

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: P731270 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-70-1S-HEG**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731270 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-61)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680N-40-70-1S-HEG
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 1S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

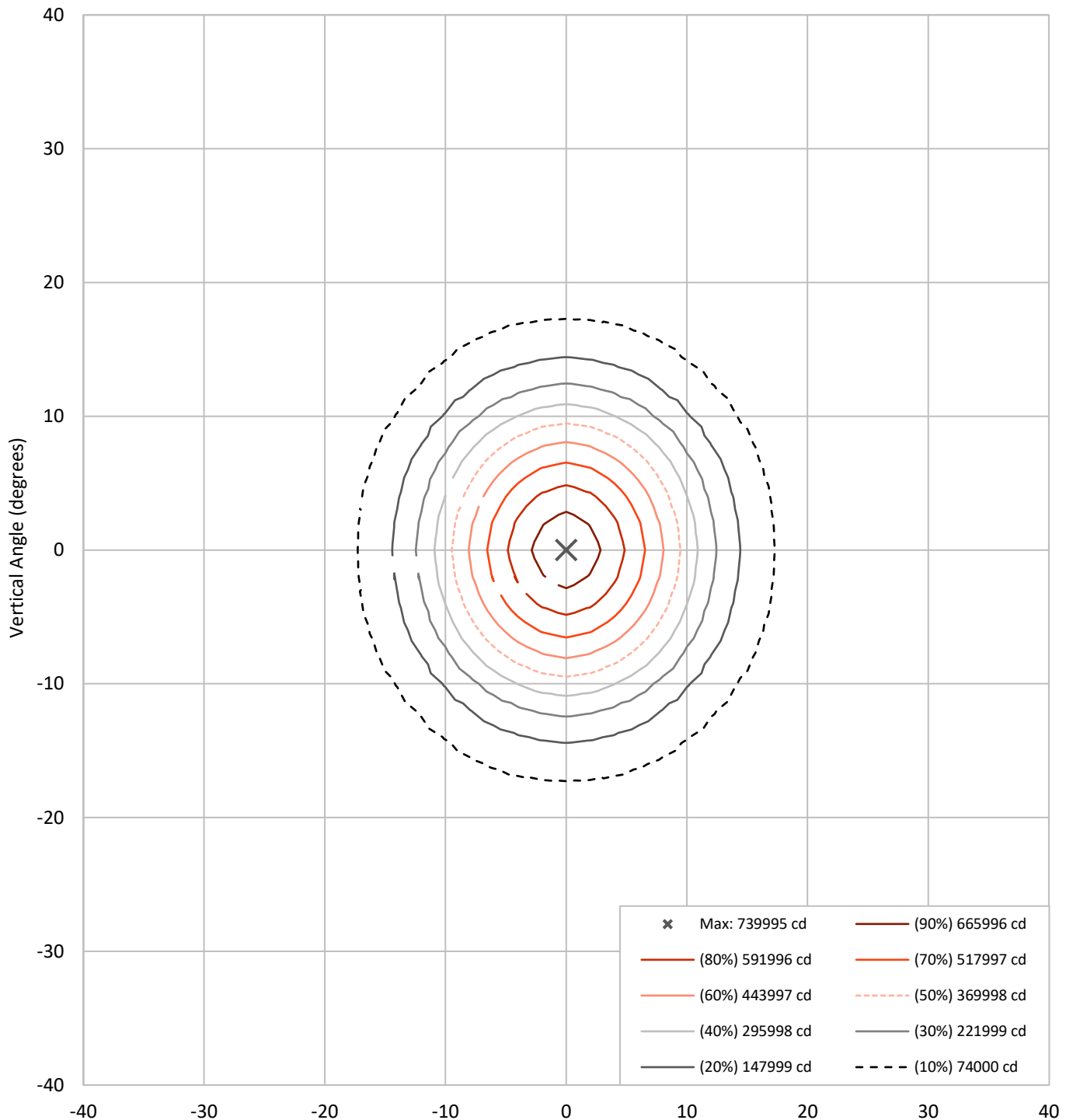
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	100243.8 lumens	Max Intensity:	739995 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	138.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	19°H x 19°V	Field Angle (10%):	34.3°H x 34.3°V
Beam Lumens:	43206.4 lumens	Field Lumens:	79595.6 lumens
Beam Efficiency:	43.1%	Field Efficiency:	79.4%

Input Watts (W): 724.3
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





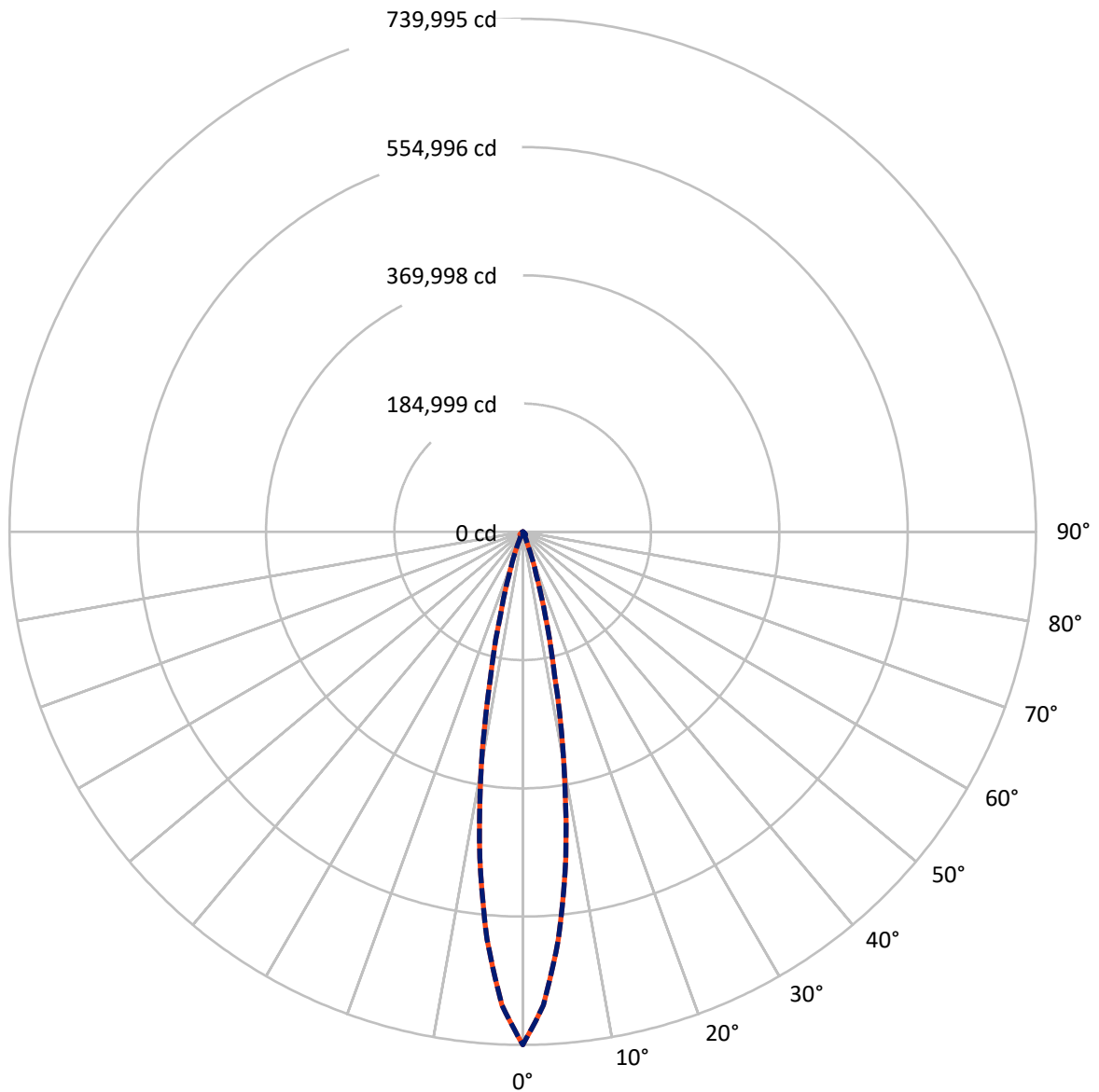
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Lumen Table

90	0.1	1.0	3.5	8.7	11.5	8.7	3.5	1.0	0.1										
80	0.1	1.0	3.5	8.7	11.5	8.7	3.5	1.0	0.1										
70	0.4	0.5	2.1	6.3	12.6	19.6	25.3	28.5	28.5	25.3	19.6	12.6	6.3	2.1	0.5	0.4			
60		1.6	7.4	18.2	31.2	42.2	49.4	53.3	53.3	49.4	42.2	31.2	18.2	7.4	1.6				
50	1.2	3.9	14.8	31.0	45.2	76.6	120.6	144.9	144.9	120.6	76.6	45.2	31.0	14.8	3.9	1.2			
40		6.7	22.1	39.1	92.5	158.3	174.8	175.2	175.2	174.8	158.3	92.5	39.1	22.1	6.7				
30	2.5	9.4	26.9	60.4	143.2	158.6	174.2	302.0	302.0	174.2	158.6	143.2	60.4	26.9	9.4	2.5			
20		11.4	29.5	89.6	148.2	163.7	957.3	3574.6	3574.6	957.3	163.7	148.2	89.6	29.5	11.4				
10	3.2	12.5	30.9	104.0	143.8	277.8	3488.0	13726.5	13726.5	3488.0	277.8	143.8	104.0	30.9	12.5	3.2			
0		12.5	30.9	104.0	143.8	277.8	3488.0	13726.5	13726.5	3488.0	277.8	143.8	104.0	30.9	12.5				
-10	2.5	11.4	29.5	89.6	148.2	163.7	957.3	3574.6	3574.6	957.3	163.7	148.2	89.6	29.5	11.4	2.5			
-20		9.4	26.9	60.4	143.2	158.6	174.2	302.0	302.0	174.2	158.6	143.2	60.4	26.9	9.4				
-30	1.2	6.7	22.1	39.1	92.5	158.3	174.8	175.2	175.2	174.8	158.3	92.5	39.1	22.1	6.7	1.2			
-40		3.9	14.8	31.0	45.2	76.6	120.6	144.9	144.9	120.6	76.6	45.2	31.0	14.8	3.9				
-50	0.4	1.6	7.4	18.2	31.2	42.2	49.4	53.3	53.3	49.4	42.2	31.2	18.2	7.4	1.6	0.4			
-60		0.5	2.1	6.3	12.6	19.6	25.3	28.5	28.5	25.3	19.6	12.6	6.3	2.1	0.5				
-70	0.1	1.0	3.5	8.7	11.5	8.7	3.5	1.0	0.1						0.1				
-80		0.1	1.0	3.5	8.7	11.5	8.7	3.5	1.0	0.1									
-90	0.1	1.0	3.5	8.7	11.5	8.7	3.5	1.0	0.1						0.1				

