

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: P701646 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-40-80-5S-VHE-S**

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701646 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-5)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680R-40-80-5S-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 5S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

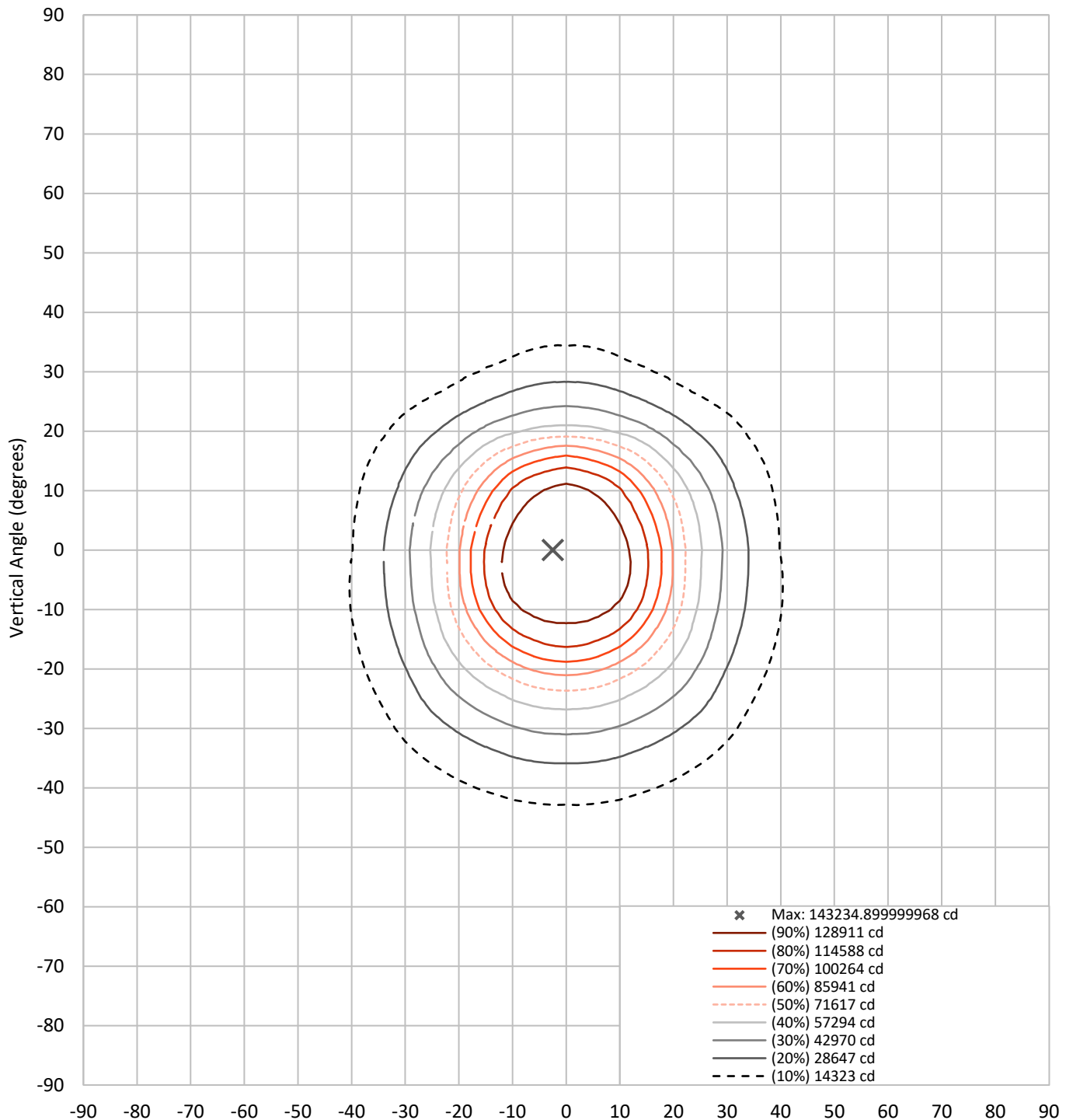
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	93265.4 lumens	Max Intensity:	143234.9 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	133.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	44.5°H x 42.5°V	Field Angle (10%):	79.6°H x 77.3°V
Beam Lumens:	51211.5 lumens	Field Lumens:	85699.5 lumens
Beam Efficiency:	54.9%	Field Efficiency:	91.9%

Input Watts (W): 697.5
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: P701646 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: EPH-LS-08-0680R-40-80-5S-VHE-S

Iso-Candela Plot





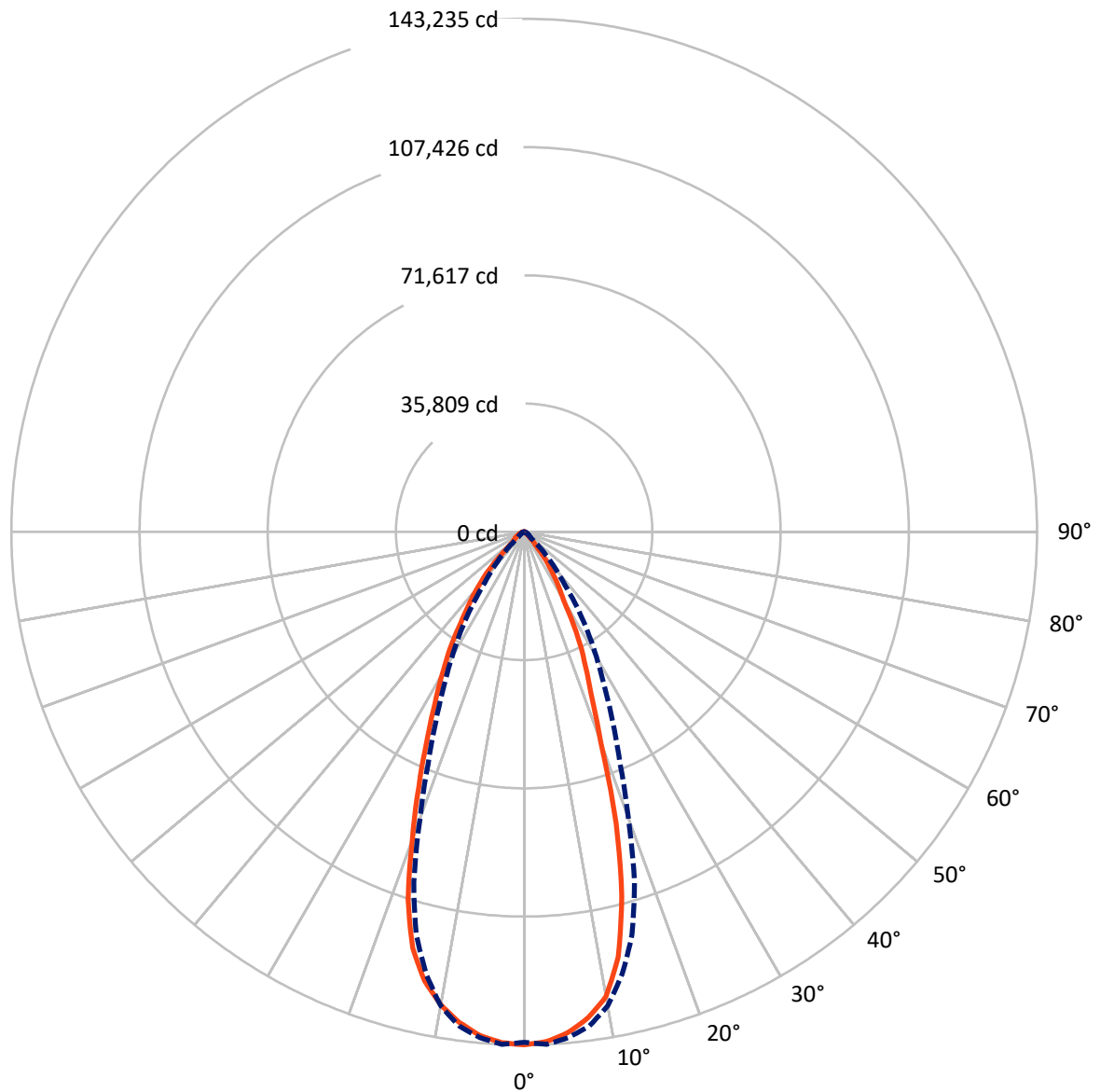
REPORT NUMBER: P701646 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-80-5S-VHE-S

Lumen Table

90	0.4	1.4	2.3	3.2	3.6	3.2	2.3	1.4	0.4							
80	0.4	0.2	0.3	0.5	0.7	0.7	0.8	1.0	1.0	0.8	0.7	0.7	0.5	0.3	0.2	0.4
70	0.4	0.5	0.8	1.3	1.4	1.0	1.2	1.4	1.4	1.2	1.0	1.4	1.3	0.8	0.5	0.4
60	1.1	1.3	2.8	5.6	10.0	20.5	45.2	61.0	61.0	45.2	20.5	10.0	5.6	2.8	1.3	1.1
50	1.1	2.8	9.3	18.9	47.9	142.3	263.7	388.5	388.5	263.7	142.3	47.9	18.9	9.3	2.8	1.1
40	2.3	4.8	16.1	41.1	197.5	466.7	858.0	1178.0	1178.0	858.0	466.7	197.5	41.1	16.1	4.8	2.3
30	2.3	6.6	21.5	92.9	431.2	1066.1	2074.2	2964.3	2964.3	2074.2	1066.1	431.2	92.9	21.5	6.6	2.3
20	3.4	8.2	25.3	140.9	607.1	1548.0	3105.6	4119.7	4119.7	3105.6	1548.0	607.1	140.9	25.3	8.2	3.4
10	3.4	9.2	28.2	150.2	654.1	1623.3	3294.7	4184.1	4184.1	3294.7	1623.3	654.1	150.2	28.2	9.2	3.4
0	4.0	9.4	29.7	123.8	557.0	1356.6	2555.7	3450.8	3450.8	2555.7	1356.6	557.0	123.8	29.7	9.4	4.0
-10	4.0	9.0	29.7	76.9	361.2	898.2	1493.7	1936.2	1936.2	1493.7	898.2	361.2	76.9	29.7	9.0	4.0
-20	4.1	8.1	26.0	55.4	147.0	437.0	735.2	934.1	934.1	735.2	437.0	147.0	55.4	26.0	8.1	4.1
-30	4.1	6.8	19.3	41.9	70.9	115.9	216.9	304.1	304.1	216.9	115.9	70.9	41.9	19.3	6.8	4.1
-40	3.7	5.5	12.8	26.3	46.5	65.0	80.0	91.5	91.5	80.0	65.0	46.5	26.3	12.8	5.5	3.7
-50	3.7	4.4	8.5	14.8	24.1	32.9	41.9	48.2	48.2	41.9	32.9	24.1	14.8	8.5	4.4	3.7
-60	3.7	4.4	8.5	14.8	24.1	32.9	41.9	48.2	48.2	41.9	32.9	24.1	14.8	8.5	4.4	3.7
-70	2.7	16.3	36.1	56.7	69.5	56.7	36.1	16.3	2.7							
-80	2.7	16.3	36.1	56.7	69.5	56.7	36.1	16.3	2.7							
-90	2.7	16.3	36.1	56.7	69.5	56.7	36.1	16.3	2.7							

