

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: P731237 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-40-70-4S-HEG**

Issue Date: 11/16/2023

Test Information

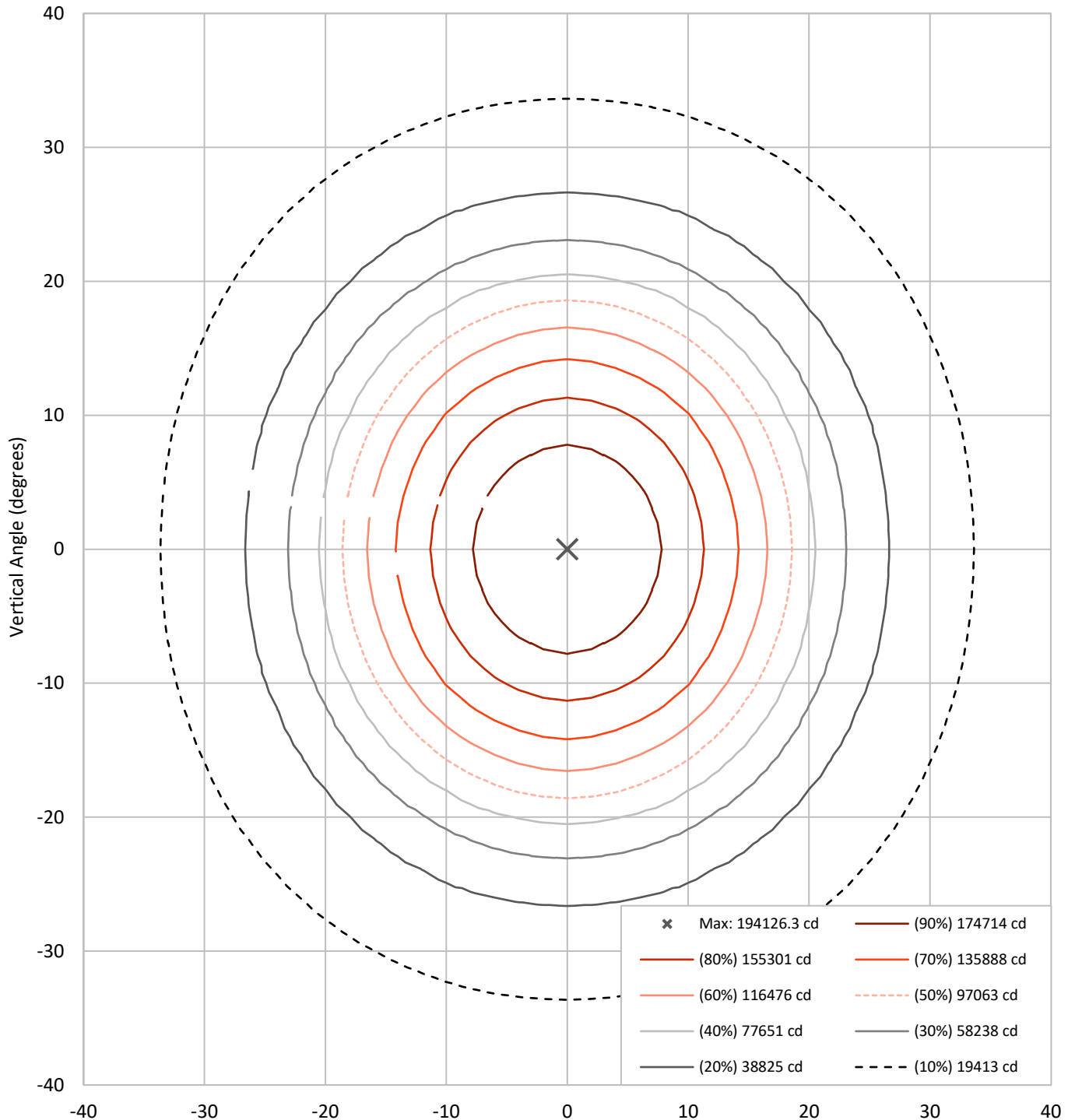
Test Method: LM-79-08
Report Number: P731237 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0530N-40-70-4S-HEG
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 70 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:	89649.4 lumens	Max Intensity:	194126.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	160.1 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:	46670.7 lumens	Field Lumens:	78398.8 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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Iso-Candela Plot





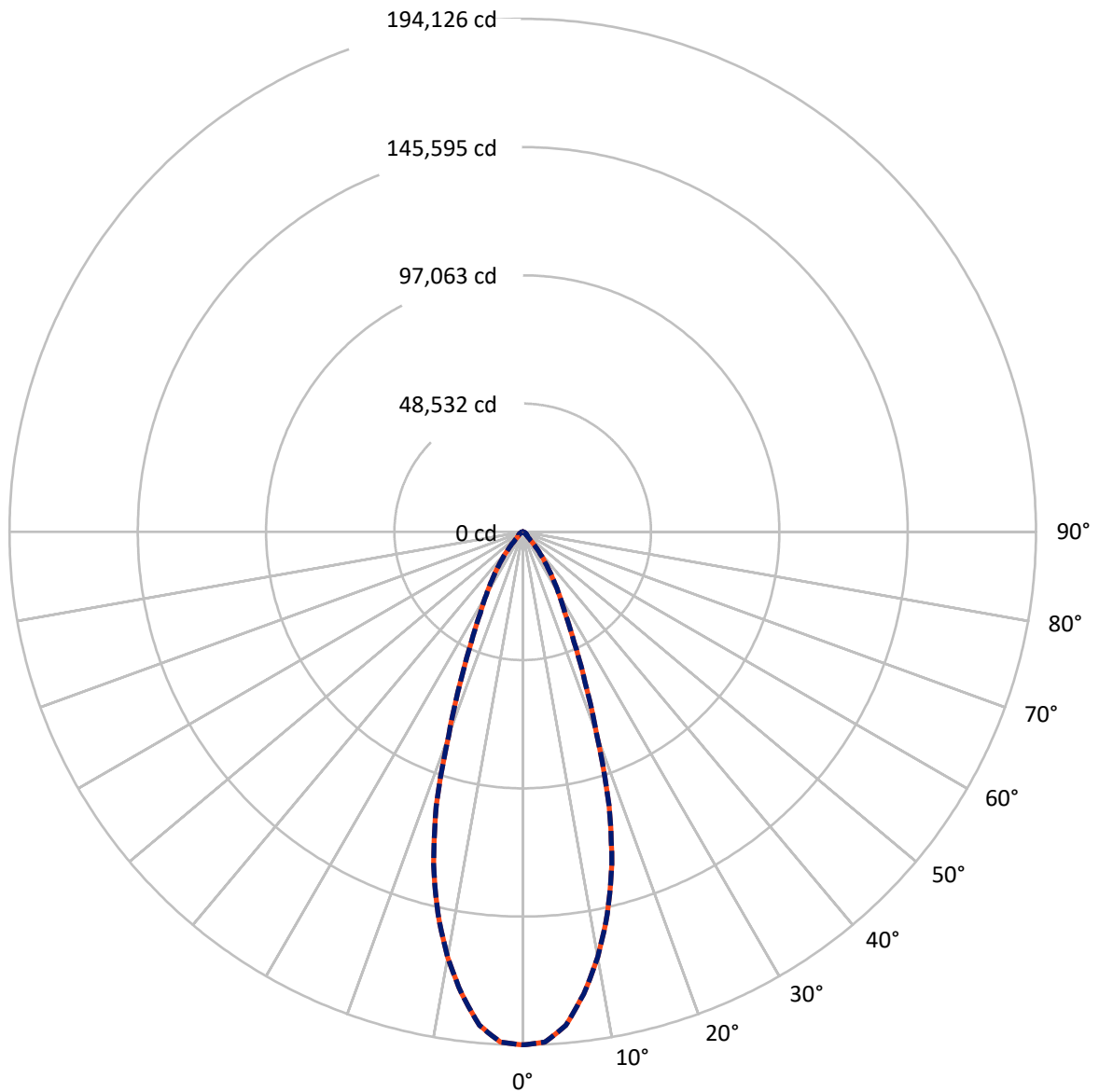
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Lumen Table

90																
80	0.1	0.7		2.7		6.4		8.3		6.4		2.7		0.7		0.1
70																
60	0.3	0.4	1.6	4.5	9.3	15.1	20.3	23.1	23.1	20.3	15.1	9.3	4.5	1.6	0.4	0.3
50		1.2	5.3	14.4	26.5	37.2	45.1	49.5	49.5	45.1	37.2	26.5	14.4	5.3	1.2	
40	0.9	2.8	11.8	26.9	41.8	58.0	83.3	109.9	109.9	83.3	58.0	41.8	26.9	11.8	2.8	0.9
30		5.0	18.7	36.1	62.7	168.6	356.8	495.0	495.0	356.8	168.6	62.7	36.1	18.7	5.0	
20	1.9	7.3	23.8	45.4	153.5	479.8	938.2	1395.1	1395.1	938.2	479.8	153.5	45.4	23.8	7.3	1.9
10		9.2	27.0	61.7	305.6	883.4	2187.8	3591.4	3591.4	2187.8	883.4	305.6	61.7	27.0	9.2	
0	2.3	10.2	28.8	79.5	411.3	1277.4	3489.9	5256.9	5256.9	3489.9	1277.4	411.3	79.5	28.8	10.2	2.3
-10		10.2	28.8	79.5	411.3	1277.4	3489.9	5256.9	5256.9	3489.9	1277.4	411.3	79.5	28.8	10.2	
-20	1.9	9.2	27.0	61.7	305.6	883.4	2187.8	3591.4	3591.4	2187.8	883.4	305.6	61.7	27.0	9.2	1.9
-30		7.3	23.8	45.4	153.5	479.8	938.2	1395.1	1395.1	938.2	479.8	153.5	45.4	23.8	7.3	
-40	0.9	5.0	18.7	36.1	62.7	168.6	356.8	495.0	495.0	356.8	168.6	62.7	36.1	18.7	5.0	0.9
-50		2.8	11.8	26.9	41.8	58.0	83.3	109.9	109.9	83.3	58.0	41.8	26.9	11.8	2.8	
-60	0.3	1.2	5.3	14.4	26.5	37.2	45.1	49.5	49.5	45.1	37.2	26.5	14.4	5.3	1.2	0.3
-70		0.4	1.6	4.5	9.3	15.1	20.3	23.1	23.1	20.3	15.1	9.3	4.5	1.6	0.4	
-80																
-90	0.1	0.7		2.7		6.4		8.3		6.4		2.7		0.7		0.1

