

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: P731198 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-70-1S-HEG**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731198 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-61)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320N-40-70-1S-HEG  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 70 CRI LEDS AND 1S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

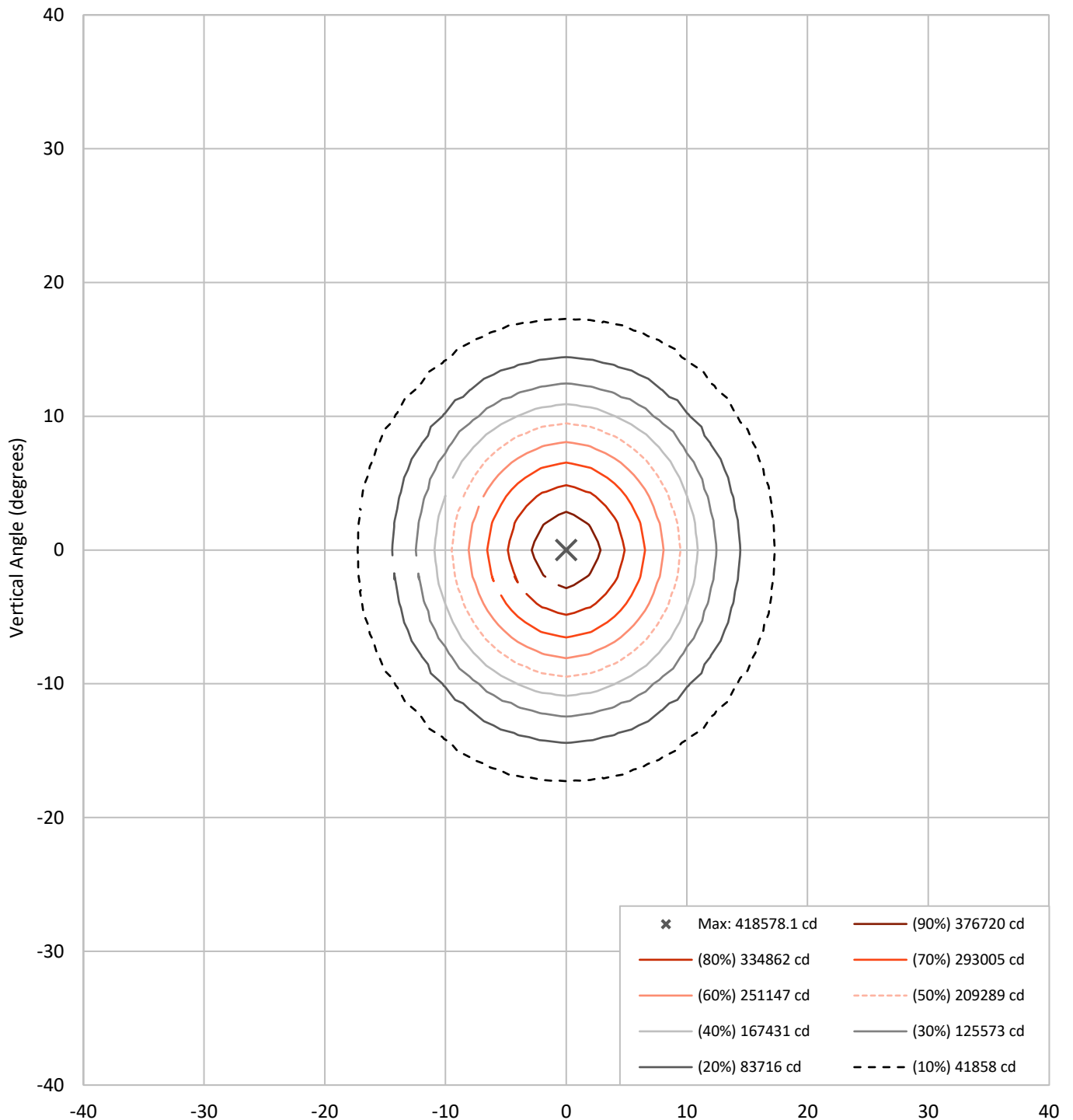
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	56702.9 lumens	Max Intensity:	418578.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	165.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	19°H x 19°V	Field Angle (10%):	34.3°H x 34.3°V
Beam Lumens:	24439.7 lumens	Field Lumens:	45023.2 lumens
Beam Efficiency:	43.1%	Field Efficiency:	79.4%

Input Watts (W): 343.2  
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

REPORT NUMBER: P731198 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-HEG

### Iso-Candela Plot





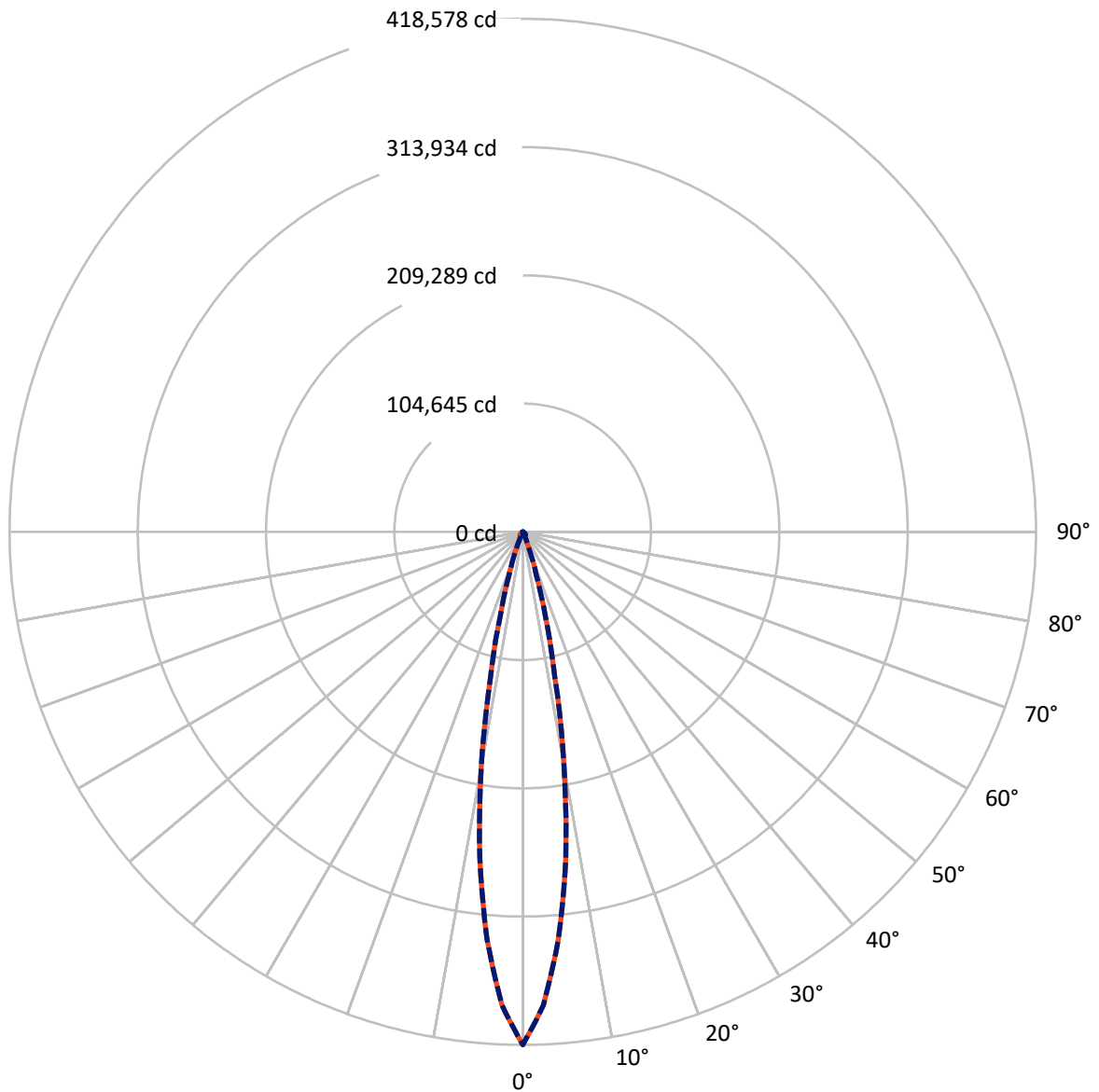
REPORT NUMBER: P731198 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-HEG

