992.2
35°	14079.2	14543.7	14848.5	14981.4	14848.5	14543.7	14079.2	13482.1	12752.3	11909.2	11534.1
32.5°	16247.5	16505.6	16560.3	16698.9	16560.3	16505.6	16247.5	15742.0	14949.3	14143.0	13531.4
30°	19055.6	19323.8	19330.3	19504.6	19330.3	19323.8	19055.6	18544.0	17703.8	16953.4	16051.9
27.5°	22608.7	23060.4	23207.1	23361.2	23207.1	23060.4	22608.7	21916.0	21037.4	20219.1	19065.0
25°	26413.4	26834.5	26969.3	26917.6	26969.3	26834.5	26413.4	25634.3	24695.3	23752.4	22556.3
22.5°	30683.8	31229.7	31428.4	31328.2	31428.4	31229.7	30683.8	29759.0	28856.3	27560.4	26181.7
20°	35463.5	36251.4	36667.9	36855.8	36667.9	36251.4	35463.5	34391.7	33279.5	31777.7	30025.8
17.5°	40494.4	41655.5	42188.7	42345.8	42188.7	41655.5	40494.4	39236.3	37759.8	36001.0	33926.7
15°	45071.1	46084.9	46776.4	47131.7	46776.4	46084.9	45071.1	43582.3	41856.1	39839.0	37514.1
12.5°	48609.9	49902.1	50979.1	51556.6	50979.1	49902.1	48609.9	47034.5	45305.1	42960.5	40524.1
10°	51494.6	52799.2	53778.6	54253.4	53778.6	52799.2	51494.6	49708.3	47616.2	45402.2	43008.3
7.5°	53490.4	54702.9	55463.2	55774.2	55463.2	54702.9	53490.4	51631.8	49492.4	47223.6	44793.8
5°	54780.4	55939.7	56501.8	56703.5	56501.8	55939.7	54780.4	53134.2	50990.1	48632.4	46101.5
2.5°	55709.3	56626.6	57076.6	57105.6	57076.6	56626.6	55709.3	54181.5	52071.0	49673.1	47027.6
0°	56133.5	56959.1	57452.3	57443.4	57452.3	56959.1	56133.5	54853.9	52846.9	50284.2	47591.0
-2.5°	56154.0	56872.3	57222.9	57025.2	57222.9	56872.3	56154.0	55030.0	53164.1	50761.9	48084.2
-5°	55753.5	56456.5	56719.3	56658.9	56719.3	56456.5	55753.5	54625.5	52923.7	50676.7	48105.2
-7.5°	55034.5	55658.3	55926.4	55935.1	55926.4	55658.3	55034.5	53946.2	52322.3	50194.0	47717.6
-10°	53938.0	54459.2	54766.3	54678.7	54766.3	54459.2	53938.0	52902.7	51367.3	49370.6	47006.2
-12.5°	52487.4	53001.9	53262.4	53209.7	53262.4	53001.9	52487.4	51508.2	50164.2	48141.8	46029.1
-15°	50752.4	51241.3	51485.4	51461.9	51485.4	51241.3	50752.4	49790.1	48374.8	46779.4	44822.1
-17.5°	48604.2	49094.3	49344.1	49378.1	49344.1	49094.3	48604.2	47714.4	46616.1	45195.8	43313.1
-20°	46352.9	46785.2	47014.0	47017.4	47014.0	46785.2	46352.9	45658.2	44602.7	43213.9	41353.0



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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°	44019.3	44504.7	44776.2	44735.2	44776.2	44504.7	44019.3	43314.8	42304.6	40991.5	39222.0
-25°	41418.2	41904.6	42168.7	42158.2	42168.7	41904.6	41418.2	40773.4	39835.5	38558.2	37013.6
-27.5°	38641.4	39108.8	39363.7	39395.3	39363.7	39108.8	38641.4	38057.5	37226.9	36052.2	34693.8