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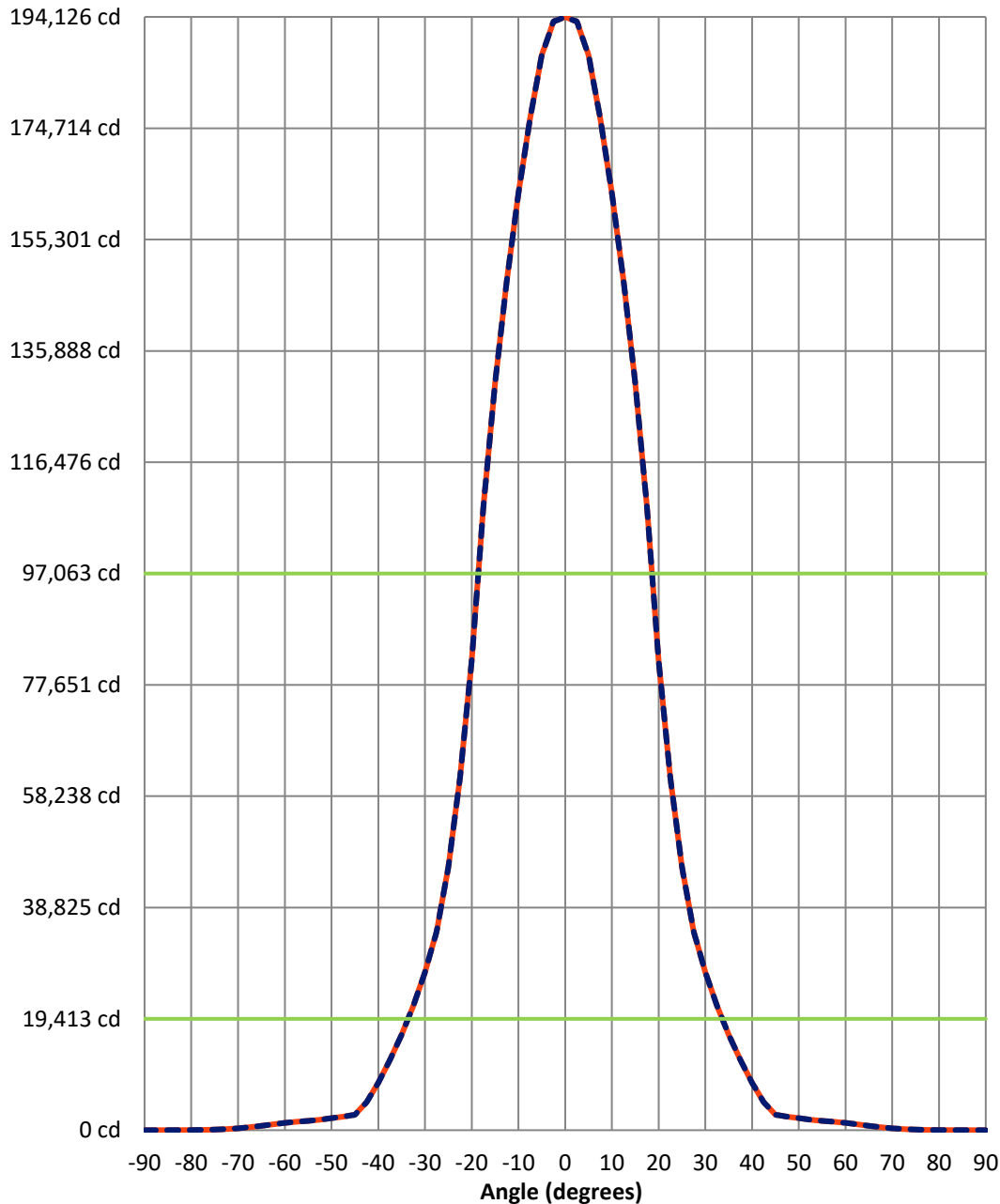
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 37.2°
 V Angle: 37.2°
 Lumens: 46670.7
 Efficiency: 52.1%

Field:
 H Angle: 67.2°
 V Angle: 67.2°
 Lumens: 78398.8
 Efficiency: 87.5%

Spill:
 Lumens: 11250.5
 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	0.6	0.8	1.0	1.2	1.4	1.5	1.7	1.9
85°	0.0	0.4	0.8	1.2	1.6	1.9	2.3	2.7	3.1	3.4	3.8
82.5°	0.0	0.6	1.2	1.8	2.3	2.9	3.5	4.0	4.6	5.2	5.7
80°	0.0	0.8	1.6	2.3	3.1	3.9	4.6	5.4	6.1	6.9	7.6
77.5°	0.0	1.0	1.9	2.9	3.9	4.8	5.8	6.7	7.6	8.6	9.7
75°	0.0	1.2	2.3	3.5	4.6	5.8	6.9	8.0	9.2	11.0	12.8
72.5°	0.0	1.4	2.7	4.0	5.4	6.7	8.0	9.6	11.7	13.8	15.8
70°	0.0	1.5	3.1	4.6	6.1	7.6	9.2	11.7	14.1	16.5	18.8
67.5°	0.0	1.7	3.4	5.2	6.9	8.6	11.0	13.8	16.5	19.2	21.8
65°	0.0	1.9	3.8	5.7	7.6	9.7	12.8	15.8	18.8	21.8	26.7
62.5°	0.0	2.1	4.2	6.2	8.3	11.2	14.5	17.8	21.2	25.6	35.9
60°	0.0	2.2	4.5	6.7	9.0	12.6	16.2	19.8	23.4	33.8	44.9
57.5°	0.0	2.4	4.8	7.2	10.0	14.0	17.9	21.8	29.5	41.7	62.3
55°	0.0	2.6	5.2	7.7	11.1	15.3	19.5	23.7	36.5	52.0	83.4
52.5°	0.0	2.7	5.5	8.2	12.2	16.6	21.1	29.1	43.2	70.4	103.9
50°	0.0	2.9	5.8	8.7	13.2	17.9	22.6	34.8	52.5	88.3	130.6
47.5°	0.0	3.0	6.1	9.2	14.1	19.1	24.6	40.4	67.8	105.6	157.2
45°	0.0	3.2	6.4	9.9	15.1	20.3	29.1	45.7	82.6	128.5	182.9
42.5°	0.0	3.3	6.6	10.5	16.0	21.4	33.5	55.0	96.8	150.7	222.5
40°	0.0	3.4	6.9	11.2	16.8	22.5	37.6	66.8	112.1	171.9	262.8
37.5°	0.0	3.6	7.1	11.8	17.7	23.6	41.6	78.1	130.0	196.1	301.3
35°	0.0	3.7	7.4	12.4	18.4	25.9	45.3	88.8	146.9	228.7	343.8
32.5°	0.0	3.8	7.6	12.9	19.2	28.9	50.3	98.8	162.9	259.5	393.2
30°	0.0	3.9	7.8	13.4	19.8	31.6	58.3	109.1	177.8	288.4	439.6
27.5°	0.0	4.0	8.0	13.9	20.5	34.1	65.8	121.1	195.3	315.2	482.7
25°	0.0	4.1	8.2	14.3	21.1	36.4	72.6	132.2	217.1	346.9	522.8
22.5°	0.0	4.2	8.3	14.7	21.6	38.6	78.9	142.4	237.0	379.3	566.6
20°	0.0	4.2	8.5	15.1	22.1	40.5	84.5	151.5	255.0	408.6	606.1
17.5°	0.0	4.3	8.6	15.4	22.5	42.2	89.5	159.6	271.0	434.6	641.3
15°	0.0	4.3	8.7	15.6	22.9	43.7	93.8	166.7	284.9	457.3	672.0
12.5°	0.0	4.4	8.8	15.9	23.2	44.9	97.5	172.7	296.7	476.6	698.1
10°	0.0	4.4	8.9	16.1	23.4	46.0	100.6	177.7	306.4	492.4	719.6
7.5°	0.0	4.5	8.9	16.2	23.6	46.8	102.9	181.5	314.0	504.8	736.4
5°	0.0	4.5	9.0	16.3	23.8	47.3	104.6	184.3	319.4	513.7	748.5
2.5°	0.0	4.5	9.0	16.4	23.9	47.7	105.7	185.9	322.7	519.0	755.7
0°	0.0	4.5	9.0	16.4	23.9	47.7	105.7	185.9	322.7	519.0	755.7
-2.5°	0.0	4.5	9.0	16.4	23.9	47.7	105.7	185.9	322.7	519.0	755.7
-5°	0.0	4.5	9.0	16.3	23.8	47.3	104.6	184.3	319.4	513.7	748.5
-7.5°	0.0	4.5	8.9	16.2	23.6	46.8	102.9	181.5	314.0	504.8	736.4
-10°	0.0	4.4	8.9	16.1	23.4	46.0	100.6	177.7	306.4	492.4	719.6
-12.5°	0.0	4.4	8.8	15.9	23.2	44.9	97.5	172.7	296.7	476.6	698.1
-15°	0.0	4.3	8.7	15.6	22.9	43.7	93.8	166.7	284.9	457.3	672.0
-17.5°	0.0	4.3	8.6	15.4	22.5	42.2	89.5	159.6	271.0	434.6	641.3
-20°	0.0	4.2	8.5	15.1	22.1	40.5	84.5	151.5	255.0	408.6	606.1



