

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: P735983 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-57-70-4S-VHE-S**

Issue Date: 1/29/2024

Test Information

Test Method: LM-79-08
Report Number: P735983 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0640L-57-70-4S-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 5700K, 70 CRI LEDS AND 4S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

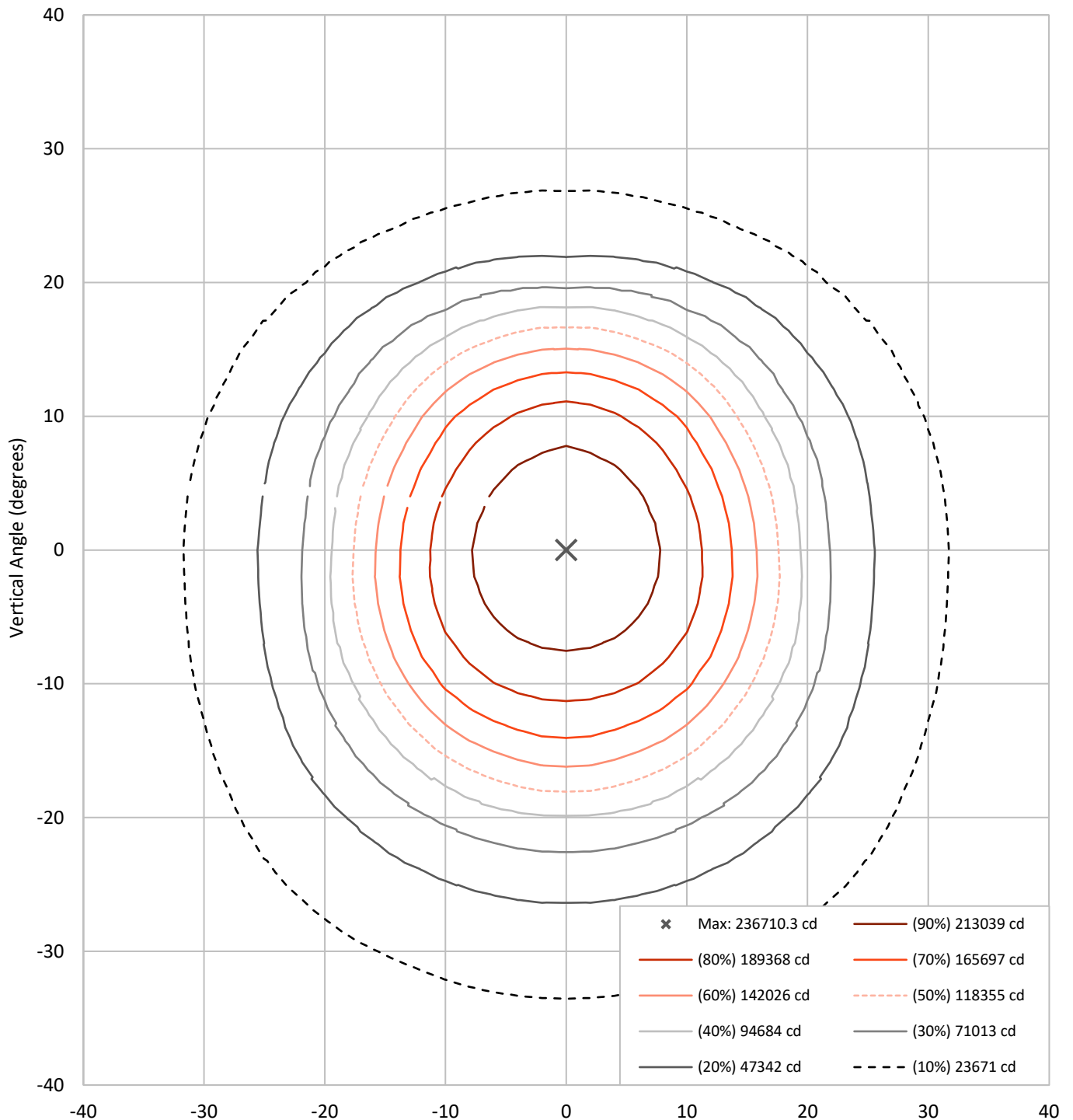
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	98192.2 lumens	Max Intensity:	236710.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	149.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	35.2°H x 34.7°V	Field Angle (10%):	63.4°H x 60.3°V
Beam Lumens:	52702.7 lumens	Field Lumens:	85763 lumens
Beam Efficiency:	53.7%	Field Efficiency:	87.3%

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

REPORT NUMBER: P735983 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: EPH-LS-08-0640L-57-70-4S-VHE-S

Iso-Candela Plot





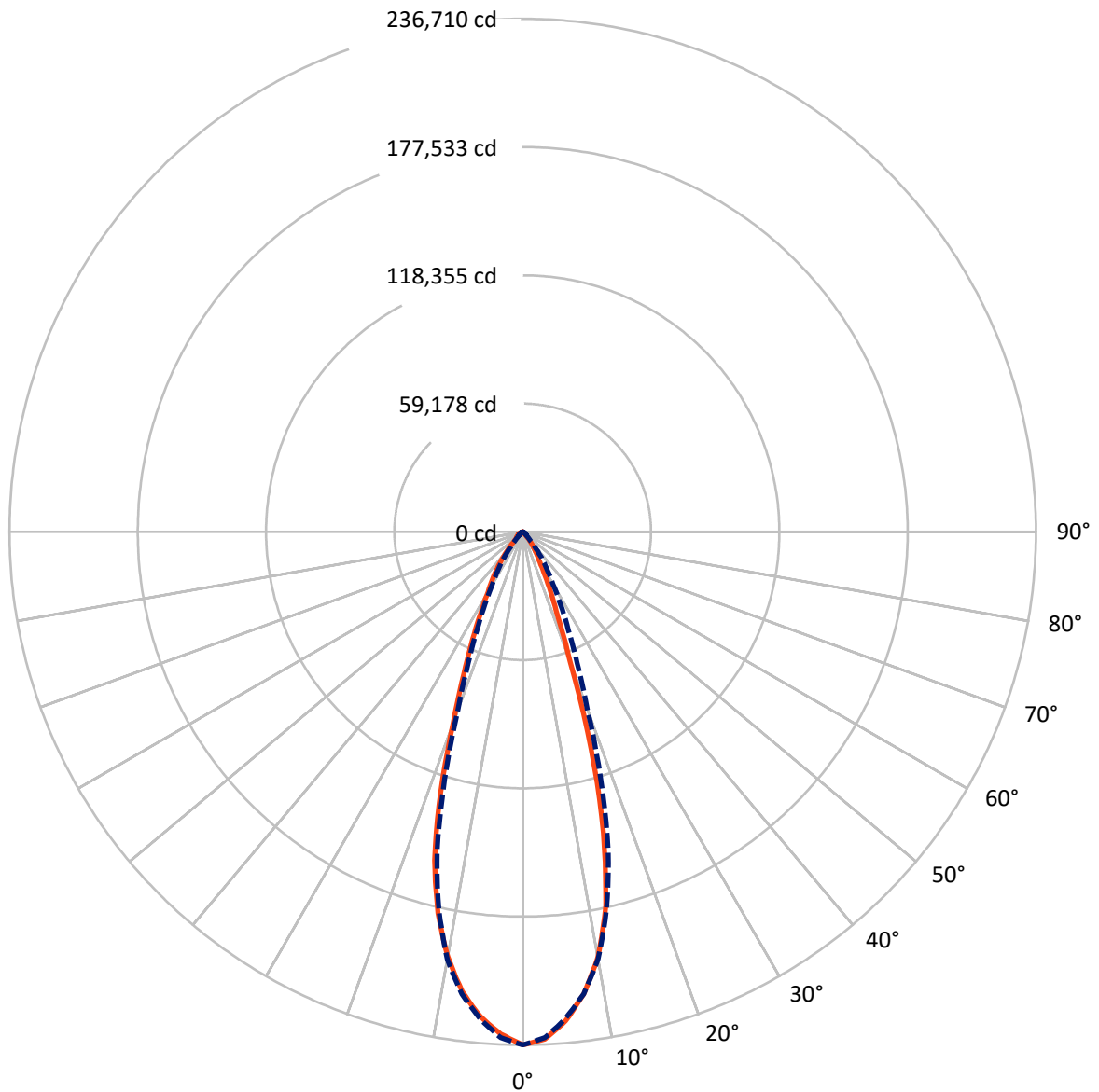
REPORT NUMBER: P735983 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-70-4S-VHE-S

