

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: P731244 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-40-80-5S-HEG**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731244 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-5)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0530N-40-80-5S-HEG
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 5S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

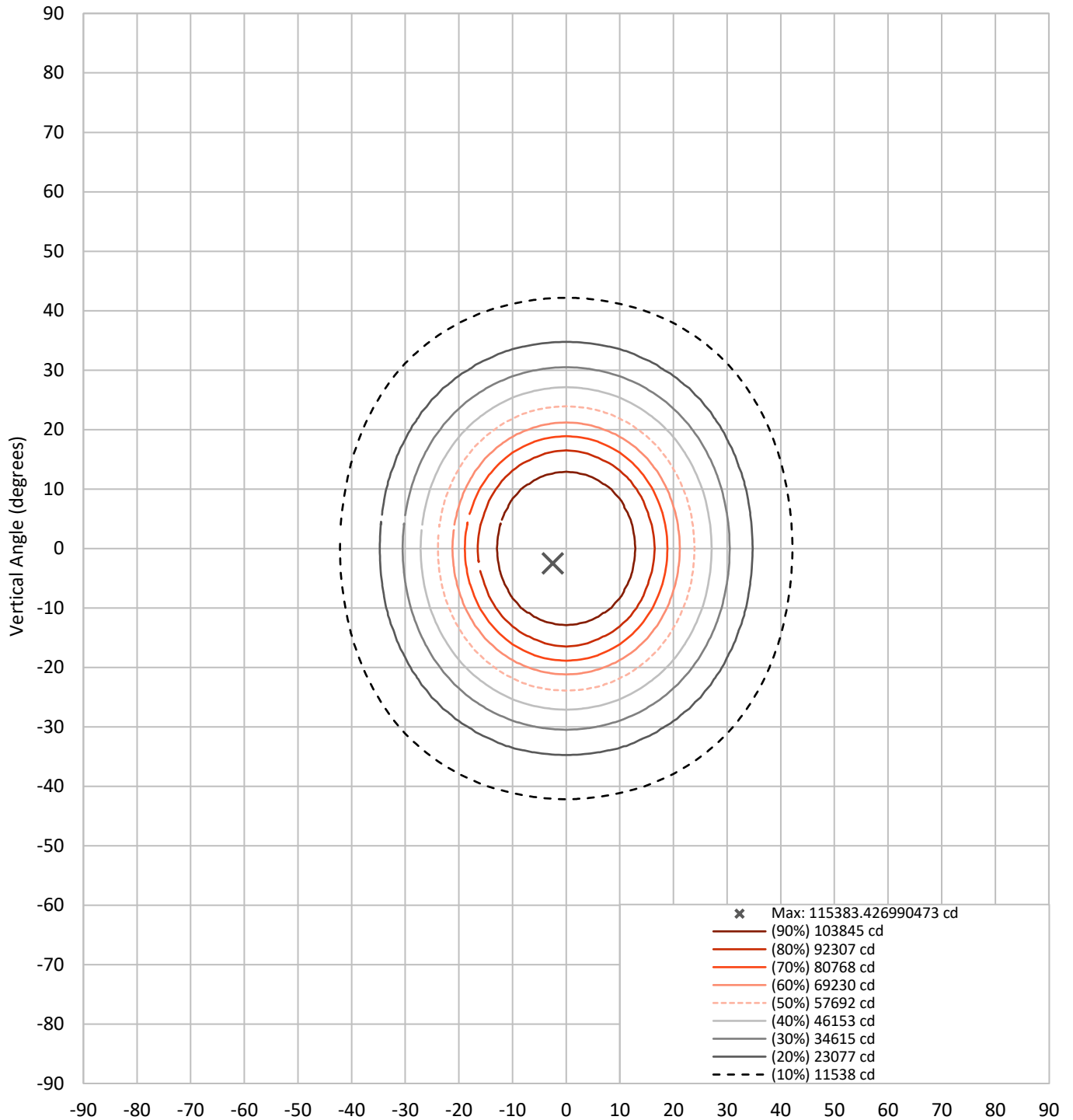
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	84338.3 lumens	Max Intensity:	115383.4 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x -2.5°V
Efficacy:	150.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	47.6°H x 47.6°V	Field Angle (10%):	84.3°H x 84.3°V
Beam Lumens:	47313.7 lumens	Field Lumens:	78582.4 lumens
Beam Efficiency:	56.1%	Field Efficiency:	93.2%

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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Iso-Candela Plot





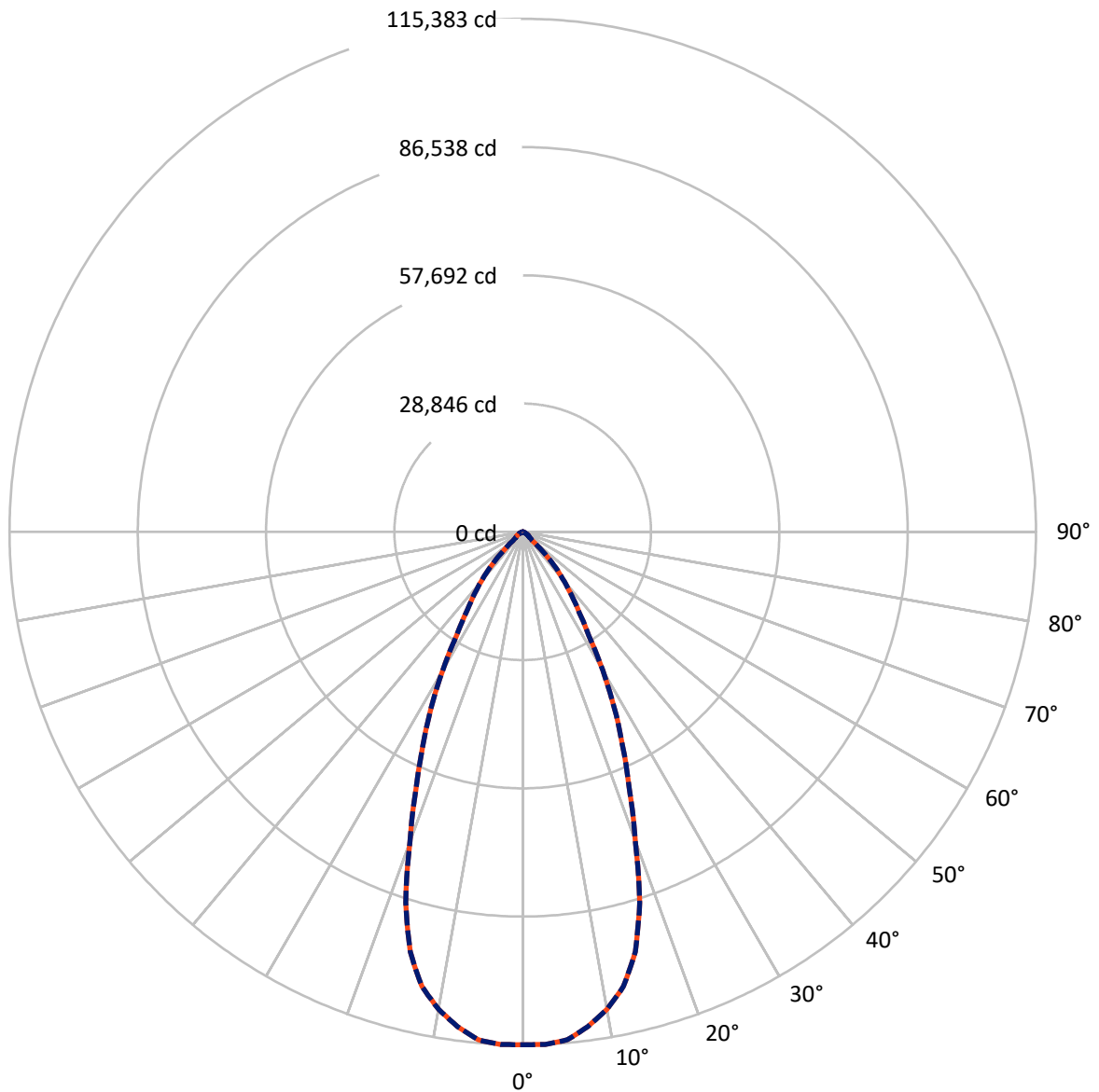
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Lumen Table

90																
80	0.1	0.8		2.7		5.7		7.2		5.7		2.7		0.8		0.1
70																
60	0.4	0.4	1.4	3.7	7.5	12.2	16.5	18.9	18.9	16.5	12.2	7.5	3.7	1.4	0.4	0.4
50		1.1	4.3	11.6	22.7	34.6	43.6	48.5	48.5	43.6	34.6	22.7	11.6	4.3	1.1	
40	0.9	2.2	9.5	24.1	41.6	75.0	152.9	215.2	215.2	152.9	75.0	41.6	24.1	9.5	2.2	0.9
30		4.0	16.1	36.0	104.7	316.8	535.0	685.4	685.4	535.0	316.8	104.7	36.0	16.1	4.0	
20	1.6	5.9	22.2	59.3	287.9	655.0	1172.2	1573.3	1573.3	1172.2	655.0	287.9	59.3	22.2	5.9	1.6
10		7.5	26.2	114.6	456.6	1103.2	2050.0	2793.0	2793.0	2050.0	1103.2	456.6	114.6	26.2	7.5	
0	2.0	8.3	28.2	156.6	568.2	1437.4	2711.6	3384.8	3384.8	2711.6	1437.4	568.2	156.6	28.2	8.3	2.0
-10		8.3	28.2	156.6	568.2	1437.4	2711.6	3384.8	3384.8	2711.6	1437.4	568.2	156.6	28.2	8.3	
-20	1.6	7.5	26.2	114.6	456.6	1103.2	2050.0	2793.0	2793.0	2050.0	1103.2	456.6	114.6	26.2	7.5	1.6
-30		5.9	22.2	59.3	287.9	655.0	1172.2	1573.3	1573.3	1172.2	655.0	287.9	59.3	22.2	5.9	
-40	0.9	4.0	16.1	36.0	104.7	316.8	535.0	685.4	685.4	535.0	316.8	104.7	36.0	16.1	4.0	0.9
-50		2.2	9.5	24.1	41.6	75.0	152.9	215.2	215.2	152.9	75.0	41.6	24.1	9.5	2.2	
-60	0.4	1.1	4.3	11.6	22.7	34.6	43.6	48.5	48.5	43.6	34.6	22.7	11.6	4.3	1.1	0.4
-70		0.4	1.4	3.7	7.5	12.2	16.5	18.9	18.9	16.5	12.2	7.5	3.7	1.4	0.4	
-80																
-90	0.1	0.8		2.7		5.7		7.2		5.7		2.7		0.8		0.1

