

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: P731238 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-40-70-5S-HEG**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731238 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-LS-08-0530N-40-70-5S-HEG  
Description: EPHEBUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 70 CRI LEDS AND 5S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

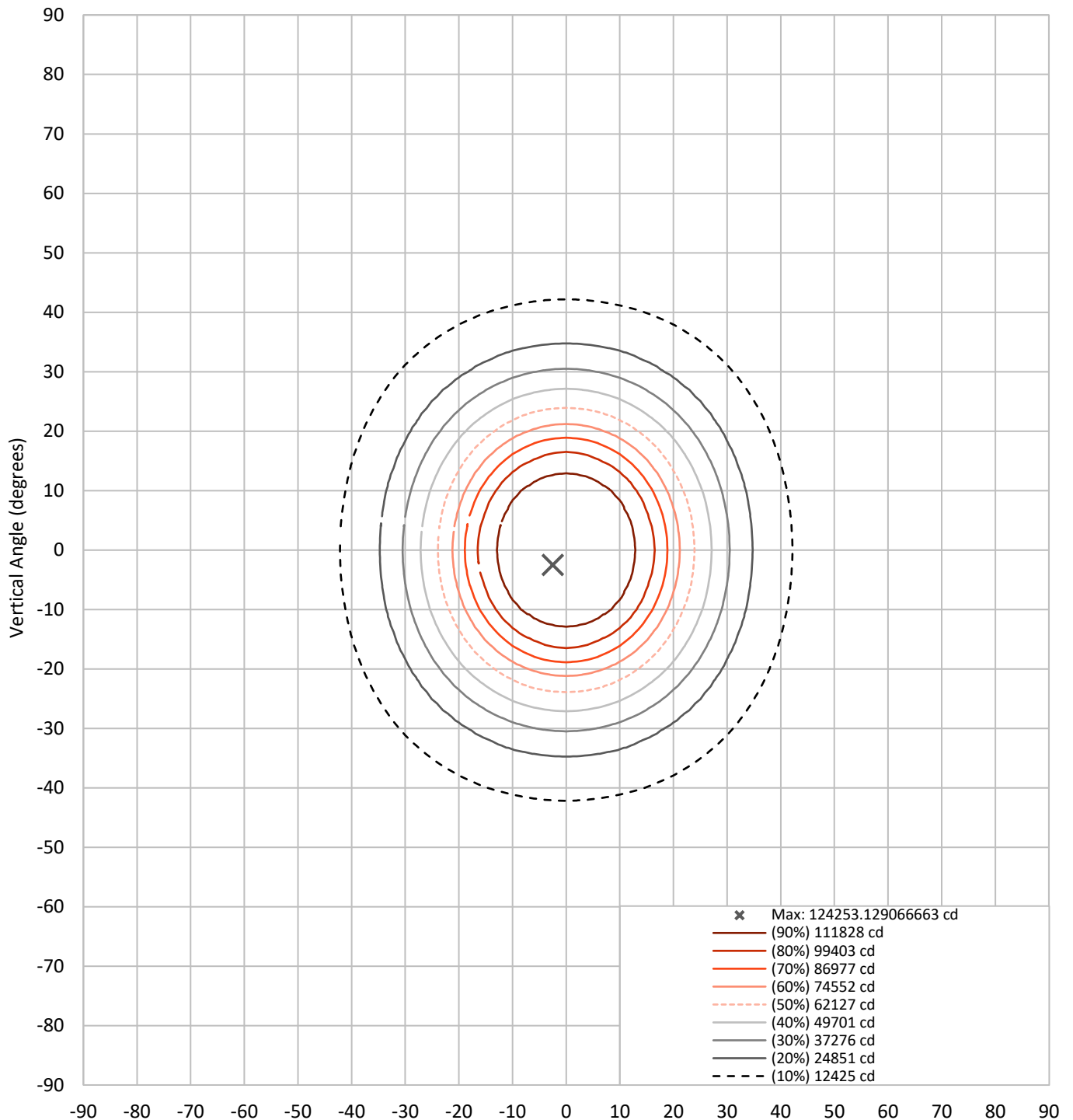
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	90821.6 lumens	Max Intensity:	124253.1 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x -2.5°V
Efficacy:	162.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	47.6°H x 47.6°V	Field Angle (10%):	84.3°H x 84.3°V
Beam Lumens:	50950.9 lumens	Field Lumens:	84623.2 lumens
Beam Efficiency:	56.1%	Field Efficiency:	93.2%

Input Watts (W): 559.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Iso-Candela Plot





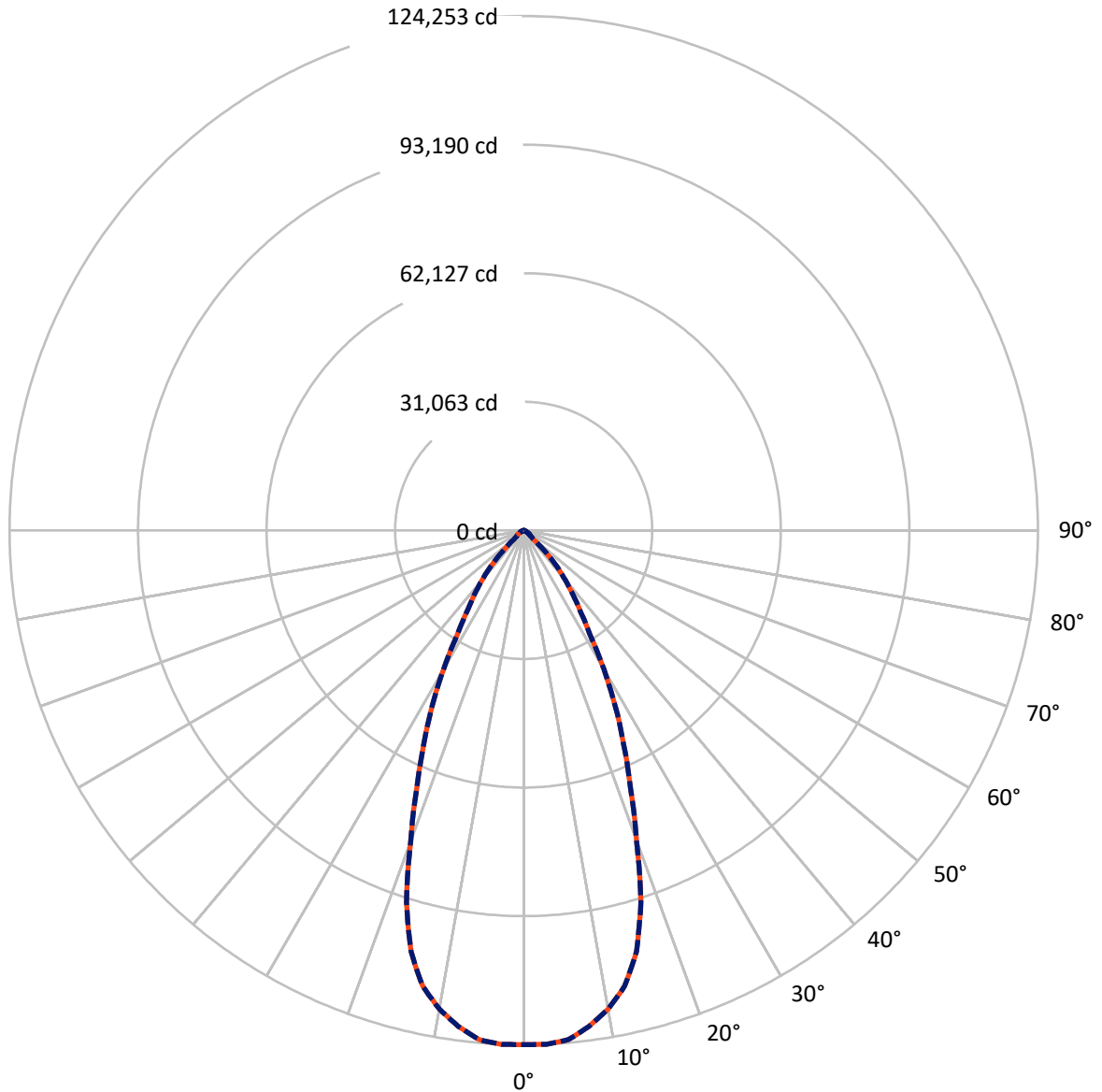
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 CATALOG NUMBER: EPH-LS-08-0530N-40-70-5S-HEG

### Lumen Table

90																
80	0.1	0.9		2.9		6.1		7.8		6.1		2.9		0.9	0.1	
70																
60	0.4	0.5	1.5	3.9	8.0	13.1	17.7	20.4	20.4	17.7	13.1	8.0	3.9	1.5	0.5	0.4
50		1.1	4.6	12.5	24.4	37.3	47.0	52.2	52.2	47.0	37.3	24.4	12.5	4.6	1.1	
40	0.9	2.4	10.2	26.0	44.8	80.8	164.6	231.7	231.7	164.6	80.8	44.8	26.0	10.2	2.4	0.9
30		4.3	17.3	38.8	112.7	341.2	576.1	738.1	738.1	576.1	341.2	112.7	38.8	17.3	4.3	
20	1.7	6.3	23.9	63.8	310.0	705.4	1262.4	1694.3	1694.3	1262.4	705.4	310.0	63.8	23.9	6.3	1.7
10		8.1	28.2	123.4	491.7	1188.0	2207.6	3007.7	3007.7	2207.6	1188.0	491.7	123.4	28.2	8.1	
0	2.1	9.0	30.4	168.7	611.9	1547.9	2920.1	3645.0	3645.0	2920.1	1547.9	611.9	168.7	30.4	9.0	2.1
-10		9.0	30.4	168.7	611.9	1547.9	2920.1	3645.0	3645.0	2920.1	1547.9	611.9	168.7	30.4	9.0	
-20	1.7	8.1	28.2	123.4	491.7	1188.0	2207.6	3007.7	3007.7	2207.6	1188.0	491.7	123.4	28.2	8.1	1.7
-30		6.3	23.9	63.8	310.0	705.4	1262.4	1694.3	1694.3	1262.4	705.4	310.0	63.8	23.9	6.3	
-40	0.9	4.3	17.3	38.8	112.7	341.2	576.1	738.1	738.1	576.1	341.2	112.7	38.8	17.3	4.3	0.9
-50		2.4	10.2	26.0	44.8	80.8	164.6	231.7	231.7	164.6	80.8	44.8	26.0	10.2	2.4	
-60	0.4	1.1	4.6	12.5	24.4	37.3	47.0	52.2	52.2	47.0	37.3	24.4	12.5	4.6	1.1	0.4
-70		0.5	1.5	3.9	8.0	13.1	17.7	20.4	20.4	17.7	13.1	8.0	3.9	1.5	0.5	
-80																
-90	0.1	0.9		2.9		6.1		7.8		6.1		2.9		0.9	0.1	

