

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: P731267 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-57-80-4S-HEG**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731267 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-08-0530N-57-80-4S-HEG
Description: EPHEBUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 4S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

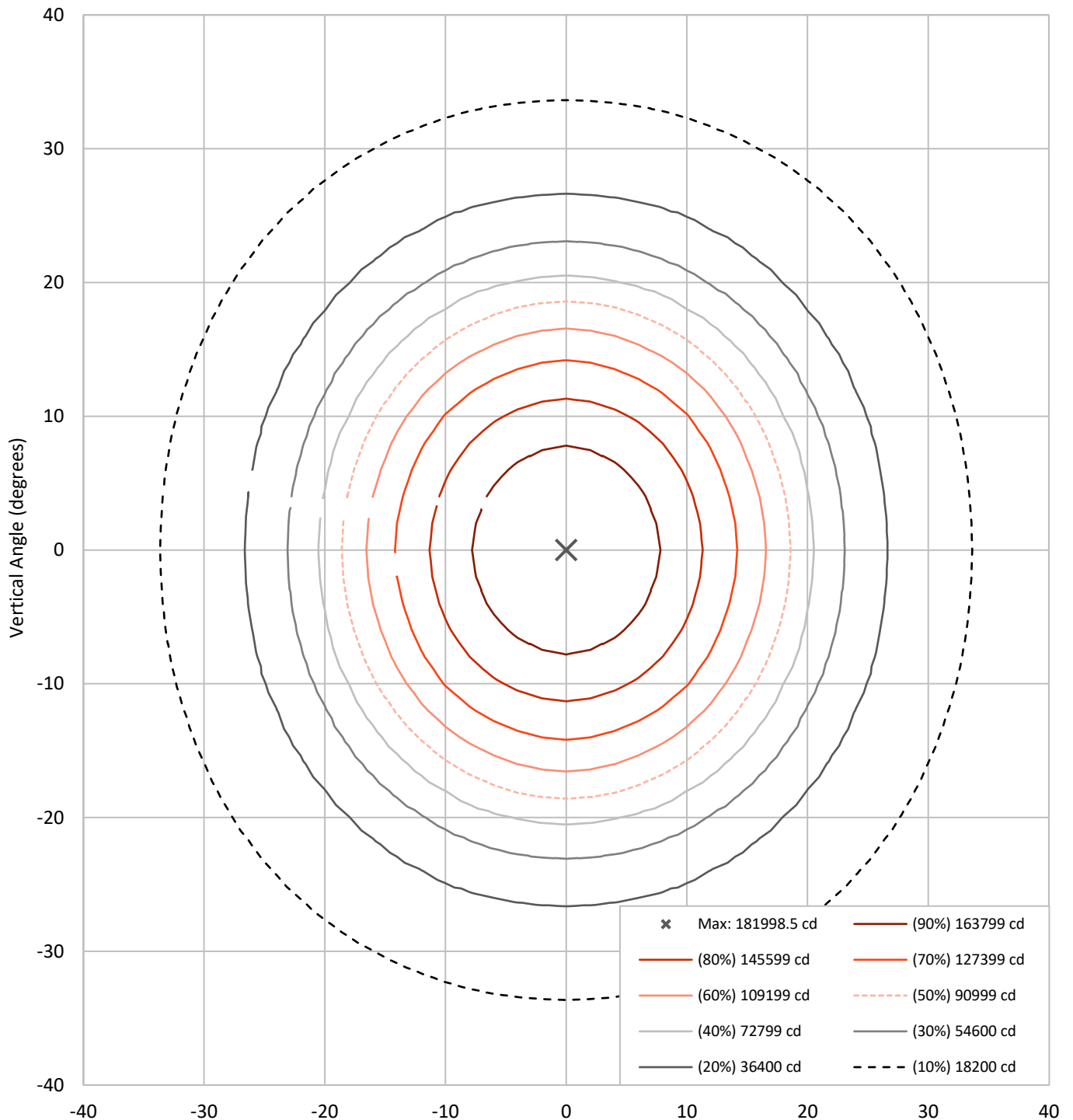
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	84048.7 lumens	Max Intensity:	181998.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	150.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	37.2°H x 37.2°V	Field Angle (10%):	67.2°H x 67.2°V
Beam Lumens:	43755 lumens	Field Lumens:	73501 lumens
Beam Efficiency:	52.1%	Field Efficiency:	87.5%

Input Watts (W): 559.9
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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CATALOG NUMBER: EPH-LS-08-0530N-57-80-4S-HEG

Iso-Candela Plot





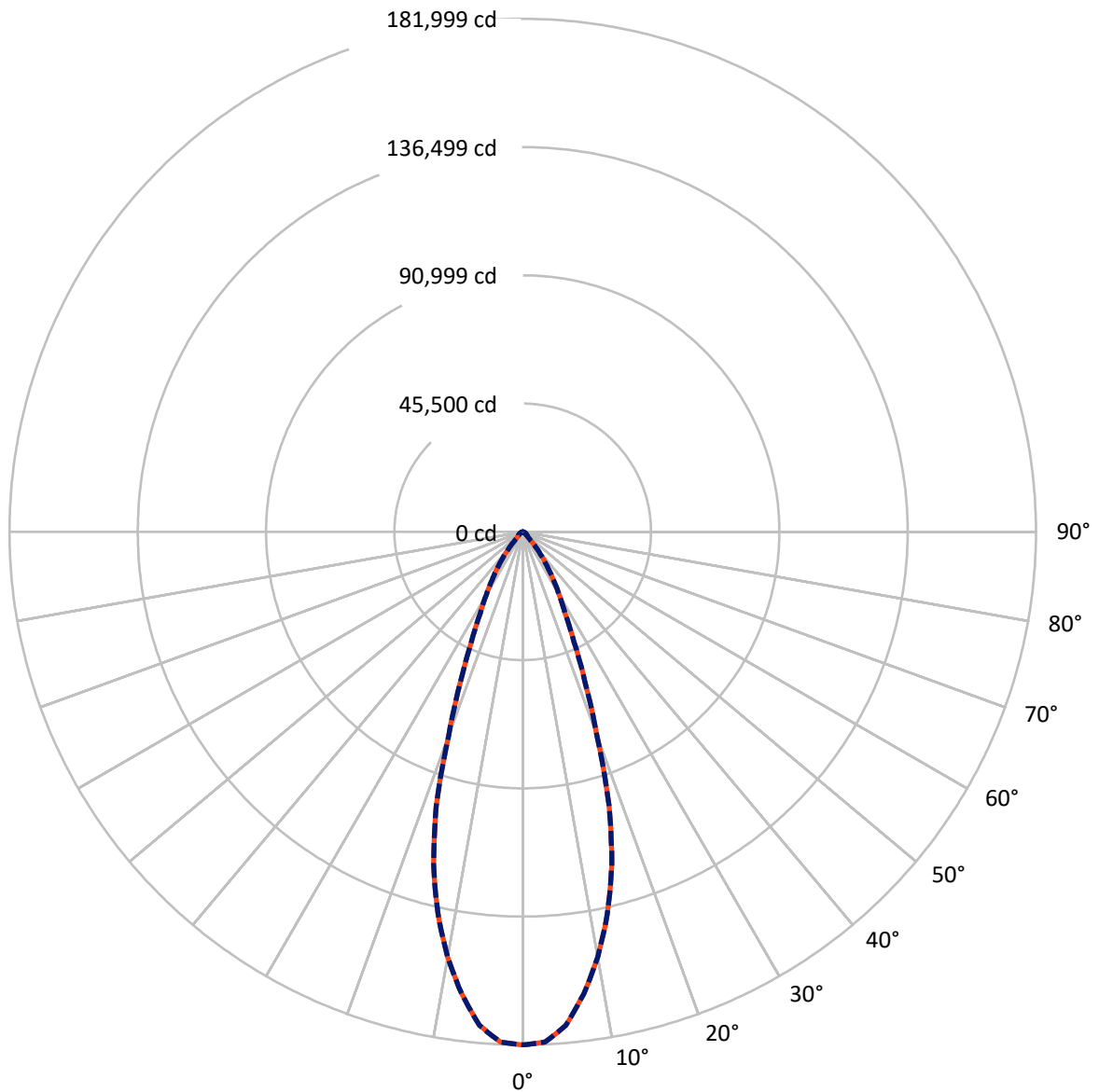
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 CATALOG NUMBER: EPH-LS-08-0530N-57-80-4S-HEG