### Lumen Table

90	0.1		0.5		2.0		4.9		6.5		4.9		2.0		0.5		0.1
80	0.1		0.5		2.0		4.9		6.5		4.9		2.0		0.5		0.1
70	0.2	0.3	1.2	3.5	7.1	11.1	14.3	16.1	16.1	14.3	11.1	7.1	3.5	1.2	0.3	0.2	
60		0.9	4.2	10.3	17.7	23.9	27.9	30.1	30.1	27.9	23.9	17.7	10.3	4.2	0.9		
50	0.7	2.2	8.4	17.5	25.6	43.3	68.2	82.0	82.0	68.2	43.3	25.6	17.5	8.4	2.2	0.7	
40		3.8	12.5	22.1	52.3	89.5	98.9	99.1	99.1	98.9	89.5	52.3	22.1	12.5	3.8		
30	1.4	5.3	15.2	34.2	81.0	89.7	98.5	170.9	170.9	98.5	89.7	81.0	34.2	15.2	5.3	1.4	
20		6.5	16.7	50.7	83.8	92.6	541.5	2022.0	2022.0	541.5	92.6	83.8	50.7	16.7	6.5		
10	1.8	7.1	17.5	58.8	81.3	157.2	1973.0	7764.4	7764.4	1973.0	157.2	81.3	58.8	17.5	7.1	1.8	
0		7.1	17.5	58.8	81.3	157.2	1973.0	7764.4	7764.4	1973.0	157.2	81.3	58.8	17.5	7.1		
-10	1.4	6.5	16.7	50.7	83.8	92.6	541.5	2022.0	2022.0	541.5	92.6	83.8	50.7	16.7	6.5	1.4	
-20		5.3	15.2	34.2	81.0	89.7	98.5	170.9	170.9	98.5	89.7	81.0	34.2	15.2	5.3		
-30	0.7	3.8	12.5	22.1	52.3	89.5	98.9	99.1	99.1	98.9	89.5	52.3	22.1	12.5	3.8	0.7	
-40		2.2	8.4	17.5	25.6	43.3	68.2	82.0	82.0	68.2	43.3	25.6	17.5	8.4	2.2		
-50	0.2	0.9	4.2	10.3	17.7	23.9	27.9	30.1	30.1	27.9	23.9	17.7	10.3	4.2	0.9	0.2	
-60		0.3	1.2	3.5	7.1	11.1	14.3	16.1	16.1	14.3	11.1	7.1	3.5	1.2	0.3		
-70	0.1	0.5		2.0		4.9		6.5		4.9		2.0		0.5		0.1	
-80		0.5		2.0		4.9		6.5		4.9		2.0		0.5			
-90	0.1		0.5		2.0		4.9		6.5		4.9		2.0		0.5		0.1

REPORT NUMBER: P731198 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-HEG

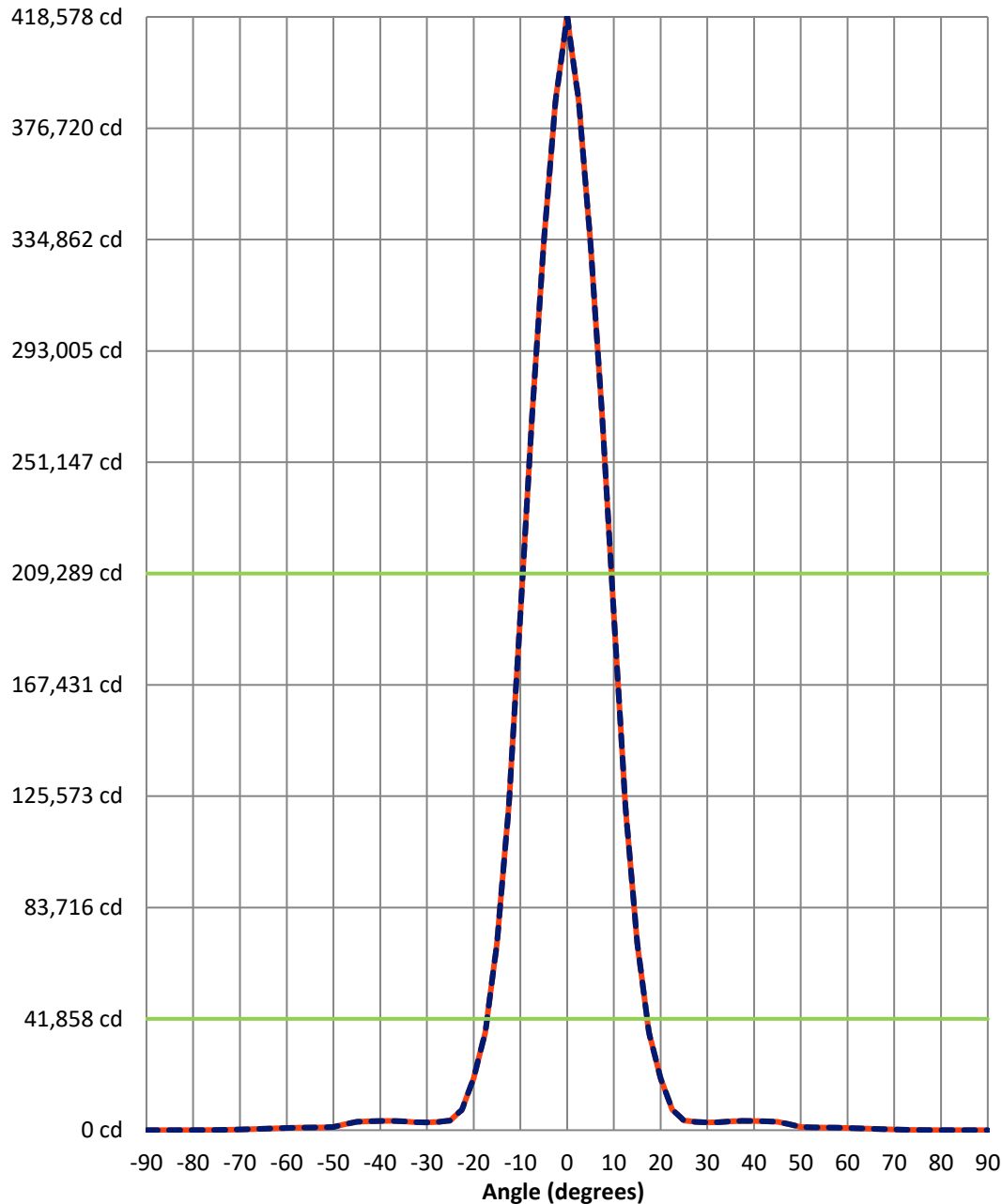
### Luminous Intensity Polar Plot



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

REPORT NUMBER: P731198 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-HEG

### Luminous Intensity Plot



**Beam:**  
 H Angle: 19°  
 V Angle: 19°  
 Lumens: 24439.7  
 Efficiency: 43.1%

**Field:**  
 H Angle: 34.3°  
 V Angle: 34.3°  
 Lumens: 45023.2  
 Efficiency: 79.4%

**Spill:**  
 Lumens: 11679.7  
 Efficiency: 20.6%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-Deg



REPORT NUMBER: P731198 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-HEG

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	0.3	0.5	0.7	0.9	1.0	1.2	1.4	1.5	1.7
85°	0.0	0.3	0.7	1.0	1.4	1.7	2.1	2.4	2.7	3.1	3.4
82.5°	0.0	0.5	1.0	1.6	2.1	2.6	3.1	3.6	4.1	4.4	4.8
80°	0.0	0.7	1.4	2.1	2.8	3.4	4.1	4.6	5.1	5.6	6.1
77.5°	0.0	0.9	1.7	2.6	3.4	4.2	4.9	5.5	6.1	6.7	7.6
75°	0.0	1.0	2.1	3.1	4.1	4.9	5.6	6.4	7.2	8.6	10.1
72.5°	0.0	1.2	2.4	3.6	4.6	5.5	6.4	7.5	9.2	10.9	12.5
70°	0.0	1.4	2.7	4.1	5.1	6.1	7.2	9.2	11.1	13.1	15.3
67.5°	0.0	1.5	3.1	4.4	5.6	6.7	8.6	10.9	13.1	15.6	18.1
65°	0.0	1.7	3.4	4.8	6.1	7.6	10.1	12.5	15.3	18.1	21.4
62.5°	0.0	1.8	3.7	5.1	6.5	8.8	11.5	14.3	17.4	20.9	26.1
60°	0.0	2.0	4.0	5.5	7.0	9.9	12.8	16.2	19.6	25.0	30.6
57.5°	0.0	2.1	4.2	5.8	7.8	11.0	14.4	18.0	22.9	29.0	42.1
55°	0.0	2.3	4.4	6.2	8.7	12.1	15.9	19.8	26.4	35.0	56.6
52.5°	0.0	2.4	4.6	6.5	9.6	13.2	17.4	22.7	29.8	47.7	70.7
50°	0.0	2.6	4.9	6.8	10.4	14.4	18.8	25.5	35.3	60.0	97.3
47.5°	0.0	2.7	5.1	7.1	11.2	15.5	20.3	28.3	45.9	71.9	124.5
45°	0.0	2.8	5.2	7.7	11.9	16.6	22.6	31.0	56.1	95.2	150.7
42.5°	0.0	2.9	5.4	8.3	12.7	17.7	24.8	37.1	65.9	117.8	183.5
40°	0.0	3.1	5.6	8.8	13.4	18.7	26.9	45.2	78.4	139.5	216.2
37.5°	0.0	3.2	5.8	9.3	14.2	19.7	28.9	53.0	96.7	162.1	247.4
35°	0.0	3.3	5.9	9.7	14.9	21.0	30.8	60.3	114.0	188.6	278.0
32.5°	0.0	3.4	6.1	10.2	15.6	22.5	33.8	67.3	130.3	213.5	308.7
30°	0.0	3.5	6.2	10.6	16.2	23.9	39.4	75.3	145.5	236.9	337.5
27.5°	0.0	3.5	6.3	11.0	16.8	25.2	44.5	87.6	161.5	258.6	364.2
25°	0.0	3.6	6.4	11.3	17.4	26.4	49.2	99.0	179.2	280.0	389.1
22.5°	0.0	3.7	6.5	11.6	17.8	27.4	53.5	109.4	195.3	300.1	416.3
20°	0.0	3.8	6.6	11.9	18.3	28.4	57.4	118.7	209.9	318.2	440.9
17.5°	0.0	3.8	6.7	12.2	18.7	29.3	60.8	127.0	222.8	334.4	462.7
15°	0.0	3.9	6.8	12.4	19.0	30.0	63.8	134.2	234.1	348.5	481.8
12.5°	0.0	3.9	6.9	12.6	19.3	30.6	66.4	140.3	243.6	360.4	498.1
10°	0.0	3.9	6.9	12.7	19.6	31.2	68.5	145.4	251.5	370.3	511.4
7.5°	0.0	4.0	6.9	12.8	19.8	31.6	70.1	149.3	257.7	378.0	521.8
5°	0.0	4.0	7.0	12.9	19.9	31.9	71.3	152.1	262.1	383.5	529.3
2.5°	0.0	4.0	7.0	13.0	20.0	32.0	72.0	153.8	264.7	386.8	533.8
0°	0.0	4.0	7.0	13.0	20.0	32.1	72.2	154.4	265.6	387.9	535.3
-2.5°	0.0	4.0	7.0	13.0	20.0	32.0	72.0	153.8	264.7	386.8	533.8
-5°	0.0	4.0	7.0	12.9	19.9	31.9	71.3	152.1	262.1	383.5	529.3
-7.5°	0.0	4.0	6.9	12.8	19.8	31.6	70.1	149.3	257.7	378.0	521.8
-10°	0.0	3.9	6.9	12.7	19.6	31.2	68.5	145.4	251.5	370.3	511.4
-12.5°	0.0	3.9	6.9	12.6	19.3	30.6	66.4	140.3	243.6	360.4	498.1
-15°	0.0	3.9	6.8	12.4	19.0	30.0	63.8	134.2	234.1	348.5	481.8
-17.5°	0.0	3.8	6.7	12.2	18.7	29.3	60.8	127.0	222.8	334.4	462.7
-20°	0.0	3.8	6.6	11.9	18.3	28.4	57.4	118.7	209.9	318.2	440.9