REPORT NUMBER: P731238 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: EPH-LS-08-0530N-40-70-5S-HEG

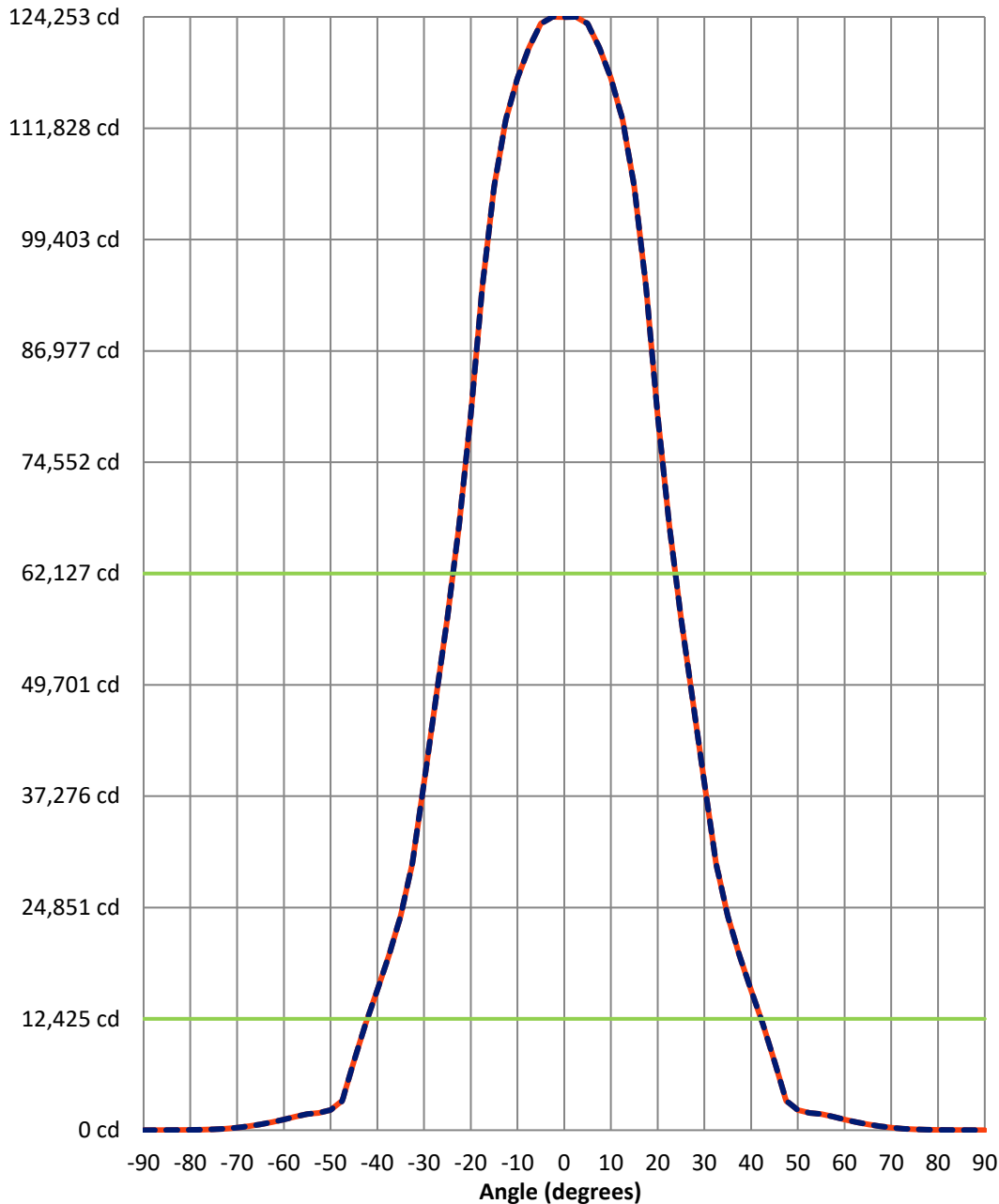
### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: EPH-LS-08-0530N-40-70-5S-HEG

### Luminous Intensity Plot



**Beam:**  
 H Angle: 47.6°  
 V Angle: 47.6°  
 Lumens: 50950.9  
 Efficiency: 56.1%

**Field:**  
 H Angle: 84.3°  
 V Angle: 84.3°  
 Lumens: 84623.2  
 Efficiency: 93.2%

**Spill:**  
 Lumens: 6198.4  
 Efficiency: 6.8%

- Vertical Distribution through -2.5-Deg
- - - Horizontal Distribution through -2.5-Deg



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.3	0.5	0.8	1.0	1.3	1.6	1.8	2.1	2.3	2.5
85°	0.0	0.5	1.0	1.6	2.1	2.6	3.1	3.6	4.1	4.6	5.1
82.5°	0.0	0.8	1.6	2.3	3.1	3.9	4.6	5.4	6.1	6.9	7.6
80°	0.0	1.0	2.1	3.1	4.1	5.2	6.2	7.2	8.2	9.2	10.2
77.5°	0.0	1.3	2.6	3.9	5.2	6.5	7.7	9.0	10.3	11.5	12.8
75°	0.0	1.6	3.1	4.6	6.2	7.7	9.3	10.8	12.3	14.2	15.9
72.5°	0.0	1.8	3.6	5.4	7.2	9.0	10.8	12.7	14.8	16.9	19.0
70°	0.0	2.1	4.1	6.1	8.2	10.3	12.3	14.8	17.3	19.7	23.0
67.5°	0.0	2.3	4.6	6.9	9.2	11.5	14.2	16.9	19.7	23.5	27.3
65°	0.0	2.5	5.1	7.6	10.2	12.8	15.9	19.0	23.0	27.3	33.0
62.5°	0.0	2.8	5.5	8.3	11.1	14.3	17.7	21.6	26.3	31.9	42.3
60°	0.0	3.0	6.0	9.0	12.1	15.7	19.4	24.5	29.5	40.1	51.4
57.5°	0.0	3.2	6.4	9.7	13.2	17.1	21.7	27.2	35.9	48.2	65.2
55°	0.0	3.4	6.9	10.4	14.2	18.5	24.0	29.9	42.9	57.4	81.0
52.5°	0.0	3.7	7.3	11.0	15.3	19.9	26.2	35.5	49.6	71.3	96.4
50°	0.0	3.9	7.7	11.6	16.3	21.7	28.4	41.2	57.8	84.7	117.3
47.5°	0.0	4.1	8.1	12.3	17.3	23.5	30.9	46.8	69.3	97.7	138.3
45°	0.0	4.2	8.5	13.0	18.3	25.1	35.5	52.1	80.4	115.7	158.6
42.5°	0.0	4.4	8.9	13.7	19.2	26.7	39.8	59.7	91.1	133.2	193.0
40°	0.0	4.6	9.2	14.3	20.2	28.3	44.0	68.6	102.8	149.9	228.4
37.5°	0.0	4.8	9.6	14.9	21.4	29.7	48.0	77.1	116.9	169.8	262.2
35°	0.0	4.9	9.9	15.5	22.5	32.2	51.8	85.1	130.2	198.5	298.7
32.5°	0.0	5.1	10.2	16.1	23.5	35.2	56.2	92.6	142.8	225.5	340.0
30°	0.0	5.2	10.5	16.6	24.5	37.9	62.2	100.4	154.5	250.9	378.6
27.5°	0.0	5.3	10.7	17.0	25.4	40.5	67.8	109.9	169.1	274.4	414.6
25°	0.0	5.4	11.0	17.5	26.2	42.9	72.9	118.7	188.3	301.3	448.1
22.5°	0.0	5.5	11.2	17.9	26.9	45.0	77.6	126.7	205.8	328.3	486.0
20°	0.0	5.6	11.4	18.2	27.6	46.9	81.9	133.9	221.6	352.8	520.1
17.5°	0.0	5.7	11.5	18.6	28.2	48.6	85.6	140.2	235.6	374.4	550.5
15°	0.0	5.8	11.7	18.8	28.7	50.1	88.9	145.8	247.8	393.4	577.0
12.5°	0.0	5.9	11.8	19.1	29.2	51.4	91.6	150.6	258.2	409.5	599.6
10°	0.0	5.9	11.9	19.3	29.5	52.4	93.9	154.4	266.7	422.7	618.2
7.5°	0.0	5.9	12.0	19.4	29.8	53.3	95.7	157.5	273.4	433.1	632.7
5°	0.0	6.0	12.1	19.5	30.0	53.8	97.0	159.7	278.2	440.5	643.1
2.5°	0.0	6.0	12.1	19.6	30.2	54.2	97.7	161.0	281.0	444.9	649.3
0°	0.0	6.0	12.1	19.6	30.2	54.3	98.0	161.4	282.0	446.4	651.4
-2.5°	0.0	6.0	12.1	19.6	30.2	54.3	98.0	161.4	282.0	446.4	651.4
-5°	0.0	6.0	12.1	19.5	30.0	53.8	97.0	159.7	278.2	440.5	643.1
-7.5°	0.0	5.9	12.0	19.4	29.8	53.3	95.7	157.5	273.4	433.1	632.7
-10°	0.0	5.9	11.9	19.3	29.5	52.4	93.9	154.4	266.7	422.7	618.2
-12.5°	0.0	5.9	11.8	19.1	29.2	51.4	91.6	150.6	258.2	409.5	599.6
-15°	0.0	5.8	11.7	18.8	28.7	50.1	88.9	145.8	247.8	393.4	577.0
-17.5°	0.0	5.7	11.5	18.6	28.2	48.6	85.6	140.2	235.6	374.4	550.5
-20°	0.0	5.6	11.4	18.2	27.6	46.9	81.9	133.9	221.6	352.8	520.1