Lumen Table

90	0.3	1.1	1.8	2.5	2.9	2.5	1.8	1.1	0.3									
80	0.3	1.1	1.8	2.5	2.9	2.5	1.8	1.1	0.3									
70	0.3	0.2	0.3	0.6	0.8	0.7	0.7	0.8	0.8	0.7	0.7	0.8	0.6	0.3	0.2	0.3		
60		0.5	0.8	1.3	1.3	1.0	1.2	1.4	1.4	1.2	1.0	1.3	1.3	0.8	0.5			
50	1.0	1.2	2.7	5.6	10.3	16.3	23.8	30.8	30.8	23.8	16.3	10.3	5.6	2.7	1.2	1.0		
40		2.9	9.3	17.8	29.4	67.8	151.5	245.5	245.5	151.5	67.8	29.4	17.8	9.3	2.9			
30	2.1	5.2	15.6	30.2	94.8	291.5	636.1	964.6	964.6	636.1	291.5	94.8	30.2	15.6	5.2	2.1		
20		7.0	20.5	48.3	246.7	818.0	2185.6	3883.6	3883.6	2185.6	818.0	246.7	48.3	20.5	7.0			
10	3.2	8.6	24.0	67.0	386.0	1342.6	3973.8	6363.2	6363.2	3973.8	1342.6	386.0	67.0	24.0	8.6	3.2		
0		9.6	26.6	74.9	413.8	1410.1	4165.9	6413.5	6413.5	4165.9	1410.1	413.8	74.9	26.6	9.6			
-10	3.6	9.8	28.1	68.9	330.3	1041.6	2622.4	4308.3	4308.3	2622.4	1041.6	330.3	68.9	28.1	9.8	3.6		
-20		9.2	28.0	59.1	181.7	578.5	1135.8	1640.2	1640.2	1135.8	578.5	181.7	59.1	28.0	9.2			
-30	3.4	7.8	25.2	49.5	87.3	214.7	432.5	597.9	597.9	432.5	214.7	87.3	49.5	25.2	7.8	3.4		
-40		6.1	18.9	39.6	62.4	86.6	118.2	151.3	151.3	118.2	86.6	62.4	39.6	18.9	6.1			
-50	2.9	4.6	11.8	25.7	44.4	59.9	72.3	81.1	81.1	72.3	59.9	44.4	25.7	11.8	4.6	2.9		
-60		3.4	6.9	13.0	22.3	31.6	40.2	45.9	45.9	40.2	31.6	22.3	13.0	6.9	3.4			
-70	2.1	3.4	6.9	13.0	22.3	31.6	40.2	45.9	45.9	40.2	31.6	22.3	13.0	6.9	3.4	2.1		
-80		12.4	28.0	45.4	55.7	45.4	28.0	12.4	2.1									
-90	2.1	12.4	28.0	45.4	55.7	45.4	28.0	12.4	2.1									

REPORT NUMBER: P735983 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: EPH-LS-08-0640L-57-70-4S-VHE-S

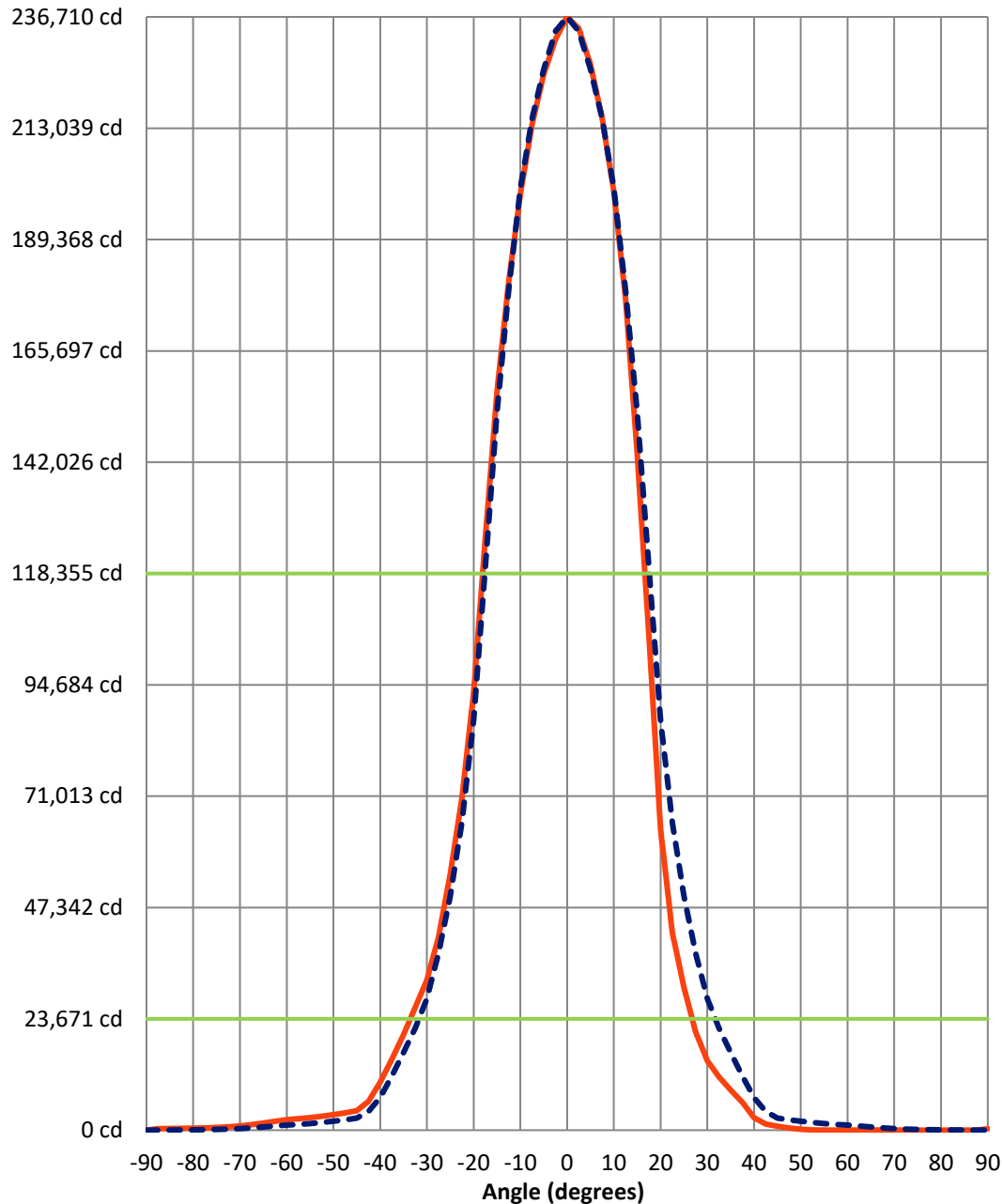
Luminous Intensity Polar Plot



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

REPORT NUMBER: P735983 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-70-4S-VHE-S

Luminous Intensity Plot



Beam:
 H Angle: 35.2°
 V Angle: 34.7°
 Lumens: 52702.7
 Efficiency: 53.7%

Field:
 H Angle: 63.4°
 V Angle: 60.3°
 Lumens: 85763
 Efficiency: 87.3%

Spill:
 Lumens: 12429.2
 Efficiency: 12.7%

— Vertical Distribution through 0-Deg
 - - - Horizontal Distribution through 0-Deg



REPORT NUMBER: P735983 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-70-4S-VHE-S

FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	10.5	19.9	29.3	48.0	66.7	83.7	100.7	114.2	127.6	136.4	145.2
87.5°	10.5	9.6	8.4	8.5	8.6	8.6	8.5	8.0	7.4	7.5	7.5
85°	10.5	9.8	8.6	8.8	9.0	9.0	8.8	8.3	7.8	7.9	8.0
82.5°	10.5	10.0	8.8	9.1	9.4	9.3	9.2	8.7	8.3	8.5	8.5
80°	10.5	10.2	9.1	9.4	9.8	9.7	9.5	9.3	9.1	9.2	9.1
77.5°	10.5	10.4	9.3	9.7	10.2	10.2	10.1	10.0	9.9	9.9	9.5
75°	10.5	10.6	9.6	10.0	10.6	10.7	10.7	10.7	10.7	10.3	9.7
72.5°	10.5	10.8	9.8	10.3	11.0	11.2	11.4	11.4	11.2	10.7	9.9
70°	10.5	11.1	10.1	10.6	11.5	11.8	12.0	12.1	11.8	11.1	10.8
67.5°	10.5	11.3	10.4	11.1	11.9	12.3	12.8	12.8	12.4	12.1	11.9
65°	10.5	11.5	10.7	11.5	12.4	13.1	13.7	13.5	13.8	13.2	13.3
62.5°	10.5	11.8	11.1	12.0	12.9	14.1	14.7	15.0	15.5	14.7	15.9
60°	10.5	12.0	11.4	12.5	13.5	15.2	15.8	17.1	17.3	18.5	18.9
57.5°	10.5	12.3	12.1	13.0	14.7	16.4	18.0	19.3	21.5	23.0	25.5
55°	10.5	12.5	12.8	13.5	16.0	17.6	20.4	21.9	26.7	29.0	34.3
52.5°	10.5	12.7	13.5	14.0	17.3	19.1	23.0	27.0	32.2	39.2	43.8
50°	10.5	13.0	14.3	14.5	18.8	21.7	25.7	32.7	39.5	50.1	56.7
47.5°	10.5	13.3	15.1	15.2	20.2	24.5	28.9	38.6	50.2	61.7	71.3
45°	10.5	13.5	15.9	16.4	21.8	27.4	34.2	44.7	61.6	76.1	87.0
42.5°	10.5	13.8	16.8	17.6	23.4	30.4	39.6	53.4	73.5	91.1	112.2
40°	10.5	14.0	17.7	19.3	25.5	33.6	45.3	64.1	86.5	106.9	141.3
37.5°	10.5	14.3	18.7	21.4	27.9	36.8	51.3	74.9	101.5	127.5	172.9
35°	10.5	14.5	19.7	23.4	30.4	41.1	57.3	85.9	117.2	156.7	211.1
32.5°	10.5	14.8	20.7	25.5	32.9	45.9	64.3	97.0	133.5	186.6	254.8
30°	10.5	15.0	21.8	27.7	35.5	50.6	73.2	108.3	150.2	217.2	296.4
27.5°	10.5	15.3	22.8	29.8	38.9	55.3	81.9	120.6	168.6	248.1	335.9
25°	10.5	15.5	23.9	31.9	42.3	59.8	90.4	132.4	189.8	280.3	373.4
22.5°	10.5	15.8	25.0	34.1	45.7	64.5	98.5	143.6	209.7	305.4	411.7
20°	10.5	16.0	26.1	36.2	49.0	69.8	106.3	154.2	228.1	328.7	442.8
17.5°	10.5	16.2	27.1	38.3	52.2	75.0	114.4	164.1	245.0	350.4	471.8
15°	10.5	16.5	28.2	40.3	55.3	80.0	122.4	174.0	260.5	370.3	499.0
12.5°	10.5	16.7	29.3	42.4	58.3	84.9	129.9	184.0	276.0	388.3	524.4
10°	10.5	16.9	30.3	44.3	61.2	89.5	136.9	193.5	291.4	411.5	552.2
7.5°	10.5	17.1	31.3	46.2	63.9	93.9	143.4	202.2	305.3	434.4	588.0
5°	10.5	17.3	32.2	48.1	66.6	98.0	149.3	210.2	317.6	455.7	621.6
2.5°	10.5	17.4	33.1	49.8	69.1	101.9	154.6	217.4	328.3	475.0	652.6
0°	10.5	17.6	34.0	51.5	71.4	105.4	159.3	223.7	337.3	491.8	680.4
-2.5°	10.5	18.2	35.3	53.7	74.7	109.6	164.8	231.4	349.1	505.7	694.3
-5°	10.5	18.8	36.5	55.8	77.9	113.5	169.6	238.1	359.0	516.7	704.4
-7.5°	10.5	19.4	37.7	57.7	80.9	117.1	173.7	243.8	366.7	524.8	710.8
-10°	10.5	20.0	38.8	59.6	83.7	120.3	177.2	248.4	372.0	529.8	713.6
-12.5°	10.5	20.6	39.8	61.3	86.2	123.1	179.9	251.8	374.8	531.8	716.7
-15°	10.5	21.1	40.7	62.8	88.5	125.5	181.8	254.0	374.3	529.4	716.6
-17.5°	10.5	21.6	41.6	64.2	90.6	127.6	183.0	255.5	370.7	523.6	710.6
-20°	10.5	22.1	42.4	65.5	92.5	129.2	183.9	256.2	364.8	514.1	698.3