Lumen Table

90																
80	0.1	0.6		2.5		6.0		7.8		6.0		2.5		0.6		0.1
70																
60	0.3	0.4	1.5	4.2	8.7	14.2	19.0	21.7	21.7	19.0	14.2	8.7	4.2	1.5	0.4	0.3
50		1.1	5.0	13.5	24.8	34.9	42.3	46.4	46.4	42.3	34.9	24.8	13.5	5.0	1.1	
40	0.8	2.6	11.1	25.2	39.2	54.3	78.1	103.0	103.0	78.1	54.3	39.2	25.2	11.1	2.6	0.8
30		4.7	17.6	33.9	58.8	158.1	334.5	464.1	464.1	334.5	158.1	58.8	33.9	17.6	4.7	
20	1.7	6.9	22.3	42.6	144.0	449.8	879.6	1308.0	1308.0	879.6	449.8	144.0	42.6	22.3	6.9	1.7
10		8.6	25.3	57.8	286.5	828.2	2051.1	3367.0	3367.0	2051.1	828.2	286.5	57.8	25.3	8.6	
0	2.2	9.5	27.0	74.5	385.6	1197.6	3271.9	4928.4	4928.4	3271.9	1197.6	385.6	74.5	27.0	9.5	2.2
-10		9.5	27.0	74.5	385.6	1197.6	3271.9	4928.4	4928.4	3271.9	1197.6	385.6	74.5	27.0	9.5	
-20	1.7	8.6	25.3	57.8	286.5	828.2	2051.1	3367.0	3367.0	2051.1	828.2	286.5	57.8	25.3	8.6	1.7
-30		6.9	22.3	42.6	144.0	449.8	879.6	1308.0	1308.0	879.6	449.8	144.0	42.6	22.3	6.9	
-40	0.8	4.7	17.6	33.9	58.8	158.1	334.5	464.1	464.1	334.5	158.1	58.8	33.9	17.6	4.7	0.8
-50		2.6	11.1	25.2	39.2	54.3	78.1	103.0	103.0	78.1	54.3	39.2	25.2	11.1	2.6	
-60	0.3	1.1	5.0	13.5	24.8	34.9	42.3	46.4	46.4	42.3	34.9	24.8	13.5	5.0	1.1	0.3
-70		0.4	1.5	4.2	8.7	14.2	19.0	21.7	21.7	19.0	14.2	8.7	4.2	1.5	0.4	
-80																
-90	0.1	0.6		2.5		6.0		7.8		6.0		2.5		0.6		0.1

REPORT NUMBER: P731267 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: EPH-LS-08-0530N-57-80-4S-HEG

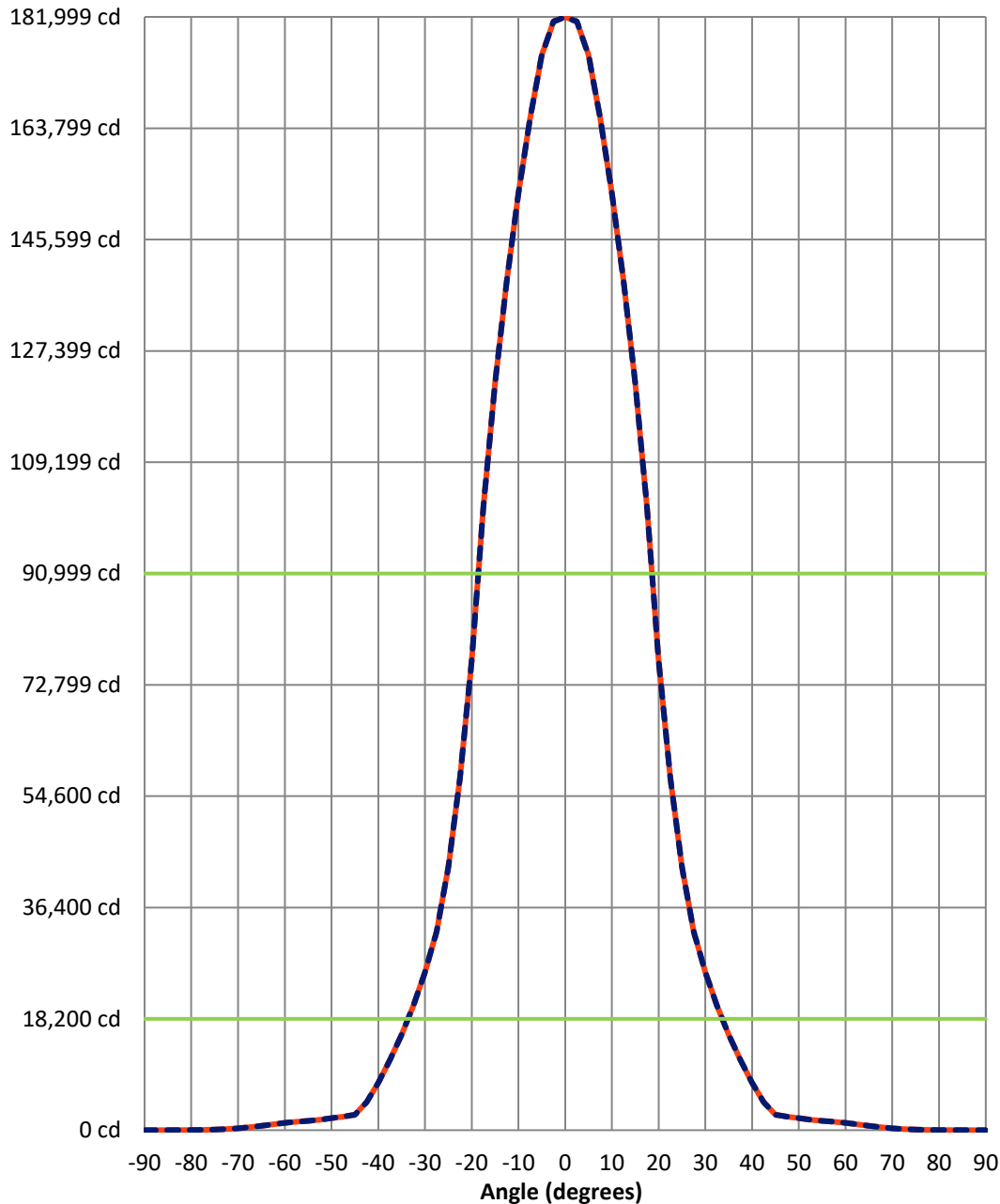
Luminous Intensity Polar Plot



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

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CATALOG NUMBER: EPH-LS-08-0530N-57-80-4S-HEG

Luminous Intensity Plot



Beam:
H Angle: 37.2°
V Angle: 37.2°
Lumens: 43755
Efficiency: 52.1%

Field:
H Angle: 67.2°
V Angle: 67.2°
Lumens: 73501
Efficiency: 87.5%

Spill:
Lumens: 10547.7
Efficiency: 12.5%

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



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.2	0.4	0.5	0.7	0.9	1.1	1.3	1.4	1.6	1.8
85°	0.0	0.4	0.7	1.1	1.5	1.8	2.2	2.5	2.9	3.2	3.5
82.5°	0.0	0.5	1.1	1.6	2.2	2.7	3.3	3.8	4.3	4.8	5.3
80°	0.0	0.7	1.5	2.2	2.9	3.6	4.3	5.0	5.7	6.4	7.1
77.5°	0.0	0.9	1.8	2.7	3.6	4.5	5.4	6.3	7.1	8.0	9.1
75°	0.0	1.1	2.2	3.3	4.3	5.4	6.5	7.5	8.6	10.3	12.0
72.5°	0.0	1.3	2.5	3.8	5.0	6.3	7.5	8.9	10.9	12.9	14.8
70°	0.0	1.4	2.9	4.3	5.7	7.1	8.6	10.9	13.2	15.5	17.7
67.5°	0.0	1.6	3.2	4.8	6.4	8.0	10.3	12.9	15.5	18.0	20.5
65°	0.0	1.8	3.5	5.3	7.1	9.1	12.0	14.8	17.7	20.5	25.0
62.5°	0.0	1.9	3.9	5.8	7.7	10.5	13.6	16.7	19.8	24.0	33.6
60°	0.0	2.1	4.2	6.3	8.4	11.8	15.2	18.6	22.0	31.6	42.1
57.5°	0.0	2.3	4.5	6.8	9.4	13.1	16.8	20.4	27.7	39.1	58.4
55°	0.0	2.4	4.8	7.2	10.4	14.4	18.3	22.2	34.2	48.7	78.1
52.5°	0.0	2.6	5.1	7.7	11.4	15.6	19.8	27.3	40.5	66.0	97.3
50°	0.0	2.7	5.4	8.1	12.3	16.8	21.2	32.7	49.2	82.7	122.4
47.5°	0.0	2.8	5.7	8.6	13.3	17.9	23.0	37.8	63.5	98.9	147.4
45°	0.0	3.0	5.9	9.2	14.1	19.0	27.3	42.8	77.4	120.5	171.5
42.5°	0.0	3.1	6.2	9.9	15.0	20.1	31.4	51.5	90.7	141.3	208.6
40°	0.0	3.2	6.4	10.5	15.8	21.1	35.3	62.6	105.0	161.2	246.4
37.5°	0.0	3.3	6.7	11.0	16.6	22.1	39.0	73.2	121.8	183.9	282.5
35°	0.0	3.4	6.9	11.6	17.3	24.3	42.5	83.2	137.7	214.5	322.4
32.5°	0.0	3.5	7.1	12.1	18.0	27.0	47.2	92.6	152.7	243.3	368.7
30°	0.0	3.6	7.3	12.6	18.6	29.6	54.7	102.2	166.7	270.4	412.1
27.5°	0.0	3.7	7.4	13.0	19.2	32.0	61.6	113.5	183.2	295.5	452.5
25°	0.0	3.8	7.6	13.4	19.8	34.2	68.0	123.9	203.6	325.3	490.2
22.5°	0.0	3.9	7.8	13.8	20.2	36.2	73.9	133.5	222.3	355.7	531.2
20°	0.0	3.9	7.9	14.1	20.7	37.9	79.2	142.1	239.1	383.1	568.3
17.5°	0.0	4.0	8.0	14.4	21.1	39.5	83.8	149.7	254.1	407.5	601.3
15°	0.0	4.1	8.1	14.7	21.4	40.9	87.9	156.3	267.1	428.7	630.1
12.5°	0.0	4.1	8.2	14.9	21.7	42.1	91.4	162.0	278.2	446.8	654.6
10°	0.0	4.1	8.3	15.1	22.0	43.1	94.2	166.6	287.3	461.7	674.7
7.5°	0.0	4.2	8.3	15.2	22.2	43.8	96.4	170.2	294.4	473.3	690.5
5°	0.0	4.2	8.4	15.3	22.3	44.4	98.0	172.8	299.5	481.6	701.8
2.5°	0.0	4.2	8.4	15.4	22.4	44.7	99.0	174.4	302.6	486.6	708.5
0°	0.0	4.2	8.4	15.4	22.4	44.7	99.0	174.4	302.6	486.6	708.5
-2.5°	0.0	4.2	8.4	15.4	22.4	44.7	99.0	174.4	302.6	486.6	708.5
-5°	0.0	4.2	8.4	15.3	22.3	44.4	98.0	172.8	299.5	481.6	701.8
-7.5°	0.0	4.2	8.3	15.2	22.2	43.8	96.4	170.2	294.4	473.3	690.5
-10°	0.0	4.1	8.3	15.1	22.0	43.1	94.2	166.6	287.3	461.7	674.7
-12.5°	0.0	4.1	8.2	14.9	21.7	42.1	91.4	162.0	278.2	446.8	654.6
-15°	0.0	4.1	8.1	14.7	21.4	40.9	87.9	156.3	267.1	428.7	630.1
-17.5°	0.0	4.0	8.0	14.4	21.1	39.5	83.8	149.7	254.1	407.5	601.3
-20°	0.0	3.9	7.9	14.1	20.7	37.9	79.2	142.1	239.1	383.1	568.3



