

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: P731463 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-40-70-4S-CV2**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731463 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-25)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0530N-40-70-4S-CV2
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 4S BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

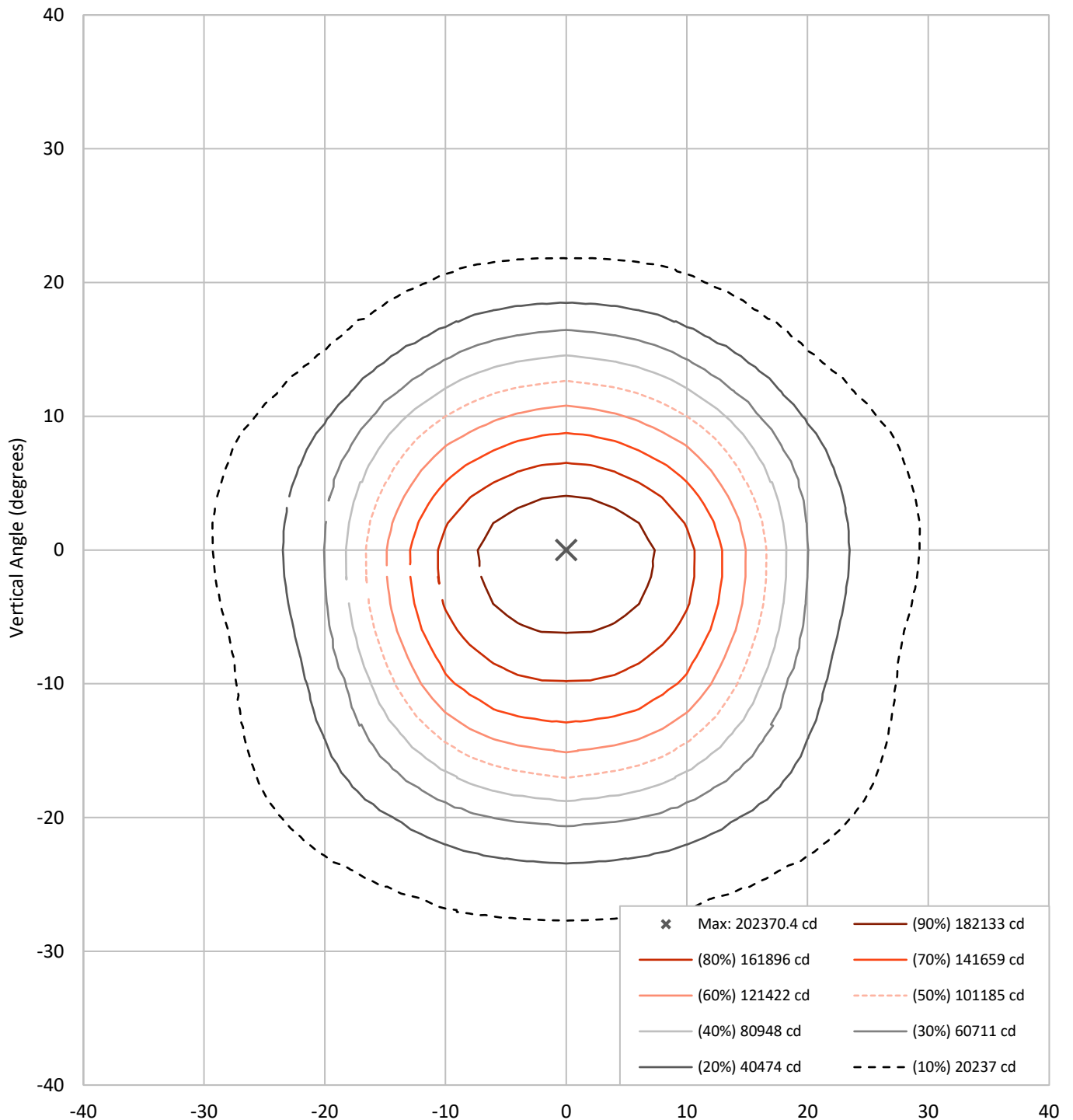
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	64767.7 lumens	Max Intensity:	202370.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	115.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	33.2°H x 29.7°V	Field Angle (10%):	58.6°H x 49.3°V
Beam Lumens:	35540.1 lumens	Field Lumens:	56943 lumens
Beam Efficiency:	54.9%	Field Efficiency:	87.9%

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

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Iso-Candela Plot





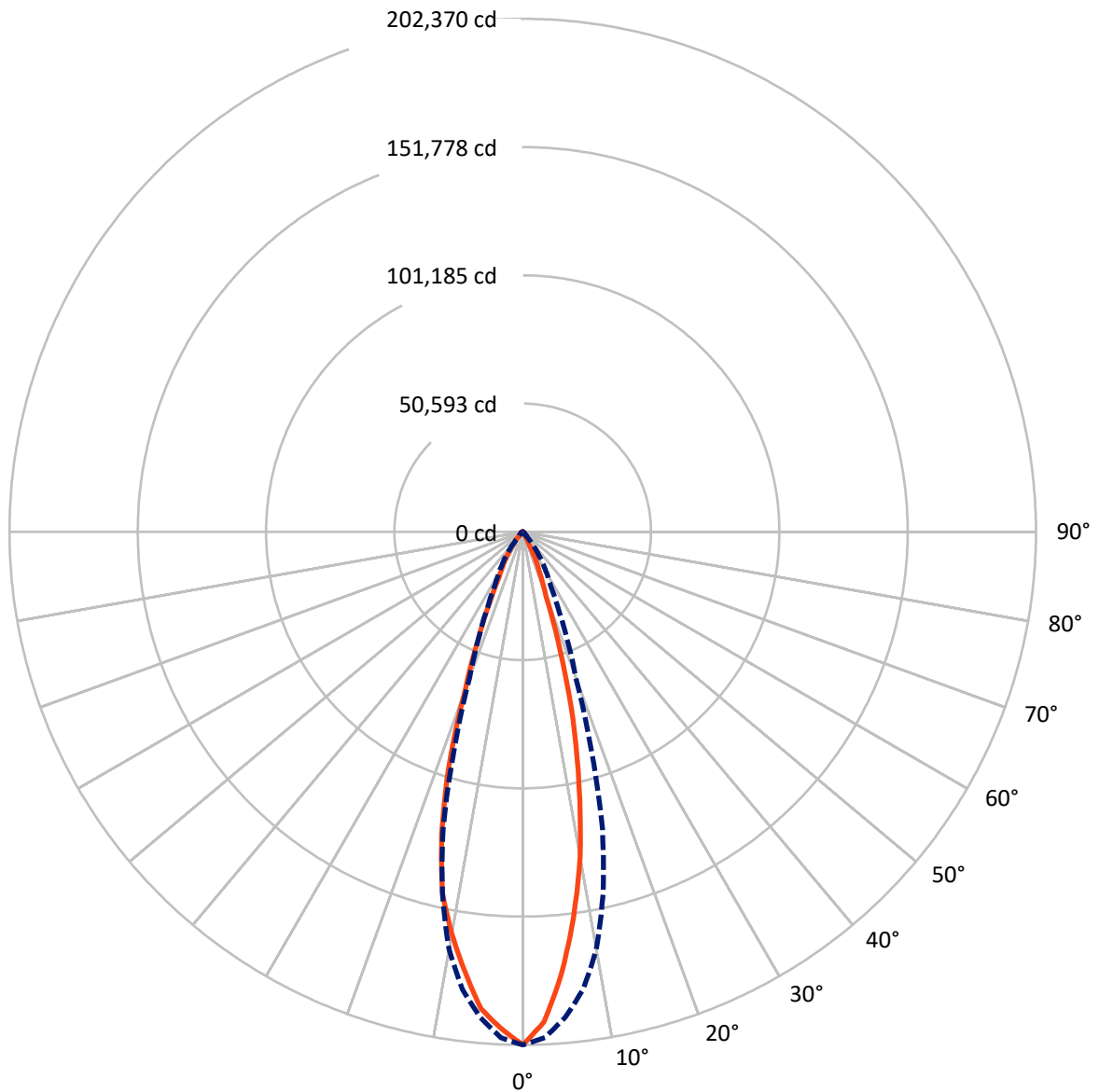
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Lumen Table