REPORT NUMBER: P701646 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: EPH-LS-08-0680R-40-80-5S-VHE-S

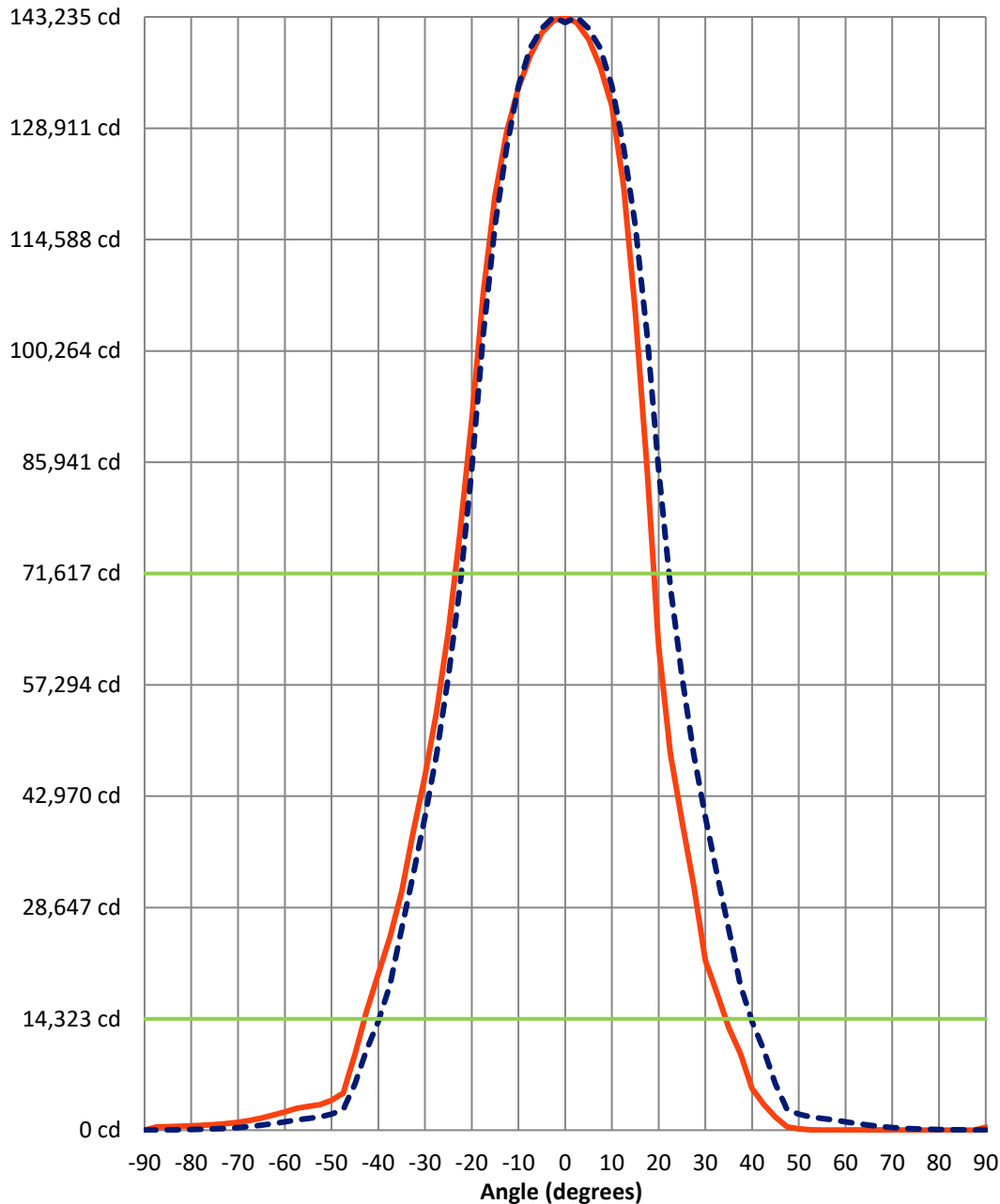
Luminous Intensity Polar Plot



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

REPORT NUMBER: P701646 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-80-5S-VHE-S

Luminous Intensity Plot



Beam:
 H Angle: 44.5°
 V Angle: 42.5°
 Lumens: 51211.5
 Efficiency: 54.9%

Field:
 H Angle: 79.6°
 V Angle: 77.3°
 Lumens: 85699.5
 Efficiency: 91.9%

Spill:
 Lumens: 7565.9
 Efficiency: 8.1%

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



REPORT NUMBER: P701646 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-80-5S-VHE-S

FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	12.4	24.2	36.0	59.6	83.3	105.2	127.2	145.2	163.2	176.2	189.1
87.5°	12.4	11.5	10.4	10.5	10.5	10.6	10.7	10.2	9.8	9.7	9.5
85°	12.4	11.7	10.7	10.8	10.9	11.1	11.3	10.9	10.6	10.3	9.9
82.5°	12.4	12.0	11.0	11.2	11.3	11.6	11.9	11.7	11.4	11.0	10.5
80°	12.4	12.3	11.3	11.6	11.7	12.1	12.5	12.3	12.2	11.7	11.0
77.5°	12.4	12.5	11.7	12.0	12.1	12.7	13.1	13.0	12.9	12.4	11.6
75°	12.4	12.8	12.0	12.4	12.6	13.4	13.7	13.7	13.7	13.0	12.2
72.5°	12.4	13.0	12.4	12.7	13.4	14.2	14.4	14.4	14.2	13.5	12.8
70°	12.4	13.3	12.7	13.2	14.2	15.0	15.1	15.2	14.9	14.1	13.8
67.5°	12.4	13.6	13.1	13.8	15.0	15.8	16.1	16.1	15.6	15.4	15.0
65°	12.4	13.8	13.5	14.5	15.8	16.7	17.1	17.1	17.1	16.7	16.7
62.5°	12.4	14.1	14.0	15.1	16.6	17.6	18.2	18.6	18.8	18.5	19.4
60°	12.4	14.4	14.4	15.8	17.4	18.6	19.2	20.3	20.5	22.3	22.6
57.5°	12.4	14.7	15.1	16.4	18.6	19.6	21.4	22.2	25.3	27.1	28.8
55°	12.4	14.9	15.9	17.1	19.8	20.5	23.8	24.6	31.4	33.5	37.1
52.5°	12.4	15.2	16.7	17.7	21.1	21.8	26.5	30.9	38.2	43.7	46.4
50°	12.4	15.5	17.6	18.4	22.5	24.9	29.4	37.9	46.4	54.5	59.9
47.5°	12.4	15.8	18.5	19.1	24.0	28.2	33.0	44.9	56.9	65.9	75.1
45°	12.4	16.0	19.4	20.4	25.6	31.7	39.2	52.1	67.6	80.5	91.1
42.5°	12.4	16.3	20.4	21.6	27.3	35.3	45.4	60.8	78.7	95.8	115.3
40°	12.4	16.6	21.5	23.5	29.7	39.0	52.1	70.8	91.0	111.5	142.2
37.5°	12.4	16.9	22.5	25.8	32.7	42.9	59.2	80.9	105.3	130.5	170.6
35°	12.4	17.2	23.6	28.1	35.7	48.1	66.4	91.2	120.0	156.1	203.5
32.5°	12.4	17.4	24.8	30.4	38.7	53.9	74.3	101.9	135.1	182.3	240.8
30°	12.4	17.7	25.9	32.8	41.7	59.6	83.3	113.3	150.4	208.9	277.4
27.5°	12.4	18.0	27.1	35.3	45.8	65.2	92.2	125.7	167.6	235.7	313.3
25°	12.4	18.2	28.3	37.7	50.0	70.7	100.8	137.7	187.6	264.6	348.6
22.5°	12.4	18.5	29.5	40.2	54.1	76.4	109.2	149.1	206.4	289.4	385.8
20°	12.4	18.7	30.7	42.6	58.1	82.5	117.3	160.0	224.1	313.0	416.9
17.5°	12.4	18.9	31.9	45.1	62.0	88.4	125.4	170.3	240.5	335.1	446.3
15°	12.4	19.2	33.1	47.5	65.8	94.0	133.2	180.3	255.8	355.6	474.1
12.5°	12.4	19.4	34.2	49.9	69.5	99.4	140.6	190.2	271.0	374.6	500.3
10°	12.4	19.6	35.4	52.3	73.0	104.4	147.5	199.4	286.3	397.0	527.9
7.5°	12.4	19.8	36.4	54.5	76.4	109.2	153.9	208.0	300.3	418.7	560.9
5°	12.4	20.0	37.5	56.7	79.6	113.7	159.8	216.0	313.1	438.8	592.0
2.5°	12.4	20.1	38.5	58.8	82.6	117.8	165.2	223.2	324.5	456.9	620.5
0°	12.4	20.3	39.4	60.8	85.5	121.6	170.0	229.6	334.3	472.8	646.1
-2.5°	12.4	21.1	41.1	63.5	89.5	127.2	177.2	238.9	345.7	486.2	659.3
-5°	12.4	21.8	42.7	66.0	93.2	132.3	183.9	247.4	355.4	497.1	669.1
-7.5°	12.4	22.6	44.2	68.4	96.8	137.1	189.9	254.9	363.3	505.3	675.4
-10°	12.4	23.3	45.7	70.7	100.1	141.4	195.2	261.5	369.4	510.8	678.5
-12.5°	12.4	24.0	47.0	72.8	103.1	145.3	199.8	267.0	373.4	513.7	683.2
-15°	12.4	24.6	48.3	74.7	105.9	148.7	203.7	271.4	375.7	514.5	685.7
-17.5°	12.4	25.3	49.4	76.5	108.4	151.6	206.9	275.2	376.2	512.3	682.8
-20°	12.4	25.9	50.5	78.2	110.6	153.9	209.7	278.5	374.8	507.0	674.3



