

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: P731235 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-40-70-2S-HEG**

Issue Date: 11/16/2023

**Test Information**

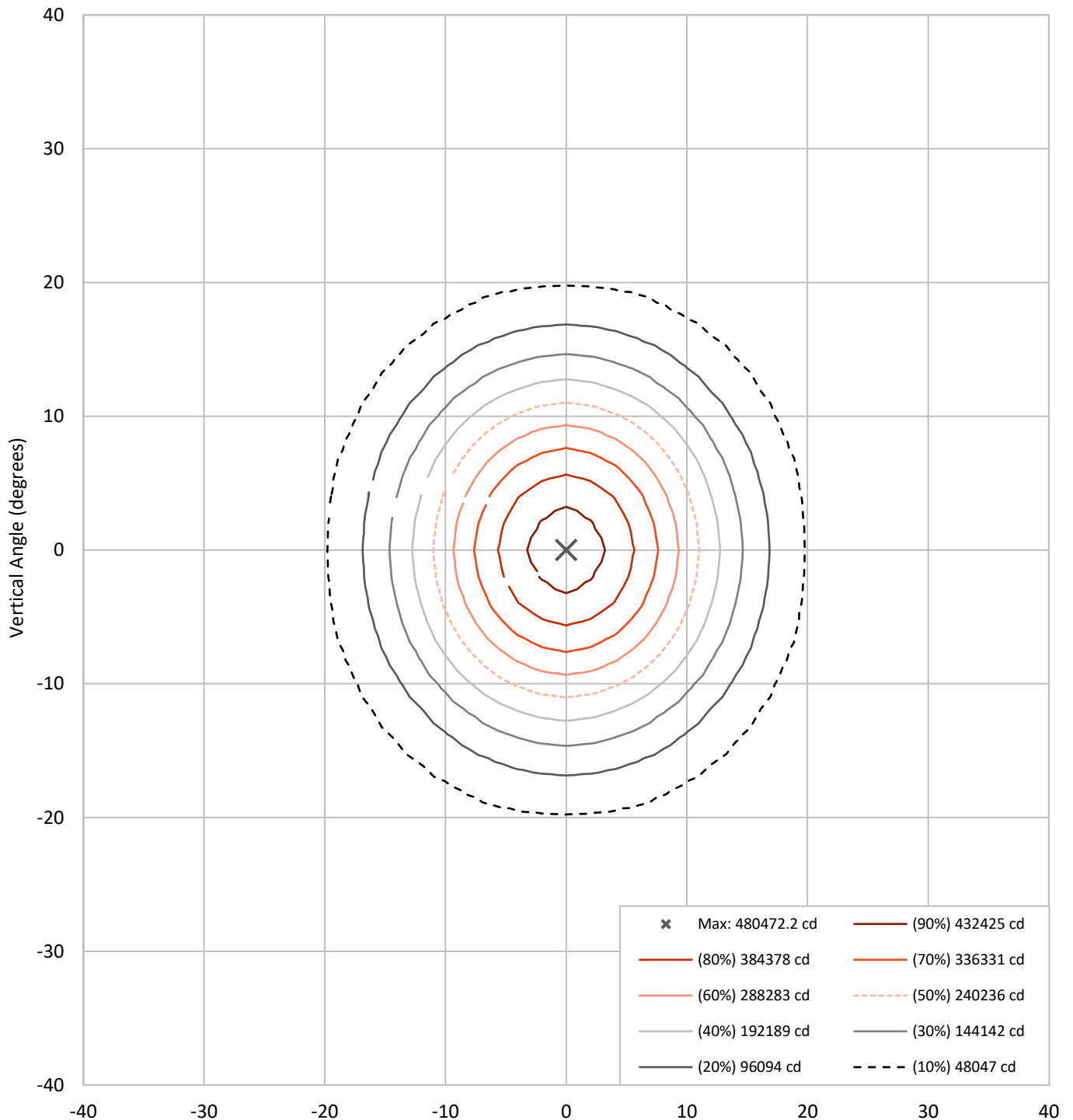
Test Method: LM-79-08  
Report Number: P731235 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-LS-08-0530N-40-70-2S-HEG  
Description: EPHEBUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 70 CRI LEDS AND 2S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	86548.2 lumens	Max Intensity:	480472.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	154.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	22°H x 22°V	Field Angle (10%):	39.6°H x 39.6°V
Beam Lumens:	38251.4 lumens	Field Lumens:	71042 lumens
Beam Efficiency:	44.2%	Field Efficiency:	82.1%
Input Watts (W):	561.4		
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





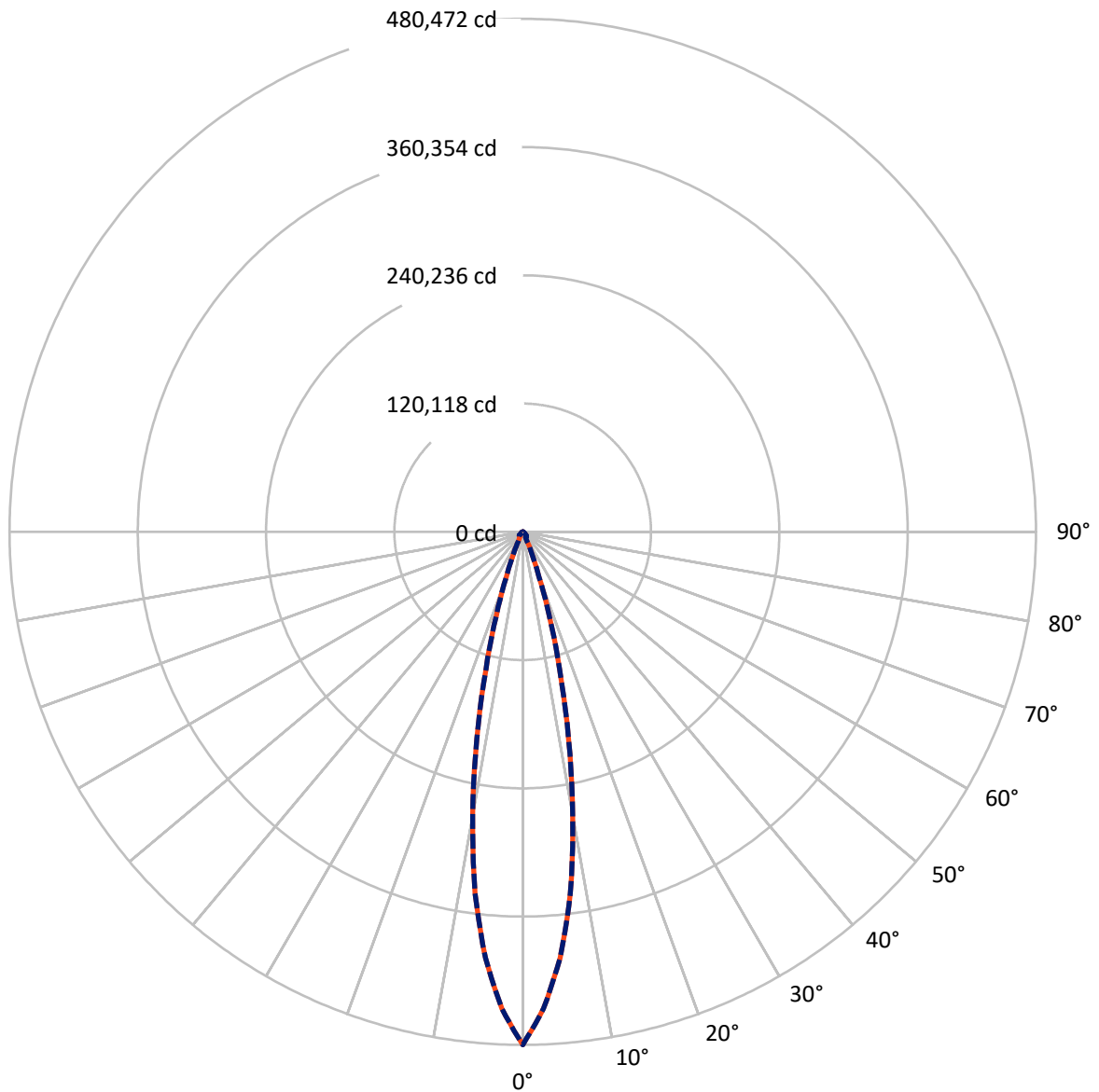
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### Lumen Table