-30°	35844.3	36305.2	36554.8	36575.2	36554.8	36305.2	35844.3	35299.9	34554.9	33523.5	32278.3
-32.5°	33103.4	33519.6	33750.1	33774.8	33750.1	33519.6	33103.4	32585.7	31913.9	31002.5	29860.7
-35°	30429.4	30795.1	31002.0	31069.1	31002.0	30795.1	30429.4	29930.5	29272.0	28441.2	27495.3
-37.5°	27826.8	28157.4	28357.3	28479.6	28357.3	28157.4	27826.8	27357.5	26780.1	26087.2	25227.3
-40°	25313.0	25602.7	25762.0	25764.9	25762.0	25602.7	25313.0	24914.2	24401.2	23739.3	22978.2
-42.5°	22940.0	23183.9	23305.7	23307.6	23305.7	23183.9	22940.0	22571.6	22074.2	21481.0	20820.6
-45°	20604.3	20842.8	21011.7	21118.4	21011.7	20842.8	20604.3	20275.9	19868.2	19368.6	18778.6
-47.5°	18460.5	18656.0	18790.1	18863.1	18790.1	18656.0	18460.5	18185.6	17825.4	17376.2	16844.5
-50°	16448.1	16604.4	16718.7	16786.4	16718.7	16604.4	16448.1	16229.9	15932.2	15522.9	15030.8
-52.5°	14588.4	14702.5	14743.5	14716.9	14743.5	14702.5	14588.4	14409.3	14145.3	13743.3	13280.1
-55°	12813.4	12927.2	12972.6	12956.6	12972.6	12927.2	12813.4	12648.1	12427.4	12093.0	11719.0
-57.5°	11204.8	11305.6	11386.4	11435.8	11386.4	11305.6	11204.8	11065.0	10887.3	10623.4	10316.7
-60°	9767.8	9842.4	9893.2	9913.2	9893.2	9842.4	9767.8	9663.3	9530.7	9315.4	9050.4
-62.5°	8469.8	8516.3	8552.3	8567.5	8552.3	8516.3	8469.8	8391.8	8280.8	8089.8	7850.7
-65°	7256.3	7313.0	7306.1	7266.4	7306.1	7313.0	7256.3	7179.3	7082.6	6940.8	6754.1
-67.5°	6198.3	6235.1	6266.8	6283.5	6266.8	6235.1	6198.3	6143.7	6071.5	5954.7	5786.7
-70°	5237.5	5267.7	5279.0	5275.6	5279.0	5267.7	5237.5	5193.5	5136.0	5045.3	4905.0
-72.5°	4366.8	4388.9	4393.2	4385.6	4393.2	4388.9	4366.8	4333.8	4290.0	4221.8	4106.0
-75°	3570.5	3585.1	3592.5	3592.1	3592.5	3585.1	3570.5	3546.6	3512.9	3460.9	3366.7
-77.5°	2865.7	2890.4	2879.9	2861.2	2879.9	2890.4	2865.7	2834.7	2797.5	2751.1	2678.5
-80°	2190.2	2205.3	2197.1	2183.9	2197.1	2205.3	2190.2	2170.7	2146.7	2116.5	2062.8
-82.5°	1625.0	1637.0	1623.4	1606.6	1623.4	1637.0	1625.0	1610.7	1594.1	1574.5	1537.3
-85°	1172.1	1173.8	1172.7	1170.6	1172.7	1173.8	1172.1	1169.2	1165.2	1159.5	1132.8
-87.5°	899.2	902.0	899.7	897.1	899.7	902.0	899.2	896.2	892.8	889.2	868.0
-90°	4.1	3.6	4.5	5.4	4.5	3.6	4.1	4.5	5.0	5.4	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°	731.0	713.1	695.2	687.6	680.0	672.4	664.8	640.7	616.6	592.4	568.3
87.5°	33.1	29.0	25.0	25.0	25.1	25.1	25.0	23.2	21.4	19.8	18.3
85°	77.2	71.6	66.1	66.4	66.4	66.0	65.0	60.0	54.8	49.6	44.3
82.5°	122.4	116.7	111.0	109.1	107.2	105.4	103.5	98.4	93.0	87.3	81.4
80°	155.4	150.1	145.3	143.7	141.7	139.0	135.5	129.8	123.6	117.0	109.8
77.5°	164.6	163.5	162.8	165.4	167.0	167.6	166.5	162.0	155.6	148.6	139.9