REPORT NUMBER: P735983 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-70-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	10.5	22.5	43.1	66.6	94.0	130.5	184.8	255.9	356.6	501.0	680.1
-25°	10.5	22.9	43.7	67.6	95.3	132.0	184.8	254.4	346.3	484.1	661.1
-27.5°	10.5	23.3	44.2	68.3	96.4	133.4	184.1	251.8	333.8	469.7	644.9
-30°	10.5	23.6	44.7	68.9	97.2	134.3	182.4	248.1	326.3	456.3	623.6
-32.5°	10.5	23.9	45.0	69.4	98.5	134.8	180.0	244.9	321.9	439.4	596.9
-35°	10.5	24.2	45.3	69.6	99.5	134.7	179.0	241.2	315.8	418.9	564.8
-37.5°	10.5	24.4	45.4	69.7	100.2	134.8	178.5	236.3	307.9	394.9	534.2
-40°	10.5	24.5	45.5	69.6	100.7	135.3	177.4	230.1	298.1	379.6	504.2
-42.5°	10.5	24.7	45.5	69.5	101.0	135.6	175.5	222.6	288.6	366.9	470.6
-45°	10.5	24.8	45.4	69.7	101.2	135.4	172.8	216.2	278.5	351.8	436.6
-47.5°	10.5	24.8	45.2	69.6	101.1	134.9	169.6	212.4	266.8	334.5	416.7
-50°	10.5	24.8	44.9	69.6	100.7	134.0	167.9	207.9	253.4	318.9	394.1
-52.5°	10.5	24.8	44.5	69.5	100.0	132.8	166.1	202.7	244.6	301.5	368.0
-55°	10.5	24.7	44.1	69.2	99.0	131.2	163.9	197.3	237.3	282.2	343.0
-57.5°	10.5	24.6	43.5	68.7	97.7	129.2	161.2	194.1	229.0	269.9	316.2
-60°	10.5	24.4	42.9	68.1	96.1	126.8	158.2	190.1	220.7	259.0	292.3
-62.5°	10.5	24.2	42.3	67.2	94.8	124.1	154.7	185.4	214.8	246.5	277.2
-65°	10.5	24.0	41.5	66.2	93.3	121.1	150.7	180.1	208.3	236.3	261.4
-67.5°	10.5	23.7	40.7	65.0	91.5	118.0	146.3	174.1	201.1	226.7	248.9
-70°	10.5	23.4	39.7	63.6	89.4	114.8	141.5	167.8	193.6	216.7	237.6
-72.5°	10.5	23.1	38.7	62.1	87.2	111.3	136.6	161.1	185.6	206.6	225.9
-75°	10.5	22.7	37.5	60.5	84.7	107.5	131.4	154.2	177.1	196.1	213.8
-77.5°	10.5	22.3	36.3	58.8	82.1	103.4	125.8	146.9	168.3	185.3	201.4
-80°	10.5	21.9	35.0	56.9	79.4	99.6	119.9	139.4	159.2	174.3	188.9
-82.5°	10.5	21.4	33.7	54.8	76.4	95.9	115.3	132.3	149.7	163.1	176.3
-85°	10.5	20.9	32.3	52.7	73.4	92.0	110.6	126.5	142.4	153.6	164.6
-87.5°	10.5	20.4	30.8	50.4	70.1	87.9	105.8	120.4	135.1	145.1	155.0
-90°	10.5	9.4	8.2	8.2	8.2	8.2	8.2	7.6	7.0	7.0	7.0



REPORT NUMBER: P735983 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-70-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	151.7	158.1	164.0	169.8	176.9	183.9	190.9	197.9	205.5	213.1	220.8
87.5°	7.0	6.5	6.5	6.5	6.0	5.5	5.1	4.7	4.7	4.7	4.6
85°	7.5	7.0	7.0	7.0	6.6	6.2	5.7	5.2	5.3	5.3	5.1
82.5°	8.1	7.6	7.4	7.0	6.9	6.9	6.5	6.1	6.0	5.9	5.6
80°	8.7	8.3	7.8	7.4	7.3	7.1	6.9	6.8	6.5	6.1	6.0
77.5°	8.9	8.3	8.1	8.0	7.8	7.2	7.0	7.0	6.9	6.8	6.6
75°	9.0	8.4	8.4	8.3	7.8	7.2	7.0	7.3	7.3	7.1	6.9
72.5°	9.4	9.1	8.8	8.5	8.2	7.9	7.8	8.1	8.8	9.3	9.9
70°	10.5	10.0	9.7	9.4	9.0	9.0	9.9	11.9	13.8	14.6	16.6
67.5°	11.6	11.2	10.9	10.6	10.7	11.6	13.0	17.3	21.0	23.6	26.5
65°	12.8	12.6	12.6	12.7	12.9	16.5	20.3	24.6	31.2	34.9	35.0
62.5°	14.3	16.1	15.3	16.3	19.7	23.5	29.4	37.1	45.4	48.8	46.6
60°	20.3	21.2	21.6	24.2	27.5	31.6	39.7	49.1	58.7	64.5	55.9
57.5°	27.9	29.1	31.3	32.8	36.5	38.9	48.6	59.9	66.1	69.9	60.0
55°	37.4	39.2	42.5	43.2	46.3	47.4	55.4	63.2	68.4	69.6	59.0
52.5°	49.6	51.6	56.3	57.1	57.2	58.3	59.3	67.9	72.1	70.9	61.2
50°	62.7	69.9	72.4	75.1	71.6	73.1	69.2	79.1	87.6	85.3	88.2
47.5°	82.0	91.1	94.7	99.6	97.1	105.1	102.2	121.1	127.7	165.6	174.0
45°	105.3	121.4	126.2	137.4	148.8	158.1	188.6	191.1	270.9	304.2	367.0
42.5°	133.3	158.4	178.8	183.0	237.4	266.2	308.7	378.4	448.4	512.6	555.3
40°	174.7	200.7	244.5	295.6	353.3	415.6	472.1	553.1	620.9	671.3	701.6
37.5°	221.9	271.5	331.1	423.2	501.2	564.7	628.9	698.9	762.8	807.1	864.8
35°	273.7	345.9	456.5	552.4	636.1	695.9	758.6	832.8	893.1	964.6	1035.8
32.5°	336.6	421.9	560.6	664.1	732.2	802.9	875.3	953.4	1039.8	1127.8	1219.1
30°	398.8	507.5	643.1	750.6	816.5	899.0	986.9	1078.4	1191.8	1302.7	1426.0
27.5°	447.7	581.0	709.9	821.1	897.8	995.5	1102.8	1222.2	1356.8	1492.6	1656.5
25°	491.4	635.6	777.3	895.1	992.6	1100.8	1226.9	1370.3	1530.5	1721.4	2236.7
22.5°	534.0	688.9	851.7	974.5	1084.1	1206.3	1358.4	1525.7	1714.3	1968.0	2879.2
20°	577.8	749.2	923.0	1040.5	1167.5	1304.6	1482.8	1676.9	1910.6	2510.0	3854.1
17.5°	622.8	811.4	983.7	1098.4	1232.2	1399.4	1606.5	1825.5	2110.4	3017.5	5075.1
15°	666.6	870.0	1032.3	1149.6	1297.1	1491.7	1723.1	1991.3	2464.1	3725.8	6298.3
12.5°	708.6	922.7	1068.4	1193.6	1361.3	1578.7	1831.2	2132.3	2879.6	4681.7	7632.7
10°	748.0	969.3	1099.8	1235.7	1423.9	1660.5	1928.0	2256.3	3242.5	5445.6	8689.1
7.5°	790.7	1009.3	1128.2	1275.6	1481.7	1735.2	2007.8	2351.7	3512.9	6031.4	9473.7
5°	829.5	1041.8	1161.1	1322.4	1539.0	1802.7	2076.2	2431.7	3697.4	6402.6	10018.3
2.5°	863.4	1067.7	1191.5	1366.8	1592.9	1861.9	2138.0	2511.8	3862.0	6716.4	10707.4
0°	892.3	1087.9	1219.0	1406.4	1639.4	1911.1	2188.7	2576.3	3972.1	6927.8	11506.5
-2.5°	910.0	1118.1	1264.7	1447.9	1677.8	1946.0	2234.4	2645.2	4083.6	7384.7	11810.9
-5°	922.6	1142.5	1305.7	1484.3	1708.9	1971.6	2267.9	2693.9	4131.6	7510.3	11722.3
-7.5°	930.0	1160.2	1340.9	1516.2	1736.7	2001.2	2320.8	2759.2	4153.3	7200.6	11219.9
-10°	933.9	1175.0	1363.9	1542.4	1762.5	2028.4	2361.9	2801.3	4064.1	6782.7	10642.0
-12.5°	944.0	1187.7	1382.1	1561.9	1779.7	2047.9	2394.0	2833.0	3860.9	6208.5	9847.6
-15°	946.6	1194.2	1397.5	1575.3	1797.5	2076.7	2418.2	2838.4	3567.4	5466.4	8833.4
-17.5°	941.3	1194.6	1408.1	1585.8	1806.5	2087.7	2426.0	2822.8	3348.2	4927.3	7813.0
-20°	927.6	1180.6	1411.4	1586.8	1803.1	2092.2	2429.8	2816.1	3294.6	4376.0	6575.5