90	0.2		0.9		3.1		7.6		10.1		7.6		3.1		0.9		0.2
80	0.2		0.9		3.1		7.6		10.1		7.6		3.1		0.9		0.2
70	0.4	0.5	1.8	5.4	10.8	16.7	21.5	24.1	24.1	21.5	16.7	10.8	5.4	1.8	0.5	0.4	
60		1.4	6.4	15.4	26.6	37.0	44.1	47.7	47.7	44.1	37.0	26.6	15.4	6.4	1.4		
50	1.0	3.4	12.6	26.7	40.7	66.0	101.0	121.0	121.0	101.0	66.0	40.7	26.7	12.6	3.4	1.0	
40		5.8	18.8	35.2	77.8	133.5	156.4	164.5	164.5	156.4	133.5	77.8	35.2	18.8	5.8		
30	2.2	8.0	23.6	52.0	120.9	150.4	205.6	419.6	419.6	205.6	150.4	120.9	52.0	23.6	8.0	2.2	
20		9.7	26.4	74.9	132.8	193.5	1224.1	3627.2	3627.2	1224.1	193.5	132.8	74.9	26.4	9.7		
10	2.8	10.6	27.7	86.8	135.3	386.7	3535.1	9941.7	9941.7	3535.1	386.7	135.3	86.8	27.7	10.6	2.8	
0		10.6	27.7	86.8	135.3	386.7	3535.1	9941.7	9941.7	3535.1	386.7	135.3	86.8	27.7	10.6		
-10	2.2	9.7	26.4	74.9	132.8	193.5	1224.1	3627.2	3627.2	1224.1	193.5	132.8	74.9	26.4	9.7	2.2	
-20		8.0	23.6	52.0	120.9	150.4	205.6	419.6	419.6	205.6	150.4	120.9	52.0	23.6	8.0		
-30	1.0	5.8	18.8	35.2	77.8	133.5	156.4	164.5	164.5	156.4	133.5	77.8	35.2	18.8	5.8	1.0	
-40		3.4	12.6	26.7	40.7	66.0	101.0	121.0	121.0	101.0	66.0	40.7	26.7	12.6	3.4		
-50	0.4	1.4	6.4	15.4	26.6	37.0	44.1	47.7	47.7	44.1	37.0	26.6	15.4	6.4	1.4	0.4	
-60		0.5	1.8	5.4	10.8	16.7	21.5	24.1	24.1	21.5	16.7	10.8	5.4	1.8	0.5		
-70	0.2		0.9		3.1		7.6		10.1		7.6		3.1		0.9		0.2
-80	0.2		0.9		3.1		7.6		10.1		7.6		3.1		0.9		0.2
-90	0.2		0.9		3.1		7.6		10.1		7.6		3.1		0.9		0.2

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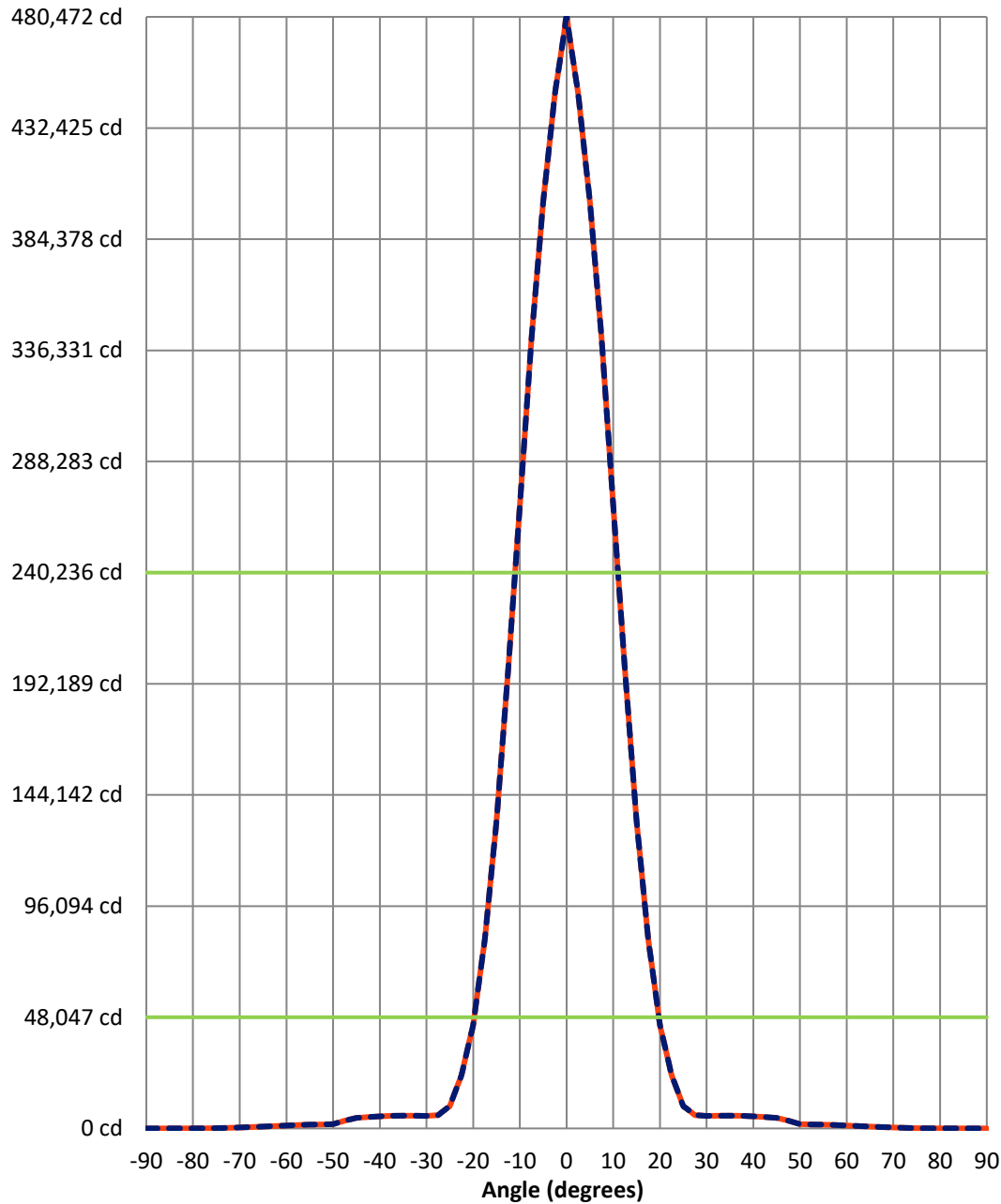
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 22°  
 V Angle: 22°  
 Lumens: 38251.4  
 Efficiency: 44.2%

**Field:**  
 H Angle: 39.6°  
 V Angle: 39.6°  
 Lumens: 71042  
 Efficiency: 82.1%

**Spill:**  
 Lumens: 15506.1  
 Efficiency: 17.9%

- 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	0.4	0.8	1.2	1.6	1.9	2.3	2.7	3.1	3.4	3.8
85°	0.0	0.8	1.6	2.3	3.1	3.9	4.7	5.4	6.1	6.9	7.6
82.5°	0.0	1.2	2.3	3.5	4.7	5.8	7.0	8.1	9.1	9.7	10.2
80°	0.0	1.6	3.1	4.7	6.2	7.8	9.1	9.9	10.6	11.4	12.1
77.5°	0.0	1.9	3.9	5.8	7.8	9.3	10.3	11.2	12.1	13.1	14.1
75°	0.0	2.3	4.7	7.0	9.1	10.3	11.4	12.5	13.7	15.1	16.5
72.5°	0.0	2.7	5.4	8.1	9.9	11.2	12.5	13.9	15.6	17.3	18.9
70°	0.0	3.1	6.1	9.1	10.6	12.1	13.7	15.6	17.6	19.5	22.8
67.5°	0.0	3.4	6.9	9.7	11.4	13.1	15.1	17.3	19.5	23.3	27.0
65°	0.0	3.8	7.6	10.2	12.1	14.1	16.5	18.9	22.8	27.0	32.0
62.5°	0.0	4.2	8.3	10.7	12.8	15.2	17.9	21.4	26.1	31.2	38.9
60°	0.0	4.5	9.0	11.2	13.5	16.4	19.2	24.2	29.3	37.3	45.6
57.5°	0.0	4.8	9.3	11.7	14.3	17.5	21.5	27.0	34.1	43.3	63.1
55°	0.0	5.2	9.7	12.2	15.2	18.5	23.8	29.6	39.3	52.2	85.3
52.5°	0.0	5.5	10.0	12.7	16.0	19.7	26.0	33.8	44.3	71.6	106.9
50°	0.0	5.8	10.3	13.2	16.8	21.5	28.1	38.1	52.7	90.5	149.7
47.5°	0.0	6.1	10.6	13.6	17.6	23.2	30.4	42.2	68.9	108.7	193.7
45°	0.0	6.4	10.9	14.2	18.3	24.9	33.8	46.2	84.5	146.3	236.1
42.5°	0.0	6.6	11.1	14.7	19.1	26.5	37.1	55.4	99.4	183.0	285.6
40°	0.0	6.9	11.4	15.2	20.0	28.0	40.2	67.9	119.2	218.0	334.3
37.5°	0.0	7.1	11.6	15.7	21.2	29.4	43.1	79.7	148.7	253.7	380.8
35°	0.0	7.4	11.9	16.2	22.2	31.4	45.9	91.0	176.7	293.1	425.8
32.5°	0.0	7.6	12.1	16.6	23.3	33.6	50.5	101.5	203.0	330.3	469.7
30°	0.0	7.8	12.3	17.0	24.2	35.7	58.9	114.1	227.7	365.2	510.8
27.5°	0.0	8.0	12.5	17.4	25.1	37.6	66.7	134.1	252.7	397.6	549.0
25°	0.0	8.2	12.7	17.7	25.9	39.3	73.9	152.5	279.1	428.5	584.7
22.5°	0.0	8.3	12.8	18.0	26.7	40.9	80.5	169.2	303.2	457.3	624.7
20°	0.0	8.5	13.0	18.3	27.3	42.3	86.4	184.3	324.9	483.3	660.8
17.5°	0.0	8.6	13.1	18.6	27.9	43.6	91.7	197.7	344.1	506.4	692.9
15°	0.0	8.7	13.2	18.8	28.5	44.7	96.3	209.4	361.0	526.5	721.0
12.5°	0.0	8.8	13.3	19.0	28.9	45.6	100.2	219.3	375.2	543.6	744.8
10°	0.0	8.9	13.4	19.1	29.3	46.4	103.4	227.5	387.0	557.7	764.5
7.5°	0.0	8.9	13.4	19.2	29.5	47.0	105.9	233.9	396.2	568.7	779.8
5°	0.0	9.0	13.5	19.3	29.7	47.5	107.7	238.4	402.7	576.6	790.8
2.5°	0.0	9.0	13.5	19.4	29.9	47.7	108.7	241.2	406.7	581.3	797.4
0°	0.0	9.0	13.5	19.4	29.9	47.7	108.7	241.2	406.7	581.3	797.4
-2.5°	0.0	9.0	13.5	19.4	29.9	47.7	108.7	241.2	406.7	581.3	797.4
-5°	0.0	9.0	13.5	19.3	29.7	47.5	107.7	238.4	402.7	576.6	790.8
-7.5°	0.0	8.9	13.4	19.2	29.5	47.0	105.9	233.9	396.2	568.7	779.8
-10°	0.0	8.9	13.4	19.1	29.3	46.4	103.4	227.5	387.0	557.7	764.5
-12.5°	0.0	8.8	13.3	19.0	28.9	45.6	100.2	219.3	375.2	543.6	744.8
-15°	0.0	8.7	13.2	18.8	28.5	44.7	96.3	209.4	361.0	526.5	721.0
-17.5°	0.0	8.6	13.1	18.6	27.9	43.6	91.7	197.7	344.1	506.4	692.9
-20°	0.0	8.5	13.0	18.3	27.3	42.3	86.4	184.3	324.9	483.3	660.8