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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	4.2	8.3	14.7	21.6	38.6	78.9	142.4	237.0	379.3	566.6
-25°	0.0	4.1	8.2	14.3	21.1	36.4	72.6	132.2	217.1	346.9	522.8
-27.5°	0.0	4.0	8.0	13.9	20.5	34.1	65.8	121.1	195.3	315.2	482.7
-30°	0.0	3.9	7.8	13.4	19.8	31.6	58.3	109.1	177.8	288.4	439.6
-32.5°	0.0	3.8	7.6	12.9	19.2	28.9	50.3	98.8	162.9	259.5	393.2
-35°	0.0	3.7	7.4	12.4	18.4	25.9	45.3	88.8	146.9	228.7	343.8
-37.5°	0.0	3.6	7.1	11.8	17.7	23.6	41.6	78.1	130.0	196.1	301.3
-40°	0.0	3.4	6.9	11.2	16.8	22.5	37.6	66.8	112.1	171.9	262.8
-42.5°	0.0	3.3	6.6	10.5	16.0	21.4	33.5	55.0	96.8	150.7	222.5
-45°	0.0	3.2	6.4	9.9	15.1	20.3	29.1	45.7	82.6	128.5	182.9
-47.5°	0.0	3.0	6.1	9.2	14.1	19.1	24.6	40.4	67.8	105.6	157.2
-50°	0.0	2.9	5.8	8.7	13.2	17.9	22.6	34.8	52.5	88.3	130.6
-52.5°	0.0	2.7	5.5	8.2	12.2	16.6	21.1	29.1	43.2	70.4	103.9
-55°	0.0	2.6	5.2	7.7	11.1	15.3	19.5	23.7	36.5	52.0	83.4
-57.5°	0.0	2.4	4.8	7.2	10.0	14.0	17.9	21.8	29.5	41.7	62.3
-60°	0.0	2.2	4.5	6.7	9.0	12.6	16.2	19.8	23.4	33.8	44.9
-62.5°	0.0	2.1	4.2	6.2	8.3	11.2	14.5	17.8	21.2	25.6	35.9
-65°	0.0	1.9	3.8	5.7	7.6	9.7	12.8	15.8	18.8	21.8	26.7
-67.5°	0.0	1.7	3.4	5.2	6.9	8.6	11.0	13.8	16.5	19.2	21.8
-70°	0.0	1.5	3.1	4.6	6.1	7.6	9.2	11.7	14.1	16.5	18.8
-72.5°	0.0	1.4	2.7	4.0	5.4	6.7	8.0	9.6	11.7	13.8	15.8
-75°	0.0	1.2	2.3	3.5	4.6	5.8	6.9	8.0	9.2	11.0	12.8
-77.5°	0.0	1.0	1.9	2.9	3.9	4.8	5.8	6.7	7.6	8.6	9.7
-80°	0.0	0.8	1.6	2.3	3.1	3.9	4.6	5.4	6.1	6.9	7.6
-82.5°	0.0	0.6	1.2	1.8	2.3	2.9	3.5	4.0	4.6	5.2	5.7
-85°	0.0	0.4	0.8	1.2	1.6	1.9	2.3	2.7	3.1	3.4	3.8
-87.5°	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.5	1.7	1.9
-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°	2.1	2.2	2.4	2.6	2.7	2.9	3.0	3.2	3.3	3.4	3.6
85°	4.2	4.5	4.8	5.2	5.5	5.8	6.1	6.4	6.6	6.9	7.1
82.5°	6.2	6.7	7.2	7.7	8.2	8.7	9.2	9.9	10.5	11.2	11.8
80°	8.3	9.0	10.0	11.1	12.2	13.2	14.1	15.1	16.0	16.8	17.7
77.5°	11.2	12.6	14.0	15.3	16.6	17.9	19.1	20.3	21.4	22.5	23.6
75°	14.5	16.2	17.9	19.5	21.1	22.6	24.6	29.1	33.5	37.6	41.6
72.5°	17.8	19.8	21.8	23.7	29.1	34.8	40.4	45.7	55.0	66.8	78.1
70°	21.2	23.4	29.5	36.5	43.2	52.5	67.8	82.6	96.8	112.1	130.0
67.5°	25.6	33.8	41.7	52.0	70.4	88.3	105.6	128.5	150.7	171.9	196.1
65°	35.9	44.9	62.3	83.4	103.9	130.6	157.2	182.9	222.5	262.8	301.3
62.5°	46.0	67.6	91.2	117.5	148.7	179.0	223.7	272.0	318.5	380.1	441.2
60°	67.6	93.8	124.8	159.6	198.6	255.0	309.7	379.3	452.4	522.8	603.4
57.5°	91.2	124.8	163.3	211.2	273.9	339.9	425.0	507.3	600.2	692.1	782.5
55°	117.5	159.6	211.2	280.3	358.2	452.6	549.2	656.3	759.9	870.6	976.7
52.5°	148.7	198.6	273.9	358.2	461.9	571.6	690.2	810.6	934.4	1052.4	1162.3
50°	179.0	255.0	339.9	452.6	571.6	701.6	836.1	973.1	1102.3	1225.1	1327.3
47.5°	223.7	309.7	425.0	549.2	690.2	836.1	986.0	1127.5	1263.2	1366.5	1463.1
45°	272.0	379.3	507.3	656.3	810.6	973.1	1127.5	1276.0	1386.3	1487.9	1567.9
42.5°	318.5	452.4	600.2	759.9	934.4	1102.3	1263.2	1386.3	1495.8	1583.8	1684.5
40°	380.1	522.8	692.1	870.6	1052.4	1225.1	1366.5	1487.9	1583.8	1695.3	1814.8
37.5°	441.2	603.4	782.5	976.7	1162.3	1327.3	1463.1	1567.9	1684.5	1814.8	1990.6
35°	499.1	680.1	875.6	1075.5	1267.1	1413.5	1536.4	1652.4	1792.9	1974.8	2156.4
32.5°	560.6	752.6	963.8	1167.5	1345.2	1489.8	1604.7	1749.5	1927.7	2127.6	2304.3
30°	622.5	827.7	1045.7	1254.1	1417.0	1549.9	1685.4	1850.2	2066.6	2260.1	2479.3
27.5°	680.1	898.4	1120.0	1321.2	1481.0	1606.3	1766.0	1972.4	2187.6	2397.0	2663.2
25°	733.3	963.8	1188.8	1378.5	1529.4	1671.2	1849.5	2086.4	2297.2	2558.4	3545.9
22.5°	784.7	1023.6	1251.9	1431.2	1573.9	1735.2	1947.1	2182.3	2415.0	2745.2	4553.3
20°	833.7	1075.5	1301.2	1476.9	1614.3	1793.4	2036.0	2268.3	2542.4	3604.8	5820.7
17.5°	877.3	1121.8	1340.1	1510.0	1660.0	1855.6	2114.3	2345.4	2657.0	4380.3	7127.4
15°	915.4	1162.3	1374.1	1539.0	1702.0	1920.1	2176.9	2435.2	3057.3	5176.1	8292.1
12.5°	947.8	1196.7	1403.2	1563.7	1737.9	1975.2	2230.6	2515.2	3601.6	6097.8	9472.8
10°	974.5	1225.1	1427.1	1584.1	1767.5	2020.7	2274.9	2581.5	4053.0	6863.7	10456.1
7.5°	995.4	1247.3	1445.8	1600.1	1790.7	2056.4	2309.7	2633.6	4408.0	7467.0	11232.0
5°	1010.3	1263.2	1459.2	1611.5	1807.3	2082.1	2334.8	2671.1	4663.7	7902.1	11792.5
2.5°	1019.3	1272.8	1467.3	1618.4	1817.4	2097.5	2349.9	2693.6	4818.0	8164.9	12131.4
0°	1022.3	1276.0	1470.0	1620.7	1820.7	2102.7	2354.9	2701.2	4869.6	8252.8	12244.8
-2.5°	1019.3	1272.8	1467.3	1618.4	1817.4	2097.5	2349.9	2693.6	4818.0	8164.9	12131.4
-5°	1010.3	1263.2	1459.2	1611.5	1807.3	2082.1	2334.8	2671.1	4663.7	7902.1	11792.5
-7.5°	995.4	1247.3	1445.8	1600.1	1790.7	2056.4	2309.7	2633.6	4408.0	7467.0	11232.0
-10°	974.5	1225.1	1427.1	1584.1	1767.5	2020.7	2274.9	2581.5	4053.0	6863.7	10456.1
-12.5°	947.8	1196.7	1403.2	1563.7	1737.9	1975.2	2230.6	2515.2	3601.6	6097.8	9472.8
-15°	915.4	1162.3	1374.1	1539.0	1702.0	1920.1	2176.9	2435.2	3057.3	5176.1	8292.1
-17.5°	877.3	1121.8	1340.1	1510.0	1660.0	1855.6	2114.3	2345.4	2657.0	4380.3	7127.4
-20°	833.7	1075.5	1301.2	1476.9	1614.3	1793.4	2036.0	2268.3	2542.4	3604.8	5820.7