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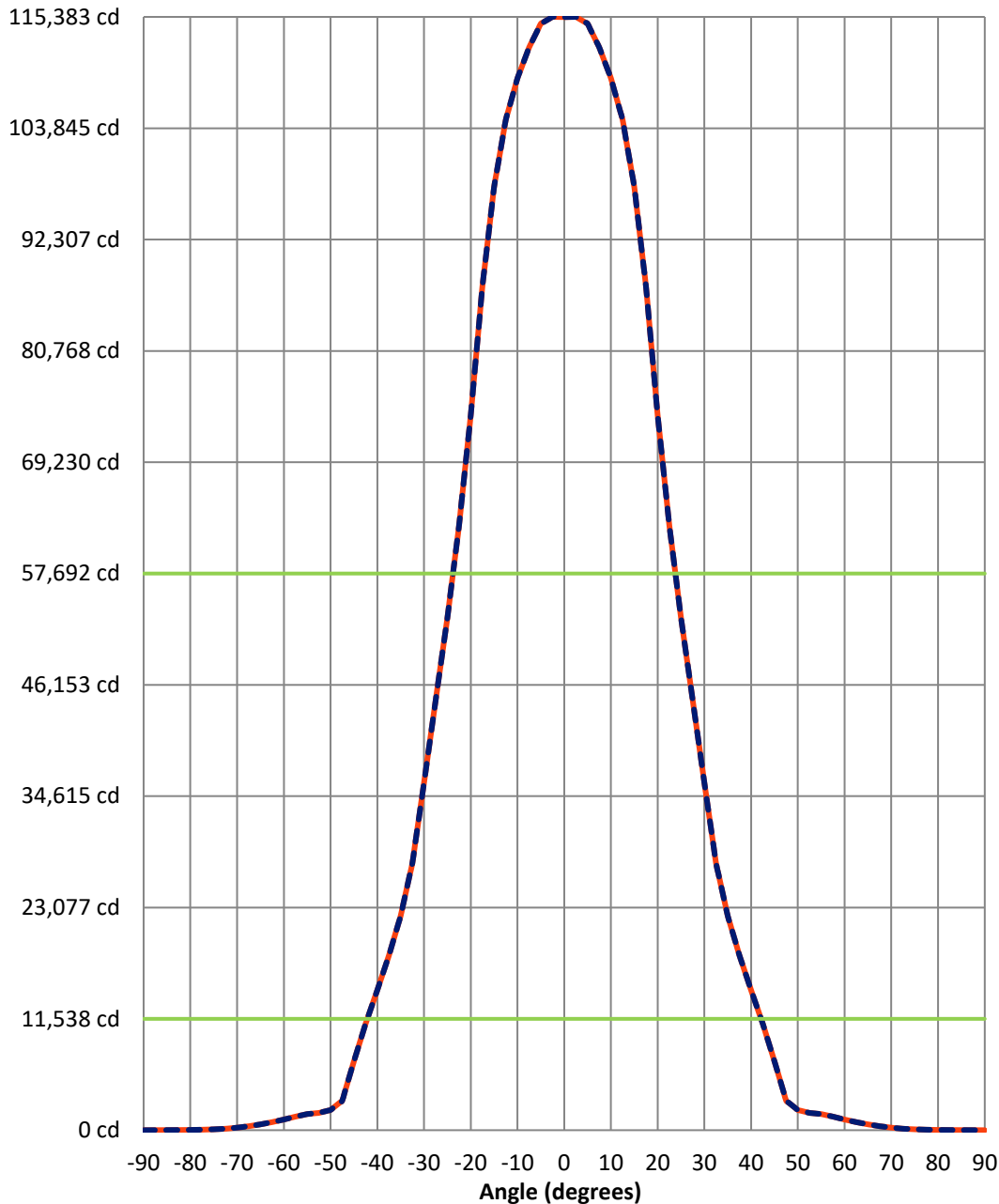
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 47.6°
 V Angle: 47.6°
 Lumens: 47313.7
 Efficiency: 56.1%

Field:
 H Angle: 84.3°
 V Angle: 84.3°
 Lumens: 78582.4
 Efficiency: 93.2%

Spill:
 Lumens: 5755.9
 Efficiency: 6.8%

- Vertical Distribution through -2.5-Deg
- - - Horizontal Distribution through -2.5-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	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.4
85°	0.0	0.5	1.0	1.5	1.9	2.4	2.9	3.4	3.8	4.3	4.7
82.5°	0.0	0.7	1.5	2.2	2.9	3.6	4.3	5.0	5.7	6.4	7.1
80°	0.0	1.0	1.9	2.9	3.9	4.8	5.8	6.7	7.6	8.5	9.4
77.5°	0.0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.5	10.6	11.9
75°	0.0	1.4	2.9	4.3	5.8	7.2	8.6	10.0	11.4	13.1	14.8
72.5°	0.0	1.7	3.4	5.0	6.7	8.4	10.0	11.7	13.7	15.7	17.6
70°	0.0	1.9	3.8	5.7	7.6	9.5	11.4	13.7	16.0	18.3	21.4
67.5°	0.0	2.1	4.3	6.4	8.5	10.6	13.1	15.7	18.3	21.8	25.3
65°	0.0	2.4	4.7	7.1	9.4	11.9	14.8	17.6	21.4	25.3	30.6
62.5°	0.0	2.6	5.2	7.7	10.3	13.3	16.4	20.1	24.4	29.6	39.2
60°	0.0	2.8	5.6	8.4	11.2	14.6	18.0	22.7	27.4	37.2	47.7
57.5°	0.0	3.0	6.0	9.0	12.2	15.9	20.1	25.2	33.3	44.7	60.5
55°	0.0	3.2	6.4	9.6	13.2	17.2	22.3	27.7	39.8	53.3	75.2
52.5°	0.0	3.4	6.8	10.2	14.2	18.5	24.3	32.9	46.1	66.2	89.5
50°	0.0	3.6	7.2	10.8	15.1	20.1	26.3	38.3	53.6	78.7	108.9
47.5°	0.0	3.8	7.6	11.4	16.1	21.8	28.6	43.4	64.4	90.7	128.4
45°	0.0	4.0	7.9	12.0	16.9	23.3	32.9	48.4	74.7	107.5	147.2
42.5°	0.0	4.1	8.3	12.7	17.8	24.8	37.0	55.4	84.6	123.7	179.2
40°	0.0	4.3	8.6	13.3	18.8	26.2	40.9	63.7	95.4	139.1	212.1
37.5°	0.0	4.4	8.9	13.8	19.8	27.6	44.6	71.5	108.5	157.6	243.5
35°	0.0	4.6	9.2	14.4	20.9	29.9	48.1	79.0	120.9	184.3	277.4
32.5°	0.0	4.7	9.4	14.9	21.8	32.6	52.2	86.0	132.5	209.4	315.7
30°	0.0	4.8	9.7	15.4	22.7	35.2	57.7	93.2	143.4	233.0	351.6
27.5°	0.0	5.0	9.9	15.8	23.5	37.6	62.9	102.0	157.0	254.9	385.0
25°	0.0	5.1	10.1	16.2	24.3	39.8	67.7	110.2	174.8	279.8	416.1
22.5°	0.0	5.2	10.3	16.6	25.0	41.8	72.1	117.6	191.1	304.9	451.2
20°	0.0	5.3	10.5	16.9	25.6	43.5	76.0	124.3	205.7	327.6	483.0
17.5°	0.0	5.3	10.7	17.2	26.2	45.1	79.5	130.2	218.8	347.7	511.2
15°	0.0	5.4	10.8	17.5	26.7	46.5	82.5	135.3	230.1	365.3	535.8
12.5°	0.0	5.5	10.9	17.7	27.1	47.7	85.1	139.7	239.8	380.2	556.8
10°	0.0	5.5	11.0	17.9	27.4	48.7	87.2	143.3	247.7	392.5	574.0
7.5°	0.0	5.6	11.1	18.0	27.7	49.4	88.9	146.2	253.9	402.1	587.5
5°	0.0	5.6	11.2	18.1	27.8	50.0	90.1	148.2	258.3	409.0	597.2
2.5°	0.0	5.6	11.2	18.2	28.0	50.3	90.8	149.4	261.0	413.1	603.0
0°	0.0	5.6	11.2	18.2	28.0	50.4	91.0	149.8	261.9	414.5	604.9
-2.5°	0.0	5.6	11.2	18.2	28.0	50.4	91.0	149.8	261.9	414.5	604.9
-5°	0.0	5.6	11.2	18.1	27.8	50.0	90.1	148.2	258.3	409.0	597.2
-7.5°	0.0	5.6	11.1	18.0	27.7	49.4	88.9	146.2	253.9	402.1	587.5
-10°	0.0	5.5	11.0	17.9	27.4	48.7	87.2	143.3	247.7	392.5	574.0
-12.5°	0.0	5.5	10.9	17.7	27.1	47.7	85.1	139.7	239.8	380.2	556.8
-15°	0.0	5.4	10.8	17.5	26.7	46.5	82.5	135.3	230.1	365.3	535.8
-17.5°	0.0	5.3	10.7	17.2	26.2	45.1	79.5	130.2	218.8	347.7	511.2
-20°	0.0	5.3	10.5	16.9	25.6	43.5	76.0	124.3	205.7	327.6	483.0