REPORT NUMBER: P735983 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-70-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	905.3	1158.5	1400.0	1585.1	1814.9	2094.1	2418.6	2774.5	3178.6	3711.0	5343.6
-25°	881.5	1127.2	1370.3	1590.7	1817.1	2084.3	2371.3	2698.1	3071.3	3487.6	4464.6
-27.5°	855.7	1090.6	1339.9	1583.7	1806.0	2047.8	2314.3	2620.6	2927.9	3264.2	3680.3
-30°	824.5	1050.8	1299.1	1558.0	1779.8	2005.7	2251.4	2499.0	2774.5	3077.2	3429.7
-32.5°	787.1	1004.0	1248.5	1504.3	1745.1	1956.7	2162.3	2384.6	2630.5	2897.4	3188.9
-35°	746.5	956.6	1189.2	1439.0	1702.7	1897.1	2075.7	2268.0	2485.8	2729.7	3000.5
-37.5°	705.3	902.0	1119.6	1363.1	1619.7	1823.2	1984.1	2163.5	2355.2	2564.1	2815.9
-40°	658.6	839.0	1047.0	1277.2	1504.7	1724.6	1901.4	2064.1	2232.6	2423.7	2629.3
-42.5°	608.3	777.7	967.6	1176.2	1382.8	1592.4	1813.9	1973.8	2124.5	2286.7	2467.0
-45°	566.3	710.1	881.7	1067.3	1253.5	1456.6	1670.2	1884.0	2021.6	2162.0	2315.6
-47.5°	517.5	641.4	798.4	953.0	1124.8	1316.3	1518.7	1716.9	1912.3	2048.9	2178.2
-50°	471.1	583.2	703.2	845.4	998.5	1175.3	1360.7	1541.9	1725.1	1910.2	2057.6
-52.5°	439.1	521.0	625.1	737.4	879.0	1035.2	1197.8	1359.2	1531.3	1707.9	1877.8
-55°	404.6	474.7	548.9	644.4	760.9	900.1	1035.3	1180.0	1327.8	1490.6	1656.2
-57.5°	371.7	429.8	488.0	560.6	658.7	765.0	883.5	1002.4	1136.3	1272.7	1414.4
-60°	339.2	386.8	436.3	494.1	561.7	651.4	737.2	840.7	952.0	1064.1	1190.1
-62.5°	308.1	346.9	388.0	436.9	493.4	546.3	617.3	697.5	777.7	877.0	979.2
-65°	289.7	311.4	343.7	386.1	430.1	476.9	522.9	572.1	641.9	716.0	788.5
-67.5°	270.3	290.2	310.4	336.6	375.1	411.6	448.6	491.8	536.4	584.4	637.2
-70°	255.7	269.5	287.5	308.1	328.2	350.3	383.3	417.6	451.9	489.2	530.7
-72.5°	241.9	254.8	268.3	282.7	300.4	317.2	334.6	353.1	380.1	413.0	443.7
-75°	227.9	240.0	252.2	264.9	278.1	290.9	304.5	321.2	339.8	359.9	378.8
-77.5°	213.8	224.9	236.1	247.0	259.0	271.4	283.2	295.1	309.7	325.3	340.1
-80°	199.8	209.8	220.1	230.3	240.8	251.6	262.0	272.0	284.6	297.9	311.1
-82.5°	186.2	195.6	204.4	213.4	222.5	231.4	240.8	250.2	261.7	273.5	284.6
-85°	173.0	181.2	188.7	196.2	204.7	213.0	221.0	228.9	239.5	250.0	259.7
-87.5°	162.4	169.7	176.1	182.5	189.9	197.3	204.2	211.1	220.1	229.2	237.4
-90°	6.5	5.9	5.9	5.9	5.3	4.7	4.7	4.7	4.7	4.7	4.1



REPORT NUMBER: P735983 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-70-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	228.4	233.7	238.9	242.4	245.9	251.2	256.5	264.1	271.7	278.2	284.6
87.5°	4.5	4.0	3.5	3.4	3.4	3.4	3.4	2.9	2.3	2.3	2.3
85°	4.7	4.5	4.4	4.4	4.5	4.0	3.5	3.4	3.4	3.4	3.5
82.5°	5.3	5.0	4.7	4.7	4.7	4.6	4.5	4.0	3.5	3.5	3.5
80°	5.9	5.6	5.3	5.1	4.8	4.7	4.7	4.2	3.6	3.5	3.5
77.5°	6.1	6.0	5.9	5.4	4.8	4.7	4.7	4.2	3.6	3.5	3.5
75°	6.9	6.8	6.8	6.6	6.4	6.6	6.9	6.7	6.4	6.1	5.7
72.5°	10.5	10.6	10.4	11.0	11.6	12.1	12.4	12.7	13.2	14.1	15.2
70°	18.7	20.1	20.2	20.1	20.1	19.5	18.8	18.6	18.7	19.1	19.4
67.5°	28.2	29.3	29.8	30.1	27.4	25.7	25.0	25.1	26.2	28.3	31.3
65°	35.9	33.7	31.8	29.7	29.9	29.8	28.4	27.8	28.7	30.0	31.4
62.5°	42.7	33.9	28.3	25.5	26.0	26.9	24.3	22.3	21.7	21.3	21.4
60°	45.9	31.9	22.5	19.1	17.1	16.1	14.3	12.3	11.6	11.4	11.7
57.5°	46.3	30.4	17.9	14.2	10.8	8.3	7.0	6.2	6.2	5.9	5.8
55°	44.8	30.7	17.4	15.9	14.6	13.3	11.6	11.3	10.7	10.6	11.3
52.5°	46.5	43.1	35.3	34.2	41.7	41.9	36.1	44.4	50.1	54.5	56.5
50°	91.9	88.3	111.6	111.5	135.0	155.2	149.4	161.1	181.4	199.2	210.1
47.5°	214.7	231.5	266.5	297.8	333.2	377.8	397.6	411.6	429.4	453.3	469.3
45°	399.9	441.8	487.1	537.8	596.9	649.2	679.6	708.9	728.4	749.6	774.7
42.5°	593.8	643.8	711.0	771.5	835.5	896.6	944.8	987.2	1070.0	1188.0	1281.9
40°	759.9	816.6	894.6	975.4	1050.8	1128.1	1340.8	1522.0	1747.8	2085.0	2383.7
37.5°	924.7	990.3	1077.4	1176.3	1403.8	1634.1	2098.6	2600.3	3035.0	3522.4	4014.6
35°	1104.3	1190.5	1306.9	1640.0	2061.1	2675.0	3340.9	4086.1	4718.5	5399.1	6396.3
32.5°	1316.4	1467.0	1843.4	2448.8	3203.8	4075.8	4902.0	5838.6	6628.5	7879.0	9401.9
30°	1589.8	2062.0	2784.6	3620.5	4639.4	5743.1	6778.9	8296.0	10068.3	11637.3	12932.9
27.5°	2249.3	3161.5	4170.3	5229.6	6505.5	7843.0	10014.7	11978.2	13885.2	15579.3	17547.4
25°	3234.0	4697.4	6421.6	7841.7	9575.3	11992.6	14448.4	16610.8	19509.0	22058.1	24917.6
22.5°	4626.8	6710.6	8931.4	11004.8	13667.2	16694.7	19998.7	23983.1	28009.3	32481.4	36460.0
20°	5986.3	8622.7	11435.1	14420.0	17829.6	21614.8	27015.9	33482.1	39686.1	46732.0	52673.2
17.5°	7796.7	10983.7	14309.8	18104.0	22487.8	28311.3	36283.2	45124.9	54718.6	65239.8	74969.2
15°	9637.6	13071.0	16935.9	21792.0	27992.6	35907.3	46077.6	58113.9	72144.0	87610.6	106414.0
12.5°	11146.4	14900.8	19420.1	25539.9	33649.6	44234.2	56556.4	71045.3	90279.9	113607.9	135453.9
10°	12435.4	16937.2	22648.0	29890.8	39429.8	51378.8	65376.8	83314.9	109225.1	136249.6	160223.5
7.5°	13763.3	19088.9	25136.9	32989.7	43835.7	57399.0	74635.9	98060.7	126568.8	154286.9	176272.1
5°	15015.7	20556.2	26707.4	35097.3	46826.3	61393.2	80950.5	109482.1	140504.9	167653.1	188308.0
2.5°	15996.7	21294.2	27534.4	36666.9	48443.0	63564.1	84909.0	116544.7	149087.7	175843.5	197023.6
0°	16505.6	21694.5	27993.4	37648.5	49783.9	65556.5	87178.3	119661.4	152579.0	178634.4	200222.3
-2.5°	16393.0	21501.3	27709.3	36891.0	49477.5	65916.9	89065.3	121285.7	153180.3	179586.3	199931.6
-5°	16156.1	21196.9	27319.2	35960.1	48380.1	65010.7	87016.3	116638.9	147442.0	174528.5	194307.5
-7.5°	15714.7	20687.4	26541.3	34598.5	46561.4	62310.0	82168.0	107908.8	137459.2	164597.9	183745.6
-10°	15065.2	19900.2	25424.9	32752.7	43496.4	57961.2	74844.0	94945.8	122588.9	147962.1	169237.6
-12.5°	14142.2	18786.6	23876.1	30173.0	39794.5	52541.9	67096.4	83798.6	103555.5	128026.1	147968.7
-15°	12967.6	17335.6	22064.8	28006.1	36051.3	46495.9	58767.3	71724.2	86867.2	103758.8	123197.4
-17.5°	11526.1	15629.1	20033.1	25155.2	31661.6	40424.7	50131.8	60242.0	71172.4	83603.0	95023.4
-20°	9807.2	13560.1	17710.4	22474.6	28049.7	34379.4	41435.8	49609.1	58081.6	66953.6	74803.3