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 CATALOG NUMBER: EPH-LS-08-0530N-57-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	3.9	7.8	13.8	20.2	36.2	73.9	133.5	222.3	355.7	531.2
-25°	0.0	3.8	7.6	13.4	19.8	34.2	68.0	123.9	203.6	325.3	490.2
-27.5°	0.0	3.7	7.4	13.0	19.2	32.0	61.6	113.5	183.2	295.5	452.5
-30°	0.0	3.6	7.3	12.6	18.6	29.6	54.7	102.2	166.7	270.4	412.1
-32.5°	0.0	3.5	7.1	12.1	18.0	27.0	47.2	92.6	152.7	243.3	368.7
-35°	0.0	3.4	6.9	11.6	17.3	24.3	42.5	83.2	137.7	214.5	322.4
-37.5°	0.0	3.3	6.7	11.0	16.6	22.1	39.0	73.2	121.8	183.9	282.5
-40°	0.0	3.2	6.4	10.5	15.8	21.1	35.3	62.6	105.0	161.2	246.4
-42.5°	0.0	3.1	6.2	9.9	15.0	20.1	31.4	51.5	90.7	141.3	208.6
-45°	0.0	3.0	5.9	9.2	14.1	19.0	27.3	42.8	77.4	120.5	171.5
-47.5°	0.0	2.8	5.7	8.6	13.3	17.9	23.0	37.8	63.5	98.9	147.4
-50°	0.0	2.7	5.4	8.1	12.3	16.8	21.2	32.7	49.2	82.7	122.4
-52.5°	0.0	2.6	5.1	7.7	11.4	15.6	19.8	27.3	40.5	66.0	97.3
-55°	0.0	2.4	4.8	7.2	10.4	14.4	18.3	22.2	34.2	48.7	78.1
-57.5°	0.0	2.3	4.5	6.8	9.4	13.1	16.8	20.4	27.7	39.1	58.4
-60°	0.0	2.1	4.2	6.3	8.4	11.8	15.2	18.6	22.0	31.6	42.1
-62.5°	0.0	1.9	3.9	5.8	7.7	10.5	13.6	16.7	19.8	24.0	33.6
-65°	0.0	1.8	3.5	5.3	7.1	9.1	12.0	14.8	17.7	20.5	25.0
-67.5°	0.0	1.6	3.2	4.8	6.4	8.0	10.3	12.9	15.5	18.0	20.5
-70°	0.0	1.4	2.9	4.3	5.7	7.1	8.6	10.9	13.2	15.5	17.7
-72.5°	0.0	1.3	2.5	3.8	5.0	6.3	7.5	8.9	10.9	12.9	14.8
-75°	0.0	1.1	2.2	3.3	4.3	5.4	6.5	7.5	8.6	10.3	12.0
-77.5°	0.0	0.9	1.8	2.7	3.6	4.5	5.4	6.3	7.1	8.0	9.1
-80°	0.0	0.7	1.5	2.2	2.9	3.6	4.3	5.0	5.7	6.4	7.1
-82.5°	0.0	0.5	1.1	1.6	2.2	2.7	3.3	3.8	4.3	4.8	5.3
-85°	0.0	0.4	0.7	1.1	1.5	1.8	2.2	2.5	2.9	3.2	3.5
-87.5°	0.0	0.2	0.4	0.5	0.7	0.9	1.1	1.3	1.4	1.6	1.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731267 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	2.1	2.3	2.4	2.6	2.7	2.8	3.0	3.1	3.2	3.3
85°	3.9	4.2	4.5	4.8	5.1	5.4	5.7	5.9	6.2	6.4	6.7
82.5°	5.8	6.3	6.8	7.2	7.7	8.1	8.6	9.2	9.9	10.5	11.0
80°	7.7	8.4	9.4	10.4	11.4	12.3	13.3	14.1	15.0	15.8	16.6
77.5°	10.5	11.8	13.1	14.4	15.6	16.8	17.9	19.0	20.1	21.1	22.1
75°	13.6	15.2	16.8	18.3	19.8	21.2	23.0	27.3	31.4	35.3	39.0
72.5°	16.7	18.6	20.4	22.2	27.3	32.7	37.8	42.8	51.5	62.6	73.2
70°	19.8	22.0	27.7	34.2	40.5	49.2	63.5	77.4	90.7	105.0	121.8
67.5°	24.0	31.6	39.1	48.7	66.0	82.7	98.9	120.5	141.3	161.2	183.9
65°	33.6	42.1	58.4	78.1	97.3	122.4	147.4	171.5	208.6	246.4	282.5
62.5°	43.1	63.3	85.5	110.1	139.4	167.8	209.7	255.0	298.6	356.4	413.6
60°	63.3	87.9	117.0	149.7	186.3	239.1	290.3	355.7	424.1	490.2	565.8
57.5°	85.5	117.0	153.1	198.1	256.9	318.7	398.5	475.7	562.8	649.0	733.7
55°	110.1	149.7	198.1	262.8	335.9	424.4	514.9	615.3	712.5	816.2	915.6
52.5°	139.4	186.3	256.9	335.9	433.0	536.0	647.2	760.0	876.0	986.7	1089.6
50°	167.8	239.1	318.7	424.4	536.0	657.8	783.9	912.2	1033.4	1148.6	1244.4
47.5°	209.7	290.3	398.5	514.9	647.2	783.9	924.4	1057.0	1184.3	1281.2	1371.6
45°	255.0	355.7	475.7	615.3	760.0	912.2	1057.0	1196.3	1299.7	1394.9	1470.0
42.5°	298.6	424.1	562.8	712.5	876.0	1033.4	1184.3	1299.7	1402.3	1484.9	1579.3
40°	356.4	490.2	649.0	816.2	986.7	1148.6	1281.2	1394.9	1484.9	1589.4	1701.4
37.5°	413.6	565.8	733.7	915.6	1089.6	1244.4	1371.6	1470.0	1579.3	1701.4	1866.3
35°	468.0	637.7	821.0	1008.3	1187.9	1325.2	1440.4	1549.2	1680.9	1851.5	2021.7
32.5°	525.6	705.6	903.6	1094.5	1261.2	1396.7	1504.5	1640.2	1807.3	1994.7	2160.4
30°	583.6	776.1	980.3	1175.7	1328.4	1453.1	1580.1	1734.5	1937.6	2119.0	2324.4
27.5°	637.7	842.3	1050.0	1238.6	1388.4	1506.0	1655.7	1849.2	2051.0	2247.2	2496.8
25°	687.6	903.6	1114.5	1292.4	1433.8	1566.8	1733.9	1956.1	2153.7	2398.6	3324.3
22.5°	735.8	959.6	1173.7	1341.7	1475.6	1626.8	1825.5	2046.1	2264.2	2573.7	4268.9
20°	781.7	1008.3	1219.9	1384.6	1513.5	1681.3	1908.8	2126.6	2383.5	3379.6	5457.0
17.5°	822.5	1051.7	1256.4	1415.6	1556.4	1739.6	1982.3	2198.9	2490.9	4106.6	6682.1
15°	858.2	1089.6	1288.3	1442.8	1595.7	1800.1	2041.0	2283.0	2866.3	4852.7	7774.0
12.5°	888.6	1122.0	1315.5	1466.0	1629.3	1851.8	2091.3	2358.1	3376.5	5716.9	8881.0
10°	913.6	1148.6	1337.9	1485.2	1657.1	1894.5	2132.8	2420.2	3799.7	6434.9	9802.8
7.5°	933.2	1169.4	1355.4	1500.1	1678.8	1928.0	2165.5	2469.0	4132.6	7000.5	10530.3
5°	947.2	1184.3	1368.0	1510.9	1694.4	1952.1	2188.9	2504.1	4372.3	7408.4	11055.8
2.5°	955.6	1193.3	1375.6	1517.3	1703.8	1966.6	2203.1	2525.3	4517.0	7654.8	11373.5
0°	958.4	1196.3	1378.1	1519.5	1706.9	1971.4	2207.8	2532.4	4565.4	7737.2	11479.8
-2.5°	955.6	1193.3	1375.6	1517.3	1703.8	1966.6	2203.1	2525.3	4517.0	7654.8	11373.5
-5°	947.2	1184.3	1368.0	1510.9	1694.4	1952.1	2188.9	2504.1	4372.3	7408.4	11055.8
-7.5°	933.2	1169.4	1355.4	1500.1	1678.8	1928.0	2165.5	2469.0	4132.6	7000.5	10530.3
-10°	913.6	1148.6	1337.9	1485.2	1657.1	1894.5	2132.8	2420.2	3799.7	6434.9	9802.8
-12.5°	888.6	1122.0	1315.5	1466.0	1629.3	1851.8	2091.3	2358.1	3376.5	5716.9	8881.0
-15°	858.2	1089.6	1288.3	1442.8	1595.7	1800.1	2041.0	2283.0	2866.3	4852.7	7774.0
-17.5°	822.5	1051.7	1256.4	1415.6	1556.4	1739.6	1982.3	2198.9	2490.9	4106.6	6682.1
-20°	781.7	1008.3	1219.9	1384.6	1513.5	1681.3	1908.8	2126.6	2383.5	3379.6	5457.0