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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	5.2	10.3	16.6	25.0	41.8	72.1	117.6	191.1	304.9	451.2
-25°	0.0	5.1	10.1	16.2	24.3	39.8	67.7	110.2	174.8	279.8	416.1
-27.5°	0.0	5.0	9.9	15.8	23.5	37.6	62.9	102.0	157.0	254.9	385.0
-30°	0.0	4.8	9.7	15.4	22.7	35.2	57.7	93.2	143.4	233.0	351.6
-32.5°	0.0	4.7	9.4	14.9	21.8	32.6	52.2	86.0	132.5	209.4	315.7
-35°	0.0	4.6	9.2	14.4	20.9	29.9	48.1	79.0	120.9	184.3	277.4
-37.5°	0.0	4.4	8.9	13.8	19.8	27.6	44.6	71.5	108.5	157.6	243.5
-40°	0.0	4.3	8.6	13.3	18.8	26.2	40.9	63.7	95.4	139.1	212.1
-42.5°	0.0	4.1	8.3	12.7	17.8	24.8	37.0	55.4	84.6	123.7	179.2
-45°	0.0	4.0	7.9	12.0	16.9	23.3	32.9	48.4	74.7	107.5	147.2
-47.5°	0.0	3.8	7.6	11.4	16.1	21.8	28.6	43.4	64.4	90.7	128.4
-50°	0.0	3.6	7.2	10.8	15.1	20.1	26.3	38.3	53.6	78.7	108.9
-52.5°	0.0	3.4	6.8	10.2	14.2	18.5	24.3	32.9	46.1	66.2	89.5
-55°	0.0	3.2	6.4	9.6	13.2	17.2	22.3	27.7	39.8	53.3	75.2
-57.5°	0.0	3.0	6.0	9.0	12.2	15.9	20.1	25.2	33.3	44.7	60.5
-60°	0.0	2.8	5.6	8.4	11.2	14.6	18.0	22.7	27.4	37.2	47.7
-62.5°	0.0	2.6	5.2	7.7	10.3	13.3	16.4	20.1	24.4	29.6	39.2
-65°	0.0	2.4	4.7	7.1	9.4	11.9	14.8	17.6	21.4	25.3	30.6
-67.5°	0.0	2.1	4.3	6.4	8.5	10.6	13.1	15.7	18.3	21.8	25.3
-70°	0.0	1.9	3.8	5.7	7.6	9.5	11.4	13.7	16.0	18.3	21.4
-72.5°	0.0	1.7	3.4	5.0	6.7	8.4	10.0	11.7	13.7	15.7	17.6
-75°	0.0	1.4	2.9	4.3	5.8	7.2	8.6	10.0	11.4	13.1	14.8
-77.5°	0.0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.5	10.6	11.9
-80°	0.0	1.0	1.9	2.9	3.9	4.8	5.8	6.7	7.6	8.5	9.4
-82.5°	0.0	0.7	1.5	2.2	2.9	3.6	4.3	5.0	5.7	6.4	7.1
-85°	0.0	0.5	1.0	1.5	1.9	2.4	2.9	3.4	3.8	4.3	4.7
-87.5°	0.0	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.1	4.3	4.4
85°	5.2	5.6	6.0	6.4	6.8	7.2	7.6	7.9	8.3	8.6	8.9
82.5°	7.7	8.4	9.0	9.6	10.2	10.8	11.4	12.0	12.7	13.3	13.8
80°	10.3	11.2	12.2	13.2	14.2	15.1	16.1	16.9	17.8	18.8	19.8
77.5°	13.3	14.6	15.9	17.2	18.5	20.1	21.8	23.3	24.8	26.2	27.6
75°	16.4	18.0	20.1	22.3	24.3	26.3	28.6	32.9	37.0	40.9	44.6
72.5°	20.1	22.7	25.2	27.7	32.9	38.3	43.4	48.4	55.4	63.7	71.5
70°	24.4	27.4	33.3	39.8	46.1	53.6	64.4	74.7	84.6	95.4	108.5
67.5°	29.6	37.2	44.7	53.3	66.2	78.7	90.7	107.5	123.7	139.1	157.6
65°	39.2	47.7	60.5	75.2	89.5	108.9	128.4	147.2	179.2	212.1	243.5
62.5°	48.7	64.2	80.7	99.4	122.2	144.3	180.2	219.6	257.6	305.5	352.8
60°	64.2	82.5	104.7	130.2	159.7	205.7	250.4	304.9	361.5	416.1	480.8
57.5°	80.7	104.7	132.9	170.0	221.2	274.4	340.3	404.1	478.2	552.0	626.4
55°	99.4	130.2	170.0	226.4	288.6	361.7	437.3	523.2	606.5	703.9	797.2
52.5°	122.2	159.7	221.2	288.6	368.8	455.3	550.4	651.1	760.1	869.3	985.7
50°	144.3	205.7	274.4	361.7	455.3	559.5	673.6	794.1	922.2	1052.3	1186.9
47.5°	180.2	250.4	340.3	437.3	550.4	673.6	805.5	948.8	1092.7	1248.7	1400.6
45°	219.6	304.9	404.1	523.2	651.1	794.1	948.8	1106.2	1279.8	1442.9	1582.5
42.5°	257.6	361.5	478.2	606.5	760.1	922.2	1092.7	1279.8	1456.5	1610.3	1712.3
40°	305.5	416.1	552.0	703.9	869.3	1052.3	1248.7	1442.9	1610.3	1718.6	1788.9
37.5°	352.8	480.8	626.4	797.2	985.7	1186.9	1400.6	1582.5	1712.3	1788.9	1976.4
35°	397.7	542.3	708.3	893.8	1096.7	1322.6	1527.5	1693.4	1776.1	1959.3	2306.7
32.5°	446.4	600.5	785.9	991.2	1215.2	1446.1	1646.9	1750.5	1908.3	2194.4	2882.3
30°	496.1	666.2	862.2	1083.0	1328.1	1551.1	1712.8	1824.3	2058.6	2710.5	4568.4
27.5°	542.3	728.4	940.9	1177.3	1430.7	1649.7	1760.3	1956.6	2428.2	3583.0	6769.4
25°	585.0	785.9	1013.8	1267.6	1515.3	1704.5	1823.6	2080.1	2854.8	5515.2	8740.0
22.5°	628.3	838.7	1080.6	1350.4	1593.0	1742.1	1929.3	2407.7	3798.9	7303.2	10548.1
20°	671.4	893.8	1145.8	1423.6	1663.6	1776.3	2025.5	2742.1	5323.0	8845.9	12094.3
17.5°	709.8	942.8	1207.1	1481.4	1697.9	1830.2	2142.8	3042.4	6694.6	10237.5	13438.9
15°	743.3	985.7	1260.6	1532.0	1722.6	1900.0	2386.5	4040.1	7863.2	11431.1	14632.6
12.5°	771.9	1022.2	1306.3	1575.2	1743.7	1959.7	2595.4	4998.3	8840.0	12379.5	15704.5
10°	795.3	1052.3	1344.0	1610.8	1761.1	2009.0	2768.1	5791.8	9650.1	13167.6	16597.1
7.5°	813.7	1075.8	1373.4	1638.7	1774.8	2047.6	2903.6	6414.9	10287.2	13788.3	17301.5
5°	826.9	1092.7	1394.6	1658.7	1784.5	2075.4	3001.0	6863.4	10746.2	14236.1	17810.3
2.5°	834.8	1102.8	1407.3	1670.8	1790.4	2092.1	3059.7	7133.8	11023.1	14506.5	18118.0
0°	837.4	1106.2	1411.5	1674.8	1792.4	2097.7	3079.3	7224.2	11115.7	14596.9	18220.9
-2.5°	834.8	1102.8	1407.3	1670.8	1790.4	2092.1	3059.7	7133.8	11023.1	14506.5	18118.0
-5°	826.9	1092.7	1394.6	1658.7	1784.5	2075.4	3001.0	6863.4	10746.2	14236.1	17810.3
-7.5°	813.7	1075.8	1373.4	1638.7	1774.8	2047.6	2903.6	6414.9	10287.2	13788.3	17301.5
-10°	795.3	1052.3	1344.0	1610.8	1761.1	2009.0	2768.1	5791.8	9650.1	13167.6	16597.1
-12.5°	771.9	1022.2	1306.3	1575.2	1743.7	1959.7	2595.4	4998.3	8840.0	12379.5	15704.5
-15°	743.3	985.7	1260.6	1532.0	1722.6	1900.0	2386.5	4040.1	7863.2	11431.1	14632.6
-17.5°	709.8	942.8	1207.1	1481.4	1697.9	1830.2	2142.8	3042.4	6694.6	10237.5	13438.9
-20°	671.4	893.8	1145.8	1423.6	1663.6	1776.3	2025.5	2742.1	5323.0	8845.9	12094.3