REPORT NUMBER: P731238 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-5S-HEG

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	5.5	11.2	17.9	26.9	45.0	77.6	126.7	205.8	328.3	486.0
-25°	0.0	5.4	11.0	17.5	26.2	42.9	72.9	118.7	188.3	301.3	448.1
-27.5°	0.0	5.3	10.7	17.0	25.4	40.5	67.8	109.9	169.1	274.4	414.6
-30°	0.0	5.2	10.5	16.6	24.5	37.9	62.2	100.4	154.5	250.9	378.6
-32.5°	0.0	5.1	10.2	16.1	23.5	35.2	56.2	92.6	142.8	225.5	340.0
-35°	0.0	4.9	9.9	15.5	22.5	32.2	51.8	85.1	130.2	198.5	298.7
-37.5°	0.0	4.8	9.6	14.9	21.4	29.7	48.0	77.1	116.9	169.8	262.2
-40°	0.0	4.6	9.2	14.3	20.2	28.3	44.0	68.6	102.8	149.9	228.4
-42.5°	0.0	4.4	8.9	13.7	19.2	26.7	39.8	59.7	91.1	133.2	193.0
-45°	0.0	4.2	8.5	13.0	18.3	25.1	35.5	52.1	80.4	115.7	158.6
-47.5°	0.0	4.1	8.1	12.3	17.3	23.5	30.9	46.8	69.3	97.7	138.3
-50°	0.0	3.9	7.7	11.6	16.3	21.7	28.4	41.2	57.8	84.7	117.3
-52.5°	0.0	3.7	7.3	11.0	15.3	19.9	26.2	35.5	49.6	71.3	96.4
-55°	0.0	3.4	6.9	10.4	14.2	18.5	24.0	29.9	42.9	57.4	81.0
-57.5°	0.0	3.2	6.4	9.7	13.2	17.1	21.7	27.2	35.9	48.2	65.2
-60°	0.0	3.0	6.0	9.0	12.1	15.7	19.4	24.5	29.5	40.1	51.4
-62.5°	0.0	2.8	5.5	8.3	11.1	14.3	17.7	21.6	26.3	31.9	42.3
-65°	0.0	2.5	5.1	7.6	10.2	12.8	15.9	19.0	23.0	27.3	33.0
-67.5°	0.0	2.3	4.6	6.9	9.2	11.5	14.2	16.9	19.7	23.5	27.3
-70°	0.0	2.1	4.1	6.1	8.2	10.3	12.3	14.8	17.3	19.7	23.0
-72.5°	0.0	1.8	3.6	5.4	7.2	9.0	10.8	12.7	14.8	16.9	19.0
-75°	0.0	1.6	3.1	4.6	6.2	7.7	9.3	10.8	12.3	14.2	15.9
-77.5°	0.0	1.3	2.6	3.9	5.2	6.5	7.7	9.0	10.3	11.5	12.8
-80°	0.0	1.0	2.1	3.1	4.1	5.2	6.2	7.2	8.2	9.2	10.2
-82.5°	0.0	0.8	1.6	2.3	3.1	3.9	4.6	5.4	6.1	6.9	7.6
-85°	0.0	0.5	1.0	1.6	2.1	2.6	3.1	3.6	4.1	4.6	5.1
-87.5°	0.0	0.3	0.5	0.8	1.0	1.3	1.6	1.8	2.1	2.3	2.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





REPORT NUMBER: P731238 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-5S-HEG

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	3.0	3.2	3.4	3.7	3.9	4.1	4.2	4.4	4.6	4.8
85°	5.5	6.0	6.4	6.9	7.3	7.7	8.1	8.5	8.9	9.2	9.6
82.5°	8.3	9.0	9.7	10.4	11.0	11.6	12.3	13.0	13.7	14.3	14.9
80°	11.1	12.1	13.2	14.2	15.3	16.3	17.3	18.3	19.2	20.2	21.4
77.5°	14.3	15.7	17.1	18.5	19.9	21.7	23.5	25.1	26.7	28.3	29.7
75°	17.7	19.4	21.7	24.0	26.2	28.4	30.9	35.5	39.8	44.0	48.0
72.5°	21.6	24.5	27.2	29.9	35.5	41.2	46.8	52.1	59.7	68.6	77.1
70°	26.3	29.5	35.9	42.9	49.6	57.8	69.3	80.4	91.1	102.8	116.9
67.5°	31.9	40.1	48.2	57.4	71.3	84.7	97.7	115.7	133.2	149.9	169.8
65°	42.3	51.4	65.2	81.0	96.4	117.3	138.3	158.6	193.0	228.4	262.2
62.5°	52.5	69.1	86.9	107.1	131.6	155.5	194.1	236.5	277.3	329.0	379.9
60°	69.1	88.9	112.8	140.2	172.1	221.6	269.6	328.3	389.3	448.1	517.8
57.5°	86.9	112.8	143.1	183.1	238.2	295.4	366.4	435.2	515.0	594.4	674.5
55°	107.1	140.2	183.1	243.8	310.7	389.5	470.9	563.5	653.1	758.0	858.5
52.5°	131.6	172.1	238.2	310.7	397.2	490.3	592.8	701.2	818.5	936.2	1061.5
50°	155.5	221.6	295.4	389.5	490.3	602.6	725.3	855.1	993.1	1133.2	1278.2
47.5°	194.1	269.6	366.4	470.9	592.8	725.3	867.4	1021.8	1176.7	1344.7	1508.2
45°	236.5	328.3	435.2	563.5	701.2	855.1	1021.8	1191.3	1378.2	1553.8	1704.2
42.5°	277.3	389.3	515.0	653.1	818.5	993.1	1176.7	1378.2	1568.5	1734.0	1843.9
40°	329.0	448.1	594.4	758.0	936.2	1133.2	1344.7	1553.8	1734.0	1850.7	1926.5
37.5°	379.9	517.8	674.5	858.5	1061.5	1278.2	1508.2	1704.2	1843.9	1926.5	2128.3
35°	428.3	584.0	762.8	962.5	1181.1	1424.3	1644.9	1823.6	1912.6	2109.9	2484.0
32.5°	480.8	646.6	846.3	1067.5	1308.6	1557.2	1773.5	1885.1	2054.9	2363.1	3103.8
30°	534.2	717.4	928.5	1166.3	1430.2	1670.4	1844.5	1964.5	2216.8	2918.9	4919.6
27.5°	584.0	784.4	1013.3	1267.8	1540.7	1776.4	1895.6	2107.0	2614.9	3858.4	7289.8
25°	630.0	846.3	1091.8	1365.0	1631.8	1835.5	1963.8	2239.9	3074.3	5939.2	9412.0
22.5°	676.6	903.2	1163.8	1454.2	1715.4	1876.0	2077.6	2592.7	4090.9	7864.7	11359.0
20°	723.1	962.5	1234.0	1533.0	1791.4	1912.9	2181.1	2952.8	5732.2	9525.9	13024.0
17.5°	764.4	1015.3	1299.9	1595.2	1828.4	1970.9	2307.5	3276.3	7209.3	11024.5	14472.0
15°	800.5	1061.5	1357.6	1649.7	1855.0	2046.0	2570.0	4350.7	8467.8	12309.8	15757.4
12.5°	831.2	1100.9	1406.8	1696.3	1877.7	2110.3	2794.9	5382.6	9519.6	13331.2	16911.7
10°	856.5	1133.2	1447.3	1734.6	1896.5	2163.4	2980.8	6237.0	10392.0	14179.8	17872.9
7.5°	876.3	1158.6	1479.0	1764.7	1911.2	2205.0	3126.8	6908.1	11078.0	14848.3	18631.5
5°	890.4	1176.7	1501.8	1786.2	1921.7	2234.9	3231.7	7391.1	11572.3	15330.4	19179.5
2.5°	899.0	1187.7	1515.4	1799.2	1928.1	2252.9	3294.9	7682.3	11870.5	15621.6	19510.7
0°	901.8	1191.3	1520.0	1803.5	1930.2	2258.9	3316.0	7779.6	11970.2	15719.0	19621.6
-2.5°	899.0	1187.7	1515.4	1799.2	1928.1	2252.9	3294.9	7682.3	11870.5	15621.6	19510.7
-5°	890.4	1176.7	1501.8	1786.2	1921.7	2234.9	3231.7	7391.1	11572.3	15330.4	19179.5
-7.5°	876.3	1158.6	1479.0	1764.7	1911.2	2205.0	3126.8	6908.1	11078.0	14848.3	18631.5
-10°	856.5	1133.2	1447.3	1734.6	1896.5	2163.4	2980.8	6237.0	10392.0	14179.8	17872.9
-12.5°	831.2	1100.9	1406.8	1696.3	1877.7	2110.3	2794.9	5382.6	9519.6	13331.2	16911.7
-15°	800.5	1061.5	1357.6	1649.7	1855.0	2046.0	2570.0	4350.7	8467.8	12309.8	15757.4
-17.5°	764.4	1015.3	1299.9	1595.2	1828.4	1970.9	2307.5	3276.3	7209.3	11024.5	14472.0
-20°	723.1	962.5	1234.0	1533.0	1791.4	1912.9	2181.1	2952.8	5732.2	9525.9	13024.0