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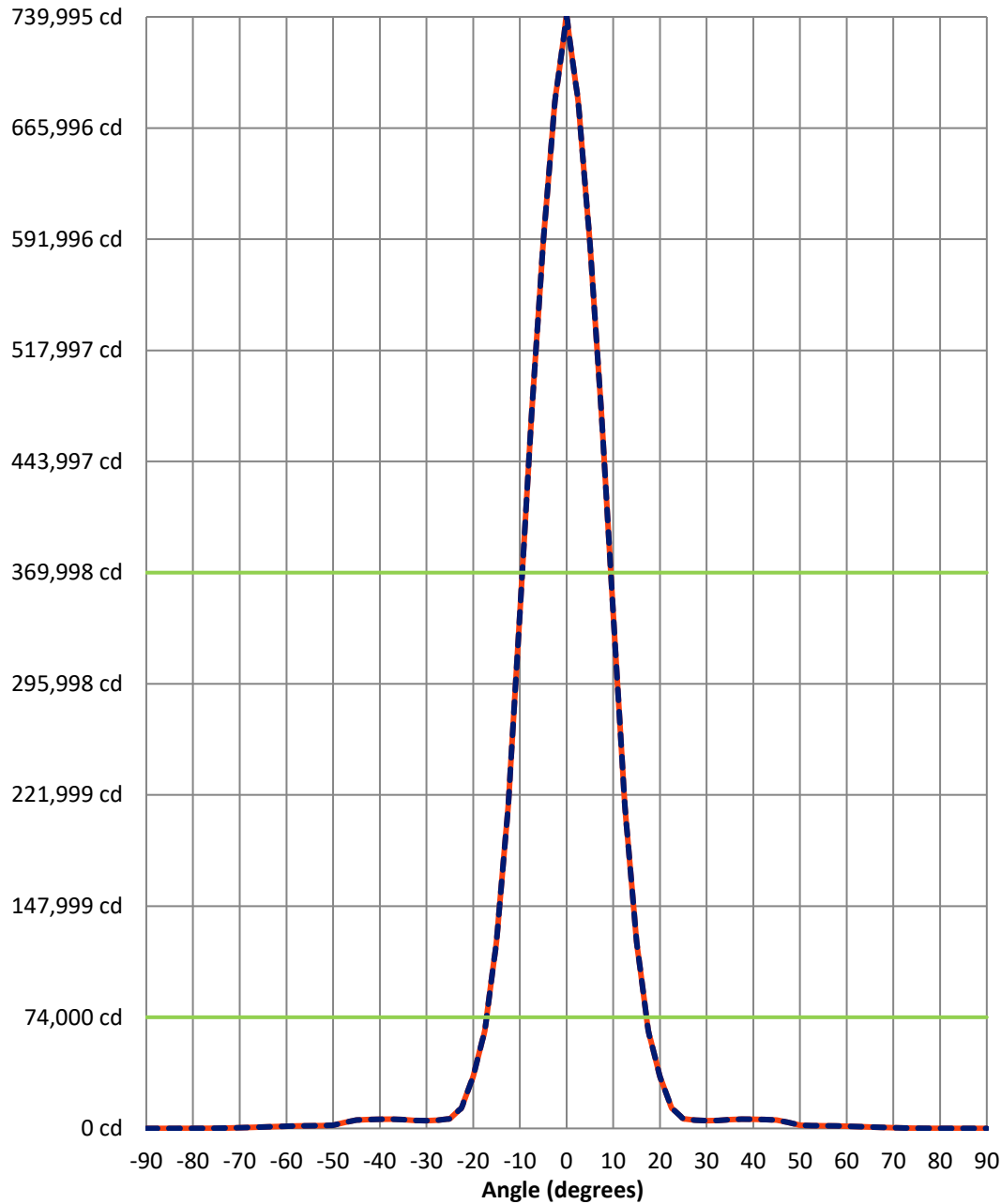
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 19°
 V Angle: 19°
 Lumens: 43206.4
 Efficiency: 43.1%

Field:
 H Angle: 34.3°
 V Angle: 34.3°
 Lumens: 79595.6
 Efficiency: 79.4%

Spill:
 Lumens: 20648.2
 Efficiency: 20.6%

- 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	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0
85°	0.0	0.6	1.2	1.9	2.5	3.1	3.7	4.3	4.9	5.4	6.0
82.5°	0.0	0.9	1.9	2.8	3.7	4.6	5.5	6.4	7.2	7.9	8.5
80°	0.0	1.2	2.5	3.7	4.9	6.1	7.3	8.1	9.0	9.9	10.7
77.5°	0.0	1.5	3.1	4.6	6.1	7.5	8.6	9.7	10.8	11.9	13.5
75°	0.0	1.8	3.7	5.5	7.3	8.6	9.9	11.3	12.7	15.3	17.8
72.5°	0.0	2.1	4.3	6.4	8.1	9.7	11.3	13.2	16.2	19.2	22.2
70°	0.0	2.4	4.9	7.2	9.0	10.8	12.7	16.2	19.7	23.1	27.0
67.5°	0.0	2.7	5.4	7.9	9.9	11.9	15.3	19.2	23.1	27.6	32.0
65°	0.0	3.0	6.0	8.5	10.7	13.5	17.8	22.2	27.0	32.0	37.9
62.5°	0.0	3.3	6.6	9.1	11.5	15.5	20.3	25.4	30.9	36.9	46.1
60°	0.0	3.5	7.1	9.7	12.4	17.5	22.7	28.7	34.6	44.2	54.1
57.5°	0.0	3.8	7.5	10.3	13.9	19.5	25.4	31.9	40.4	51.3	74.4
55°	0.0	4.1	7.9	10.9	15.4	21.4	28.1	35.1	46.6	61.8	100.0
52.5°	0.0	4.3	8.2	11.5	16.9	23.4	30.8	40.1	52.6	84.3	125.0
50°	0.0	4.6	8.6	12.0	18.4	25.5	33.3	45.2	62.4	106.0	171.9
47.5°	0.0	4.8	9.0	12.7	19.8	27.5	36.0	50.1	81.1	127.1	220.0
45°	0.0	5.0	9.3	13.7	21.1	29.5	40.0	54.8	99.1	168.3	266.4
42.5°	0.0	5.2	9.6	14.6	22.4	31.3	43.9	65.5	116.4	208.3	324.4
40°	0.0	5.4	9.9	15.5	23.7	33.1	47.6	79.9	138.6	246.6	382.2
37.5°	0.0	5.6	10.2	16.4	25.1	34.8	51.2	93.6	170.9	286.6	437.3
35°	0.0	5.8	10.5	17.2	26.4	37.2	54.5	106.6	201.4	333.4	491.6
32.5°	0.0	6.0	10.7	18.0	27.6	39.8	59.8	118.8	230.2	377.5	545.8
30°	0.0	6.1	11.0	18.7	28.7	42.2	69.5	133.1	257.2	418.8	596.6
27.5°	0.0	6.3	11.2	19.4	29.7	44.5	78.6	154.9	285.5	457.2	644.0
25°	0.0	6.4	11.4	20.0	30.7	46.6	86.9	175.0	316.8	495.0	688.0
22.5°	0.0	6.6	11.6	20.6	31.6	48.5	94.5	193.3	345.3	530.6	736.1
20°	0.0	6.7	11.8	21.1	32.4	50.2	101.4	209.8	371.0	562.6	779.5
17.5°	0.0	6.8	11.9	21.5	33.1	51.7	107.5	224.4	393.9	591.2	818.1
15°	0.0	6.9	12.0	21.9	33.7	53.0	112.8	237.2	413.8	616.1	851.8
12.5°	0.0	6.9	12.1	22.2	34.2	54.1	117.3	248.0	430.8	637.2	880.5
10°	0.0	7.0	12.2	22.5	34.6	55.1	121.0	257.0	444.7	654.7	904.1
7.5°	0.0	7.0	12.3	22.7	35.0	55.8	123.9	263.9	455.6	668.3	922.5
5°	0.0	7.1	12.4	22.9	35.2	56.3	125.9	268.9	463.4	678.0	935.7
2.5°	0.0	7.1	12.4	23.0	35.4	56.6	127.2	271.9	468.0	683.8	943.7
0°	0.0	7.1	12.4	23.0	35.4	56.6	127.2	271.9	468.0	683.8	943.7
-2.5°	0.0	7.1	12.4	23.0	35.4	56.6	127.2	271.9	468.0	683.8	943.7
-5°	0.0	7.1	12.4	22.9	35.2	56.3	125.9	268.9	463.4	678.0	935.7
-7.5°	0.0	7.0	12.3	22.7	35.0	55.8	123.9	263.9	455.6	668.3	922.5
-10°	0.0	7.0	12.2	22.5	34.6	55.1	121.0	257.0	444.7	654.7	904.1
-12.5°	0.0	6.9	12.1	22.2	34.2	54.1	117.3	248.0	430.8	637.2	880.5
-15°	0.0	6.9	12.0	21.9	33.7	53.0	112.8	237.2	413.8	616.1	851.8
-17.5°	0.0	6.8	11.9	21.5	33.1	51.7	107.5	224.4	393.9	591.2	818.1
-20°	0.0	6.7	11.8	21.1	32.4	50.2	101.4	209.8	371.0	562.6	779.5