90	0.2		0.4		0.6		0.5		0.4		0.5		0.6		0.4		0.2	
80	0.2		0.4		0.6		0.5		0.4		0.5		0.6		0.4		0.2	
70	0.2	0.1	0.2	0.4	0.5	0.4	0.3	0.3	0.3	0.3	0.4	0.5	0.4	0.2	0.1	0.2	0.2	0.2
60		0.1	0.3	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7	0.3	0.1			
50	0.2	0.1	0.3	0.5	0.6	0.8	1.0	1.3	1.3	1.0	0.8	0.6	0.5	0.3	0.1	0.2	0.2	0.2
40		0.2	0.7	1.6	2.7	6.1	12.2	16.8	16.8	12.2	6.1	2.7	1.6	0.7	0.2			
30	0.2	0.4	2.3	6.4	23.7	86.3	204.5	346.0	346.0	204.5	86.3	23.7	6.4	2.3	0.4	0.2	0.2	0.2
20		0.8	5.3	17.1	104.9	363.1	1114.0	2104.8	2104.8	1114.0	363.1	104.9	17.1	5.3	0.8			
10	0.3	1.5	9.0	32.2	244.2	869.9	2885.4	4875.4	4875.4	2885.4	869.9	244.2	32.2	9.0	1.5	0.3	0.3	0.3
0		2.5	12.0	38.2	254.5	897.0	3238.5	5352.6	5352.6	3238.5	897.0	254.5	38.2	12.0	2.5			
-10	0.4	2.9	12.3	32.9	198.6	661.3	1934.1	3379.0	3379.0	1934.1	661.3	198.6	32.9	12.3	2.9	0.4	0.4	0.4
-20		2.7	10.6	22.6	85.8	313.8	653.2	977.6	977.6	653.2	313.8	85.8	22.6	10.6	2.7			
-30	0.4	2.1	8.0	15.7	29.5	84.8	192.5	271.9	271.9	192.5	84.8	29.5	15.7	8.0	2.1	0.4	0.4	0.4
-40		1.3	5.4	11.9	19.4	29.5	43.2	56.5	56.5	43.2	29.5	19.4	11.9	5.4	1.3			
-50	0.2	0.6	2.9	7.8	14.4	20.7	26.6	30.1	30.1	26.6	20.7	14.4	7.8	2.9	0.6	0.2	0.2	0.2
-60		0.3	1.1	3.2	6.9	12.0	17.2	20.2	20.2	17.2	12.0	6.9	3.2	1.1	0.3			
-70	0.2	0.6	2.9	7.8	14.4	20.7	26.6	30.1	30.1	26.6	20.7	14.4	7.8	2.9	0.6	0.2	0.2	0.2
-80		0.3	1.1	3.2	6.9	12.0	17.2	20.2	20.2	17.2	12.0	6.9	3.2	1.1	0.3			
-90	0.2		0.7		2.6		6.8		9.6		6.8		2.6		0.7		0.2	

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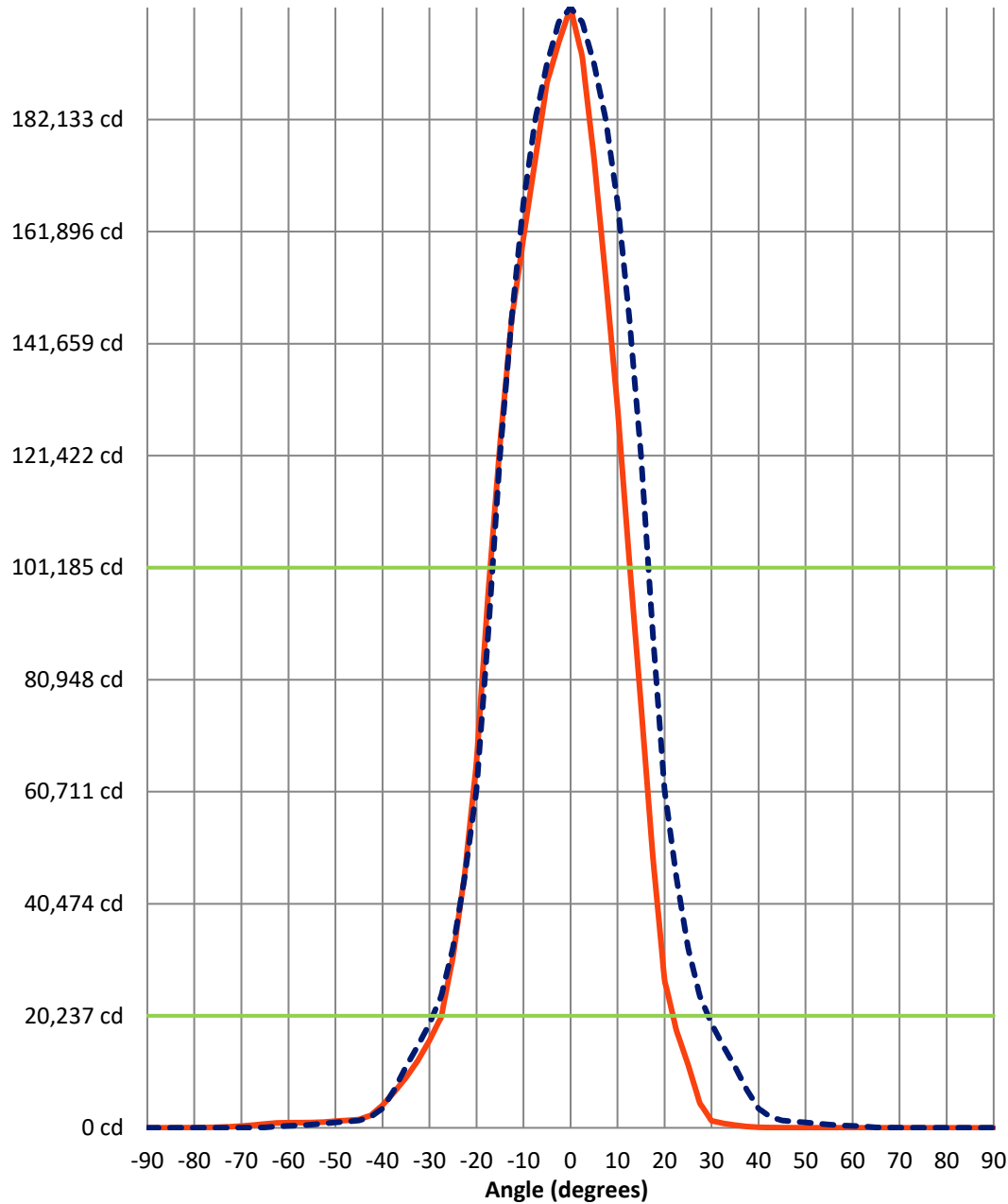
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 33.2°
 V Angle: 29.7°
 Lumens: 35540.1
 Efficiency: 54.9%