REPORT NUMBER: P731267 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	735.8	959.6	1173.7	1341.7	1475.6	1626.8	1825.5	2046.1	2264.2	2573.7	4268.9
-25°	687.6	903.6	1114.5	1292.4	1433.8	1566.8	1733.9	1956.1	2153.7	2398.6	3324.3
-27.5°	637.7	842.3	1050.0	1238.6	1388.4	1506.0	1655.7	1849.2	2051.0	2247.2	2496.8
-30°	583.6	776.1	980.3	1175.7	1328.4	1453.1	1580.1	1734.5	1937.6	2119.0	2324.4
-32.5°	525.6	705.6	903.6	1094.5	1261.2	1396.7	1504.5	1640.2	1807.3	1994.7	2160.4
-35°	468.0	637.7	821.0	1008.3	1187.9	1325.2	1440.4	1549.2	1680.9	1851.5	2021.7
-37.5°	413.6	565.8	733.7	915.6	1089.6	1244.4	1371.6	1470.0	1579.3	1701.4	1866.3
-40°	356.4	490.2	649.0	816.2	986.7	1148.6	1281.2	1394.9	1484.9	1589.4	1701.4
-42.5°	298.6	424.1	562.8	712.5	876.0	1033.4	1184.3	1299.7	1402.3	1484.9	1579.3
-45°	255.0	355.7	475.7	615.3	760.0	912.2	1057.0	1196.3	1299.7	1394.9	1470.0
-47.5°	209.7	290.3	398.5	514.9	647.2	783.9	924.4	1057.0	1184.3	1281.2	1371.6
-50°	167.8	239.1	318.7	424.4	536.0	657.8	783.9	912.2	1033.4	1148.6	1244.4
-52.5°	139.4	186.3	256.9	335.9	433.0	536.0	647.2	760.0	876.0	986.7	1089.6
-55°	110.1	149.7	198.1	262.8	335.9	424.4	514.9	615.3	712.5	816.2	915.6
-57.5°	85.5	117.0	153.1	198.1	256.9	318.7	398.5	475.7	562.8	649.0	733.7
-60°	63.3	87.9	117.0	149.7	186.3	239.1	290.3	355.7	424.1	490.2	565.8
-62.5°	43.1	63.3	85.5	110.1	139.4	167.8	209.7	255.0	298.6	356.4	413.6
-65°	33.6	42.1	58.4	78.1	97.3	122.4	147.4	171.5	208.6	246.4	282.5
-67.5°	24.0	31.6	39.1	48.7	66.0	82.7	98.9	120.5	141.3	161.2	183.9
-70°	19.8	22.0	27.7	34.2	40.5	49.2	63.5	77.4	90.7	105.0	121.8
-72.5°	16.7	18.6	20.4	22.2	27.3	32.7	37.8	42.8	51.5	62.6	73.2
-75°	13.6	15.2	16.8	18.3	19.8	21.2	23.0	27.3	31.4	35.3	39.0
-77.5°	10.5	11.8	13.1	14.4	15.6	16.8	17.9	19.0	20.1	21.1	22.1
-80°	7.7	8.4	9.4	10.4	11.4	12.3	13.3	14.1	15.0	15.8	16.6
-82.5°	5.8	6.3	6.8	7.2	7.7	8.1	8.6	9.2	9.9	10.5	11.0
-85°	3.9	4.2	4.5	4.8	5.1	5.4	5.7	5.9	6.2	6.4	6.7
-87.5°	1.9	2.1	2.3	2.4	2.6	2.7	2.8	3.0	3.1	3.2	3.3
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731267 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.4	3.5	3.6	3.7	3.8	3.9	3.9	4.0	4.1	4.1	4.1
85°	6.9	7.1	7.3	7.4	7.6	7.8	7.9	8.0	8.1	8.2	8.3
82.5°	11.6	12.1	12.6	13.0	13.4	13.8	14.1	14.4	14.7	14.9	15.1
80°	17.3	18.0	18.6	19.2	19.8	20.2	20.7	21.1	21.4	21.7	22.0
77.5°	24.3	27.0	29.6	32.0	34.2	36.2	37.9	39.5	40.9	42.1	43.1
75°	42.5	47.2	54.7	61.6	68.0	73.9	79.2	83.8	87.9	91.4	94.2
72.5°	83.2	92.6	102.2	113.5	123.9	133.5	142.1	149.7	156.3	162.0	166.6
70°	137.7	152.7	166.7	183.2	203.6	222.3	239.1	254.1	267.1	278.2	287.3
67.5°	214.5	243.3	270.4	295.5	325.3	355.7	383.1	407.5	428.7	446.8	461.7
65°	322.4	368.7	412.1	452.5	490.2	531.2	568.3	601.3	630.1	654.6	674.7
62.5°	468.0	525.6	583.6	637.7	687.6	735.8	781.7	822.5	858.2	888.6	913.6
60°	637.7	705.6	776.1	842.3	903.6	959.6	1008.3	1051.7	1089.6	1122.0	1148.6
57.5°	821.0	903.6	980.3	1050.0	1114.5	1173.7	1219.9	1256.4	1288.3	1315.5	1337.9
55°	1008.3	1094.5	1175.7	1238.6	1292.4	1341.7	1384.6	1415.6	1442.8	1466.0	1485.2
52.5°	1187.9	1261.2	1328.4	1388.4	1433.8	1475.6	1513.5	1556.4	1595.7	1629.3	1657.1
50°	1325.2	1396.7	1453.1	1506.0	1566.8	1626.8	1681.3	1739.6	1800.1	1851.8	1894.5
47.5°	1440.4	1504.5	1580.1	1655.7	1733.9	1825.5	1908.8	1982.3	2041.0	2091.3	2132.8
45°	1549.2	1640.2	1734.5	1849.2	1956.1	2046.1	2126.6	2198.9	2283.0	2358.1	2420.2
42.5°	1680.9	1807.3	1937.6	2051.0	2153.7	2264.2	2383.5	2490.9	2866.3	3376.5	3799.7
40°	1851.5	1994.7	2119.0	2247.2	2398.6	2573.7	3379.6	4106.6	4852.7	5716.9	6434.9
37.5°	2021.7	2160.4	2324.4	2496.8	3324.3	4268.9	5457.0	6682.1	7774.0	8881.0	9802.8
35°	2174.2	2363.4	2684.2	3835.0	5119.3	6700.3	8233.5	9794.4	11182.7	12477.0	13582.7
32.5°	2363.4	2810.1	4093.6	5740.0	7548.4	9513.7	11363.7	13208.0	14864.9	16407.2	17788.7
30°	2684.2	4093.6	5948.8	8021.9	10297.3	12534.9	14725.6	16893.7	18951.5	20816.9	22573.4
27.5°	3835.0	5740.0	8021.9	10561.2	13136.2	15665.7	18361.9	20925.4	23523.5	25802.4	28147.9
25°	5119.3	7548.4	10297.3	13136.2	16025.7	19110.3	22280.5	25394.9	28746.0	31784.1	35424.0
22.5°	6700.3	9513.7	12534.9	15665.7	19110.3	22738.6	26470.8	30573.1	35349.3	40574.1	45842.9
20°	8233.5	11363.7	14725.6	18361.9	22280.5	26470.8	31192.7	37395.1	44100.0	52088.0	59409.7
17.5°	9794.4	13208.0	16893.7	20925.4	25394.9	30573.1	37395.1	45626.9	55325.8	66139.3	76217.3
15°	11182.7	14864.9	18951.5	23523.5	28746.0	35349.3	44100.0	55325.8	68447.5	82492.9	97219.0
12.5°	12477.0	16407.2	20816.9	25802.4	31784.1	40574.1	52088.0	66139.3	82492.9	100795.7	114338.4
10°	13582.7	17788.7	22573.4	28147.9	35424.0	45842.9	59409.7	76217.3	97219.0	114338.4	128291.3
7.5°	14457.4	18884.4	23971.3	30024.2	38679.3	50878.2	66795.3	86904.3	108079.0	125232.8	138951.3
5°	15090.3	19679.1	24987.9	31393.5	41065.4	54590.4	72282.4	95065.4	115670.3	132703.7	146554.0
2.5°	15473.4	20160.9	25605.4	32227.3	42523.0	56867.8	75668.3	100142.6	120450.0	137288.1	151423.9
0°	15601.7	20322.3	25812.5	32507.3	43013.4	57635.7	76813.5	101867.7	122085.1	138808.2	153145.7
-2.5°	15473.4	20160.9	25605.4	32227.3	42523.0	56867.8	75668.3	100142.6	120450.0	137288.1	151423.9
-5°	15090.3	19679.1	24987.9	31393.5	41065.4	54590.4	72282.4	95065.4	115670.3	132703.7	146554.0
-7.5°	14457.4	18884.4	23971.3	30024.2	38679.3	50878.2	66795.3	86904.3	108079.0	125232.8	138951.3
-10°	13582.7	17788.7	22573.4	28147.9	35424.0	45842.9	59409.7	76217.3	97219.0	114338.4	128291.3
-12.5°	12477.0	16407.2	20816.9	25802.4	31784.1	40574.1	52088.0	66139.3	82492.9	100795.7	114338.4
-15°	11182.7	14864.9	18951.5	23523.5	28746.0	35349.3	44100.0	55325.8	68447.5	82492.9	97219.0
-17.5°	9794.4	13208.0	16893.7	20925.4	25394.9	30573.1	37395.1	45626.9	55325.8	66139.3	76217.3
-20°	8233.5	11363.7	14725.6	18361.9	22280.5	26470.8	31192.7	37395.1	44100.0	52088.0	59409.7