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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	8.3	12.8	18.0	26.7	40.9	80.5	169.2	303.2	457.3	624.7
-25°	0.0	8.2	12.7	17.7	25.9	39.3	73.9	152.5	279.1	428.5	584.7
-27.5°	0.0	8.0	12.5	17.4	25.1	37.6	66.7	134.1	252.7	397.6	549.0
-30°	0.0	7.8	12.3	17.0	24.2	35.7	58.9	114.1	227.7	365.2	510.8
-32.5°	0.0	7.6	12.1	16.6	23.3	33.6	50.5	101.5	203.0	330.3	469.7
-35°	0.0	7.4	11.9	16.2	22.2	31.4	45.9	91.0	176.7	293.1	425.8
-37.5°	0.0	7.1	11.6	15.7	21.2	29.4	43.1	79.7	148.7	253.7	380.8
-40°	0.0	6.9	11.4	15.2	20.0	28.0	40.2	67.9	119.2	218.0	334.3
-42.5°	0.0	6.6	11.1	14.7	19.1	26.5	37.1	55.4	99.4	183.0	285.6
-45°	0.0	6.4	10.9	14.2	18.3	24.9	33.8	46.2	84.5	146.3	236.1
-47.5°	0.0	6.1	10.6	13.6	17.6	23.2	30.4	42.2	68.9	108.7	193.7
-50°	0.0	5.8	10.3	13.2	16.8	21.5	28.1	38.1	52.7	90.5	149.7
-52.5°	0.0	5.5	10.0	12.7	16.0	19.7	26.0	33.8	44.3	71.6	106.9
-55°	0.0	5.2	9.7	12.2	15.2	18.5	23.8	29.6	39.3	52.2	85.3
-57.5°	0.0	4.8	9.3	11.7	14.3	17.5	21.5	27.0	34.1	43.3	63.1
-60°	0.0	4.5	9.0	11.2	13.5	16.4	19.2	24.2	29.3	37.3	45.6
-62.5°	0.0	4.2	8.3	10.7	12.8	15.2	17.9	21.4	26.1	31.2	38.9
-65°	0.0	3.8	7.6	10.2	12.1	14.1	16.5	18.9	22.8	27.0	32.0
-67.5°	0.0	3.4	6.9	9.7	11.4	13.1	15.1	17.3	19.5	23.3	27.0
-70°	0.0	3.1	6.1	9.1	10.6	12.1	13.7	15.6	17.6	19.5	22.8
-72.5°	0.0	2.7	5.4	8.1	9.9	11.2	12.5	13.9	15.6	17.3	18.9
-75°	0.0	2.3	4.7	7.0	9.1	10.3	11.4	12.5	13.7	15.1	16.5
-77.5°	0.0	1.9	3.9	5.8	7.8	9.3	10.3	11.2	12.1	13.1	14.1
-80°	0.0	1.6	3.1	4.7	6.2	7.8	9.1	9.9	10.6	11.4	12.1
-82.5°	0.0	1.2	2.3	3.5	4.7	5.8	7.0	8.1	9.1	9.7	10.2
-85°	0.0	0.8	1.6	2.3	3.1	3.9	4.7	5.4	6.1	6.9	7.6
-87.5°	0.0	0.4	0.8	1.2	1.6	1.9	2.3	2.7	3.1	3.4	3.8
-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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**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°	4.2	4.5	4.8	5.2	5.5	5.8	6.1	6.4	6.6	6.9	7.1
85°	8.3	9.0	9.3	9.7	10.0	10.3	10.6	10.9	11.1	11.4	11.6
82.5°	10.7	11.2	11.7	12.2	12.7	13.2	13.6	14.2	14.7	15.2	15.7
80°	12.8	13.5	14.3	15.2	16.0	16.8	17.6	18.3	19.1	20.0	21.2
77.5°	15.2	16.4	17.5	18.5	19.7	21.5	23.2	24.9	26.5	28.0	29.4
75°	17.9	19.2	21.5	23.8	26.0	28.1	30.4	33.8	37.1	40.2	43.1
72.5°	21.4	24.2	27.0	29.6	33.8	38.1	42.2	46.2	55.4	67.9	79.7
70°	26.1	29.3	34.1	39.3	44.3	52.7	68.9	84.5	99.4	119.2	148.7
67.5°	31.2	37.3	43.3	52.2	71.6	90.5	108.7	146.3	183.0	218.0	253.7
65°	38.9	45.6	63.1	85.3	106.9	149.7	193.7	236.1	285.6	334.3	380.8
62.5°	46.4	68.6	93.5	128.1	179.6	229.6	287.0	345.4	401.6	458.0	512.2
60°	68.6	96.3	140.2	197.7	256.8	324.9	390.9	457.3	522.2	584.7	658.4
57.5°	93.5	140.2	203.8	271.9	347.8	422.3	497.8	571.0	655.5	739.4	820.5
55°	128.1	197.7	271.9	355.4	438.5	522.4	608.8	706.6	801.1	895.7	986.3
52.5°	179.6	256.8	347.8	438.5	530.6	629.3	737.6	844.4	950.2	1051.0	1144.9
50°	229.6	324.9	422.3	522.4	629.3	748.0	866.3	983.2	1093.7	1198.6	1303.7
47.5°	287.0	390.9	497.8	608.8	737.6	866.3	994.3	1115.2	1231.2	1350.9	1466.9
45°	345.4	457.3	571.0	706.6	844.4	983.2	1115.2	1242.1	1374.7	1494.6	1581.1
42.5°	401.6	522.2	655.5	801.1	950.2	1093.7	1231.2	1374.7	1503.1	1598.3	1653.4
40°	458.0	584.7	739.4	895.7	1051.0	1198.6	1350.9	1494.6	1598.3	1656.0	1684.6
37.5°	512.2	658.4	820.5	986.3	1144.9	1303.7	1466.9	1581.1	1653.4	1684.6	1793.1
35°	563.7	728.4	900.0	1070.8	1234.5	1407.3	1547.0	1645.8	1679.4	1783.2	2179.5
32.5°	619.2	794.5	975.3	1149.4	1325.3	1496.6	1620.9	1669.0	1753.5	2009.9	3049.0
30°	675.7	859.1	1045.3	1223.4	1411.5	1561.6	1653.7	1704.6	1841.1	2789.5	3779.4
27.5°	728.4	919.5	1108.8	1296.4	1487.1	1622.6	1672.9	1781.6	2363.1	3493.0	4419.1
25°	777.0	975.3	1167.6	1365.3	1539.5	1650.3	1704.2	1853.5	3007.5	4054.6	4691.0
22.5°	822.3	1026.4	1221.5	1428.6	1587.6	1665.6	1765.7	2332.1	3555.7	4558.6	4857.7
20°	864.2	1070.8	1272.4	1482.7	1631.2	1679.5	1821.7	2837.2	3998.7	4700.8	4994.4
17.5°	901.4	1110.3	1319.1	1518.5	1647.6	1708.0	1931.9	3290.8	4397.4	4829.1	5110.5
15°	934.0	1144.9	1360.0	1549.8	1657.6	1748.6	2300.1	3625.9	4610.2	4937.2	5212.8
12.5°	961.7	1174.4	1394.9	1576.5	1666.2	1783.4	2615.6	3904.4	4700.2	5019.1	5285.3
10°	984.5	1198.6	1423.7	1598.6	1673.3	1812.1	2876.5	4135.0	4774.9	5087.1	5345.7
7.5°	1002.3	1217.6	1446.1	1615.9	1678.8	1834.6	3081.1	4316.1	4833.6	5140.6	5393.3
5°	1015.1	1231.2	1462.3	1628.3	1682.8	1850.8	3228.3	4446.4	4875.9	5179.3	5427.7
2.5°	1022.7	1239.4	1472.0	1635.7	1685.2	1860.5	3317.0	4525.0	4901.5	5202.6	5448.5
0°	1025.3	1242.1	1475.2	1638.2	1686.0	1863.8	3346.6	4551.3	4910.0	5210.4	5455.5
-2.5°	1022.7	1239.4	1472.0	1635.7	1685.2	1860.5	3317.0	4525.0	4901.5	5202.6	5448.5
-5°	1015.1	1231.2	1462.3	1628.3	1682.8	1850.8	3228.3	4446.4	4875.9	5179.3	5427.7
-7.5°	1002.3	1217.6	1446.1	1615.9	1678.8	1834.6	3081.1	4316.1	4833.6	5140.6	5393.3
-10°	984.5	1198.6	1423.7	1598.6	1673.3	1812.1	2876.5	4135.0	4774.9	5087.1	5345.7
-12.5°	961.7	1174.4	1394.9	1576.5	1666.2	1783.4	2615.6	3904.4	4700.2	5019.1	5285.3
-15°	934.0	1144.9	1360.0	1549.8	1657.6	1748.6	2300.1	3625.9	4610.2	4937.2	5212.8
-17.5°	901.4	1110.3	1319.1	1518.5	1647.6	1708.0	1931.9	3290.8	4397.4	4829.1	5110.5
-20°	864.2	1070.8	1272.4	1482.7	1631.2	1679.5	1821.7	2837.2	3998.7	4700.8	4994.4