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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	6.6	11.6	20.6	31.6	48.5	94.5	193.3	345.3	530.6	736.1
-25°	0.0	6.4	11.4	20.0	30.7	46.6	86.9	175.0	316.8	495.0	688.0
-27.5°	0.0	6.3	11.2	19.4	29.7	44.5	78.6	154.9	285.5	457.2	644.0
-30°	0.0	6.1	11.0	18.7	28.7	42.2	69.5	133.1	257.2	418.8	596.6
-32.5°	0.0	6.0	10.7	18.0	27.6	39.8	59.8	118.8	230.2	377.5	545.8
-35°	0.0	5.8	10.5	17.2	26.4	37.2	54.5	106.6	201.4	333.4	491.6
-37.5°	0.0	5.6	10.2	16.4	25.1	34.8	51.2	93.6	170.9	286.6	437.3
-40°	0.0	5.4	9.9	15.5	23.7	33.1	47.6	79.9	138.6	246.6	382.2
-42.5°	0.0	5.2	9.6	14.6	22.4	31.3	43.9	65.5	116.4	208.3	324.4
-45°	0.0	5.0	9.3	13.7	21.1	29.5	40.0	54.8	99.1	168.3	266.4
-47.5°	0.0	4.8	9.0	12.7	19.8	27.5	36.0	50.1	81.1	127.1	220.0
-50°	0.0	4.6	8.6	12.0	18.4	25.5	33.3	45.2	62.4	106.0	171.9
-52.5°	0.0	4.3	8.2	11.5	16.9	23.4	30.8	40.1	52.6	84.3	125.0
-55°	0.0	4.1	7.9	10.9	15.4	21.4	28.1	35.1	46.6	61.8	100.0
-57.5°	0.0	3.8	7.5	10.3	13.9	19.5	25.4	31.9	40.4	51.3	74.4
-60°	0.0	3.5	7.1	9.7	12.4	17.5	22.7	28.7	34.6	44.2	54.1
-62.5°	0.0	3.3	6.6	9.1	11.5	15.5	20.3	25.4	30.9	36.9	46.1
-65°	0.0	3.0	6.0	8.5	10.7	13.5	17.8	22.2	27.0	32.0	37.9
-67.5°	0.0	2.7	5.4	7.9	9.9	11.9	15.3	19.2	23.1	27.6	32.0
-70°	0.0	2.4	4.9	7.2	9.0	10.8	12.7	16.2	19.7	23.1	27.0
-72.5°	0.0	2.1	4.3	6.4	8.1	9.7	11.3	13.2	16.2	19.2	22.2
-75°	0.0	1.8	3.7	5.5	7.3	8.6	9.9	11.3	12.7	15.3	17.8
-77.5°	0.0	1.5	3.1	4.6	6.1	7.5	8.6	9.7	10.8	11.9	13.5
-80°	0.0	1.2	2.5	3.7	4.9	6.1	7.3	8.1	9.0	9.9	10.7
-82.5°	0.0	0.9	1.9	2.8	3.7	4.6	5.5	6.4	7.2	7.9	8.5
-85°	0.0	0.6	1.2	1.9	2.5	3.1	3.7	4.3	4.9	5.4	6.0
-87.5°	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	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



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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°	3.3	3.5	3.8	4.1	4.3	4.6	4.8	5.0	5.2	5.4	5.6
85°	6.6	7.1	7.5	7.9	8.2	8.6	9.0	9.3	9.6	9.9	10.2
82.5°	9.1	9.7	10.3	10.9	11.5	12.0	12.7	13.7	14.6	15.5	16.4
80°	11.5	12.4	13.9	15.4	16.9	18.4	19.8	21.1	22.4	23.7	25.1
77.5°	15.5	17.5	19.5	21.4	23.4	25.5	27.5	29.5	31.3	33.1	34.8
75°	20.3	22.7	25.4	28.1	30.8	33.3	36.0	40.0	43.9	47.6	51.2
72.5°	25.4	28.7	31.9	35.1	40.1	45.2	50.1	54.8	65.5	79.9	93.6
70°	30.9	34.6	40.4	46.6	52.6	62.4	81.1	99.1	116.4	138.6	170.9
67.5°	36.9	44.2	51.3	61.8	84.3	106.0	127.1	168.3	208.3	246.6	286.6
65°	46.1	54.1	74.4	100.0	125.0	171.9	220.0	266.4	324.4	382.2	437.3
62.5°	55.1	80.8	109.6	148.4	204.6	259.3	326.2	395.4	462.0	531.4	598.4
60°	80.8	112.8	161.5	224.4	290.3	371.0	449.3	530.6	610.7	688.0	776.5
57.5°	109.6	161.5	231.0	308.3	398.2	487.3	580.7	671.0	773.0	873.9	971.2
55°	148.4	224.4	308.3	407.2	507.4	611.0	717.0	834.5	948.1	1061.0	1169.1
52.5°	204.6	290.3	398.2	507.4	621.1	741.6	871.8	999.8	1126.0	1245.3	1353.5
50°	259.3	371.0	487.3	611.0	741.6	884.2	1025.8	1165.4	1294.4	1415.4	1523.1
47.5°	326.2	449.3	580.7	717.0	871.8	1025.8	1178.6	1319.2	1452.9	1567.2	1675.6
45°	395.4	530.6	671.0	834.5	999.8	1165.4	1319.2	1465.5	1589.4	1691.8	1729.5
42.5°	462.0	610.7	773.0	948.1	1126.0	1294.4	1452.9	1589.4	1695.5	1736.9	1784.8
40°	531.4	688.0	873.9	1061.0	1245.3	1415.4	1567.2	1691.8	1736.9	1790.0	1847.2
37.5°	598.4	776.5	971.2	1169.1	1353.5	1523.1	1675.6	1729.5	1784.8	1847.2	2018.7
35°	662.0	860.7	1066.1	1268.0	1456.7	1619.9	1714.6	1769.5	1836.7	2003.0	2526.9
32.5°	729.5	940.2	1155.9	1358.6	1543.3	1692.7	1746.8	1815.9	1956.3	2313.7	3620.0
30°	797.4	1017.3	1238.7	1443.9	1623.8	1721.0	1785.3	1879.3	2094.2	3293.8	4561.4
27.5°	860.7	1089.3	1311.9	1516.2	1688.6	1747.5	1823.8	2000.6	2757.7	4186.1	5399.8
25°	919.1	1155.9	1379.6	1580.7	1711.3	1778.5	1878.6	2113.8	3567.9	4922.1	5701.5
22.5°	973.4	1216.8	1441.7	1639.8	1732.3	1809.1	1975.5	2718.7	4268.3	5579.8	5854.6
20°	1023.4	1268.0	1493.8	1686.7	1751.3	1836.9	2063.8	3353.8	4848.9	5710.4	5958.5
17.5°	1067.8	1313.6	1537.5	1702.2	1773.1	1884.7	2215.6	3924.1	5371.4	5828.3	6035.2
15°	1106.6	1353.5	1575.7	1715.8	1793.2	1948.6	2678.6	4360.2	5627.2	5920.7	6101.8
12.5°	1139.7	1387.4	1608.3	1727.5	1810.4	2003.4	3075.2	4725.2	5710.0	5974.8	6120.1
10°	1166.9	1415.4	1635.2	1737.1	1824.5	2048.6	3403.2	5027.5	5778.6	6019.7	6135.4
7.5°	1188.1	1437.3	1656.2	1744.6	1835.6	2084.1	3660.5	5264.8	5832.5	6055.1	6147.5
5°	1203.4	1452.9	1671.3	1750.0	1843.6	2109.5	3845.5	5435.7	5871.4	6080.6	6156.2
2.5°	1212.5	1462.4	1680.4	1753.2	1848.4	2124.9	3957.0	5538.7	5894.9	6096.0	6161.4
0°	1215.6	1465.5	1683.4	1754.3	1850.0	2130.0	3994.2	5573.1	5902.7	6101.2	6163.2
-2.5°	1212.5	1462.4	1680.4	1753.2	1848.4	2124.9	3957.0	5538.7	5894.9	6096.0	6161.4
-5°	1203.4	1452.9	1671.3	1750.0	1843.6	2109.5	3845.5	5435.7	5871.4	6080.6	6156.2
-7.5°	1188.1	1437.3	1656.2	1744.6	1835.6	2084.1	3660.5	5264.8	5832.5	6055.1	6147.5
-10°	1166.9	1415.4	1635.2	1737.1	1824.5	2048.6	3403.2	5027.5	5778.6	6019.7	6135.4
-12.5°	1139.7	1387.4	1608.3	1727.5	1810.4	2003.4	3075.2	4725.2	5710.0	5974.8	6120.1
-15°	1106.6	1353.5	1575.7	1715.8	1793.2	1948.6	2678.6	4360.2	5627.2	5920.7	6101.8
-17.5°	1067.8	1313.6	1537.5	1702.2	1773.1	1884.7	2215.6	3924.1	5371.4	5828.3	6035.2
-20°	1023.4	1268.0	1493.8	1686.7	1751.3	1836.9	2063.8	3353.8	4848.9	5710.4	5958.5