Field:
 H Angle: 58.6°
 V Angle: 49.3°
 Lumens: 56943
 Efficiency: 87.9%

Spill:
 Lumens: 7824.7
 Efficiency: 12.1%

- 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°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
87.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
85°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
82.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.2	7.1
80°	7.1	7.1	7.1	7.1	7.1	7.1	7.2	7.4	7.4	7.4	7.1
77.5°	7.1	7.1	7.1	7.1	7.1	7.2	7.6	7.8	7.8	7.6	7.2
75°	7.1	7.1	7.1	7.1	7.2	7.6	8.1	8.2	8.1	7.7	7.2
72.5°	7.1	7.1	7.1	7.1	7.5	8.0	8.5	8.6	8.2	7.7	7.3
70°	7.1	7.1	7.1	7.1	7.8	8.4	8.9	8.6	8.2	7.8	7.8
67.5°	7.1	7.1	7.1	7.4	8.0	8.7	8.9	8.7	8.3	8.2	8.5
65°	7.1	7.1	7.1	7.6	8.3	8.9	8.9	8.7	8.5	8.6	8.9
62.5°	7.1	7.1	7.1	7.8	8.6	8.9	8.9	8.8	8.7	8.9	8.9
60°	7.1	7.1	7.1	8.0	8.9	8.9	8.9	8.9	8.9	8.9	8.9
57.5°	7.1	7.1	7.2	8.2	8.9	8.9	8.9	8.9	8.9	8.9	8.9
55°	7.1	7.1	7.4	8.4	8.9	8.9	8.9	8.9	8.9	8.9	8.9
52.5°	7.1	7.1	7.5	8.6	8.9	8.9	8.9	8.9	8.9	8.9	8.9
50°	7.1	7.1	7.6	8.8	8.9	8.9	8.9	8.9	8.9	8.9	9.7
47.5°	7.1	7.1	7.7	8.9	8.9	8.9	8.9	8.9	8.9	8.9	10.5
45°	7.1	7.1	7.8	8.9	8.9	8.9	8.9	8.9	9.0	9.5	11.2
42.5°	7.1	7.1	8.0	8.9	8.9	8.9	8.9	9.0	9.1	10.0	11.6
40°	7.1	7.1	8.1	8.9	8.9	8.9	8.9	9.1	9.4	10.4	12.0
37.5°	7.1	7.1	8.2	8.9	8.9	8.9	8.9	9.3	9.9	11.0	12.4
35°	7.1	7.1	8.2	8.9	8.9	8.9	8.9	9.5	10.4	11.5	12.7
32.5°	7.1	7.1	8.3	8.9	8.9	8.9	9.0	9.7	10.9	12.1	13.5
30°	7.1	7.1	8.4	8.9	8.9	8.9	9.1	10.1	11.3	12.6	14.7
27.5°	7.1	7.1	8.5	8.9	8.9	8.9	9.3	10.4	11.8	13.1	16.1
25°	7.1	7.1	8.6	8.9	8.9	8.9	9.6	10.8	12.2	14.0	17.8
22.5°	7.1	7.1	8.6	8.9	8.9	8.9	9.8	11.2	12.6	15.3	21.5
20°	7.1	7.1	8.7	8.9	8.9	9.1	10.0	11.5	13.0	16.6	25.3
17.5°	7.1	7.1	8.7	8.9	8.9	9.2	10.2	11.8	13.4	18.1	29.2
15°	7.1	7.1	8.8	8.9	8.9	9.4	10.4	12.1	13.7	19.6	32.9
12.5°	7.1	7.1	8.8	8.9	8.9	9.6	10.5	12.5	14.7	21.1	36.7
10°	7.1	7.1	8.8	8.9	8.9	9.8	10.6	12.9	16.3	24.6	41.8
7.5°	7.1	7.1	8.9	8.9	8.9	10.1	10.7	13.3	18.0	28.4	50.3
5°	7.1	7.1	8.9	8.9	8.9	10.3	10.7	13.6	19.8	32.2	58.9
2.5°	7.1	7.1	8.9	8.9	8.9	10.5	10.7	14.0	21.5	35.8	67.2
0°	7.1	7.1	8.9	8.9	8.9	10.7	10.7	14.3	23.2	39.3	75.0
-2.5°	7.1	7.1	8.9	8.9	8.9	10.7	11.6	17.1	29.9	52.0	97.0
-5°	7.1	7.1	8.9	8.9	8.9	10.7	12.6	19.7	36.3	64.1	117.7
-7.5°	7.1	7.1	8.9	8.9	8.9	10.6	13.4	22.2	42.2	75.4	136.7
-10°	7.1	7.1	8.8	8.9	8.9	10.6	14.1	24.3	47.4	85.4	153.3
-12.5°	7.1	7.1	8.8	8.9	8.9	10.5	14.7	26.2	51.7	93.8	164.2
-15°	7.1	7.1	8.8	8.9	8.9	10.4	15.2	27.6	55.4	100.4	171.4
-17.5°	7.1	7.1	8.7	8.9	8.9	10.3	15.4	29.1	58.3	105.2	176.2
-20°	7.1	7.1	8.7	8.9	8.9	10.1	15.7	30.6	60.0	108.2	178.5



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 CATALOG NUMBER: EPH-LS-08-0530N-40-70-4S-CV2

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	7.1	7.1	8.6	8.9	8.9	10.0	16.4	31.5	60.4	109.2	178.1
-25°	7.1	7.1	8.6	8.9	8.9	10.1	16.7	31.8	59.4	108.0	174.9
-27.5°	7.1	7.1	8.5	8.9	8.9	10.3	16.6	31.6	56.8	105.5	173.1
-30°	7.1	7.1	8.4	8.9	8.9	10.3	16.1	30.6	55.1	102.5	168.5
-32.5°	7.1	7.1	8.3	8.9	9.0	10.2	15.2	29.9	54.0	97.3	161.0
-35°	7.1	7.1	8.2	8.9	9.1	10.0	14.8	28.9	51.9	89.9	150.4
-37.5°	7.1	7.1	8.2	8.9	9.1	9.8	14.6	27.2	48.8	80.4	133.9
-40°	7.1	7.1	8.1	8.9	9.2	9.9	14.1	24.9	44.8	74.1	117.9
-42.5°	7.1	7.1	8.0	8.9	9.2	10.0	13.4	21.9	41.0	67.1	101.0
-45°	7.1	7.1	7.8	9.0	9.3	10.0	12.5	19.4	36.8	59.2	84.6
-47.5°	7.1	7.1	7.7	9.0	9.3	10.0	11.3	18.0	31.8	50.9	75.2
-50°	7.1	7.1	7.6	8.9	9.4	9.9	11.1	16.3	25.6	43.8	65.2
-52.5°	7.1	7.1	7.5	8.8	9.4	9.8	10.9	14.3	21.8	36.1	54.7
-55°	7.1	7.1	7.4	8.6	9.5	9.9	10.8	12.3	18.9	27.8	45.3
-57.5°	7.1	7.1	7.2	8.4	9.5	9.9	10.6	12.0	15.7	22.9	35.2
-60°	7.1	7.1	7.1	8.3	9.5	10.0	10.4	11.6	12.8	18.8	26.4
-62.5°	7.1	7.1	7.1	8.1	9.3	10.0	10.4	11.2	12.4	14.4	21.2
-65°	7.1	7.1	7.1	7.9	9.1	10.0	10.5	10.9	11.9	13.0	15.6
-67.5°	7.1	7.1	7.1	7.7	8.8	9.9	10.5	10.8	11.4	12.4	13.5
-70°	7.1	7.1	7.1	7.5	8.5	9.6	10.5	10.8	11.2	11.8	12.8
-72.5°	7.1	7.1	7.1	7.4	8.3	9.2	10.2	10.7	11.0	11.5	12.2
-75°	7.1	7.1	7.1	7.4	8.0	8.9	9.8	10.3	10.7	11.0	11.6
-77.5°	7.1	7.1	7.1	7.4	7.8	8.5	9.4	9.8	10.2	10.5	10.9
-80°	7.1	7.1	7.1	7.3	7.7	8.2	8.9	9.3	9.6	9.8	10.1
-82.5°	7.1	7.1	7.1	7.3	7.6	8.0	8.5	8.7	8.9	9.2	9.4
-85°	7.1	7.1	7.1	7.2	7.4	7.7	8.0	8.2	8.3	8.5	8.6
-87.5°	7.1	7.1	7.1	7.2	7.3	7.4	7.6	7.6	7.7	7.8	7.9
-90°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1



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 CATALOG NUMBER: EPH-LS-08-0530N-40-70-4S-CV2