REPORT NUMBER: P731267 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	6700.3	9513.7	12534.9	15665.7	19110.3	22738.6	26470.8	30573.1	35349.3	40574.1	45842.9
-25°	5119.3	7548.4	10297.3	13136.2	16025.7	19110.3	22280.5	25394.9	28746.0	31784.1	35424.0
-27.5°	3835.0	5740.0	8021.9	10561.2	13136.2	15665.7	18361.9	20925.4	23523.5	25802.4	28147.9
-30°	2684.2	4093.6	5948.8	8021.9	10297.3	12534.9	14725.6	16893.7	18951.5	20816.9	22573.4
-32.5°	2363.4	2810.1	4093.6	5740.0	7548.4	9513.7	11363.7	13208.0	14864.9	16407.2	17788.7
-35°	2174.2	2363.4	2684.2	3835.0	5119.3	6700.3	8233.5	9794.4	11182.7	12477.0	13582.7
-37.5°	2021.7	2160.4	2324.4	2496.8	3324.3	4268.9	5457.0	6682.1	7774.0	8881.0	9802.8
-40°	1851.5	1994.7	2119.0	2247.2	2398.6	2573.7	3379.6	4106.6	4852.7	5716.9	6434.9
-42.5°	1680.9	1807.3	1937.6	2051.0	2153.7	2264.2	2383.5	2490.9	2866.3	3376.5	3799.7
-45°	1549.2	1640.2	1734.5	1849.2	1956.1	2046.1	2126.6	2198.9	2283.0	2358.1	2420.2
-47.5°	1440.4	1504.5	1580.1	1655.7	1733.9	1825.5	1908.8	1982.3	2041.0	2091.3	2132.8
-50°	1325.2	1396.7	1453.1	1506.0	1566.8	1626.8	1681.3	1739.6	1800.1	1851.8	1894.5
-52.5°	1187.9	1261.2	1328.4	1388.4	1433.8	1475.6	1513.5	1556.4	1595.7	1629.3	1657.1
-55°	1008.3	1094.5	1175.7	1238.6	1292.4	1341.7	1384.6	1415.6	1442.8	1466.0	1485.2
-57.5°	821.0	903.6	980.3	1050.0	1114.5	1173.7	1219.9	1256.4	1288.3	1315.5	1337.9
-60°	637.7	705.6	776.1	842.3	903.6	959.6	1008.3	1051.7	1089.6	1122.0	1148.6
-62.5°	468.0	525.6	583.6	637.7	687.6	735.8	781.7	822.5	858.2	888.6	913.6
-65°	322.4	368.7	412.1	452.5	490.2	531.2	568.3	601.3	630.1	654.6	674.7
-67.5°	214.5	243.3	270.4	295.5	325.3	355.7	383.1	407.5	428.7	446.8	461.7
-70°	137.7	152.7	166.7	183.2	203.6	222.3	239.1	254.1	267.1	278.2	287.3
-72.5°	83.2	92.6	102.2	113.5	123.9	133.5	142.1	149.7	156.3	162.0	166.6
-75°	42.5	47.2	54.7	61.6	68.0	73.9	79.2	83.8	87.9	91.4	94.2
-77.5°	24.3	27.0	29.6	32.0	34.2	36.2	37.9	39.5	40.9	42.1	43.1
-80°	17.3	18.0	18.6	19.2	19.8	20.2	20.7	21.1	21.4	21.7	22.0
-82.5°	11.6	12.1	12.6	13.0	13.4	13.8	14.1	14.4	14.7	14.9	15.1
-85°	6.9	7.1	7.3	7.4	7.6	7.8	7.9	8.0	8.1	8.2	8.3
-87.5°	3.4	3.5	3.6	3.7	3.8	3.9	3.9	4.0	4.1	4.1	4.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731267 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.1	4.1	4.1	4.0
85°	8.3	8.4	8.4	8.4	8.4	8.4	8.3	8.3	8.2	8.1	8.0
82.5°	15.2	15.3	15.4	15.4	15.4	15.3	15.2	15.1	14.9	14.7	14.4
80°	22.2	22.3	22.4	22.4	22.4	22.3	22.2	22.0	21.7	21.4	21.1
77.5°	43.8	44.4	44.7	44.8	44.7	44.4	43.8	43.1	42.1	40.9	39.5
75°	96.4	98.0	99.0	99.3	99.0	98.0	96.4	94.2	91.4	87.9	83.8
72.5°	170.2	172.8	174.4	174.9	174.4	172.8	170.2	166.6	162.0	156.3	149.7
70°	294.4	299.5	302.6	303.6	302.6	299.5	294.4	287.3	278.2	267.1	254.1
67.5°	473.3	481.6	486.6	488.3	486.6	481.6	473.3	461.7	446.8	428.7	407.5
65°	690.5	701.8	708.5	710.8	708.5	701.8	690.5	674.7	654.6	630.1	601.3
62.5°	933.2	947.2	955.6	958.4	955.6	947.2	933.2	913.6	888.6	858.2	822.5
60°	1169.4	1184.3	1193.3	1196.3	1193.3	1184.3	1169.4	1148.6	1122.0	1089.6	1051.7
57.5°	1355.4	1368.0	1375.6	1378.1	1375.6	1368.0	1355.4	1337.9	1315.5	1288.3	1256.4
55°	1500.1	1510.9	1517.3	1519.5	1517.3	1510.9	1500.1	1485.2	1466.0	1442.8	1415.6
52.5°	1678.8	1694.4	1703.8	1706.9	1703.8	1694.4	1678.8	1657.1	1629.3	1595.7	1556.4
50°	1928.0	1952.1	1966.6	1971.4	1966.6	1952.1	1928.0	1894.5	1851.8	1800.1	1739.6
47.5°	2165.5	2188.9	2203.1	2207.8	2203.1	2188.9	2165.5	2132.8	2091.3	2041.0	1982.3
45°	2469.0	2504.1	2525.3	2532.4	2525.3	2504.1	2469.0	2420.2	2358.1	2283.0	2198.9
42.5°	4132.6	4372.3	4517.0	4565.4	4517.0	4372.3	4132.6	3799.7	3376.5	2866.3	2490.9
40°	7000.5	7408.4	7654.8	7737.2	7654.8	7408.4	7000.5	6434.9	5716.9	4852.7	4106.6
37.5°	10530.3	11055.8	11373.5	11479.8	11373.5	11055.8	10530.3	9802.8	8881.0	7774.0	6682.1
35°	14457.4	15090.3	15473.4	15601.7	15473.4	15090.3	14457.4	13582.7	12477.0	11182.7	9794.4
32.5°	18884.4	19679.1	20160.9	20322.3	20160.9	19679.1	18884.4	17788.7	16407.2	14864.9	13208.0
30°	23971.3	24987.9	25605.4	25812.5	25605.4	24987.9	23971.3	22573.4	20816.9	18951.5	16893.7
27.5°	30024.2	31393.5	32227.3	32507.3	32227.3	31393.5	30024.2	28147.9	25802.4	23523.5	20925.4
25°	38679.3	41065.4	42523.0	43013.4	42523.0	41065.4	38679.3	35424.0	31784.1	28746.0	25394.9
22.5°	50878.2	54590.4	56867.8	57635.7	56867.8	54590.4	50878.2	45842.9	40574.1	35349.3	30573.1
20°	66795.3	72282.4	75668.3	76813.5	75668.3	72282.4	66795.3	59409.7	52088.0	44100.0	37395.1
17.5°	86904.3	95065.4	100142.6	101867.7	100142.6	95065.4	86904.3	76217.3	66139.3	55325.8	45626.9
15°	108079.0	115670.3	120450.0	122085.1	120450.0	115670.3	108079.0	97219.0	82492.9	68447.5	55325.8
12.5°	125232.8	132703.7	137288.1	138808.2	137288.1	132703.7	125232.8	114338.4	100795.7	82492.9	66139.3
10°	138951.3	146554.0	151423.9	153145.7	151423.9	146554.0	138951.3	128291.3	114338.4	97219.0	76217.3
7.5°	149803.6	158384.9	163582.4	165432.2	163582.4	158384.9	149803.6	138951.3	125232.8	108079.0	86904.3
5°	158384.9	167419.4	173571.2	175736.0	173571.2	167419.4	158384.9	146554.0	132703.7	115670.3	95065.4
2.5°	163582.4	173571.2	179513.9	181221.3	179513.9	173571.2	163582.4	151423.9	137288.1	120450.0	100142.6
0°	165432.2	175736.0	181221.3	181998.5	181221.3	175736.0	165432.2	153145.7	138808.2	122085.1	101867.7
-2.5°	163582.4	173571.2	179513.9	181221.3	179513.9	173571.2	163582.4	151423.9	137288.1	120450.0	100142.6
-5°	158384.9	167419.4	173571.2	175736.0	173571.2	167419.4	158384.9	146554.0	132703.7	115670.3	95065.4
-7.5°	149803.6	158384.9	163582.4	165432.2	163582.4	158384.9	149803.6	138951.3	125232.8	108079.0	86904.3
-10°	138951.3	146554.0	151423.9	153145.7	151423.9	146554.0	138951.3	128291.3	114338.4	97219.0	76217.3
-12.5°	125232.8	132703.7	137288.1	138808.2	137288.1	132703.7	125232.8	114338.4	100795.7	82492.9	66139.3
-15°	108079.0	115670.3	120450.0	122085.1	120450.0	115670.3	108079.0	97219.0	82492.9	68447.5	55325.8
-17.5°	86904.3	95065.4	100142.6	101867.7	100142.6	95065.4	86904.3	76217.3	66139.3	55325.8	45626.9
-20°	66795.3	72282.4	75668.3	76813.5	75668.3	72282.4	66795.3	59409.7	52088.0	44100.0	37395.1