REPORT NUMBER: P731235 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	822.3	1026.4	1221.5	1428.6	1587.6	1665.6	1765.7	2332.1	3555.7	4558.6	4857.7
-25°	777.0	975.3	1167.6	1365.3	1539.5	1650.3	1704.2	1853.5	3007.5	4054.6	4691.0
-27.5°	728.4	919.5	1108.8	1296.4	1487.1	1622.6	1672.9	1781.6	2363.1	3493.0	4419.1
-30°	675.7	859.1	1045.3	1223.4	1411.5	1561.6	1653.7	1704.6	1841.1	2789.5	3779.4
-32.5°	619.2	794.5	975.3	1149.4	1325.3	1496.6	1620.9	1669.0	1753.5	2009.9	3049.0
-35°	563.7	728.4	900.0	1070.8	1234.5	1407.3	1547.0	1645.8	1679.4	1783.2	2179.5
-37.5°	512.2	658.4	820.5	986.3	1144.9	1303.7	1466.9	1581.1	1653.4	1684.6	1793.1
-40°	458.0	584.7	739.4	895.7	1051.0	1198.6	1350.9	1494.6	1598.3	1656.0	1684.6
-42.5°	401.6	522.2	655.5	801.1	950.2	1093.7	1231.2	1374.7	1503.1	1598.3	1653.4
-45°	345.4	457.3	571.0	706.6	844.4	983.2	1115.2	1242.1	1374.7	1494.6	1581.1
-47.5°	287.0	390.9	497.8	608.8	737.6	866.3	994.3	1115.2	1231.2	1350.9	1466.9
-50°	229.6	324.9	422.3	522.4	629.3	748.0	866.3	983.2	1093.7	1198.6	1303.7
-52.5°	179.6	256.8	347.8	438.5	530.6	629.3	737.6	844.4	950.2	1051.0	1144.9
-55°	128.1	197.7	271.9	355.4	438.5	522.4	608.8	706.6	801.1	895.7	986.3
-57.5°	93.5	140.2	203.8	271.9	347.8	422.3	497.8	571.0	655.5	739.4	820.5
-60°	68.6	96.3	140.2	197.7	256.8	324.9	390.9	457.3	522.2	584.7	658.4
-62.5°	46.4	68.6	93.5	128.1	179.6	229.6	287.0	345.4	401.6	458.0	512.2
-65°	38.9	45.6	63.1	85.3	106.9	149.7	193.7	236.1	285.6	334.3	380.8
-67.5°	31.2	37.3	43.3	52.2	71.6	90.5	108.7	146.3	183.0	218.0	253.7
-70°	26.1	29.3	34.1	39.3	44.3	52.7	68.9	84.5	99.4	119.2	148.7
-72.5°	21.4	24.2	27.0	29.6	33.8	38.1	42.2	46.2	55.4	67.9	79.7
-75°	17.9	19.2	21.5	23.8	26.0	28.1	30.4	33.8	37.1	40.2	43.1
-77.5°	15.2	16.4	17.5	18.5	19.7	21.5	23.2	24.9	26.5	28.0	29.4
-80°	12.8	13.5	14.3	15.2	16.0	16.8	17.6	18.3	19.1	20.0	21.2
-82.5°	10.7	11.2	11.7	12.2	12.7	13.2	13.6	14.2	14.7	15.2	15.7
-85°	8.3	9.0	9.3	9.7	10.0	10.3	10.6	10.9	11.1	11.4	11.6
-87.5°	4.2	4.5	4.8	5.2	5.5	5.8	6.1	6.4	6.6	6.9	7.1
-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):**

	-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°	7.4	7.6	7.8	8.0	8.2	8.3	8.5	8.6	8.7	8.8	8.9
85°	11.9	12.1	12.3	12.5	12.7	12.8	13.0	13.1	13.2	13.3	13.4
82.5°	16.2	16.6	17.0	17.4	17.7	18.0	18.3	18.6	18.8	19.0	19.1
80°	22.2	23.3	24.2	25.1	25.9	26.7	27.3	27.9	28.5	28.9	29.3
77.5°	31.4	33.6	35.7	37.6	39.3	40.9	42.3	43.6	44.7	45.6	46.4
75°	45.9	50.5	58.9	66.7	73.9	80.5	86.4	91.7	96.3	100.2	103.4
72.5°	91.0	101.5	114.1	134.1	152.5	169.2	184.3	197.7	209.4	219.3	227.5
70°	176.7	203.0	227.7	252.7	279.1	303.2	324.9	344.1	361.0	375.2	387.0
67.5°	293.1	330.3	365.2	397.6	428.5	457.3	483.3	506.4	526.5	543.6	557.7
65°	425.8	469.7	510.8	549.0	584.7	624.7	660.8	692.9	721.0	744.8	764.5
62.5°	563.7	619.2	675.7	728.4	777.0	822.3	864.2	901.4	934.0	961.7	984.5
60°	728.4	794.5	859.1	919.5	975.3	1026.4	1070.8	1110.3	1144.9	1174.4	1198.6
57.5°	900.0	975.3	1045.3	1108.8	1167.6	1221.5	1272.4	1319.1	1360.0	1394.9	1423.7
55°	1070.8	1149.4	1223.4	1296.4	1365.3	1428.6	1482.7	1518.5	1549.8	1576.5	1598.6
52.5°	1234.5	1325.3	1411.5	1487.1	1539.5	1587.6	1631.2	1647.6	1657.6	1666.2	1673.3
50°	1407.3	1496.6	1561.6	1622.6	1650.3	1665.6	1679.5	1708.0	1748.6	1783.4	1812.1
47.5°	1547.0	1620.9	1653.7	1672.9	1704.2	1765.7	1821.7	1931.9	2300.1	2615.6	2876.5
45°	1645.8	1669.0	1704.6	1781.6	1853.5	2332.1	2837.2	3290.8	3625.9	3904.4	4135.0
42.5°	1679.4	1753.5	1841.1	2363.1	3007.5	3555.7	3998.7	4397.4	4610.2	4700.2	4774.9
40°	1783.2	2009.9	2789.5	3493.0	4054.6	4558.6	4700.8	4829.1	4937.2	5019.1	5087.1
37.5°	2179.5	3049.0	3779.4	4419.1	4691.0	4857.7	4994.4	5110.5	5212.8	5285.3	5345.7
35°	3136.1	3924.2	4578.1	4781.1	4962.5	5112.2	5242.9	5345.1	5436.0	5467.5	5480.7
32.5°	3924.2	4600.3	4826.8	5021.2	5192.5	5326.7	5447.9	5476.2	5496.1	5503.9	5502.1
30°	4578.1	4826.8	5041.0	5229.0	5378.1	5468.1	5494.4	5503.3	5500.6	5491.0	5462.7
27.5°	4781.1	5021.2	5229.0	5395.3	5475.4	5504.8	5501.4	5489.2	5447.5	5410.9	5533.2
25°	4962.5	5192.5	5378.1	5475.4	5504.4	5500.4	5467.4	5417.4	5564.6	5724.0	6854.9
22.5°	5112.2	5326.7	5468.1	5504.8	5500.4	5460.1	5445.2	5660.4	6826.9	8784.8	12284.6
20°	5242.9	5447.9	5494.4	5501.4	5467.4	5445.2	5692.9	7593.5	10691.9	17991.6	25070.8
17.5°	5345.1	5476.2	5503.3	5489.2	5417.4	5660.4	7593.5	12087.2	20950.3	32694.2	44110.9
15°	5436.0	5496.1	5500.6	5447.5	5564.6	6826.9	10691.9	20950.3	35309.0	53174.0	74922.6
12.5°	5467.5	5503.9	5491.0	5410.9	5724.0	8784.8	17991.6	32694.2	53174.0	80204.9	113305.2
10°	5480.7	5502.1	5462.7	5533.2	6854.9	12284.6	25070.8	44110.9	74922.6	113305.2	154741.6
7.5°	5491.2	5500.7	5440.3	5631.6	8074.8	16886.0	33437.4	59689.1	97485.9	143969.3	198969.9
5°	5498.8	5499.7	5423.9	5703.5	8968.9	20278.3	39653.3	71741.9	116671.3	172188.9	236330.2
2.5°	5503.4	5499.1	5414.0	5747.2	9515.1	22359.5	43488.8	79240.4	128750.9	191466.2	260690.4
0°	5504.9	5498.9	5410.7	5761.9	9698.9	23061.2	44786.2	81788.1	132883.2	198324.2	269232.6
-2.5°	5503.4	5499.1	5414.0	5747.2	9515.1	22359.5	43488.8	79240.4	128750.9	191466.2	260690.4
-5°	5498.8	5499.7	5423.9	5703.5	8968.9	20278.3	39653.3	71741.9	116671.3	172188.9	236330.2
-7.5°	5491.2	5500.7	5440.3	5631.6	8074.8	16886.0	33437.4	59689.1	97485.9	143969.3	198969.9
-10°	5480.7	5502.1	5462.7	5533.2	6854.9	12284.6	25070.8	44110.9	74922.6	113305.2	154741.6
-12.5°	5467.5	5503.9	5491.0	5410.9	5724.0	8784.8	17991.6	32694.2	53174.0	80204.9	113305.2
-15°	5436.0	5496.1	5500.6	5447.5	5564.6	6826.9	10691.9	20950.3	35309.0	53174.0	74922.6
-17.5°	5345.1	5476.2	5503.3	5489.2	5417.4	5660.4	7593.5	12087.2	20950.3	32694.2	44110.9
-20°	5242.9	5447.9	5494.4	5501.4	5467.4	5445.2	5692.9	7593.5	10691.9	17991.6	25070.8