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	6.7	6.3	5.8
87.5°	6.7	6.3	5.8	5.4	5.4	5.4	5.4	5.4	5.0	4.5	4.1
85°	6.7	6.3	5.9	5.7	5.7	5.6	5.6	5.4	5.2	5.0	4.8
82.5°	6.9	6.7	6.6	6.6	6.5	6.2	5.9	5.4	5.4	5.4	5.4
80°	7.0	7.1	7.1	7.1	6.7	6.3	5.9	5.5	5.4	5.5	5.5
77.5°	7.1	7.1	7.1	7.1	6.8	6.5	6.4	6.3	6.3	6.2	5.9
75°	7.1	7.1	7.2	7.2	7.0	7.0	7.1	7.1	6.8	6.4	6.0
72.5°	7.4	7.6	7.6	7.3	7.1	7.1	7.1	7.1	7.3	7.4	7.3
70°	8.1	8.2	7.8	7.4	7.1	7.4	8.3	9.3	9.9	9.9	10.2
67.5°	8.8	8.3	7.9	7.7	8.5	9.6	10.7	12.1	13.6	14.1	14.9
65°	8.9	8.4	8.4	9.2	10.5	11.9	13.5	15.4	19.2	21.6	22.7
62.5°	8.9	8.8	9.3	10.6	12.5	14.2	17.0	21.3	27.1	31.2	31.4
60°	8.9	9.1	10.4	12.4	14.3	16.7	20.8	27.4	36.2	42.7	39.0
57.5°	8.9	9.9	12.0	14.0	15.9	18.6	25.0	33.5	42.4	51.8	44.3
55°	9.4	11.4	13.4	15.2	17.6	21.0	27.7	35.7	45.5	48.2	39.6
52.5°	10.6	12.6	14.2	16.3	19.4	22.7	27.3	34.3	37.4	38.2	33.0
50°	11.6	13.2	14.8	17.4	20.5	23.3	24.7	28.8	30.0	28.5	25.7
47.5°	12.3	13.8	15.3	18.1	21.2	23.6	23.7	23.8	23.4	23.0	18.9
45°	12.8	14.3	15.8	18.9	22.3	24.4	23.2	19.8	22.6	21.8	20.8
42.5°	13.2	14.8	17.4	19.8	24.3	25.6	23.7	24.5	25.3	26.4	26.8
40°	13.6	15.3	19.6	24.3	26.8	27.5	30.4	32.6	31.7	34.6	36.4
37.5°	14.0	17.7	23.6	32.5	29.7	33.6	39.2	48.0	48.4	45.6	52.4
35°	14.4	20.5	33.7	43.2	40.9	43.3	58.0	69.6	73.2	69.3	73.7
32.5°	16.1	23.6	46.3	56.2	61.9	64.9	81.6	99.2	112.4	115.0	104.2
30°	19.4	35.1	60.7	71.9	88.5	104.5	116.1	137.4	164.7	185.9	194.6
27.5°	23.7	49.1	75.8	96.0	121.3	148.6	168.7	195.3	239.6	277.8	309.1
25°	28.3	68.1	92.6	125.5	163.1	198.5	229.4	273.7	332.4	395.7	505.7
22.5°	38.4	89.8	118.0	158.1	207.7	252.0	303.4	366.4	441.6	528.4	732.5
20°	55.0	111.2	148.5	194.5	255.6	308.2	380.5	461.0	563.7	748.9	1095.2
17.5°	72.7	134.1	179.8	237.4	313.3	379.7	460.9	555.0	690.9	987.3	1669.4
15°	91.1	158.3	209.6	282.9	376.4	471.2	569.2	671.6	866.2	1324.6	2400.6
12.5°	109.6	183.1	237.9	330.0	443.3	566.6	683.5	813.8	1095.2	1904.4	3483.7
10°	127.9	208.0	264.8	377.5	512.2	664.2	796.9	950.3	1333.3	2429.6	4452.3
7.5°	158.1	240.5	293.4	424.3	581.6	761.8	908.1	1080.4	1565.8	2887.4	5344.4
5°	189.9	280.4	339.0	481.6	650.1	848.7	1008.7	1202.9	1786.0	3272.5	6181.2
2.5°	220.3	318.8	383.5	536.6	714.3	916.3	1072.6	1271.6	1903.8	3452.5	6698.1
0°	248.1	355.1	426.5	587.1	772.8	976.2	1129.7	1331.3	1975.6	3487.2	6863.8
-2.5°	281.8	394.9	471.0	627.2	804.8	1011.4	1165.9	1376.7	2049.9	3682.3	6893.8
-5°	310.7	431.8	513.3	663.0	831.6	1038.9	1196.1	1412.1	2084.6	3771.0	6748.9
-7.5°	334.0	465.6	553.4	691.3	845.5	1044.3	1207.2	1417.9	2060.4	3725.3	6452.2
-10°	348.1	479.8	563.1	690.8	840.9	1032.8	1207.4	1412.8	1990.8	3535.6	6035.7
-12.5°	337.9	475.9	564.8	685.6	832.4	1013.2	1198.8	1396.6	1872.3	3185.5	5548.3
-15°	325.3	469.5	563.6	675.6	820.1	985.8	1181.0	1369.0	1687.6	2642.6	4946.4
-17.5°	310.8	460.8	559.4	660.7	804.5	950.5	1144.8	1297.2	1496.5	2251.6	4252.5
-20°	295.1	449.8	551.8	641.0	785.4	899.6	1059.4	1216.4	1398.2	1914.7	3319.1



REPORT NUMBER: P731463 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-4S-CV2

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	278.7	436.6	539.2	628.1	736.7	841.0	969.6	1123.5	1290.1	1496.2	2326.3
-25°	269.1	411.9	521.1	598.4	684.1	781.1	877.4	1019.5	1177.2	1343.2	1780.1
-27.5°	264.1	388.1	491.5	568.7	633.4	721.3	803.1	916.6	1062.8	1204.7	1343.1
-30°	255.5	354.3	461.4	537.9	596.6	665.9	736.4	828.3	958.1	1082.7	1197.5
-32.5°	237.1	320.0	424.2	503.6	564.0	614.6	684.2	766.3	866.2	974.4	1066.8
-35°	214.4	292.9	384.2	469.4	531.9	579.8	642.5	711.5	784.8	878.7	989.2
-37.5°	193.5	263.5	344.4	431.1	495.1	553.3	601.5	663.6	726.9	796.4	906.9
-40°	170.9	231.8	308.4	388.1	462.1	522.5	572.6	619.0	674.3	743.8	817.7
-42.5°	147.4	205.2	271.5	346.0	420.2	485.3	542.1	585.0	632.3	692.1	757.8
-45°	127.9	177.1	233.7	304.2	374.3	442.8	500.7	554.8	600.1	644.2	700.9
-47.5°	107.6	149.4	201.5	261.6	328.2	392.5	455.3	515.0	572.6	613.7	648.5
-50°	89.1	126.5	169.0	224.1	282.3	342.4	401.2	471.1	532.1	584.0	624.5
-52.5°	77.3	102.9	141.9	187.1	239.4	293.5	351.6	415.9	482.0	543.7	591.0
-55°	64.8	86.8	114.4	153.5	197.8	246.9	301.2	360.3	420.4	482.4	542.9
-57.5°	52.7	72.3	93.4	120.6	159.0	201.0	250.8	303.1	358.5	414.8	470.7
-60°	40.5	57.7	76.7	96.6	120.1	157.9	199.0	245.1	294.3	344.8	395.4
-62.5°	28.9	43.0	59.7	77.7	96.3	116.8	150.1	188.4	228.1	270.1	314.0
-65°	22.5	29.8	42.1	58.0	74.9	92.9	112.7	134.3	167.4	199.9	230.8
-67.5°	15.8	22.5	29.2	37.4	51.9	67.3	83.9	101.9	121.1	140.1	162.3
-70°	14.1	16.0	21.2	27.2	32.9	40.4	54.0	68.4	83.3	97.7	113.5
-72.5°	13.2	14.6	16.5	18.8	23.6	28.3	32.9	37.4	46.1	57.9	69.6
-75°	12.3	13.2	14.5	16.2	18.1	20.0	22.4	26.4	30.0	33.6	37.1
-77.5°	11.3	12.0	12.7	13.7	14.8	16.3	17.9	19.6	21.1	22.5	24.1
-80°	10.4	10.7	11.1	11.7	12.4	13.2	14.1	15.1	15.8	16.6	17.5
-82.5°	9.6	9.8	10.0	10.2	10.3	10.5	10.8	11.3	11.8	12.3	12.7
-85°	8.8	8.9	9.0	9.2	9.0	8.8	8.7	8.6	8.8	9.0	9.2
-87.5°	7.9	8.0	8.1	8.1	7.9	7.7	7.4	7.1	7.0	6.9	6.8
-90°	6.7	6.3	5.8	5.4	5.4	5.4	5.4	5.4	5.0	4.5	4.1



REPORT NUMBER: P731463 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-4S-CV2