75°	150.1	154.3	160.2	169.7	178.1	185.5	188.0	186.4	183.2	178.4	169.7
72.5°	123.8	130.8	141.0	155.8	170.8	182.9	192.7	200.0	204.2	205.2	198.4
70°	97.1	104.1	115.7	131.4	147.5	163.8	182.5	200.7	216.8	224.9	220.8
67.5°	74.1	80.2	92.2	107.5	124.1	141.2	164.4	188.3	209.4	227.0	234.1
65°	56.8	61.5	73.3	88.8	104.7	121.3	146.0	170.8	196.1	220.4	236.7
62.5°	46.2	51.0	64.8	78.8	92.7	109.8	135.7	161.7	185.6	209.5	234.4
60°	39.9	45.9	61.8	76.3	89.2	109.9	139.3	163.9	183.6	216.2	242.9
57.5°	57.1	54.9	78.3	93.0	98.1	129.1	161.1	181.1	201.3	244.3	266.8
55°	206.8	221.4	235.0	202.1	156.1	238.5	246.5	228.6	265.9	299.7	331.3
52.5°	734.9	742.1	687.1	551.2	526.1	547.7	489.9	467.6	443.5	481.3	461.4
50°	1743.2	1705.1	1547.0	1319.0	1295.5	1149.8	1031.5	903.4	904.8	850.1	730.5
47.5°	3362.4	3139.7	2852.2	2589.8	2431.1	2290.4	2013.0	1649.1	1625.3	1425.0	1243.9
45°	5216.7	4864.2	4489.0	4088.5	3719.9	3475.0	3279.1	2911.7	2557.5	2318.4	1906.1
42.5°	6839.1	6549.2	6164.1	5594.2	5044.4	4633.7	4320.7	4017.5	3651.5	3304.8	2894.7
40°	8218.4	7821.5	7449.8	7024.6	6401.6	5749.9	5387.2	4989.3	4614.6	4223.2	3807.9
37.5°	9526.9	8983.0	8631.4	8181.4	7636.9	7066.3	6530.2	6044.7	5520.7	5081.5	4609.4
35°	10948.1	10379.0	9945.3	9442.3	8819.4	8329.1	7746.5	7140.0	6550.8	5948.9	5410.2
32.5°	12727.6	12173.7	11505.0	10880.8	10289.3	9635.6	8956.6	8242.2	7617.1	6915.3	6230.5
30°	15105.3	14328.2	13463.6	12613.3	11964.3	11148.3	10217.4	9497.7	8747.8	7917.0	7076.3
27.5°	18063.8	16826.7	15747.1	14838.7	13838.6	12843.4	11808.4	10826.1	9935.9	8983.6	8004.7
25°	21333.0	19930.5	18533.9	17342.2	16052.9	14729.4	13496.4	12312.3	11201.9	10086.2	8884.9
22.5°	24667.8	23162.3	21632.2	20021.2	18398.2	16822.9	15332.0	13819.0	12469.6	11150.6	9823.0
20°	28111.4	26302.3	24575.3	22720.3	20764.7	18851.7	17196.0	15409.2	13763.2	12230.5	10753.7
17.5°	31675.0	29430.5	27296.0	25204.0	23058.5	20954.4	18877.7	16905.8	15044.1	13291.0	11654.6
15°	35088.0	32465.3	30007.8	27602.1	25181.4	22745.6	20392.6	18260.7	16305.7	14370.3	12540.1
12.5°	37908.0	35237.8	32576.9	29724.8	27010.7	24399.6	21886.5	19562.3	17431.3	15291.9	13287.3
10°	40281.3	37466.7	34580.0	31626.0	28717.6	25922.3	23208.6	20620.6	18243.8	16039.6	13955.3
7.5°	42068.6	39202.1	36278.9	33238.7	30179.7	27196.2	24285.9	21522.3	18967.2	16671.5	14540.6
5°	43414.5	40520.4	37488.4	34429.3	31380.9	28301.8	25215.0	22300.6	19589.6	17189.4	15039.7
2.5°	44431.6	41464.4	38360.9	35314.2	32311.7	29191.9	25973.4	22933.3	20170.8	17655.3	15367.2
0°	45047.9	42063.5	38925.3	35840.7	32811.5	29791.3	26542.3	23400.6	20662.7	18033.8	15605.1