REPORT NUMBER: P731270 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-1S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	973.4	1216.8	1441.7	1639.8	1732.3	1809.1	1975.5	2718.7	4268.3	5579.8	5854.6
-25°	919.1	1155.9	1379.6	1580.7	1711.3	1778.5	1878.6	2113.8	3567.9	4922.1	5701.5
-27.5°	860.7	1089.3	1311.9	1516.2	1688.6	1747.5	1823.8	2000.6	2757.7	4186.1	5399.8
-30°	797.4	1017.3	1238.7	1443.9	1623.8	1721.0	1785.3	1879.3	2094.2	3293.8	4561.4
-32.5°	729.5	940.2	1155.9	1358.6	1543.3	1692.7	1746.8	1815.9	1956.3	2313.7	3620.0
-35°	662.0	860.7	1066.1	1268.0	1456.7	1619.9	1714.6	1769.5	1836.7	2003.0	2526.9
-37.5°	598.4	776.5	971.2	1169.1	1353.5	1523.1	1675.6	1729.5	1784.8	1847.2	2018.7
-40°	531.4	688.0	873.9	1061.0	1245.3	1415.4	1567.2	1691.8	1736.9	1790.0	1847.2
-42.5°	462.0	610.7	773.0	948.1	1126.0	1294.4	1452.9	1589.4	1695.5	1736.9	1784.8
-45°	395.4	530.6	671.0	834.5	999.8	1165.4	1319.2	1465.5	1589.4	1691.8	1729.5
-47.5°	326.2	449.3	580.7	717.0	871.8	1025.8	1178.6	1319.2	1452.9	1567.2	1675.6
-50°	259.3	371.0	487.3	611.0	741.6	884.2	1025.8	1165.4	1294.4	1415.4	1523.1
-52.5°	204.6	290.3	398.2	507.4	621.1	741.6	871.8	999.8	1126.0	1245.3	1353.5
-55°	148.4	224.4	308.3	407.2	507.4	611.0	717.0	834.5	948.1	1061.0	1169.1
-57.5°	109.6	161.5	231.0	308.3	398.2	487.3	580.7	671.0	773.0	873.9	971.2
-60°	80.8	112.8	161.5	224.4	290.3	371.0	449.3	530.6	610.7	688.0	776.5
-62.5°	55.1	80.8	109.6	148.4	204.6	259.3	326.2	395.4	462.0	531.4	598.4
-65°	46.1	54.1	74.4	100.0	125.0	171.9	220.0	266.4	324.4	382.2	437.3
-67.5°	36.9	44.2	51.3	61.8	84.3	106.0	127.1	168.3	208.3	246.6	286.6
-70°	30.9	34.6	40.4	46.6	52.6	62.4	81.1	99.1	116.4	138.6	170.9
-72.5°	25.4	28.7	31.9	35.1	40.1	45.2	50.1	54.8	65.5	79.9	93.6
-75°	20.3	22.7	25.4	28.1	30.8	33.3	36.0	40.0	43.9	47.6	51.2
-77.5°	15.5	17.5	19.5	21.4	23.4	25.5	27.5	29.5	31.3	33.1	34.8
-80°	11.5	12.4	13.9	15.4	16.9	18.4	19.8	21.1	22.4	23.7	25.1
-82.5°	9.1	9.7	10.3	10.9	11.5	12.0	12.7	13.7	14.6	15.5	16.4
-85°	6.6	7.1	7.5	7.9	8.2	8.6	9.0	9.3	9.6	9.9	10.2
-87.5°	3.3	3.5	3.8	4.1	4.3	4.6	4.8	5.0	5.2	5.4	5.6
-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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 CATALOG NUMBER: EPH-LS-08-0680N-40-70-1S-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°	5.8	6.0	6.1	6.3	6.4	6.6	6.7	6.8	6.9	6.9	7.0
85°	10.5	10.7	11.0	11.2	11.4	11.6	11.8	11.9	12.0	12.1	12.2
82.5°	17.2	18.0	18.7	19.4	20.0	20.6	21.1	21.5	21.9	22.2	22.5
80°	26.4	27.6	28.7	29.7	30.7	31.6	32.4	33.1	33.7	34.2	34.6
77.5°	37.2	39.8	42.2	44.5	46.6	48.5	50.2	51.7	53.0	54.1	55.1
75°	54.5	59.8	69.5	78.6	86.9	94.5	101.4	107.5	112.8	117.3	121.0
72.5°	106.6	118.8	133.1	154.9	175.0	193.3	209.8	224.4	237.2	248.0	257.0
70°	201.4	230.2	257.2	285.5	316.8	345.3	371.0	393.9	413.8	430.8	444.7
67.5°	333.4	377.5	418.8	457.2	495.0	530.6	562.6	591.2	616.1	637.2	654.7
65°	491.6	545.8	596.6	644.0	688.0	736.1	779.5	818.1	851.8	880.5	904.1
62.5°	662.0	729.5	797.4	860.7	919.1	973.4	1023.4	1067.8	1106.6	1139.7	1166.9
60°	860.7	940.2	1017.3	1089.3	1155.9	1216.8	1268.0	1313.6	1353.5	1387.4	1415.4
57.5°	1066.1	1155.9	1238.7	1311.9	1379.6	1441.7	1493.8	1537.5	1575.7	1608.3	1635.2
55°	1268.0	1358.6	1443.9	1516.2	1580.7	1639.8	1686.7	1702.2	1715.8	1727.5	1737.1
52.5°	1456.7	1543.3	1623.8	1688.6	1711.3	1732.3	1751.3	1773.1	1793.2	1810.4	1824.5
50°	1619.9	1692.7	1721.0	1747.5	1778.5	1809.1	1836.9	1884.7	1948.6	2003.4	2048.6
47.5°	1714.6	1746.8	1785.3	1823.8	1878.6	1975.5	2063.8	2215.6	2678.6	3075.2	3403.2
45°	1769.5	1815.9	1879.3	2000.6	2113.8	2718.7	3353.8	3924.1	4360.2	4725.2	5027.5
42.5°	1836.7	1956.3	2094.2	2757.7	3567.9	4268.3	4848.9	5371.4	5627.2	5710.0	5778.6
40°	2003.0	2313.7	3293.8	4186.1	4922.1	5579.8	5710.4	5828.3	5920.7	5974.8	6019.7
37.5°	2526.9	3620.0	4561.4	5399.8	5701.5	5854.6	5958.5	6035.2	6101.8	6120.1	6135.4
35°	3729.5	4751.2	5597.7	5784.3	5937.4	6036.3	6109.4	6135.3	6158.3	6092.5	6014.0
32.5°	4751.2	5618.1	5826.2	5976.2	6089.4	6130.6	6161.3	6040.6	5923.1	5774.6	5609.7
30°	5597.7	5826.2	5989.3	6105.9	6143.6	6088.4	5932.9	5716.6	5470.9	5294.4	5248.4
27.5°	5784.3	5976.2	6105.9	6148.0	6045.7	5863.2	5541.3	5291.5	5223.6	5164.0	5286.1
25°	5937.4	6089.4	6143.6	6045.7	5820.2	5452.0	5256.1	5174.6	5317.5	5476.7	5774.4
22.5°	6036.3	6130.6	6088.4	5863.2	5452.0	5244.1	5198.2	5413.2	5767.7	6233.0	7849.0
20°	6109.4	6161.3	5932.9	5541.3	5256.1	5198.2	5445.7	5949.9	6987.4	10936.1	15608.5
17.5°	6135.3	6040.6	5716.6	5291.5	5174.6	5413.2	5949.9	7742.2	12536.6	22930.5	33895.7
15°	6158.3	5923.1	5470.9	5223.6	5317.5	5767.7	6987.4	12536.6	25441.9	41496.9	59524.2
12.5°	6092.5	5774.6	5294.4	5164.0	5476.7	6233.0	10936.1	22930.5	41496.9	63902.6	101854.2
10°	6014.0	5609.7	5248.4	5286.1	5774.4	7849.0	15608.5	33895.7	59524.2	101854.2	153380.2
7.5°	5952.0	5478.9	5211.9	5384.5	6064.3	10338.0	23644.3	46897.2	83463.9	139203.6	215369.4
5°	5907.1	5384.1	5185.3	5456.2	6276.8	12173.0	29614.3	56887.7	105767.3	176903.4	278497.5
2.5°	5879.9	5326.6	5169.1	5499.9	6406.6	13298.8	33298.2	63103.1	119810.1	204084.6	325725.5
0°	5870.8	5307.3	5163.7	5514.6	6450.3	13678.4	34544.3	65214.9	124614.0	214398.4	342595.4
-2.5°	5879.9	5326.6	5169.1	5499.9	6406.6	13298.8	33298.2	63103.1	119810.1	204084.6	325725.5
-5°	5907.1	5384.1	5185.3	5456.2	6276.8	12173.0	29614.3	56887.7	105767.3	176903.4	278497.5
-7.5°	5952.0	5478.9	5211.9	5384.5	6064.3	10338.0	23644.3	46897.2	83463.9	139203.6	215369.4
-10°	6014.0	5609.7	5248.4	5286.1	5774.4	7849.0	15608.5	33895.7	59524.2	101854.2	153380.2
-12.5°	6092.5	5774.6	5294.4	5164.0	5476.7	6233.0	10936.1	22930.5	41496.9	63902.6	101854.2
-15°	6158.3	5923.1	5470.9	5223.6	5317.5	5767.7	6987.4	12536.6	25441.9	41496.9	59524.2
-17.5°	6135.3	6040.6	5716.6	5291.5	5174.6	5413.2	5949.9	7742.2	12536.6	22930.5	33895.7
-20°	6109.4	6161.3	5932.9	5541.3	5256.1	5198.2	5445.7	5949.9	6987.4	10936.1	15608.5