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	5.4	5.4	5.4	5.4	5.4	6.3	7.2	8.0	8.9	9.8	10.7
87.5°	3.6	3.6	3.6	3.6	3.6	3.2	2.7	2.3	1.8	1.8	1.8
85°	4.8	4.5	4.3	4.0	3.6	3.5	3.5	3.5	3.5	3.1	2.7
82.5°	5.4	5.0	4.5	4.1	3.6	3.6	3.6	3.6	3.6	3.2	2.7
80°	5.4	5.0	4.6	4.1	3.7	3.6	3.6	3.6	3.6	3.2	2.7
77.5°	5.5	5.1	4.9	4.7	4.6	4.5	4.3	4.0	3.7	3.2	2.7
75°	5.6	5.5	5.6	5.6	5.5	5.1	4.6	4.2	3.7	3.5	3.5
72.5°	7.0	6.7	6.6	6.8	6.8	6.6	6.2	5.8	5.2	5.1	5.2
70°	10.5	10.7	10.8	10.6	10.0	9.1	8.4	7.7	6.9	6.8	6.9
67.5°	15.8	16.0	15.5	14.4	12.5	10.9	10.2	9.5	8.7	8.5	8.6
65°	22.7	21.0	19.2	17.2	14.9	12.4	11.6	10.9	10.4	10.4	11.0
62.5°	29.4	23.9	19.3	16.3	14.1	12.3	11.5	10.7	10.0	9.6	9.9
60°	32.3	22.9	16.7	14.8	12.9	11.0	9.9	9.1	8.3	7.8	8.1
57.5°	32.4	22.5	15.5	13.2	11.2	9.5	8.6	8.1	7.6	7.1	7.7
55°	28.9	20.0	13.1	11.3	10.1	9.3	8.8	8.7	8.5	8.2	8.6
52.5°	23.2	16.7	12.2	10.5	10.6	10.6	10.6	10.6	10.8	11.1	11.5
50°	18.4	14.2	12.9	12.2	12.6	12.7	12.4	13.1	14.0	14.6	15.1
47.5°	16.9	15.5	15.6	15.3	15.9	17.1	17.4	17.9	19.3	20.2	20.8
45°	18.8	20.2	21.0	22.5	23.4	25.4	26.1	26.1	29.1	31.1	32.1
42.5°	26.3	28.6	31.4	34.2	35.6	38.2	40.9	42.4	46.8	50.3	51.7
40°	39.7	41.0	46.9	50.5	53.2	56.5	64.7	70.2	78.8	94.8	106.5
37.5°	58.4	62.6	66.1	71.3	82.4	87.9	114.4	138.4	154.8	194.7	217.2
35°	85.4	97.2	93.2	116.0	144.2	179.7	218.3	275.9	321.4	375.4	425.2
32.5°	133.9	162.6	190.3	216.8	280.3	382.2	385.0	492.7	564.7	652.1	729.0
30°	211.9	313.3	440.8	483.0	661.8	861.6	806.2	971.4	1135.1	1232.4	1568.6
27.5°	418.2	646.6	900.1	1222.0	1555.1	1898.6	2126.1	2205.8	3033.9	3642.8	4435.5
25°	715.5	1116.4	1824.3	2345.8	2930.7	3693.5	4134.2	4727.3	6108.7	7830.1	9167.2
22.5°	1140.3	1840.7	2776.0	3565.1	4441.8	5469.8	6399.6	7821.8	9969.9	12319.6	14318.5
20°	1616.3	2519.3	3704.4	4886.7	6036.0	7375.8	8993.5	11897.6	15216.6	18899.8	22229.6
17.5°	2494.6	3382.6	4900.2	6516.6	8149.5	9763.3	13320.7	17621.6	22817.3	28274.9	33122.2
15°	3749.7	5186.8	6692.1	8829.4	11547.2	14648.4	19153.8	26697.3	34766.8	43284.2	53438.2
12.5°	5387.6	7471.0	9729.2	12203.8	15888.6	21549.8	29023.6	38231.3	49781.6	62559.9	77008.7
10°	7059.1	10063.7	13173.6	16707.7	21564.4	28856.3	38508.2	50037.2	68201.7	86105.3	101185.3
7.5°	8418.0	11919.7	15843.3	20538.1	26868.1	35753.0	47680.6	64342.7	86004.9	107307.0	124177.1
5°	9693.1	13539.7	17624.3	22421.1	30052.5	40766.8	55131.2	75919.4	101834.7	124489.9	142567.0
2.5°	10618.0	14658.6	18884.3	23765.1	32465.6	43814.7	59585.1	85371.5	115199.9	138411.5	159138.9
0°	11027.4	14766.2	18808.4	23816.2	32544.9	45369.4	61129.6	89362.8	121386.5	146340.4	167161.0
-2.5°	10519.8	14149.6	18320.9	23213.1	31963.0	44282.7	60562.6	88913.3	121047.2	146354.3	166881.7
-5°	9982.7	13423.8	17296.1	21818.3	29796.9	41252.0	57862.0	84950.1	115786.1	141228.5	161252.7
-7.5°	9410.2	12559.7	16024.0	20081.3	27159.7	38182.9	53606.2	76468.7	105292.0	131196.8	150029.6
-10°	8755.7	11622.8	15265.9	19566.1	25728.2	35310.3	48065.2	66380.9	93377.7	117446.0	138123.3
-12.5°	8371.4	11429.5	15070.0	19019.8	23990.5	32434.8	44040.2	59663.6	78143.7	100500.7	118899.2
-15°	7877.5	10973.0	14583.4	18289.1	22890.1	29483.2	38646.1	50121.6	64183.2	79249.1	95579.7
-17.5°	7065.4	10159.2	13066.6	16544.5	20914.6	26123.5	32708.3	41614.1	50944.0	61618.9	71389.3
-20°	5728.0	8227.1	10976.6	14253.6	18010.3	21957.7	26354.9	32423.0	38341.3	45814.7	51814.4



REPORT NUMBER: P731463 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-4S-CV2

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	4121.1	6233.4	8615.6	11323.8	14298.7	17678.3	20990.8	24193.0	28249.1	32979.7	37800.3
-25°	2683.9	4246.7	6309.5	8529.1	10606.9	13307.6	15687.5	17600.0	20335.1	22475.6	25396.9
-27.5°	1858.5	2874.3	4410.9	6179.4	7818.3	9547.0	11484.4	12790.0	14920.7	16078.6	17869.4
-30°	1359.9	1930.0	3035.2	4357.9	5785.6	7257.1	8640.3	10075.8	11557.9	12868.6	13862.4
-32.5°	1206.0	1429.9	1974.9	2926.9	4044.2	5278.0	6449.3	7700.8	8881.4	9897.4	10717.2
-35°	1101.5	1227.0	1398.2	1901.6	2568.4	3531.7	4453.1	5466.2	6414.5	7199.8	7858.0
-37.5°	1018.7	1119.3	1227.0	1337.4	1711.7	2133.4	2788.3	3492.3	4100.9	4796.2	5333.2
-40°	924.7	1032.1	1118.4	1206.5	1305.8	1411.6	1766.1	2081.3	2425.1	2894.5	3278.0
-42.5°	827.7	921.2	1018.4	1100.4	1175.3	1254.3	1334.0	1404.6	1579.2	1786.2	1943.2
-45°	760.6	826.7	897.9	984.9	1065.5	1134.0	1198.5	1260.3	1323.6	1382.2	1430.7
-47.5°	701.4	754.9	813.6	873.3	933.9	1004.4	1070.5	1133.2	1188.2	1238.1	1278.3
-50°	658.3	695.3	744.1	791.2	843.0	892.1	936.0	987.5	1043.8	1094.9	1135.8
-52.5°	636.4	668.8	696.8	730.6	777.4	818.5	854.6	895.4	934.5	970.4	996.7
-55°	593.5	635.8	676.7	714.8	747.0	776.4	807.8	847.7	882.1	911.6	927.9
-57.5°	526.2	580.6	632.1	680.3	725.7	768.4	803.8	835.6	867.4	897.6	911.5
-60°	446.7	498.6	552.3	610.5	669.0	727.3	770.3	811.2	849.8	882.2	899.4
-62.5°	361.2	408.5	456.6	508.9	564.7	619.3	666.1	715.0	765.0	808.2	835.7
-65°	264.2	304.5	347.5	390.4	432.8	476.4	518.2	559.3	599.3	631.7	654.2
-67.5°	189.4	215.4	242.0	269.5	302.3	336.0	366.9	396.8	425.4	448.2	465.1
-70°	130.2	147.0	162.7	180.2	201.2	221.7	240.7	258.8	275.7	290.1	302.1
-72.5°	81.0	92.0	102.9	115.2	127.1	138.6	149.4	159.5	168.8	177.3	185.0
-75°	40.6	45.8	54.4	62.7	70.4	78.4	85.9	92.4	98.1	102.8	106.9
-77.5°	26.4	29.6	32.8	35.8	38.5	42.3	46.4	50.6	54.8	58.1	61.3
-80°	18.5	20.3	22.2	24.1	26.1	28.5	30.9	33.3	35.6	37.1	38.4
-82.5°	13.2	14.2	15.3	16.4	17.5	19.2	20.9	22.6	24.2	25.3	26.4
-85°	9.4	9.9	10.4	10.9	11.5	13.0	14.5	15.9	17.4	18.4	19.4
-87.5°	6.8	6.8	6.9	6.9	6.9	8.3	9.6	11.0	12.4	12.9	13.4
-90°	3.6	3.6	3.6	3.6	3.6	3.2	2.7	2.3	1.8	1.8	1.8