REPORT NUMBER: P735983 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-70-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	8061.7	11485.3	15440.1	19606.0	24451.6	29283.1	34022.6	40099.8	46642.6	53065.5	58908.3
-25°	6307.8	9330.2	13007.3	16914.6	20803.9	24750.4	28598.5	32372.1	37080.4	41214.6	45503.0
-27.5°	5010.2	7271.2	10358.8	13768.6	17157.6	20450.6	23777.7	26929.9	29899.0	32395.8	35287.0
-30°	3940.2	5466.3	7851.6	10534.8	13500.2	16401.6	19268.6	21931.4	24269.6	26325.3	28333.0
-32.5°	3562.5	4185.6	5603.1	7642.1	9981.6	12527.0	14923.5	17210.6	19138.3	21048.7	22847.6
-35°	3295.5	3638.6	4102.0	5375.7	6899.2	8924.9	10803.5	12701.6	14320.5	16228.5	17703.7
-37.5°	3076.6	3340.8	3633.8	3934.2	4860.7	5875.0	7227.5	8650.3	9901.0	11501.5	12804.0
-40°	2864.7	3098.6	3327.6	3556.0	3802.4	4028.8	4833.8	5567.5	6415.9	7510.8	8447.6
-42.5°	2659.8	2865.9	3064.2	3249.8	3422.0	3570.6	3732.6	3887.8	4346.0	4904.0	5332.6
-45°	2476.0	2651.1	2817.1	2974.1	3105.3	3224.2	3349.0	3479.0	3649.3	3804.1	3931.9
-47.5°	2319.7	2458.1	2594.1	2722.0	2822.7	2924.3	3023.6	3135.8	3268.4	3398.4	3507.1
-50°	2178.2	2298.0	2401.3	2491.9	2575.6	2661.5	2740.7	2840.3	2947.0	3054.5	3144.5
-52.5°	2042.8	2149.4	2235.6	2304.6	2368.4	2438.5	2506.6	2586.0	2672.7	2763.1	2834.6
-55°	1815.2	1950.6	2075.9	2140.7	2190.7	2248.5	2306.1	2370.5	2443.6	2519.6	2576.3
-57.5°	1563.6	1697.3	1815.4	1899.4	1982.4	2067.1	2130.6	2181.0	2247.1	2311.9	2360.9
-60°	1311.0	1423.1	1527.3	1612.3	1698.9	1783.7	1855.1	1920.7	2002.6	2077.0	2137.5
-62.5°	1075.9	1173.9	1254.4	1323.1	1396.9	1470.7	1538.7	1603.4	1677.8	1744.6	1801.3
-65°	862.1	944.4	1003.9	1057.9	1116.6	1177.7	1231.5	1285.2	1345.0	1398.4	1444.9
-67.5°	697.1	751.7	788.7	823.1	869.7	917.2	959.4	1002.1	1047.8	1088.3	1123.5
-70°	570.7	604.7	627.6	654.0	687.1	717.5	745.2	776.4	810.1	841.1	869.1
-72.5°	473.1	496.5	513.5	534.6	555.7	575.0	592.5	614.9	639.4	663.4	686.1
-75°	396.3	411.5	427.8	443.0	457.4	471.5	484.4	502.4	521.3	539.2	556.5
-77.5°	355.6	366.9	376.1	384.5	392.3	401.4	410.4	425.6	442.1	456.0	469.0
-80°	324.0	332.8	340.5	346.9	352.8	360.2	367.7	380.1	393.0	404.7	416.1
-82.5°	295.7	303.2	310.3	316.2	321.9	328.2	334.5	345.4	356.6	366.5	376.2
-85°	269.2	275.8	282.1	287.3	292.5	298.4	304.2	313.7	323.2	332.0	340.8
-87.5°	245.5	251.3	257.1	261.1	265.0	270.6	276.2	284.6	293.1	301.0	308.8
-90°	3.5	3.5	3.5	2.9	2.3	2.3	2.3	2.3	2.3	1.8	1.2



REPORT NUMBER: P735983 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-70-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	288.1	291.6	292.2	292.8	292.2	291.6	288.1	284.6	278.2	271.7	264.1
87.5°	1.7	1.2	1.7	2.3	1.7	1.2	1.7	2.3	2.3	2.3	2.9
85°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.4	3.4
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.0
80°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.6	4.2
77.5°	3.0	2.4	2.9	3.5	2.9	2.4	3.0	3.5	3.5	3.6	4.2
75°	5.2	4.7	4.1	3.5	4.1	4.7	5.2	5.7	6.1	6.4	6.7
72.5°	15.7	16.1	16.9	17.6	16.9	16.1	15.7	15.2	14.1	13.2	12.7
70°	18.8	17.7	17.6	17.6	17.6	17.7	18.8	19.4	19.1	18.7	18.6
67.5°	33.6	35.4	36.1	36.3	36.1	35.4	33.6	31.3	28.3	26.2	25.1
65°	32.6	33.8	34.0	34.0	34.0	33.8	32.6	31.4	30.0	28.7	27.8
62.5°	21.8	22.4	22.9	23.4	22.9	22.4	21.8	21.4	21.3	21.7	22.3
60°	12.2	13.0	13.5	14.1	13.5	13.0	12.2	11.7	11.4	11.6	12.3
57.5°	5.7	6.1	6.4	7.0	6.4	6.1	5.7	5.8	5.9	6.2	6.2
55°	11.8	12.5	12.8	12.9	12.8	12.5	11.8	11.3	10.6	10.7	11.3
52.5°	55.5	52.9	50.8	49.2	50.8	52.9	55.5	56.5	54.5	50.1	44.4
50°	214.6	209.4	203.5	197.9	203.5	209.4	214.6	210.1	199.2	181.4	161.1
47.5°	478.7	474.6	465.8	454.4	465.8	474.6	478.7	469.3	453.3	429.4	411.6
45°	809.2	832.6	843.1	837.3	843.1	832.6	809.2	774.7	749.6	728.4	708.9
42.5°	1313.8	1334.5	1336.3	1305.7	1336.3	1334.5	1313.8	1281.9	1188.0	1070.0	987.2
40°	2599.9	2780.0	2841.8	2655.9	2841.8	2780.0	2599.9	2383.7	2085.0	1747.8	1522.0
37.5°	4607.9	5315.7	5906.2	5928.9	5906.2	5315.7	4607.9	4014.6	3522.4	3035.0	2600.3
35°	7467.8	8196.1	8548.2	8533.3	8548.2	8196.1	7467.8	6396.3	5399.1	4718.5	4086.1
32.5°	10496.2	11048.0	11400.6	11315.6	11400.6	11048.0	10496.2	9401.9	7879.0	6628.5	5838.6
30°	13858.2	14370.1	14781.1	14774.9	14781.1	14370.1	13858.2	12932.9	11637.3	10068.3	8296.0
27.5°	19149.5	20204.3	21042.7	20900.5	21042.7	20204.3	19149.5	17547.4	15579.3	13885.2	11978.2
25°	27329.6	29259.0	30623.2	30342.5	30623.2	29259.0	27329.6	24917.6	22058.1	19509.0	16610.8
22.5°	39413.8	41889.0	42923.9	42103.1	42923.9	41889.0	39413.8	36460.0	32481.4	28009.3	23983.1
20°	58333.2	62922.2	65775.2	64073.9	65775.2	62922.2	58333.2	52673.2	46732.0	39686.1	33482.1
17.5°	87561.8	97517.2	105383.3	105166.5	105383.3	97517.2	87561.8	74969.2	65239.8	54718.6	45124.9
15°	122785.0	134116.3	142841.3	143850.2	142841.3	134116.3	122785.0	106414.0	87610.6	72144.0	58113.9
12.5°	154323.8	165847.7	174385.9	176842.7	174385.9	165847.7	154323.8	135453.9	113607.9	90279.9	71045.3
10°	176801.3	188301.4	196565.6	199479.8	196565.6	188301.4	176801.3	160223.5	136249.6	109225.1	83314.9
7.5°	193290.6	205767.2	211962.0	215128.3	211962.0	205767.2	193290.6	176272.1	154286.9	126568.8	98060.7
5°	205155.6	216751.2	222744.1	226580.9	222744.1	216751.2	205155.6	188308.0	167653.1	140504.9	109482.1
2.5°	212635.2	223582.3	230779.2	234220.8	230779.2	223582.3	212635.2	197023.6	175843.5	149087.7	116544.7
0°	215049.3	225558.6	233625.3	236710.3	233625.3	225558.6	215049.3	200222.3	178634.4	152579.0	119661.4
-2.5°	213926.4	224221.2	230654.9	231902.1	230654.9	224221.2	213926.4	199931.6	179586.3	153180.3	121285.7
-5°	208082.9	217571.3	223512.1	224488.3	223512.1	217571.3	208082.9	194307.5	174528.5	147442.0	116638.9
-7.5°	198008.8	207473.8	212384.4	213830.2	212384.4	207473.8	198008.8	183745.6	164597.9	137459.2	107908.8
-10°	183402.3	192546.6	197794.8	199039.5	197794.8	192546.6	183402.3	169237.6	147962.1	122588.9	94945.8
-12.5°	163471.4	173226.6	179100.4	180394.5	179100.4	173226.6	163471.4	147968.7	128026.1	103555.5	83798.6
-15°	137627.0	147661.4	155159.9	156973.9	155159.9	147661.4	137627.0	123197.4	103758.8	86867.2	71724.2
-17.5°	107836.0	117877.5	124615.5	125901.8	124615.5	117877.5	107836.0	95023.4	83603.0	71172.4	60242.0
-20°	82178.2	88636.2	92439.1	93101.4	92439.1	88636.2	82178.2	74803.3	66953.6	58081.6	49609.1