-2.5°	45343.1	42362.7	39134.6	35957.1	32917.9	29911.7	26853.5	23803.4	20972.9	18392.8	15936.3
-5°	45357.0	42386.8	39209.4	36059.4	32965.4	29970.1	26961.6	24011.3	21181.9	18627.9	16166.7
-7.5°	45088.8	42166.4	39026.9	35896.9	32833.3	29867.9	26889.1	24043.9	21306.7	18715.9	16281.3
-10°	44634.5	41770.6	38671.0	35534.4	32521.2	29554.7	26670.0	23954.8	21277.3	18689.6	16298.2
-12.5°	43667.6	40998.9	38019.5	34942.0	31995.6	29070.0	26308.0	23727.7	21088.3	18551.8	16218.6
-15°	42539.7	39937.5	37055.2	34139.6	31254.3	28457.3	25794.4	23268.2	20703.1	18296.0	16044.6
-17.5°	41025.8	38614.2	35872.1	33164.6	30399.8	27719.7	25150.3	22684.4	20258.4	17928.5	15723.1
-20°	39226.1	36901.4	34569.2	32053.6	29414.0	26850.9	24357.4	22030.4	19727.7	17460.4	15341.9



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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°	37270.0	35164.5	32972.1	30681.3	28301.2	25872.9	23520.4	21288.9	19094.4	16864.1	14883.4
-25°	35204.8	33296.3	31255.1	29162.9	27013.5	24768.2	22568.1	20439.6	18315.4	16228.0	14358.6
-27.5°	33061.0	31305.0	29540.5	27599.4	25600.2	23573.7	21525.2	19494.0	17457.2	15580.4	13810.2
-30°	30861.0	29300.9	27711.4	26032.2	24158.1	22258.9	20385.5	18502.8	16635.8	14866.3	13189.5
-32.5°	28618.2	27257.8	25823.8	24351.2	22656.7	20895.1	19183.6	17493.4	15763.2	14125.4	12578.4
-35°	26394.0	25221.8	23946.2	22573.7	21108.5	19526.5	17940.9	16402.5	14880.4	13341.5	11918.7
-37.5°	24261.0	23237.1	22067.2	20799.0	19519.8	18146.9	16718.6	15317.1	13919.3	12558.7	11225.4
-40°	22145.0	21215.1	20224.8	19091.6	17952.9	16784.1	15519.9	14222.0	12969.1	11741.6	10502.1
-42.5°	20098.6	19289.1	18430.2	17450.5	16425.8	15416.9	14328.2	13156.0	11999.2	10884.4	9803.9
-45°	18144.3	17440.6	16675.6	15862.1	14961.2	14063.3	13132.2	12080.6	11027.5	10042.2	9069.6
-47.5°	16274.7	15668.8	15007.9	14333.0	13552.3	12736.6	11910.7	10998.5	10098.4	9194.9	8352.6
-50°	14480.6	13967.9	13417.5	12850.0	12204.7	11474.4	10744.3	9997.2	9185.8	8403.7	7633.3
-52.5°	12769.0	12375.2	11945.4	11465.7	10937.2	10309.4	9649.2	9016.9	8321.5	7632.9	6948.4
-55°	11308.3	10950.9	10592.4	10191.9	9755.3	9217.0	8652.1	8086.2	7514.8	6884.7	6291.3
-57.5°	9973.3	9641.4	9341.7	9007.7	8640.0	8192.3	7713.4	7216.0	6726.4	6183.1	5643.1
-60°	8750.7	8434.8	8182.5	7904.9	7602.5	7231.1	6823.4	6395.2	5947.3	5502.3	5045.5
-62.5°	7591.8	7315.8	7103.3	6881.5	6638.3	6349.5	5983.9	5621.2	5242.5	4847.7	4475.6
-65°	6543.5	6308.7	6117.3	5942.5	5750.0	5535.4	5215.3	4899.2	4585.4	4262.4	3929.9
-67.5°	5602.8	5403.6	5239.8	5090.1	4937.1	4767.9	4514.5	4238.9	3972.9	3708.9	3428.1