REPORT NUMBER: P731270 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	6036.3	6130.6	6088.4	5863.2	5452.0	5244.1	5198.2	5413.2	5767.7	6233.0	7849.0
-25°	5937.4	6089.4	6143.6	6045.7	5820.2	5452.0	5256.1	5174.6	5317.5	5476.7	5774.4
-27.5°	5784.3	5976.2	6105.9	6148.0	6045.7	5863.2	5541.3	5291.5	5223.6	5164.0	5286.1
-30°	5597.7	5826.2	5989.3	6105.9	6143.6	6088.4	5932.9	5716.6	5470.9	5294.4	5248.4
-32.5°	4751.2	5618.1	5826.2	5976.2	6089.4	6130.6	6161.3	6040.6	5923.1	5774.6	5609.7
-35°	3729.5	4751.2	5597.7	5784.3	5937.4	6036.3	6109.4	6135.3	6158.3	6092.5	6014.0
-37.5°	2526.9	3620.0	4561.4	5399.8	5701.5	5854.6	5958.5	6035.2	6101.8	6120.1	6135.4
-40°	2003.0	2313.7	3293.8	4186.1	4922.1	5579.8	5710.4	5828.3	5920.7	5974.8	6019.7
-42.5°	1836.7	1956.3	2094.2	2757.7	3567.9	4268.3	4848.9	5371.4	5627.2	5710.0	5778.6
-45°	1769.5	1815.9	1879.3	2000.6	2113.8	2718.7	3353.8	3924.1	4360.2	4725.2	5027.5
-47.5°	1714.6	1746.8	1785.3	1823.8	1878.6	1975.5	2063.8	2215.6	2678.6	3075.2	3403.2
-50°	1619.9	1692.7	1721.0	1747.5	1778.5	1809.1	1836.9	1884.7	1948.6	2003.4	2048.6
-52.5°	1456.7	1543.3	1623.8	1688.6	1711.3	1732.3	1751.3	1773.1	1793.2	1810.4	1824.5
-55°	1268.0	1358.6	1443.9	1516.2	1580.7	1639.8	1686.7	1702.2	1715.8	1727.5	1737.1
-57.5°	1066.1	1155.9	1238.7	1311.9	1379.6	1441.7	1493.8	1537.5	1575.7	1608.3	1635.2
-60°	860.7	940.2	1017.3	1089.3	1155.9	1216.8	1268.0	1313.6	1353.5	1387.4	1415.4
-62.5°	662.0	729.5	797.4	860.7	919.1	973.4	1023.4	1067.8	1106.6	1139.7	1166.9
-65°	491.6	545.8	596.6	644.0	688.0	736.1	779.5	818.1	851.8	880.5	904.1
-67.5°	333.4	377.5	418.8	457.2	495.0	530.6	562.6	591.2	616.1	637.2	654.7
-70°	201.4	230.2	257.2	285.5	316.8	345.3	371.0	393.9	413.8	430.8	444.7
-72.5°	106.6	118.8	133.1	154.9	175.0	193.3	209.8	224.4	237.2	248.0	257.0
-75°	54.5	59.8	69.5	78.6	86.9	94.5	101.4	107.5	112.8	117.3	121.0
-77.5°	37.2	39.8	42.2	44.5	46.6	48.5	50.2	51.7	53.0	54.1	55.1
-80°	26.4	27.6	28.7	29.7	30.7	31.6	32.4	33.1	33.7	34.2	34.6
-82.5°	17.2	18.0	18.7	19.4	20.0	20.6	21.1	21.5	21.9	22.2	22.5
-85°	10.5	10.7	11.0	11.2	11.4	11.6	11.8	11.9	12.0	12.1	12.2
-87.5°	5.8	6.0	6.1	6.3	6.4	6.6	6.7	6.8	6.9	6.9	7.0
-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: P731270 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-1S-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°	7.0	7.1	7.1	7.1	7.1	7.1	7.0	7.0	6.9	6.9	6.8
85°	12.3	12.4	12.4	12.4	12.4	12.4	12.3	12.2	12.1	12.0	11.9
82.5°	22.7	22.9	23.0	23.0	23.0	22.9	22.7	22.5	22.2	21.9	21.5
80°	35.0	35.2	35.4	35.4	35.4	35.2	35.0	34.6	34.2	33.7	33.1
77.5°	55.8	56.3	56.6	56.7	56.6	56.3	55.8	55.1	54.1	53.0	51.7
75°	123.9	125.9	127.2	127.6	127.2	125.9	123.9	121.0	117.3	112.8	107.5
72.5°	263.9	268.9	271.9	272.9	271.9	268.9	263.9	257.0	248.0	237.2	224.4
70°	455.6	463.4	468.0	469.6	468.0	463.4	455.6	444.7	430.8	413.8	393.9
67.5°	668.3	678.0	683.8	685.8	683.8	678.0	668.3	654.7	637.2	616.1	591.2
65°	922.5	935.7	943.7	946.3	943.7	935.7	922.5	904.1	880.5	851.8	818.1
62.5°	1188.1	1203.4	1212.5	1215.6	1212.5	1203.4	1188.1	1166.9	1139.7	1106.6	1067.8
60°	1437.3	1452.9	1462.4	1465.5	1462.4	1452.9	1437.3	1415.4	1387.4	1353.5	1313.6
57.5°	1656.2	1671.3	1680.4	1683.4	1680.4	1671.3	1656.2	1635.2	1608.3	1575.7	1537.5
55°	1744.6	1750.0	1753.2	1754.3	1753.2	1750.0	1744.6	1737.1	1727.5	1715.8	1702.2
52.5°	1835.6	1843.6	1848.4	1850.0	1848.4	1843.6	1835.6	1824.5	1810.4	1793.2	1773.1
50°	2084.1	2109.5	2124.9	2130.0	2124.9	2109.5	2084.1	2048.6	2003.4	1948.6	1884.7
47.5°	3660.5	3845.5	3957.0	3994.2	3957.0	3845.5	3660.5	3403.2	3075.2	2678.6	2215.6
45°	5264.8	5435.7	5538.7	5573.1	5538.7	5435.7	5264.8	5027.5	4725.2	4360.2	3924.1
42.5°	5832.5	5871.4	5894.9	5902.7	5894.9	5871.4	5832.5	5778.6	5710.0	5627.2	5371.4
40°	6055.1	6080.6	6096.0	6101.2	6096.0	6080.6	6055.1	6019.7	5974.8	5920.7	5828.3
37.5°	6147.5	6156.2	6161.4	6163.2	6161.4	6156.2	6147.5	6135.4	6120.1	6101.8	6035.2
35°	5952.0	5907.1	5879.9	5870.8	5879.9	5907.1	5952.0	6014.0	6092.5	6158.3	6135.3
32.5°	5478.9	5384.1	5326.6	5307.3	5326.6	5384.1	5478.9	5609.7	5774.6	5923.1	6040.6
30°	5211.9	5185.3	5169.1	5163.7	5169.1	5185.3	5211.9	5248.4	5294.4	5470.9	5716.6
27.5°	5384.5	5456.2	5499.9	5514.6	5499.9	5456.2	5384.5	5286.1	5164.0	5223.6	5291.5
25°	6064.3	6276.8	6406.6	6450.3	6406.6	6276.8	6064.3	5774.4	5476.7	5317.5	5174.6
22.5°	10338.0	12173.0	13298.8	13678.4	13298.8	12173.0	10338.0	7849.0	6233.0	5767.7	5413.2
20°	23644.3	29614.3	33298.2	34544.3	33298.2	29614.3	23644.3	15608.5	10936.1	6987.4	5949.9
17.5°	46897.2	56887.7	63103.1	65214.9	63103.1	56887.7	46897.2	33895.7	22930.5	12536.6	7742.2
15°	83463.9	105767.3	119810.1	124614.0	119810.1	105767.3	83463.9	59524.2	41496.9	25441.9	12536.6
12.5°	139203.6	176903.4	204084.6	214398.4	204084.6	176903.4	139203.6	101854.2	63902.6	41496.9	22930.5
10°	215369.4	278497.5	325725.5	342595.4	325725.5	278497.5	215369.4	153380.2	101854.2	59524.2	33895.7
7.5°	309849.3	394695.9	454313.9	474612.2	454313.9	394695.9	309849.3	215369.4	139203.6	83463.9	46897.2
5°	394695.9	496419.5	564458.4	589627.9	564458.4	496419.5	394695.9	278497.5	176903.4	105767.3	56887.7
2.5°	454313.9	564458.4	645191.9	683472.9	645191.9	564458.4	454313.9	325725.5	204084.6	119810.1	63103.1
0°	474612.2	589627.9	683472.9	739995.0	683472.9	589627.9	474612.2	342595.4	214398.4	124614.0	65214.9
-2.5°	454313.9	564458.4	645191.9	683472.9	645191.9	564458.4	454313.9	325725.5	204084.6	119810.1	63103.1
-5°	394695.9	496419.5	564458.4	589627.9	564458.4	496419.5	394695.9	278497.5	176903.4	105767.3	56887.7
-7.5°	309849.3	394695.9	454313.9	474612.2	454313.9	394695.9	309849.3	215369.4	139203.6	83463.9	46897.2
-10°	215369.4	278497.5	325725.5	342595.4	325725.5	278497.5	215369.4	153380.2	101854.2	59524.2	33895.7
-12.5°	139203.6	176903.4	204084.6	214398.4	204084.6	176903.4	139203.6	101854.2	63902.6	41496.9	22930.5
-15°	83463.9	105767.3	119810.1	124614.0	119810.1	105767.3	83463.9	59524.2	41496.9	25441.9	12536.6
-17.5°	46897.2	56887.7	63103.1	65214.9	63103.1	56887.7	46897.2	33895.7	22930.5	12536.6	7742.2
-20°	23644.3	29614.3	33298.2	34544.3	33298.2	29614.3	23644.3	15608.5	10936.1	6987.4	5949.9