REPORT NUMBER: P735983 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-70-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	63683.1	68023.6	70338.9	70665.7	70338.9	68023.6	63683.1	58908.3	53065.5	46642.6	40099.8
-25°	49348.3	52502.0	54226.5	54513.7	54226.5	52502.0	49348.3	45503.0	41214.6	37080.4	32372.1
-27.5°	37891.0	39850.2	41454.7	41120.6	41454.7	39850.2	37891.0	35287.0	32395.8	29899.0	26929.9
-30°	29982.6	31239.2	32187.0	31938.6	32187.0	31239.2	29982.6	28333.0	26325.3	24269.6	21931.4
-32.5°	24266.9	25251.3	25917.6	26095.2	25917.6	25251.3	24266.9	22847.6	21048.7	19138.3	17210.6
-35°	18861.4	19665.8	20127.6	20306.8	20127.6	19665.8	18861.4	17703.7	16228.5	14320.5	12701.6
-37.5°	13770.7	14476.3	14916.9	15070.0	14916.9	14476.3	13770.7	12804.0	11501.5	9901.0	8650.3
-40°	9164.8	9708.5	10069.3	10209.0	10069.3	9708.5	9164.8	8447.6	7510.8	6415.9	5567.5
-42.5°	5666.5	5921.0	6082.2	6132.7	6082.2	5921.0	5666.5	5332.6	4904.0	4346.0	3887.8
-45°	4030.6	4101.0	4141.3	4149.0	4141.3	4101.0	4030.6	3931.9	3804.1	3649.3	3479.0
-47.5°	3592.0	3647.4	3675.8	3677.0	3675.8	3647.4	3592.0	3507.1	3398.4	3268.4	3135.8
-50°	3218.7	3269.9	3295.9	3297.6	3295.9	3269.9	3218.7	3144.5	3054.5	2947.0	2840.3
-52.5°	2893.1	2934.0	2953.0	2953.3	2953.0	2934.0	2893.1	2834.6	2763.1	2672.7	2586.0
-55°	2622.8	2654.6	2666.4	2664.1	2666.4	2654.6	2622.8	2576.3	2519.6	2443.6	2370.5
-57.5°	2401.6	2432.8	2442.6	2439.3	2442.6	2432.8	2401.6	2360.9	2311.9	2247.1	2181.0
-60°	2184.7	2218.1	2230.6	2229.6	2230.6	2218.1	2184.7	2137.5	2077.0	2002.6	1920.7
-62.5°	1841.8	1867.4	1881.2	1885.4	1881.2	1867.4	1841.8	1801.3	1744.6	1677.8	1603.4
-65°	1476.9	1497.3	1508.3	1511.8	1508.3	1497.3	1476.9	1444.9	1398.4	1345.0	1285.2
-67.5°	1146.3	1161.0	1168.1	1169.9	1168.1	1161.0	1146.3	1123.5	1088.3	1047.8	1002.1
-70°	886.6	898.6	904.2	906.4	904.2	898.6	886.6	869.1	841.1	810.1	776.4
-72.5°	699.3	708.9	712.8	714.3	712.8	708.9	699.3	686.1	663.4	639.4	614.9
-75°	564.6	570.3	572.7	573.8	572.7	570.3	564.6	556.5	539.2	521.3	502.4
-77.5°	476.2	482.3	484.5	486.0	484.5	482.3	476.2	469.0	456.0	442.1	425.6
-80°	421.2	425.6	427.3	428.6	427.3	425.6	421.2	416.1	404.7	393.0	380.1
-82.5°	382.4	388.3	388.7	388.8	388.7	388.3	382.4	376.2	366.5	356.6	345.4
-85°	345.4	349.8	350.6	351.3	350.6	349.8	345.4	340.8	332.0	323.2	313.7
-87.5°	313.0	317.2	317.3	317.3	317.3	317.2	313.0	308.8	301.0	293.1	284.6
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	2.3	2.3



REPORT NUMBER: P735983 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-70-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	256.5	251.2	245.9	242.4	238.9	233.7	228.4	220.8	213.1	205.5	197.9
87.5°	3.4	3.4	3.4	3.4	3.5	4.0	4.5	4.6	4.7	4.7	4.7
85°	3.5	4.0	4.5	4.4	4.4	4.5	4.7	5.1	5.3	5.3	5.2
82.5°	4.5	4.6	4.7	4.7	4.7	5.0	5.3	5.6	5.9	6.0	6.1
80°	4.7	4.7	4.8	5.1	5.3	5.6	5.9	6.0	6.1	6.5	6.8
77.5°	4.7	4.7	4.8	5.4	5.9	6.0	6.1	6.6	6.8	6.9	7.0
75°	6.9	6.6	6.4	6.6	6.8	6.8	6.9	6.9	7.1	7.3	7.3
72.5°	12.4	12.1	11.6	11.0	10.4	10.6	10.5	9.9	9.3	8.8	8.1
70°	18.8	19.5	20.1	20.1	20.2	20.1	18.7	16.6	14.6	13.8	11.9
67.5°	25.0	25.7	27.4	30.1	29.8	29.3	28.2	26.5	23.6	21.0	17.3
65°	28.4	29.8	29.9	29.7	31.8	33.7	35.9	35.0	34.9	31.2	24.6
62.5°	24.3	26.9	26.0	25.5	28.3	33.9	42.7	46.6	48.8	45.4	37.1
60°	14.3	16.1	17.1	19.1	22.5	31.9	45.9	55.9	64.5	58.7	49.1
57.5°	7.0	8.3	10.8	14.2	17.9	30.4	46.3	60.0	69.9	66.1	59.9
55°	11.6	13.3	14.6	15.9	17.4	30.7	44.8	59.0	69.6	68.4	63.2
52.5°	36.1	41.9	41.7	34.2	35.3	43.1	46.5	61.2	70.9	72.1	67.9
50°	149.4	155.2	135.0	111.5	111.6	88.3	91.9	88.2	85.3	87.6	79.1
47.5°	397.6	377.8	333.2	297.8	266.5	231.5	214.7	174.0	165.6	127.7	121.1
45°	679.6	649.2	596.9	537.8	487.1	441.8	399.9	367.0	304.2	270.9	191.1
42.5°	944.8	896.6	835.5	771.5	711.0	643.8	593.8	555.3	512.6	448.4	378.4
40°	1340.8	1128.1	1050.8	975.4	894.6	816.6	759.9	701.6	671.3	620.9	553.1
37.5°	2098.6	1634.1	1403.8	1176.3	1077.4	990.3	924.7	864.8	807.1	762.8	698.9
35°	3340.9	2675.0	2061.1	1640.0	1306.9	1190.5	1104.3	1035.8	964.6	893.1	832.8
32.5°	4902.0	4075.8	3203.8	2448.8	1843.4	1467.0	1316.4	1219.1	1127.8	1039.8	953.4
30°	6778.9	5743.1	4639.4	3620.5	2784.6	2062.0	1589.8	1426.0	1302.7	1191.8	1078.4
27.5°	10014.7	7843.0	6505.5	5229.6	4170.3	3161.5	2249.3	1656.5	1492.6	1356.8	1222.2
25°	14448.4	11992.6	9575.3	7841.7	6421.6	4697.4	3234.0	2236.7	1721.4	1530.5	1370.3
22.5°	19998.7	16694.7	13667.2	11004.8	8931.4	6710.6	4626.8	2879.2	1968.0	1714.3	1525.7
20°	27015.9	21614.8	17829.6	14420.0	11435.1	8622.7	5986.3	3854.1	2510.0	1910.6	1676.9
17.5°	36283.2	28311.3	22487.8	18104.0	14309.8	10983.7	7796.7	5075.1	3017.5	2110.4	1825.5
15°	46077.6	35907.3	27992.6	21792.0	16935.9	13071.0	9637.6	6298.3	3725.8	2464.1	1991.3
12.5°	56556.4	44234.2	33649.6	25539.9	19420.1	14900.8	11146.4	7632.7	4681.7	2879.6	2132.3
10°	65376.8	51378.8	39429.8	29890.8	22648.0	16937.2	12435.4	8689.1	5445.6	3242.5	2256.3
7.5°	74635.9	57399.0	43835.7	32989.7	25136.9	19088.9	13763.3	9473.7	6031.4	3512.9	2351.7
5°	80950.5	61393.2	46826.3	35097.3	26707.4	20556.2	15015.7	10018.3	6402.6	3697.4	2431.7
2.5°	84909.0	63564.1	48443.0	36666.9	27534.4	21294.2	15996.7	10707.4	6716.4	3862.0	2511.8
0°	87178.3	65556.5	49783.9	37648.5	27993.4	21694.5	16505.6	11506.5	6927.8	3972.1	2576.3
-2.5°	89065.3	65916.9	49477.5	36891.0	27709.3	21501.3	16393.0	11810.9	7384.7	4083.6	2645.2
-5°	87016.3	65010.7	48380.1	35960.1	27319.2	21196.9	16156.1	11722.3	7510.3	4131.6	2693.9
-7.5°	82168.0	62310.0	46561.4	34598.5	26541.3	20687.4	15714.7	11219.9	7200.6	4153.3	2759.2
-10°	74844.0	57961.2	43496.4	32752.7	25424.9	19900.2	15065.2	10642.0	6782.7	4064.1	2801.3
-12.5°	67096.4	52541.9	39794.5	30173.0	23876.1	18786.6	14142.2	9847.6	6208.5	3860.9	2833.0
-15°	58767.3	46495.9	36051.3	28006.1	22064.8	17335.6	12967.6	8833.4	5466.4	3567.4	2838.4
-17.5°	50131.8	40424.7	31661.6	25155.2	20033.1	15629.1	11526.1	7813.0	4927.3	3348.2	2822.8
-20°	41435.8	34379.4	28049.7	22474.6	17710.4	13560.1	9807.2	6575.5	4376.0	3294.6	2816.1