-70°	4753.1	4589.9	4449.4	4324.4	4194.3	4057.1	3861.8	3636.6	3406.4	3181.4	2946.8
-72.5°	3981.4	3848.3	3727.9	3627.0	3515.1	3401.7	3252.9	3067.8	2877.0	2680.7	2484.6
-75°	3265.5	3157.8	3056.4	2977.6	2891.7	2798.9	2684.8	2534.2	2381.7	2227.6	2070.8
-77.5°	2600.5	2517.6	2437.2	2379.2	2315.2	2245.3	2158.0	2038.5	1926.3	1811.8	1694.8
-80°	2005.4	1944.5	1884.5	1847.5	1807.5	1764.6	1711.8	1620.3	1526.8	1436.1	1349.4
-82.5°	1497.8	1456.1	1414.2	1394.9	1372.5	1346.9	1314.9	1248.5	1181.2	1113.1	1044.6
-85°	1105.1	1076.3	1047.2	1035.8	1022.9	1008.4	991.1	947.7	903.5	858.5	813.0
-87.5°	846.7	825.2	803.6	795.3	786.7	777.8	768.5	739.3	710.1	680.8	651.5
-90°	6.3	6.7	7.1	7.6	8.0	8.5	8.9	9.4	9.8	10.3	10.7



REPORT NUMBER: P701602 (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°
90°	542.4	516.5	490.6	464.7	438.3	412.0	385.6	359.2	329.3	299.4	269.4
87.5°	19.6	20.8	21.9	22.8	22.4	21.9	21.4	20.8	21.7	22.3	22.6
85°	41.5	39.2	37.3	35.9	33.9	31.3	30.3	29.2	30.5	31.2	31.4
82.5°	75.3	68.7	62.6	57.6	56.1	53.7	50.3	46.2	43.9	40.9	40.2
80°	100.9	92.4	84.3	77.7	76.9	76.2	72.7	68.3	64.7	60.2	54.9
77.5°	128.1	116.3	104.6	96.1	93.4	91.1	89.1	88.3	85.5	79.5	72.5
75°	156.4	142.6	128.9	119.5	114.1	105.6	101.9	102.4	105.3	99.2	90.1
72.5°	185.5	171.0	154.8	145.6	142.7	135.2	122.8	118.1	125.9	123.2	109.9
70°	211.6	199.7	184.0	180.0	176.4	166.5	155.0	151.7	148.4	148.2	136.4
67.5°	235.5	224.9	211.2	216.8	216.3	207.3	189.7	191.4	190.1	174.9	163.9
65°	243.0	243.7	240.6	255.8	259.1	251.0	234.2	236.9	233.7	218.6	192.2
62.5°	250.6	257.5	269.4	297.2	305.6	299.2	284.2	293.9	281.9	263.8	231.6
60°	259.2	272.1	305.0	339.9	355.1	351.0	347.7	354.6	342.8	310.4	276.0
57.5°	287.6	293.4	352.1	392.3	409.4	407.5	418.9	425.5	406.6	369.2	322.0
55°	334.3	356.6	422.3	459.2	474.7	469.7	501.1	504.8	476.0	432.8	371.4
52.5°	425.9	477.0	533.6	553.5	556.0	557.0	599.7	590.0	558.3	498.3	433.4
50°	631.3	676.2	706.2	694.3	657.1	689.1	710.4	697.2	645.1	570.0	498.3
47.5°	1064.6	1046.1	968.9	884.6	817.2	844.9	857.4	815.5	736.3	653.7	564.5
45°	1732.2	1577.9	1370.3	1189.8	1046.7	1062.5	1030.6	943.5	853.9	744.2	632.1
42.5°	2458.1	2225.5	1961.2	1535.6	1400.3	1315.7	1222.8	1115.4	978.7	837.6	708.5
40°	3310.3	2909.9	2604.0	2145.2	1777.3	1592.4	1470.3	1306.6	1109.4	939.4	791.7
37.5°	4115.9	3625.6	3242.4	2720.3	2192.9	1942.6	1738.5	1511.3	1249.2	1053.1	875.9
35°	4860.5	4320.8	3787.1	3239.2	2688.2	2294.0	2022.1	1739.6	1412.1	1165.8	961.1
32.5°	5588.9	4961.8	4341.7	3728.4	3143.4	2645.7	2330.7	1940.8	1568.3	1277.1	1046.9
30°	6337.8	5606.1	4893.9	4201.8	3567.3	3037.6	2609.2	2129.3	1717.7	1386.9	1134.6