REPORT NUMBER: P731244 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-5S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	628.3	838.7	1080.6	1350.4	1593.0	1742.1	1929.3	2407.7	3798.9	7303.2	10548.1
-25°	585.0	785.9	1013.8	1267.6	1515.3	1704.5	1823.6	2080.1	2854.8	5515.2	8740.0
-27.5°	542.3	728.4	940.9	1177.3	1430.7	1649.7	1760.3	1956.6	2428.2	3583.0	6769.4
-30°	496.1	666.2	862.2	1083.0	1328.1	1551.1	1712.8	1824.3	2058.6	2710.5	4568.4
-32.5°	446.4	600.5	785.9	991.2	1215.2	1446.1	1646.9	1750.5	1908.3	2194.4	2882.3
-35°	397.7	542.3	708.3	893.8	1096.7	1322.6	1527.5	1693.4	1776.1	1959.3	2306.7
-37.5°	352.8	480.8	626.4	797.2	985.7	1186.9	1400.6	1582.5	1712.3	1788.9	1976.4
-40°	305.5	416.1	552.0	703.9	869.3	1052.3	1248.7	1442.9	1610.3	1718.6	1788.9
-42.5°	257.6	361.5	478.2	606.5	760.1	922.2	1092.7	1279.8	1456.5	1610.3	1712.3
-45°	219.6	304.9	404.1	523.2	651.1	794.1	948.8	1106.2	1279.8	1442.9	1582.5
-47.5°	180.2	250.4	340.3	437.3	550.4	673.6	805.5	948.8	1092.7	1248.7	1400.6
-50°	144.3	205.7	274.4	361.7	455.3	559.5	673.6	794.1	922.2	1052.3	1186.9
-52.5°	122.2	159.7	221.2	288.6	368.8	455.3	550.4	651.1	760.1	869.3	985.7
-55°	99.4	130.2	170.0	226.4	288.6	361.7	437.3	523.2	606.5	703.9	797.2
-57.5°	80.7	104.7	132.9	170.0	221.2	274.4	340.3	404.1	478.2	552.0	626.4
-60°	64.2	82.5	104.7	130.2	159.7	205.7	250.4	304.9	361.5	416.1	480.8
-62.5°	48.7	64.2	80.7	99.4	122.2	144.3	180.2	219.6	257.6	305.5	352.8
-65°	39.2	47.7	60.5	75.2	89.5	108.9	128.4	147.2	179.2	212.1	243.5
-67.5°	29.6	37.2	44.7	53.3	66.2	78.7	90.7	107.5	123.7	139.1	157.6
-70°	24.4	27.4	33.3	39.8	46.1	53.6	64.4	74.7	84.6	95.4	108.5
-72.5°	20.1	22.7	25.2	27.7	32.9	38.3	43.4	48.4	55.4	63.7	71.5
-75°	16.4	18.0	20.1	22.3	24.3	26.3	28.6	32.9	37.0	40.9	44.6
-77.5°	13.3	14.6	15.9	17.2	18.5	20.1	21.8	23.3	24.8	26.2	27.6
-80°	10.3	11.2	12.2	13.2	14.2	15.1	16.1	16.9	17.8	18.8	19.8
-82.5°	7.7	8.4	9.0	9.6	10.2	10.8	11.4	12.0	12.7	13.3	13.8
-85°	5.2	5.6	6.0	6.4	6.8	7.2	7.6	7.9	8.3	8.6	8.9
-87.5°	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.1	4.3	4.4
-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: P731244 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-5S-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°	4.6	4.7	4.8	5.0	5.1	5.2	5.3	5.3	5.4	5.5	5.5
85°	9.2	9.4	9.7	9.9	10.1	10.3	10.5	10.7	10.8	10.9	11.0
82.5°	14.4	14.9	15.4	15.8	16.2	16.6	16.9	17.2	17.5	17.7	17.9
80°	20.9	21.8	22.7	23.5	24.3	25.0	25.6	26.2	26.7	27.1	27.4
77.5°	29.9	32.6	35.2	37.6	39.8	41.8	43.5	45.1	46.5	47.7	48.7
75°	48.1	52.2	57.7	62.9	67.7	72.1	76.0	79.5	82.5	85.1	87.2
72.5°	79.0	86.0	93.2	102.0	110.2	117.6	124.3	130.2	135.3	139.7	143.3
70°	120.9	132.5	143.4	157.0	174.8	191.1	205.7	218.8	230.1	239.8	247.7
67.5°	184.3	209.4	233.0	254.9	279.8	304.9	327.6	347.7	365.3	380.2	392.5
65°	277.4	315.7	351.6	385.0	416.1	451.2	483.0	511.2	535.8	556.8	574.0
62.5°	397.7	446.4	496.1	542.3	585.0	628.3	671.4	709.8	743.3	771.9	795.3
60°	542.3	600.5	666.2	728.4	785.9	838.7	893.8	942.8	985.7	1022.2	1052.3
57.5°	708.3	785.9	862.2	940.9	1013.8	1080.6	1145.8	1207.1	1260.6	1306.3	1344.0
55°	893.8	991.2	1083.0	1177.3	1267.6	1350.4	1423.6	1481.4	1532.0	1575.2	1610.8
52.5°	1096.7	1215.2	1328.1	1430.7	1515.3	1593.0	1663.6	1697.9	1722.6	1743.7	1761.1
50°	1322.6	1446.1	1551.1	1649.7	1704.5	1742.1	1776.3	1830.2	1900.0	1959.7	2009.0
47.5°	1527.5	1646.9	1712.8	1760.3	1823.6	1929.3	2025.5	2142.8	2386.5	2595.4	2768.1
45°	1693.4	1750.5	1824.3	1956.6	2080.1	2407.7	2742.1	3042.4	4040.1	4998.3	5791.8
42.5°	1776.1	1908.3	2058.6	2428.2	2854.8	3798.9	5323.0	6694.6	7863.2	8840.0	9650.1
40°	1959.3	2194.4	2710.5	3583.0	5515.2	7303.2	8845.9	10237.5	11431.1	12379.5	13167.6
37.5°	2306.7	2882.3	4568.4	6769.4	8740.0	10548.1	12094.3	13438.9	14632.6	15704.5	16597.1
35°	2939.9	5066.7	7514.7	9717.6	11723.6	13458.8	15077.5	16588.9	17933.2	19215.5	20318.4
32.5°	5066.7	7755.8	10212.6	12404.9	14389.7	16317.1	18108.5	19944.6	21597.3	23272.4	24885.0
30°	7514.7	10212.6	12634.0	14872.6	17075.9	19273.3	21458.4	23840.3	26242.4	28605.2	31313.3
27.5°	9717.6	12404.9	14872.6	17331.4	19873.0	22406.9	25554.2	28772.4	32778.2	36291.8	39316.9
25°	11723.6	14389.7	17075.9	19873.0	22827.2	26427.7	30861.7	35663.5	40087.7	44002.9	47310.5
22.5°	13458.8	16317.1	19273.3	22406.9	26427.7	31568.0	37155.8	42442.2	47249.7	51505.3	55366.9
20°	15077.5	18108.5	21458.4	25554.2	30861.7	37155.8	43240.8	48915.9	54212.1	59505.0	64255.4
17.5°	16588.9	19944.6	23840.3	28772.4	35663.5	42442.2	48915.9	55223.8	61650.3	68331.3	74435.4
15°	17933.2	21597.3	26242.4	32778.2	40087.7	47249.7	54212.1	61650.3	69729.4	77878.4	85869.6
12.5°	19215.5	23272.4	28605.2	36291.8	44002.9	51505.3	59505.0	68331.3	77878.4	87810.5	94676.9
10°	20318.4	24885.0	31313.3	39316.9	47310.5	55366.9	64255.4	74435.4	85869.6	94676.9	101281.1
7.5°	21190.8	26164.1	33468.6	41734.9	49961.9	58703.4	68728.7	80272.3	91522.4	99950.4	105288.5
5°	21822.1	27091.7	35035.9	43499.4	51905.4	61163.1	72052.1	84700.9	95348.1	103017.9	107719.9
2.5°	22204.2	27654.0	35988.0	44573.9	53092.7	62672.1	74102.8	87456.1	97756.9	104717.3	109025.8
0°	22332.2	27842.5	36307.4	44934.8	53492.1	63180.9	74796.5	88392.2	98580.9	105239.4	109472.5
-2.5°	22204.2	27654.0	35988.0	44573.9	53092.7	62672.1	74102.8	87456.1	97756.9	104717.3	109025.8
-5°	21822.1	27091.7	35035.9	43499.4	51905.4	61163.1	72052.1	84700.9	95348.1	103017.9	107719.9
-7.5°	21190.8	26164.1	33468.6	41734.9	49961.9	58703.4	68728.7	80272.3	91522.4	99950.4	105288.5
-10°	20318.4	24885.0	31313.3	39316.9	47310.5	55366.9	64255.4	74435.4	85869.6	94676.9	101281.1
-12.5°	19215.5	23272.4	28605.2	36291.8	44002.9	51505.3	59505.0	68331.3	77878.4	87810.5	94676.9
-15°	17933.2	21597.3	26242.4	32778.2	40087.7	47249.7	54212.1	61650.3	69729.4	77878.4	85869.6
-17.5°	16588.9	19944.6	23840.3	28772.4	35663.5	42442.2	48915.9	55223.8	61650.3	68331.3	74435.4
-20°	15077.5	18108.5	21458.4	25554.2	30861.7	37155.8	43240.8	48915.9	54212.1	59505.0	64255.4