REPORT NUMBER: P735983 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-70-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	34022.6	29283.1	24451.6	19606.0	15440.1	11485.3	8061.7	5343.6	3711.0	3178.6	2774.5
-25°	28598.5	24750.4	20803.9	16914.6	13007.3	9330.2	6307.8	4464.6	3487.6	3071.3	2698.1
-27.5°	23777.7	20450.6	17157.6	13768.6	10358.8	7271.2	5010.2	3680.3	3264.2	2927.9	2620.6
-30°	19268.6	16401.6	13500.2	10534.8	7851.6	5466.3	3940.2	3429.7	3077.2	2774.5	2499.0
-32.5°	14923.5	12527.0	9981.6	7642.1	5603.1	4185.6	3562.5	3188.9	2897.4	2630.5	2384.6
-35°	10803.5	8924.9	6899.2	5375.7	4102.0	3638.6	3295.5	3000.5	2729.7	2485.8	2268.0
-37.5°	7227.5	5875.0	4860.7	3934.2	3633.8	3340.8	3076.6	2815.9	2564.1	2355.2	2163.5
-40°	4833.8	4028.8	3802.4	3556.0	3327.6	3098.6	2864.7	2629.3	2423.7	2232.6	2064.1
-42.5°	3732.6	3570.6	3422.0	3249.8	3064.2	2865.9	2659.8	2467.0	2286.7	2124.5	1973.8
-45°	3349.0	3224.2	3105.3	2974.1	2817.1	2651.1	2476.0	2315.6	2162.0	2021.6	1884.0
-47.5°	3023.6	2924.3	2822.7	2722.0	2594.1	2458.1	2319.7	2178.2	2048.9	1912.3	1716.9
-50°	2740.7	2661.5	2575.6	2491.9	2401.3	2298.0	2178.2	2057.6	1910.2	1725.1	1541.9
-52.5°	2506.6	2438.5	2368.4	2304.6	2235.6	2149.4	2042.8	1877.8	1707.9	1531.3	1359.2
-55°	2306.1	2248.5	2190.7	2140.7	2075.9	1950.6	1815.2	1656.2	1490.6	1327.8	1180.0
-57.5°	2130.6	2067.1	1982.4	1899.4	1815.4	1697.3	1563.6	1414.4	1272.7	1136.3	1002.4
-60°	1855.1	1783.7	1698.9	1612.3	1527.3	1423.1	1311.0	1190.1	1064.1	952.0	840.7
-62.5°	1538.7	1470.7	1396.9	1323.1	1254.4	1173.9	1075.9	979.2	877.0	777.7	697.5
-65°	1231.5	1177.7	1116.6	1057.9	1003.9	944.4	862.1	788.5	716.0	641.9	572.1
-67.5°	959.4	917.2	869.7	823.1	788.7	751.7	697.1	637.2	584.4	536.4	491.8
-70°	745.2	717.5	687.1	654.0	627.6	604.7	570.7	530.7	489.2	451.9	417.6
-72.5°	592.5	575.0	555.7	534.6	513.5	496.5	473.1	443.7	413.0	380.1	353.1
-75°	484.4	471.5	457.4	443.0	427.8	411.5	396.3	378.8	359.9	339.8	321.2
-77.5°	410.4	401.4	392.3	384.5	376.1	366.9	355.6	340.1	325.3	309.7	295.1
-80°	367.7	360.2	352.8	346.9	340.5	332.8	324.0	311.1	297.9	284.6	272.0
-82.5°	334.5	328.2	321.9	316.2	310.3	303.2	295.7	284.6	273.5	261.7	250.2
-85°	304.2	298.4	292.5	287.3	282.1	275.8	269.2	259.7	250.0	239.5	228.9
-87.5°	276.2	270.6	265.0	261.1	257.1	251.3	245.5	237.4	229.2	220.1	211.1
-90°	2.3	2.3	2.3	2.9	3.5	3.5	3.5	4.1	4.7	4.7	4.7



REPORT NUMBER: P735983 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-70-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	190.9	183.9	176.9	169.8	164.0	158.1	151.7	145.2	136.4	127.6	114.2
87.5°	5.1	5.5	6.0	6.5	6.5	6.5	7.0	7.5	7.5	7.4	8.0
85°	5.7	6.2	6.6	7.0	7.0	7.0	7.5	8.0	7.9	7.8	8.3
82.5°	6.5	6.9	6.9	7.0	7.4	7.6	8.1	8.5	8.5	8.3	8.7
80°	6.9	7.1	7.3	7.4	7.8	8.3	8.7	9.1	9.2	9.1	9.3
77.5°	7.0	7.2	7.8	8.0	8.1	8.3	8.9	9.5	9.9	9.9	10.0
75°	7.0	7.2	7.8	8.3	8.4	8.4	9.0	9.7	10.3	10.7	10.7
72.5°	7.8	7.9	8.2	8.5	8.8	9.1	9.4	9.9	10.7	11.2	11.4
70°	9.9	9.0	9.0	9.4	9.7	10.0	10.5	10.8	11.1	11.8	12.1
67.5°	13.0	11.6	10.7	10.6	10.9	11.2	11.6	11.9	12.1	12.4	12.8
65°	20.3	16.5	12.9	12.7	12.6	12.6	12.8	13.3	13.2	13.8	13.5
62.5°	29.4	23.5	19.7	16.3	15.3	16.1	14.3	15.9	14.7	15.5	15.0
60°	39.7	31.6	27.5	24.2	21.6	21.2	20.3	18.9	18.5	17.3	17.1
57.5°	48.6	38.9	36.5	32.8	31.3	29.1	27.9	25.5	23.0	21.5	19.3
55°	55.4	47.4	46.3	43.2	42.5	39.2	37.4	34.3	29.0	26.7	21.9
52.5°	59.3	58.3	57.2	57.1	56.3	51.6	49.6	43.8	39.2	32.2	27.0
50°	69.2	73.1	71.6	75.1	72.4	69.9	62.7	56.7	50.1	39.5	32.7
47.5°	102.2	105.1	97.1	99.6	94.7	91.1	82.0	71.3	61.7	50.2	38.6
45°	188.6	158.1	148.8	137.4	126.2	121.4	105.3	87.0	76.1	61.6	44.7
42.5°	308.7	266.2	237.4	183.0	178.8	158.4	133.3	112.2	91.1	73.5	53.4
40°	472.1	415.6	353.3	295.6	244.5	200.7	174.7	141.3	106.9	86.5	64.1
37.5°	628.9	564.7	501.2	423.2	331.1	271.5	221.9	172.9	127.5	101.5	74.9
35°	758.6	695.9	636.1	552.4	456.5	345.9	273.7	211.1	156.7	117.2	85.9
32.5°	875.3	802.9	732.2	664.1	560.6	421.9	336.6	254.8	186.6	133.5	97.0
30°	986.9	899.0	816.5	750.6	643.1	507.5	398.8	296.4	217.2	150.2	108.3
27.5°	1102.8	995.5	897.8	821.1	709.9	581.0	447.7	335.9	248.1	168.6	120.6
25°	1226.9	1100.8	992.6	895.1	777.3	635.6	491.4	373.4	280.3	189.8	132.4
22.5°	1358.4	1206.3	1084.1	974.5	851.7	688.9	534.0	411.7	305.4	209.7	143.6
20°	1482.8	1304.6	1167.5	1040.5	923.0	749.2	577.8	442.8	328.7	228.1	154.2
17.5°	1606.5	1399.4	1232.2	1098.4	983.7	811.4	622.8	471.8	350.4	245.0	164.1
15°	1723.1	1491.7	1297.1	1149.6	1032.3	870.0	666.6	499.0	370.3	260.5	174.0
12.5°	1831.2	1578.7	1361.3	1193.6	1068.4	922.7	708.6	524.4	388.3	276.0	184.0
10°	1928.0	1660.5	1423.9	1235.7	1099.8	969.3	748.0	552.2	411.5	291.4	193.5
7.5°	2007.8	1735.2	1481.7	1275.6	1128.2	1009.3	790.7	588.0	434.4	305.3	202.2
5°	2076.2	1802.7	1539.0	1322.4	1161.1	1041.8	829.5	621.6	455.7	317.6	210.2
2.5°	2138.0	1861.9	1592.9	1366.8	1191.5	1067.7	863.4	652.6	475.0	328.3	217.4
0°	2188.7	1911.1	1639.4	1406.4	1219.0	1087.9	892.3	680.4	491.8	337.3	223.7
-2.5°	2234.4	1946.0	1677.8	1447.9	1264.7	1118.1	910.0	694.3	505.7	349.1	231.4
-5°	2267.9	1971.6	1708.9	1484.3	1305.7	1142.5	922.6	704.4	516.7	359.0	238.1
-7.5°	2320.8	2001.2	1736.7	1516.2	1340.9	1160.2	930.0	710.8	524.8	366.7	243.8
-10°	2361.9	2028.4	1762.5	1542.4	1363.9	1175.0	933.9	713.6	529.8	372.0	248.4
-12.5°	2394.0	2047.9	1779.7	1561.9	1382.1	1187.7	944.0	716.7	531.8	374.8	251.8
-15°	2418.2	2076.7	1797.5	1575.3	1397.5	1194.2	946.6	716.6	529.4	374.3	254.0
-17.5°	2426.0	2087.7	1806.5	1585.8	1408.1	1194.6	941.3	710.6	523.6	370.7	255.5
-20°	2429.8	2092.2	1803.1	1586.8	1411.4	1180.6	927.6	698.3	514.1	364.8	256.2