REPORT NUMBER: P731237 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-4S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	784.7	1023.6	1251.9	1431.2	1573.9	1735.2	1947.1	2182.3	2415.0	2745.2	4553.3
-25°	733.3	963.8	1188.8	1378.5	1529.4	1671.2	1849.5	2086.4	2297.2	2558.4	3545.9
-27.5°	680.1	898.4	1120.0	1321.2	1481.0	1606.3	1766.0	1972.4	2187.6	2397.0	2663.2
-30°	622.5	827.7	1045.7	1254.1	1417.0	1549.9	1685.4	1850.2	2066.6	2260.1	2479.3
-32.5°	560.6	752.6	963.8	1167.5	1345.2	1489.8	1604.7	1749.5	1927.7	2127.6	2304.3
-35°	499.1	680.1	875.6	1075.5	1267.1	1413.5	1536.4	1652.4	1792.9	1974.8	2156.4
-37.5°	441.2	603.4	782.5	976.7	1162.3	1327.3	1463.1	1567.9	1684.5	1814.8	1990.6
-40°	380.1	522.8	692.1	870.6	1052.4	1225.1	1366.5	1487.9	1583.8	1695.3	1814.8
-42.5°	318.5	452.4	600.2	759.9	934.4	1102.3	1263.2	1386.3	1495.8	1583.8	1684.5
-45°	272.0	379.3	507.3	656.3	810.6	973.1	1127.5	1276.0	1386.3	1487.9	1567.9
-47.5°	223.7	309.7	425.0	549.2	690.2	836.1	986.0	1127.5	1263.2	1366.5	1463.1
-50°	179.0	255.0	339.9	452.6	571.6	701.6	836.1	973.1	1102.3	1225.1	1327.3
-52.5°	148.7	198.6	273.9	358.2	461.9	571.6	690.2	810.6	934.4	1052.4	1162.3
-55°	117.5	159.6	211.2	280.3	358.2	452.6	549.2	656.3	759.9	870.6	976.7
-57.5°	91.2	124.8	163.3	211.2	273.9	339.9	425.0	507.3	600.2	692.1	782.5
-60°	67.6	93.8	124.8	159.6	198.6	255.0	309.7	379.3	452.4	522.8	603.4
-62.5°	46.0	67.6	91.2	117.5	148.7	179.0	223.7	272.0	318.5	380.1	441.2
-65°	35.9	44.9	62.3	83.4	103.9	130.6	157.2	182.9	222.5	262.8	301.3
-67.5°	25.6	33.8	41.7	52.0	70.4	88.3	105.6	128.5	150.7	171.9	196.1
-70°	21.2	23.4	29.5	36.5	43.2	52.5	67.8	82.6	96.8	112.1	130.0
-72.5°	17.8	19.8	21.8	23.7	29.1	34.8	40.4	45.7	55.0	66.8	78.1
-75°	14.5	16.2	17.9	19.5	21.1	22.6	24.6	29.1	33.5	37.6	41.6
-77.5°	11.2	12.6	14.0	15.3	16.6	17.9	19.1	20.3	21.4	22.5	23.6
-80°	8.3	9.0	10.0	11.1	12.2	13.2	14.1	15.1	16.0	16.8	17.7
-82.5°	6.2	6.7	7.2	7.7	8.2	8.7	9.2	9.9	10.5	11.2	11.8
-85°	4.2	4.5	4.8	5.2	5.5	5.8	6.1	6.4	6.6	6.9	7.1
-87.5°	2.1	2.2	2.4	2.6	2.7	2.9	3.0	3.2	3.3	3.4	3.6
-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: P731237 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-4S-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°	3.7	3.8	3.9	4.0	4.1	4.2	4.2	4.3	4.3	4.4	4.4
85°	7.4	7.6	7.8	8.0	8.2	8.3	8.5	8.6	8.7	8.8	8.9
82.5°	12.4	12.9	13.4	13.9	14.3	14.7	15.1	15.4	15.6	15.9	16.1
80°	18.4	19.2	19.8	20.5	21.1	21.6	22.1	22.5	22.9	23.2	23.4
77.5°	25.9	28.9	31.6	34.1	36.4	38.6	40.5	42.2	43.7	44.9	46.0
75°	45.3	50.3	58.3	65.8	72.6	78.9	84.5	89.5	93.8	97.5	100.6
72.5°	88.8	98.8	109.1	121.1	132.2	142.4	151.5	159.6	166.7	172.7	177.7
70°	146.9	162.9	177.8	195.3	217.1	237.0	255.0	271.0	284.9	296.7	306.4
67.5°	228.7	259.5	288.4	315.2	346.9	379.3	408.6	434.6	457.3	476.6	492.4
65°	343.8	393.2	439.6	482.7	522.8	566.6	606.1	641.3	672.0	698.1	719.6
62.5°	499.1	560.6	622.5	680.1	733.3	784.7	833.7	877.3	915.4	947.8	974.5
60°	680.1	752.6	827.7	898.4	963.8	1023.6	1075.5	1121.8	1162.3	1196.7	1225.1
57.5°	875.6	963.8	1045.7	1120.0	1188.8	1251.9	1301.2	1340.1	1374.1	1403.2	1427.1
55°	1075.5	1167.5	1254.1	1321.2	1378.5	1431.2	1476.9	1510.0	1539.0	1563.7	1584.1
52.5°	1267.1	1345.2	1417.0	1481.0	1529.4	1573.9	1614.3	1660.0	1702.0	1737.9	1767.5
50°	1413.5	1489.8	1549.9	1606.3	1671.2	1735.2	1793.4	1855.6	1920.1	1975.2	2020.7
47.5°	1536.4	1604.7	1685.4	1766.0	1849.5	1947.1	2036.0	2114.3	2176.9	2230.6	2274.9
45°	1652.4	1749.5	1850.2	1972.4	2086.4	2182.3	2268.3	2345.4	2435.2	2515.2	2581.5
42.5°	1792.9	1927.7	2066.6	2187.6	2297.2	2415.0	2542.4	2657.0	3057.3	3601.6	4053.0
40°	1974.8	2127.6	2260.1	2397.0	2558.4	2745.2	3604.8	4380.3	5176.1	6097.8	6863.7
37.5°	2156.4	2304.3	2479.3	2663.2	3545.9	4553.3	5820.7	7127.4	8292.1	9472.8	10456.1
35°	2319.1	2520.9	2863.1	4090.6	5460.4	7146.8	8782.2	10447.1	11927.9	13308.4	14487.8
32.5°	2520.9	2997.4	4366.4	6122.5	8051.4	10147.7	12121.0	14088.1	15855.4	17500.5	18974.0
30°	2863.1	4366.4	6345.2	8556.5	10983.5	13370.2	15706.9	18019.4	20214.4	22204.1	24077.6
27.5°	4090.6	6122.5	8556.5	11265.0	14011.5	16709.6	19585.5	22319.8	25091.0	27521.8	30023.6
25°	5460.4	8051.4	10983.5	14011.5	17093.6	20383.7	23765.2	27087.1	30661.6	33902.1	37784.5
22.5°	7146.8	10147.7	13370.2	16709.6	20383.7	24253.9	28234.8	32610.4	37704.9	43277.8	48897.7
20°	8782.2	12121.0	15706.9	19585.5	23765.2	28234.8	33271.3	39887.0	47038.6	55558.9	63368.5
17.5°	10447.1	14088.1	18019.4	22319.8	27087.1	32610.4	39887.0	48667.2	59012.5	70546.5	81296.2
15°	11927.9	15855.4	20214.4	25091.0	30661.6	37704.9	47038.6	59012.5	73008.6	87990.0	103697.4
12.5°	13308.4	17500.5	22204.1	27521.8	33902.1	43277.8	55558.9	70546.5	87990.0	107512.4	121957.5
10°	14487.8	18974.0	24077.6	30023.6	37784.5	48897.7	63368.5	81296.2	103697.4	121957.5	136840.2
7.5°	15420.7	20142.8	25568.7	32025.0	41256.7	54268.5	71246.3	92695.3	115281.0	133577.8	148210.5
5°	16095.8	20990.4	26653.0	33485.5	43801.8	58228.1	77099.0	101400.2	123378.2	141546.7	156319.9
2.5°	16504.5	21504.3	27311.7	34374.8	45356.5	60657.2	80710.5	106815.8	128476.4	146436.5	161514.3
0°	16641.3	21676.5	27532.6	34673.5	45879.6	61476.3	81932.1	108655.8	130220.4	148057.9	163350.8
-2.5°	16504.5	21504.3	27311.7	34374.8	45356.5	60657.2	80710.5	106815.8	128476.4	146436.5	161514.3
-5°	16095.8	20990.4	26653.0	33485.5	43801.8	58228.1	77099.0	101400.2	123378.2	141546.7	156319.9
-7.5°	15420.7	20142.8	25568.7	32025.0	41256.7	54268.5	71246.3	92695.3	115281.0	133577.8	148210.5
-10°	14487.8	18974.0	24077.6	30023.6	37784.5	48897.7	63368.5	81296.2	103697.4	121957.5	136840.2
-12.5°	13308.4	17500.5	22204.1	27521.8	33902.1	43277.8	55558.9	70546.5	87990.0	107512.4	121957.5
-15°	11927.9	15855.4	20214.4	25091.0	30661.6	37704.9	47038.6	59012.5	73008.6	87990.0	103697.4
-17.5°	10447.1	14088.1	18019.4	22319.8	27087.1	32610.4	39887.0	48667.2	59012.5	70546.5	81296.2
-20°	8782.2	12121.0	15706.9	19585.5	23765.2	28234.8	33271.3	39887.0	47038.6	55558.9	63368.5