REPORT NUMBER: P701646 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-80-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	12.4	26.4	51.4	79.6	112.5	155.7	212.6	280.7	371.5	498.6	660.8
-25°	12.4	26.9	52.2	80.9	114.1	157.9	214.7	281.9	366.2	487.1	649.0
-27.5°	12.4	27.4	52.9	81.9	115.3	160.0	216.0	282.1	359.0	479.3	640.3
-30°	12.4	27.8	53.6	82.8	116.3	161.6	216.4	281.3	355.9	473.1	626.8
-32.5°	12.4	28.2	54.0	83.5	118.3	162.6	216.0	280.7	355.7	463.6	608.1
-35°	12.4	28.6	54.4	84.0	119.9	163.1	216.1	279.6	353.7	450.9	584.2
-37.5°	12.4	28.8	54.7	84.3	121.3	163.6	216.0	277.9	349.9	434.9	562.5
-40°	12.4	29.1	54.8	84.5	122.2	164.9	215.3	275.0	344.4	425.2	541.6
-42.5°	12.4	29.3	54.8	84.7	123.1	165.7	214.1	271.0	338.9	417.1	517.0
-45°	12.4	29.4	54.7	85.2	123.8	166.1	212.3	267.0	332.9	406.8	491.3
-47.5°	12.4	29.5	54.4	85.4	124.0	166.1	209.6	263.9	325.5	394.4	476.9
-50°	12.4	29.6	54.1	85.4	123.8	165.7	208.7	259.8	316.0	383.1	459.8
-52.5°	12.4	29.6	53.6	85.3	123.3	164.8	207.5	254.7	308.0	369.8	439.3
-55°	12.4	29.5	53.0	84.9	122.3	163.3	205.8	249.2	300.1	354.5	418.7
-57.5°	12.4	29.4	52.3	84.2	120.9	161.4	203.6	246.4	291.1	342.4	396.1
-60°	12.4	29.3	51.5	83.4	119.2	158.9	200.7	242.5	282.1	330.6	374.6
-62.5°	12.4	29.1	50.8	82.3	117.5	156.0	197.0	237.7	276.3	316.8	357.5
-65°	12.4	28.8	50.0	80.9	115.5	152.7	192.7	232.2	269.8	306.1	339.2
-67.5°	12.4	28.5	49.0	79.4	113.1	149.0	187.8	225.5	262.5	296.0	325.1
-70°	12.4	28.2	47.9	77.6	110.5	145.0	182.5	218.3	253.7	285.2	312.4
-72.5°	12.4	27.8	46.8	75.9	107.6	140.5	176.1	210.4	244.1	272.9	298.8
-75°	12.4	27.4	45.5	74.1	104.3	135.5	169.0	201.3	233.8	260.2	284.5
-77.5°	12.4	26.9	44.1	72.1	101.3	130.2	161.4	191.3	221.7	246.5	269.7
-80°	12.4	26.5	42.6	69.9	98.1	125.3	153.3	180.8	208.9	230.9	252.4
-82.5°	12.4	25.9	41.1	67.6	94.7	120.7	147.0	170.9	195.6	214.9	234.1
-85°	12.4	25.4	39.4	65.1	91.1	115.8	140.7	162.6	185.0	201.2	217.2
-87.5°	12.4	24.8	37.7	62.4	87.3	110.6	134.1	154.1	174.2	188.8	203.3
-90°	12.4	11.3	10.1	10.1	10.1	10.1	10.1	9.6	9.0	9.0	9.0



REPORT NUMBER: P701646 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-80-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	197.0	204.9	212.2	219.5	228.5	237.5	247.1	256.6	266.8	276.9	286.5
87.5°	9.0	8.5	8.5	8.5	8.0	7.5	7.2	6.8	6.2	5.6	5.5
85°	9.5	9.0	9.1	9.0	8.6	8.2	7.8	7.3	6.8	6.3	6.3
82.5°	10.2	10.2	9.8	9.1	8.9	8.9	8.5	8.0	7.5	7.2	7.0
80°	11.0	11.3	10.4	9.5	9.3	9.1	8.5	8.0	7.9	7.9	7.5
77.5°	11.5	11.4	10.7	10.1	9.7	9.3	9.0	8.6	8.4	8.0	7.9
75°	11.8	11.5	11.1	10.4	10.0	10.0	9.8	9.5	9.2	9.3	9.3
72.5°	12.5	12.2	11.6	10.7	10.4	10.6	10.7	10.3	10.6	11.0	11.0
70°	13.4	13.0	12.2	11.5	11.1	11.5	12.0	12.7	13.6	13.8	14.9
67.5°	14.5	14.1	13.0	12.4	12.2	12.8	13.5	16.3	18.9	20.4	22.0
65°	16.1	15.4	14.3	14.2	13.5	16.3	18.6	21.5	26.9	29.5	29.3
62.5°	18.1	18.3	17.0	17.3	19.6	22.0	26.1	32.3	38.5	41.0	38.8
60°	23.0	22.3	22.4	23.9	26.4	29.4	35.7	43.3	50.6	54.4	48.6
57.5°	29.4	29.2	31.0	31.9	35.3	36.2	44.6	54.1	60.3	65.0	57.3
55°	38.5	38.9	42.2	43.2	45.6	45.5	52.8	61.7	68.0	70.2	62.2
52.5°	51.2	51.8	57.7	58.5	57.8	58.5	61.2	70.7	76.0	76.2	69.1
50°	65.0	72.2	75.9	78.4	74.0	76.7	74.2	84.8	92.8	92.1	94.6
47.5°	85.5	95.2	100.5	104.5	101.2	109.6	107.8	124.1	129.7	160.6	165.5
45°	109.9	125.3	132.4	141.2	150.9	161.1	187.2	187.3	260.4	289.2	365.1
42.5°	137.1	160.2	180.2	183.7	232.3	260.5	296.2	369.5	440.9	530.6	564.8
40°	173.3	199.0	239.5	285.4	339.2	400.7	467.1	556.0	649.8	696.2	702.1
37.5°	213.4	261.7	318.2	401.3	484.1	564.8	648.9	736.0	803.5	820.7	883.7
35°	256.5	327.3	432.8	528.2	624.5	735.9	810.9	891.0	931.5	1002.6	1123.8
32.5°	310.7	394.6	525.8	649.9	756.9	878.2	950.0	1011.3	1106.5	1229.7	1497.6
30°	367.2	470.6	603.2	746.5	878.3	980.0	1061.7	1138.7	1287.9	1585.6	2503.8
27.5°	414.4	535.8	675.3	835.0	985.3	1078.1	1170.7	1305.2	1571.8	2185.3	3926.7
25°	456.6	588.5	746.0	931.3	1078.5	1180.7	1301.2	1491.1	1909.4	3574.3	5806.0
22.5°	497.9	640.4	826.6	1032.6	1173.0	1281.5	1464.1	1807.0	2683.5	5024.3	7706.4
20°	540.5	706.8	914.2	1126.7	1263.5	1370.8	1606.4	2113.8	3908.1	6585.1	9383.3
17.5°	585.1	773.7	999.5	1193.6	1321.6	1464.5	1756.5	2365.4	4930.4	8042.8	11175.1
15°	628.7	837.9	1072.4	1251.3	1374.8	1565.6	1957.9	3107.6	6011.3	9670.5	13090.9
12.5°	670.5	896.2	1128.9	1296.6	1427.2	1659.8	2123.4	3925.2	7311.1	11181.8	14756.4
10°	709.9	948.5	1176.5	1339.4	1484.2	1760.3	2282.8	4725.7	8448.9	12164.0	15784.4
7.5°	750.4	992.0	1216.6	1380.2	1539.2	1855.0	2458.4	5347.6	9298.5	12919.5	16578.7
5°	787.0	1025.5	1255.3	1425.9	1595.8	1939.1	2600.3	5823.0	9935.9	13543.7	17286.1
2.5°	819.0	1051.7	1288.1	1469.0	1651.1	2009.4	2641.2	5955.1	10235.4	13879.5	17981.9
0°	846.5	1071.6	1314.7	1507.2	1700.8	2066.6	2652.0	5932.0	10309.5	13981.3	18659.4
-2.5°	862.1	1097.2	1362.3	1562.1	1745.3	2112.8	2708.1	5940.8	10372.2	14693.9	19530.6
-5°	872.9	1116.4	1401.3	1610.9	1784.7	2145.2	2739.3	5805.8	10287.5	15069.1	19785.3
-7.5°	879.1	1128.5	1430.1	1651.3	1820.5	2168.7	2756.9	5586.1	10292.2	15086.2	19465.0
-10°	882.3	1140.0	1443.6	1674.1	1851.2	2180.1	2748.4	5208.9	9883.6	14677.8	18937.3
-12.5°	892.9	1150.6	1448.3	1690.9	1875.7	2182.7	2761.0	4839.9	9117.2	13934.4	18183.0
-15°	897.0	1153.4	1445.7	1704.8	1915.3	2209.3	2761.4	4266.5	8122.2	12991.1	17234.4
-17.5°	894.3	1148.2	1437.4	1724.9	1951.9	2211.5	2698.7	3514.5	6985.8	11649.1	15985.5
-20°	884.5	1136.3	1419.5	1734.9	1972.8	2229.9	2680.3	3392.4	5872.0	9971.2	14469.0