REPORT NUMBER: P731238 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-5S-HEG

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	676.6	903.2	1163.8	1454.2	1715.4	1876.0	2077.6	2592.7	4090.9	7864.7	11359.0
-25°	630.0	846.3	1091.8	1365.0	1631.8	1835.5	1963.8	2239.9	3074.3	5939.2	9412.0
-27.5°	584.0	784.4	1013.3	1267.8	1540.7	1776.4	1895.6	2107.0	2614.9	3858.4	7289.8
-30°	534.2	717.4	928.5	1166.3	1430.2	1670.4	1844.5	1964.5	2216.8	2918.9	4919.6
-32.5°	480.8	646.6	846.3	1067.5	1308.6	1557.2	1773.5	1885.1	2054.9	2363.1	3103.8
-35°	428.3	584.0	762.8	962.5	1181.1	1424.3	1644.9	1823.6	1912.6	2109.9	2484.0
-37.5°	379.9	517.8	674.5	858.5	1061.5	1278.2	1508.2	1704.2	1843.9	1926.5	2128.3
-40°	329.0	448.1	594.4	758.0	936.2	1133.2	1344.7	1553.8	1734.0	1850.7	1926.5
-42.5°	277.3	389.3	515.0	653.1	818.5	993.1	1176.7	1378.2	1568.5	1734.0	1843.9
-45°	236.5	328.3	435.2	563.5	701.2	855.1	1021.8	1191.3	1378.2	1553.8	1704.2
-47.5°	194.1	269.6	366.4	470.9	592.8	725.3	867.4	1021.8	1176.7	1344.7	1508.2
-50°	155.5	221.6	295.4	389.5	490.3	602.6	725.3	855.1	993.1	1133.2	1278.2
-52.5°	131.6	172.1	238.2	310.7	397.2	490.3	592.8	701.2	818.5	936.2	1061.5
-55°	107.1	140.2	183.1	243.8	310.7	389.5	470.9	563.5	653.1	758.0	858.5
-57.5°	86.9	112.8	143.1	183.1	238.2	295.4	366.4	435.2	515.0	594.4	674.5
-60°	69.1	88.9	112.8	140.2	172.1	221.6	269.6	328.3	389.3	448.1	517.8
-62.5°	52.5	69.1	86.9	107.1	131.6	155.5	194.1	236.5	277.3	329.0	379.9
-65°	42.3	51.4	65.2	81.0	96.4	117.3	138.3	158.6	193.0	228.4	262.2
-67.5°	31.9	40.1	48.2	57.4	71.3	84.7	97.7	115.7	133.2	149.9	169.8
-70°	26.3	29.5	35.9	42.9	49.6	57.8	69.3	80.4	91.1	102.8	116.9
-72.5°	21.6	24.5	27.2	29.9	35.5	41.2	46.8	52.1	59.7	68.6	77.1
-75°	17.7	19.4	21.7	24.0	26.2	28.4	30.9	35.5	39.8	44.0	48.0
-77.5°	14.3	15.7	17.1	18.5	19.9	21.7	23.5	25.1	26.7	28.3	29.7
-80°	11.1	12.1	13.2	14.2	15.3	16.3	17.3	18.3	19.2	20.2	21.4
-82.5°	8.3	9.0	9.7	10.4	11.0	11.6	12.3	13.0	13.7	14.3	14.9
-85°	5.5	6.0	6.4	6.9	7.3	7.7	8.1	8.5	8.9	9.2	9.6
-87.5°	2.8	3.0	3.2	3.4	3.7	3.9	4.1	4.2	4.4	4.6	4.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731238 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-5S-HEG

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	5.9
85°	9.9	10.2	10.5	10.7	11.0	11.2	11.4	11.5	11.7	11.8	11.9
82.5°	15.5	16.1	16.6	17.0	17.5	17.9	18.2	18.6	18.8	19.1	19.3
80°	22.5	23.5	24.5	25.4	26.2	26.9	27.6	28.2	28.7	29.2	29.5
77.5°	32.2	35.2	37.9	40.5	42.9	45.0	46.9	48.6	50.1	51.4	52.4
75°	51.8	56.2	62.2	67.8	72.9	77.6	81.9	85.6	88.9	91.6	93.9
72.5°	85.1	92.6	100.4	109.9	118.7	126.7	133.9	140.2	145.8	150.6	154.4
70°	130.2	142.8	154.5	169.1	188.3	205.8	221.6	235.6	247.8	258.2	266.7
67.5°	198.5	225.5	250.9	274.4	301.3	328.3	352.8	374.4	393.4	409.5	422.7
65°	298.7	340.0	378.6	414.6	448.1	486.0	520.1	550.5	577.0	599.6	618.2
62.5°	428.3	480.8	534.2	584.0	630.0	676.6	723.1	764.4	800.5	831.2	856.5
60°	584.0	646.6	717.4	784.4	846.3	903.2	962.5	1015.3	1061.5	1100.9	1133.2
57.5°	762.8	846.3	928.5	1013.3	1091.8	1163.8	1234.0	1299.9	1357.6	1406.8	1447.3
55°	962.5	1067.5	1166.3	1267.8	1365.0	1454.2	1533.0	1595.2	1649.7	1696.3	1734.6
52.5°	1181.1	1308.6	1430.2	1540.7	1631.8	1715.4	1791.4	1828.4	1855.0	1877.7	1896.5
50°	1424.3	1557.2	1670.4	1776.4	1835.5	1876.0	1912.9	1970.9	2046.0	2110.3	2163.4
47.5°	1644.9	1773.5	1844.5	1895.6	1963.8	2077.6	2181.1	2307.5	2570.0	2794.9	2980.8
45°	1823.6	1885.1	1964.5	2107.0	2239.9	2592.7	2952.8	3276.3	4350.7	5382.6	6237.0
42.5°	1912.6	2054.9	2216.8	2614.9	3074.3	4090.9	5732.2	7209.3	8467.8	9519.6	10392.0
40°	2109.9	2363.1	2918.9	3858.4	5939.2	7864.7	9525.9	11024.5	12309.8	13331.2	14179.8
37.5°	2484.0	3103.8	4919.6	7289.8	9412.0	11359.0	13024.0	14472.0	15757.4	16911.7	17872.9
35°	3165.9	5456.2	8092.5	10464.7	12624.9	14493.5	16236.6	17864.1	19311.8	20692.7	21880.4
32.5°	5456.2	8352.1	10997.7	13358.5	15495.8	17571.4	19500.6	21477.9	23257.6	25061.5	26798.0
30°	8092.5	10997.7	13605.2	16015.9	18388.5	20754.9	23108.0	25673.0	28259.8	30804.1	33720.4
27.5°	10464.7	13358.5	16015.9	18663.7	21400.7	24129.4	27518.6	30984.2	35297.9	39081.6	42339.3
25°	12624.9	15495.8	18388.5	21400.7	24582.0	28459.3	33234.0	38405.0	43169.3	47385.4	50947.3
22.5°	14493.5	17571.4	20754.9	24129.4	28459.3	33994.7	40012.0	45704.8	50881.8	55464.5	59623.1
20°	16236.6	19500.6	23108.0	27518.6	33234.0	40012.0	46564.7	52676.2	58379.5	64079.2	69194.8
17.5°	17864.1	21477.9	25673.0	30984.2	38405.0	45704.8	52676.2	59468.9	66389.5	73584.1	80157.5
15°	19311.8	23257.6	28259.8	35297.9	43169.3	50881.8	58379.5	66389.5	75089.6	83865.2	92470.6
12.5°	20692.7	25061.5	30804.1	39081.6	47385.4	55464.5	64079.2	73584.1	83865.2	94560.7	101954.9
10°	21880.4	26798.0	33720.4	42339.3	50947.3	59623.1	69194.8	80157.5	92470.6	101954.9	109066.8
7.5°	22819.9	28175.4	36041.4	44943.1	53802.6	63216.0	74012.0	86443.0	98558.0	107633.8	113382.3
5°	23499.7	29174.3	37729.2	46843.3	55895.5	65864.8	77590.9	91212.1	102677.7	110937.2	116000.6
2.5°	23911.2	29779.9	38754.5	48000.4	57174.0	67489.8	79799.3	94179.0	105271.6	112767.2	117406.9
0°	24049.0	29982.8	39098.4	48389.0	57604.1	68037.7	80546.3	95187.1	106159.0	113329.4	117887.9
-2.5°	23911.2	29779.9	38754.5	48000.4	57174.0	67489.8	79799.3	94179.0	105271.6	112767.2	117406.9
-5°	23499.7	29174.3	37729.2	46843.3	55895.5	65864.8	77590.9	91212.1	102677.7	110937.2	116000.6
-7.5°	22819.9	28175.4	36041.4	44943.1	53802.6	63216.0	74012.0	86443.0	98558.0	107633.8	113382.3
-10°	21880.4	26798.0	33720.4	42339.3	50947.3	59623.1	69194.8	80157.5	92470.6	101954.9	109066.8
-12.5°	20692.7	25061.5	30804.1	39081.6	47385.4	55464.5	64079.2	73584.1	83865.2	94560.7	101954.9
-15°	19311.8	23257.6	28259.8	35297.9	43169.3	50881.8	58379.5	66389.5	75089.6	83865.2	92470.6
-17.5°	17864.1	21477.9	25673.0	30984.2	38405.0	45704.8	52676.2	59468.9	66389.5	73584.1	80157.5
-20°	16236.6	19500.6	23108.0	27518.6	33234.0	40012.0	46564.7	52676.2	58379.5	64079.2	69194.8