REPORT NUMBER: P731237 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-4S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	7146.8	10147.7	13370.2	16709.6	20383.7	24253.9	28234.8	32610.4	37704.9	43277.8	48897.7
-25°	5460.4	8051.4	10983.5	14011.5	17093.6	20383.7	23765.2	27087.1	30661.6	33902.1	37784.5
-27.5°	4090.6	6122.5	8556.5	11265.0	14011.5	16709.6	19585.5	22319.8	25091.0	27521.8	30023.6
-30°	2863.1	4366.4	6345.2	8556.5	10983.5	13370.2	15706.9	18019.4	20214.4	22204.1	24077.6
-32.5°	2520.9	2997.4	4366.4	6122.5	8051.4	10147.7	12121.0	14088.1	15855.4	17500.5	18974.0
-35°	2319.1	2520.9	2863.1	4090.6	5460.4	7146.8	8782.2	10447.1	11927.9	13308.4	14487.8
-37.5°	2156.4	2304.3	2479.3	2663.2	3545.9	4553.3	5820.7	7127.4	8292.1	9472.8	10456.1
-40°	1974.8	2127.6	2260.1	2397.0	2558.4	2745.2	3604.8	4380.3	5176.1	6097.8	6863.7
-42.5°	1792.9	1927.7	2066.6	2187.6	2297.2	2415.0	2542.4	2657.0	3057.3	3601.6	4053.0
-45°	1652.4	1749.5	1850.2	1972.4	2086.4	2182.3	2268.3	2345.4	2435.2	2515.2	2581.5
-47.5°	1536.4	1604.7	1685.4	1766.0	1849.5	1947.1	2036.0	2114.3	2176.9	2230.6	2274.9
-50°	1413.5	1489.8	1549.9	1606.3	1671.2	1735.2	1793.4	1855.6	1920.1	1975.2	2020.7
-52.5°	1267.1	1345.2	1417.0	1481.0	1529.4	1573.9	1614.3	1660.0	1702.0	1737.9	1767.5
-55°	1075.5	1167.5	1254.1	1321.2	1378.5	1431.2	1476.9	1510.0	1539.0	1563.7	1584.1
-57.5°	875.6	963.8	1045.7	1120.0	1188.8	1251.9	1301.2	1340.1	1374.1	1403.2	1427.1
-60°	680.1	752.6	827.7	898.4	963.8	1023.6	1075.5	1121.8	1162.3	1196.7	1225.1
-62.5°	499.1	560.6	622.5	680.1	733.3	784.7	833.7	877.3	915.4	947.8	974.5
-65°	343.8	393.2	439.6	482.7	522.8	566.6	606.1	641.3	672.0	698.1	719.6
-67.5°	228.7	259.5	288.4	315.2	346.9	379.3	408.6	434.6	457.3	476.6	492.4
-70°	146.9	162.9	177.8	195.3	217.1	237.0	255.0	271.0	284.9	296.7	306.4
-72.5°	88.8	98.8	109.1	121.1	132.2	142.4	151.5	159.6	166.7	172.7	177.7
-75°	45.3	50.3	58.3	65.8	72.6	78.9	84.5	89.5	93.8	97.5	100.6
-77.5°	25.9	28.9	31.6	34.1	36.4	38.6	40.5	42.2	43.7	44.9	46.0
-80°	18.4	19.2	19.8	20.5	21.1	21.6	22.1	22.5	22.9	23.2	23.4
-82.5°	12.4	12.9	13.4	13.9	14.3	14.7	15.1	15.4	15.6	15.9	16.1
-85°	7.4	7.6	7.8	8.0	8.2	8.3	8.5	8.6	8.7	8.8	8.9
-87.5°	3.7	3.8	3.9	4.0	4.1	4.2	4.2	4.3	4.3	4.4	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: P731237 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-4S-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°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.4	4.4	4.3	4.3
85°	8.9	9.0	9.0	9.0	9.0	9.0	8.9	8.9	8.8	8.7	8.6
82.5°	16.2	16.3	16.4	16.4	16.4	16.3	16.2	16.1	15.9	15.6	15.4
80°	23.6	23.8	23.9	23.9	23.9	23.8	23.6	23.4	23.2	22.9	22.5
77.5°	46.8	47.3	47.7	47.8	47.7	47.3	46.8	46.0	44.9	43.7	42.2
75°	102.9	104.6	105.7	106.0	105.7	104.6	102.9	100.6	97.5	93.8	89.5
72.5°	181.5	184.3	185.9	186.5	185.9	184.3	181.5	177.7	172.7	166.7	159.6
70°	314.0	319.4	322.7	323.8	322.7	319.4	314.0	306.4	296.7	284.9	271.0
67.5°	504.8	513.7	519.0	520.8	519.0	513.7	504.8	492.4	476.6	457.3	434.6
65°	736.4	748.5	755.7	758.1	755.7	748.5	736.4	719.6	698.1	672.0	641.3
62.5°	995.4	1010.3	1019.3	1022.3	1019.3	1010.3	995.4	974.5	947.8	915.4	877.3
60°	1247.3	1263.2	1272.8	1276.0	1272.8	1263.2	1247.3	1225.1	1196.7	1162.3	1121.8
57.5°	1445.8	1459.2	1467.3	1470.0	1467.3	1459.2	1445.8	1427.1	1403.2	1374.1	1340.1
55°	1600.1	1611.5	1618.4	1620.7	1618.4	1611.5	1600.1	1584.1	1563.7	1539.0	1510.0
52.5°	1790.7	1807.3	1817.4	1820.7	1817.4	1807.3	1790.7	1767.5	1737.9	1702.0	1660.0
50°	2056.4	2082.1	2097.5	2102.7	2097.5	2082.1	2056.4	2020.7	1975.2	1920.1	1855.6
47.5°	2309.7	2334.8	2349.9	2354.9	2349.9	2334.8	2309.7	2274.9	2230.6	2176.9	2114.3
45°	2633.6	2671.1	2693.6	2701.2	2693.6	2671.1	2633.6	2581.5	2515.2	2435.2	2345.4
42.5°	4408.0	4663.7	4818.0	4869.6	4818.0	4663.7	4408.0	4053.0	3601.6	3057.3	2657.0
40°	7467.0	7902.1	8164.9	8252.8	8164.9	7902.1	7467.0	6863.7	6097.8	5176.1	4380.3
37.5°	11232.0	11792.5	12131.4	12244.8	12131.4	11792.5	11232.0	10456.1	9472.8	8292.1	7127.4
35°	15420.7	16095.8	16504.5	16641.3	16504.5	16095.8	15420.7	14487.8	13308.4	11927.9	10447.1
32.5°	20142.8	20990.4	21504.3	21676.5	21504.3	20990.4	20142.8	18974.0	17500.5	15855.4	14088.1
30°	25568.7	26653.0	27311.7	27532.6	27311.7	26653.0	25568.7	24077.6	22204.1	20214.4	18019.4
27.5°	32025.0	33485.5	34374.8	34673.5	34374.8	33485.5	32025.0	30023.6	27521.8	25091.0	22319.8
25°	41256.7	43801.8	45356.5	45879.6	45356.5	43801.8	41256.7	37784.5	33902.1	30661.6	27087.1
22.5°	54268.5	58228.1	60657.2	61476.3	60657.2	58228.1	54268.5	48897.7	43277.8	37704.9	32610.4
20°	71246.3	77099.0	80710.5	81932.1	80710.5	77099.0	71246.3	63368.5	55558.9	47038.6	39887.0
17.5°	92695.3	101400.2	106815.8	108655.8	106815.8	101400.2	92695.3	81296.2	70546.5	59012.5	48667.2
15°	115281.0	123378.2	128476.4	130220.4	128476.4	123378.2	115281.0	103697.4	87990.0	73008.6	59012.5
12.5°	133577.8	141546.7	146436.5	148057.9	146436.5	141546.7	133577.8	121957.5	107512.4	87990.0	70546.5
10°	148210.5	156319.9	161514.3	163350.8	161514.3	156319.9	148210.5	136840.2	121957.5	103697.4	81296.2
7.5°	159786.0	168939.1	174483.0	176456.0	174483.0	168939.1	159786.0	148210.5	133577.8	115281.0	92695.3
5°	168939.1	178575.6	185137.4	187446.5	185137.4	178575.6	168939.1	156319.9	141546.7	123378.2	101400.2
2.5°	174483.0	185137.4	191476.2	193297.3	191476.2	185137.4	174483.0	161514.3	146436.5	128476.4	106815.8
0°	176456.0	187446.5	193297.3	194126.3	193297.3	187446.5	176456.0	163350.8	148057.9	130220.4	108655.8
-2.5°	174483.0	185137.4	191476.2	193297.3	191476.2	185137.4	174483.0	161514.3	146436.5	128476.4	106815.8
-5°	168939.1	178575.6	185137.4	187446.5	185137.4	178575.6	168939.1	156319.9	141546.7	123378.2	101400.2
-7.5°	159786.0	168939.1	174483.0	176456.0	174483.0	168939.1	159786.0	148210.5	133577.8	115281.0	92695.3
-10°	148210.5	156319.9	161514.3	163350.8	161514.3	156319.9	148210.5	136840.2	121957.5	103697.4	81296.2
-12.5°	133577.8	141546.7	146436.5	148057.9	146436.5	141546.7	133577.8	121957.5	107512.4	87990.0	70546.5
-15°	115281.0	123378.2	128476.4	130220.4	128476.4	123378.2	115281.0	103697.4	87990.0	73008.6	59012.5
-17.5°	92695.3	101400.2	106815.8	108655.8	106815.8	101400.2	92695.3	81296.2	70546.5	59012.5	48667.2
-20°	71246.3	77099.0	80710.5	81932.1	80710.5	77099.0	71246.3	63368.5	55558.9	47038.6	39887.0