REPORT NUMBER: P731463 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-4S-CV2

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	11.6	12.5	12.5	12.5	12.5	12.5	11.6	10.7	9.8	8.9	8.0
87.5°	1.8	1.8	0.9	0.0	0.9	1.8	1.8	1.8	1.8	1.8	2.3
85°	2.2	1.8	1.8	1.8	1.8	1.8	2.2	2.7	3.1	3.5	3.5
82.5°	2.3	1.8	1.8	1.8	1.8	1.8	2.3	2.7	3.2	3.6	3.6
80°	2.3	1.8	1.8	1.8	1.8	1.8	2.3	2.7	3.2	3.6	3.6
77.5°	2.3	1.8	1.8	1.8	1.8	1.8	2.3	2.7	3.2	3.7	4.0
75°	3.5	3.6	3.6	3.6	3.6	3.6	3.5	3.5	3.5	3.7	4.2
72.5°	5.3	5.4	5.4	5.4	5.4	5.4	5.3	5.2	5.1	5.2	5.8
70°	7.0	7.0	6.3	5.4	6.3	7.0	7.0	6.9	6.8	6.9	7.7
67.5°	8.8	8.8	9.7	10.7	9.7	8.8	8.8	8.6	8.5	8.7	9.5
65°	11.6	12.3	11.7	10.7	11.7	12.3	11.6	11.0	10.4	10.4	10.9
62.5°	10.3	10.7	9.9	8.9	9.9	10.7	10.3	9.9	9.6	10.0	10.7
60°	8.4	8.9	8.9	8.9	8.9	8.9	8.4	8.1	7.8	8.3	9.1
57.5°	8.2	8.7	8.9	8.9	8.9	8.7	8.2	7.7	7.1	7.6	8.1
55°	8.8	8.9	8.9	8.9	8.9	8.9	8.8	8.6	8.2	8.5	8.7
52.5°	12.0	12.3	12.4	12.5	12.4	12.3	12.0	11.5	11.1	10.8	10.6
50°	15.5	15.8	16.0	16.1	16.0	15.8	15.5	15.1	14.6	14.0	13.1
47.5°	21.2	21.3	21.3	21.4	21.3	21.3	21.2	20.8	20.2	19.3	17.9
45°	32.6	32.2	31.9	32.1	31.9	32.2	32.6	32.1	31.1	29.1	26.1
42.5°	53.1	53.1	53.0	53.5	53.0	53.1	53.1	51.7	50.3	46.8	42.4
40°	109.6	105.7	100.1	99.9	100.1	105.7	109.6	106.5	94.8	78.8	70.2
37.5°	228.3	232.3	231.8	235.6	231.8	232.3	228.3	217.2	194.7	154.8	138.4
35°	463.0	483.7	488.4	487.2	488.4	483.7	463.0	425.2	375.4	321.4	275.9
32.5°	762.5	790.1	797.8	808.4	797.8	790.1	762.5	729.0	652.1	564.7	492.7
30°	1340.6	1377.7	1342.4	1270.7	1342.4	1377.7	1340.6	1568.6	1232.4	1135.1	971.4
27.5°	4857.6	5035.7	4634.7	4488.4	4634.7	5035.7	4857.6	4435.5	3642.8	3033.9	2205.8
25°	9899.6	10687.6	11495.2	11423.5	11495.2	10687.6	9899.6	9167.2	7830.1	6108.7	4727.3
22.5°	15976.7	16775.1	17440.6	17669.8	17440.6	16775.1	15976.7	14318.5	12319.6	9969.9	7821.8
20°	25305.7	26860.7	27974.2	26787.6	27974.2	26860.7	25305.7	22229.6	18899.8	15216.6	11897.6
17.5°	40449.7	45132.3	47564.9	49101.1	47564.9	45132.3	40449.7	33122.2	28274.9	22817.3	17621.6
15°	62791.2	69853.1	73765.5	76356.2	73765.5	69853.1	62791.2	53438.2	43284.2	34766.8	26697.3
12.5°	88556.5	96256.0	99714.0	102536.2	99714.0	96256.0	88556.5	77008.7	62559.9	49781.6	38231.3
10°	113049.9	121368.2	127127.4	130120.6	127127.4	121368.2	113049.9	101185.3	86105.3	68201.7	50037.2
7.5°	135491.7	145667.3	151511.6	153371.9	151511.6	145667.3	135491.7	124177.1	107307.0	86004.9	64342.7
5°	157442.8	166521.7	173550.1	175143.8	173550.1	166521.7	157442.8	142567.0	124489.9	101834.7	75919.4
2.5°	174344.2	185225.1	191535.2	193442.7	191535.2	185225.1	174344.2	159138.9	138411.5	115199.9	85371.5
0°	182089.6	192219.3	199690.7	202370.4	199690.7	192219.3	182089.6	167161.0	146340.4	121386.5	89362.8
-2.5°	180469.5	189804.6	195152.7	196074.2	195152.7	189804.6	180469.5	166881.7	146354.3	121047.2	88913.3
-5°	174771.7	183348.8	188631.0	188782.0	188631.0	183348.8	174771.7	161252.7	141228.5	115786.1	84950.1
-7.5°	162256.3	170276.7	173959.3	174884.1	173959.3	170276.7	162256.3	150029.6	131196.8	105292.0	76468.7
-10°	149517.8	156958.8	160438.7	160823.7	160438.7	156958.8	149517.8	138123.3	117446.0	93377.7	66380.9
-12.5°	133017.5	140979.4	144453.9	146087.8	144453.9	140979.4	133017.5	118899.2	100500.7	78143.7	59663.6
-15°	108463.2	116162.2	120330.6	123408.5	120330.6	116162.2	108463.2	95579.7	79249.1	64183.2	50121.6
-17.5°	82153.4	88752.4	92860.3	96599.5	92860.3	88752.4	82153.4	71389.3	61618.9	50944.0	41614.1
-20°	58489.7	62692.3	63983.1	65998.1	63983.1	62692.3	58489.7	51814.4	45814.7	38341.3	32423.0



REPORT NUMBER: P731463 (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°	41080.3	43469.8	44983.3	45838.7	44983.3	43469.8	41080.3	37800.3	32979.7	28249.1	24193.0
-25°	27849.5	29506.7	30151.2	30894.1	30151.2	29506.7	27849.5	25396.9	22475.6	20335.1	17600.0
-27.5°	18654.8	19335.2	19800.0	20052.3	19800.0	19335.2	18654.8	17869.4	16078.6	14920.7	12790.0
-30°	14662.4	15284.7	15657.9	15776.3	15657.9	15284.7	14662.4	13862.4	12868.6	11557.9	10075.8
-32.5°	11352.0	11822.3	12073.8	12107.1	12073.8	11822.3	11352.0	10717.2	9897.4	8881.4	7700.8
-35°	8409.8	8838.3	9075.5	9058.9	9075.5	8838.3	8409.8	7858.0	7199.8	6414.5	5466.2
-37.5°	5795.1	6158.3	6381.1	6439.0	6381.1	6158.3	5795.1	5333.2	4796.2	4100.9	3492.3
-40°	3625.4	3892.1	4051.4	4072.6	4051.4	3892.1	3625.4	3278.0	2894.5	2425.1	2081.3
-42.5°	2081.0	2189.1	2249.8	2246.9	2249.8	2189.1	2081.0	1943.2	1786.2	1579.2	1404.6
-45°	1462.6	1486.8	1500.5	1502.7	1500.5	1486.8	1462.6	1430.7	1382.2	1323.6	1260.3
-47.5°	1307.3	1330.2	1342.4	1343.8	1342.4	1330.2	1307.3	1278.3	1238.1	1188.2	1133.2
-50°	1168.5	1195.7	1210.5	1213.6	1210.5	1195.7	1168.5	1135.8	1094.9	1043.8	987.5
-52.5°	1017.9	1035.9	1041.9	1038.7	1041.9	1035.9	1017.9	996.7	970.4	934.5	895.4
-55°	943.1	957.7	964.1	965.5	964.1	957.7	943.1	927.9	911.6	882.1	847.7
-57.5°	925.0	938.1	942.2	942.3	942.2	938.1	925.0	911.5	897.6	867.4	835.6
-60°	916.3	932.7	935.9	933.4	935.9	932.7	916.3	899.4	882.2	849.8	811.2
-62.5°	860.2	881.2	887.8	887.0	887.8	881.2	860.2	835.7	808.2	765.0	715.0
-65°	673.2	688.6	696.5	699.6	696.5	688.6	673.2	654.2	631.7	599.3	559.3
-67.5°	478.8	489.5	492.9	492.6	492.9	489.5	478.8	465.1	448.2	425.4	396.8
-70°	312.2	320.4	321.3	319.5	321.3	320.4	312.2	302.1	290.1	275.7	258.8
-72.5°	191.6	197.3	196.7	194.5	196.7	197.3	191.6	185.0	177.3	168.8	159.5
-75°	110.2	113.0	112.2	110.6	112.2	113.0	110.2	106.9	102.8	98.1	92.4
-77.5°	64.3	67.2	67.7	67.8	67.7	67.2	64.3	61.3	58.1	54.8	50.6
-80°	39.7	40.8	41.0	41.0	41.0	40.8	39.7	38.4	37.1	35.6	33.3
-82.5°	27.5	28.5	28.6	28.6	28.6	28.5	27.5	26.4	25.3	24.2	22.6
-85°	20.4	21.3	21.4	21.4	21.4	21.3	20.4	19.4	18.4	17.4	15.9
-87.5°	13.8	14.3	14.3	14.3	14.3	14.3	13.8	13.4	12.9	12.4	11.0
-90°	1.8	1.8	0.9	0.0	0.9	1.8	1.8	1.8	1.8	1.8	2.3