REPORT NUMBER: P731238 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-5S-HEG

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	14493.5	17571.4	20754.9	24129.4	28459.3	33994.7	40012.0	45704.8	50881.8	55464.5	59623.1
-25°	12624.9	15495.8	18388.5	21400.7	24582.0	28459.3	33234.0	38405.0	43169.3	47385.4	50947.3
-27.5°	10464.7	13358.5	16015.9	18663.7	21400.7	24129.4	27518.6	30984.2	35297.9	39081.6	42339.3
-30°	8092.5	10997.7	13605.2	16015.9	18388.5	20754.9	23108.0	25673.0	28259.8	30804.1	33720.4
-32.5°	5456.2	8352.1	10997.7	13358.5	15495.8	17571.4	19500.6	21477.9	23257.6	25061.5	26798.0
-35°	3165.9	5456.2	8092.5	10464.7	12624.9	14493.5	16236.6	17864.1	19311.8	20692.7	21880.4
-37.5°	2484.0	3103.8	4919.6	7289.8	9412.0	11359.0	13024.0	14472.0	15757.4	16911.7	17872.9
-40°	2109.9	2363.1	2918.9	3858.4	5939.2	7864.7	9525.9	11024.5	12309.8	13331.2	14179.8
-42.5°	1912.6	2054.9	2216.8	2614.9	3074.3	4090.9	5732.2	7209.3	8467.8	9519.6	10392.0
-45°	1823.6	1885.1	1964.5	2107.0	2239.9	2592.7	2952.8	3276.3	4350.7	5382.6	6237.0
-47.5°	1644.9	1773.5	1844.5	1895.6	1963.8	2077.6	2181.1	2307.5	2570.0	2794.9	2980.8
-50°	1424.3	1557.2	1670.4	1776.4	1835.5	1876.0	1912.9	1970.9	2046.0	2110.3	2163.4
-52.5°	1181.1	1308.6	1430.2	1540.7	1631.8	1715.4	1791.4	1828.4	1855.0	1877.7	1896.5
-55°	962.5	1067.5	1166.3	1267.8	1365.0	1454.2	1533.0	1595.2	1649.7	1696.3	1734.6
-57.5°	762.8	846.3	928.5	1013.3	1091.8	1163.8	1234.0	1299.9	1357.6	1406.8	1447.3
-60°	584.0	646.6	717.4	784.4	846.3	903.2	962.5	1015.3	1061.5	1100.9	1133.2
-62.5°	428.3	480.8	534.2	584.0	630.0	676.6	723.1	764.4	800.5	831.2	856.5
-65°	298.7	340.0	378.6	414.6	448.1	486.0	520.1	550.5	577.0	599.6	618.2
-67.5°	198.5	225.5	250.9	274.4	301.3	328.3	352.8	374.4	393.4	409.5	422.7
-70°	130.2	142.8	154.5	169.1	188.3	205.8	221.6	235.6	247.8	258.2	266.7
-72.5°	85.1	92.6	100.4	109.9	118.7	126.7	133.9	140.2	145.8	150.6	154.4
-75°	51.8	56.2	62.2	67.8	72.9	77.6	81.9	85.6	88.9	91.6	93.9
-77.5°	32.2	35.2	37.9	40.5	42.9	45.0	46.9	48.6	50.1	51.4	52.4
-80°	22.5	23.5	24.5	25.4	26.2	26.9	27.6	28.2	28.7	29.2	29.5
-82.5°	15.5	16.1	16.6	17.0	17.5	17.9	18.2	18.6	18.8	19.1	19.3
-85°	9.9	10.2	10.5	10.7	11.0	11.2	11.4	11.5	11.7	11.8	11.9
-87.5°	4.9	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	5.9
-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: P731238 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-5S-HEG

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	6.0	6.0	6.0	6.0	6.0	5.9	5.9	5.9	5.8	5.7
85°	12.0	12.1	12.1	12.1	12.1	12.1	12.0	11.9	11.8	11.7	11.5
82.5°	19.4	19.5	19.6	19.6	19.6	19.5	19.4	19.3	19.1	18.8	18.6
80°	29.8	30.0	30.2	30.2	30.2	30.0	29.8	29.5	29.2	28.7	28.2
77.5°	53.3	53.8	54.2	54.3	54.2	53.8	53.3	52.4	51.4	50.1	48.6
75°	95.7	97.0	97.7	98.0	97.7	97.0	95.7	93.9	91.6	88.9	85.6
72.5°	157.5	159.7	161.0	161.4	161.0	159.7	157.5	154.4	150.6	145.8	140.2
70°	273.4	278.2	281.0	282.0	281.0	278.2	273.4	266.7	258.2	247.8	235.6
67.5°	433.1	440.5	444.9	446.4	444.9	440.5	433.1	422.7	409.5	393.4	374.4
65°	632.7	643.1	649.3	651.4	649.3	643.1	632.7	618.2	599.6	577.0	550.5
62.5°	876.3	890.4	899.0	901.8	899.0	890.4	876.3	856.5	831.2	800.5	764.4
60°	1158.6	1176.7	1187.7	1191.3	1187.7	1176.7	1158.6	1133.2	1100.9	1061.5	1015.3
57.5°	1479.0	1501.8	1515.4	1520.0	1515.4	1501.8	1479.0	1447.3	1406.8	1357.6	1299.9
55°	1764.7	1786.2	1799.2	1803.5	1799.2	1786.2	1764.7	1734.6	1696.3	1649.7	1595.2
52.5°	1911.2	1921.7	1928.1	1930.2	1928.1	1921.7	1911.2	1896.5	1877.7	1855.0	1828.4
50°	2205.0	2234.9	2252.9	2258.9	2252.9	2234.9	2205.0	2163.4	2110.3	2046.0	1970.9
47.5°	3126.8	3231.7	3294.9	3316.0	3294.9	3231.7	3126.8	2980.8	2794.9	2570.0	2307.5
45°	6908.1	7391.1	7682.3	7779.6	7682.3	7391.1	6908.1	6237.0	5382.6	4350.7	3276.3
42.5°	11078.0	11572.3	11870.5	11970.2	11870.5	11572.3	11078.0	10392.0	9519.6	8467.8	7209.3
40°	14848.3	15330.4	15621.6	15719.0	15621.6	15330.4	14848.3	14179.8	13331.2	12309.8	11024.5
37.5°	18631.5	19179.5	19510.7	19621.6	19510.7	19179.5	18631.5	17872.9	16911.7	15757.4	14472.0
35°	22819.9	23499.7	23911.2	24049.0	23911.2	23499.7	22819.9	21880.4	20692.7	19311.8	17864.1
32.5°	28175.4	29174.3	29779.9	29982.8	29779.9	29174.3	28175.4	26798.0	25061.5	23257.6	21477.9
30°	36041.4	37729.2	38754.5	39098.4	38754.5	37729.2	36041.4	33720.4	30804.1	28259.8	25673.0
27.5°	44943.1	46843.3	48000.4	48389.0	48000.4	46843.3	44943.1	42339.3	39081.6	35297.9	30984.2
25°	53802.6	55895.5	57174.0	57604.1	57174.0	55895.5	53802.6	50947.3	47385.4	43169.3	38405.0
22.5°	63216.0	65864.8	67489.8	68037.7	67489.8	65864.8	63216.0	59623.1	55464.5	50881.8	45704.8
20°	74012.0	77590.9	79799.3	80546.3	79799.3	77590.9	74012.0	69194.8	64079.2	58379.5	52676.2
17.5°	86443.0	91212.1	94179.0	95187.1	94179.0	91212.1	86443.0	80157.5	73584.1	66389.5	59468.9
15°	98558.0	102677.7	105271.6	106159.0	105271.6	102677.7	98558.0	92470.6	83865.2	75089.6	66389.5
12.5°	107633.8	110937.2	112767.2	113329.4	112767.2	110937.2	107633.8	101954.9	94560.7	83865.2	73584.1
10°	113382.3	116000.6	117406.9	117887.9	117406.9	116000.6	113382.3	109066.8	101954.9	92470.6	80157.5
7.5°	116954.2	119391.4	120855.4	121371.3	120855.4	119391.4	116954.2	113382.3	107633.8	98558.0	86443.0
5°	119391.4	121925.6	123497.7	123977.1	123497.7	121925.6	119391.4	116000.6	110937.2	102677.7	91212.1
2.5°	120855.4	123497.7	124253.1	124227.4	124253.1	123497.7	120855.4	117406.9	112767.2	105271.6	94179.0
0°	121371.3	123977.1	124227.4	123747.9	124227.4	123977.1	121371.3	117887.9	113329.4	106159.0	95187.1
-2.5°	120855.4	123497.7	124253.1	124227.4	124253.1	123497.7	120855.4	117406.9	112767.2	105271.6	94179.0
-5°	119391.4	121925.6	123497.7	123977.1	123497.7	121925.6	119391.4	116000.6	110937.2	102677.7	91212.1
-7.5°	116954.2	119391.4	120855.4	121371.3	120855.4	119391.4	116954.2	113382.3	107633.8	98558.0	86443.0
-10°	113382.3	116000.6	117406.9	117887.9	117406.9	116000.6	113382.3	109066.8	101954.9	92470.6	80157.5
-12.5°	107633.8	110937.2	112767.2	113329.4	112767.2	110937.2	107633.8	101954.9	94560.7	83865.2	73584.1
-15°	98558.0	102677.7	105271.6	106159.0	105271.6	102677.7	98558.0	92470.6	83865.2	75089.6	66389.5
-17.5°	86443.0	91212.1	94179.0	95187.1	94179.0	91212.1	86443.0	80157.5	73584.1	66389.5	59468.9
-20°	74012.0	77590.9	79799.3	80546.3	79799.3	77590.9	74012.0	69194.8	64079.2	58379.5	52676.2