REPORT NUMBER: P731237 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-4S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	54268.5	58228.1	60657.2	61476.3	60657.2	58228.1	54268.5	48897.7	43277.8	37704.9	32610.4
-25°	41256.7	43801.8	45356.5	45879.6	45356.5	43801.8	41256.7	37784.5	33902.1	30661.6	27087.1
-27.5°	32025.0	33485.5	34374.8	34673.5	34374.8	33485.5	32025.0	30023.6	27521.8	25091.0	22319.8
-30°	25568.7	26653.0	27311.7	27532.6	27311.7	26653.0	25568.7	24077.6	22204.1	20214.4	18019.4
-32.5°	20142.8	20990.4	21504.3	21676.5	21504.3	20990.4	20142.8	18974.0	17500.5	15855.4	14088.1
-35°	15420.7	16095.8	16504.5	16641.3	16504.5	16095.8	15420.7	14487.8	13308.4	11927.9	10447.1
-37.5°	11232.0	11792.5	12131.4	12244.8	12131.4	11792.5	11232.0	10456.1	9472.8	8292.1	7127.4
-40°	7467.0	7902.1	8164.9	8252.8	8164.9	7902.1	7467.0	6863.7	6097.8	5176.1	4380.3
-42.5°	4408.0	4663.7	4818.0	4869.6	4818.0	4663.7	4408.0	4053.0	3601.6	3057.3	2657.0
-45°	2633.6	2671.1	2693.6	2701.2	2693.6	2671.1	2633.6	2581.5	2515.2	2435.2	2345.4
-47.5°	2309.7	2334.8	2349.9	2354.9	2349.9	2334.8	2309.7	2274.9	2230.6	2176.9	2114.3
-50°	2056.4	2082.1	2097.5	2102.7	2097.5	2082.1	2056.4	2020.7	1975.2	1920.1	1855.6
-52.5°	1790.7	1807.3	1817.4	1820.7	1817.4	1807.3	1790.7	1767.5	1737.9	1702.0	1660.0
-55°	1600.1	1611.5	1618.4	1620.7	1618.4	1611.5	1600.1	1584.1	1563.7	1539.0	1510.0
-57.5°	1445.8	1459.2	1467.3	1470.0	1467.3	1459.2	1445.8	1427.1	1403.2	1374.1	1340.1
-60°	1247.3	1263.2	1272.8	1276.0	1272.8	1263.2	1247.3	1225.1	1196.7	1162.3	1121.8
-62.5°	995.4	1010.3	1019.3	1022.3	1019.3	1010.3	995.4	974.5	947.8	915.4	877.3
-65°	736.4	748.5	755.7	758.1	755.7	748.5	736.4	719.6	698.1	672.0	641.3
-67.5°	504.8	513.7	519.0	520.8	519.0	513.7	504.8	492.4	476.6	457.3	434.6
-70°	314.0	319.4	322.7	323.8	322.7	319.4	314.0	306.4	296.7	284.9	271.0
-72.5°	181.5	184.3	185.9	186.5	185.9	184.3	181.5	177.7	172.7	166.7	159.6
-75°	102.9	104.6	105.7	106.0	105.7	104.6	102.9	100.6	97.5	93.8	89.5
-77.5°	46.8	47.3	47.7	47.8	47.7	47.3	46.8	46.0	44.9	43.7	42.2
-80°	23.6	23.8	23.9	23.9	23.9	23.8	23.6	23.4	23.2	22.9	22.5
-82.5°	16.2	16.3	16.4	16.4	16.4	16.3	16.2	16.1	15.9	15.6	15.4
-85°	8.9	9.0	9.0	9.0	9.0	9.0	8.9	8.9	8.8	8.7	8.6
-87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.4	4.4	4.3	4.3
-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):

	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°	4.2	4.2	4.1	4.0	3.9	3.8	3.7	3.6	3.4	3.3	3.2
85°	8.5	8.3	8.2	8.0	7.8	7.6	7.4	7.1	6.9	6.6	6.4
82.5°	15.1	14.7	14.3	13.9	13.4	12.9	12.4	11.8	11.2	10.5	9.9
80°	22.1	21.6	21.1	20.5	19.8	19.2	18.4	17.7	16.8	16.0	15.1
77.5°	40.5	38.6	36.4	34.1	31.6	28.9	25.9	23.6	22.5	21.4	20.3
75°	84.5	78.9	72.6	65.8	58.3	50.3	45.3	41.6	37.6	33.5	29.1
72.5°	151.5	142.4	132.2	121.1	109.1	98.8	88.8	78.1	66.8	55.0	45.7
70°	255.0	237.0	217.1	195.3	177.8	162.9	146.9	130.0	112.1	96.8	82.6
67.5°	408.6	379.3	346.9	315.2	288.4	259.5	228.7	196.1	171.9	150.7	128.5
65°	606.1	566.6	522.8	482.7	439.6	393.2	343.8	301.3	262.8	222.5	182.9
62.5°	833.7	784.7	733.3	680.1	622.5	560.6	499.1	441.2	380.1	318.5	272.0
60°	1075.5	1023.6	963.8	898.4	827.7	752.6	680.1	603.4	522.8	452.4	379.3
57.5°	1301.2	1251.9	1188.8	1120.0	1045.7	963.8	875.6	782.5	692.1	600.2	507.3
55°	1476.9	1431.2	1378.5	1321.2	1254.1	1167.5	1075.5	976.7	870.6	759.9	656.3
52.5°	1614.3	1573.9	1529.4	1481.0	1417.0	1345.2	1267.1	1162.3	1052.4	934.4	810.6
50°	1793.4	1735.2	1671.2	1606.3	1549.9	1489.8	1413.5	1327.3	1225.1	1102.3	973.1
47.5°	2036.0	1947.1	1849.5	1766.0	1685.4	1604.7	1536.4	1463.1	1366.5	1263.2	1127.5
45°	2268.3	2182.3	2086.4	1972.4	1850.2	1749.5	1652.4	1567.9	1487.9	1386.3	1276.0
42.5°	2542.4	2415.0	2297.2	2187.6	2066.6	1927.7	1792.9	1684.5	1583.8	1495.8	1386.3
40°	3604.8	2745.2	2558.4	2397.0	2260.1	2127.6	1974.8	1814.8	1695.3	1583.8	1487.9
37.5°	5820.7	4553.3	3545.9	2663.2	2479.3	2304.3	2156.4	1990.6	1814.8	1684.5	1567.9
35°	8782.2	7146.8	5460.4	4090.6	2863.1	2520.9	2319.1	2156.4	1974.8	1792.9	1652.4
32.5°	12121.0	10147.7	8051.4	6122.5	4366.4	2997.4	2520.9	2304.3	2127.6	1927.7	1749.5
30°	15706.9	13370.2	10983.5	8556.5	6345.2	4366.4	2863.1	2479.3	2260.1	2066.6	1850.2
27.5°	19585.5	16709.6	14011.5	11265.0	8556.5	6122.5	4090.6	2663.2	2397.0	2187.6	1972.4
25°	23765.2	20383.7	17093.6	14011.5	10983.5	8051.4	5460.4	3545.9	2558.4	2297.2	2086.4
22.5°	28234.8	24253.9	20383.7	16709.6	13370.2	10147.7	7146.8	4553.3	2745.2	2415.0	2182.3
20°	33271.3	28234.8	23765.2	19585.5	15706.9	12121.0	8782.2	5820.7	3604.8	2542.4	2268.3
17.5°	39887.0	32610.4	27087.1	22319.8	18019.4	14088.1	10447.1	7127.4	4380.3	2657.0	2345.4
15°	47038.6	37704.9	30661.6	25091.0	20214.4	15855.4	11927.9	8292.1	5176.1	3057.3	2435.2
12.5°	55558.9	43277.8	33902.1	27521.8	22204.1	17500.5	13308.4	9472.8	6097.8	3601.6	2515.2
10°	63368.5	48897.7	37784.5	30023.6	24077.6	18974.0	14487.8	10456.1	6863.7	4053.0	2581.5
7.5°	71246.3	54268.5	41256.7	32025.0	25568.7	20142.8	15420.7	11232.0	7467.0	4408.0	2633.6
5°	77099.0	58228.1	43801.8	33485.5	26653.0	20990.4	16095.8	11792.5	7902.1	4663.7	2671.1
2.5°	80710.5	60657.2	45356.5	34374.8	27311.7	21504.3	16504.5	12131.4	8164.9	4818.0	2693.6
0°	81932.1	61476.3	45879.6	34673.5	27532.6	21676.5	16641.3	12244.8	8252.8	4869.6	2701.2
-2.5°	80710.5	60657.2	45356.5	34374.8	27311.7	21504.3	16504.5	12131.4	8164.9	4818.0	2693.6
-5°	77099.0	58228.1	43801.8	33485.5	26653.0	20990.4	16095.8	11792.5	7902.1	4663.7	2671.1
-7.5°	71246.3	54268.5	41256.7	32025.0	25568.7	20142.8	15420.7	11232.0	7467.0	4408.0	2633.6
-10°	63368.5	48897.7	37784.5	30023.6	24077.6	18974.0	14487.8	10456.1	6863.7	4053.0	2581.5
-12.5°	55558.9	43277.8	33902.1	27521.8	22204.1	17500.5	13308.4	9472.8	6097.8	3601.6	2515.2
-15°	47038.6	37704.9	30661.6	25091.0	20214.4	15855.4	11927.9	8292.1	5176.1	3057.3	2435.2
-17.5°	39887.0	32610.4	27087.1	22319.8	18019.4	14088.1	10447.1	7127.4	4380.3	2657.0	2345.4
-20°	33271.3	28234.8	23765.2	19585.5	15706.9	12121.0	8782.2	5820.7	3604.8	2542.4	2268.3