27.5°	7089.7	6242.0	5447.7	4689.4	3988.1	3396.5	2822.0	2305.0	1859.9	1501.7	1226.1
25°	7860.5	6912.3	6019.2	5176.8	4391.6	3672.7	3026.0	2468.7	2005.0	1622.7	1315.1
22.5°	8644.0	7592.0	6575.6	5651.8	4726.6	3951.0	3239.9	2640.7	2145.0	1737.0	1401.4
20°	9381.5	8261.5	7096.1	6033.1	5057.5	4239.0	3467.3	2803.0	2274.1	1844.7	1484.7
17.5°	10092.5	8863.8	7558.5	6406.3	5378.0	4503.7	3689.1	2954.9	2392.2	1945.5	1564.6
15°	10828.5	9391.5	8005.8	6749.6	5670.5	4744.9	3902.7	3095.8	2499.5	2039.3	1631.7
12.5°	11487.3	9904.3	8423.5	7061.1	5934.1	4962.7	4105.8	3225.0	2596.2	2122.0	1684.1
10°	12073.6	10393.2	8806.6	7339.5	6168.3	5157.1	4295.7	3356.7	2709.8	2196.2	1732.8
7.5°	12586.7	10848.8	9149.9	7583.2	6374.8	5318.5	4439.7	3506.7	2822.2	2265.0	1777.1
5°	13008.8	11225.9	9479.8	7864.5	6565.8	5449.7	4549.9	3643.9	2928.3	2327.5	1816.6
2.5°	13284.1	11482.7	9775.3	8125.9	6729.5	5560.5	4633.7	3767.4	3025.9	2383.0	1850.5
0°	13487.4	11671.7	10015.0	8349.4	6862.5	5649.1	4694.8	3876.3	3113.2	2430.5	1878.3
-2.5°	13749.3	11856.8	10164.6	8526.5	7048.5	5806.2	4798.6	3945.2	3174.4	2489.8	1924.4
-5°	13929.7	11977.9	10262.1	8659.8	7198.9	5935.4	4881.7	3998.3	3223.4	2539.9	1963.4
-7.5°	14055.8	12075.8	10327.2	8748.2	7311.8	6033.2	4941.8	4035.4	3260.3	2580.3	1994.9
-10°	14104.2	12128.5	10362.3	8774.4	7347.4	6079.5	4977.4	4056.5	3285.4	2610.7	2018.4
-12.5°	14065.9	12103.4	10335.3	8753.0	7336.4	6078.4	4990.8	4073.1	3299.5	2630.7	2033.6
-15°	13940.0	11997.3	10244.3	8683.6	7285.4	6047.3	4982.0	4077.0	3305.3	2637.5	2040.3
-17.5°	13715.7	11808.1	10087.8	8565.6	7193.7	5985.8	4950.7	4061.9	3296.7	2629.9	2035.6
-20°	13398.7	11559.7	9874.2	8399.1	7060.9	5894.1	4897.2	4027.2	3273.1	2610.7	2020.6



REPORT NUMBER: P701602 (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°	13020.2	11277.4	9669.2	8211.4	6905.9	5772.3	4821.5	3972.7	3234.5	2579.5	1997.5
-25°	12577.1	10946.6	9410.1	8007.0	6743.6	5664.7	4734.5	3898.1	3180.5	2536.3	1966.4
-27.5°	12137.9	10579.0	9092.2	7762.0	6570.8	5533.9	4635.3	3824.8	3115.2	2480.9	1927.3
-30°	11677.8	10178.8	8770.1	7493.8	6363.8	5385.3	4512.6	3734.2	3043.1	2422.6	1880.2
-32.5°	11140.9	9715.7	8419.6	7233.4	6157.2	5205.7	4367.1	3625.5	2956.3	2360.3	1835.3
-35°	10551.3	9249.7	8035.0	6936.8	5927.1	5023.5	4211.4	3498.8	2854.9	2288.9	1786.6
-37.5°	9924.5	8753.9	7674.8	6622.8	5658.3	4815.0	4054.8	3367.2	2738.9	2208.4	1731.2
-40°	9340.9	8243.9	7242.7	6290.2	5390.9	4581.0	3878.5	3228.7	2630.3	2119.2	1669.2
-42.5°	8717.3	7733.1	6801.4	5909.9	5107.6	4365.0	3686.6	3077.1	2522.6	2034.5	1600.9