REPORT NUMBER: P731198 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	3.7	6.5	11.6	17.8	27.4	53.5	109.4	195.3	300.1	416.3
-25°	0.0	3.6	6.4	11.3	17.4	26.4	49.2	99.0	179.2	280.0	389.1
-27.5°	0.0	3.5	6.3	11.0	16.8	25.2	44.5	87.6	161.5	258.6	364.2
-30°	0.0	3.5	6.2	10.6	16.2	23.9	39.4	75.3	145.5	236.9	337.5
-32.5°	0.0	3.4	6.1	10.2	15.6	22.5	33.8	67.3	130.3	213.5	308.7
-35°	0.0	3.3	5.9	9.7	14.9	21.0	30.8	60.3	114.0	188.6	278.0
-37.5°	0.0	3.2	5.8	9.3	14.2	19.7	28.9	53.0	96.7	162.1	247.4
-40°	0.0	3.1	5.6	8.8	13.4	18.7	26.9	45.2	78.4	139.5	216.2
-42.5°	0.0	2.9	5.4	8.3	12.7	17.7	24.8	37.1	65.9	117.8	183.5
-45°	0.0	2.8	5.2	7.7	11.9	16.6	22.6	31.0	56.1	95.2	150.7
-47.5°	0.0	2.7	5.1	7.1	11.2	15.5	20.3	28.3	45.9	71.9	124.5
-50°	0.0	2.6	4.9	6.8	10.4	14.4	18.8	25.5	35.3	60.0	97.3
-52.5°	0.0	2.4	4.6	6.5	9.6	13.2	17.4	22.7	29.8	47.7	70.7
-55°	0.0	2.3	4.4	6.2	8.7	12.1	15.9	19.8	26.4	35.0	56.6
-57.5°	0.0	2.1	4.2	5.8	7.8	11.0	14.4	18.0	22.9	29.0	42.1
-60°	0.0	2.0	4.0	5.5	7.0	9.9	12.8	16.2	19.6	25.0	30.6
-62.5°	0.0	1.8	3.7	5.1	6.5	8.8	11.5	14.3	17.4	20.9	26.1
-65°	0.0	1.7	3.4	4.8	6.1	7.6	10.1	12.5	15.3	18.1	21.4
-67.5°	0.0	1.5	3.1	4.4	5.6	6.7	8.6	10.9	13.1	15.6	18.1
-70°	0.0	1.4	2.7	4.1	5.1	6.1	7.2	9.2	11.1	13.1	15.3
-72.5°	0.0	1.2	2.4	3.6	4.6	5.5	6.4	7.5	9.2	10.9	12.5
-75°	0.0	1.0	2.1	3.1	4.1	4.9	5.6	6.4	7.2	8.6	10.1
-77.5°	0.0	0.9	1.7	2.6	3.4	4.2	4.9	5.5	6.1	6.7	7.6
-80°	0.0	0.7	1.4	2.1	2.8	3.4	4.1	4.6	5.1	5.6	6.1
-82.5°	0.0	0.5	1.0	1.6	2.1	2.6	3.1	3.6	4.1	4.4	4.8
-85°	0.0	0.3	0.7	1.0	1.4	1.7	2.1	2.4	2.7	3.1	3.4
-87.5°	0.0	0.2	0.3	0.5	0.7	0.9	1.0	1.2	1.4	1.5	1.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





REPORT NUMBER: P731198 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-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°	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.8	2.9	3.1	3.2
85°	3.7	4.0	4.2	4.4	4.6	4.9	5.1	5.2	5.4	5.6	5.8
82.5°	5.1	5.5	5.8	6.2	6.5	6.8	7.1	7.7	8.3	8.8	9.3
80°	6.5	7.0	7.8	8.7	9.6	10.4	11.2	11.9	12.7	13.4	14.2
77.5°	8.8	9.9	11.0	12.1	13.2	14.4	15.5	16.6	17.7	18.7	19.7
75°	11.5	12.8	14.4	15.9	17.4	18.8	20.3	22.6	24.8	26.9	28.9
72.5°	14.3	16.2	18.0	19.8	22.7	25.5	28.3	31.0	37.1	45.2	53.0
70°	17.4	19.6	22.9	26.4	29.8	35.3	45.9	56.1	65.9	78.4	96.7
67.5°	20.9	25.0	29.0	35.0	47.7	60.0	71.9	95.2	117.8	139.5	162.1
65°	26.1	30.6	42.1	56.6	70.7	97.3	124.5	150.7	183.5	216.2	247.4
62.5°	31.2	45.7	62.0	84.0	115.8	146.7	184.5	223.6	261.3	300.6	338.5
60°	45.7	63.8	91.4	127.0	164.2	209.9	254.2	300.1	345.4	389.1	439.2
57.5°	62.0	91.4	130.7	174.4	225.2	275.6	328.4	379.5	437.3	494.3	549.4
55°	84.0	127.0	174.4	230.3	287.0	345.6	405.5	472.1	536.3	600.2	661.3
52.5°	115.8	164.2	225.2	287.0	351.3	419.5	493.1	565.6	636.9	704.4	765.6
50°	146.7	209.9	275.6	345.6	419.5	500.2	580.3	659.2	732.2	800.6	861.6
47.5°	184.5	254.2	328.4	405.5	493.1	580.3	666.7	746.2	821.9	886.5	947.8
45°	223.6	300.1	379.5	472.1	565.6	659.2	746.2	829.0	899.1	957.0	978.2
42.5°	261.3	345.4	437.3	536.3	636.9	732.2	821.9	899.1	959.1	982.5	1009.6
40°	300.6	389.1	494.3	600.2	704.4	800.6	886.5	957.0	982.5	1012.5	1044.9
37.5°	338.5	439.2	549.4	661.3	765.6	861.6	947.8	978.2	1009.6	1044.9	1141.9
35°	374.4	486.8	603.1	717.3	824.0	916.3	969.9	1000.9	1039.0	1133.0	1429.3
32.5°	412.6	531.9	653.9	768.5	873.0	957.5	988.1	1027.2	1106.6	1308.7	2047.6
30°	451.0	575.4	700.6	816.8	918.5	973.5	1009.8	1063.0	1184.5	1863.1	2580.2
27.5°	486.8	616.2	742.1	857.7	955.1	988.5	1031.7	1131.6	1559.9	2367.8	3054.4
25°	519.9	653.9	780.4	894.1	968.0	1006.0	1062.7	1195.7	2018.2	2784.2	3225.0
22.5°	550.7	688.3	815.5	927.5	979.8	1023.3	1117.5	1537.8	2414.3	3156.2	3311.7
20°	578.9	717.3	845.0	954.0	990.6	1039.1	1167.4	1897.0	2742.7	3230.1	3370.4
17.5°	604.0	743.1	869.7	962.8	1003.0	1066.1	1253.2	2219.7	3038.3	3296.8	3413.8
15°	626.0	765.6	891.3	970.6	1014.3	1102.3	1515.1	2466.3	3183.0	3349.1	3451.4
12.5°	644.7	784.8	909.8	977.1	1024.1	1133.2	1739.5	2672.8	3229.8	3379.6	3461.8
10°	660.1	800.6	925.0	982.6	1032.1	1158.8	1925.0	2843.8	3268.7	3405.0	3470.5
7.5°	672.1	813.0	936.8	986.8	1038.4	1178.8	2070.5	2978.0	3299.2	3425.0	3477.3
5°	680.7	821.9	945.4	989.9	1042.9	1193.2	2175.2	3074.7	3321.2	3439.5	3482.2
2.5°	685.9	827.2	950.5	991.7	1045.6	1201.9	2238.2	3132.9	3334.5	3448.2	3485.2
0°	687.6	829.0	952.2	992.3	1046.5	1204.8	2259.3	3152.4	3338.9	3451.1	3486.2
-2.5°	685.9	827.2	950.5	991.7	1045.6	1201.9	2238.2	3132.9	3334.5	3448.2	3485.2
-5°	680.7	821.9	945.4	989.9	1042.9	1193.2	2175.2	3074.7	3321.2	3439.5	3482.2
-7.5°	672.1	813.0	936.8	986.8	1038.4	1178.8	2070.5	2978.0	3299.2	3425.0	3477.3
-10°	660.1	800.6	925.0	982.6	1032.1	1158.8	1925.0	2843.8	3268.7	3405.0	3470.5
-12.5°	644.7	784.8	909.8	977.1	1024.1	1133.2	1739.5	2672.8	3229.8	3379.6	3461.8
-15°	626.0	765.6	891.3	970.6	1014.3	1102.3	1515.1	2466.3	3183.0	3349.1	3451.4
-17.5°	604.0	743.1	869.7	962.8	1003.0	1066.1	1253.2	2219.7	3038.3	3296.8	3413.8
-20°	578.9	717.3	845.0	954.0	990.6	1039.1	1167.4	1897.0	2742.7	3230.1	3370.4