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	7.2	6.3	5.4	5.4	5.4	5.4	5.4	5.8	6.3	6.7	7.1
87.5°	2.7	3.2	3.6	3.6	3.6	3.6	3.6	4.1	4.5	5.0	5.4
85°	3.5	3.5	3.6	4.0	4.3	4.5	4.8	4.8	5.0	5.2	5.4
82.5°	3.6	3.6	3.6	4.1	4.5	5.0	5.4	5.4	5.4	5.4	5.4
80°	3.6	3.6	3.7	4.1	4.6	5.0	5.4	5.5	5.5	5.4	5.5
77.5°	4.3	4.5	4.6	4.7	4.9	5.1	5.5	5.9	6.2	6.3	6.3
75°	4.6	5.1	5.5	5.6	5.6	5.5	5.6	6.0	6.4	6.8	7.1
72.5°	6.2	6.6	6.8	6.8	6.6	6.7	7.0	7.3	7.4	7.3	7.1
70°	8.4	9.1	10.0	10.6	10.8	10.7	10.5	10.2	9.9	9.9	9.3
67.5°	10.2	10.9	12.5	14.4	15.5	16.0	15.8	14.9	14.1	13.6	12.1
65°	11.6	12.4	14.9	17.2	19.2	21.0	22.7	22.7	21.6	19.2	15.4
62.5°	11.5	12.3	14.1	16.3	19.3	23.9	29.4	31.4	31.2	27.1	21.3
60°	9.9	11.0	12.9	14.8	16.7	22.9	32.3	39.0	42.7	36.2	27.4
57.5°	8.6	9.5	11.2	13.2	15.5	22.5	32.4	44.3	51.8	42.4	33.5
55°	8.8	9.3	10.1	11.3	13.1	20.0	28.9	39.6	48.2	45.5	35.7
52.5°	10.6	10.6	10.6	10.5	12.2	16.7	23.2	33.0	38.2	37.4	34.3
50°	12.4	12.7	12.6	12.2	12.9	14.2	18.4	25.7	28.5	30.0	28.8
47.5°	17.4	17.1	15.9	15.3	15.6	15.5	16.9	18.9	23.0	23.4	23.8
45°	26.1	25.4	23.4	22.5	21.0	20.2	18.8	20.8	21.8	22.6	19.8
42.5°	40.9	38.2	35.6	34.2	31.4	28.6	26.3	26.8	26.4	25.3	24.5
40°	64.7	56.5	53.2	50.5	46.9	41.0	39.7	36.4	34.6	31.7	32.6
37.5°	114.4	87.9	82.4	71.3	66.1	62.6	58.4	52.4	45.6	48.4	48.0
35°	218.3	179.7	144.2	116.0	93.2	97.2	85.4	73.7	69.3	73.2	69.6
32.5°	385.0	382.2	280.3	216.8	190.3	162.6	133.9	104.2	115.0	112.4	99.2
30°	806.2	861.6	661.8	483.0	440.8	313.3	211.9	194.6	185.9	164.7	137.4
27.5°	2126.1	1898.6	1555.1	1222.0	900.1	646.6	418.2	309.1	277.8	239.6	195.3
25°	4134.2	3693.5	2930.7	2345.8	1824.3	1116.4	715.5	505.7	395.7	332.4	273.7
22.5°	6399.6	5469.8	4441.8	3565.1	2776.0	1840.7	1140.3	732.5	528.4	441.6	366.4
20°	8993.5	7375.8	6036.0	4886.7	3704.4	2519.3	1616.3	1095.2	748.9	563.7	461.0
17.5°	13320.7	9763.3	8149.5	6516.6	4900.2	3382.6	2494.6	1669.4	987.3	690.9	555.0
15°	19153.8	14648.4	11547.2	8829.4	6692.1	5186.8	3749.7	2400.6	1324.6	866.2	671.6
12.5°	29023.6	21549.8	15888.6	12203.8	9729.2	7471.0	5387.6	3483.7	1904.4	1095.2	813.8
10°	38508.2	28856.3	21564.4	16707.7	13173.6	10063.7	7059.1	4452.3	2429.6	1333.3	950.3
7.5°	47680.6	35753.0	26868.1	20538.1	15843.3	11919.7	8418.0	5344.4	2887.4	1565.8	1080.4
5°	55131.2	40766.8	30052.5	22421.1	17624.3	13539.7	9693.1	6181.2	3272.5	1786.0	1202.9
2.5°	59585.1	43814.7	32465.6	23765.1	18884.3	14658.6	10618.0	6698.1	3452.5	1903.8	1271.6
0°	61129.6	45369.4	32544.9	23816.2	18808.4	14766.2	11027.4	6863.8	3487.2	1975.6	1331.3
-2.5°	60562.6	44282.7	31963.0	23213.1	18320.9	14149.6	10519.8	6893.8	3682.3	2049.9	1376.7
-5°	57862.0	41252.0	29796.9	21818.3	17296.1	13423.8	9982.7	6748.9	3771.0	2084.6	1412.1
-7.5°	53606.2	38182.9	27159.7	20081.3	16024.0	12559.7	9410.2	6452.2	3725.3	2060.4	1417.9
-10°	48065.2	35310.3	25728.2	19566.1	15265.9	11622.8	8755.7	6035.7	3535.6	1990.8	1412.8
-12.5°	44040.2	32434.8	23990.5	19019.8	15070.0	11429.5	8371.4	5548.3	3185.5	1872.3	1396.6
-15°	38646.1	29483.2	22890.1	18289.1	14583.4	10973.0	7877.5	4946.4	2642.6	1687.6	1369.0
-17.5°	32708.3	26123.5	20914.6	16544.5	13066.6	10159.2	7065.4	4252.5	2251.6	1496.5	1297.2
-20°	26354.9	21957.7	18010.3	14253.6	10976.6	8227.1	5728.0	3319.1	1914.7	1398.2	1216.4