REPORT NUMBER: P731270 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	10338.0	12173.0	13298.8	13678.4	13298.8	12173.0	10338.0	7849.0	6233.0	5767.7	5413.2
-25°	6064.3	6276.8	6406.6	6450.3	6406.6	6276.8	6064.3	5774.4	5476.7	5317.5	5174.6
-27.5°	5384.5	5456.2	5499.9	5514.6	5499.9	5456.2	5384.5	5286.1	5164.0	5223.6	5291.5
-30°	5211.9	5185.3	5169.1	5163.7	5169.1	5185.3	5211.9	5248.4	5294.4	5470.9	5716.6
-32.5°	5478.9	5384.1	5326.6	5307.3	5326.6	5384.1	5478.9	5609.7	5774.6	5923.1	6040.6
-35°	5952.0	5907.1	5879.9	5870.8	5879.9	5907.1	5952.0	6014.0	6092.5	6158.3	6135.3
-37.5°	6147.5	6156.2	6161.4	6163.2	6161.4	6156.2	6147.5	6135.4	6120.1	6101.8	6035.2
-40°	6055.1	6080.6	6096.0	6101.2	6096.0	6080.6	6055.1	6019.7	5974.8	5920.7	5828.3
-42.5°	5832.5	5871.4	5894.9	5902.7	5894.9	5871.4	5832.5	5778.6	5710.0	5627.2	5371.4
-45°	5264.8	5435.7	5538.7	5573.1	5538.7	5435.7	5264.8	5027.5	4725.2	4360.2	3924.1
-47.5°	3660.5	3845.5	3957.0	3994.2	3957.0	3845.5	3660.5	3403.2	3075.2	2678.6	2215.6
-50°	2084.1	2109.5	2124.9	2130.0	2124.9	2109.5	2084.1	2048.6	2003.4	1948.6	1884.7
-52.5°	1835.6	1843.6	1848.4	1850.0	1848.4	1843.6	1835.6	1824.5	1810.4	1793.2	1773.1
-55°	1744.6	1750.0	1753.2	1754.3	1753.2	1750.0	1744.6	1737.1	1727.5	1715.8	1702.2
-57.5°	1656.2	1671.3	1680.4	1683.4	1680.4	1671.3	1656.2	1635.2	1608.3	1575.7	1537.5
-60°	1437.3	1452.9	1462.4	1465.5	1462.4	1452.9	1437.3	1415.4	1387.4	1353.5	1313.6
-62.5°	1188.1	1203.4	1212.5	1215.6	1212.5	1203.4	1188.1	1166.9	1139.7	1106.6	1067.8
-65°	922.5	935.7	943.7	946.3	943.7	935.7	922.5	904.1	880.5	851.8	818.1
-67.5°	668.3	678.0	683.8	685.8	683.8	678.0	668.3	654.7	637.2	616.1	591.2
-70°	455.6	463.4	468.0	469.6	468.0	463.4	455.6	444.7	430.8	413.8	393.9
-72.5°	263.9	268.9	271.9	272.9	271.9	268.9	263.9	257.0	248.0	237.2	224.4
-75°	123.9	125.9	127.2	127.6	127.2	125.9	123.9	121.0	117.3	112.8	107.5
-77.5°	55.8	56.3	56.6	56.7	56.6	56.3	55.8	55.1	54.1	53.0	51.7
-80°	35.0	35.2	35.4	35.4	35.4	35.2	35.0	34.6	34.2	33.7	33.1
-82.5°	22.7	22.9	23.0	23.0	23.0	22.9	22.7	22.5	22.2	21.9	21.5
-85°	12.3	12.4	12.4	12.4	12.4	12.4	12.3	12.2	12.1	12.0	11.9
-87.5°	7.0	7.1	7.1	7.1	7.1	7.1	7.0	7.0	6.9	6.9	6.8
-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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 CATALOG NUMBER: EPH-LS-08-0680N-40-70-1S-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°	6.7	6.6	6.4	6.3	6.1	6.0	5.8	5.6	5.4	5.2	5.0
85°	11.8	11.6	11.4	11.2	11.0	10.7	10.5	10.2	9.9	9.6	9.3
82.5°	21.1	20.6	20.0	19.4	18.7	18.0	17.2	16.4	15.5	14.6	13.7
80°	32.4	31.6	30.7	29.7	28.7	27.6	26.4	25.1	23.7	22.4	21.1
77.5°	50.2	48.5	46.6	44.5	42.2	39.8	37.2	34.8	33.1	31.3	29.5
75°	101.4	94.5	86.9	78.6	69.5	59.8	54.5	51.2	47.6	43.9	40.0
72.5°	209.8	193.3	175.0	154.9	133.1	118.8	106.6	93.6	79.9	65.5	54.8
70°	371.0	345.3	316.8	285.5	257.2	230.2	201.4	170.9	138.6	116.4	99.1
67.5°	562.6	530.6	495.0	457.2	418.8	377.5	333.4	286.6	246.6	208.3	168.3
65°	779.5	736.1	688.0	644.0	596.6	545.8	491.6	437.3	382.2	324.4	266.4
62.5°	1023.4	973.4	919.1	860.7	797.4	729.5	662.0	598.4	531.4	462.0	395.4
60°	1268.0	1216.8	1155.9	1089.3	1017.3	940.2	860.7	776.5	688.0	610.7	530.6
57.5°	1493.8	1441.7	1379.6	1311.9	1238.7	1155.9	1066.1	971.2	873.9	773.0	671.0
55°	1686.7	1639.8	1580.7	1516.2	1443.9	1358.6	1268.0	1169.1	1061.0	948.1	834.5
52.5°	1751.3	1732.3	1711.3	1688.6	1623.8	1543.3	1456.7	1353.5	1245.3	1126.0	999.8
50°	1836.9	1809.1	1778.5	1747.5	1721.0	1692.7	1619.9	1523.1	1415.4	1294.4	1165.4
47.5°	2063.8	1975.5	1878.6	1823.8	1785.3	1746.8	1714.6	1675.6	1567.2	1452.9	1319.2
45°	3353.8	2718.7	2113.8	2000.6	1879.3	1815.9	1769.5	1729.5	1691.8	1589.4	1465.5
42.5°	4848.9	4268.3	3567.9	2757.7	2094.2	1956.3	1836.7	1784.8	1736.9	1695.5	1589.4
40°	5710.4	5579.8	4922.1	4186.1	3293.8	2313.7	2003.0	1847.2	1790.0	1736.9	1691.8
37.5°	5958.5	5854.6	5701.5	5399.8	4561.4	3620.0	2526.9	2018.7	1847.2	1784.8	1729.5
35°	6109.4	6036.3	5937.4	5784.3	5597.7	4751.2	3729.5	2526.9	2003.0	1836.7	1769.5
32.5°	6161.3	6130.6	6089.4	5976.2	5826.2	5618.1	4751.2	3620.0	2313.7	1956.3	1815.9
30°	5932.9	6088.4	6143.6	6105.9	5989.3	5826.2	5597.7	4561.4	3293.8	2094.2	1879.3
27.5°	5541.3	5863.2	6045.7	6148.0	6105.9	5976.2	5784.3	5399.8	4186.1	2757.7	2000.6
25°	5256.1	5452.0	5820.2	6045.7	6143.6	6089.4	5937.4	5701.5	4922.1	3567.9	2113.8
22.5°	5198.2	5244.1	5452.0	5863.2	6088.4	6130.6	6036.3	5854.6	5579.8	4268.3	2718.7
20°	5445.7	5198.2	5256.1	5541.3	5932.9	6161.3	6109.4	5958.5	5710.4	4848.9	3353.8
17.5°	5949.9	5413.2	5174.6	5291.5	5716.6	6040.6	6135.3	6035.2	5828.3	5371.4	3924.1
15°	6987.4	5767.7	5317.5	5223.6	5470.9	5923.1	6158.3	6101.8	5920.7	5627.2	4360.2
12.5°	10936.1	6233.0	5476.7	5164.0	5294.4	5774.6	6092.5	6120.1	5974.8	5710.0	4725.2
10°	15608.5	7849.0	5774.4	5286.1	5248.4	5609.7	6014.0	6135.4	6019.7	5778.6	5027.5
7.5°	23644.3	10338.0	6064.3	5384.5	5211.9	5478.9	5952.0	6147.5	6055.1	5832.5	5264.8
5°	29614.3	12173.0	6276.8	5456.2	5185.3	5384.1	5907.1	6156.2	6080.6	5871.4	5435.7
2.5°	33298.2	13298.8	6406.6	5499.9	5169.1	5326.6	5879.9	6161.4	6096.0	5894.9	5538.7
0°	34544.3	13678.4	6450.3	5514.6	5163.7	5307.3	5870.8	6163.2	6101.2	5902.7	5573.1
-2.5°	33298.2	13298.8	6406.6	5499.9	5169.1	5326.6	5879.9	6161.4	6096.0	5894.9	5538.7
-5°	29614.3	12173.0	6276.8	5456.2	5185.3	5384.1	5907.1	6156.2	6080.6	5871.4	5435.7
-7.5°	23644.3	10338.0	6064.3	5384.5	5211.9	5478.9	5952.0	6147.5	6055.1	5832.5	5264.8
-10°	15608.5	7849.0	5774.4	5286.1	5248.4	5609.7	6014.0	6135.4	6019.7	5778.6	5027.5
-12.5°	10936.1	6233.0	5476.7	5164.0	5294.4	5774.6	6092.5	6120.1	5974.8	5710.0	4725.2
-15°	6987.4	5767.7	5317.5	5223.6	5470.9	5923.1	6158.3	6101.8	5920.7	5627.2	4360.2
-17.5°	5949.9	5413.2	5174.6	5291.5	5716.6	6040.6	6135.3	6035.2	5828.3	5371.4	3924.1
-20°	5445.7	5198.2	5256.1	5541.3	5932.9	6161.3	6109.4	5958.5	5710.4	4848.9	3353.8