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 CATALOG NUMBER: EPH-LS-08-0530N-40-70-4S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	28234.8	24253.9	20383.7	16709.6	13370.2	10147.7	7146.8	4553.3	2745.2	2415.0	2182.3
-25°	23765.2	20383.7	17093.6	14011.5	10983.5	8051.4	5460.4	3545.9	2558.4	2297.2	2086.4
-27.5°	19585.5	16709.6	14011.5	11265.0	8556.5	6122.5	4090.6	2663.2	2397.0	2187.6	1972.4
-30°	15706.9	13370.2	10983.5	8556.5	6345.2	4366.4	2863.1	2479.3	2260.1	2066.6	1850.2
-32.5°	12121.0	10147.7	8051.4	6122.5	4366.4	2997.4	2520.9	2304.3	2127.6	1927.7	1749.5
-35°	8782.2	7146.8	5460.4	4090.6	2863.1	2520.9	2319.1	2156.4	1974.8	1792.9	1652.4
-37.5°	5820.7	4553.3	3545.9	2663.2	2479.3	2304.3	2156.4	1990.6	1814.8	1684.5	1567.9
-40°	3604.8	2745.2	2558.4	2397.0	2260.1	2127.6	1974.8	1814.8	1695.3	1583.8	1487.9
-42.5°	2542.4	2415.0	2297.2	2187.6	2066.6	1927.7	1792.9	1684.5	1583.8	1495.8	1386.3
-45°	2268.3	2182.3	2086.4	1972.4	1850.2	1749.5	1652.4	1567.9	1487.9	1386.3	1276.0
-47.5°	2036.0	1947.1	1849.5	1766.0	1685.4	1604.7	1536.4	1463.1	1366.5	1263.2	1127.5
-50°	1793.4	1735.2	1671.2	1606.3	1549.9	1489.8	1413.5	1327.3	1225.1	1102.3	973.1
-52.5°	1614.3	1573.9	1529.4	1481.0	1417.0	1345.2	1267.1	1162.3	1052.4	934.4	810.6
-55°	1476.9	1431.2	1378.5	1321.2	1254.1	1167.5	1075.5	976.7	870.6	759.9	656.3
-57.5°	1301.2	1251.9	1188.8	1120.0	1045.7	963.8	875.6	782.5	692.1	600.2	507.3
-60°	1075.5	1023.6	963.8	898.4	827.7	752.6	680.1	603.4	522.8	452.4	379.3
-62.5°	833.7	784.7	733.3	680.1	622.5	560.6	499.1	441.2	380.1	318.5	272.0
-65°	606.1	566.6	522.8	482.7	439.6	393.2	343.8	301.3	262.8	222.5	182.9
-67.5°	408.6	379.3	346.9	315.2	288.4	259.5	228.7	196.1	171.9	150.7	128.5
-70°	255.0	237.0	217.1	195.3	177.8	162.9	146.9	130.0	112.1	96.8	82.6
-72.5°	151.5	142.4	132.2	121.1	109.1	98.8	88.8	78.1	66.8	55.0	45.7
-75°	84.5	78.9	72.6	65.8	58.3	50.3	45.3	41.6	37.6	33.5	29.1
-77.5°	40.5	38.6	36.4	34.1	31.6	28.9	25.9	23.6	22.5	21.4	20.3
-80°	22.1	21.6	21.1	20.5	19.8	19.2	18.4	17.7	16.8	16.0	15.1
-82.5°	15.1	14.7	14.3	13.9	13.4	12.9	12.4	11.8	11.2	10.5	9.9
-85°	8.5	8.3	8.2	8.0	7.8	7.6	7.4	7.1	6.9	6.6	6.4
-87.5°	4.2	4.2	4.1	4.0	3.9	3.8	3.7	3.6	3.4	3.3	3.2
-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: P731237 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-4S-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°	3.0	2.9	2.7	2.6	2.4	2.2	2.1	1.9	1.7	1.5	1.4
85°	6.1	5.8	5.5	5.2	4.8	4.5	4.2	3.8	3.4	3.1	2.7
82.5°	9.2	8.7	8.2	7.7	7.2	6.7	6.2	5.7	5.2	4.6	4.0
80°	14.1	13.2	12.2	11.1	10.0	9.0	8.3	7.6	6.9	6.1	5.4
77.5°	19.1	17.9	16.6	15.3	14.0	12.6	11.2	9.7	8.6	7.6	6.7
75°	24.6	22.6	21.1	19.5	17.9	16.2	14.5	12.8	11.0	9.2	8.0
72.5°	40.4	34.8	29.1	23.7	21.8	19.8	17.8	15.8	13.8	11.7	9.6
70°	67.8	52.5	43.2	36.5	29.5	23.4	21.2	18.8	16.5	14.1	11.7
67.5°	105.6	88.3	70.4	52.0	41.7	33.8	25.6	21.8	19.2	16.5	13.8
65°	157.2	130.6	103.9	83.4	62.3	44.9	35.9	26.7	21.8	18.8	15.8
62.5°	223.7	179.0	148.7	117.5	91.2	67.6	46.0	35.9	25.6	21.2	17.8
60°	309.7	255.0	198.6	159.6	124.8	93.8	67.6	44.9	33.8	23.4	19.8
57.5°	425.0	339.9	273.9	211.2	163.3	124.8	91.2	62.3	41.7	29.5	21.8
55°	549.2	452.6	358.2	280.3	211.2	159.6	117.5	83.4	52.0	36.5	23.7
52.5°	690.2	571.6	461.9	358.2	273.9	198.6	148.7	103.9	70.4	43.2	29.1
50°	836.1	701.6	571.6	452.6	339.9	255.0	179.0	130.6	88.3	52.5	34.8
47.5°	986.0	836.1	690.2	549.2	425.0	309.7	223.7	157.2	105.6	67.8	40.4
45°	1127.5	973.1	810.6	656.3	507.3	379.3	272.0	182.9	128.5	82.6	45.7
42.5°	1263.2	1102.3	934.4	759.9	600.2	452.4	318.5	222.5	150.7	96.8	55.0
40°	1366.5	1225.1	1052.4	870.6	692.1	522.8	380.1	262.8	171.9	112.1	66.8
37.5°	1463.1	1327.3	1162.3	976.7	782.5	603.4	441.2	301.3	196.1	130.0	78.1
35°	1536.4	1413.5	1267.1	1075.5	875.6	680.1	499.1	343.8	228.7	146.9	88.8
32.5°	1604.7	1489.8	1345.2	1167.5	963.8	752.6	560.6	393.2	259.5	162.9	98.8
30°	1685.4	1549.9	1417.0	1254.1	1045.7	827.7	622.5	439.6	288.4	177.8	109.1
27.5°	1766.0	1606.3	1481.0	1321.2	1120.0	898.4	680.1	482.7	315.2	195.3	121.1
25°	1849.5	1671.2	1529.4	1378.5	1188.8	963.8	733.3	522.8	346.9	217.1	132.2
22.5°	1947.1	1735.2	1573.9	1431.2	1251.9	1023.6	784.7	566.6	379.3	237.0	142.4
20°	2036.0	1793.4	1614.3	1476.9	1301.2	1075.5	833.7	606.1	408.6	255.0	151.5
17.5°	2114.3	1855.6	1660.0	1510.0	1340.1	1121.8	877.3	641.3	434.6	271.0	159.6
15°	2176.9	1920.1	1702.0	1539.0	1374.1	1162.3	915.4	672.0	457.3	284.9	166.7
12.5°	2230.6	1975.2	1737.9	1563.7	1403.2	1196.7	947.8	698.1	476.6	296.7	172.7
10°	2274.9	2020.7	1767.5	1584.1	1427.1	1225.1	974.5	719.6	492.4	306.4	177.7
7.5°	2309.7	2056.4	1790.7	1600.1	1445.8	1247.3	995.4	736.4	504.8	314.0	181.5
5°	2334.8	2082.1	1807.3	1611.5	1459.2	1263.2	1010.3	748.5	513.7	319.4	184.3
2.5°	2349.9	2097.5	1817.4	1618.4	1467.3	1272.8	1019.3	755.7	519.0	322.7	185.9
0°	2354.9	2102.7	1820.7	1620.7	1470.0	1276.0	1022.3	758.1	520.8	323.8	186.5
-2.5°	2349.9	2097.5	1817.4	1618.4	1467.3	1272.8	1019.3	755.7	519.0	322.7	185.9
-5°	2334.8	2082.1	1807.3	1611.5	1459.2	1263.2	1010.3	748.5	513.7	319.4	184.3
-7.5°	2309.7	2056.4	1790.7	1600.1	1445.8	1247.3	995.4	736.4	504.8	314.0	181.5
-10°	2274.9	2020.7	1767.5	1584.1	1427.1	1225.1	974.5	719.6	492.4	306.4	177.7
-12.5°	2230.6	1975.2	1737.9	1563.7	1403.2	1196.7	947.8	698.1	476.6	296.7	172.7
-15°	2176.9	1920.1	1702.0	1539.0	1374.1	1162.3	915.4	672.0	457.3	284.9	166.7
-17.5°	2114.3	1855.6	1660.0	1510.0	1340.1	1121.8	877.3	641.3	434.6	271.0	159.6
-20°	2036.0	1793.4	1614.3	1476.9	1301.2	1075.5	833.7	606.1	408.6	255.0	151.5