REPORT NUMBER: P735983 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-70-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2418.6	2094.1	1814.9	1585.1	1400.0	1158.5	905.3	680.1	501.0	356.6	255.9
-25°	2371.3	2084.3	1817.1	1590.7	1370.3	1127.2	881.5	661.1	484.1	346.3	254.4
-27.5°	2314.3	2047.8	1806.0	1583.7	1339.9	1090.6	855.7	644.9	469.7	333.8	251.8
-30°	2251.4	2005.7	1779.8	1558.0	1299.1	1050.8	824.5	623.6	456.3	326.3	248.1
-32.5°	2162.3	1956.7	1745.1	1504.3	1248.5	1004.0	787.1	596.9	439.4	321.9	244.9
-35°	2075.7	1897.1	1702.7	1439.0	1189.2	956.6	746.5	564.8	418.9	315.8	241.2
-37.5°	1984.1	1823.2	1619.7	1363.1	1119.6	902.0	705.3	534.2	394.9	307.9	236.3
-40°	1901.4	1724.6	1504.7	1277.2	1047.0	839.0	658.6	504.2	379.6	298.1	230.1
-42.5°	1813.9	1592.4	1382.8	1176.2	967.6	777.7	608.3	470.6	366.9	288.6	222.6
-45°	1670.2	1456.6	1253.5	1067.3	881.7	710.1	566.3	436.6	351.8	278.5	216.2
-47.5°	1518.7	1316.3	1124.8	953.0	798.4	641.4	517.5	416.7	334.5	266.8	212.4
-50°	1360.7	1175.3	998.5	845.4	703.2	583.2	471.1	394.1	318.9	253.4	207.9
-52.5°	1197.8	1035.2	879.0	737.4	625.1	521.0	439.1	368.0	301.5	244.6	202.7
-55°	1035.3	900.1	760.9	644.4	548.9	474.7	404.6	343.0	282.2	237.3	197.3
-57.5°	883.5	765.0	658.7	560.6	488.0	429.8	371.7	316.2	269.9	229.0	194.1
-60°	737.2	651.4	561.7	494.1	436.3	386.8	339.2	292.3	259.0	220.7	190.1
-62.5°	617.3	546.3	493.4	436.9	388.0	346.9	308.1	277.2	246.5	214.8	185.4
-65°	522.9	476.9	430.1	386.1	343.7	311.4	289.7	261.4	236.3	208.3	180.1
-67.5°	448.6	411.6	375.1	336.6	310.4	290.2	270.3	248.9	226.7	201.1	174.1
-70°	383.3	350.3	328.2	308.1	287.5	269.5	255.7	237.6	216.7	193.6	167.8
-72.5°	334.6	317.2	300.4	282.7	268.3	254.8	241.9	225.9	206.6	185.6	161.1
-75°	304.5	290.9	278.1	264.9	252.2	240.0	227.9	213.8	196.1	177.1	154.2
-77.5°	283.2	271.4	259.0	247.0	236.1	224.9	213.8	201.4	185.3	168.3	146.9
-80°	262.0	251.6	240.8	230.3	220.1	209.8	199.8	188.9	174.3	159.2	139.4
-82.5°	240.8	231.4	222.5	213.4	204.4	195.6	186.2	176.3	163.1	149.7	132.3
-85°	221.0	213.0	204.7	196.2	188.7	181.2	173.0	164.6	153.6	142.4	126.5
-87.5°	204.2	197.3	189.9	182.5	176.1	169.7	162.4	155.0	145.1	135.1	120.4
-90°	4.7	4.7	5.3	5.9	5.9	5.9	6.5	7.0	7.0	7.0	7.6



REPORT NUMBER: P735983 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-70-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	100.7	83.7	66.7	48.0	29.3	19.9	10.5
87.5°	8.5	8.6	8.6	8.5	8.4	9.6	10.5
85°	8.8	9.0	9.0	8.8	8.6	9.8	10.5
82.5°	9.2	9.3	9.4	9.1	8.8	10.0	10.5
80°	9.5	9.7	9.8	9.4	9.1	10.2	10.5
77.5°	10.1	10.2	10.2	9.7	9.3	10.4	10.5
75°	10.7	10.7	10.6	10.0	9.6	10.6	10.5
72.5°	11.4	11.2	11.0	10.3	9.8	10.8	10.5
70°	12.0	11.8	11.5	10.6	10.1	11.1	10.5
67.5°	12.8	12.3	11.9	11.1	10.4	11.3	10.5
65°	13.7	13.1	12.4	11.5	10.7	11.5	10.5
62.5°	14.7	14.1	12.9	12.0	11.1	11.8	10.5
60°	15.8	15.2	13.5	12.5	11.4	12.0	10.5
57.5°	18.0	16.4	14.7	13.0	12.1	12.3	10.5
55°	20.4	17.6	16.0	13.5	12.8	12.5	10.5
52.5°	23.0	19.1	17.3	14.0	13.5	12.7	10.5
50°	25.7	21.7	18.8	14.5	14.3	13.0	10.5
47.5°	28.9	24.5	20.2	15.2	15.1	13.3	10.5
45°	34.2	27.4	21.8	16.4	15.9	13.5	10.5
42.5°	39.6	30.4	23.4	17.6	16.8	13.8	10.5
40°	45.3	33.6	25.5	19.3	17.7	14.0	10.5
37.5°	51.3	36.8	27.9	21.4	18.7	14.3	10.5
35°	57.3	41.1	30.4	23.4	19.7	14.5	10.5
32.5°	64.3	45.9	32.9	25.5	20.7	14.8	10.5
30°	73.2	50.6	35.5	27.7	21.8	15.0	10.5
27.5°	81.9	55.3	38.9	29.8	22.8	15.3	10.5
25°	90.4	59.8	42.3	31.9	23.9	15.5	10.5
22.5°	98.5	64.5	45.7	34.1	25.0	15.8	10.5
20°	106.3	69.8	49.0	36.2	26.1	16.0	10.5
17.5°	114.4	75.0	52.2	38.3	27.1	16.2	10.5
15°	122.4	80.0	55.3	40.3	28.2	16.5	10.5
12.5°	129.9	84.9	58.3	42.4	29.3	16.7	10.5
10°	136.9	89.5	61.2	44.3	30.3	16.9	10.5
7.5°	143.4	93.9	63.9	46.2	31.3	17.1	10.5
5°	149.3	98.0	66.6	48.1	32.2	17.3	10.5
2.5°	154.6	101.9	69.1	49.8	33.1	17.4	10.5
0°	159.3	105.4	71.4	51.5	34.0	17.6	10.5
-2.5°	164.8	109.6	74.7	53.7	35.3	18.2	10.5
-5°	169.6	113.5	77.9	55.8	36.5	18.8	10.5
-7.5°	173.7	117.1	80.9	57.7	37.7	19.4	10.5
-10°	177.2	120.3	83.7	59.6	38.8	20.0	10.5
-12.5°	179.9	123.1	86.2	61.3	39.8	20.6	10.5
-15°	181.8	125.5	88.5	62.8	40.7	21.1	10.5
-17.5°	183.0	127.6	90.6	64.2	41.6	21.6	10.5
-20°	183.9	129.2	92.5	65.5	42.4	22.1	10.5



REPORT NUMBER: P735983 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-70-4S-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	184.8	130.5	94.0	66.6	43.1	22.5	10.5
-25°	184.8	132.0	95.3	67.6	43.7	22.9	10.5
-27.5°	184.1	133.4	96.4	68.3	44.2	23.3	10.5
-30°	182.4	134.3	97.2	68.9	44.7	23.6	10.5
-32.5°	180.0	134.8	98.5	69.4	45.0	23.9	10.5
-35°	179.0	134.7	99.5	69.6	45.3	24.2	10.5
-37.5°	178.5	134.8	100.2	69.7	45.4	24.4	10.5
-40°	177.4	135.3	100.7	69.6	45.5	24.5	10.5
-42.5°	175.5	135.6	101.0	69.5	45.5	24.7	10.5
-45°	172.8	135.4	101.2	69.7	45.4	24.8	10.5
-47.5°	169.6	134.9	101.1	69.6	45.2	24.8	10.5
-50°	167.9	134.0	100.7	69.6	44.9	24.8	10.5
-52.5°	166.1	132.8	100.0	69.5	44.5	24.8	10.5
-55°	163.9	131.2	99.0	69.2	44.1	24.7	10.5
-57.5°	161.2	129.2	97.7	68.7	43.5	24.6	10.5
-60°	158.2	126.8	96.1	68.1	42.9	24.4	10.5
-62.5°	154.7	124.1	94.8	67.2	42.3	24.2	10.5
-65°	150.7	121.1	93.3	66.2	41.5	24.0	10.5
-67.5°	146.3	118.0	91.5	65.0	40.7	23.7	10.5
-70°	141.5	114.8	89.4	63.6	39.7	23.4	10.5
-72.5°	136.6	111.3	87.2	62.1	38.7	23.1	10.5
-75°	131.4	107.5	84.7	60.5	37.5	22.7	10.5
-77.5°	125.8	103.4	82.1	58.8	36.3	22.3	10.5
-80°	119.9	99.6	79.4	56.9	35.0	21.9	10.5
-82.5°	115.3	95.9	76.4	54.8	33.7	21.4	10.5
-85°	110.6	92.0	73.4	52.7	32.3	20.9	10.5
-87.5°	105.8	87.9	70.1	50.4	30.8	20.4	10.5
-90°	8.2	8.2	8.2	8.2	8.2	9.4	10.5

(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