REPORT NUMBER: P731198 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	550.7	688.3	815.5	927.5	979.8	1023.3	1117.5	1537.8	2414.3	3156.2	3311.7
-25°	519.9	653.9	780.4	894.1	968.0	1006.0	1062.7	1195.7	2018.2	2784.2	3225.0
-27.5°	486.8	616.2	742.1	857.7	955.1	988.5	1031.7	1131.6	1559.9	2367.8	3054.4
-30°	451.0	575.4	700.6	816.8	918.5	973.5	1009.8	1063.0	1184.5	1863.1	2580.2
-32.5°	412.6	531.9	653.9	768.5	873.0	957.5	988.1	1027.2	1106.6	1308.7	2047.6
-35°	374.4	486.8	603.1	717.3	824.0	916.3	969.9	1000.9	1039.0	1133.0	1429.3
-37.5°	338.5	439.2	549.4	661.3	765.6	861.6	947.8	978.2	1009.6	1044.9	1141.9
-40°	300.6	389.1	494.3	600.2	704.4	800.6	886.5	957.0	982.5	1012.5	1044.9
-42.5°	261.3	345.4	437.3	536.3	636.9	732.2	821.9	899.1	959.1	982.5	1009.6
-45°	223.6	300.1	379.5	472.1	565.6	659.2	746.2	829.0	899.1	957.0	978.2
-47.5°	184.5	254.2	328.4	405.5	493.1	580.3	666.7	746.2	821.9	886.5	947.8
-50°	146.7	209.9	275.6	345.6	419.5	500.2	580.3	659.2	732.2	800.6	861.6
-52.5°	115.8	164.2	225.2	287.0	351.3	419.5	493.1	565.6	636.9	704.4	765.6
-55°	84.0	127.0	174.4	230.3	287.0	345.6	405.5	472.1	536.3	600.2	661.3
-57.5°	62.0	91.4	130.7	174.4	225.2	275.6	328.4	379.5	437.3	494.3	549.4
-60°	45.7	63.8	91.4	127.0	164.2	209.9	254.2	300.1	345.4	389.1	439.2
-62.5°	31.2	45.7	62.0	84.0	115.8	146.7	184.5	223.6	261.3	300.6	338.5
-65°	26.1	30.6	42.1	56.6	70.7	97.3	124.5	150.7	183.5	216.2	247.4
-67.5°	20.9	25.0	29.0	35.0	47.7	60.0	71.9	95.2	117.8	139.5	162.1
-70°	17.4	19.6	22.9	26.4	29.8	35.3	45.9	56.1	65.9	78.4	96.7
-72.5°	14.3	16.2	18.0	19.8	22.7	25.5	28.3	31.0	37.1	45.2	53.0
-75°	11.5	12.8	14.4	15.9	17.4	18.8	20.3	22.6	24.8	26.9	28.9
-77.5°	8.8	9.9	11.0	12.1	13.2	14.4	15.5	16.6	17.7	18.7	19.7
-80°	6.5	7.0	7.8	8.7	9.6	10.4	11.2	11.9	12.7	13.4	14.2
-82.5°	5.1	5.5	5.8	6.2	6.5	6.8	7.1	7.7	8.3	8.8	9.3
-85°	3.7	4.0	4.2	4.4	4.6	4.9	5.1	5.2	5.4	5.6	5.8
-87.5°	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.8	2.9	3.1	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: P731198 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	3.4	3.5	3.5	3.6	3.7	3.8	3.8	3.9	3.9	3.9
85°	5.9	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	6.9
82.5°	9.7	10.2	10.6	11.0	11.3	11.6	11.9	12.2	12.4	12.6	12.7
80°	14.9	15.6	16.2	16.8	17.4	17.8	18.3	18.7	19.0	19.3	19.6
77.5°	21.0	22.5	23.9	25.2	26.4	27.4	28.4	29.3	30.0	30.6	31.2
75°	30.8	33.8	39.4	44.5	49.2	53.5	57.4	60.8	63.8	66.4	68.5
72.5°	60.3	67.3	75.3	87.6	99.0	109.4	118.7	127.0	134.2	140.3	145.4
70°	114.0	130.3	145.5	161.5	179.2	195.3	209.9	222.8	234.1	243.6	251.5
67.5°	188.6	213.5	236.9	258.6	280.0	300.1	318.2	334.4	348.5	360.4	370.3
65°	278.0	308.7	337.5	364.2	389.1	416.3	440.9	462.7	481.8	498.1	511.4
62.5°	374.4	412.6	451.0	486.8	519.9	550.7	578.9	604.0	626.0	644.7	660.1
60°	486.8	531.9	575.4	616.2	653.9	688.3	717.3	743.1	765.6	784.8	800.6
57.5°	603.1	653.9	700.6	742.1	780.4	815.5	845.0	869.7	891.3	909.8	925.0
55°	717.3	768.5	816.8	857.7	894.1	927.5	954.0	962.8	970.6	977.1	982.6
52.5°	824.0	873.0	918.5	955.1	968.0	979.8	990.6	1003.0	1014.3	1024.1	1032.1
50°	916.3	957.5	973.5	988.5	1006.0	1023.3	1039.1	1066.1	1102.3	1133.2	1158.8
47.5°	969.9	988.1	1009.8	1031.7	1062.7	1117.5	1167.4	1253.2	1515.1	1739.5	1925.0
45°	1000.9	1027.2	1063.0	1131.6	1195.7	1537.8	1897.0	2219.7	2466.3	2672.8	2843.8
42.5°	1039.0	1106.6	1184.5	1559.9	2018.2	2414.3	2742.7	3038.3	3183.0	3229.8	3268.7
40°	1133.0	1308.7	1863.1	2367.8	2784.2	3156.2	3230.1	3296.8	3349.1	3379.6	3405.0
37.5°	1429.3	2047.6	2580.2	3054.4	3225.0	3311.7	3370.4	3413.8	3451.4	3461.8	3470.5
35°	2109.6	2687.5	3166.3	3271.9	3358.5	3414.4	3455.8	3470.4	3483.4	3446.2	3401.8
32.5°	2687.5	3177.9	3295.6	3380.5	3444.4	3467.8	3485.1	3416.9	3350.4	3266.4	3173.2
30°	3166.3	3295.6	3387.8	3453.8	3475.1	3443.9	3356.0	3233.6	3094.6	2994.8	2968.8
27.5°	3271.9	3380.5	3453.8	3477.6	3419.7	3316.5	3134.5	2993.2	2954.8	2921.0	2990.1
25°	3358.5	3444.4	3475.1	3419.7	3292.2	3083.9	2973.1	2927.1	3007.8	3097.9	3266.2
22.5°	3414.4	3467.8	3443.9	3316.5	3083.9	2966.4	2940.4	3062.0	3262.5	3525.7	4439.8
20°	3455.8	3485.1	3356.0	3134.5	2973.1	2940.4	3080.3	3365.5	3952.4	6186.0	8829.0
17.5°	3470.4	3416.9	3233.6	2993.2	2927.1	3062.0	3365.5	4379.4	7091.3	12970.6	19173.1
15°	3483.4	3350.4	3094.6	2954.8	3007.8	3262.5	3952.4	7091.3	14391.2	23472.7	33669.8
12.5°	3446.2	3266.4	2994.8	2921.0	3097.9	3525.7	6186.0	12970.6	23472.7	36146.5	57613.8
10°	3401.8	3173.2	2968.8	2990.1	3266.2	4439.8	8829.0	19173.1	33669.8	57613.8	86759.5
7.5°	3366.7	3099.2	2948.1	3045.7	3430.2	5847.7	13374.4	26527.4	47211.4	78740.5	121823.7
5°	3341.3	3045.5	2933.1	3086.3	3550.5	6885.7	16751.4	32178.5	59827.3	100065.4	157532.1
2.5°	3325.9	3013.0	2924.0	3111.0	3623.9	7522.5	18835.2	35694.3	67770.6	115440.4	184246.7
0°	3320.8	3002.1	2920.9	3119.3	3648.6	7737.2	19540.0	36888.8	70487.9	121274.4	193789.1
-2.5°	3325.9	3013.0	2924.0	3111.0	3623.9	7522.5	18835.2	35694.3	67770.6	115440.4	184246.7
-5°	3341.3	3045.5	2933.1	3086.3	3550.5	6885.7	16751.4	32178.5	59827.3	100065.4	157532.1
-7.5°	3366.7	3099.2	2948.1	3045.7	3430.2	5847.7	13374.4	26527.4	47211.4	78740.5	121823.7
-10°	3401.8	3173.2	2968.8	2990.1	3266.2	4439.8	8829.0	19173.1	33669.8	57613.8	86759.5
-12.5°	3446.2	3266.4	2994.8	2921.0	3097.9	3525.7	6186.0	12970.6	23472.7	36146.5	57613.8
-15°	3483.4	3350.4	3094.6	2954.8	3007.8	3262.5	3952.4	7091.3	14391.2	23472.7	33669.8
-17.5°	3470.4	3416.9	3233.6	2993.2	2927.1	3062.0	3365.5	4379.4	7091.3	12970.6	19173.1
-20°	3455.8	3485.1	3356.0	3134.5	2973.1	2940.4	3080.3	3365.5	3952.4	6186.0	8829.0