REPORT NUMBER: P731267 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	50878.2	54590.4	56867.8	57635.7	56867.8	54590.4	50878.2	45842.9	40574.1	35349.3	30573.1
-25°	38679.3	41065.4	42523.0	43013.4	42523.0	41065.4	38679.3	35424.0	31784.1	28746.0	25394.9
-27.5°	30024.2	31393.5	32227.3	32507.3	32227.3	31393.5	30024.2	28147.9	25802.4	23523.5	20925.4
-30°	23971.3	24987.9	25605.4	25812.5	25605.4	24987.9	23971.3	22573.4	20816.9	18951.5	16893.7
-32.5°	18884.4	19679.1	20160.9	20322.3	20160.9	19679.1	18884.4	17788.7	16407.2	14864.9	13208.0
-35°	14457.4	15090.3	15473.4	15601.7	15473.4	15090.3	14457.4	13582.7	12477.0	11182.7	9794.4
-37.5°	10530.3	11055.8	11373.5	11479.8	11373.5	11055.8	10530.3	9802.8	8881.0	7774.0	6682.1
-40°	7000.5	7408.4	7654.8	7737.2	7654.8	7408.4	7000.5	6434.9	5716.9	4852.7	4106.6
-42.5°	4132.6	4372.3	4517.0	4565.4	4517.0	4372.3	4132.6	3799.7	3376.5	2866.3	2490.9
-45°	2469.0	2504.1	2525.3	2532.4	2525.3	2504.1	2469.0	2420.2	2358.1	2283.0	2198.9
-47.5°	2165.5	2188.9	2203.1	2207.8	2203.1	2188.9	2165.5	2132.8	2091.3	2041.0	1982.3
-50°	1928.0	1952.1	1966.6	1971.4	1966.6	1952.1	1928.0	1894.5	1851.8	1800.1	1739.6
-52.5°	1678.8	1694.4	1703.8	1706.9	1703.8	1694.4	1678.8	1657.1	1629.3	1595.7	1556.4
-55°	1500.1	1510.9	1517.3	1519.5	1517.3	1510.9	1500.1	1485.2	1466.0	1442.8	1415.6
-57.5°	1355.4	1368.0	1375.6	1378.1	1375.6	1368.0	1355.4	1337.9	1315.5	1288.3	1256.4
-60°	1169.4	1184.3	1193.3	1196.3	1193.3	1184.3	1169.4	1148.6	1122.0	1089.6	1051.7
-62.5°	933.2	947.2	955.6	958.4	955.6	947.2	933.2	913.6	888.6	858.2	822.5
-65°	690.5	701.8	708.5	710.8	708.5	701.8	690.5	674.7	654.6	630.1	601.3
-67.5°	473.3	481.6	486.6	488.3	486.6	481.6	473.3	461.7	446.8	428.7	407.5
-70°	294.4	299.5	302.6	303.6	302.6	299.5	294.4	287.3	278.2	267.1	254.1
-72.5°	170.2	172.8	174.4	174.9	174.4	172.8	170.2	166.6	162.0	156.3	149.7
-75°	96.4	98.0	99.0	99.3	99.0	98.0	96.4	94.2	91.4	87.9	83.8
-77.5°	43.8	44.4	44.7	44.8	44.7	44.4	43.8	43.1	42.1	40.9	39.5
-80°	22.2	22.3	22.4	22.4	22.4	22.3	22.2	22.0	21.7	21.4	21.1
-82.5°	15.2	15.3	15.4	15.4	15.4	15.3	15.2	15.1	14.9	14.7	14.4
-85°	8.3	8.4	8.4	8.4	8.4	8.4	8.3	8.3	8.2	8.1	8.0
-87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.1	4.1	4.1	4.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731267 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	3.9	3.8	3.7	3.6	3.5	3.4	3.3	3.2	3.1	3.0
85°	7.9	7.8	7.6	7.4	7.3	7.1	6.9	6.7	6.4	6.2	5.9
82.5°	14.1	13.8	13.4	13.0	12.6	12.1	11.6	11.0	10.5	9.9	9.2
80°	20.7	20.2	19.8	19.2	18.6	18.0	17.3	16.6	15.8	15.0	14.1
77.5°	37.9	36.2	34.2	32.0	29.6	27.0	24.3	22.1	21.1	20.1	19.0
75°	79.2	73.9	68.0	61.6	54.7	47.2	42.5	39.0	35.3	31.4	27.3
72.5°	142.1	133.5	123.9	113.5	102.2	92.6	83.2	73.2	62.6	51.5	42.8
70°	239.1	222.3	203.6	183.2	166.7	152.7	137.7	121.8	105.0	90.7	77.4
67.5°	383.1	355.7	325.3	295.5	270.4	243.3	214.5	183.9	161.2	141.3	120.5
65°	568.3	531.2	490.2	452.5	412.1	368.7	322.4	282.5	246.4	208.6	171.5
62.5°	781.7	735.8	687.6	637.7	583.6	525.6	468.0	413.6	356.4	298.6	255.0
60°	1008.3	959.6	903.6	842.3	776.1	705.6	637.7	565.8	490.2	424.1	355.7
57.5°	1219.9	1173.7	1114.5	1050.0	980.3	903.6	821.0	733.7	649.0	562.8	475.7
55°	1384.6	1341.7	1292.4	1238.6	1175.7	1094.5	1008.3	915.6	816.2	712.5	615.3
52.5°	1513.5	1475.6	1433.8	1388.4	1328.4	1261.2	1187.9	1089.6	986.7	876.0	760.0
50°	1681.3	1626.8	1566.8	1506.0	1453.1	1396.7	1325.2	1244.4	1148.6	1033.4	912.2
47.5°	1908.8	1825.5	1733.9	1655.7	1580.1	1504.5	1440.4	1371.6	1281.2	1184.3	1057.0
45°	2126.6	2046.1	1956.1	1849.2	1734.5	1640.2	1549.2	1470.0	1394.9	1299.7	1196.3
42.5°	2383.5	2264.2	2153.7	2051.0	1937.6	1807.3	1680.9	1579.3	1484.9	1402.3	1299.7
40°	3379.6	2573.7	2398.6	2247.2	2119.0	1994.7	1851.5	1701.4	1589.4	1484.9	1394.9
37.5°	5457.0	4268.9	3324.3	2496.8	2324.4	2160.4	2021.7	1866.3	1701.4	1579.3	1470.0
35°	8233.5	6700.3	5119.3	3835.0	2684.2	2363.4	2174.2	2021.7	1851.5	1680.9	1549.2
32.5°	11363.7	9513.7	7548.4	5740.0	4093.6	2810.1	2363.4	2160.4	1994.7	1807.3	1640.2
30°	14725.6	12534.9	10297.3	8021.9	5948.8	4093.6	2684.2	2324.4	2119.0	1937.6	1734.5
27.5°	18361.9	15665.7	13136.2	10561.2	8021.9	5740.0	3835.0	2496.8	2247.2	2051.0	1849.2
25°	22280.5	19110.3	16025.7	13136.2	10297.3	7548.4	5119.3	3324.3	2398.6	2153.7	1956.1
22.5°	26470.8	22738.6	19110.3	15665.7	12534.9	9513.7	6700.3	4268.9	2573.7	2264.2	2046.1
20°	31192.7	26470.8	22280.5	18361.9	14725.6	11363.7	8233.5	5457.0	3379.6	2383.5	2126.6
17.5°	37395.1	30573.1	25394.9	20925.4	16893.7	13208.0	9794.4	6682.1	4106.6	2490.9	2198.9
15°	44100.0	35349.3	28746.0	23523.5	18951.5	14864.9	11182.7	7774.0	4852.7	2866.3	2283.0
12.5°	52088.0	40574.1	31784.1	25802.4	20816.9	16407.2	12477.0	8881.0	5716.9	3376.5	2358.1
10°	59409.7	45842.9	35424.0	28147.9	22573.4	17788.7	13582.7	9802.8	6434.9	3799.7	2420.2
7.5°	66795.3	50878.2	38679.3	30024.2	23971.3	18884.4	14457.4	10530.3	7000.5	4132.6	2469.0
5°	72282.4	54590.4	41065.4	31393.5	24987.9	19679.1	15090.3	11055.8	7408.4	4372.3	2504.1
2.5°	75668.3	56867.8	42523.0	32227.3	25605.4	20160.9	15473.4	11373.5	7654.8	4517.0	2525.3
0°	76813.5	57635.7	43013.4	32507.3	25812.5	20322.3	15601.7	11479.8	7737.2	4565.4	2532.4
-2.5°	75668.3	56867.8	42523.0	32227.3	25605.4	20160.9	15473.4	11373.5	7654.8	4517.0	2525.3
-5°	72282.4	54590.4	41065.4	31393.5	24987.9	19679.1	15090.3	11055.8	7408.4	4372.3	2504.1
-7.5°	66795.3	50878.2	38679.3	30024.2	23971.3	18884.4	14457.4	10530.3	7000.5	4132.6	2469.0
-10°	59409.7	45842.9	35424.0	28147.9	22573.4	17788.7	13582.7	9802.8	6434.9	3799.7	2420.2
-12.5°	52088.0	40574.1	31784.1	25802.4	20816.9	16407.2	12477.0	8881.0	5716.9	3376.5	2358.1
-15°	44100.0	35349.3	28746.0	23523.5	18951.5	14864.9	11182.7	7774.0	4852.7	2866.3	2283.0
-17.5°	37395.1	30573.1	25394.9	20925.4	16893.7	13208.0	9794.4	6682.1	4106.6	2490.9	2198.9
-20°	31192.7	26470.8	22280.5	18361.9	14725.6	11363.7	8233.5	5457.0	3379.6	2383.5	2126.6