REPORT NUMBER: P701646 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-80-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	870.4	1117.9	1393.7	1713.0	1996.7	2269.9	2655.2	3230.0	4562.4	8054.5	12591.6
-25°	853.5	1097.5	1366.2	1687.7	2007.7	2295.6	2577.4	3013.2	3793.5	6414.5	10268.0
-27.5°	835.9	1068.5	1336.8	1645.9	2001.0	2283.3	2531.5	2893.0	3444.4	4592.5	7847.0
-30°	813.5	1033.8	1293.5	1591.6	1941.8	2245.7	2503.6	2737.5	3114.1	3804.0	5757.6
-32.5°	786.1	993.0	1245.3	1529.9	1852.4	2200.5	2439.0	2642.2	2929.1	3351.9	4153.5
-35°	755.2	957.0	1191.7	1452.0	1746.5	2087.1	2341.9	2556.9	2750.7	3076.1	3588.7
-37.5°	723.7	912.5	1122.7	1369.5	1650.0	1928.1	2228.7	2443.0	2638.2	2842.5	3207.5
-40°	686.9	857.3	1054.2	1282.4	1520.2	1772.5	2051.4	2319.9	2512.8	2725.6	2944.5
-42.5°	646.7	804.9	980.8	1178.7	1392.1	1619.0	1866.4	2135.4	2394.0	2597.4	2798.7
-45°	614.2	748.3	902.7	1078.9	1262.6	1464.5	1690.2	1925.7	2200.2	2463.7	2649.8
-47.5°	574.9	691.8	834.3	974.0	1140.2	1320.3	1513.1	1736.3	1966.4	2225.9	2480.4
-50°	537.3	644.5	754.1	880.1	1021.1	1179.4	1351.3	1547.8	1760.6	1973.3	2204.1
-52.5°	511.7	593.6	687.0	786.4	909.7	1045.3	1197.7	1364.4	1551.0	1736.8	1937.0
-55°	483.5	554.4	621.5	705.7	802.7	920.3	1052.5	1198.3	1340.6	1510.2	1680.2
-57.5°	455.9	514.8	568.6	633.3	714.2	800.7	920.8	1042.2	1165.7	1297.0	1440.7
-60°	428.0	476.2	523.3	575.5	634.6	711.2	794.7	896.1	997.1	1102.0	1229.1
-62.5°	400.1	439.4	479.8	524.9	575.0	626.7	695.0	768.9	839.7	935.2	1036.6
-65°	377.7	404.7	438.2	477.8	518.3	565.5	613.2	659.4	721.5	794.0	867.5
-67.5°	353.6	379.0	403.6	431.4	467.9	507.0	546.3	587.8	629.9	679.7	733.3
-70°	336.1	354.0	375.8	398.8	422.8	451.1	486.1	520.5	556.0	597.5	640.3
-72.5°	319.5	336.0	352.3	368.4	390.0	413.4	436.6	459.7	489.2	524.6	558.7
-75°	302.5	317.6	332.6	347.2	363.5	381.0	399.2	420.0	443.0	467.5	491.2
-77.5°	285.1	298.5	312.2	325.6	340.6	356.0	371.9	387.9	405.9	424.9	443.2
-80°	266.5	279.1	291.2	303.3	316.7	330.5	344.7	358.9	374.9	391.3	406.6
-82.5°	246.0	257.2	268.5	279.7	292.1	304.4	317.0	329.5	343.6	357.9	370.9
-85°	226.4	235.0	245.1	254.9	266.2	277.4	288.7	299.8	312.8	325.6	337.0
-87.5°	211.8	220.0	228.2	236.2	245.9	255.5	265.2	274.8	286.1	297.5	307.3
-90°	8.5	7.9	7.9	7.9	7.4	6.8	6.8	6.8	6.2	5.6	5.1



REPORT NUMBER: P701646 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-80-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	296.0	302.2	308.4	313.5	318.6	325.4	332.1	341.1	350.1	359.1	368.1
87.5°	5.4	5.0	4.5	4.4	4.4	4.4	4.4	3.9	3.4	3.4	3.4
85°	6.4	6.3	6.2	5.8	5.4	5.4	5.5	5.4	5.5	5.0	4.5
82.5°	6.8	6.8	6.8	6.2	5.6	5.6	5.6	5.6	5.6	5.1	4.5
80°	7.2	7.0	6.8	6.6	6.4	6.1	5.7	5.2	4.7	4.6	4.5
77.5°	8.0	7.7	7.3	7.1	6.9	6.3	5.7	5.1	4.6	4.5	4.5
75°	9.1	8.7	8.5	8.1	7.5	7.2	7.1	6.8	6.4	6.5	6.6
72.5°	10.9	10.7	10.7	11.0	10.9	11.3	11.8	12.2	12.7	13.6	14.7
70°	16.2	17.3	17.8	18.2	18.1	17.9	17.8	18.1	18.7	19.3	19.7
67.5°	23.7	25.5	26.4	26.8	25.1	24.1	24.2	24.7	25.6	27.1	29.4
65°	31.0	30.5	29.6	29.0	29.3	29.4	29.2	29.6	31.1	33.4	36.3
62.5°	36.3	31.5	28.5	27.1	28.1	29.8	28.6	27.7	28.9	30.4	31.8
60°	41.5	32.5	26.0	24.0	23.6	24.4	22.4	20.5	21.1	21.6	22.4
57.5°	46.5	34.7	24.1	20.5	17.2	15.5	15.0	14.4	14.0	13.7	13.8
55°	50.9	37.8	23.6	20.9	18.6	18.1	16.6	15.8	15.1	14.9	15.2
52.5°	56.4	48.6	38.8	36.0	40.5	40.9	36.2	43.0	48.2	50.6	51.5
50°	92.3	82.7	99.3	97.7	117.1	130.8	126.0	141.3	164.0	178.3	184.2
47.5°	202.9	203.2	235.9	265.0	289.0	320.4	344.5	367.8	400.3	420.4	429.5
45°	384.9	417.6	451.8	501.6	549.4	607.5	677.5	732.5	953.3	1173.2	1373.3
42.5°	589.1	625.0	675.1	783.6	912.5	1211.0	1744.6	2042.4	2414.2	2818.9	2974.2
40°	759.1	811.3	948.8	1254.2	1998.2	2706.6	3484.7	4142.6	4725.0	5060.1	5340.2
37.5°	969.1	1093.6	1719.8	2584.4	3509.4	4397.2	5198.5	5893.8	6497.4	6986.9	7471.4
35°	1275.1	2102.2	3027.3	4151.5	5134.7	5957.1	6787.3	7584.1	8268.7	8999.7	10086.1
32.5°	2417.2	3498.2	4688.2	5695.9	6656.8	7694.5	8566.9	9841.8	10840.2	12173.2	14210.3
30°	3879.8	5236.5	6315.5	7323.4	8555.7	9952.0	11408.8	13358.7	15396.3	17521.8	19709.3
27.5°	5757.7	7128.0	8265.6	9610.0	11237.0	13095.3	15880.3	18628.9	21551.1	24209.1	26229.2
25°	8021.2	9472.4	11416.9	13367.6	15695.9	18871.6	22000.6	25368.2	28298.0	30906.4	33826.4
22.5°	10142.6	12521.5	15089.3	18034.2	21825.7	25407.3	29276.1	32684.1	36360.8	40078.5	42953.8
20°	11933.6	15032.6	18716.1	22961.5	27164.2	31221.4	35723.5	41155.8	46629.5	51519.5	55068.1
17.5°	14349.4	18274.3	22859.3	27905.6	32430.1	37457.9	43723.9	50782.1	58452.0	65238.3	70619.2
15°	16989.1	21572.2	26756.5	32044.0	37768.2	44505.4	52562.5	61576.5	70958.4	80474.3	89339.7
12.5°	18783.6	24153.1	29814.4	36101.4	43241.1	52274.1	62057.6	72050.2	82771.6	94611.7	104895.6
10°	20317.7	26274.7	33104.7	40417.7	48621.7	58331.8	68443.5	80580.7	93963.5	105623.2	116638.2
7.5°	21835.1	28834.9	35969.6	43583.8	52597.3	63143.9	75111.2	88164.4	101783.9	114457.1	123464.9
5°	23630.6	30892.6	38026.8	46070.1	55509.2	66479.6	79102.4	94091.7	108441.4	120090.6	128215.2
2.5°	25115.3	32127.0	39432.1	47392.9	57093.9	68548.0	82247.9	98905.5	113629.6	124522.0	131873.7
0°	25871.2	32917.6	40316.3	48406.1	58350.9	70038.2	84985.3	102484.2	116400.2	126462.6	134335.8
-2.5°	25963.3	32666.2	39928.6	47907.6	57627.1	69546.1	84869.4	102575.0	117121.3	127579.8	135347.6
-5°	25695.0	32335.2	39583.6	47567.4	57155.5	69570.8	84956.3	101981.5	116037.5	126870.6	134186.0
-7.5°	25047.9	31727.1	38989.0	46855.2	56292.6	68333.5	82683.2	98115.5	112573.4	124278.5	131026.9
-10°	24099.9	30662.7	37812.6	45342.7	54242.8	65375.2	78208.5	92336.8	106946.7	118138.4	125920.8
-12.5°	22900.9	29112.0	35946.8	43065.9	51468.8	61840.6	73280.1	85110.5	97357.4	110116.6	118222.5
-15°	21524.3	27199.9	33597.6	40755.0	49062.5	57706.3	66793.1	76431.5	87627.2	98063.8	107499.3
-17.5°	20218.2	25106.3	31075.7	38049.2	45123.4	52634.0	60421.6	68290.7	77268.6	85461.1	92789.9
-20°	18576.7	22738.8	28238.9	34435.2	41008.7	47516.4	54205.5	60580.9	67098.5	73766.9	79587.5