REPORT NUMBER: P731244 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-5S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	13458.8	16317.1	19273.3	22406.9	26427.7	31568.0	37155.8	42442.2	47249.7	51505.3	55366.9
-25°	11723.6	14389.7	17075.9	19873.0	22827.2	26427.7	30861.7	35663.5	40087.7	44002.9	47310.5
-27.5°	9717.6	12404.9	14872.6	17331.4	19873.0	22406.9	25554.2	28772.4	32778.2	36291.8	39316.9
-30°	7514.7	10212.6	12634.0	14872.6	17075.9	19273.3	21458.4	23840.3	26242.4	28605.2	31313.3
-32.5°	5066.7	7755.8	10212.6	12404.9	14389.7	16317.1	18108.5	19944.6	21597.3	23272.4	24885.0
-35°	2939.9	5066.7	7514.7	9717.6	11723.6	13458.8	15077.5	16588.9	17933.2	19215.5	20318.4
-37.5°	2306.7	2882.3	4568.4	6769.4	8740.0	10548.1	12094.3	13438.9	14632.6	15704.5	16597.1
-40°	1959.3	2194.4	2710.5	3583.0	5515.2	7303.2	8845.9	10237.5	11431.1	12379.5	13167.6
-42.5°	1776.1	1908.3	2058.6	2428.2	2854.8	3798.9	5323.0	6694.6	7863.2	8840.0	9650.1
-45°	1693.4	1750.5	1824.3	1956.6	2080.1	2407.7	2742.1	3042.4	4040.1	4998.3	5791.8
-47.5°	1527.5	1646.9	1712.8	1760.3	1823.6	1929.3	2025.5	2142.8	2386.5	2595.4	2768.1
-50°	1322.6	1446.1	1551.1	1649.7	1704.5	1742.1	1776.3	1830.2	1900.0	1959.7	2009.0
-52.5°	1096.7	1215.2	1328.1	1430.7	1515.3	1593.0	1663.6	1697.9	1722.6	1743.7	1761.1
-55°	893.8	991.2	1083.0	1177.3	1267.6	1350.4	1423.6	1481.4	1532.0	1575.2	1610.8
-57.5°	708.3	785.9	862.2	940.9	1013.8	1080.6	1145.8	1207.1	1260.6	1306.3	1344.0
-60°	542.3	600.5	666.2	728.4	785.9	838.7	893.8	942.8	985.7	1022.2	1052.3
-62.5°	397.7	446.4	496.1	542.3	585.0	628.3	671.4	709.8	743.3	771.9	795.3
-65°	277.4	315.7	351.6	385.0	416.1	451.2	483.0	511.2	535.8	556.8	574.0
-67.5°	184.3	209.4	233.0	254.9	279.8	304.9	327.6	347.7	365.3	380.2	392.5
-70°	120.9	132.5	143.4	157.0	174.8	191.1	205.7	218.8	230.1	239.8	247.7
-72.5°	79.0	86.0	93.2	102.0	110.2	117.6	124.3	130.2	135.3	139.7	143.3
-75°	48.1	52.2	57.7	62.9	67.7	72.1	76.0	79.5	82.5	85.1	87.2
-77.5°	29.9	32.6	35.2	37.6	39.8	41.8	43.5	45.1	46.5	47.7	48.7
-80°	20.9	21.8	22.7	23.5	24.3	25.0	25.6	26.2	26.7	27.1	27.4
-82.5°	14.4	14.9	15.4	15.8	16.2	16.6	16.9	17.2	17.5	17.7	17.9
-85°	9.2	9.4	9.7	9.9	10.1	10.3	10.5	10.7	10.8	10.9	11.0
-87.5°	4.6	4.7	4.8	5.0	5.1	5.2	5.3	5.3	5.4	5.5	5.5
-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: P731244 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-5S-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°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.5	5.5	5.4	5.3
85°	11.1	11.2	11.2	11.2	11.2	11.2	11.1	11.0	10.9	10.8	10.7
82.5°	18.0	18.1	18.2	18.2	18.2	18.1	18.0	17.9	17.7	17.5	17.2
80°	27.7	27.8	28.0	28.0	28.0	27.8	27.7	27.4	27.1	26.7	26.2
77.5°	49.4	50.0	50.3	50.4	50.3	50.0	49.4	48.7	47.7	46.5	45.1
75°	88.9	90.1	90.8	91.0	90.8	90.1	88.9	87.2	85.1	82.5	79.5
72.5°	146.2	148.2	149.4	149.8	149.4	148.2	146.2	143.3	139.7	135.3	130.2
70°	253.9	258.3	261.0	261.9	261.0	258.3	253.9	247.7	239.8	230.1	218.8
67.5°	402.1	409.0	413.1	414.5	413.1	409.0	402.1	392.5	380.2	365.3	347.7
65°	587.5	597.2	603.0	604.9	603.0	597.2	587.5	574.0	556.8	535.8	511.2
62.5°	813.7	826.9	834.8	837.4	834.8	826.9	813.7	795.3	771.9	743.3	709.8
60°	1075.8	1092.7	1102.8	1106.2	1102.8	1092.7	1075.8	1052.3	1022.2	985.7	942.8
57.5°	1373.4	1394.6	1407.3	1411.5	1407.3	1394.6	1373.4	1344.0	1306.3	1260.6	1207.1
55°	1638.7	1658.7	1670.8	1674.8	1670.8	1658.7	1638.7	1610.8	1575.2	1532.0	1481.4
52.5°	1774.8	1784.5	1790.4	1792.4	1790.4	1784.5	1774.8	1761.1	1743.7	1722.6	1697.9
50°	2047.6	2075.4	2092.1	2097.7	2092.1	2075.4	2047.6	2009.0	1959.7	1900.0	1830.2
47.5°	2903.6	3001.0	3059.7	3079.3	3059.7	3001.0	2903.6	2768.1	2595.4	2386.5	2142.8
45°	6414.9	6863.4	7133.8	7224.2	7133.8	6863.4	6414.9	5791.8	4998.3	4040.1	3042.4
42.5°	10287.2	10746.2	11023.1	11115.7	11023.1	10746.2	10287.2	9650.1	8840.0	7863.2	6694.6
40°	13788.3	14236.1	14506.5	14596.9	14506.5	14236.1	13788.3	13167.6	12379.5	11431.1	10237.5
37.5°	17301.5	17810.3	18118.0	18220.9	18118.0	17810.3	17301.5	16597.1	15704.5	14632.6	13438.9
35°	21190.8	21822.1	22204.2	22332.2	22204.2	21822.1	21190.8	20318.4	19215.5	17933.2	16588.9
32.5°	26164.1	27091.7	27654.0	27842.5	27654.0	27091.7	26164.1	24885.0	23272.4	21597.3	19944.6
30°	33468.6	35035.9	35988.0	36307.4	35988.0	35035.9	33468.6	31313.3	28605.2	26242.4	23840.3
27.5°	41734.9	43499.4	44573.9	44934.8	44573.9	43499.4	41734.9	39316.9	36291.8	32778.2	28772.4
25°	49961.9	51905.4	53092.7	53492.1	53092.7	51905.4	49961.9	47310.5	44002.9	40087.7	35663.5
22.5°	58703.4	61163.1	62672.1	63180.9	62672.1	61163.1	58703.4	55366.9	51505.3	47249.7	42442.2
20°	68728.7	72052.1	74102.8	74796.5	74102.8	72052.1	68728.7	64255.4	59505.0	54212.1	48915.9
17.5°	80272.3	84700.9	87456.1	88392.2	87456.1	84700.9	80272.3	74435.4	68331.3	61650.3	55223.8
15°	91522.4	95348.1	97756.9	98580.9	97756.9	95348.1	91522.4	85869.6	77878.4	69729.4	61650.3
12.5°	99950.4	103017.9	104717.3	105239.4	104717.3	103017.9	99950.4	94676.9	87810.5	77878.4	68331.3
10°	105288.5	107719.9	109025.8	109472.5	109025.8	107719.9	105288.5	101281.1	94676.9	85869.6	74435.4
7.5°	108605.4	110868.8	112228.2	112707.3	112228.2	110868.8	108605.4	105288.5	99950.4	91522.4	80272.3
5°	110868.8	113221.9	114681.8	115127.0	114681.8	113221.9	110868.8	107719.9	103017.9	95348.1	84700.9
2.5°	112228.2	114681.8	115383.4	115359.5	115383.4	114681.8	112228.2	109025.8	104717.3	97756.9	87456.1
0°	112707.3	115127.0	115359.5	114914.2	115359.5	115127.0	112707.3	109472.5	105239.4	98580.9	88392.2
-2.5°	112228.2	114681.8	115383.4	115359.5	115383.4	114681.8	112228.2	109025.8	104717.3	97756.9	87456.1
-5°	110868.8	113221.9	114681.8	115127.0	114681.8	113221.9	110868.8	107719.9	103017.9	95348.1	84700.9
-7.5°	108605.4	110868.8	112228.2	112707.3	112228.2	110868.8	108605.4	105288.5	99950.4	91522.4	80272.3
-10°	105288.5	107719.9	109025.8	109472.5	109025.8	107719.9	105288.5	101281.1	94676.9	85869.6	74435.4
-12.5°	99950.4	103017.9	104717.3	105239.4	104717.3	103017.9	99950.4	94676.9	87810.5	77878.4	68331.3
-15°	91522.4	95348.1	97756.9	98580.9	97756.9	95348.1	91522.4	85869.6	77878.4	69729.4	61650.3
-17.5°	80272.3	84700.9	87456.1	88392.2	87456.1	84700.9	80272.3	74435.4	68331.3	61650.3	55223.8
-20°	68728.7	72052.1	74102.8	74796.5	74102.8	72052.1	68728.7	64255.4	59505.0	54212.1	48915.9