REPORT NUMBER: P731198 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3414.4	3467.8	3443.9	3316.5	3083.9	2966.4	2940.4	3062.0	3262.5	3525.7	4439.8
-25°	3358.5	3444.4	3475.1	3419.7	3292.2	3083.9	2973.1	2927.1	3007.8	3097.9	3266.2
-27.5°	3271.9	3380.5	3453.8	3477.6	3419.7	3316.5	3134.5	2993.2	2954.8	2921.0	2990.1
-30°	3166.3	3295.6	3387.8	3453.8	3475.1	3443.9	3356.0	3233.6	3094.6	2994.8	2968.8
-32.5°	2687.5	3177.9	3295.6	3380.5	3444.4	3467.8	3485.1	3416.9	3350.4	3266.4	3173.2
-35°	2109.6	2687.5	3166.3	3271.9	3358.5	3414.4	3455.8	3470.4	3483.4	3446.2	3401.8
-37.5°	1429.3	2047.6	2580.2	3054.4	3225.0	3311.7	3370.4	3413.8	3451.4	3461.8	3470.5
-40°	1133.0	1308.7	1863.1	2367.8	2784.2	3156.2	3230.1	3296.8	3349.1	3379.6	3405.0
-42.5°	1039.0	1106.6	1184.5	1559.9	2018.2	2414.3	2742.7	3038.3	3183.0	3229.8	3268.7
-45°	1000.9	1027.2	1063.0	1131.6	1195.7	1537.8	1897.0	2219.7	2466.3	2672.8	2843.8
-47.5°	969.9	988.1	1009.8	1031.7	1062.7	1117.5	1167.4	1253.2	1515.1	1739.5	1925.0
-50°	916.3	957.5	973.5	988.5	1006.0	1023.3	1039.1	1066.1	1102.3	1133.2	1158.8
-52.5°	824.0	873.0	918.5	955.1	968.0	979.8	990.6	1003.0	1014.3	1024.1	1032.1
-55°	717.3	768.5	816.8	857.7	894.1	927.5	954.0	962.8	970.6	977.1	982.6
-57.5°	603.1	653.9	700.6	742.1	780.4	815.5	845.0	869.7	891.3	909.8	925.0
-60°	486.8	531.9	575.4	616.2	653.9	688.3	717.3	743.1	765.6	784.8	800.6
-62.5°	374.4	412.6	451.0	486.8	519.9	550.7	578.9	604.0	626.0	644.7	660.1
-65°	278.0	308.7	337.5	364.2	389.1	416.3	440.9	462.7	481.8	498.1	511.4
-67.5°	188.6	213.5	236.9	258.6	280.0	300.1	318.2	334.4	348.5	360.4	370.3
-70°	114.0	130.3	145.5	161.5	179.2	195.3	209.9	222.8	234.1	243.6	251.5
-72.5°	60.3	67.3	75.3	87.6	99.0	109.4	118.7	127.0	134.2	140.3	145.4
-75°	30.8	33.8	39.4	44.5	49.2	53.5	57.4	60.8	63.8	66.4	68.5
-77.5°	21.0	22.5	23.9	25.2	26.4	27.4	28.4	29.3	30.0	30.6	31.2
-80°	14.9	15.6	16.2	16.8	17.4	17.8	18.3	18.7	19.0	19.3	19.6
-82.5°	9.7	10.2	10.6	11.0	11.3	11.6	11.9	12.2	12.4	12.6	12.7
-85°	5.9	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	6.9
-87.5°	3.3	3.4	3.5	3.5	3.6	3.7	3.8	3.8	3.9	3.9	3.9
-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: P731198 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.8
85°	6.9	7.0	7.0	7.0	7.0	7.0	6.9	6.9	6.9	6.8	6.7
82.5°	12.8	12.9	13.0	13.0	13.0	12.9	12.8	12.7	12.6	12.4	12.2
80°	19.8	19.9	20.0	20.0	20.0	19.9	19.8	19.6	19.3	19.0	18.7
77.5°	31.6	31.9	32.0	32.1	32.0	31.9	31.6	31.2	30.6	30.0	29.3
75°	70.1	71.3	72.0	72.2	72.0	71.3	70.1	68.5	66.4	63.8	60.8
72.5°	149.3	152.1	153.8	154.4	153.8	152.1	149.3	145.4	140.3	134.2	127.0
70°	257.7	262.1	264.7	265.6	264.7	262.1	257.7	251.5	243.6	234.1	222.8
67.5°	378.0	383.5	386.8	387.9	386.8	383.5	378.0	370.3	360.4	348.5	334.4
65°	521.8	529.3	533.8	535.3	533.8	529.3	521.8	511.4	498.1	481.8	462.7
62.5°	672.1	680.7	685.9	687.6	685.9	680.7	672.1	660.1	644.7	626.0	604.0
60°	813.0	821.9	827.2	829.0	827.2	821.9	813.0	800.6	784.8	765.6	743.1
57.5°	936.8	945.4	950.5	952.2	950.5	945.4	936.8	925.0	909.8	891.3	869.7
55°	986.8	989.9	991.7	992.3	991.7	989.9	986.8	982.6	977.1	970.6	962.8
52.5°	1038.4	1042.9	1045.6	1046.5	1045.6	1042.9	1038.4	1032.1	1024.1	1014.3	1003.0
50°	1178.8	1193.2	1201.9	1204.8	1201.9	1193.2	1178.8	1158.8	1133.2	1102.3	1066.1
47.5°	2070.5	2175.2	2238.2	2259.3	2238.2	2175.2	2070.5	1925.0	1739.5	1515.1	1253.2
45°	2978.0	3074.7	3132.9	3152.4	3132.9	3074.7	2978.0	2843.8	2672.8	2466.3	2219.7
42.5°	3299.2	3321.2	3334.5	3338.9	3334.5	3321.2	3299.2	3268.7	3229.8	3183.0	3038.3
40°	3425.0	3439.5	3448.2	3451.1	3448.2	3439.5	3425.0	3405.0	3379.6	3349.1	3296.8
37.5°	3477.3	3482.2	3485.2	3486.2	3485.2	3482.2	3477.3	3470.5	3461.8	3451.4	3413.8
35°	3366.7	3341.3	3325.9	3320.8	3325.9	3341.3	3366.7	3401.8	3446.2	3483.4	3470.4
32.5°	3099.2	3045.5	3013.0	3002.1	3013.0	3045.5	3099.2	3173.2	3266.4	3350.4	3416.9
30°	2948.1	2933.1	2924.0	2920.9	2924.0	2933.1	2948.1	2968.8	2994.8	3094.6	3233.6
27.5°	3045.7	3086.3	3111.0	3119.3	3111.0	3086.3	3045.7	2990.1	2921.0	2954.8	2993.2
25°	3430.2	3550.5	3623.9	3648.6	3623.9	3550.5	3430.2	3266.2	3097.9	3007.8	2927.1
22.5°	5847.7	6885.7	7522.5	7737.2	7522.5	6885.7	5847.7	4439.8	3525.7	3262.5	3062.0
20°	13374.4	16751.4	18835.2	19540.0	18835.2	16751.4	13374.4	8829.0	6186.0	3952.4	3365.5
17.5°	26527.4	32178.5	35694.3	36888.8	35694.3	32178.5	26527.4	19173.1	12970.6	7091.3	4379.4
15°	47211.4	59827.3	67770.6	70487.9	67770.6	59827.3	47211.4	33669.8	23472.7	14391.2	7091.3
12.5°	78740.5	100065.4	115440.4	121274.4	115440.4	100065.4	78740.5	57613.8	36146.5	23472.7	12970.6
10°	121823.7	157532.1	184246.7	193789.1	184246.7	157532.1	121823.7	86759.5	57613.8	33669.8	19173.1
7.5°	175266.3	223259.8	256982.6	268464.3	256982.6	223259.8	175266.3	121823.7	78740.5	47211.4	26527.4
5°	223259.8	280799.6	319285.9	333523.0	319285.9	280799.6	223259.8	157532.1	100065.4	59827.3	32178.5
2.5°	256982.6	319285.9	364952.8	386606.4	364952.8	319285.9	256982.6	184246.7	115440.4	67770.6	35694.3
0°	268464.3	333523.0	386606.4	418578.1	386606.4	333523.0	268464.3	193789.1	121274.4	70487.9	36888.8
-2.5°	256982.6	319285.9	364952.8	386606.4	364952.8	319285.9	256982.6	184246.7	115440.4	67770.6	35694.3
-5°	223259.8	280799.6	319285.9	333523.0	319285.9	280799.6	223259.8	157532.1	100065.4	59827.3	32178.5
-7.5°	175266.3	223259.8	256982.6	268464.3	256982.6	223259.8	175266.3	121823.7	78740.5	47211.4	26527.4
-10°	121823.7	157532.1	184246.7	193789.1	184246.7	157532.1	121823.7	86759.5	57613.8	33669.8	19173.1
-12.5°	78740.5	100065.4	115440.4	121274.4	115440.4	100065.4	78740.5	57613.8	36146.5	23472.7	12970.6
-15°	47211.4	59827.3	67770.6	70487.9	67770.6	59827.3	47211.4	33669.8	23472.7	14391.2	7091.3
-17.5°	26527.4	32178.5	35694.3	36888.8	35694.3	32178.5	26527.4	19173.1	12970.6	7091.3	4379.4
-20°	13374.4	16751.4	18835.2	19540.0	18835.2	16751.4	13374.4	8829.0	6186.0	3952.4	3365.5