REPORT NUMBER: P701646 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-80-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	16642.0	20689.7	25278.5	30673.6	36984.5	42776.4	48133.9	53116.2	58340.3	62954.4	67744.5
-25°	14534.3	18426.1	22643.1	27561.4	32406.8	37657.5	42104.0	46341.1	50393.2	54016.3	57741.2
-27.5°	11946.1	16054.6	20211.5	24147.7	28146.1	31916.2	36062.1	39971.3	43350.6	46339.5	49291.8
-30°	9030.4	13391.1	17323.2	20699.9	23869.8	27014.2	30188.1	33468.4	36667.6	39389.3	41807.4
-32.5°	6662.8	10300.5	13935.2	17244.1	20018.4	22617.3	25085.5	27659.2	29896.8	32194.3	34430.4
-35°	4408.2	6979.4	9996.7	13360.6	16250.0	18436.4	20674.4	22726.3	24413.1	26194.3	27882.4
-37.5°	3709.9	4394.1	6412.6	9143.6	11819.7	14333.9	16565.8	18349.7	19902.1	21324.9	22782.8
-40°	3272.5	3662.8	4237.2	5229.4	7480.0	9691.7	11991.1	13887.3	15541.2	16905.0	18247.3
-42.5°	2985.5	3253.3	3539.4	3930.2	4315.4	5398.5	7286.1	8922.8	10474.0	12010.5	13393.5
-45°	2836.8	2987.1	3150.8	3363.2	3527.9	3821.5	4149.4	4457.4	5691.9	7026.1	8142.8
-47.5°	2658.4	2818.7	2941.0	3041.0	3121.2	3250.1	3386.4	3564.5	3850.3	4187.4	4444.6
-50°	2430.3	2624.9	2747.0	2847.3	2904.8	2954.7	3003.8	3115.5	3270.3	3454.1	3599.9
-52.5°	2135.5	2328.0	2500.8	2631.3	2694.9	2756.9	2818.6	2895.4	2983.5	3089.6	3165.7
-55°	1857.6	2018.4	2168.0	2289.7	2399.4	2499.3	2595.4	2676.7	2771.7	2872.7	2943.6
-57.5°	1593.9	1723.7	1846.4	1951.8	2046.8	2130.8	2229.1	2335.9	2457.4	2573.2	2654.6
-60°	1347.4	1450.6	1552.7	1638.3	1715.6	1784.5	1875.3	1964.9	2071.5	2166.3	2235.3
-62.5°	1127.0	1217.2	1292.6	1357.2	1415.4	1473.1	1549.5	1624.4	1712.0	1787.8	1845.2
-65°	936.4	1011.6	1064.7	1112.7	1154.9	1204.0	1263.1	1323.1	1392.0	1450.9	1498.0
-67.5°	789.4	840.4	873.7	903.3	938.3	977.4	1022.1	1070.1	1123.6	1168.1	1204.2
-70°	678.3	710.1	730.3	752.4	777.9	805.0	835.3	871.4	912.1	946.8	976.7
-72.5°	590.4	614.6	631.4	648.5	663.8	682.3	702.7	729.7	759.7	786.9	812.1
-75°	514.1	531.5	547.1	561.9	575.3	590.9	607.2	629.9	654.6	676.9	698.0
-77.5°	462.8	476.3	486.7	496.6	506.3	519.3	532.7	551.1	570.3	588.8	606.7
-80°	421.8	432.1	440.9	448.2	454.9	466.0	477.4	492.4	507.7	523.7	539.6
-82.5°	383.7	392.8	401.2	408.2	414.6	424.5	434.8	448.2	461.7	475.0	488.2
-85°	348.1	356.4	364.3	370.9	377.4	385.5	393.5	405.2	416.8	428.9	440.9
-87.5°	317.1	324.9	332.8	337.9	343.0	350.2	357.4	367.3	377.2	387.6	398.0
-90°	4.5	4.5	4.5	4.0	3.4	3.4	3.4	2.9	2.3	2.3	2.3



REPORT NUMBER: P701646 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-80-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	372.6	377.1	379.4	381.6	379.4	377.1	372.6	368.1	359.1	350.1	341.1
87.5°	2.8	2.3	2.3	2.3	2.3	2.3	2.8	3.4	3.4	3.4	3.9
85°	3.9	3.4	3.9	4.5	3.9	3.4	3.9	4.5	5.0	5.5	5.4
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.1	5.6	5.6
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.6	4.7	5.2
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.6	5.1
75°	6.2	5.6	5.6	5.6	5.6	5.6	6.2	6.6	6.5	6.4	6.8
72.5°	15.2	15.5	16.2	16.9	16.2	15.5	15.2	14.7	13.6	12.7	12.2
70°	20.0	20.2	20.3	20.3	20.3	20.2	20.0	19.7	19.3	18.7	18.1
67.5°	30.6	31.1	32.4	33.8	32.4	31.1	30.6	29.4	27.1	25.6	24.7
65°	38.4	39.9	40.4	40.5	40.4	39.9	38.4	36.3	33.4	31.1	29.6
62.5°	33.2	34.7	35.0	34.9	35.0	34.7	33.2	31.8	30.4	28.9	27.7
60°	23.2	23.8	24.2	24.8	24.2	23.8	23.2	22.4	21.6	21.1	20.5
57.5°	14.0	14.7	14.7	14.6	14.7	14.7	14.0	13.8	13.7	14.0	14.4
55°	15.4	15.7	15.3	14.6	15.3	15.7	15.4	15.2	14.9	15.1	15.8
52.5°	50.2	47.6	45.1	42.8	45.1	47.6	50.2	51.5	50.6	48.2	43.0
50°	182.3	179.2	174.9	170.0	174.9	179.2	182.3	184.2	178.3	164.0	141.3
47.5°	437.7	438.6	434.3	426.6	434.3	438.6	437.7	429.5	420.4	400.3	367.8
45°	1547.6	1631.8	1677.2	1708.7	1677.2	1631.8	1547.6	1373.3	1173.2	953.3	732.5
42.5°	3110.0	3228.1	3317.8	3336.3	3317.8	3228.1	3110.0	2974.2	2818.9	2414.2	2042.4
40°	5672.2	5692.0	5362.8	4866.0	5362.8	5692.0	5672.2	5340.2	5060.1	4725.0	4142.6
37.5°	8048.8	8879.3	9844.2	10336.6	9844.2	8879.3	8048.8	7471.4	6986.9	6497.4	5893.8
35°	11551.9	12801.3	13206.5	13217.0	13206.5	12801.3	11551.9	10086.1	8999.7	8268.7	7584.1
32.5°	16047.5	17063.3	17605.6	17458.3	17605.6	17063.3	16047.5	14210.3	12173.2	10840.2	9841.8
30°	20983.9	21867.7	21874.8	21579.2	21874.8	21867.7	20983.9	19709.3	17521.8	15396.3	13358.7
27.5°	28320.2	30187.6	31501.9	31856.1	31501.9	30187.6	28320.2	26229.2	24209.1	21551.1	18628.9
25°	36457.4	38509.5	39771.2	40230.7	39771.2	38509.5	36457.4	33826.4	30906.4	28298.0	25368.2
22.5°	45629.8	47624.9	48535.5	49011.7	48535.5	47624.9	45629.8	42953.8	40078.5	36360.8	32684.1
20°	58450.8	61287.6	62357.0	62814.0	62357.0	61287.6	58450.8	55068.1	51519.5	46629.5	41155.8
17.5°	76210.2	81812.9	85316.0	87115.0	85316.0	81812.9	76210.2	70619.2	65238.3	58452.0	50782.1
15°	95900.8	101588.6	105329.1	107572.0	105329.1	101588.6	95900.8	89339.7	80474.3	70958.4	61576.5
12.5°	112792.9	117863.3	121476.1	123623.9	121476.1	117863.3	112792.9	104895.6	94611.7	82771.6	72050.2
10°	123629.7	127978.1	131726.3	133556.9	131726.3	127978.1	123629.7	116638.2	105623.2	93963.5	80580.7
7.5°	129754.4	134810.5	136842.3	138094.2	136842.3	134810.5	129754.4	123464.9	114457.1	101783.9	88164.4
5°	134501.1	138496.7	140372.3	141287.6	140372.3	138496.7	134501.1	128215.2	120090.6	108441.4	94091.7
2.5°	137669.9	141138.5	142464.9	143203.4	142464.9	141138.5	137669.9	131873.7	124522.0	113629.6	98905.5
0°	139190.6	141748.0	143234.9	142510.0	143234.9	141748.0	139190.6	134335.8	126462.6	116400.2	102484.2
-2.5°	139201.2	141632.1	142737.5	142199.4	142737.5	141632.1	139201.2	135347.6	127579.8	117121.3	102575.0
-5°	138010.3	139824.5	141170.8	140739.4	141170.8	139824.5	138010.3	134186.0	126870.6	116037.5	101981.5
-7.5°	134798.6	137209.8	138195.9	138243.9	138195.9	137209.8	134798.6	131026.9	124278.5	112573.4	98115.5
-10°	130380.5	133053.8	134103.7	134210.9	134103.7	133053.8	130380.5	125920.8	118138.4	106946.7	92336.8
-12.5°	123814.1	126950.1	128461.0	128730.3	128461.0	126950.1	123814.1	118222.5	110116.6	97357.4	85110.5
-15°	113620.6	117847.4	120233.2	121070.4	120233.2	117847.4	113620.6	107499.3	98063.8	87627.2	76431.5
-17.5°	99762.9	104813.1	107788.1	108837.2	107788.1	104813.1	99762.9	92789.9	85461.1	77268.6	68290.7
-20°	85308.1	89052.1	91345.5	92290.6	91345.5	89052.1	85308.1	79587.5	73766.9	67098.5	60580.9