REPORT NUMBER: P731244 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-5S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	58703.4	61163.1	62672.1	63180.9	62672.1	61163.1	58703.4	55366.9	51505.3	47249.7	42442.2
-25°	49961.9	51905.4	53092.7	53492.1	53092.7	51905.4	49961.9	47310.5	44002.9	40087.7	35663.5
-27.5°	41734.9	43499.4	44573.9	44934.8	44573.9	43499.4	41734.9	39316.9	36291.8	32778.2	28772.4
-30°	33468.6	35035.9	35988.0	36307.4	35988.0	35035.9	33468.6	31313.3	28605.2	26242.4	23840.3
-32.5°	26164.1	27091.7	27654.0	27842.5	27654.0	27091.7	26164.1	24885.0	23272.4	21597.3	19944.6
-35°	21190.8	21822.1	22204.2	22332.2	22204.2	21822.1	21190.8	20318.4	19215.5	17933.2	16588.9
-37.5°	17301.5	17810.3	18118.0	18220.9	18118.0	17810.3	17301.5	16597.1	15704.5	14632.6	13438.9
-40°	13788.3	14236.1	14506.5	14596.9	14506.5	14236.1	13788.3	13167.6	12379.5	11431.1	10237.5
-42.5°	10287.2	10746.2	11023.1	11115.7	11023.1	10746.2	10287.2	9650.1	8840.0	7863.2	6694.6
-45°	6414.9	6863.4	7133.8	7224.2	7133.8	6863.4	6414.9	5791.8	4998.3	4040.1	3042.4
-47.5°	2903.6	3001.0	3059.7	3079.3	3059.7	3001.0	2903.6	2768.1	2595.4	2386.5	2142.8
-50°	2047.6	2075.4	2092.1	2097.7	2092.1	2075.4	2047.6	2009.0	1959.7	1900.0	1830.2
-52.5°	1774.8	1784.5	1790.4	1792.4	1790.4	1784.5	1774.8	1761.1	1743.7	1722.6	1697.9
-55°	1638.7	1658.7	1670.8	1674.8	1670.8	1658.7	1638.7	1610.8	1575.2	1532.0	1481.4
-57.5°	1373.4	1394.6	1407.3	1411.5	1407.3	1394.6	1373.4	1344.0	1306.3	1260.6	1207.1
-60°	1075.8	1092.7	1102.8	1106.2	1102.8	1092.7	1075.8	1052.3	1022.2	985.7	942.8
-62.5°	813.7	826.9	834.8	837.4	834.8	826.9	813.7	795.3	771.9	743.3	709.8
-65°	587.5	597.2	603.0	604.9	603.0	597.2	587.5	574.0	556.8	535.8	511.2
-67.5°	402.1	409.0	413.1	414.5	413.1	409.0	402.1	392.5	380.2	365.3	347.7
-70°	253.9	258.3	261.0	261.9	261.0	258.3	253.9	247.7	239.8	230.1	218.8
-72.5°	146.2	148.2	149.4	149.8	149.4	148.2	146.2	143.3	139.7	135.3	130.2
-75°	88.9	90.1	90.8	91.0	90.8	90.1	88.9	87.2	85.1	82.5	79.5
-77.5°	49.4	50.0	50.3	50.4	50.3	50.0	49.4	48.7	47.7	46.5	45.1
-80°	27.7	27.8	28.0	28.0	28.0	27.8	27.7	27.4	27.1	26.7	26.2
-82.5°	18.0	18.1	18.2	18.2	18.2	18.1	18.0	17.9	17.7	17.5	17.2
-85°	11.1	11.2	11.2	11.2	11.2	11.2	11.1	11.0	10.9	10.8	10.7
-87.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.5	5.5	5.4	5.3
-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: P731244 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-5S-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°	5.3	5.2	5.1	5.0	4.8	4.7	4.6	4.4	4.3	4.1	4.0
85°	10.5	10.3	10.1	9.9	9.7	9.4	9.2	8.9	8.6	8.3	7.9
82.5°	16.9	16.6	16.2	15.8	15.4	14.9	14.4	13.8	13.3	12.7	12.0
80°	25.6	25.0	24.3	23.5	22.7	21.8	20.9	19.8	18.8	17.8	16.9
77.5°	43.5	41.8	39.8	37.6	35.2	32.6	29.9	27.6	26.2	24.8	23.3
75°	76.0	72.1	67.7	62.9	57.7	52.2	48.1	44.6	40.9	37.0	32.9
72.5°	124.3	117.6	110.2	102.0	93.2	86.0	79.0	71.5	63.7	55.4	48.4
70°	205.7	191.1	174.8	157.0	143.4	132.5	120.9	108.5	95.4	84.6	74.7
67.5°	327.6	304.9	279.8	254.9	233.0	209.4	184.3	157.6	139.1	123.7	107.5
65°	483.0	451.2	416.1	385.0	351.6	315.7	277.4	243.5	212.1	179.2	147.2
62.5°	671.4	628.3	585.0	542.3	496.1	446.4	397.7	352.8	305.5	257.6	219.6
60°	893.8	838.7	785.9	728.4	666.2	600.5	542.3	480.8	416.1	361.5	304.9
57.5°	1145.8	1080.6	1013.8	940.9	862.2	785.9	708.3	626.4	552.0	478.2	404.1
55°	1423.6	1350.4	1267.6	1177.3	1083.0	991.2	893.8	797.2	703.9	606.5	523.2
52.5°	1663.6	1593.0	1515.3	1430.7	1328.1	1215.2	1096.7	985.7	869.3	760.1	651.1
50°	1776.3	1742.1	1704.5	1649.7	1551.1	1446.1	1322.6	1186.9	1052.3	922.2	794.1
47.5°	2025.5	1929.3	1823.6	1760.3	1712.8	1646.9	1527.5	1400.6	1248.7	1092.7	948.8
45°	2742.1	2407.7	2080.1	1956.6	1824.3	1750.5	1693.4	1582.5	1442.9	1279.8	1106.2
42.5°	5323.0	3798.9	2854.8	2428.2	2058.6	1908.3	1776.1	1712.3	1610.3	1456.5	1279.8
40°	8845.9	7303.2	5515.2	3583.0	2710.5	2194.4	1959.3	1788.9	1718.6	1610.3	1442.9
37.5°	12094.3	10548.1	8740.0	6769.4	4568.4	2882.3	2306.7	1976.4	1788.9	1712.3	1582.5
35°	15077.5	13458.8	11723.6	9717.6	7514.7	5066.7	2939.9	2306.7	1959.3	1776.1	1693.4
32.5°	18108.5	16317.1	14389.7	12404.9	10212.6	7755.8	5066.7	2882.3	2194.4	1908.3	1750.5
30°	21458.4	19273.3	17075.9	14872.6	12634.0	10212.6	7514.7	4568.4	2710.5	2058.6	1824.3
27.5°	25554.2	22406.9	19873.0	17331.4	14872.6	12404.9	9717.6	6769.4	3583.0	2428.2	1956.6
25°	30861.7	26427.7	22827.2	19873.0	17075.9	14389.7	11723.6	8740.0	5515.2	2854.8	2080.1
22.5°	37155.8	31568.0	26427.7	22406.9	19273.3	16317.1	13458.8	10548.1	7303.2	3798.9	2407.7
20°	43240.8	37155.8	30861.7	25554.2	21458.4	18108.5	15077.5	12094.3	8845.9	5323.0	2742.1
17.5°	48915.9	42442.2	35663.5	28772.4	23840.3	19944.6	16588.9	13438.9	10237.5	6694.6	3042.4
15°	54212.1	47249.7	40087.7	32778.2	26242.4	21597.3	17933.2	14632.6	11431.1	7863.2	4040.1
12.5°	59505.0	51505.3	44002.9	36291.8	28605.2	23272.4	19215.5	15704.5	12379.5	8840.0	4998.3
10°	64255.4	55366.9	47310.5	39316.9	31313.3	24885.0	20318.4	16597.1	13167.6	9650.1	5791.8
7.5°	68728.7	58703.4	49961.9	41734.9	33468.6	26164.1	21190.8	17301.5	13788.3	10287.2	6414.9
5°	72052.1	61163.1	51905.4	43499.4	35035.9	27091.7	21822.1	17810.3	14236.1	10746.2	6863.4
2.5°	74102.8	62672.1	53092.7	44573.9	35988.0	27654.0	22204.2	18118.0	14506.5	11023.1	7133.8
0°	74796.5	63180.9	53492.1	44934.8	36307.4	27842.5	22332.2	18220.9	14596.9	11115.7	7224.2
-2.5°	74102.8	62672.1	53092.7	44573.9	35988.0	27654.0	22204.2	18118.0	14506.5	11023.1	7133.8
-5°	72052.1	61163.1	51905.4	43499.4	35035.9	27091.7	21822.1	17810.3	14236.1	10746.2	6863.4
-7.5°	68728.7	58703.4	49961.9	41734.9	33468.6	26164.1	21190.8	17301.5	13788.3	10287.2	6414.9
-10°	64255.4	55366.9	47310.5	39316.9	31313.3	24885.0	20318.4	16597.1	13167.6	9650.1	5791.8
-12.5°	59505.0	51505.3	44002.9	36291.8	28605.2	23272.4	19215.5	15704.5	12379.5	8840.0	4998.3
-15°	54212.1	47249.7	40087.7	32778.2	26242.4	21597.3	17933.2	14632.6	11431.1	7863.2	4040.1
-17.5°	48915.9	42442.2	35663.5	28772.4	23840.3	19944.6	16588.9	13438.9	10237.5	6694.6	3042.4
-20°	43240.8	37155.8	30861.7	25554.2	21458.4	18108.5	15077.5	12094.3	8845.9	5323.0	2742.1