REPORT NUMBER: P731198 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	5847.7	6885.7	7522.5	7737.2	7522.5	6885.7	5847.7	4439.8	3525.7	3262.5	3062.0
-25°	3430.2	3550.5	3623.9	3648.6	3623.9	3550.5	3430.2	3266.2	3097.9	3007.8	2927.1
-27.5°	3045.7	3086.3	3111.0	3119.3	3111.0	3086.3	3045.7	2990.1	2921.0	2954.8	2993.2
-30°	2948.1	2933.1	2924.0	2920.9	2924.0	2933.1	2948.1	2968.8	2994.8	3094.6	3233.6
-32.5°	3099.2	3045.5	3013.0	3002.1	3013.0	3045.5	3099.2	3173.2	3266.4	3350.4	3416.9
-35°	3366.7	3341.3	3325.9	3320.8	3325.9	3341.3	3366.7	3401.8	3446.2	3483.4	3470.4
-37.5°	3477.3	3482.2	3485.2	3486.2	3485.2	3482.2	3477.3	3470.5	3461.8	3451.4	3413.8
-40°	3425.0	3439.5	3448.2	3451.1	3448.2	3439.5	3425.0	3405.0	3379.6	3349.1	3296.8
-42.5°	3299.2	3321.2	3334.5	3338.9	3334.5	3321.2	3299.2	3268.7	3229.8	3183.0	3038.3
-45°	2978.0	3074.7	3132.9	3152.4	3132.9	3074.7	2978.0	2843.8	2672.8	2466.3	2219.7
-47.5°	2070.5	2175.2	2238.2	2259.3	2238.2	2175.2	2070.5	1925.0	1739.5	1515.1	1253.2
-50°	1178.8	1193.2	1201.9	1204.8	1201.9	1193.2	1178.8	1158.8	1133.2	1102.3	1066.1
-52.5°	1038.4	1042.9	1045.6	1046.5	1045.6	1042.9	1038.4	1032.1	1024.1	1014.3	1003.0
-55°	986.8	989.9	991.7	992.3	991.7	989.9	986.8	982.6	977.1	970.6	962.8
-57.5°	936.8	945.4	950.5	952.2	950.5	945.4	936.8	925.0	909.8	891.3	869.7
-60°	813.0	821.9	827.2	829.0	827.2	821.9	813.0	800.6	784.8	765.6	743.1
-62.5°	672.1	680.7	685.9	687.6	685.9	680.7	672.1	660.1	644.7	626.0	604.0
-65°	521.8	529.3	533.8	535.3	533.8	529.3	521.8	511.4	498.1	481.8	462.7
-67.5°	378.0	383.5	386.8	387.9	386.8	383.5	378.0	370.3	360.4	348.5	334.4
-70°	257.7	262.1	264.7	265.6	264.7	262.1	257.7	251.5	243.6	234.1	222.8
-72.5°	149.3	152.1	153.8	154.4	153.8	152.1	149.3	145.4	140.3	134.2	127.0
-75°	70.1	71.3	72.0	72.2	72.0	71.3	70.1	68.5	66.4	63.8	60.8
-77.5°	31.6	31.9	32.0	32.1	32.0	31.9	31.6	31.2	30.6	30.0	29.3
-80°	19.8	19.9	20.0	20.0	20.0	19.9	19.8	19.6	19.3	19.0	18.7
-82.5°	12.8	12.9	13.0	13.0	13.0	12.9	12.8	12.7	12.6	12.4	12.2
-85°	6.9	7.0	7.0	7.0	7.0	7.0	6.9	6.9	6.9	6.8	6.7
-87.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	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



REPORT NUMBER: P731198 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	3.7	3.6	3.5	3.5	3.4	3.3	3.2	3.1	2.9	2.8
85°	6.6	6.5	6.4	6.3	6.2	6.1	5.9	5.8	5.6	5.4	5.2
82.5°	11.9	11.6	11.3	11.0	10.6	10.2	9.7	9.3	8.8	8.3	7.7
80°	18.3	17.8	17.4	16.8	16.2	15.6	14.9	14.2	13.4	12.7	11.9
77.5°	28.4	27.4	26.4	25.2	23.9	22.5	21.0	19.7	18.7	17.7	16.6
75°	57.4	53.5	49.2	44.5	39.4	33.8	30.8	28.9	26.9	24.8	22.6
72.5°	118.7	109.4	99.0	87.6	75.3	67.3	60.3	53.0	45.2	37.1	31.0
70°	209.9	195.3	179.2	161.5	145.5	130.3	114.0	96.7	78.4	65.9	56.1
67.5°	318.2	300.1	280.0	258.6	236.9	213.5	188.6	162.1	139.5	117.8	95.2
65°	440.9	416.3	389.1	364.2	337.5	308.7	278.0	247.4	216.2	183.5	150.7
62.5°	578.9	550.7	519.9	486.8	451.0	412.6	374.4	338.5	300.6	261.3	223.6
60°	717.3	688.3	653.9	616.2	575.4	531.9	486.8	439.2	389.1	345.4	300.1
57.5°	845.0	815.5	780.4	742.1	700.6	653.9	603.1	549.4	494.3	437.3	379.5
55°	954.0	927.5	894.1	857.7	816.8	768.5	717.3	661.3	600.2	536.3	472.1
52.5°	990.6	979.8	968.0	955.1	918.5	873.0	824.0	765.6	704.4	636.9	565.6
50°	1039.1	1023.3	1006.0	988.5	973.5	957.5	916.3	861.6	800.6	732.2	659.2
47.5°	1167.4	1117.5	1062.7	1031.7	1009.8	988.1	969.9	947.8	886.5	821.9	746.2
45°	1897.0	1537.8	1195.7	1131.6	1063.0	1027.2	1000.9	978.2	957.0	899.1	829.0
42.5°	2742.7	2414.3	2018.2	1559.9	1184.5	1106.6	1039.0	1009.6	982.5	959.1	899.1
40°	3230.1	3156.2	2784.2	2367.8	1863.1	1308.7	1133.0	1044.9	1012.5	982.5	957.0
37.5°	3370.4	3311.7	3225.0	3054.4	2580.2	2047.6	1429.3	1141.9	1044.9	1009.6	978.2
35°	3455.8	3414.4	3358.5	3271.9	3166.3	2687.5	2109.6	1429.3	1133.0	1039.0	1000.9
32.5°	3485.1	3467.8	3444.4	3380.5	3295.6	3177.9	2687.5	2047.6	1308.7	1106.6	1027.2
30°	3356.0	3443.9	3475.1	3453.8	3387.8	3295.6	3166.3	2580.2	1863.1	1184.5	1063.0
27.5°	3134.5	3316.5	3419.7	3477.6	3453.8	3380.5	3271.9	3054.4	2367.8	1559.9	1131.6
25°	2973.1	3083.9	3292.2	3419.7	3475.1	3444.4	3358.5	3225.0	2784.2	2018.2	1195.7
22.5°	2940.4	2966.4	3083.9	3316.5	3443.9	3467.8	3414.4	3311.7	3156.2	2414.3	1537.8
20°	3080.3	2940.4	2973.1	3134.5	3356.0	3485.1	3455.8	3370.4	3230.1	2742.7	1897.0
17.5°	3365.5	3062.0	2927.1	2993.2	3233.6	3416.9	3470.4	3413.8	3296.8	3038.3	2219.7
15°	3952.4	3262.5	3007.8	2954.8	3094.6	3350.4	3483.4	3451.4	3349.1	3183.0	2466.3
12.5°	6186.0	3525.7	3097.9	2921.0	2994.8	3266.4	3446.2	3461.8	3379.6	3229.8	2672.8
10°	8829.0	4439.8	3266.2	2990.1	2968.8	3173.2	3401.8	3470.5	3405.0	3268.7	2843.8
7.5°	13374.4	5847.7	3430.2	3045.7	2948.1	3099.2	3366.7	3477.3	3425.0	3299.2	2978.0
5°	16751.4	6885.7	3550.5	3086.3	2933.1	3045.5	3341.3	3482.2	3439.5	3321.2	3074.7
2.5°	18835.2	7522.5	3623.9	3111.0	2924.0	3013.0	3325.9	3485.2	3448.2	3334.5	3132.9
0°	19540.0	7737.2	3648.6	3119.3	2920.9	3002.1	3320.8	3486.2	3451.1	3338.9	3152.4
-2.5°	18835.2	7522.5	3623.9	3111.0	2924.0	3013.0	3325.9	3485.2	3448.2	3334.5	3132.9
-5°	16751.4	6885.7	3550.5	3086.3	2933.1	3045.5	3341.3	3482.2	3439.5	3321.2	3074.7
-7.5°	13374.4	5847.7	3430.2	3045.7	2948.1	3099.2	3366.7	3477.3	3425.0	3299.2	2978.0
-10°	8829.0	4439.8	3266.2	2990.1	2968.8	3173.2	3401.8	3470.5	3405.0	3268.7	2843.8
-12.5°	6186.0	3525.7	3097.9	2921.0	2994.8	3266.4	3446.2	3461.8	3379.6	3229.8	2672.8
-15°	3952.4	3262.5	3007.8	2954.8	3094.6	3350.4	3483.4	3451.4	3349.1	3183.0	2466.3
-17.5°	3365.5	3062.0	2927.1	2993.2	3233.6	3416.9	3470.4	3413.8	3296.8	3038.3	2219.7
-20°	3080.3	2940.4	2973.1	3134.5	3356.0	3485.1	3455.8	3370.4	3230.1	2742.7	1897.0