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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°	1947.1	1735.2	1573.9	1431.2	1251.9	1023.6	784.7	566.6	379.3	237.0	142.4
-25°	1849.5	1671.2	1529.4	1378.5	1188.8	963.8	733.3	522.8	346.9	217.1	132.2
-27.5°	1766.0	1606.3	1481.0	1321.2	1120.0	898.4	680.1	482.7	315.2	195.3	121.1
-30°	1685.4	1549.9	1417.0	1254.1	1045.7	827.7	622.5	439.6	288.4	177.8	109.1
-32.5°	1604.7	1489.8	1345.2	1167.5	963.8	752.6	560.6	393.2	259.5	162.9	98.8
-35°	1536.4	1413.5	1267.1	1075.5	875.6	680.1	499.1	343.8	228.7	146.9	88.8
-37.5°	1463.1	1327.3	1162.3	976.7	782.5	603.4	441.2	301.3	196.1	130.0	78.1
-40°	1366.5	1225.1	1052.4	870.6	692.1	522.8	380.1	262.8	171.9	112.1	66.8
-42.5°	1263.2	1102.3	934.4	759.9	600.2	452.4	318.5	222.5	150.7	96.8	55.0
-45°	1127.5	973.1	810.6	656.3	507.3	379.3	272.0	182.9	128.5	82.6	45.7
-47.5°	986.0	836.1	690.2	549.2	425.0	309.7	223.7	157.2	105.6	67.8	40.4
-50°	836.1	701.6	571.6	452.6	339.9	255.0	179.0	130.6	88.3	52.5	34.8
-52.5°	690.2	571.6	461.9	358.2	273.9	198.6	148.7	103.9	70.4	43.2	29.1
-55°	549.2	452.6	358.2	280.3	211.2	159.6	117.5	83.4	52.0	36.5	23.7
-57.5°	425.0	339.9	273.9	211.2	163.3	124.8	91.2	62.3	41.7	29.5	21.8
-60°	309.7	255.0	198.6	159.6	124.8	93.8	67.6	44.9	33.8	23.4	19.8
-62.5°	223.7	179.0	148.7	117.5	91.2	67.6	46.0	35.9	25.6	21.2	17.8
-65°	157.2	130.6	103.9	83.4	62.3	44.9	35.9	26.7	21.8	18.8	15.8
-67.5°	105.6	88.3	70.4	52.0	41.7	33.8	25.6	21.8	19.2	16.5	13.8
-70°	67.8	52.5	43.2	36.5	29.5	23.4	21.2	18.8	16.5	14.1	11.7
-72.5°	40.4	34.8	29.1	23.7	21.8	19.8	17.8	15.8	13.8	11.7	9.6
-75°	24.6	22.6	21.1	19.5	17.9	16.2	14.5	12.8	11.0	9.2	8.0
-77.5°	19.1	17.9	16.6	15.3	14.0	12.6	11.2	9.7	8.6	7.6	6.7
-80°	14.1	13.2	12.2	11.1	10.0	9.0	8.3	7.6	6.9	6.1	5.4
-82.5°	9.2	8.7	8.2	7.7	7.2	6.7	6.2	5.7	5.2	4.6	4.0
-85°	6.1	5.8	5.5	5.2	4.8	4.5	4.2	3.8	3.4	3.1	2.7
-87.5°	3.0	2.9	2.7	2.6	2.4	2.2	2.1	1.9	1.7	1.5	1.4
-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):

	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°	1.2	1.0	0.8	0.6	0.4	0.2	0.0
85°	2.3	1.9	1.6	1.2	0.8	0.4	0.0
82.5°	3.5	2.9	2.3	1.8	1.2	0.6	0.0
80°	4.6	3.9	3.1	2.3	1.6	0.8	0.0
77.5°	5.8	4.8	3.9	2.9	1.9	1.0	0.0
75°	6.9	5.8	4.6	3.5	2.3	1.2	0.0
72.5°	8.0	6.7	5.4	4.0	2.7	1.4	0.0
70°	9.2	7.6	6.1	4.6	3.1	1.5	0.0
67.5°	11.0	8.6	6.9	5.2	3.4	1.7	0.0
65°	12.8	9.7	7.6	5.7	3.8	1.9	0.0
62.5°	14.5	11.2	8.3	6.2	4.2	2.1	0.0
60°	16.2	12.6	9.0	6.7	4.5	2.2	0.0
57.5°	17.9	14.0	10.0	7.2	4.8	2.4	0.0
55°	19.5	15.3	11.1	7.7	5.2	2.6	0.0
52.5°	21.1	16.6	12.2	8.2	5.5	2.7	0.0
50°	22.6	17.9	13.2	8.7	5.8	2.9	0.0
47.5°	24.6	19.1	14.1	9.2	6.1	3.0	0.0
45°	29.1	20.3	15.1	9.9	6.4	3.2	0.0
42.5°	33.5	21.4	16.0	10.5	6.6	3.3	0.0
40°	37.6	22.5	16.8	11.2	6.9	3.4	0.0
37.5°	41.6	23.6	17.7	11.8	7.1	3.6	0.0
35°	45.3	25.9	18.4	12.4	7.4	3.7	0.0
32.5°	50.3	28.9	19.2	12.9	7.6	3.8	0.0
30°	58.3	31.6	19.8	13.4	7.8	3.9	0.0
27.5°	65.8	34.1	20.5	13.9	8.0	4.0	0.0
25°	72.6	36.4	21.1	14.3	8.2	4.1	0.0
22.5°	78.9	38.6	21.6	14.7	8.3	4.2	0.0
20°	84.5	40.5	22.1	15.1	8.5	4.2	0.0
17.5°	89.5	42.2	22.5	15.4	8.6	4.3	0.0
15°	93.8	43.7	22.9	15.6	8.7	4.3	0.0
12.5°	97.5	44.9	23.2	15.9	8.8	4.4	0.0
10°	100.6	46.0	23.4	16.1	8.9	4.4	0.0
7.5°	102.9	46.8	23.6	16.2	8.9	4.5	0.0
5°	104.6	47.3	23.8	16.3	9.0	4.5	0.0
2.5°	105.7	47.7	23.9	16.4	9.0	4.5	0.0
0°	106.0	47.8	23.9	16.4	9.0	4.5	0.0
-2.5°	105.7	47.7	23.9	16.4	9.0	4.5	0.0
-5°	104.6	47.3	23.8	16.3	9.0	4.5	0.0
-7.5°	102.9	46.8	23.6	16.2	8.9	4.5	0.0
-10°	100.6	46.0	23.4	16.1	8.9	4.4	0.0
-12.5°	97.5	44.9	23.2	15.9	8.8	4.4	0.0
-15°	93.8	43.7	22.9	15.6	8.7	4.3	0.0
-17.5°	89.5	42.2	22.5	15.4	8.6	4.3	0.0
-20°	84.5	40.5	22.1	15.1	8.5	4.2	0.0



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 CATALOG NUMBER: EPH-LS-08-0530N-40-70-4S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	78.9	38.6	21.6	14.7	8.3	4.2	0.0
-25°	72.6	36.4	21.1	14.3	8.2	4.1	0.0
-27.5°	65.8	34.1	20.5	13.9	8.0	4.0	0.0
-30°	58.3	31.6	19.8	13.4	7.8	3.9	0.0
-32.5°	50.3	28.9	19.2	12.9	7.6	3.8	0.0
-35°	45.3	25.9	18.4	12.4	7.4	3.7	0.0
-37.5°	41.6	23.6	17.7	11.8	7.1	3.6	0.0
-40°	37.6	22.5	16.8	11.2	6.9	3.4	0.0
-42.5°	33.5	21.4	16.0	10.5	6.6	3.3	0.0
-45°	29.1	20.3	15.1	9.9	6.4	3.2	0.0
-47.5°	24.6	19.1	14.1	9.2	6.1	3.0	0.0
-50°	22.6	17.9	13.2	8.7	5.8	2.9	0.0
-52.5°	21.1	16.6	12.2	8.2	5.5	2.7	0.0
-55°	19.5	15.3	11.1	7.7	5.2	2.6	0.0
-57.5°	17.9	14.0	10.0	7.2	4.8	2.4	0.0
-60°	16.2	12.6	9.0	6.7	4.5	2.2	0.0
-62.5°	14.5	11.2	8.3	6.2	4.2	2.1	0.0
-65°	12.8	9.7	7.6	5.7	3.8	1.9	0.0
-67.5°	11.0	8.6	6.9	5.2	3.4	1.7	0.0
-70°	9.2	7.6	6.1	4.6	3.1	1.5	0.0
-72.5°	8.0	6.7	5.4	4.0	2.7	1.4	0.0
-75°	6.9	5.8	4.6	3.5	2.3	1.2	0.0
-77.5°	5.8	4.8	3.9	2.9	1.9	1.0	0.0
-80°	4.6	3.9	3.1	2.3	1.6	0.8	0.0
-82.5°	3.5	2.9	2.3	1.8	1.2	0.6	0.0
-85°	2.3	1.9	1.6	1.2	0.8	0.4	0.0
-87.5°	1.2	1.0	0.8	0.6	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