REPORT NUMBER: P731267 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	26470.8	22738.6	19110.3	15665.7	12534.9	9513.7	6700.3	4268.9	2573.7	2264.2	2046.1
-25°	22280.5	19110.3	16025.7	13136.2	10297.3	7548.4	5119.3	3324.3	2398.6	2153.7	1956.1
-27.5°	18361.9	15665.7	13136.2	10561.2	8021.9	5740.0	3835.0	2496.8	2247.2	2051.0	1849.2
-30°	14725.6	12534.9	10297.3	8021.9	5948.8	4093.6	2684.2	2324.4	2119.0	1937.6	1734.5
-32.5°	11363.7	9513.7	7548.4	5740.0	4093.6	2810.1	2363.4	2160.4	1994.7	1807.3	1640.2
-35°	8233.5	6700.3	5119.3	3835.0	2684.2	2363.4	2174.2	2021.7	1851.5	1680.9	1549.2
-37.5°	5457.0	4268.9	3324.3	2496.8	2324.4	2160.4	2021.7	1866.3	1701.4	1579.3	1470.0
-40°	3379.6	2573.7	2398.6	2247.2	2119.0	1994.7	1851.5	1701.4	1589.4	1484.9	1394.9
-42.5°	2383.5	2264.2	2153.7	2051.0	1937.6	1807.3	1680.9	1579.3	1484.9	1402.3	1299.7
-45°	2126.6	2046.1	1956.1	1849.2	1734.5	1640.2	1549.2	1470.0	1394.9	1299.7	1196.3
-47.5°	1908.8	1825.5	1733.9	1655.7	1580.1	1504.5	1440.4	1371.6	1281.2	1184.3	1057.0
-50°	1681.3	1626.8	1566.8	1506.0	1453.1	1396.7	1325.2	1244.4	1148.6	1033.4	912.2
-52.5°	1513.5	1475.6	1433.8	1388.4	1328.4	1261.2	1187.9	1089.6	986.7	876.0	760.0
-55°	1384.6	1341.7	1292.4	1238.6	1175.7	1094.5	1008.3	915.6	816.2	712.5	615.3
-57.5°	1219.9	1173.7	1114.5	1050.0	980.3	903.6	821.0	733.7	649.0	562.8	475.7
-60°	1008.3	959.6	903.6	842.3	776.1	705.6	637.7	565.8	490.2	424.1	355.7
-62.5°	781.7	735.8	687.6	637.7	583.6	525.6	468.0	413.6	356.4	298.6	255.0
-65°	568.3	531.2	490.2	452.5	412.1	368.7	322.4	282.5	246.4	208.6	171.5
-67.5°	383.1	355.7	325.3	295.5	270.4	243.3	214.5	183.9	161.2	141.3	120.5
-70°	239.1	222.3	203.6	183.2	166.7	152.7	137.7	121.8	105.0	90.7	77.4
-72.5°	142.1	133.5	123.9	113.5	102.2	92.6	83.2	73.2	62.6	51.5	42.8
-75°	79.2	73.9	68.0	61.6	54.7	47.2	42.5	39.0	35.3	31.4	27.3
-77.5°	37.9	36.2	34.2	32.0	29.6	27.0	24.3	22.1	21.1	20.1	19.0
-80°	20.7	20.2	19.8	19.2	18.6	18.0	17.3	16.6	15.8	15.0	14.1
-82.5°	14.1	13.8	13.4	13.0	12.6	12.1	11.6	11.0	10.5	9.9	9.2
-85°	7.9	7.8	7.6	7.4	7.3	7.1	6.9	6.7	6.4	6.2	5.9
-87.5°	3.9	3.9	3.8	3.7	3.6	3.5	3.4	3.3	3.2	3.1	3.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731267 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	2.7	2.6	2.4	2.3	2.1	1.9	1.8	1.6	1.4	1.3
85°	5.7	5.4	5.1	4.8	4.5	4.2	3.9	3.5	3.2	2.9	2.5
82.5°	8.6	8.1	7.7	7.2	6.8	6.3	5.8	5.3	4.8	4.3	3.8
80°	13.3	12.3	11.4	10.4	9.4	8.4	7.7	7.1	6.4	5.7	5.0
77.5°	17.9	16.8	15.6	14.4	13.1	11.8	10.5	9.1	8.0	7.1	6.3
75°	23.0	21.2	19.8	18.3	16.8	15.2	13.6	12.0	10.3	8.6	7.5
72.5°	37.8	32.7	27.3	22.2	20.4	18.6	16.7	14.8	12.9	10.9	8.9
70°	63.5	49.2	40.5	34.2	27.7	22.0	19.8	17.7	15.5	13.2	10.9
67.5°	98.9	82.7	66.0	48.7	39.1	31.6	24.0	20.5	18.0	15.5	12.9
65°	147.4	122.4	97.3	78.1	58.4	42.1	33.6	25.0	20.5	17.7	14.8
62.5°	209.7	167.8	139.4	110.1	85.5	63.3	43.1	33.6	24.0	19.8	16.7
60°	290.3	239.1	186.3	149.7	117.0	87.9	63.3	42.1	31.6	22.0	18.6
57.5°	398.5	318.7	256.9	198.1	153.1	117.0	85.5	58.4	39.1	27.7	20.4
55°	514.9	424.4	335.9	262.8	198.1	149.7	110.1	78.1	48.7	34.2	22.2
52.5°	647.2	536.0	433.0	335.9	256.9	186.3	139.4	97.3	66.0	40.5	27.3
50°	783.9	657.8	536.0	424.4	318.7	239.1	167.8	122.4	82.7	49.2	32.7
47.5°	924.4	783.9	647.2	514.9	398.5	290.3	209.7	147.4	98.9	63.5	37.8
45°	1057.0	912.2	760.0	615.3	475.7	355.7	255.0	171.5	120.5	77.4	42.8
42.5°	1184.3	1033.4	876.0	712.5	562.8	424.1	298.6	208.6	141.3	90.7	51.5
40°	1281.2	1148.6	986.7	816.2	649.0	490.2	356.4	246.4	161.2	105.0	62.6
37.5°	1371.6	1244.4	1089.6	915.6	733.7	565.8	413.6	282.5	183.9	121.8	73.2
35°	1440.4	1325.2	1187.9	1008.3	821.0	637.7	468.0	322.4	214.5	137.7	83.2
32.5°	1504.5	1396.7	1261.2	1094.5	903.6	705.6	525.6	368.7	243.3	152.7	92.6
30°	1580.1	1453.1	1328.4	1175.7	980.3	776.1	583.6	412.1	270.4	166.7	102.2
27.5°	1655.7	1506.0	1388.4	1238.6	1050.0	842.3	637.7	452.5	295.5	183.2	113.5
25°	1733.9	1566.8	1433.8	1292.4	1114.5	903.6	687.6	490.2	325.3	203.6	123.9
22.5°	1825.5	1626.8	1475.6	1341.7	1173.7	959.6	735.8	531.2	355.7	222.3	133.5
20°	1908.8	1681.3	1513.5	1384.6	1219.9	1008.3	781.7	568.3	383.1	239.1	142.1
17.5°	1982.3	1739.6	1556.4	1415.6	1256.4	1051.7	822.5	601.3	407.5	254.1	149.7
15°	2041.0	1800.1	1595.7	1442.8	1288.3	1089.6	858.2	630.1	428.7	267.1	156.3
12.5°	2091.3	1851.8	1629.3	1466.0	1315.5	1122.0	888.6	654.6	446.8	278.2	162.0
10°	2132.8	1894.5	1657.1	1485.2	1337.9	1148.6	913.6	674.7	461.7	287.3	166.6
7.5°	2165.5	1928.0	1678.8	1500.1	1355.4	1169.4	933.2	690.5	473.3	294.4	170.2
5°	2188.9	1952.1	1694.4	1510.9	1368.0	1184.3	947.2	701.8	481.6	299.5	172.8
2.5°	2203.1	1966.6	1703.8	1517.3	1375.6	1193.3	955.6	708.5	486.6	302.6	174.4
0°	2207.8	1971.4	1706.9	1519.5	1378.1	1196.3	958.4	710.8	488.3	303.6	174.9
-2.5°	2203.1	1966.6	1703.8	1517.3	1375.6	1193.3	955.6	708.5	486.6	302.6	174.4
-5°	2188.9	1952.1	1694.4	1510.9	1368.0	1184.3	947.2	701.8	481.6	299.5	172.8
-7.5°	2165.5	1928.0	1678.8	1500.1	1355.4	1169.4	933.2	690.5	473.3	294.4	170.2
-10°	2132.8	1894.5	1657.1	1485.2	1337.9	1148.6	913.6	674.7	461.7	287.3	166.6
-12.5°	2091.3	1851.8	1629.3	1466.0	1315.5	1122.0	888.6	654.6	446.8	278.2	162.0
-15°	2041.0	1800.1	1595.7	1442.8	1288.3	1089.6	858.2	630.1	428.7	267.1	156.3
-17.5°	1982.3	1739.6	1556.4	1415.6	1256.4	1051.7	822.5	601.3	407.5	254.1	149.7
-20°	1908.8	1681.3	1513.5	1384.6	1219.9	1008.3	781.7	568.3	383.1	239.1	142.1