REPORT NUMBER: P731198 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	2940.4	2966.4	3083.9	3316.5	3443.9	3467.8	3414.4	3311.7	3156.2	2414.3	1537.8
-25°	2973.1	3083.9	3292.2	3419.7	3475.1	3444.4	3358.5	3225.0	2784.2	2018.2	1195.7
-27.5°	3134.5	3316.5	3419.7	3477.6	3453.8	3380.5	3271.9	3054.4	2367.8	1559.9	1131.6
-30°	3356.0	3443.9	3475.1	3453.8	3387.8	3295.6	3166.3	2580.2	1863.1	1184.5	1063.0
-32.5°	3485.1	3467.8	3444.4	3380.5	3295.6	3177.9	2687.5	2047.6	1308.7	1106.6	1027.2
-35°	3455.8	3414.4	3358.5	3271.9	3166.3	2687.5	2109.6	1429.3	1133.0	1039.0	1000.9
-37.5°	3370.4	3311.7	3225.0	3054.4	2580.2	2047.6	1429.3	1141.9	1044.9	1009.6	978.2
-40°	3230.1	3156.2	2784.2	2367.8	1863.1	1308.7	1133.0	1044.9	1012.5	982.5	957.0
-42.5°	2742.7	2414.3	2018.2	1559.9	1184.5	1106.6	1039.0	1009.6	982.5	959.1	899.1
-45°	1897.0	1537.8	1195.7	1131.6	1063.0	1027.2	1000.9	978.2	957.0	899.1	829.0
-47.5°	1167.4	1117.5	1062.7	1031.7	1009.8	988.1	969.9	947.8	886.5	821.9	746.2
-50°	1039.1	1023.3	1006.0	988.5	973.5	957.5	916.3	861.6	800.6	732.2	659.2
-52.5°	990.6	979.8	968.0	955.1	918.5	873.0	824.0	765.6	704.4	636.9	565.6
-55°	954.0	927.5	894.1	857.7	816.8	768.5	717.3	661.3	600.2	536.3	472.1
-57.5°	845.0	815.5	780.4	742.1	700.6	653.9	603.1	549.4	494.3	437.3	379.5
-60°	717.3	688.3	653.9	616.2	575.4	531.9	486.8	439.2	389.1	345.4	300.1
-62.5°	578.9	550.7	519.9	486.8	451.0	412.6	374.4	338.5	300.6	261.3	223.6
-65°	440.9	416.3	389.1	364.2	337.5	308.7	278.0	247.4	216.2	183.5	150.7
-67.5°	318.2	300.1	280.0	258.6	236.9	213.5	188.6	162.1	139.5	117.8	95.2
-70°	209.9	195.3	179.2	161.5	145.5	130.3	114.0	96.7	78.4	65.9	56.1
-72.5°	118.7	109.4	99.0	87.6	75.3	67.3	60.3	53.0	45.2	37.1	31.0
-75°	57.4	53.5	49.2	44.5	39.4	33.8	30.8	28.9	26.9	24.8	22.6
-77.5°	28.4	27.4	26.4	25.2	23.9	22.5	21.0	19.7	18.7	17.7	16.6
-80°	18.3	17.8	17.4	16.8	16.2	15.6	14.9	14.2	13.4	12.7	11.9
-82.5°	11.9	11.6	11.3	11.0	10.6	10.2	9.7	9.3	8.8	8.3	7.7
-85°	6.6	6.5	6.4	6.3	6.2	6.1	5.9	5.8	5.6	5.4	5.2
-87.5°	3.8	3.7	3.6	3.5	3.5	3.4	3.3	3.2	3.1	2.9	2.8
-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: P731198 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	2.6	2.4	2.3	2.1	2.0	1.8	1.7	1.5	1.4	1.2
85°	5.1	4.9	4.6	4.4	4.2	4.0	3.7	3.4	3.1	2.7	2.4
82.5°	7.1	6.8	6.5	6.2	5.8	5.5	5.1	4.8	4.4	4.1	3.6
80°	11.2	10.4	9.6	8.7	7.8	7.0	6.5	6.1	5.6	5.1	4.6
77.5°	15.5	14.4	13.2	12.1	11.0	9.9	8.8	7.6	6.7	6.1	5.5
75°	20.3	18.8	17.4	15.9	14.4	12.8	11.5	10.1	8.6	7.2	6.4
72.5°	28.3	25.5	22.7	19.8	18.0	16.2	14.3	12.5	10.9	9.2	7.5
70°	45.9	35.3	29.8	26.4	22.9	19.6	17.4	15.3	13.1	11.1	9.2
67.5°	71.9	60.0	47.7	35.0	29.0	25.0	20.9	18.1	15.6	13.1	10.9
65°	124.5	97.3	70.7	56.6	42.1	30.6	26.1	21.4	18.1	15.3	12.5
62.5°	184.5	146.7	115.8	84.0	62.0	45.7	31.2	26.1	20.9	17.4	14.3
60°	254.2	209.9	164.2	127.0	91.4	63.8	45.7	30.6	25.0	19.6	16.2
57.5°	328.4	275.6	225.2	174.4	130.7	91.4	62.0	42.1	29.0	22.9	18.0
55°	405.5	345.6	287.0	230.3	174.4	127.0	84.0	56.6	35.0	26.4	19.8
52.5°	493.1	419.5	351.3	287.0	225.2	164.2	115.8	70.7	47.7	29.8	22.7
50°	580.3	500.2	419.5	345.6	275.6	209.9	146.7	97.3	60.0	35.3	25.5
47.5°	666.7	580.3	493.1	405.5	328.4	254.2	184.5	124.5	71.9	45.9	28.3
45°	746.2	659.2	565.6	472.1	379.5	300.1	223.6	150.7	95.2	56.1	31.0
42.5°	821.9	732.2	636.9	536.3	437.3	345.4	261.3	183.5	117.8	65.9	37.1
40°	886.5	800.6	704.4	600.2	494.3	389.1	300.6	216.2	139.5	78.4	45.2
37.5°	947.8	861.6	765.6	661.3	549.4	439.2	338.5	247.4	162.1	96.7	53.0
35°	969.9	916.3	824.0	717.3	603.1	486.8	374.4	278.0	188.6	114.0	60.3
32.5°	988.1	957.5	873.0	768.5	653.9	531.9	412.6	308.7	213.5	130.3	67.3
30°	1009.8	973.5	918.5	816.8	700.6	575.4	451.0	337.5	236.9	145.5	75.3
27.5°	1031.7	988.5	955.1	857.7	742.1	616.2	486.8	364.2	258.6	161.5	87.6
25°	1062.7	1006.0	968.0	894.1	780.4	653.9	519.9	389.1	280.0	179.2	99.0
22.5°	1117.5	1023.3	979.8	927.5	815.5	688.3	550.7	416.3	300.1	195.3	109.4
20°	1167.4	1039.1	990.6	954.0	845.0	717.3	578.9	440.9	318.2	209.9	118.7
17.5°	1253.2	1066.1	1003.0	962.8	869.7	743.1	604.0	462.7	334.4	222.8	127.0
15°	1515.1	1102.3	1014.3	970.6	891.3	765.6	626.0	481.8	348.5	234.1	134.2
12.5°	1739.5	1133.2	1024.1	977.1	909.8	784.8	644.7	498.1	360.4	243.6	140.3
10°	1925.0	1158.8	1032.1	982.6	925.0	800.6	660.1	511.4	370.3	251.5	145.4
7.5°	2070.5	1178.8	1038.4	986.8	936.8	813.0	672.1	521.8	378.0	257.7	149.3
5°	2175.2	1193.2	1042.9	989.9	945.4	821.9	680.7	529.3	383.5	262.1	152.1
2.5°	2238.2	1201.9	1045.6	991.7	950.5	827.2	685.9	533.8	386.8	264.7	153.8
0°	2259.3	1204.8	1046.5	992.3	952.2	829.0	687.6	535.3	387.9	265.6	154.4
-2.5°	2238.2	1201.9	1045.6	991.7	950.5	827.2	685.9	533.8	386.8	264.7	153.8
-5°	2175.2	1193.2	1042.9	989.9	945.4	821.9	680.7	529.3	383.5	262.1	152.1
-7.5°	2070.5	1178.8	1038.4	986.8	936.8	813.0	672.1	521.8	378.0	257.7	149.3
-10°	1925.0	1158.8	1032.1	982.6	925.0	800.6	660.1	511.4	370.3	251.5	145.4
-12.5°	1739.5	1133.2	1024.1	977.1	909.8	784.8	644.7	498.1	360.4	243.6	140.3
-15°	1515.1	1102.3	1014.3	970.6	891.3	765.6	626.0	481.8	348.5	234.1	134.2
-17.5°	1253.2	1066.1	1003.0	962.8	869.7	743.1	604.0	462.7	334.4	222.8	127.0
-20°	1167.4	1039.1	990.6	954.0	845.0	717.3	578.9	440.9	318.2	209.9	118.7