REPORT NUMBER: P731235 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	5112.2	5326.7	5468.1	5504.8	5500.4	5460.1	5445.2	5660.4	6826.9	8784.8	12284.6
-25°	4962.5	5192.5	5378.1	5475.4	5504.4	5500.4	5467.4	5417.4	5564.6	5724.0	6854.9
-27.5°	4781.1	5021.2	5229.0	5395.3	5475.4	5504.8	5501.4	5489.2	5447.5	5410.9	5533.2
-30°	4578.1	4826.8	5041.0	5229.0	5378.1	5468.1	5494.4	5503.3	5500.6	5491.0	5462.7
-32.5°	3924.2	4600.3	4826.8	5021.2	5192.5	5326.7	5447.9	5476.2	5496.1	5503.9	5502.1
-35°	3136.1	3924.2	4578.1	4781.1	4962.5	5112.2	5242.9	5345.1	5436.0	5467.5	5480.7
-37.5°	2179.5	3049.0	3779.4	4419.1	4691.0	4857.7	4994.4	5110.5	5212.8	5285.3	5345.7
-40°	1783.2	2009.9	2789.5	3493.0	4054.6	4558.6	4700.8	4829.1	4937.2	5019.1	5087.1
-42.5°	1679.4	1753.5	1841.1	2363.1	3007.5	3555.7	3998.7	4397.4	4610.2	4700.2	4774.9
-45°	1645.8	1669.0	1704.6	1781.6	1853.5	2332.1	2837.2	3290.8	3625.9	3904.4	4135.0
-47.5°	1547.0	1620.9	1653.7	1672.9	1704.2	1765.7	1821.7	1931.9	2300.1	2615.6	2876.5
-50°	1407.3	1496.6	1561.6	1622.6	1650.3	1665.6	1679.5	1708.0	1748.6	1783.4	1812.1
-52.5°	1234.5	1325.3	1411.5	1487.1	1539.5	1587.6	1631.2	1647.6	1657.6	1666.2	1673.3
-55°	1070.8	1149.4	1223.4	1296.4	1365.3	1428.6	1482.7	1518.5	1549.8	1576.5	1598.6
-57.5°	900.0	975.3	1045.3	1108.8	1167.6	1221.5	1272.4	1319.1	1360.0	1394.9	1423.7
-60°	728.4	794.5	859.1	919.5	975.3	1026.4	1070.8	1110.3	1144.9	1174.4	1198.6
-62.5°	563.7	619.2	675.7	728.4	777.0	822.3	864.2	901.4	934.0	961.7	984.5
-65°	425.8	469.7	510.8	549.0	584.7	624.7	660.8	692.9	721.0	744.8	764.5
-67.5°	293.1	330.3	365.2	397.6	428.5	457.3	483.3	506.4	526.5	543.6	557.7
-70°	176.7	203.0	227.7	252.7	279.1	303.2	324.9	344.1	361.0	375.2	387.0
-72.5°	91.0	101.5	114.1	134.1	152.5	169.2	184.3	197.7	209.4	219.3	227.5
-75°	45.9	50.5	58.9	66.7	73.9	80.5	86.4	91.7	96.3	100.2	103.4
-77.5°	31.4	33.6	35.7	37.6	39.3	40.9	42.3	43.6	44.7	45.6	46.4
-80°	22.2	23.3	24.2	25.1	25.9	26.7	27.3	27.9	28.5	28.9	29.3
-82.5°	16.2	16.6	17.0	17.4	17.7	18.0	18.3	18.6	18.8	19.0	19.1
-85°	11.9	12.1	12.3	12.5	12.7	12.8	13.0	13.1	13.2	13.3	13.4
-87.5°	7.4	7.6	7.8	8.0	8.2	8.3	8.5	8.6	8.7	8.8	8.9
-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: P731235 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-2S-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°	8.9	9.0	9.0	9.0	9.0	9.0	8.9	8.9	8.8	8.7	8.6
85°	13.4	13.5	13.5	13.5	13.5	13.5	13.4	13.4	13.3	13.2	13.1
82.5°	19.2	19.3	19.4	19.4	19.4	19.3	19.2	19.1	19.0	18.8	18.6
80°	29.5	29.7	29.9	29.9	29.9	29.7	29.5	29.3	28.9	28.5	27.9
77.5°	47.0	47.5	47.7	47.8	47.7	47.5	47.0	46.4	45.6	44.7	43.6
75°	105.9	107.7	108.7	109.1	108.7	107.7	105.9	103.4	100.2	96.3	91.7
72.5°	233.9	238.4	241.2	242.1	241.2	238.4	233.9	227.5	219.3	209.4	197.7
70°	396.2	402.7	406.7	408.0	406.7	402.7	396.2	387.0	375.2	361.0	344.1
67.5°	568.7	576.6	581.3	582.9	581.3	576.6	568.7	557.7	543.6	526.5	506.4
65°	779.8	790.8	797.4	799.6	797.4	790.8	779.8	764.5	744.8	721.0	692.9
62.5°	1002.3	1015.1	1022.7	1025.3	1022.7	1015.1	1002.3	984.5	961.7	934.0	901.4
60°	1217.6	1231.2	1239.4	1242.1	1239.4	1231.2	1217.6	1198.6	1174.4	1144.9	1110.3
57.5°	1446.1	1462.3	1472.0	1475.2	1472.0	1462.3	1446.1	1423.7	1394.9	1360.0	1319.1
55°	1615.9	1628.3	1635.7	1638.2	1635.7	1628.3	1615.9	1598.6	1576.5	1549.8	1518.5
52.5°	1678.8	1682.8	1685.2	1686.0	1685.2	1682.8	1678.8	1673.3	1666.2	1657.6	1647.6
50°	1834.6	1850.8	1860.5	1863.8	1860.5	1850.8	1834.6	1812.1	1783.4	1748.6	1708.0
47.5°	3081.1	3228.3	3317.0	3346.6	3317.0	3228.3	3081.1	2876.5	2615.6	2300.1	1931.9
45°	4316.1	4446.4	4525.0	4551.3	4525.0	4446.4	4316.1	4135.0	3904.4	3625.9	3290.8
42.5°	4833.6	4875.9	4901.5	4910.0	4901.5	4875.9	4833.6	4774.9	4700.2	4610.2	4397.4
40°	5140.6	5179.3	5202.6	5210.4	5202.6	5179.3	5140.6	5087.1	5019.1	4937.2	4829.1
37.5°	5393.3	5427.7	5448.5	5455.5	5448.5	5427.7	5393.3	5345.7	5285.3	5212.8	5110.5
35°	5491.2	5498.8	5503.4	5504.9	5503.4	5498.8	5491.2	5480.7	5467.5	5436.0	5345.1
32.5°	5500.7	5499.7	5499.1	5498.9	5499.1	5499.7	5500.7	5502.1	5503.9	5496.1	5476.2
30°	5440.3	5423.9	5414.0	5410.7	5414.0	5423.9	5440.3	5462.7	5491.0	5500.6	5503.3
27.5°	5631.6	5703.5	5747.2	5761.9	5747.2	5703.5	5631.6	5533.2	5410.9	5447.5	5489.2
25°	8074.8	8968.9	9515.1	9698.9	9515.1	8968.9	8074.8	6854.9	5724.0	5564.6	5417.4
22.5°	16886.0	20278.3	22359.5	23061.2	22359.5	20278.3	16886.0	12284.6	8784.8	6826.9	5660.4
20°	33437.4	39653.3	43488.8	44786.2	43488.8	39653.3	33437.4	25070.8	17991.6	10691.9	7593.5
17.5°	59689.1	71741.9	79240.4	81788.1	79240.4	71741.9	59689.1	44110.9	32694.2	20950.3	12087.2
15°	97485.9	116671.3	128750.9	132883.2	128750.9	116671.3	97485.9	74922.6	53174.0	35309.0	20950.3
12.5°	143969.3	172188.9	191466.2	198324.2	191466.2	172188.9	143969.3	113305.2	80204.9	53174.0	32694.2
10°	198969.9	236330.2	260690.4	269232.6	260690.4	236330.2	198969.9	154741.6	113305.2	74922.6	44110.9
7.5°	252651.3	297006.4	329723.6	341564.7	329723.6	297006.4	252651.3	198969.9	143969.3	97485.9	59689.1
5°	297006.4	354286.1	389407.2	400509.1	389407.2	354286.1	297006.4	236330.2	172188.9	116671.3	71741.9
2.5°	329723.6	389407.2	427372.6	447058.2	427372.6	389407.2	329723.6	260690.4	191466.2	128750.9	79240.4
0°	341564.7	400509.1	447058.2	480472.2	447058.2	400509.1	341564.7	269232.6	198324.2	132883.2	81788.1
-2.5°	329723.6	389407.2	427372.6	447058.2	427372.6	389407.2	329723.6	260690.4	191466.2	128750.9	79240.4
-5°	297006.4	354286.1	389407.2	400509.1	389407.2	354286.1	297006.4	236330.2	172188.9	116671.3	71741.9
-7.5°	252651.3	297006.4	329723.6	341564.7	329723.6	297006.4	252651.3	198969.9	143969.3	97485.9	59689.1
-10°	198969.9	236330.2	260690.4	269232.6	260690.4	236330.2	198969.9	154741.6	113305.2	74922.6	44110.9
-12.5°	143969.3	172188.9	191466.2	198324.2	191466.2	172188.9	143969.3	113305.2	80204.9	53174.0	32694.2
-15°	97485.9	116671.3	128750.9	132883.2	128750.9	116671.3	97485.9	74922.6	53174.0	35309.0	20950.3
-17.5°	59689.1	71741.9	79240.4	81788.1	79240.4	71741.9	59689.1	44110.9	32694.2	20950.3	12087.2
-20°	33437.4	39653.3	43488.8	44786.2	43488.8	39653.3	33437.4	25070.8	17991.6	10691.9	7593.5