-45°	8119.9	7201.2	6339.6	5551.8	4806.0	4129.1	3504.4	2916.7	2402.1	1948.7	1531.0
-47.5°	7497.9	6671.8	5892.0	5168.1	4521.7	3884.1	3308.5	2765.6	2269.0	1855.7	1461.1
-50°	6896.4	6147.1	5447.3	4804.3	4203.5	3654.1	3104.6	2599.2	2149.6	1751.7	1384.2
-52.5°	6289.9	5637.1	5015.6	4434.0	3908.1	3410.5	2900.1	2421.8	2019.7	1646.5	1300.7
-55°	5699.0	5146.3	4589.4	4079.4	3604.3	3152.8	2679.3	2262.1	1879.9	1536.8	1212.7
-57.5°	5147.5	4656.7	4182.7	3726.2	3292.1	2874.2	2470.4	2091.2	1741.4	1419.8	1134.2
-60°	4603.2	4196.3	3776.5	3368.0	2971.1	2606.1	2264.5	1915.2	1597.6	1300.3	1048.4
-62.5°	4102.8	3735.6	3373.9	3002.1	2665.4	2353.4	2050.9	1741.3	1446.1	1191.9	957.0
-65°	3615.1	3292.3	2965.5	2666.6	2374.8	2098.2	1840.1	1559.0	1308.1	1078.3	867.8
-67.5°	3138.9	2870.4	2603.6	2336.3	2093.2	1856.3	1620.0	1390.4	1169.5	959.7	791.2
-70°	2707.7	2469.3	2250.4	2037.8	1823.3	1613.5	1423.3	1224.5	1025.5	864.6	711.7
-72.5°	2297.0	2110.8	1926.6	1741.7	1569.9	1398.5	1227.8	1060.9	910.9	767.0	629.5
-75°	1911.4	1767.3	1626.4	1482.0	1330.5	1181.6	1053.6	926.0	793.6	666.5	560.2
-77.5°	1576.0	1457.4	1339.3	1229.4	1114.4	1002.8	894.8	787.7	680.5	585.0	494.4
-80°	1263.6	1177.5	1091.5	1004.3	911.1	821.2	745.4	669.1	584.6	503.9	427.0
-82.5°	977.6	919.0	862.4	804.4	741.3	678.8	617.0	555.4	486.8	421.1	370.5
-85°	768.6	723.6	677.9	631.6	583.0	535.1	499.6	463.7	421.2	379.0	337.3
-87.5°	622.7	593.8	564.6	535.1	504.5	473.8	442.9	411.8	375.5	339.5	303.6
-90°	11.2	11.6	12.1	12.5	12.5	12.5	12.5	12.5	13.0	13.4	13.9



REPORT NUMBER: P701602 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-80-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	239.5	198.4	157.3	116.2	75.1	43.8	12.5
87.5°	22.6	21.9	21.0	19.7	18.2	15.9	12.5
85°	31.0	29.6	27.7	25.1	22.1	18.4	12.5
82.5°	39.4	37.3	34.3	30.6	26.0	20.9	12.5
80°	48.7	44.9	41.0	36.0	29.9	23.3	12.5
77.5°	64.7	55.7	47.7	41.4	33.8	25.8	12.5
75°	81.2	72.2	55.9	46.7	37.8	28.3	12.5
72.5°	98.0	88.9	71.4	52.1	41.8	30.7	12.5
70°	116.7	105.8	87.0	58.9	45.8	33.2	12.5
67.5°	145.2	123.1	102.7	72.1	49.8	35.6	12.5
65°	174.6	145.7	118.5	85.2	53.8	38.0	12.5
62.5°	204.7	173.8	134.4	98.3	57.9	40.4	12.5
60°	235.8	202.3	150.5	111.4	62.0	42.7	12.5
57.5°	278.5	231.2	175.0	124.4	71.5	45.0	12.5
55°	323.4	260.6	200.0	137.4	81.0	47.3	12.5
52.5°	369.2	292.1	225.0	150.3	90.3	49.6	12.5
50°	415.8	332.2	250.1	163.1	99.4	51.8	12.5
47.5°	464.7	372.5	275.2	177.4	108.3	54.0	12.5
45°	523.2	412.9	300.3	196.4	117.1	56.2	12.5
42.5°	582.1	453.5	325.4	215.0	125.6	58.3	12.5
40°	641.3	494.0	353.8	233.5	134.0	60.3	12.5
37.5°	700.7	534.4	385.3	251.4	142.1	62.3	12.5