REPORT NUMBER: P731198 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1117.5	1023.3	979.8	927.5	815.5	688.3	550.7	416.3	300.1	195.3	109.4
-25°	1062.7	1006.0	968.0	894.1	780.4	653.9	519.9	389.1	280.0	179.2	99.0
-27.5°	1031.7	988.5	955.1	857.7	742.1	616.2	486.8	364.2	258.6	161.5	87.6
-30°	1009.8	973.5	918.5	816.8	700.6	575.4	451.0	337.5	236.9	145.5	75.3
-32.5°	988.1	957.5	873.0	768.5	653.9	531.9	412.6	308.7	213.5	130.3	67.3
-35°	969.9	916.3	824.0	717.3	603.1	486.8	374.4	278.0	188.6	114.0	60.3
-37.5°	947.8	861.6	765.6	661.3	549.4	439.2	338.5	247.4	162.1	96.7	53.0
-40°	886.5	800.6	704.4	600.2	494.3	389.1	300.6	216.2	139.5	78.4	45.2
-42.5°	821.9	732.2	636.9	536.3	437.3	345.4	261.3	183.5	117.8	65.9	37.1
-45°	746.2	659.2	565.6	472.1	379.5	300.1	223.6	150.7	95.2	56.1	31.0
-47.5°	666.7	580.3	493.1	405.5	328.4	254.2	184.5	124.5	71.9	45.9	28.3
-50°	580.3	500.2	419.5	345.6	275.6	209.9	146.7	97.3	60.0	35.3	25.5
-52.5°	493.1	419.5	351.3	287.0	225.2	164.2	115.8	70.7	47.7	29.8	22.7
-55°	405.5	345.6	287.0	230.3	174.4	127.0	84.0	56.6	35.0	26.4	19.8
-57.5°	328.4	275.6	225.2	174.4	130.7	91.4	62.0	42.1	29.0	22.9	18.0
-60°	254.2	209.9	164.2	127.0	91.4	63.8	45.7	30.6	25.0	19.6	16.2
-62.5°	184.5	146.7	115.8	84.0	62.0	45.7	31.2	26.1	20.9	17.4	14.3
-65°	124.5	97.3	70.7	56.6	42.1	30.6	26.1	21.4	18.1	15.3	12.5
-67.5°	71.9	60.0	47.7	35.0	29.0	25.0	20.9	18.1	15.6	13.1	10.9
-70°	45.9	35.3	29.8	26.4	22.9	19.6	17.4	15.3	13.1	11.1	9.2
-72.5°	28.3	25.5	22.7	19.8	18.0	16.2	14.3	12.5	10.9	9.2	7.5
-75°	20.3	18.8	17.4	15.9	14.4	12.8	11.5	10.1	8.6	7.2	6.4
-77.5°	15.5	14.4	13.2	12.1	11.0	9.9	8.8	7.6	6.7	6.1	5.5
-80°	11.2	10.4	9.6	8.7	7.8	7.0	6.5	6.1	5.6	5.1	4.6
-82.5°	7.1	6.8	6.5	6.2	5.8	5.5	5.1	4.8	4.4	4.1	3.6
-85°	5.1	4.9	4.6	4.4	4.2	4.0	3.7	3.4	3.1	2.7	2.4
-87.5°	2.7	2.6	2.4	2.3	2.1	2.0	1.8	1.7	1.5	1.4	1.2
-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: P731198 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-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°	1.0	0.9	0.7	0.5	0.3	0.2	0.0
85°	2.1	1.7	1.4	1.0	0.7	0.3	0.0
82.5°	3.1	2.6	2.1	1.6	1.0	0.5	0.0
80°	4.1	3.4	2.8	2.1	1.4	0.7	0.0
77.5°	4.9	4.2	3.4	2.6	1.7	0.9	0.0
75°	5.6	4.9	4.1	3.1	2.1	1.0	0.0
72.5°	6.4	5.5	4.6	3.6	2.4	1.2	0.0
70°	7.2	6.1	5.1	4.1	2.7	1.4	0.0
67.5°	8.6	6.7	5.6	4.4	3.1	1.5	0.0
65°	10.1	7.6	6.1	4.8	3.4	1.7	0.0
62.5°	11.5	8.8	6.5	5.1	3.7	1.8	0.0
60°	12.8	9.9	7.0	5.5	4.0	2.0	0.0
57.5°	14.4	11.0	7.8	5.8	4.2	2.1	0.0
55°	15.9	12.1	8.7	6.2	4.4	2.3	0.0
52.5°	17.4	13.2	9.6	6.5	4.6	2.4	0.0
50°	18.8	14.4	10.4	6.8	4.9	2.6	0.0
47.5°	20.3	15.5	11.2	7.1	5.1	2.7	0.0
45°	22.6	16.6	11.9	7.7	5.2	2.8	0.0
42.5°	24.8	17.7	12.7	8.3	5.4	2.9	0.0
40°	26.9	18.7	13.4	8.8	5.6	3.1	0.0
37.5°	28.9	19.7	14.2	9.3	5.8	3.2	0.0
35°	30.8	21.0	14.9	9.7	5.9	3.3	0.0
32.5°	33.8	22.5	15.6	10.2	6.1	3.4	0.0
30°	39.4	23.9	16.2	10.6	6.2	3.5	0.0
27.5°	44.5	25.2	16.8	11.0	6.3	3.5	0.0
25°	49.2	26.4	17.4	11.3	6.4	3.6	0.0
22.5°	53.5	27.4	17.8	11.6	6.5	3.7	0.0
20°	57.4	28.4	18.3	11.9	6.6	3.8	0.0
17.5°	60.8	29.3	18.7	12.2	6.7	3.8	0.0
15°	63.8	30.0	19.0	12.4	6.8	3.9	0.0
12.5°	66.4	30.6	19.3	12.6	6.9	3.9	0.0
10°	68.5	31.2	19.6	12.7	6.9	3.9	0.0
7.5°	70.1	31.6	19.8	12.8	6.9	4.0	0.0
5°	71.3	31.9	19.9	12.9	7.0	4.0	0.0
2.5°	72.0	32.0	20.0	13.0	7.0	4.0	0.0
0°	72.2	32.1	20.0	13.0	7.0	4.0	0.0
-2.5°	72.0	32.0	20.0	13.0	7.0	4.0	0.0
-5°	71.3	31.9	19.9	12.9	7.0	4.0	0.0
-7.5°	70.1	31.6	19.8	12.8	6.9	4.0	0.0
-10°	68.5	31.2	19.6	12.7	6.9	3.9	0.0
-12.5°	66.4	30.6	19.3	12.6	6.9	3.9	0.0
-15°	63.8	30.0	19.0	12.4	6.8	3.9	0.0
-17.5°	60.8	29.3	18.7	12.2	6.7	3.8	0.0
-20°	57.4	28.4	18.3	11.9	6.6	3.8	0.0



REPORT NUMBER: P731198 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	53.5	27.4	17.8	11.6	6.5	3.7	0.0
-25°	49.2	26.4	17.4	11.3	6.4	3.6	0.0
-27.5°	44.5	25.2	16.8	11.0	6.3	3.5	0.0
-30°	39.4	23.9	16.2	10.6	6.2	3.5	0.0
-32.5°	33.8	22.5	15.6	10.2	6.1	3.4	0.0
-35°	30.8	21.0	14.9	9.7	5.9	3.3	0.0
-37.5°	28.9	19.7	14.2	9.3	5.8	3.2	0.0
-40°	26.9	18.7	13.4	8.8	5.6	3.1	0.0
-42.5°	24.8	17.7	12.7	8.3	5.4	2.9	0.0
-45°	22.6	16.6	11.9	7.7	5.2	2.8	0.0
-47.5°	20.3	15.5	11.2	7.1	5.1	2.7	0.0
-50°	18.8	14.4	10.4	6.8	4.9	2.6	0.0
-52.5°	17.4	13.2	9.6	6.5	4.6	2.4	0.0
-55°	15.9	12.1	8.7	6.2	4.4	2.3	0.0
-57.5°	14.4	11.0	7.8	5.8	4.2	2.1	0.0
-60°	12.8	9.9	7.0	5.5	4.0	2.0	0.0
-62.5°	11.5	8.8	6.5	5.1	3.7	1.8	0.0
-65°	10.1	7.6	6.1	4.8	3.4	1.7	0.0
-67.5°	8.6	6.7	5.6	4.4	3.1	1.5	0.0
-70°	7.2	6.1	5.1	4.1	2.7	1.4	0.0
-72.5°	6.4	5.5	4.6	3.6	2.4	1.2	0.0
-75°	5.6	4.9	4.1	3.1	2.1	1.0	0.0
-77.5°	4.9	4.2	3.4	2.6	1.7	0.9	0.0
-80°	4.1	3.4	2.8	2.1	1.4	0.7	0.0
-82.5°	3.1	2.6	2.1	1.6	1.0	0.5	0.0
-85°	2.1	1.7	1.4	1.0	0.7	0.3	0.0
-87.5°	1.0	0.9	0.7	0.5	0.3	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