REPORT NUMBER: P731235 (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°	16886.0	20278.3	22359.5	23061.2	22359.5	20278.3	16886.0	12284.6	8784.8	6826.9	5660.4
-25°	8074.8	8968.9	9515.1	9698.9	9515.1	8968.9	8074.8	6854.9	5724.0	5564.6	5417.4
-27.5°	5631.6	5703.5	5747.2	5761.9	5747.2	5703.5	5631.6	5533.2	5410.9	5447.5	5489.2
-30°	5440.3	5423.9	5414.0	5410.7	5414.0	5423.9	5440.3	5462.7	5491.0	5500.6	5503.3
-32.5°	5500.7	5499.7	5499.1	5498.9	5499.1	5499.7	5500.7	5502.1	5503.9	5496.1	5476.2
-35°	5491.2	5498.8	5503.4	5504.9	5503.4	5498.8	5491.2	5480.7	5467.5	5436.0	5345.1
-37.5°	5393.3	5427.7	5448.5	5455.5	5448.5	5427.7	5393.3	5345.7	5285.3	5212.8	5110.5
-40°	5140.6	5179.3	5202.6	5210.4	5202.6	5179.3	5140.6	5087.1	5019.1	4937.2	4829.1
-42.5°	4833.6	4875.9	4901.5	4910.0	4901.5	4875.9	4833.6	4774.9	4700.2	4610.2	4397.4
-45°	4316.1	4446.4	4525.0	4551.3	4525.0	4446.4	4316.1	4135.0	3904.4	3625.9	3290.8
-47.5°	3081.1	3228.3	3317.0	3346.6	3317.0	3228.3	3081.1	2876.5	2615.6	2300.1	1931.9
-50°	1834.6	1850.8	1860.5	1863.8	1860.5	1850.8	1834.6	1812.1	1783.4	1748.6	1708.0
-52.5°	1678.8	1682.8	1685.2	1686.0	1685.2	1682.8	1678.8	1673.3	1666.2	1657.6	1647.6
-55°	1615.9	1628.3	1635.7	1638.2	1635.7	1628.3	1615.9	1598.6	1576.5	1549.8	1518.5
-57.5°	1446.1	1462.3	1472.0	1475.2	1472.0	1462.3	1446.1	1423.7	1394.9	1360.0	1319.1
-60°	1217.6	1231.2	1239.4	1242.1	1239.4	1231.2	1217.6	1198.6	1174.4	1144.9	1110.3
-62.5°	1002.3	1015.1	1022.7	1025.3	1022.7	1015.1	1002.3	984.5	961.7	934.0	901.4
-65°	779.8	790.8	797.4	799.6	797.4	790.8	779.8	764.5	744.8	721.0	692.9
-67.5°	568.7	576.6	581.3	582.9	581.3	576.6	568.7	557.7	543.6	526.5	506.4
-70°	396.2	402.7	406.7	408.0	406.7	402.7	396.2	387.0	375.2	361.0	344.1
-72.5°	233.9	238.4	241.2	242.1	241.2	238.4	233.9	227.5	219.3	209.4	197.7
-75°	105.9	107.7	108.7	109.1	108.7	107.7	105.9	103.4	100.2	96.3	91.7
-77.5°	47.0	47.5	47.7	47.8	47.7	47.5	47.0	46.4	45.6	44.7	43.6
-80°	29.5	29.7	29.9	29.9	29.9	29.7	29.5	29.3	28.9	28.5	27.9
-82.5°	19.2	19.3	19.4	19.4	19.4	19.3	19.2	19.1	19.0	18.8	18.6
-85°	13.4	13.5	13.5	13.5	13.5	13.5	13.4	13.4	13.3	13.2	13.1
-87.5°	8.9	9.0	9.0	9.0	9.0	9.0	8.9	8.9	8.8	8.7	8.6
-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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**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°	8.5	8.3	8.2	8.0	7.8	7.6	7.4	7.1	6.9	6.6	6.4
85°	13.0	12.8	12.7	12.5	12.3	12.1	11.9	11.6	11.4	11.1	10.9
82.5°	18.3	18.0	17.7	17.4	17.0	16.6	16.2	15.7	15.2	14.7	14.2
80°	27.3	26.7	25.9	25.1	24.2	23.3	22.2	21.2	20.0	19.1	18.3
77.5°	42.3	40.9	39.3	37.6	35.7	33.6	31.4	29.4	28.0	26.5	24.9
75°	86.4	80.5	73.9	66.7	58.9	50.5	45.9	43.1	40.2	37.1	33.8
72.5°	184.3	169.2	152.5	134.1	114.1	101.5	91.0	79.7	67.9	55.4	46.2
70°	324.9	303.2	279.1	252.7	227.7	203.0	176.7	148.7	119.2	99.4	84.5
67.5°	483.3	457.3	428.5	397.6	365.2	330.3	293.1	253.7	218.0	183.0	146.3
65°	660.8	624.7	584.7	549.0	510.8	469.7	425.8	380.8	334.3	285.6	236.1
62.5°	864.2	822.3	777.0	728.4	675.7	619.2	563.7	512.2	458.0	401.6	345.4
60°	1070.8	1026.4	975.3	919.5	859.1	794.5	728.4	658.4	584.7	522.2	457.3
57.5°	1272.4	1221.5	1167.6	1108.8	1045.3	975.3	900.0	820.5	739.4	655.5	571.0
55°	1482.7	1428.6	1365.3	1296.4	1223.4	1149.4	1070.8	986.3	895.7	801.1	706.6
52.5°	1631.2	1587.6	1539.5	1487.1	1411.5	1325.3	1234.5	1144.9	1051.0	950.2	844.4
50°	1679.5	1665.6	1650.3	1622.6	1561.6	1496.6	1407.3	1303.7	1198.6	1093.7	983.2
47.5°	1821.7	1765.7	1704.2	1672.9	1653.7	1620.9	1547.0	1466.9	1350.9	1231.2	1115.2
45°	2837.2	2332.1	1853.5	1781.6	1704.6	1669.0	1645.8	1581.1	1494.6	1374.7	1242.1
42.5°	3998.7	3555.7	3007.5	2363.1	1841.1	1753.5	1679.4	1653.4	1598.3	1503.1	1374.7
40°	4700.8	4558.6	4054.6	3493.0	2789.5	2009.9	1783.2	1684.6	1656.0	1598.3	1494.6
37.5°	4994.4	4857.7	4691.0	4419.1	3779.4	3049.0	2179.5	1793.1	1684.6	1653.4	1581.1
35°	5242.9	5112.2	4962.5	4781.1	4578.1	3924.2	3136.1	2179.5	1783.2	1679.4	1645.8
32.5°	5447.9	5326.7	5192.5	5021.2	4826.8	4600.3	3924.2	3049.0	2009.9	1753.5	1669.0
30°	5494.4	5468.1	5378.1	5229.0	5041.0	4826.8	4578.1	3779.4	2789.5	1841.1	1704.6
27.5°	5501.4	5504.8	5475.4	5395.3	5229.0	5021.2	4781.1	4419.1	3493.0	2363.1	1781.6
25°	5467.4	5500.4	5504.4	5475.4	5378.1	5192.5	4962.5	4691.0	4054.6	3007.5	1853.5
22.5°	5445.2	5460.1	5500.4	5504.8	5468.1	5326.7	5112.2	4857.7	4558.6	3555.7	2332.1
20°	5692.9	5445.2	5467.4	5501.4	5494.4	5447.9	5242.9	4994.4	4700.8	3998.7	2837.2
17.5°	7593.5	5660.4	5417.4	5489.2	5503.3	5476.2	5345.1	5110.5	4829.1	4397.4	3290.8
15°	10691.9	6826.9	5564.6	5447.5	5500.6	5496.1	5436.0	5212.8	4937.2	4610.2	3625.9
12.5°	17991.6	8784.8	5724.0	5410.9	5491.0	5503.9	5467.5	5285.3	5019.1	4700.2	3904.4
10°	25070.8	12284.6	6854.9	5533.2	5462.7	5502.1	5480.7	5345.7	5087.1	4774.9	4135.0
7.5°	33437.4	16886.0	8074.8	5631.6	5440.3	5500.7	5491.2	5393.3	5140.6	4833.6	4316.1
5°	39653.3	20278.3	8968.9	5703.5	5423.9	5499.7	5498.8	5427.7	5179.3	4875.9	4446.4
2.5°	43488.8	22359.5	9515.1	5747.2	5414.0	5499.1	5503.4	5448.5	5202.6	4901.5	4525.0
0°	44786.2	23061.2	9698.9	5761.9	5410.7	5498.9	5504.9	5455.5	5210.4	4910.0	4551.3
-2.5°	43488.8	22359.5	9515.1	5747.2	5414.0	5499.1	5503.4	5448.5	5202.6	4901.5	4525.0
-5°	39653.3	20278.3	8968.9	5703.5	5423.9	5499.7	5498.8	5427.7	5179.3	4875.9	4446.4
-7.5°	33437.4	16886.0	8074.8	5631.6	5440.3	5500.7	5491.2	5393.3	5140.6	4833.6	4316.1
-10°	25070.8	12284.6	6854.9	5533.2	5462.7	5502.1	5480.7	5345.7	5087.1	4774.9	4135.0
-12.5°	17991.6	8784.8	5724.0	5410.9	5491.0	5503.9	5467.5	5285.3	5019.1	4700.2	3904.4
-15°	10691.9	6826.9	5564.6	5447.5	5500.6	5496.1	5436.0	5212.8	4937.2	4610.2	3625.9
-17.5°	7593.5	5660.4	5417.4	5489.2	5503.3	5476.2	5345.1	5110.5	4829.1	4397.4	3290.8
-20°	5692.9	5445.2	5467.4	5501.4	5494.4	5447.9	5242.9	4994.4	4700.8	3998.7	2837.2