REPORT NUMBER: P731270 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	5198.2	5244.1	5452.0	5863.2	6088.4	6130.6	6036.3	5854.6	5579.8	4268.3	2718.7
-25°	5256.1	5452.0	5820.2	6045.7	6143.6	6089.4	5937.4	5701.5	4922.1	3567.9	2113.8
-27.5°	5541.3	5863.2	6045.7	6148.0	6105.9	5976.2	5784.3	5399.8	4186.1	2757.7	2000.6
-30°	5932.9	6088.4	6143.6	6105.9	5989.3	5826.2	5597.7	4561.4	3293.8	2094.2	1879.3
-32.5°	6161.3	6130.6	6089.4	5976.2	5826.2	5618.1	4751.2	3620.0	2313.7	1956.3	1815.9
-35°	6109.4	6036.3	5937.4	5784.3	5597.7	4751.2	3729.5	2526.9	2003.0	1836.7	1769.5
-37.5°	5958.5	5854.6	5701.5	5399.8	4561.4	3620.0	2526.9	2018.7	1847.2	1784.8	1729.5
-40°	5710.4	5579.8	4922.1	4186.1	3293.8	2313.7	2003.0	1847.2	1790.0	1736.9	1691.8
-42.5°	4848.9	4268.3	3567.9	2757.7	2094.2	1956.3	1836.7	1784.8	1736.9	1695.5	1589.4
-45°	3353.8	2718.7	2113.8	2000.6	1879.3	1815.9	1769.5	1729.5	1691.8	1589.4	1465.5
-47.5°	2063.8	1975.5	1878.6	1823.8	1785.3	1746.8	1714.6	1675.6	1567.2	1452.9	1319.2
-50°	1836.9	1809.1	1778.5	1747.5	1721.0	1692.7	1619.9	1523.1	1415.4	1294.4	1165.4
-52.5°	1751.3	1732.3	1711.3	1688.6	1623.8	1543.3	1456.7	1353.5	1245.3	1126.0	999.8
-55°	1686.7	1639.8	1580.7	1516.2	1443.9	1358.6	1268.0	1169.1	1061.0	948.1	834.5
-57.5°	1493.8	1441.7	1379.6	1311.9	1238.7	1155.9	1066.1	971.2	873.9	773.0	671.0
-60°	1268.0	1216.8	1155.9	1089.3	1017.3	940.2	860.7	776.5	688.0	610.7	530.6
-62.5°	1023.4	973.4	919.1	860.7	797.4	729.5	662.0	598.4	531.4	462.0	395.4
-65°	779.5	736.1	688.0	644.0	596.6	545.8	491.6	437.3	382.2	324.4	266.4
-67.5°	562.6	530.6	495.0	457.2	418.8	377.5	333.4	286.6	246.6	208.3	168.3
-70°	371.0	345.3	316.8	285.5	257.2	230.2	201.4	170.9	138.6	116.4	99.1
-72.5°	209.8	193.3	175.0	154.9	133.1	118.8	106.6	93.6	79.9	65.5	54.8
-75°	101.4	94.5	86.9	78.6	69.5	59.8	54.5	51.2	47.6	43.9	40.0
-77.5°	50.2	48.5	46.6	44.5	42.2	39.8	37.2	34.8	33.1	31.3	29.5
-80°	32.4	31.6	30.7	29.7	28.7	27.6	26.4	25.1	23.7	22.4	21.1
-82.5°	21.1	20.6	20.0	19.4	18.7	18.0	17.2	16.4	15.5	14.6	13.7
-85°	11.8	11.6	11.4	11.2	11.0	10.7	10.5	10.2	9.9	9.6	9.3
-87.5°	6.7	6.6	6.4	6.3	6.1	6.0	5.8	5.6	5.4	5.2	5.0
-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: P731270 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-1S-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°	4.8	4.6	4.3	4.1	3.8	3.5	3.3	3.0	2.7	2.4	2.1
85°	9.0	8.6	8.2	7.9	7.5	7.1	6.6	6.0	5.4	4.9	4.3
82.5°	12.7	12.0	11.5	10.9	10.3	9.7	9.1	8.5	7.9	7.2	6.4
80°	19.8	18.4	16.9	15.4	13.9	12.4	11.5	10.7	9.9	9.0	8.1
77.5°	27.5	25.5	23.4	21.4	19.5	17.5	15.5	13.5	11.9	10.8	9.7
75°	36.0	33.3	30.8	28.1	25.4	22.7	20.3	17.8	15.3	12.7	11.3
72.5°	50.1	45.2	40.1	35.1	31.9	28.7	25.4	22.2	19.2	16.2	13.2
70°	81.1	62.4	52.6	46.6	40.4	34.6	30.9	27.0	23.1	19.7	16.2
67.5°	127.1	106.0	84.3	61.8	51.3	44.2	36.9	32.0	27.6	23.1	19.2
65°	220.0	171.9	125.0	100.0	74.4	54.1	46.1	37.9	32.0	27.0	22.2
62.5°	326.2	259.3	204.6	148.4	109.6	80.8	55.1	46.1	36.9	30.9	25.4
60°	449.3	371.0	290.3	224.4	161.5	112.8	80.8	54.1	44.2	34.6	28.7
57.5°	580.7	487.3	398.2	308.3	231.0	161.5	109.6	74.4	51.3	40.4	31.9
55°	717.0	611.0	507.4	407.2	308.3	224.4	148.4	100.0	61.8	46.6	35.1
52.5°	871.8	741.6	621.1	507.4	398.2	290.3	204.6	125.0	84.3	52.6	40.1
50°	1025.8	884.2	741.6	611.0	487.3	371.0	259.3	171.9	106.0	62.4	45.2
47.5°	1178.6	1025.8	871.8	717.0	580.7	449.3	326.2	220.0	127.1	81.1	50.1
45°	1319.2	1165.4	999.8	834.5	671.0	530.6	395.4	266.4	168.3	99.1	54.8
42.5°	1452.9	1294.4	1126.0	948.1	773.0	610.7	462.0	324.4	208.3	116.4	65.5
40°	1567.2	1415.4	1245.3	1061.0	873.9	688.0	531.4	382.2	246.6	138.6	79.9
37.5°	1675.6	1523.1	1353.5	1169.1	971.2	776.5	598.4	437.3	286.6	170.9	93.6
35°	1714.6	1619.9	1456.7	1268.0	1066.1	860.7	662.0	491.6	333.4	201.4	106.6
32.5°	1746.8	1692.7	1543.3	1358.6	1155.9	940.2	729.5	545.8	377.5	230.2	118.8
30°	1785.3	1721.0	1623.8	1443.9	1238.7	1017.3	797.4	596.6	418.8	257.2	133.1
27.5°	1823.8	1747.5	1688.6	1516.2	1311.9	1089.3	860.7	644.0	457.2	285.5	154.9
25°	1878.6	1778.5	1711.3	1580.7	1379.6	1155.9	919.1	688.0	495.0	316.8	175.0
22.5°	1975.5	1809.1	1732.3	1639.8	1441.7	1216.8	973.4	736.1	530.6	345.3	193.3
20°	2063.8	1836.9	1751.3	1686.7	1493.8	1268.0	1023.4	779.5	562.6	371.0	209.8
17.5°	2215.6	1884.7	1773.1	1702.2	1537.5	1313.6	1067.8	818.1	591.2	393.9	224.4
15°	2678.6	1948.6	1793.2	1715.8	1575.7	1353.5	1106.6	851.8	616.1	413.8	237.2
12.5°	3075.2	2003.4	1810.4	1727.5	1608.3	1387.4	1139.7	880.5	637.2	430.8	248.0
10°	3403.2	2048.6	1824.5	1737.1	1635.2	1415.4	1166.9	904.1	654.7	444.7	257.0
7.5°	3660.5	2084.1	1835.6	1744.6	1656.2	1437.3	1188.1	922.5	668.3	455.6	263.9
5°	3845.5	2109.5	1843.6	1750.0	1671.3	1452.9	1203.4	935.7	678.0	463.4	268.9
2.5°	3957.0	2124.9	1848.4	1753.2	1680.4	1462.4	1212.5	943.7	683.8	468.0	271.9
0°	3994.2	2130.0	1850.0	1754.3	1683.4	1465.5	1215.6	946.3	685.8	469.6	272.9
-2.5°	3957.0	2124.9	1848.4	1753.2	1680.4	1462.4	1212.5	943.7	683.8	468.0	271.9
-5°	3845.5	2109.5	1843.6	1750.0	1671.3	1452.9	1203.4	935.7	678.0	463.4	268.9
-7.5°	3660.5	2084.1	1835.6	1744.6	1656.2	1437.3	1188.1	922.5	668.3	455.6	263.9
-10°	3403.2	2048.6	1824.5	1737.1	1635.2	1415.4	1166.9	904.1	654.7	444.7	257.0
-12.5°	3075.2	2003.4	1810.4	1727.5	1608.3	1387.4	1139.7	880.5	637.2	430.8	248.0
-15°	2678.6	1948.6	1793.2	1715.8	1575.7	1353.5	1106.6	851.8	616.1	413.8	237.2
-17.5°	2215.6	1884.7	1773.1	1702.2	1537.5	1313.6	1067.8	818.1	591.2	393.9	224.4
-20°	2063.8	1836.9	1751.3	1686.7	1493.8	1268.0	1023.4	779.5	562.6	371.0	209.8