REPORT NUMBER: P731238 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-5S-HEG

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	63216.0	65864.8	67489.8	68037.7	67489.8	65864.8	63216.0	59623.1	55464.5	50881.8	45704.8
-25°	53802.6	55895.5	57174.0	57604.1	57174.0	55895.5	53802.6	50947.3	47385.4	43169.3	38405.0
-27.5°	44943.1	46843.3	48000.4	48389.0	48000.4	46843.3	44943.1	42339.3	39081.6	35297.9	30984.2
-30°	36041.4	37729.2	38754.5	39098.4	38754.5	37729.2	36041.4	33720.4	30804.1	28259.8	25673.0
-32.5°	28175.4	29174.3	29779.9	29982.8	29779.9	29174.3	28175.4	26798.0	25061.5	23257.6	21477.9
-35°	22819.9	23499.7	23911.2	24049.0	23911.2	23499.7	22819.9	21880.4	20692.7	19311.8	17864.1
-37.5°	18631.5	19179.5	19510.7	19621.6	19510.7	19179.5	18631.5	17872.9	16911.7	15757.4	14472.0
-40°	14848.3	15330.4	15621.6	15719.0	15621.6	15330.4	14848.3	14179.8	13331.2	12309.8	11024.5
-42.5°	11078.0	11572.3	11870.5	11970.2	11870.5	11572.3	11078.0	10392.0	9519.6	8467.8	7209.3
-45°	6908.1	7391.1	7682.3	7779.6	7682.3	7391.1	6908.1	6237.0	5382.6	4350.7	3276.3
-47.5°	3126.8	3231.7	3294.9	3316.0	3294.9	3231.7	3126.8	2980.8	2794.9	2570.0	2307.5
-50°	2205.0	2234.9	2252.9	2258.9	2252.9	2234.9	2205.0	2163.4	2110.3	2046.0	1970.9
-52.5°	1911.2	1921.7	1928.1	1930.2	1928.1	1921.7	1911.2	1896.5	1877.7	1855.0	1828.4
-55°	1764.7	1786.2	1799.2	1803.5	1799.2	1786.2	1764.7	1734.6	1696.3	1649.7	1595.2
-57.5°	1479.0	1501.8	1515.4	1520.0	1515.4	1501.8	1479.0	1447.3	1406.8	1357.6	1299.9
-60°	1158.6	1176.7	1187.7	1191.3	1187.7	1176.7	1158.6	1133.2	1100.9	1061.5	1015.3
-62.5°	876.3	890.4	899.0	901.8	899.0	890.4	876.3	856.5	831.2	800.5	764.4
-65°	632.7	643.1	649.3	651.4	649.3	643.1	632.7	618.2	599.6	577.0	550.5
-67.5°	433.1	440.5	444.9	446.4	444.9	440.5	433.1	422.7	409.5	393.4	374.4
-70°	273.4	278.2	281.0	282.0	281.0	278.2	273.4	266.7	258.2	247.8	235.6
-72.5°	157.5	159.7	161.0	161.4	161.0	159.7	157.5	154.4	150.6	145.8	140.2
-75°	95.7	97.0	97.7	98.0	97.7	97.0	95.7	93.9	91.6	88.9	85.6
-77.5°	53.3	53.8	54.2	54.3	54.2	53.8	53.3	52.4	51.4	50.1	48.6
-80°	29.8	30.0	30.2	30.2	30.2	30.0	29.8	29.5	29.2	28.7	28.2
-82.5°	19.4	19.5	19.6	19.6	19.6	19.5	19.4	19.3	19.1	18.8	18.6
-85°	12.0	12.1	12.1	12.1	12.1	12.1	12.0	11.9	11.8	11.7	11.5
-87.5°	5.9	6.0	6.0	6.0	6.0	6.0	5.9	5.9	5.9	5.8	5.7
-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: P731238 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-5S-HEG

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.6	5.5	5.4	5.3	5.2	5.1	4.9	4.8	4.6	4.4	4.2
85°	11.4	11.2	11.0	10.7	10.5	10.2	9.9	9.6	9.2	8.9	8.5
82.5°	18.2	17.9	17.5	17.0	16.6	16.1	15.5	14.9	14.3	13.7	13.0
80°	27.6	26.9	26.2	25.4	24.5	23.5	22.5	21.4	20.2	19.2	18.3
77.5°	46.9	45.0	42.9	40.5	37.9	35.2	32.2	29.7	28.3	26.7	25.1
75°	81.9	77.6	72.9	67.8	62.2	56.2	51.8	48.0	44.0	39.8	35.5
72.5°	133.9	126.7	118.7	109.9	100.4	92.6	85.1	77.1	68.6	59.7	52.1
70°	221.6	205.8	188.3	169.1	154.5	142.8	130.2	116.9	102.8	91.1	80.4
67.5°	352.8	328.3	301.3	274.4	250.9	225.5	198.5	169.8	149.9	133.2	115.7
65°	520.1	486.0	448.1	414.6	378.6	340.0	298.7	262.2	228.4	193.0	158.6
62.5°	723.1	676.6	630.0	584.0	534.2	480.8	428.3	379.9	329.0	277.3	236.5
60°	962.5	903.2	846.3	784.4	717.4	646.6	584.0	517.8	448.1	389.3	328.3
57.5°	1234.0	1163.8	1091.8	1013.3	928.5	846.3	762.8	674.5	594.4	515.0	435.2
55°	1533.0	1454.2	1365.0	1267.8	1166.3	1067.5	962.5	858.5	758.0	653.1	563.5
52.5°	1791.4	1715.4	1631.8	1540.7	1430.2	1308.6	1181.1	1061.5	936.2	818.5	701.2
50°	1912.9	1876.0	1835.5	1776.4	1670.4	1557.2	1424.3	1278.2	1133.2	993.1	855.1
47.5°	2181.1	2077.6	1963.8	1895.6	1844.5	1773.5	1644.9	1508.2	1344.7	1176.7	1021.8
45°	2952.8	2592.7	2239.9	2107.0	1964.5	1885.1	1823.6	1704.2	1553.8	1378.2	1191.3
42.5°	5732.2	4090.9	3074.3	2614.9	2216.8	2054.9	1912.6	1843.9	1734.0	1568.5	1378.2
40°	9525.9	7864.7	5939.2	3858.4	2918.9	2363.1	2109.9	1926.5	1850.7	1734.0	1553.8
37.5°	13024.0	11359.0	9412.0	7289.8	4919.6	3103.8	2484.0	2128.3	1926.5	1843.9	1704.2
35°	16236.6	14493.5	12624.9	10464.7	8092.5	5456.2	3165.9	2484.0	2109.9	1912.6	1823.6
32.5°	19500.6	17571.4	15495.8	13358.5	10997.7	8352.1	5456.2	3103.8	2363.1	2054.9	1885.1
30°	23108.0	20754.9	18388.5	16015.9	13605.2	10997.7	8092.5	4919.6	2918.9	2216.8	1964.5
27.5°	27518.6	24129.4	21400.7	18663.7	16015.9	13358.5	10464.7	7289.8	3858.4	2614.9	2107.0
25°	33234.0	28459.3	24582.0	21400.7	18388.5	15495.8	12624.9	9412.0	5939.2	3074.3	2239.9
22.5°	40012.0	33994.7	28459.3	24129.4	20754.9	17571.4	14493.5	11359.0	7864.7	4090.9	2592.7
20°	46564.7	40012.0	33234.0	27518.6	23108.0	19500.6	16236.6	13024.0	9525.9	5732.2	2952.8
17.5°	52676.2	45704.8	38405.0	30984.2	25673.0	21477.9	17864.1	14472.0	11024.5	7209.3	3276.3
15°	58379.5	50881.8	43169.3	35297.9	28259.8	23257.6	19311.8	15757.4	12309.8	8467.8	4350.7
12.5°	64079.2	55464.5	47385.4	39081.6	30804.1	25061.5	20692.7	16911.7	13331.2	9519.6	5382.6
10°	69194.8	59623.1	50947.3	42339.3	33720.4	26798.0	21880.4	17872.9	14179.8	10392.0	6237.0
7.5°	74012.0	63216.0	53802.6	44943.1	36041.4	28175.4	22819.9	18631.5	14848.3	11078.0	6908.1
5°	77590.9	65864.8	55895.5	46843.3	37729.2	29174.3	23499.7	19179.5	15330.4	11572.3	7391.1
2.5°	79799.3	67489.8	57174.0	48000.4	38754.5	29779.9	23911.2	19510.7	15621.6	11870.5	7682.3
0°	80546.3	68037.7	57604.1	48389.0	39098.4	29982.8	24049.0	19621.6	15719.0	11970.2	7779.6
-2.5°	79799.3	67489.8	57174.0	48000.4	38754.5	29779.9	23911.2	19510.7	15621.6	11870.5	7682.3
-5°	77590.9	65864.8	55895.5	46843.3	37729.2	29174.3	23499.7	19179.5	15330.4	11572.3	7391.1
-7.5°	74012.0	63216.0	53802.6	44943.1	36041.4	28175.4	22819.9	18631.5	14848.3	11078.0	6908.1
-10°	69194.8	59623.1	50947.3	42339.3	33720.4	26798.0	21880.4	17872.9	14179.8	10392.0	6237.0
-12.5°	64079.2	55464.5	47385.4	39081.6	30804.1	25061.5	20692.7	16911.7	13331.2	9519.6	5382.6
-15°	58379.5	50881.8	43169.3	35297.9	28259.8	23257.6	19311.8	15757.4	12309.8	8467.8	4350.7
-17.5°	52676.2	45704.8	38405.0	30984.2	25673.0	21477.9	17864.1	14472.0	11024.5	7209.3	3276.3
-20°	46564.7	40012.0	33234.0	27518.6	23108.0	19500.6	16236.6	13024.0	9525.9	5732.2	2952.8