REPORT NUMBER: P731235 (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°	5445.2	5460.1	5500.4	5504.8	5468.1	5326.7	5112.2	4857.7	4558.6	3555.7	2332.1
-25°	5467.4	5500.4	5504.4	5475.4	5378.1	5192.5	4962.5	4691.0	4054.6	3007.5	1853.5
-27.5°	5501.4	5504.8	5475.4	5395.3	5229.0	5021.2	4781.1	4419.1	3493.0	2363.1	1781.6
-30°	5494.4	5468.1	5378.1	5229.0	5041.0	4826.8	4578.1	3779.4	2789.5	1841.1	1704.6
-32.5°	5447.9	5326.7	5192.5	5021.2	4826.8	4600.3	3924.2	3049.0	2009.9	1753.5	1669.0
-35°	5242.9	5112.2	4962.5	4781.1	4578.1	3924.2	3136.1	2179.5	1783.2	1679.4	1645.8
-37.5°	4994.4	4857.7	4691.0	4419.1	3779.4	3049.0	2179.5	1793.1	1684.6	1653.4	1581.1
-40°	4700.8	4558.6	4054.6	3493.0	2789.5	2009.9	1783.2	1684.6	1656.0	1598.3	1494.6
-42.5°	3998.7	3555.7	3007.5	2363.1	1841.1	1753.5	1679.4	1653.4	1598.3	1503.1	1374.7
-45°	2837.2	2332.1	1853.5	1781.6	1704.6	1669.0	1645.8	1581.1	1494.6	1374.7	1242.1
-47.5°	1821.7	1765.7	1704.2	1672.9	1653.7	1620.9	1547.0	1466.9	1350.9	1231.2	1115.2
-50°	1679.5	1665.6	1650.3	1622.6	1561.6	1496.6	1407.3	1303.7	1198.6	1093.7	983.2
-52.5°	1631.2	1587.6	1539.5	1487.1	1411.5	1325.3	1234.5	1144.9	1051.0	950.2	844.4
-55°	1482.7	1428.6	1365.3	1296.4	1223.4	1149.4	1070.8	986.3	895.7	801.1	706.6
-57.5°	1272.4	1221.5	1167.6	1108.8	1045.3	975.3	900.0	820.5	739.4	655.5	571.0
-60°	1070.8	1026.4	975.3	919.5	859.1	794.5	728.4	658.4	584.7	522.2	457.3
-62.5°	864.2	822.3	777.0	728.4	675.7	619.2	563.7	512.2	458.0	401.6	345.4
-65°	660.8	624.7	584.7	549.0	510.8	469.7	425.8	380.8	334.3	285.6	236.1
-67.5°	483.3	457.3	428.5	397.6	365.2	330.3	293.1	253.7	218.0	183.0	146.3
-70°	324.9	303.2	279.1	252.7	227.7	203.0	176.7	148.7	119.2	99.4	84.5
-72.5°	184.3	169.2	152.5	134.1	114.1	101.5	91.0	79.7	67.9	55.4	46.2
-75°	86.4	80.5	73.9	66.7	58.9	50.5	45.9	43.1	40.2	37.1	33.8
-77.5°	42.3	40.9	39.3	37.6	35.7	33.6	31.4	29.4	28.0	26.5	24.9
-80°	27.3	26.7	25.9	25.1	24.2	23.3	22.2	21.2	20.0	19.1	18.3
-82.5°	18.3	18.0	17.7	17.4	17.0	16.6	16.2	15.7	15.2	14.7	14.2
-85°	13.0	12.8	12.7	12.5	12.3	12.1	11.9	11.6	11.4	11.1	10.9
-87.5°	8.5	8.3	8.2	8.0	7.8	7.6	7.4	7.1	6.9	6.6	6.4
-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: P731235 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-2S-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°	6.1	5.8	5.5	5.2	4.8	4.5	4.2	3.8	3.4	3.1	2.7
85°	10.6	10.3	10.0	9.7	9.3	9.0	8.3	7.6	6.9	6.1	5.4
82.5°	13.6	13.2	12.7	12.2	11.7	11.2	10.7	10.2	9.7	9.1	8.1
80°	17.6	16.8	16.0	15.2	14.3	13.5	12.8	12.1	11.4	10.6	9.9
77.5°	23.2	21.5	19.7	18.5	17.5	16.4	15.2	14.1	13.1	12.1	11.2
75°	30.4	28.1	26.0	23.8	21.5	19.2	17.9	16.5	15.1	13.7	12.5
72.5°	42.2	38.1	33.8	29.6	27.0	24.2	21.4	18.9	17.3	15.6	13.9
70°	68.9	52.7	44.3	39.3	34.1	29.3	26.1	22.8	19.5	17.6	15.6
67.5°	108.7	90.5	71.6	52.2	43.3	37.3	31.2	27.0	23.3	19.5	17.3
65°	193.7	149.7	106.9	85.3	63.1	45.6	38.9	32.0	27.0	22.8	18.9
62.5°	287.0	229.6	179.6	128.1	93.5	68.6	46.4	38.9	31.2	26.1	21.4
60°	390.9	324.9	256.8	197.7	140.2	96.3	68.6	45.6	37.3	29.3	24.2
57.5°	497.8	422.3	347.8	271.9	203.8	140.2	93.5	63.1	43.3	34.1	27.0
55°	608.8	522.4	438.5	355.4	271.9	197.7	128.1	85.3	52.2	39.3	29.6
52.5°	737.6	629.3	530.6	438.5	347.8	256.8	179.6	106.9	71.6	44.3	33.8
50°	866.3	748.0	629.3	522.4	422.3	324.9	229.6	149.7	90.5	52.7	38.1
47.5°	994.3	866.3	737.6	608.8	497.8	390.9	287.0	193.7	108.7	68.9	42.2
45°	1115.2	983.2	844.4	706.6	571.0	457.3	345.4	236.1	146.3	84.5	46.2
42.5°	1231.2	1093.7	950.2	801.1	655.5	522.2	401.6	285.6	183.0	99.4	55.4
40°	1350.9	1198.6	1051.0	895.7	739.4	584.7	458.0	334.3	218.0	119.2	67.9
37.5°	1466.9	1303.7	1144.9	986.3	820.5	658.4	512.2	380.8	253.7	148.7	79.7
35°	1547.0	1407.3	1234.5	1070.8	900.0	728.4	563.7	425.8	293.1	176.7	91.0
32.5°	1620.9	1496.6	1325.3	1149.4	975.3	794.5	619.2	469.7	330.3	203.0	101.5
30°	1653.7	1561.6	1411.5	1223.4	1045.3	859.1	675.7	510.8	365.2	227.7	114.1
27.5°	1672.9	1622.6	1487.1	1296.4	1108.8	919.5	728.4	549.0	397.6	252.7	134.1
25°	1704.2	1650.3	1539.5	1365.3	1167.6	975.3	777.0	584.7	428.5	279.1	152.5
22.5°	1765.7	1665.6	1587.6	1428.6	1221.5	1026.4	822.3	624.7	457.3	303.2	169.2
20°	1821.7	1679.5	1631.2	1482.7	1272.4	1070.8	864.2	660.8	483.3	324.9	184.3
17.5°	1931.9	1708.0	1647.6	1518.5	1319.1	1110.3	901.4	692.9	506.4	344.1	197.7
15°	2300.1	1748.6	1657.6	1549.8	1360.0	1144.9	934.0	721.0	526.5	361.0	209.4
12.5°	2615.6	1783.4	1666.2	1576.5	1394.9	1174.4	961.7	744.8	543.6	375.2	219.3
10°	2876.5	1812.1	1673.3	1598.6	1423.7	1198.6	984.5	764.5	557.7	387.0	227.5
7.5°	3081.1	1834.6	1678.8	1615.9	1446.1	1217.6	1002.3	779.8	568.7	396.2	233.9
5°	3228.3	1850.8	1682.8	1628.3	1462.3	1231.2	1015.1	790.8	576.6	402.7	238.4
2.5°	3317.0	1860.5	1685.2	1635.7	1472.0	1239.4	1022.7	797.4	581.3	406.7	241.2
0°	3346.6	1863.8	1686.0	1638.2	1475.2	1242.1	1025.3	799.6	582.9	408.0	242.1
-2.5°	3317.0	1860.5	1685.2	1635.7	1472.0	1239.4	1022.7	797.4	581.3	406.7	241.2
-5°	3228.3	1850.8	1682.8	1628.3	1462.3	1231.2	1015.1	790.8	576.6	402.7	238.4
-7.5°	3081.1	1834.6	1678.8	1615.9	1446.1	1217.6	1002.3	779.8	568.7	396.2	233.9
-10°	2876.5	1812.1	1673.3	1598.6	1423.7	1198.6	984.5	764.5	557.7	387.0	227.5
-12.5°	2615.6	1783.4	1666.2	1576.5	1394.9	1174.4	961.7	744.8	543.6	375.2	219.3
-15°	2300.1	1748.6	1657.6	1549.8	1360.0	1144.9	934.0	721.0	526.5	361.0	209.4
-17.5°	1931.9	1708.0	1647.6	1518.5	1319.1	1110.3	901.4	692.9	506.4	344.1	197.7
-20°	1821.7	1679.5	1631.2	1482.7	1272.4	1070.8	864.2	660.8	483.3	324.9	184.3