REPORT NUMBER: P701646 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-80-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	72160.0	75178.7	76882.7	77639.5	76882.7	75178.7	72160.0	67744.5	62954.4	58340.3	53116.2
-25°	60756.6	63299.0	64172.9	64665.7	64172.9	63299.0	60756.6	57741.2	54016.3	50393.2	46341.1
-27.5°	51439.3	53456.1	53926.7	54361.7	53926.7	53456.1	51439.3	49291.8	46339.5	43350.6	39971.3
-30°	43588.2	45343.3	45583.3	46064.8	45583.3	45343.3	43588.2	41807.4	39389.3	36667.6	33468.4
-32.5°	36246.0	37808.8	38407.4	38499.5	38407.4	37808.8	36246.0	34430.4	32194.3	29896.8	27659.2
-35°	29215.2	30245.2	30652.7	30677.6	30652.7	30245.2	29215.2	27882.4	26194.3	24413.1	22726.3
-37.5°	23687.3	24344.0	24816.0	24685.9	24816.0	24344.0	23687.3	22782.8	21324.9	19902.1	18349.7
-40°	18999.5	19660.1	20091.5	19986.5	20091.5	19660.1	18999.5	18247.3	16905.0	15541.2	13887.3
-42.5°	14156.4	14882.9	15290.7	15177.8	15290.7	14882.9	14156.4	13393.5	12010.5	10474.0	8922.8
-45°	8779.4	9419.8	9720.3	9537.4	9720.3	9419.8	8779.4	8142.8	7026.1	5691.9	4457.4
-47.5°	4580.2	4726.0	4772.6	4707.3	4772.6	4726.0	4580.2	4444.6	4187.4	3850.3	3564.5
-50°	3713.6	3805.0	3844.3	3832.7	3844.3	3805.0	3713.6	3599.9	3454.1	3270.3	3115.5
-52.5°	3225.5	3267.7	3281.6	3273.3	3281.6	3267.7	3225.5	3165.7	3089.6	2983.5	2895.4
-55°	3003.5	3045.5	3060.0	3054.9	3060.0	3045.5	3003.5	2943.6	2872.7	2771.7	2676.7
-57.5°	2722.1	2773.6	2805.5	2821.9	2805.5	2773.6	2722.1	2654.6	2573.2	2457.4	2335.9
-60°	2290.9	2332.1	2343.9	2337.9	2343.9	2332.1	2290.9	2235.3	2166.3	2071.5	1964.9
-62.5°	1890.2	1924.1	1949.4	1966.5	1949.4	1924.1	1890.2	1845.2	1787.8	1712.0	1624.4
-65°	1532.5	1557.0	1562.2	1557.9	1562.2	1557.0	1532.5	1498.0	1450.9	1392.0	1323.1
-67.5°	1229.4	1247.6	1250.0	1246.1	1250.0	1247.6	1229.4	1204.2	1168.1	1123.6	1070.1
-70°	996.8	1012.1	1014.2	1011.9	1014.2	1012.1	996.8	976.7	946.8	912.1	871.4
-72.5°	826.8	838.0	846.4	853.2	846.4	838.0	826.8	812.1	786.9	759.7	729.7
-75°	708.7	716.8	718.8	719.3	718.8	716.8	708.7	698.0	676.9	654.6	629.9
-77.5°	616.1	624.1	629.8	634.8	629.8	624.1	616.1	606.7	588.8	570.3	551.1
-80°	546.7	552.8	557.5	561.7	557.5	552.8	546.7	539.6	523.7	507.7	492.4
-82.5°	495.0	501.3	505.2	508.8	505.2	501.3	495.0	488.2	475.0	461.7	448.2
-85°	446.1	451.0	454.7	458.1	454.7	451.0	446.1	440.9	428.9	416.8	405.2
-87.5°	402.7	407.4	409.7	412.0	409.7	407.4	402.7	398.0	387.6	377.2	367.3
-90°	1.7	1.1	1.1	1.1	1.1	1.1	1.7	2.3	2.3	2.3	2.9



REPORT NUMBER: P701646 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-80-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	332.1	325.4	318.6	313.5	308.4	302.2	296.0	286.5	276.9	266.8	256.6
87.5°	4.4	4.4	4.4	4.4	4.5	5.0	5.4	5.5	5.6	6.2	6.8
85°	5.5	5.4	5.4	5.8	6.2	6.3	6.4	6.3	6.3	6.8	7.3
82.5°	5.6	5.6	5.6	6.2	6.8	6.8	6.8	7.0	7.2	7.5	8.0
80°	5.7	6.1	6.4	6.6	6.8	7.0	7.2	7.5	7.9	7.9	8.0
77.5°	5.7	6.3	6.9	7.1	7.3	7.7	8.0	7.9	8.0	8.4	8.6
75°	7.1	7.2	7.5	8.1	8.5	8.7	9.1	9.3	9.3	9.2	9.5
72.5°	11.8	11.3	10.9	11.0	10.7	10.7	10.9	11.0	11.0	10.6	10.3
70°	17.8	17.9	18.1	18.2	17.8	17.3	16.2	14.9	13.8	13.6	12.7
67.5°	24.2	24.1	25.1	26.8	26.4	25.5	23.7	22.0	20.4	18.9	16.3
65°	29.2	29.4	29.3	29.0	29.6	30.5	31.0	29.3	29.5	26.9	21.5
62.5°	28.6	29.8	28.1	27.1	28.5	31.5	36.3	38.8	41.0	38.5	32.3
60°	22.4	24.4	23.6	24.0	26.0	32.5	41.5	48.6	54.4	50.6	43.3
57.5°	15.0	15.5	17.2	20.5	24.1	34.7	46.5	57.3	65.0	60.3	54.1
55°	16.6	18.1	18.6	20.9	23.6	37.8	50.9	62.2	70.2	68.0	61.7
52.5°	36.2	40.9	40.5	36.0	38.8	48.6	56.4	69.1	76.2	76.0	70.7
50°	126.0	130.8	117.1	97.7	99.3	82.7	92.3	94.6	92.1	92.8	84.8
47.5°	344.5	320.4	289.0	265.0	235.9	203.2	202.9	165.5	160.6	129.7	124.1
45°	677.5	607.5	549.4	501.6	451.8	417.6	384.9	365.1	289.2	260.4	187.3
42.5°	1744.6	1211.0	912.5	783.6	675.1	625.0	589.1	564.8	530.6	440.9	369.5
40°	3484.7	2706.6	1998.2	1254.2	948.8	811.3	759.1	702.1	696.2	649.8	556.0
37.5°	5198.5	4397.2	3509.4	2584.4	1719.8	1093.6	969.1	883.7	820.7	803.5	736.0
35°	6787.3	5957.1	5134.7	4151.5	3027.3	2102.2	1275.1	1123.8	1002.6	931.5	891.0
32.5°	8566.9	7694.5	6656.8	5695.9	4688.2	3498.2	2417.2	1497.6	1229.7	1106.5	1011.3
30°	11408.8	9952.0	8555.7	7323.4	6315.5	5236.5	3879.8	2503.8	1585.6	1287.9	1138.7
27.5°	15880.3	13095.3	11237.0	9610.0	8265.6	7128.0	5757.7	3926.7	2185.3	1571.8	1305.2
25°	22000.6	18871.6	15695.9	13367.6	11416.9	9472.4	8021.2	5806.0	3574.3	1909.4	1491.1
22.5°	29276.1	25407.3	21825.7	18034.2	15089.3	12521.5	10142.6	7706.4	5024.3	2683.5	1807.0
20°	35723.5	31221.4	27164.2	22961.5	18716.1	15032.6	11933.6	9383.3	6585.1	3908.1	2113.8
17.5°	43723.9	37457.9	32430.1	27905.6	22859.3	18274.3	14349.4	11175.1	8042.8	4930.4	2365.4
15°	52562.5	44505.4	37768.2	32044.0	26756.5	21572.2	16989.1	13090.9	9670.5	6011.3	3107.6
12.5°	62057.6	52274.1	43241.1	36101.4	29814.4	24153.1	18783.6	14756.4	11181.8	7311.1	3925.2
10°	68443.5	58331.8	48621.7	40417.7	33104.7	26274.7	20317.7	15784.4	12164.0	8448.9	4725.7
7.5°	75111.2	63143.9	52597.3	43583.8	35969.6	28834.9	21835.1	16578.7	12919.5	9298.5	5347.6
5°	79102.4	66479.6	55509.2	46070.1	38026.8	30892.6	23630.6	17286.1	13543.7	9935.9	5823.0
2.5°	82247.9	68548.0	57093.9	47392.9	39432.1	32127.0	25115.3	17981.9	13879.5	10235.4	5955.1
0°	84985.3	70038.2	58350.9	48406.1	40316.3	32917.6	25871.2	18659.4	13981.3	10309.5	5932.0
-2.5°	84869.4	69546.1	57627.1	47907.6	39928.6	32666.2	25963.3	19530.6	14693.9	10372.2	5940.8
-5°	84956.3	69570.8	57155.5	47567.4	39583.6	32335.2	25695.0	19785.3	15069.1	10287.5	5805.8
-7.5°	82683.2	68333.5	56292.6	46855.2	38989.0	31727.1	25047.9	19465.0	15086.2	10292.2	5586.1
-10°	78208.5	65375.2	54242.8	45342.7	37812.6	30662.7	24099.9	18937.3	14677.8	9883.6	5208.9
-12.5°	73280.1	61840.6	51468.8	43065.9	35946.8	29112.0	22900.9	18183.0	13934.4	9117.2	4839.9
-15°	66793.1	57706.3	49062.5	40755.0	33597.6	27199.9	21524.3	17234.4	12991.1	8122.2	4266.5
-17.5°	60421.6	52634.0	45123.4	38049.2	31075.7	25106.3	20218.2	15985.5	11649.1	6985.8	3514.5
-20°	54205.5	47516.4	41008.7	34435.2	28238.9	22738.8	18576.7	14469.0	9971.2	5872.0	3392.4