REPORT NUMBER: P731267 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1825.5	1626.8	1475.6	1341.7	1173.7	959.6	735.8	531.2	355.7	222.3	133.5
-25°	1733.9	1566.8	1433.8	1292.4	1114.5	903.6	687.6	490.2	325.3	203.6	123.9
-27.5°	1655.7	1506.0	1388.4	1238.6	1050.0	842.3	637.7	452.5	295.5	183.2	113.5
-30°	1580.1	1453.1	1328.4	1175.7	980.3	776.1	583.6	412.1	270.4	166.7	102.2
-32.5°	1504.5	1396.7	1261.2	1094.5	903.6	705.6	525.6	368.7	243.3	152.7	92.6
-35°	1440.4	1325.2	1187.9	1008.3	821.0	637.7	468.0	322.4	214.5	137.7	83.2
-37.5°	1371.6	1244.4	1089.6	915.6	733.7	565.8	413.6	282.5	183.9	121.8	73.2
-40°	1281.2	1148.6	986.7	816.2	649.0	490.2	356.4	246.4	161.2	105.0	62.6
-42.5°	1184.3	1033.4	876.0	712.5	562.8	424.1	298.6	208.6	141.3	90.7	51.5
-45°	1057.0	912.2	760.0	615.3	475.7	355.7	255.0	171.5	120.5	77.4	42.8
-47.5°	924.4	783.9	647.2	514.9	398.5	290.3	209.7	147.4	98.9	63.5	37.8
-50°	783.9	657.8	536.0	424.4	318.7	239.1	167.8	122.4	82.7	49.2	32.7
-52.5°	647.2	536.0	433.0	335.9	256.9	186.3	139.4	97.3	66.0	40.5	27.3
-55°	514.9	424.4	335.9	262.8	198.1	149.7	110.1	78.1	48.7	34.2	22.2
-57.5°	398.5	318.7	256.9	198.1	153.1	117.0	85.5	58.4	39.1	27.7	20.4
-60°	290.3	239.1	186.3	149.7	117.0	87.9	63.3	42.1	31.6	22.0	18.6
-62.5°	209.7	167.8	139.4	110.1	85.5	63.3	43.1	33.6	24.0	19.8	16.7
-65°	147.4	122.4	97.3	78.1	58.4	42.1	33.6	25.0	20.5	17.7	14.8
-67.5°	98.9	82.7	66.0	48.7	39.1	31.6	24.0	20.5	18.0	15.5	12.9
-70°	63.5	49.2	40.5	34.2	27.7	22.0	19.8	17.7	15.5	13.2	10.9
-72.5°	37.8	32.7	27.3	22.2	20.4	18.6	16.7	14.8	12.9	10.9	8.9
-75°	23.0	21.2	19.8	18.3	16.8	15.2	13.6	12.0	10.3	8.6	7.5
-77.5°	17.9	16.8	15.6	14.4	13.1	11.8	10.5	9.1	8.0	7.1	6.3
-80°	13.3	12.3	11.4	10.4	9.4	8.4	7.7	7.1	6.4	5.7	5.0
-82.5°	8.6	8.1	7.7	7.2	6.8	6.3	5.8	5.3	4.8	4.3	3.8
-85°	5.7	5.4	5.1	4.8	4.5	4.2	3.9	3.5	3.2	2.9	2.5
-87.5°	2.8	2.7	2.6	2.4	2.3	2.1	1.9	1.8	1.6	1.4	1.3
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731267 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.9	0.7	0.5	0.4	0.2	0.0
85°	2.2	1.8	1.5	1.1	0.7	0.4	0.0
82.5°	3.3	2.7	2.2	1.6	1.1	0.5	0.0
80°	4.3	3.6	2.9	2.2	1.5	0.7	0.0
77.5°	5.4	4.5	3.6	2.7	1.8	0.9	0.0
75°	6.5	5.4	4.3	3.3	2.2	1.1	0.0
72.5°	7.5	6.3	5.0	3.8	2.5	1.3	0.0
70°	8.6	7.1	5.7	4.3	2.9	1.4	0.0
67.5°	10.3	8.0	6.4	4.8	3.2	1.6	0.0
65°	12.0	9.1	7.1	5.3	3.5	1.8	0.0
62.5°	13.6	10.5	7.7	5.8	3.9	1.9	0.0
60°	15.2	11.8	8.4	6.3	4.2	2.1	0.0
57.5°	16.8	13.1	9.4	6.8	4.5	2.3	0.0
55°	18.3	14.4	10.4	7.2	4.8	2.4	0.0
52.5°	19.8	15.6	11.4	7.7	5.1	2.6	0.0
50°	21.2	16.8	12.3	8.1	5.4	2.7	0.0
47.5°	23.0	17.9	13.3	8.6	5.7	2.8	0.0
45°	27.3	19.0	14.1	9.2	5.9	3.0	0.0
42.5°	31.4	20.1	15.0	9.9	6.2	3.1	0.0
40°	35.3	21.1	15.8	10.5	6.4	3.2	0.0
37.5°	39.0	22.1	16.6	11.0	6.7	3.3	0.0
35°	42.5	24.3	17.3	11.6	6.9	3.4	0.0
32.5°	47.2	27.0	18.0	12.1	7.1	3.5	0.0
30°	54.7	29.6	18.6	12.6	7.3	3.6	0.0
27.5°	61.6	32.0	19.2	13.0	7.4	3.7	0.0
25°	68.0	34.2	19.8	13.4	7.6	3.8	0.0
22.5°	73.9	36.2	20.2	13.8	7.8	3.9	0.0
20°	79.2	37.9	20.7	14.1	7.9	3.9	0.0
17.5°	83.8	39.5	21.1	14.4	8.0	4.0	0.0
15°	87.9	40.9	21.4	14.7	8.1	4.1	0.0
12.5°	91.4	42.1	21.7	14.9	8.2	4.1	0.0
10°	94.2	43.1	22.0	15.1	8.3	4.1	0.0
7.5°	96.4	43.8	22.2	15.2	8.3	4.2	0.0
5°	98.0	44.4	22.3	15.3	8.4	4.2	0.0
2.5°	99.0	44.7	22.4	15.4	8.4	4.2	0.0
0°	99.3	44.8	22.4	15.4	8.4	4.2	0.0
-2.5°	99.0	44.7	22.4	15.4	8.4	4.2	0.0
-5°	98.0	44.4	22.3	15.3	8.4	4.2	0.0
-7.5°	96.4	43.8	22.2	15.2	8.3	4.2	0.0
-10°	94.2	43.1	22.0	15.1	8.3	4.1	0.0
-12.5°	91.4	42.1	21.7	14.9	8.2	4.1	0.0
-15°	87.9	40.9	21.4	14.7	8.1	4.1	0.0
-17.5°	83.8	39.5	21.1	14.4	8.0	4.0	0.0
-20°	79.2	37.9	20.7	14.1	7.9	3.9	0.0



REPORT NUMBER: P731267 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-57-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	73.9	36.2	20.2	13.8	7.8	3.9	0.0
-25°	68.0	34.2	19.8	13.4	7.6	3.8	0.0
-27.5°	61.6	32.0	19.2	13.0	7.4	3.7	0.0
-30°	54.7	29.6	18.6	12.6	7.3	3.6	0.0
-32.5°	47.2	27.0	18.0	12.1	7.1	3.5	0.0
-35°	42.5	24.3	17.3	11.6	6.9	3.4	0.0
-37.5°	39.0	22.1	16.6	11.0	6.7	3.3	0.0
-40°	35.3	21.1	15.8	10.5	6.4	3.2	0.0
-42.5°	31.4	20.1	15.0	9.9	6.2	3.1	0.0
-45°	27.3	19.0	14.1	9.2	5.9	3.0	0.0
-47.5°	23.0	17.9	13.3	8.6	5.7	2.8	0.0
-50°	21.2	16.8	12.3	8.1	5.4	2.7	0.0
-52.5°	19.8	15.6	11.4	7.7	5.1	2.6	0.0
-55°	18.3	14.4	10.4	7.2	4.8	2.4	0.0
-57.5°	16.8	13.1	9.4	6.8	4.5	2.3	0.0
-60°	15.2	11.8	8.4	6.3	4.2	2.1	0.0
-62.5°	13.6	10.5	7.7	5.8	3.9	1.9	0.0
-65°	12.0	9.1	7.1	5.3	3.5	1.8	0.0
-67.5°	10.3	8.0	6.4	4.8	3.2	1.6	0.0
-70°	8.6	7.1	5.7	4.3	2.9	1.4	0.0
-72.5°	7.5	6.3	5.0	3.8	2.5	1.3	0.0
-75°	6.5	5.4	4.3	3.3	2.2	1.1	0.0
-77.5°	5.4	4.5	3.6	2.7	1.8	0.9	0.0
-80°	4.3	3.6	2.9	2.2	1.5	0.7	0.0
-82.5°	3.3	2.7	2.2	1.6	1.1	0.5	0.0
-85°	2.2	1.8	1.5	1.1	0.7	0.4	0.0
-87.5°	1.1	0.9	0.7	0.5	0.4	0.2	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