REPORT NUMBER: P731244 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-5S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	37155.8	31568.0	26427.7	22406.9	19273.3	16317.1	13458.8	10548.1	7303.2	3798.9	2407.7
-25°	30861.7	26427.7	22827.2	19873.0	17075.9	14389.7	11723.6	8740.0	5515.2	2854.8	2080.1
-27.5°	25554.2	22406.9	19873.0	17331.4	14872.6	12404.9	9717.6	6769.4	3583.0	2428.2	1956.6
-30°	21458.4	19273.3	17075.9	14872.6	12634.0	10212.6	7514.7	4568.4	2710.5	2058.6	1824.3
-32.5°	18108.5	16317.1	14389.7	12404.9	10212.6	7755.8	5066.7	2882.3	2194.4	1908.3	1750.5
-35°	15077.5	13458.8	11723.6	9717.6	7514.7	5066.7	2939.9	2306.7	1959.3	1776.1	1693.4
-37.5°	12094.3	10548.1	8740.0	6769.4	4568.4	2882.3	2306.7	1976.4	1788.9	1712.3	1582.5
-40°	8845.9	7303.2	5515.2	3583.0	2710.5	2194.4	1959.3	1788.9	1718.6	1610.3	1442.9
-42.5°	5323.0	3798.9	2854.8	2428.2	2058.6	1908.3	1776.1	1712.3	1610.3	1456.5	1279.8
-45°	2742.1	2407.7	2080.1	1956.6	1824.3	1750.5	1693.4	1582.5	1442.9	1279.8	1106.2
-47.5°	2025.5	1929.3	1823.6	1760.3	1712.8	1646.9	1527.5	1400.6	1248.7	1092.7	948.8
-50°	1776.3	1742.1	1704.5	1649.7	1551.1	1446.1	1322.6	1186.9	1052.3	922.2	794.1
-52.5°	1663.6	1593.0	1515.3	1430.7	1328.1	1215.2	1096.7	985.7	869.3	760.1	651.1
-55°	1423.6	1350.4	1267.6	1177.3	1083.0	991.2	893.8	797.2	703.9	606.5	523.2
-57.5°	1145.8	1080.6	1013.8	940.9	862.2	785.9	708.3	626.4	552.0	478.2	404.1
-60°	893.8	838.7	785.9	728.4	666.2	600.5	542.3	480.8	416.1	361.5	304.9
-62.5°	671.4	628.3	585.0	542.3	496.1	446.4	397.7	352.8	305.5	257.6	219.6
-65°	483.0	451.2	416.1	385.0	351.6	315.7	277.4	243.5	212.1	179.2	147.2
-67.5°	327.6	304.9	279.8	254.9	233.0	209.4	184.3	157.6	139.1	123.7	107.5
-70°	205.7	191.1	174.8	157.0	143.4	132.5	120.9	108.5	95.4	84.6	74.7
-72.5°	124.3	117.6	110.2	102.0	93.2	86.0	79.0	71.5	63.7	55.4	48.4
-75°	76.0	72.1	67.7	62.9	57.7	52.2	48.1	44.6	40.9	37.0	32.9
-77.5°	43.5	41.8	39.8	37.6	35.2	32.6	29.9	27.6	26.2	24.8	23.3
-80°	25.6	25.0	24.3	23.5	22.7	21.8	20.9	19.8	18.8	17.8	16.9
-82.5°	16.9	16.6	16.2	15.8	15.4	14.9	14.4	13.8	13.3	12.7	12.0
-85°	10.5	10.3	10.1	9.9	9.7	9.4	9.2	8.9	8.6	8.3	7.9
-87.5°	5.3	5.2	5.1	5.0	4.8	4.7	4.6	4.4	4.3	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: P731244 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-5S-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°	3.8	3.6	3.4	3.2	3.0	2.8	2.6	2.4	2.1	1.9	1.7
85°	7.6	7.2	6.8	6.4	6.0	5.6	5.2	4.7	4.3	3.8	3.4
82.5°	11.4	10.8	10.2	9.6	9.0	8.4	7.7	7.1	6.4	5.7	5.0
80°	16.1	15.1	14.2	13.2	12.2	11.2	10.3	9.4	8.5	7.6	6.7
77.5°	21.8	20.1	18.5	17.2	15.9	14.6	13.3	11.9	10.6	9.5	8.4
75°	28.6	26.3	24.3	22.3	20.1	18.0	16.4	14.8	13.1	11.4	10.0
72.5°	43.4	38.3	32.9	27.7	25.2	22.7	20.1	17.6	15.7	13.7	11.7
70°	64.4	53.6	46.1	39.8	33.3	27.4	24.4	21.4	18.3	16.0	13.7
67.5°	90.7	78.7	66.2	53.3	44.7	37.2	29.6	25.3	21.8	18.3	15.7
65°	128.4	108.9	89.5	75.2	60.5	47.7	39.2	30.6	25.3	21.4	17.6
62.5°	180.2	144.3	122.2	99.4	80.7	64.2	48.7	39.2	29.6	24.4	20.1
60°	250.4	205.7	159.7	130.2	104.7	82.5	64.2	47.7	37.2	27.4	22.7
57.5°	340.3	274.4	221.2	170.0	132.9	104.7	80.7	60.5	44.7	33.3	25.2
55°	437.3	361.7	288.6	226.4	170.0	130.2	99.4	75.2	53.3	39.8	27.7
52.5°	550.4	455.3	368.8	288.6	221.2	159.7	122.2	89.5	66.2	46.1	32.9
50°	673.6	559.5	455.3	361.7	274.4	205.7	144.3	108.9	78.7	53.6	38.3
47.5°	805.5	673.6	550.4	437.3	340.3	250.4	180.2	128.4	90.7	64.4	43.4
45°	948.8	794.1	651.1	523.2	404.1	304.9	219.6	147.2	107.5	74.7	48.4
42.5°	1092.7	922.2	760.1	606.5	478.2	361.5	257.6	179.2	123.7	84.6	55.4
40°	1248.7	1052.3	869.3	703.9	552.0	416.1	305.5	212.1	139.1	95.4	63.7
37.5°	1400.6	1186.9	985.7	797.2	626.4	480.8	352.8	243.5	157.6	108.5	71.5
35°	1527.5	1322.6	1096.7	893.8	708.3	542.3	397.7	277.4	184.3	120.9	79.0
32.5°	1646.9	1446.1	1215.2	991.2	785.9	600.5	446.4	315.7	209.4	132.5	86.0
30°	1712.8	1551.1	1328.1	1083.0	862.2	666.2	496.1	351.6	233.0	143.4	93.2
27.5°	1760.3	1649.7	1430.7	1177.3	940.9	728.4	542.3	385.0	254.9	157.0	102.0
25°	1823.6	1704.5	1515.3	1267.6	1013.8	785.9	585.0	416.1	279.8	174.8	110.2
22.5°	1929.3	1742.1	1593.0	1350.4	1080.6	838.7	628.3	451.2	304.9	191.1	117.6
20°	2025.5	1776.3	1663.6	1423.6	1145.8	893.8	671.4	483.0	327.6	205.7	124.3
17.5°	2142.8	1830.2	1697.9	1481.4	1207.1	942.8	709.8	511.2	347.7	218.8	130.2
15°	2386.5	1900.0	1722.6	1532.0	1260.6	985.7	743.3	535.8	365.3	230.1	135.3
12.5°	2595.4	1959.7	1743.7	1575.2	1306.3	1022.2	771.9	556.8	380.2	239.8	139.7
10°	2768.1	2009.0	1761.1	1610.8	1344.0	1052.3	795.3	574.0	392.5	247.7	143.3
7.5°	2903.6	2047.6	1774.8	1638.7	1373.4	1075.8	813.7	587.5	402.1	253.9	146.2
5°	3001.0	2075.4	1784.5	1658.7	1394.6	1092.7	826.9	597.2	409.0	258.3	148.2
2.5°	3059.7	2092.1	1790.4	1670.8	1407.3	1102.8	834.8	603.0	413.1	261.0	149.4
0°	3079.3	2097.7	1792.4	1674.8	1411.5	1106.2	837.4	604.9	414.5	261.9	149.8
-2.5°	3059.7	2092.1	1790.4	1670.8	1407.3	1102.8	834.8	603.0	413.1	261.0	149.4
-5°	3001.0	2075.4	1784.5	1658.7	1394.6	1092.7	826.9	597.2	409.0	258.3	148.2
-7.5°	2903.6	2047.6	1774.8	1638.7	1373.4	1075.8	813.7	587.5	402.1	253.9	146.2
-10°	2768.1	2009.0	1761.1	1610.8	1344.0	1052.3	795.3	574.0	392.5	247.7	143.3
-12.5°	2595.4	1959.7	1743.7	1575.2	1306.3	1022.2	771.9	556.8	380.2	239.8	139.7
-15°	2386.5	1900.0	1722.6	1532.0	1260.6	985.7	743.3	535.8	365.3	230.1	135.3
-17.5°	2142.8	1830.2	1697.9	1481.4	1207.1	942.8	709.8	511.2	347.7	218.8	130.2
-20°	2025.5	1776.3	1663.6	1423.6	1145.8	893.8	671.4	483.0	327.6	205.7	124.3