REPORT NUMBER: P731235 (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°	1765.7	1665.6	1587.6	1428.6	1221.5	1026.4	822.3	624.7	457.3	303.2	169.2
-25°	1704.2	1650.3	1539.5	1365.3	1167.6	975.3	777.0	584.7	428.5	279.1	152.5
-27.5°	1672.9	1622.6	1487.1	1296.4	1108.8	919.5	728.4	549.0	397.6	252.7	134.1
-30°	1653.7	1561.6	1411.5	1223.4	1045.3	859.1	675.7	510.8	365.2	227.7	114.1
-32.5°	1620.9	1496.6	1325.3	1149.4	975.3	794.5	619.2	469.7	330.3	203.0	101.5
-35°	1547.0	1407.3	1234.5	1070.8	900.0	728.4	563.7	425.8	293.1	176.7	91.0
-37.5°	1466.9	1303.7	1144.9	986.3	820.5	658.4	512.2	380.8	253.7	148.7	79.7
-40°	1350.9	1198.6	1051.0	895.7	739.4	584.7	458.0	334.3	218.0	119.2	67.9
-42.5°	1231.2	1093.7	950.2	801.1	655.5	522.2	401.6	285.6	183.0	99.4	55.4
-45°	1115.2	983.2	844.4	706.6	571.0	457.3	345.4	236.1	146.3	84.5	46.2
-47.5°	994.3	866.3	737.6	608.8	497.8	390.9	287.0	193.7	108.7	68.9	42.2
-50°	866.3	748.0	629.3	522.4	422.3	324.9	229.6	149.7	90.5	52.7	38.1
-52.5°	737.6	629.3	530.6	438.5	347.8	256.8	179.6	106.9	71.6	44.3	33.8
-55°	608.8	522.4	438.5	355.4	271.9	197.7	128.1	85.3	52.2	39.3	29.6
-57.5°	497.8	422.3	347.8	271.9	203.8	140.2	93.5	63.1	43.3	34.1	27.0
-60°	390.9	324.9	256.8	197.7	140.2	96.3	68.6	45.6	37.3	29.3	24.2
-62.5°	287.0	229.6	179.6	128.1	93.5	68.6	46.4	38.9	31.2	26.1	21.4
-65°	193.7	149.7	106.9	85.3	63.1	45.6	38.9	32.0	27.0	22.8	18.9
-67.5°	108.7	90.5	71.6	52.2	43.3	37.3	31.2	27.0	23.3	19.5	17.3
-70°	68.9	52.7	44.3	39.3	34.1	29.3	26.1	22.8	19.5	17.6	15.6
-72.5°	42.2	38.1	33.8	29.6	27.0	24.2	21.4	18.9	17.3	15.6	13.9
-75°	30.4	28.1	26.0	23.8	21.5	19.2	17.9	16.5	15.1	13.7	12.5
-77.5°	23.2	21.5	19.7	18.5	17.5	16.4	15.2	14.1	13.1	12.1	11.2
-80°	17.6	16.8	16.0	15.2	14.3	13.5	12.8	12.1	11.4	10.6	9.9
-82.5°	13.6	13.2	12.7	12.2	11.7	11.2	10.7	10.2	9.7	9.1	8.1
-85°	10.6	10.3	10.0	9.7	9.3	9.0	8.3	7.6	6.9	6.1	5.4
-87.5°	6.1	5.8	5.5	5.2	4.8	4.5	4.2	3.8	3.4	3.1	2.7
-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°	2.3	1.9	1.6	1.2	0.8	0.4	0.0
85°	4.7	3.9	3.1	2.3	1.6	0.8	0.0
82.5°	7.0	5.8	4.7	3.5	2.3	1.2	0.0
80°	9.1	7.8	6.2	4.7	3.1	1.6	0.0
77.5°	10.3	9.3	7.8	5.8	3.9	1.9	0.0
75°	11.4	10.3	9.1	7.0	4.7	2.3	0.0
72.5°	12.5	11.2	9.9	8.1	5.4	2.7	0.0
70°	13.7	12.1	10.6	9.1	6.1	3.1	0.0
67.5°	15.1	13.1	11.4	9.7	6.9	3.4	0.0
65°	16.5	14.1	12.1	10.2	7.6	3.8	0.0
62.5°	17.9	15.2	12.8	10.7	8.3	4.2	0.0
60°	19.2	16.4	13.5	11.2	9.0	4.5	0.0
57.5°	21.5	17.5	14.3	11.7	9.3	4.8	0.0
55°	23.8	18.5	15.2	12.2	9.7	5.2	0.0
52.5°	26.0	19.7	16.0	12.7	10.0	5.5	0.0
50°	28.1	21.5	16.8	13.2	10.3	5.8	0.0
47.5°	30.4	23.2	17.6	13.6	10.6	6.1	0.0
45°	33.8	24.9	18.3	14.2	10.9	6.4	0.0
42.5°	37.1	26.5	19.1	14.7	11.1	6.6	0.0
40°	40.2	28.0	20.0	15.2	11.4	6.9	0.0
37.5°	43.1	29.4	21.2	15.7	11.6	7.1	0.0
35°	45.9	31.4	22.2	16.2	11.9	7.4	0.0
32.5°	50.5	33.6	23.3	16.6	12.1	7.6	0.0
30°	58.9	35.7	24.2	17.0	12.3	7.8	0.0
27.5°	66.7	37.6	25.1	17.4	12.5	8.0	0.0
25°	73.9	39.3	25.9	17.7	12.7	8.2	0.0
22.5°	80.5	40.9	26.7	18.0	12.8	8.3	0.0
20°	86.4	42.3	27.3	18.3	13.0	8.5	0.0
17.5°	91.7	43.6	27.9	18.6	13.1	8.6	0.0
15°	96.3	44.7	28.5	18.8	13.2	8.7	0.0
12.5°	100.2	45.6	28.9	19.0	13.3	8.8	0.0
10°	103.4	46.4	29.3	19.1	13.4	8.9	0.0
7.5°	105.9	47.0	29.5	19.2	13.4	8.9	0.0
5°	107.7	47.5	29.7	19.3	13.5	9.0	0.0
2.5°	108.7	47.7	29.9	19.4	13.5	9.0	0.0
0°	109.1	47.8	29.9	19.4	13.5	9.0	0.0
-2.5°	108.7	47.7	29.9	19.4	13.5	9.0	0.0
-5°	107.7	47.5	29.7	19.3	13.5	9.0	0.0
-7.5°	105.9	47.0	29.5	19.2	13.4	8.9	0.0
-10°	103.4	46.4	29.3	19.1	13.4	8.9	0.0
-12.5°	100.2	45.6	28.9	19.0	13.3	8.8	0.0
-15°	96.3	44.7	28.5	18.8	13.2	8.7	0.0
-17.5°	91.7	43.6	27.9	18.6	13.1	8.6	0.0
-20°	86.4	42.3	27.3	18.3	13.0	8.5	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	80.5	40.9	26.7	18.0	12.8	8.3	0.0
-25°	73.9	39.3	25.9	17.7	12.7	8.2	0.0
-27.5°	66.7	37.6	25.1	17.4	12.5	8.0	0.0
-30°	58.9	35.7	24.2	17.0	12.3	7.8	0.0
-32.5°	50.5	33.6	23.3	16.6	12.1	7.6	0.0
-35°	45.9	31.4	22.2	16.2	11.9	7.4	0.0
-37.5°	43.1	29.4	21.2	15.7	11.6	7.1	0.0
-40°	40.2	28.0	20.0	15.2	11.4	6.9	0.0
-42.5°	37.1	26.5	19.1	14.7	11.1	6.6	0.0
-45°	33.8	24.9	18.3	14.2	10.9	6.4	0.0
-47.5°	30.4	23.2	17.6	13.6	10.6	6.1	0.0
-50°	28.1	21.5	16.8	13.2	10.3	5.8	0.0
-52.5°	26.0	19.7	16.0	12.7	10.0	5.5	0.0
-55°	23.8	18.5	15.2	12.2	9.7	5.2	0.0
-57.5°	21.5	17.5	14.3	11.7	9.3	4.8	0.0
-60°	19.2	16.4	13.5	11.2	9.0	4.5	0.0
-62.5°	17.9	15.2	12.8	10.7	8.3	4.2	0.0
-65°	16.5	14.1	12.1	10.2	7.6	3.8	0.0
-67.5°	15.1	13.1	11.4	9.7	6.9	3.4	0.0
-70°	13.7	12.1	10.6	9.1	6.1	3.1	0.0
-72.5°	12.5	11.2	9.9	8.1	5.4	2.7	0.0
-75°	11.4	10.3	9.1	7.0	4.7	2.3	0.0
-77.5°	10.3	9.3	7.8	5.8	3.9	1.9	0.0
-80°	9.1	7.8	6.2	4.7	3.1	1.6	0.0
-82.5°	7.0	5.8	4.7	3.5	2.3	1.2	0.0
-85°	4.7	3.9	3.1	2.3	1.6	0.8	0.0
-87.5°	2.3	1.9	1.6	1.2	0.8	0.4	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