35°	760.1	579.6	416.2	268.8	149.9	64.2	12.5
32.5°	822.6	626.8	446.6	285.6	157.4	66.1	12.5
30°	892.1	673.2	476.2	301.7	164.7	67.9	12.5
27.5°	960.9	718.6	503.2	317.0	171.6	69.6	12.5
25°	1028.5	762.8	528.8	331.6	178.2	71.3	12.5
22.5°	1094.6	803.7	552.9	345.4	184.4	72.8	12.5
20°	1158.9	837.7	575.7	358.4	190.3	74.3	12.5
17.5°	1209.4	869.1	596.9	370.5	195.8	75.7	12.5
15°	1248.7	897.9	616.6	381.7	200.9	76.9	12.5
12.5°	1283.4	923.9	634.6	391.9	205.5	78.1	12.5
10°	1313.5	947.2	650.8	401.1	209.7	79.2	12.5
7.5°	1339.1	967.7	665.2	409.2	213.4	80.1	12.5
5°	1360.1	985.3	677.8	416.3	216.6	80.9	12.5
2.5°	1376.6	999.9	688.4	422.3	219.4	81.6	12.5
0°	1388.6	1011.5	697.0	427.1	221.6	82.2	12.5
-2.5°	1422.0	1030.4	708.4	433.6	225.0	83.8	12.5
-5°	1450.5	1046.0	717.6	438.8	227.9	85.3	12.5
-7.5°	1473.7	1058.2	724.6	442.8	230.2	86.6	12.5
-10°	1491.2	1066.9	729.2	445.5	231.9	87.8	12.5
-12.5°	1502.6	1072.0	731.5	446.9	233.1	88.8	12.5
-15°	1507.4	1073.1	731.2	446.9	233.7	89.7	12.5
-17.5°	1505.5	1070.4	728.4	445.6	233.8	90.4	12.5
-20°	1497.2	1063.5	723.0	442.8	233.2	91.0	12.5



REPORT NUMBER: P701602 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-80-7F-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	1484.0	1052.6	715.0	438.7	232.1	91.4	12.5
-25°	1465.0	1041.8	704.3	433.2	230.4	91.6	12.5
-27.5°	1440.2	1028.4	691.0	426.2	228.2	91.7	12.5
-30°	1409.6	1010.6	675.4	417.8	225.3	91.6	12.5
-32.5°	1373.3	988.2	661.2	408.0	221.9	91.3	12.5
-35°	1339.4	961.4	644.1	396.8	217.9	90.9	12.5
-37.5°	1303.1	932.6	624.2	384.2	213.3	90.3	12.5
-40°	1261.0	904.8	601.4	370.2	208.2	89.5	12.5
-42.5°	1213.1	873.3	580.3	355.7	202.5	88.6	12.5
-45°	1159.5	838.0	561.3	341.4	196.3	87.5	12.5
-47.5°	1100.2	798.9	540.1	325.7	189.6	86.2	12.5
-50°	1046.4	756.3	516.7	314.5	182.4	84.8	12.5
-52.5°	989.8	710.3	491.1	304.2	174.7	83.2	12.5
-55°	928.9	672.3	463.5	292.7	166.5	81.5	12.5
-57.5°	863.7	633.8	433.9	280.1	157.8	79.6	12.5
-60°	796.5	592.7	403.0	266.4	148.8	77.5	12.5
-62.5°	741.7	549.0	381.6	251.7	144.1	75.4	12.5
-65°	683.8	503.0	358.7	236.1	139.1	73.1	12.5
-67.5°	623.0	462.3	334.3	219.5	133.7	70.6	12.5
-70°	559.5	427.1	308.7	202.2	128.2	68.0	12.5
-72.5°	509.0	390.2	281.8	191.3	122.3	65.4	12.5
-75°	458.8	351.8	253.8	181.8	116.2	62.6	12.5
-77.5°	406.6	312.0	236.9	171.7	109.8	59.7	12.5
-80°	352.9	284.6	221.9	161.3	103.2	56.6	12.5
-82.5°	323.0	263.9	206.4	150.5	96.4	53.6	12.5
-85°	295.8	242.6	190.4	139.4	89.5	50.4	12.5
-87.5°	267.9	220.7	174.1	127.9	82.4	47.1	12.5
-90°	14.3	14.3	14.3	14.3	14.3	13.4	12.5

(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