REPORT NUMBER: P701646 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-80-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	48133.9	42776.4	36984.5	30673.6	25278.5	20689.7	16642.0	12591.6	8054.5	4562.4	3230.0
-25°	42104.0	37657.5	32406.8	27561.4	22643.1	18426.1	14534.3	10268.0	6414.5	3793.5	3013.2
-27.5°	36062.1	31916.2	28146.1	24147.7	20211.5	16054.6	11946.1	7847.0	4592.5	3444.4	2893.0
-30°	30188.1	27014.2	23869.8	20699.9	17323.2	13391.1	9030.4	5757.6	3804.0	3114.1	2737.5
-32.5°	25085.5	22617.3	20018.4	17244.1	13935.2	10300.5	6662.8	4153.5	3351.9	2929.1	2642.2
-35°	20674.4	18436.4	16250.0	13360.6	9996.7	6979.4	4408.2	3588.7	3076.1	2750.7	2556.9
-37.5°	16565.8	14333.9	11819.7	9143.6	6412.6	4394.1	3709.9	3207.5	2842.5	2638.2	2443.0
-40°	11991.1	9691.7	7480.0	5229.4	4237.2	3662.8	3272.5	2944.5	2725.6	2512.8	2319.9
-42.5°	7286.1	5398.5	4315.4	3930.2	3539.4	3253.3	2985.5	2798.7	2597.4	2394.0	2135.4
-45°	4149.4	3821.5	3527.9	3363.2	3150.8	2987.1	2836.8	2649.8	2463.7	2200.2	1925.7
-47.5°	3386.4	3250.1	3121.2	3041.0	2941.0	2818.7	2658.4	2480.4	2225.9	1966.4	1736.3
-50°	3003.8	2954.7	2904.8	2847.3	2747.0	2624.9	2430.3	2204.1	1973.3	1760.6	1547.8
-52.5°	2818.6	2756.9	2694.9	2631.3	2500.8	2328.0	2135.5	1937.0	1736.8	1551.0	1364.4
-55°	2595.4	2499.3	2399.4	2289.7	2168.0	2018.4	1857.6	1680.2	1510.2	1340.6	1198.3
-57.5°	2229.1	2130.8	2046.8	1951.8	1846.4	1723.7	1593.9	1440.7	1297.0	1165.7	1042.2
-60°	1875.3	1784.5	1715.6	1638.3	1552.7	1450.6	1347.4	1229.1	1102.0	997.1	896.1
-62.5°	1549.5	1473.1	1415.4	1357.2	1292.6	1217.2	1127.0	1036.6	935.2	839.7	768.9
-65°	1263.1	1204.0	1154.9	1112.7	1064.7	1011.6	936.4	867.5	794.0	721.5	659.4
-67.5°	1022.1	977.4	938.3	903.3	873.7	840.4	789.4	733.3	679.7	629.9	587.8
-70°	835.3	805.0	777.9	752.4	730.3	710.1	678.3	640.3	597.5	556.0	520.5
-72.5°	702.7	682.3	663.8	648.5	631.4	614.6	590.4	558.7	524.6	489.2	459.7
-75°	607.2	590.9	575.3	561.9	547.1	531.5	514.1	491.2	467.5	443.0	420.0
-77.5°	532.7	519.3	506.3	496.6	486.7	476.3	462.8	443.2	424.9	405.9	387.9
-80°	477.4	466.0	454.9	448.2	440.9	432.1	421.8	406.6	391.3	374.9	358.9
-82.5°	434.8	424.5	414.6	408.2	401.2	392.8	383.7	370.9	357.9	343.6	329.5
-85°	393.5	385.5	377.4	370.9	364.3	356.4	348.1	337.0	325.6	312.8	299.8
-87.5°	357.4	350.2	343.0	337.9	332.8	324.9	317.1	307.3	297.5	286.1	274.8
-90°	3.4	3.4	3.4	4.0	4.5	4.5	4.5	5.1	5.6	6.2	6.8



REPORT NUMBER: P701646 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-80-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	247.1	237.5	228.5	219.5	212.2	204.9	197.0	189.1	176.2	163.2	145.2
87.5°	7.2	7.5	8.0	8.5	8.5	8.5	9.0	9.5	9.7	9.8	10.2
85°	7.8	8.2	8.6	9.0	9.1	9.0	9.5	9.9	10.3	10.6	10.9
82.5°	8.5	8.9	8.9	9.1	9.8	10.2	10.2	10.5	11.0	11.4	11.7
80°	8.5	9.1	9.3	9.5	10.4	11.3	11.0	11.0	11.7	12.2	12.3
77.5°	9.0	9.3	9.7	10.1	10.7	11.4	11.5	11.6	12.4	12.9	13.0
75°	9.8	10.0	10.0	10.4	11.1	11.5	11.8	12.2	13.0	13.7	13.7
72.5°	10.7	10.6	10.4	10.7	11.6	12.2	12.5	12.8	13.5	14.2	14.4
70°	12.0	11.5	11.1	11.5	12.2	13.0	13.4	13.8	14.1	14.9	15.2
67.5°	13.5	12.8	12.2	12.4	13.0	14.1	14.5	15.0	15.4	15.6	16.1
65°	18.6	16.3	13.5	14.2	14.3	15.4	16.1	16.7	16.7	17.1	17.1
62.5°	26.1	22.0	19.6	17.3	17.0	18.3	18.1	19.4	18.5	18.8	18.6
60°	35.7	29.4	26.4	23.9	22.4	22.3	23.0	22.6	22.3	20.5	20.3
57.5°	44.6	36.2	35.3	31.9	31.0	29.2	29.4	28.8	27.1	25.3	22.2
55°	52.8	45.5	45.6	43.2	42.2	38.9	38.5	37.1	33.5	31.4	24.6
52.5°	61.2	58.5	57.8	58.5	57.7	51.8	51.2	46.4	43.7	38.2	30.9
50°	74.2	76.7	74.0	78.4	75.9	72.2	65.0	59.9	54.5	46.4	37.9
47.5°	107.8	109.6	101.2	104.5	100.5	95.2	85.5	75.1	65.9	56.9	44.9
45°	187.2	161.1	150.9	141.2	132.4	125.3	109.9	91.1	80.5	67.6	52.1
42.5°	296.2	260.5	232.3	183.7	180.2	160.2	137.1	115.3	95.8	78.7	60.8
40°	467.1	400.7	339.2	285.4	239.5	199.0	173.3	142.2	111.5	91.0	70.8
37.5°	648.9	564.8	484.1	401.3	318.2	261.7	213.4	170.6	130.5	105.3	80.9
35°	810.9	735.9	624.5	528.2	432.8	327.3	256.5	203.5	156.1	120.0	91.2
32.5°	950.0	878.2	756.9	649.9	525.8	394.6	310.7	240.8	182.3	135.1	101.9
30°	1061.7	980.0	878.3	746.5	603.2	470.6	367.2	277.4	208.9	150.4	113.3
27.5°	1170.7	1078.1	985.3	835.0	675.3	535.8	414.4	313.3	235.7	167.6	125.7
25°	1301.2	1180.7	1078.5	931.3	746.0	588.5	456.6	348.6	264.6	187.6	137.7
22.5°	1464.1	1281.5	1173.0	1032.6	826.6	640.4	497.9	385.8	289.4	206.4	149.1
20°	1606.4	1370.8	1263.5	1126.7	914.2	706.8	540.5	416.9	313.0	224.1	160.0
17.5°	1756.5	1464.5	1321.6	1193.6	999.5	773.7	585.1	446.3	335.1	240.5	170.3
15°	1957.9	1565.6	1374.8	1251.3	1072.4	837.9	628.7	474.1	355.6	255.8	180.3
12.5°	2123.4	1659.8	1427.2	1296.6	1128.9	896.2	670.5	500.3	374.6	271.0	190.2
10°	2282.8	1760.3	1484.2	1339.4	1176.5	948.5	709.9	527.9	397.0	286.3	199.4
7.5°	2458.4	1855.0	1539.2	1380.2	1216.6	992.0	750.4	560.9	418.7	300.3	208.0
5°	2600.3	1939.1	1595.8	1425.9	1255.3	1025.5	787.0	592.0	438.8	313.1	216.0
2.5°	2641.2	2009.4	1651.1	1469.0	1288.1	1051.7	819.0	620.5	456.9	324.5	223.2
0°	2652.0	2066.6	1700.8	1507.2	1314.7	1071.6	846.5	646.1	472.8	334.3	229.6
-2.5°	2708.1	2112.8	1745.3	1562.1	1362.3	1097.2	862.1	659.3	486.2	345.7	238.9
-5°	2739.3	2145.2	1784.7	1610.9	1401.3	1116.4	872.9	669.1	497.1	355.4	247.4
-7.5°	2756.9	2168.7	1820.5	1651.3	1430.1	1128.5	879.1	675.4	505.3	363.3	254.9
-10°	2748.4	2180.1	1851.2	1674.1	1443.6	1140.0	882.3	678.5	510.8	369.4	261.5
-12.5°	2761.0	2182.7	1875.7	1690.9	1448.3	1150.6	892.9	683.2	513.7	373.4	267.0
-15°	2761.4	2209.3	1915.3	1704.8	1445.7	1153.4	897.0	685.7	514.5	375.7	271.4
-17.5°	2698.7	2211.5	1951.9	1724.9	1437.4	1148.2	894.3	682.8	512.3	376.2	275.2
-20°	2680.3	2229.9	1972.8	1734.9	1419.5	1136.3	884.5	674.3	507.0	374.8	278.5