REPORT NUMBER: P731270 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1975.5	1809.1	1732.3	1639.8	1441.7	1216.8	973.4	736.1	530.6	345.3	193.3
-25°	1878.6	1778.5	1711.3	1580.7	1379.6	1155.9	919.1	688.0	495.0	316.8	175.0
-27.5°	1823.8	1747.5	1688.6	1516.2	1311.9	1089.3	860.7	644.0	457.2	285.5	154.9
-30°	1785.3	1721.0	1623.8	1443.9	1238.7	1017.3	797.4	596.6	418.8	257.2	133.1
-32.5°	1746.8	1692.7	1543.3	1358.6	1155.9	940.2	729.5	545.8	377.5	230.2	118.8
-35°	1714.6	1619.9	1456.7	1268.0	1066.1	860.7	662.0	491.6	333.4	201.4	106.6
-37.5°	1675.6	1523.1	1353.5	1169.1	971.2	776.5	598.4	437.3	286.6	170.9	93.6
-40°	1567.2	1415.4	1245.3	1061.0	873.9	688.0	531.4	382.2	246.6	138.6	79.9
-42.5°	1452.9	1294.4	1126.0	948.1	773.0	610.7	462.0	324.4	208.3	116.4	65.5
-45°	1319.2	1165.4	999.8	834.5	671.0	530.6	395.4	266.4	168.3	99.1	54.8
-47.5°	1178.6	1025.8	871.8	717.0	580.7	449.3	326.2	220.0	127.1	81.1	50.1
-50°	1025.8	884.2	741.6	611.0	487.3	371.0	259.3	171.9	106.0	62.4	45.2
-52.5°	871.8	741.6	621.1	507.4	398.2	290.3	204.6	125.0	84.3	52.6	40.1
-55°	717.0	611.0	507.4	407.2	308.3	224.4	148.4	100.0	61.8	46.6	35.1
-57.5°	580.7	487.3	398.2	308.3	231.0	161.5	109.6	74.4	51.3	40.4	31.9
-60°	449.3	371.0	290.3	224.4	161.5	112.8	80.8	54.1	44.2	34.6	28.7
-62.5°	326.2	259.3	204.6	148.4	109.6	80.8	55.1	46.1	36.9	30.9	25.4
-65°	220.0	171.9	125.0	100.0	74.4	54.1	46.1	37.9	32.0	27.0	22.2
-67.5°	127.1	106.0	84.3	61.8	51.3	44.2	36.9	32.0	27.6	23.1	19.2
-70°	81.1	62.4	52.6	46.6	40.4	34.6	30.9	27.0	23.1	19.7	16.2
-72.5°	50.1	45.2	40.1	35.1	31.9	28.7	25.4	22.2	19.2	16.2	13.2
-75°	36.0	33.3	30.8	28.1	25.4	22.7	20.3	17.8	15.3	12.7	11.3
-77.5°	27.5	25.5	23.4	21.4	19.5	17.5	15.5	13.5	11.9	10.8	9.7
-80°	19.8	18.4	16.9	15.4	13.9	12.4	11.5	10.7	9.9	9.0	8.1
-82.5°	12.7	12.0	11.5	10.9	10.3	9.7	9.1	8.5	7.9	7.2	6.4
-85°	9.0	8.6	8.2	7.9	7.5	7.1	6.6	6.0	5.4	4.9	4.3
-87.5°	4.8	4.6	4.3	4.1	3.8	3.5	3.3	3.0	2.7	2.4	2.1
-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°	1.8	1.5	1.2	0.9	0.6	0.3	0.0
85°	3.7	3.1	2.5	1.9	1.2	0.6	0.0
82.5°	5.5	4.6	3.7	2.8	1.9	0.9	0.0
80°	7.3	6.1	4.9	3.7	2.5	1.2	0.0
77.5°	8.6	7.5	6.1	4.6	3.1	1.5	0.0
75°	9.9	8.6	7.3	5.5	3.7	1.8	0.0
72.5°	11.3	9.7	8.1	6.4	4.3	2.1	0.0
70°	12.7	10.8	9.0	7.2	4.9	2.4	0.0
67.5°	15.3	11.9	9.9	7.9	5.4	2.7	0.0
65°	17.8	13.5	10.7	8.5	6.0	3.0	0.0
62.5°	20.3	15.5	11.5	9.1	6.6	3.3	0.0
60°	22.7	17.5	12.4	9.7	7.1	3.5	0.0
57.5°	25.4	19.5	13.9	10.3	7.5	3.8	0.0
55°	28.1	21.4	15.4	10.9	7.9	4.1	0.0
52.5°	30.8	23.4	16.9	11.5	8.2	4.3	0.0
50°	33.3	25.5	18.4	12.0	8.6	4.6	0.0
47.5°	36.0	27.5	19.8	12.7	9.0	4.8	0.0
45°	40.0	29.5	21.1	13.7	9.3	5.0	0.0
42.5°	43.9	31.3	22.4	14.6	9.6	5.2	0.0
40°	47.6	33.1	23.7	15.5	9.9	5.4	0.0
37.5°	51.2	34.8	25.1	16.4	10.2	5.6	0.0
35°	54.5	37.2	26.4	17.2	10.5	5.8	0.0
32.5°	59.8	39.8	27.6	18.0	10.7	6.0	0.0
30°	69.5	42.2	28.7	18.7	11.0	6.1	0.0
27.5°	78.6	44.5	29.7	19.4	11.2	6.3	0.0
25°	86.9	46.6	30.7	20.0	11.4	6.4	0.0
22.5°	94.5	48.5	31.6	20.6	11.6	6.6	0.0
20°	101.4	50.2	32.4	21.1	11.8	6.7	0.0
17.5°	107.5	51.7	33.1	21.5	11.9	6.8	0.0
15°	112.8	53.0	33.7	21.9	12.0	6.9	0.0
12.5°	117.3	54.1	34.2	22.2	12.1	6.9	0.0
10°	121.0	55.1	34.6	22.5	12.2	7.0	0.0
7.5°	123.9	55.8	35.0	22.7	12.3	7.0	0.0
5°	125.9	56.3	35.2	22.9	12.4	7.1	0.0
2.5°	127.2	56.6	35.4	23.0	12.4	7.1	0.0
0°	127.6	56.7	35.4	23.0	12.4	7.1	0.0
-2.5°	127.2	56.6	35.4	23.0	12.4	7.1	0.0
-5°	125.9	56.3	35.2	22.9	12.4	7.1	0.0
-7.5°	123.9	55.8	35.0	22.7	12.3	7.0	0.0
-10°	121.0	55.1	34.6	22.5	12.2	7.0	0.0
-12.5°	117.3	54.1	34.2	22.2	12.1	6.9	0.0
-15°	112.8	53.0	33.7	21.9	12.0	6.9	0.0
-17.5°	107.5	51.7	33.1	21.5	11.9	6.8	0.0
-20°	101.4	50.2	32.4	21.1	11.8	6.7	0.0



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 CATALOG NUMBER: EPH-LS-08-0680N-40-70-1S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	94.5	48.5	31.6	20.6	11.6	6.6	0.0
-25°	86.9	46.6	30.7	20.0	11.4	6.4	0.0
-27.5°	78.6	44.5	29.7	19.4	11.2	6.3	0.0
-30°	69.5	42.2	28.7	18.7	11.0	6.1	0.0
-32.5°	59.8	39.8	27.6	18.0	10.7	6.0	0.0
-35°	54.5	37.2	26.4	17.2	10.5	5.8	0.0
-37.5°	51.2	34.8	25.1	16.4	10.2	5.6	0.0
-40°	47.6	33.1	23.7	15.5	9.9	5.4	0.0
-42.5°	43.9	31.3	22.4	14.6	9.6	5.2	0.0
-45°	40.0	29.5	21.1	13.7	9.3	5.0	0.0
-47.5°	36.0	27.5	19.8	12.7	9.0	4.8	0.0
-50°	33.3	25.5	18.4	12.0	8.6	4.6	0.0
-52.5°	30.8	23.4	16.9	11.5	8.2	4.3	0.0
-55°	28.1	21.4	15.4	10.9	7.9	4.1	0.0
-57.5°	25.4	19.5	13.9	10.3	7.5	3.8	0.0
-60°	22.7	17.5	12.4	9.7	7.1	3.5	0.0
-62.5°	20.3	15.5	11.5	9.1	6.6	3.3	0.0
-65°	17.8	13.5	10.7	8.5	6.0	3.0	0.0
-67.5°	15.3	11.9	9.9	7.9	5.4	2.7	0.0
-70°	12.7	10.8	9.0	7.2	4.9	2.4	0.0
-72.5°	11.3	9.7	8.1	6.4	4.3	2.1	0.0
-75°	9.9	8.6	7.3	5.5	3.7	1.8	0.0
-77.5°	8.6	7.5	6.1	4.6	3.1	1.5	0.0
-80°	7.3	6.1	4.9	3.7	2.5	1.2	0.0
-82.5°	5.5	4.6	3.7	2.8	1.9	0.9	0.0
-85°	3.7	3.1	2.5	1.9	1.2	0.6	0.0
-87.5°	1.8	1.5	1.2	0.9	0.6	0.3	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