REPORT NUMBER: P731238 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-5S-HEG

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	40012.0	33994.7	28459.3	24129.4	20754.9	17571.4	14493.5	11359.0	7864.7	4090.9	2592.7
-25°	33234.0	28459.3	24582.0	21400.7	18388.5	15495.8	12624.9	9412.0	5939.2	3074.3	2239.9
-27.5°	27518.6	24129.4	21400.7	18663.7	16015.9	13358.5	10464.7	7289.8	3858.4	2614.9	2107.0
-30°	23108.0	20754.9	18388.5	16015.9	13605.2	10997.7	8092.5	4919.6	2918.9	2216.8	1964.5
-32.5°	19500.6	17571.4	15495.8	13358.5	10997.7	8352.1	5456.2	3103.8	2363.1	2054.9	1885.1
-35°	16236.6	14493.5	12624.9	10464.7	8092.5	5456.2	3165.9	2484.0	2109.9	1912.6	1823.6
-37.5°	13024.0	11359.0	9412.0	7289.8	4919.6	3103.8	2484.0	2128.3	1926.5	1843.9	1704.2
-40°	9525.9	7864.7	5939.2	3858.4	2918.9	2363.1	2109.9	1926.5	1850.7	1734.0	1553.8
-42.5°	5732.2	4090.9	3074.3	2614.9	2216.8	2054.9	1912.6	1843.9	1734.0	1568.5	1378.2
-45°	2952.8	2592.7	2239.9	2107.0	1964.5	1885.1	1823.6	1704.2	1553.8	1378.2	1191.3
-47.5°	2181.1	2077.6	1963.8	1895.6	1844.5	1773.5	1644.9	1508.2	1344.7	1176.7	1021.8
-50°	1912.9	1876.0	1835.5	1776.4	1670.4	1557.2	1424.3	1278.2	1133.2	993.1	855.1
-52.5°	1791.4	1715.4	1631.8	1540.7	1430.2	1308.6	1181.1	1061.5	936.2	818.5	701.2
-55°	1533.0	1454.2	1365.0	1267.8	1166.3	1067.5	962.5	858.5	758.0	653.1	563.5
-57.5°	1234.0	1163.8	1091.8	1013.3	928.5	846.3	762.8	674.5	594.4	515.0	435.2
-60°	962.5	903.2	846.3	784.4	717.4	646.6	584.0	517.8	448.1	389.3	328.3
-62.5°	723.1	676.6	630.0	584.0	534.2	480.8	428.3	379.9	329.0	277.3	236.5
-65°	520.1	486.0	448.1	414.6	378.6	340.0	298.7	262.2	228.4	193.0	158.6
-67.5°	352.8	328.3	301.3	274.4	250.9	225.5	198.5	169.8	149.9	133.2	115.7
-70°	221.6	205.8	188.3	169.1	154.5	142.8	130.2	116.9	102.8	91.1	80.4
-72.5°	133.9	126.7	118.7	109.9	100.4	92.6	85.1	77.1	68.6	59.7	52.1
-75°	81.9	77.6	72.9	67.8	62.2	56.2	51.8	48.0	44.0	39.8	35.5
-77.5°	46.9	45.0	42.9	40.5	37.9	35.2	32.2	29.7	28.3	26.7	25.1
-80°	27.6	26.9	26.2	25.4	24.5	23.5	22.5	21.4	20.2	19.2	18.3
-82.5°	18.2	17.9	17.5	17.0	16.6	16.1	15.5	14.9	14.3	13.7	13.0
-85°	11.4	11.2	11.0	10.7	10.5	10.2	9.9	9.6	9.2	8.9	8.5
-87.5°	5.6	5.5	5.4	5.3	5.2	5.1	4.9	4.8	4.6	4.4	4.2
-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: P731238 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-5S-HEG

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	3.9	3.7	3.4	3.2	3.0	2.8	2.5	2.3	2.1	1.8
85°	8.1	7.7	7.3	6.9	6.4	6.0	5.5	5.1	4.6	4.1	3.6
82.5°	12.3	11.6	11.0	10.4	9.7	9.0	8.3	7.6	6.9	6.1	5.4
80°	17.3	16.3	15.3	14.2	13.2	12.1	11.1	10.2	9.2	8.2	7.2
77.5°	23.5	21.7	19.9	18.5	17.1	15.7	14.3	12.8	11.5	10.3	9.0
75°	30.9	28.4	26.2	24.0	21.7	19.4	17.7	15.9	14.2	12.3	10.8
72.5°	46.8	41.2	35.5	29.9	27.2	24.5	21.6	19.0	16.9	14.8	12.7
70°	69.3	57.8	49.6	42.9	35.9	29.5	26.3	23.0	19.7	17.3	14.8
67.5°	97.7	84.7	71.3	57.4	48.2	40.1	31.9	27.3	23.5	19.7	16.9
65°	138.3	117.3	96.4	81.0	65.2	51.4	42.3	33.0	27.3	23.0	19.0
62.5°	194.1	155.5	131.6	107.1	86.9	69.1	52.5	42.3	31.9	26.3	21.6
60°	269.6	221.6	172.1	140.2	112.8	88.9	69.1	51.4	40.1	29.5	24.5
57.5°	366.4	295.4	238.2	183.1	143.1	112.8	86.9	65.2	48.2	35.9	27.2
55°	470.9	389.5	310.7	243.8	183.1	140.2	107.1	81.0	57.4	42.9	29.9
52.5°	592.8	490.3	397.2	310.7	238.2	172.1	131.6	96.4	71.3	49.6	35.5
50°	725.3	602.6	490.3	389.5	295.4	221.6	155.5	117.3	84.7	57.8	41.2
47.5°	867.4	725.3	592.8	470.9	366.4	269.6	194.1	138.3	97.7	69.3	46.8
45°	1021.8	855.1	701.2	563.5	435.2	328.3	236.5	158.6	115.7	80.4	52.1
42.5°	1176.7	993.1	818.5	653.1	515.0	389.3	277.3	193.0	133.2	91.1	59.7
40°	1344.7	1133.2	936.2	758.0	594.4	448.1	329.0	228.4	149.9	102.8	68.6
37.5°	1508.2	1278.2	1061.5	858.5	674.5	517.8	379.9	262.2	169.8	116.9	77.1
35°	1644.9	1424.3	1181.1	962.5	762.8	584.0	428.3	298.7	198.5	130.2	85.1
32.5°	1773.5	1557.2	1308.6	1067.5	846.3	646.6	480.8	340.0	225.5	142.8	92.6
30°	1844.5	1670.4	1430.2	1166.3	928.5	717.4	534.2	378.6	250.9	154.5	100.4
27.5°	1895.6	1776.4	1540.7	1267.8	1013.3	784.4	584.0	414.6	274.4	169.1	109.9
25°	1963.8	1835.5	1631.8	1365.0	1091.8	846.3	630.0	448.1	301.3	188.3	118.7
22.5°	2077.6	1876.0	1715.4	1454.2	1163.8	903.2	676.6	486.0	328.3	205.8	126.7
20°	2181.1	1912.9	1791.4	1533.0	1234.0	962.5	723.1	520.1	352.8	221.6	133.9
17.5°	2307.5	1970.9	1828.4	1595.2	1299.9	1015.3	764.4	550.5	374.4	235.6	140.2
15°	2570.0	2046.0	1855.0	1649.7	1357.6	1061.5	800.5	577.0	393.4	247.8	145.8
12.5°	2794.9	2110.3	1877.7	1696.3	1406.8	1100.9	831.2	599.6	409.5	258.2	150.6
10°	2980.8	2163.4	1896.5	1734.6	1447.3	1133.2	856.5	618.2	422.7	266.7	154.4
7.5°	3126.8	2205.0	1911.2	1764.7	1479.0	1158.6	876.3	632.7	433.1	273.4	157.5
5°	3231.7	2234.9	1921.7	1786.2	1501.8	1176.7	890.4	643.1	440.5	278.2	159.7
2.5°	3294.9	2252.9	1928.1	1799.2	1515.4	1187.7	899.0	649.3	444.9	281.0	161.0
0°	3316.0	2258.9	1930.2	1803.5	1520.0	1191.3	901.8	651.4	446.4	282.0	161.4
-2.5°	3294.9	2252.9	1928.1	1799.2	1515.4	1187.7	899.0	649.3	444.9	281.0	161.0
-5°	3231.7	2234.9	1921.7	1786.2	1501.8	1176.7	890.4	643.1	440.5	278.2	159.7
-7.5°	3126.8	2205.0	1911.2	1764.7	1479.0	1158.6	876.3	632.7	433.1	273.4	157.5
-10°	2980.8	2163.4	1896.5	1734.6	1447.3	1133.2	856.5	618.2	422.7	266.7	154.4
-12.5°	2794.9	2110.3	1877.7	1696.3	1406.8	1100.9	831.2	599.6	409.5	258.2	150.6
-15°	2570.0	2046.0	1855.0	1649.7	1357.6	1061.5	800.5	577.0	393.4	247.8	145.8
-17.5°	2307.5	1970.9	1828.4	1595.2	1299.9	1015.3	764.4	550.5	374.4	235.6	140.2
-20°	2181.1	1912.9	1791.4	1533.0	1234.0	962.5	723.1	520.1	352.8	221.6	133.9