REPORT NUMBER: P701646 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-80-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2655.2	2269.9	1996.7	1713.0	1393.7	1117.9	870.4	660.8	498.6	371.5	280.7
-25°	2577.4	2295.6	2007.7	1687.7	1366.2	1097.5	853.5	649.0	487.1	366.2	281.9
-27.5°	2531.5	2283.3	2001.0	1645.9	1336.8	1068.5	835.9	640.3	479.3	359.0	282.1
-30°	2503.6	2245.7	1941.8	1591.6	1293.5	1033.8	813.5	626.8	473.1	355.9	281.3
-32.5°	2439.0	2200.5	1852.4	1529.9	1245.3	993.0	786.1	608.1	463.6	355.7	280.7
-35°	2341.9	2087.1	1746.5	1452.0	1191.7	957.0	755.2	584.2	450.9	353.7	279.6
-37.5°	2228.7	1928.1	1650.0	1369.5	1122.7	912.5	723.7	562.5	434.9	349.9	277.9
-40°	2051.4	1772.5	1520.2	1282.4	1054.2	857.3	686.9	541.6	425.2	344.4	275.0
-42.5°	1866.4	1619.0	1392.1	1178.7	980.8	804.9	646.7	517.0	417.1	338.9	271.0
-45°	1690.2	1464.5	1262.6	1078.9	902.7	748.3	614.2	491.3	406.8	332.9	267.0
-47.5°	1513.1	1320.3	1140.2	974.0	834.3	691.8	574.9	476.9	394.4	325.5	263.9
-50°	1351.3	1179.4	1021.1	880.1	754.1	644.5	537.3	459.8	383.1	316.0	259.8
-52.5°	1197.7	1045.3	909.7	786.4	687.0	593.6	511.7	439.3	369.8	308.0	254.7
-55°	1052.5	920.3	802.7	705.7	621.5	554.4	483.5	418.7	354.5	300.1	249.2
-57.5°	920.8	800.7	714.2	633.3	568.6	514.8	455.9	396.1	342.4	291.1	246.4
-60°	794.7	711.2	634.6	575.5	523.3	476.2	428.0	374.6	330.6	282.1	242.5
-62.5°	695.0	626.7	575.0	524.9	479.8	439.4	400.1	357.5	316.8	276.3	237.7
-65°	613.2	565.5	518.3	477.8	438.2	404.7	377.7	339.2	306.1	269.8	232.2
-67.5°	546.3	507.0	467.9	431.4	403.6	379.0	353.6	325.1	296.0	262.5	225.5
-70°	486.1	451.1	422.8	398.8	375.8	354.0	336.1	312.4	285.2	253.7	218.3
-72.5°	436.6	413.4	390.0	368.4	352.3	336.0	319.5	298.8	272.9	244.1	210.4
-75°	399.2	381.0	363.5	347.2	332.6	317.6	302.5	284.5	260.2	233.8	201.3
-77.5°	371.9	356.0	340.6	325.6	312.2	298.5	285.1	269.7	246.5	221.7	191.3
-80°	344.7	330.5	316.7	303.3	291.2	279.1	266.5	252.4	230.9	208.9	180.8
-82.5°	317.0	304.4	292.1	279.7	268.5	257.2	246.0	234.1	214.9	195.6	170.9
-85°	288.7	277.4	266.2	254.9	245.1	235.0	226.4	217.2	201.2	185.0	162.6
-87.5°	265.2	255.5	245.9	236.2	228.2	220.0	211.8	203.3	188.8	174.2	154.1
-90°	6.8	6.8	7.4	7.9	7.9	7.9	8.5	9.0	9.0	9.0	9.6



REPORT NUMBER: P701646 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-80-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	127.2	105.2	83.3	59.6	36.0	24.2	12.4
87.5°	10.7	10.6	10.5	10.5	10.4	11.5	12.4
85°	11.3	11.1	10.9	10.8	10.7	11.7	12.4
82.5°	11.9	11.6	11.3	11.2	11.0	12.0	12.4
80°	12.5	12.1	11.7	11.6	11.3	12.3	12.4
77.5°	13.1	12.7	12.1	12.0	11.7	12.5	12.4
75°	13.7	13.4	12.6	12.4	12.0	12.8	12.4
72.5°	14.4	14.2	13.4	12.7	12.4	13.0	12.4
70°	15.1	15.0	14.2	13.2	12.7	13.3	12.4
67.5°	16.1	15.8	15.0	13.8	13.1	13.6	12.4
65°	17.1	16.7	15.8	14.5	13.5	13.8	12.4
62.5°	18.2	17.6	16.6	15.1	14.0	14.1	12.4
60°	19.2	18.6	17.4	15.8	14.4	14.4	12.4
57.5°	21.4	19.6	18.6	16.4	15.1	14.7	12.4
55°	23.8	20.5	19.8	17.1	15.9	14.9	12.4
52.5°	26.5	21.8	21.1	17.7	16.7	15.2	12.4
50°	29.4	24.9	22.5	18.4	17.6	15.5	12.4
47.5°	33.0	28.2	24.0	19.1	18.5	15.8	12.4
45°	39.2	31.7	25.6	20.4	19.4	16.0	12.4
42.5°	45.4	35.3	27.3	21.6	20.4	16.3	12.4
40°	52.1	39.0	29.7	23.5	21.5	16.6	12.4
37.5°	59.2	42.9	32.7	25.8	22.5	16.9	12.4
35°	66.4	48.1	35.7	28.1	23.6	17.2	12.4
32.5°	74.3	53.9	38.7	30.4	24.8	17.4	12.4
30°	83.3	59.6	41.7	32.8	25.9	17.7	12.4
27.5°	92.2	65.2	45.8	35.3	27.1	18.0	12.4
25°	100.8	70.7	50.0	37.7	28.3	18.2	12.4
22.5°	109.2	76.4	54.1	40.2	29.5	18.5	12.4
20°	117.3	82.5	58.1	42.6	30.7	18.7	12.4
17.5°	125.4	88.4	62.0	45.1	31.9	18.9	12.4
15°	133.2	94.0	65.8	47.5	33.1	19.2	12.4
12.5°	140.6	99.4	69.5	49.9	34.2	19.4	12.4
10°	147.5	104.4	73.0	52.3	35.4	19.6	12.4
7.5°	153.9	109.2	76.4	54.5	36.4	19.8	12.4
5°	159.8	113.7	79.6	56.7	37.5	20.0	12.4
2.5°	165.2	117.8	82.6	58.8	38.5	20.1	12.4
0°	170.0	121.6	85.5	60.8	39.4	20.3	12.4
-2.5°	177.2	127.2	89.5	63.5	41.1	21.1	12.4
-5°	183.9	132.3	93.2	66.0	42.7	21.8	12.4
-7.5°	189.9	137.1	96.8	68.4	44.2	22.6	12.4
-10°	195.2	141.4	100.1	70.7	45.7	23.3	12.4
-12.5°	199.8	145.3	103.1	72.8	47.0	24.0	12.4
-15°	203.7	148.7	105.9	74.7	48.3	24.6	12.4
-17.5°	206.9	151.6	108.4	76.5	49.4	25.3	12.4
-20°	209.7	153.9	110.6	78.2	50.5	25.9	12.4



REPORT NUMBER: P701646 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-80-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	212.6	155.7	112.5	79.6	51.4	26.4	12.4
-25°	214.7	157.9	114.1	80.9	52.2	26.9	12.4
-27.5°	216.0	160.0	115.3	81.9	52.9	27.4	12.4
-30°	216.4	161.6	116.3	82.8	53.6	27.8	12.4
-32.5°	216.0	162.6	118.3	83.5	54.0	28.2	12.4
-35°	216.1	163.1	119.9	84.0	54.4	28.6	12.4
-37.5°	216.0	163.6	121.3	84.3	54.7	28.8	12.4
-40°	215.3	164.9	122.2	84.5	54.8	29.1	12.4
-42.5°	214.1	165.7	123.1	84.7	54.8	29.3	12.4
-45°	212.3	166.1	123.8	85.2	54.7	29.4	12.4
-47.5°	209.6	166.1	124.0	85.4	54.4	29.5	12.4
-50°	208.7	165.7	123.8	85.4	54.1	29.6	12.4
-52.5°	207.5	164.8	123.3	85.3	53.6	29.6	12.4
-55°	205.8	163.3	122.3	84.9	53.0	29.5	12.4
-57.5°	203.6	161.4	120.9	84.2	52.3	29.4	12.4
-60°	200.7	158.9	119.2	83.4	51.5	29.3	12.4
-62.5°	197.0	156.0	117.5	82.3	50.8	29.1	12.4
-65°	192.7	152.7	115.5	80.9	50.0	28.8	12.4
-67.5°	187.8	149.0	113.1	79.4	49.0	28.5	12.4
-70°	182.5	145.0	110.5	77.6	47.9	28.2	12.4
-72.5°	176.1	140.5	107.6	75.9	46.8	27.8	12.4
-75°	169.0	135.5	104.3	74.1	45.5	27.4	12.4
-77.5°	161.4	130.2	101.3	72.1	44.1	26.9	12.4
-80°	153.3	125.3	98.1	69.9	42.6	26.5	12.4
-82.5°	147.0	120.7	94.7	67.6	41.1	25.9	12.4
-85°	140.7	115.8	91.1	65.1	39.4	25.4	12.4
-87.5°	134.1	110.6	87.3	62.4	37.7	24.8	12.4
-90°	10.1	10.1	10.1	10.1	10.1	11.3	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