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1929.3	1742.1	1593.0	1350.4	1080.6	838.7	628.3	451.2	304.9	191.1	117.6
-25°	1823.6	1704.5	1515.3	1267.6	1013.8	785.9	585.0	416.1	279.8	174.8	110.2
-27.5°	1760.3	1649.7	1430.7	1177.3	940.9	728.4	542.3	385.0	254.9	157.0	102.0
-30°	1712.8	1551.1	1328.1	1083.0	862.2	666.2	496.1	351.6	233.0	143.4	93.2
-32.5°	1646.9	1446.1	1215.2	991.2	785.9	600.5	446.4	315.7	209.4	132.5	86.0
-35°	1527.5	1322.6	1096.7	893.8	708.3	542.3	397.7	277.4	184.3	120.9	79.0
-37.5°	1400.6	1186.9	985.7	797.2	626.4	480.8	352.8	243.5	157.6	108.5	71.5
-40°	1248.7	1052.3	869.3	703.9	552.0	416.1	305.5	212.1	139.1	95.4	63.7
-42.5°	1092.7	922.2	760.1	606.5	478.2	361.5	257.6	179.2	123.7	84.6	55.4
-45°	948.8	794.1	651.1	523.2	404.1	304.9	219.6	147.2	107.5	74.7	48.4
-47.5°	805.5	673.6	550.4	437.3	340.3	250.4	180.2	128.4	90.7	64.4	43.4
-50°	673.6	559.5	455.3	361.7	274.4	205.7	144.3	108.9	78.7	53.6	38.3
-52.5°	550.4	455.3	368.8	288.6	221.2	159.7	122.2	89.5	66.2	46.1	32.9
-55°	437.3	361.7	288.6	226.4	170.0	130.2	99.4	75.2	53.3	39.8	27.7
-57.5°	340.3	274.4	221.2	170.0	132.9	104.7	80.7	60.5	44.7	33.3	25.2
-60°	250.4	205.7	159.7	130.2	104.7	82.5	64.2	47.7	37.2	27.4	22.7
-62.5°	180.2	144.3	122.2	99.4	80.7	64.2	48.7	39.2	29.6	24.4	20.1
-65°	128.4	108.9	89.5	75.2	60.5	47.7	39.2	30.6	25.3	21.4	17.6
-67.5°	90.7	78.7	66.2	53.3	44.7	37.2	29.6	25.3	21.8	18.3	15.7
-70°	64.4	53.6	46.1	39.8	33.3	27.4	24.4	21.4	18.3	16.0	13.7
-72.5°	43.4	38.3	32.9	27.7	25.2	22.7	20.1	17.6	15.7	13.7	11.7
-75°	28.6	26.3	24.3	22.3	20.1	18.0	16.4	14.8	13.1	11.4	10.0
-77.5°	21.8	20.1	18.5	17.2	15.9	14.6	13.3	11.9	10.6	9.5	8.4
-80°	16.1	15.1	14.2	13.2	12.2	11.2	10.3	9.4	8.5	7.6	6.7
-82.5°	11.4	10.8	10.2	9.6	9.0	8.4	7.7	7.1	6.4	5.7	5.0
-85°	7.6	7.2	6.8	6.4	6.0	5.6	5.2	4.7	4.3	3.8	3.4
-87.5°	3.8	3.6	3.4	3.2	3.0	2.8	2.6	2.4	2.1	1.9	1.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	1.4	1.2	1.0	0.7	0.5	0.2	0.0
85°	2.9	2.4	1.9	1.5	1.0	0.5	0.0
82.5°	4.3	3.6	2.9	2.2	1.5	0.7	0.0
80°	5.8	4.8	3.9	2.9	1.9	1.0	0.0
77.5°	7.2	6.0	4.8	3.6	2.4	1.2	0.0
75°	8.6	7.2	5.8	4.3	2.9	1.4	0.0
72.5°	10.0	8.4	6.7	5.0	3.4	1.7	0.0
70°	11.4	9.5	7.6	5.7	3.8	1.9	0.0
67.5°	13.1	10.6	8.5	6.4	4.3	2.1	0.0
65°	14.8	11.9	9.4	7.1	4.7	2.4	0.0
62.5°	16.4	13.3	10.3	7.7	5.2	2.6	0.0
60°	18.0	14.6	11.2	8.4	5.6	2.8	0.0
57.5°	20.1	15.9	12.2	9.0	6.0	3.0	0.0
55°	22.3	17.2	13.2	9.6	6.4	3.2	0.0
52.5°	24.3	18.5	14.2	10.2	6.8	3.4	0.0
50°	26.3	20.1	15.1	10.8	7.2	3.6	0.0
47.5°	28.6	21.8	16.1	11.4	7.6	3.8	0.0
45°	32.9	23.3	16.9	12.0	7.9	4.0	0.0
42.5°	37.0	24.8	17.8	12.7	8.3	4.1	0.0
40°	40.9	26.2	18.8	13.3	8.6	4.3	0.0
37.5°	44.6	27.6	19.8	13.8	8.9	4.4	0.0
35°	48.1	29.9	20.9	14.4	9.2	4.6	0.0
32.5°	52.2	32.6	21.8	14.9	9.4	4.7	0.0
30°	57.7	35.2	22.7	15.4	9.7	4.8	0.0
27.5°	62.9	37.6	23.5	15.8	9.9	5.0	0.0
25°	67.7	39.8	24.3	16.2	10.1	5.1	0.0
22.5°	72.1	41.8	25.0	16.6	10.3	5.2	0.0
20°	76.0	43.5	25.6	16.9	10.5	5.3	0.0
17.5°	79.5	45.1	26.2	17.2	10.7	5.3	0.0
15°	82.5	46.5	26.7	17.5	10.8	5.4	0.0
12.5°	85.1	47.7	27.1	17.7	10.9	5.5	0.0
10°	87.2	48.7	27.4	17.9	11.0	5.5	0.0
7.5°	88.9	49.4	27.7	18.0	11.1	5.6	0.0
5°	90.1	50.0	27.8	18.1	11.2	5.6	0.0
2.5°	90.8	50.3	28.0	18.2	11.2	5.6	0.0
0°	91.0	50.4	28.0	18.2	11.2	5.6	0.0
-2.5°	90.8	50.3	28.0	18.2	11.2	5.6	0.0
-5°	90.1	50.0	27.8	18.1	11.2	5.6	0.0
-7.5°	88.9	49.4	27.7	18.0	11.1	5.6	0.0
-10°	87.2	48.7	27.4	17.9	11.0	5.5	0.0
-12.5°	85.1	47.7	27.1	17.7	10.9	5.5	0.0
-15°	82.5	46.5	26.7	17.5	10.8	5.4	0.0
-17.5°	79.5	45.1	26.2	17.2	10.7	5.3	0.0
-20°	76.0	43.5	25.6	16.9	10.5	5.3	0.0



REPORT NUMBER: P731244 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-5S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	72.1	41.8	25.0	16.6	10.3	5.2	0.0
-25°	67.7	39.8	24.3	16.2	10.1	5.1	0.0
-27.5°	62.9	37.6	23.5	15.8	9.9	5.0	0.0
-30°	57.7	35.2	22.7	15.4	9.7	4.8	0.0
-32.5°	52.2	32.6	21.8	14.9	9.4	4.7	0.0
-35°	48.1	29.9	20.9	14.4	9.2	4.6	0.0
-37.5°	44.6	27.6	19.8	13.8	8.9	4.4	0.0
-40°	40.9	26.2	18.8	13.3	8.6	4.3	0.0
-42.5°	37.0	24.8	17.8	12.7	8.3	4.1	0.0
-45°	32.9	23.3	16.9	12.0	7.9	4.0	0.0
-47.5°	28.6	21.8	16.1	11.4	7.6	3.8	0.0
-50°	26.3	20.1	15.1	10.8	7.2	3.6	0.0
-52.5°	24.3	18.5	14.2	10.2	6.8	3.4	0.0
-55°	22.3	17.2	13.2	9.6	6.4	3.2	0.0
-57.5°	20.1	15.9	12.2	9.0	6.0	3.0	0.0
-60°	18.0	14.6	11.2	8.4	5.6	2.8	0.0
-62.5°	16.4	13.3	10.3	7.7	5.2	2.6	0.0
-65°	14.8	11.9	9.4	7.1	4.7	2.4	0.0
-67.5°	13.1	10.6	8.5	6.4	4.3	2.1	0.0
-70°	11.4	9.5	7.6	5.7	3.8	1.9	0.0
-72.5°	10.0	8.4	6.7	5.0	3.4	1.7	0.0
-75°	8.6	7.2	5.8	4.3	2.9	1.4	0.0
-77.5°	7.2	6.0	4.8	3.6	2.4	1.2	0.0
-80°	5.8	4.8	3.9	2.9	1.9	1.0	0.0
-82.5°	4.3	3.6	2.9	2.2	1.5	0.7	0.0
-85°	2.9	2.4	1.9	1.5	1.0	0.5	0.0
-87.5°	1.4	1.2	1.0	0.7	0.5	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