REPORT NUMBER: P731238 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-5S-HEG

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2077.6	1876.0	1715.4	1454.2	1163.8	903.2	676.6	486.0	328.3	205.8	126.7
-25°	1963.8	1835.5	1631.8	1365.0	1091.8	846.3	630.0	448.1	301.3	188.3	118.7
-27.5°	1895.6	1776.4	1540.7	1267.8	1013.3	784.4	584.0	414.6	274.4	169.1	109.9
-30°	1844.5	1670.4	1430.2	1166.3	928.5	717.4	534.2	378.6	250.9	154.5	100.4
-32.5°	1773.5	1557.2	1308.6	1067.5	846.3	646.6	480.8	340.0	225.5	142.8	92.6
-35°	1644.9	1424.3	1181.1	962.5	762.8	584.0	428.3	298.7	198.5	130.2	85.1
-37.5°	1508.2	1278.2	1061.5	858.5	674.5	517.8	379.9	262.2	169.8	116.9	77.1
-40°	1344.7	1133.2	936.2	758.0	594.4	448.1	329.0	228.4	149.9	102.8	68.6
-42.5°	1176.7	993.1	818.5	653.1	515.0	389.3	277.3	193.0	133.2	91.1	59.7
-45°	1021.8	855.1	701.2	563.5	435.2	328.3	236.5	158.6	115.7	80.4	52.1
-47.5°	867.4	725.3	592.8	470.9	366.4	269.6	194.1	138.3	97.7	69.3	46.8
-50°	725.3	602.6	490.3	389.5	295.4	221.6	155.5	117.3	84.7	57.8	41.2
-52.5°	592.8	490.3	397.2	310.7	238.2	172.1	131.6	96.4	71.3	49.6	35.5
-55°	470.9	389.5	310.7	243.8	183.1	140.2	107.1	81.0	57.4	42.9	29.9
-57.5°	366.4	295.4	238.2	183.1	143.1	112.8	86.9	65.2	48.2	35.9	27.2
-60°	269.6	221.6	172.1	140.2	112.8	88.9	69.1	51.4	40.1	29.5	24.5
-62.5°	194.1	155.5	131.6	107.1	86.9	69.1	52.5	42.3	31.9	26.3	21.6
-65°	138.3	117.3	96.4	81.0	65.2	51.4	42.3	33.0	27.3	23.0	19.0
-67.5°	97.7	84.7	71.3	57.4	48.2	40.1	31.9	27.3	23.5	19.7	16.9
-70°	69.3	57.8	49.6	42.9	35.9	29.5	26.3	23.0	19.7	17.3	14.8
-72.5°	46.8	41.2	35.5	29.9	27.2	24.5	21.6	19.0	16.9	14.8	12.7
-75°	30.9	28.4	26.2	24.0	21.7	19.4	17.7	15.9	14.2	12.3	10.8
-77.5°	23.5	21.7	19.9	18.5	17.1	15.7	14.3	12.8	11.5	10.3	9.0
-80°	17.3	16.3	15.3	14.2	13.2	12.1	11.1	10.2	9.2	8.2	7.2
-82.5°	12.3	11.6	11.0	10.4	9.7	9.0	8.3	7.6	6.9	6.1	5.4
-85°	8.1	7.7	7.3	6.9	6.4	6.0	5.5	5.1	4.6	4.1	3.6
-87.5°	4.1	3.9	3.7	3.4	3.2	3.0	2.8	2.5	2.3	2.1	1.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731238 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-5S-HEG

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	1.3	1.0	0.8	0.5	0.3	0.0
85°	3.1	2.6	2.1	1.6	1.0	0.5	0.0
82.5°	4.6	3.9	3.1	2.3	1.6	0.8	0.0
80°	6.2	5.2	4.1	3.1	2.1	1.0	0.0
77.5°	7.7	6.5	5.2	3.9	2.6	1.3	0.0
75°	9.3	7.7	6.2	4.6	3.1	1.6	0.0
72.5°	10.8	9.0	7.2	5.4	3.6	1.8	0.0
70°	12.3	10.3	8.2	6.1	4.1	2.1	0.0
67.5°	14.2	11.5	9.2	6.9	4.6	2.3	0.0
65°	15.9	12.8	10.2	7.6	5.1	2.5	0.0
62.5°	17.7	14.3	11.1	8.3	5.5	2.8	0.0
60°	19.4	15.7	12.1	9.0	6.0	3.0	0.0
57.5°	21.7	17.1	13.2	9.7	6.4	3.2	0.0
55°	24.0	18.5	14.2	10.4	6.9	3.4	0.0
52.5°	26.2	19.9	15.3	11.0	7.3	3.7	0.0
50°	28.4	21.7	16.3	11.6	7.7	3.9	0.0
47.5°	30.9	23.5	17.3	12.3	8.1	4.1	0.0
45°	35.5	25.1	18.3	13.0	8.5	4.2	0.0
42.5°	39.8	26.7	19.2	13.7	8.9	4.4	0.0
40°	44.0	28.3	20.2	14.3	9.2	4.6	0.0
37.5°	48.0	29.7	21.4	14.9	9.6	4.8	0.0
35°	51.8	32.2	22.5	15.5	9.9	4.9	0.0
32.5°	56.2	35.2	23.5	16.1	10.2	5.1	0.0
30°	62.2	37.9	24.5	16.6	10.5	5.2	0.0
27.5°	67.8	40.5	25.4	17.0	10.7	5.3	0.0
25°	72.9	42.9	26.2	17.5	11.0	5.4	0.0
22.5°	77.6	45.0	26.9	17.9	11.2	5.5	0.0
20°	81.9	46.9	27.6	18.2	11.4	5.6	0.0
17.5°	85.6	48.6	28.2	18.6	11.5	5.7	0.0
15°	88.9	50.1	28.7	18.8	11.7	5.8	0.0
12.5°	91.6	51.4	29.2	19.1	11.8	5.9	0.0
10°	93.9	52.4	29.5	19.3	11.9	5.9	0.0
7.5°	95.7	53.3	29.8	19.4	12.0	5.9	0.0
5°	97.0	53.8	30.0	19.5	12.1	6.0	0.0
2.5°	97.7	54.2	30.2	19.6	12.1	6.0	0.0
0°	98.0	54.3	30.2	19.6	12.1	6.0	0.0
-2.5°	97.7	54.2	30.2	19.6	12.1	6.0	0.0
-5°	97.0	53.8	30.0	19.5	12.1	6.0	0.0
-7.5°	95.7	53.3	29.8	19.4	12.0	5.9	0.0
-10°	93.9	52.4	29.5	19.3	11.9	5.9	0.0
-12.5°	91.6	51.4	29.2	19.1	11.8	5.9	0.0
-15°	88.9	50.1	28.7	18.8	11.7	5.8	0.0
-17.5°	85.6	48.6	28.2	18.6	11.5	5.7	0.0
-20°	81.9	46.9	27.6	18.2	11.4	5.6	0.0



REPORT NUMBER: P731238 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-5S-HEG

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	77.6	45.0	26.9	17.9	11.2	5.5	0.0
-25°	72.9	42.9	26.2	17.5	11.0	5.4	0.0
-27.5°	67.8	40.5	25.4	17.0	10.7	5.3	0.0
-30°	62.2	37.9	24.5	16.6	10.5	5.2	0.0
-32.5°	56.2	35.2	23.5	16.1	10.2	5.1	0.0
-35°	51.8	32.2	22.5	15.5	9.9	4.9	0.0
-37.5°	48.0	29.7	21.4	14.9	9.6	4.8	0.0
-40°	44.0	28.3	20.2	14.3	9.2	4.6	0.0
-42.5°	39.8	26.7	19.2	13.7	8.9	4.4	0.0
-45°	35.5	25.1	18.3	13.0	8.5	4.2	0.0
-47.5°	30.9	23.5	17.3	12.3	8.1	4.1	0.0
-50°	28.4	21.7	16.3	11.6	7.7	3.9	0.0
-52.5°	26.2	19.9	15.3	11.0	7.3	3.7	0.0
-55°	24.0	18.5	14.2	10.4	6.9	3.4	0.0
-57.5°	21.7	17.1	13.2	9.7	6.4	3.2	0.0
-60°	19.4	15.7	12.1	9.0	6.0	3.0	0.0
-62.5°	17.7	14.3	11.1	8.3	5.5	2.8	0.0
-65°	15.9	12.8	10.2	7.6	5.1	2.5	0.0
-67.5°	14.2	11.5	9.2	6.9	4.6	2.3	0.0
-70°	12.3	10.3	8.2	6.1	4.1	2.1	0.0
-72.5°	10.8	9.0	7.2	5.4	3.6	1.8	0.0
-75°	9.3	7.7	6.2	4.6	3.1	1.6	0.0
-77.5°	7.7	6.5	5.2	3.9	2.6	1.3	0.0
-80°	6.2	5.2	4.1	3.1	2.1	1.0	0.0
-82.5°	4.6	3.9	3.1	2.3	1.6	0.8	0.0
-85°	3.1	2.6	2.1	1.6	1.0	0.5	0.0
-87.5°	1.6	1.3	1.0	0.8	0.5	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