REPORT NUMBER: P731463 (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°	20990.8	17678.3	14298.7	11323.8	8615.6	6233.4	4121.1	2326.3	1496.2	1290.1	1123.5
-25°	15687.5	13307.6	10606.9	8529.1	6309.5	4246.7	2683.9	1780.1	1343.2	1177.2	1019.5
-27.5°	11484.4	9547.0	7818.3	6179.4	4410.9	2874.3	1858.5	1343.1	1204.7	1062.8	916.6
-30°	8640.3	7257.1	5785.6	4357.9	3035.2	1930.0	1359.9	1197.5	1082.7	958.1	828.3
-32.5°	6449.3	5278.0	4044.2	2926.9	1974.9	1429.9	1206.0	1066.8	974.4	866.2	766.3
-35°	4453.1	3531.7	2568.4	1901.6	1398.2	1227.0	1101.5	989.2	878.7	784.8	711.5
-37.5°	2788.3	2133.4	1711.7	1337.4	1227.0	1119.3	1018.7	906.9	796.4	726.9	663.6
-40°	1766.1	1411.6	1305.8	1206.5	1118.4	1032.1	924.7	817.7	743.8	674.3	619.0
-42.5°	1334.0	1254.3	1175.3	1100.4	1018.4	921.2	827.7	757.8	692.1	632.3	585.0
-45°	1198.5	1134.0	1065.5	984.9	897.9	826.7	760.6	700.9	644.2	600.1	554.8
-47.5°	1070.5	1004.4	933.9	873.3	813.6	754.9	701.4	648.5	613.7	572.6	515.0
-50°	936.0	892.1	843.0	791.2	744.1	695.3	658.3	624.5	584.0	532.1	471.1
-52.5°	854.6	818.5	777.4	730.6	696.8	668.8	636.4	591.0	543.7	482.0	415.9
-55°	807.8	776.4	747.0	714.8	676.7	635.8	593.5	542.9	482.4	420.4	360.3
-57.5°	803.8	768.4	725.7	680.3	632.1	580.6	526.2	470.7	414.8	358.5	303.1
-60°	770.3	727.3	669.0	610.5	552.3	498.6	446.7	395.4	344.8	294.3	245.1
-62.5°	666.1	619.3	564.7	508.9	456.6	408.5	361.2	314.0	270.1	228.1	188.4
-65°	518.2	476.4	432.8	390.4	347.5	304.5	264.2	230.8	199.9	167.4	134.3
-67.5°	366.9	336.0	302.3	269.5	242.0	215.4	189.4	162.3	140.1	121.1	101.9
-70°	240.7	221.7	201.2	180.2	162.7	147.0	130.2	113.5	97.7	83.3	68.4
-72.5°	149.4	138.6	127.1	115.2	102.9	92.0	81.0	69.6	57.9	46.1	37.4
-75°	85.9	78.4	70.4	62.7	54.4	45.8	40.6	37.1	33.6	30.0	26.4
-77.5°	46.4	42.3	38.5	35.8	32.8	29.6	26.4	24.1	22.5	21.1	19.6
-80°	30.9	28.5	26.1	24.1	22.2	20.3	18.5	17.5	16.6	15.8	15.1
-82.5°	20.9	19.2	17.5	16.4	15.3	14.2	13.2	12.7	12.3	11.8	11.3
-85°	14.5	13.0	11.5	10.9	10.4	9.9	9.4	9.2	9.0	8.8	8.6
-87.5°	9.6	8.3	6.9	6.9	6.9	6.8	6.8	6.8	6.9	7.0	7.1
-90°	2.7	3.2	3.6	3.6	3.6	3.6	3.6	4.1	4.5	5.0	5.4



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
87.5°	5.4	5.4	5.4	5.4	5.8	6.3	6.7	7.1	7.1	7.1	7.1
85°	5.6	5.6	5.7	5.7	5.9	6.3	6.7	7.1	7.1	7.1	7.1
82.5°	5.9	6.2	6.5	6.6	6.6	6.7	6.9	7.1	7.2	7.1	7.1
80°	5.9	6.3	6.7	7.1	7.1	7.1	7.0	7.1	7.4	7.4	7.4
77.5°	6.4	6.5	6.8	7.1	7.1	7.1	7.1	7.2	7.6	7.8	7.8
75°	7.1	7.0	7.0	7.2	7.2	7.1	7.1	7.2	7.7	8.1	8.2
72.5°	7.1	7.1	7.1	7.3	7.6	7.6	7.4	7.3	7.7	8.2	8.6
70°	8.3	7.4	7.1	7.4	7.8	8.2	8.1	7.8	7.8	8.2	8.6
67.5°	10.7	9.6	8.5	7.7	7.9	8.3	8.8	8.5	8.2	8.3	8.7
65°	13.5	11.9	10.5	9.2	8.4	8.4	8.9	8.9	8.6	8.5	8.7
62.5°	17.0	14.2	12.5	10.6	9.3	8.8	8.9	8.9	8.9	8.7	8.8
60°	20.8	16.7	14.3	12.4	10.4	9.1	8.9	8.9	8.9	8.9	8.9
57.5°	25.0	18.6	15.9	14.0	12.0	9.9	8.9	8.9	8.9	8.9	8.9
55°	27.7	21.0	17.6	15.2	13.4	11.4	9.4	8.9	8.9	8.9	8.9
52.5°	27.3	22.7	19.4	16.3	14.2	12.6	10.6	8.9	8.9	8.9	8.9
50°	24.7	23.3	20.5	17.4	14.8	13.2	11.6	9.7	8.9	8.9	8.9
47.5°	23.7	23.6	21.2	18.1	15.3	13.8	12.3	10.5	8.9	8.9	8.9
45°	23.2	24.4	22.3	18.9	15.8	14.3	12.8	11.2	9.5	9.0	8.9
42.5°	23.7	25.6	24.3	19.8	17.4	14.8	13.2	11.6	10.0	9.1	9.0
40°	30.4	27.5	26.8	24.3	19.6	15.3	13.6	12.0	10.4	9.4	9.1
37.5°	39.2	33.6	29.7	32.5	23.6	17.7	14.0	12.4	11.0	9.9	9.3
35°	58.0	43.3	40.9	43.2	33.7	20.5	14.4	12.7	11.5	10.4	9.5
32.5°	81.6	64.9	61.9	56.2	46.3	23.6	16.1	13.5	12.1	10.9	9.7
30°	116.1	104.5	88.5	71.9	60.7	35.1	19.4	14.7	12.6	11.3	10.1
27.5°	168.7	148.6	121.3	96.0	75.8	49.1	23.7	16.1	13.1	11.8	10.4
25°	229.4	198.5	163.1	125.5	92.6	68.1	28.3	17.8	14.0	12.2	10.8
22.5°	303.4	252.0	207.7	158.1	118.0	89.8	38.4	21.5	15.3	12.6	11.2
20°	380.5	308.2	255.6	194.5	148.5	111.2	55.0	25.3	16.6	13.0	11.5
17.5°	460.9	379.7	313.3	237.4	179.8	134.1	72.7	29.2	18.1	13.4	11.8
15°	569.2	471.2	376.4	282.9	209.6	158.3	91.1	32.9	19.6	13.7	12.1
12.5°	683.5	566.6	443.3	330.0	237.9	183.1	109.6	36.7	21.1	14.7	12.5
10°	796.9	664.2	512.2	377.5	264.8	208.0	127.9	41.8	24.6	16.3	12.9
7.5°	908.1	761.8	581.6	424.3	293.4	240.5	158.1	50.3	28.4	18.0	13.3
5°	1008.7	848.7	650.1	481.6	339.0	280.4	189.9	58.9	32.2	19.8	13.6
2.5°	1072.6	916.3	714.3	536.6	383.5	318.8	220.3	67.2	35.8	21.5	14.0
0°	1129.7	976.2	772.8	587.1	426.5	355.1	248.1	75.0	39.3	23.2	14.3
-2.5°	1165.9	1011.4	804.8	627.2	471.0	394.9	281.8	97.0	52.0	29.9	17.1
-5°	1196.1	1038.9	831.6	663.0	513.3	431.8	310.7	117.7	64.1	36.3	19.7
-7.5°	1207.2	1044.3	845.5	691.3	553.4	465.6	334.0	136.7	75.4	42.2	22.2
-10°	1207.4	1032.8	840.9	690.8	563.1	479.8	348.1	153.3	85.4	47.4	24.3
-12.5°	1198.8	1013.2	832.4	685.6	564.8	475.9	337.9	164.2	93.8	51.7	26.2
-15°	1181.0	985.8	820.1	675.6	563.6	469.5	325.3	171.4	100.4	55.4	27.6
-17.5°	1144.8	950.5	804.5	660.7	559.4	460.8	310.8	176.2	105.2	58.3	29.1
-20°	1059.4	899.6	785.4	641.0	551.8	449.8	295.1	178.5	108.2	60.0	30.6



REPORT NUMBER: P731463 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-4S-CV2

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	969.6	841.0	736.7	628.1	539.2	436.6	278.7	178.1	109.2	60.4	31.5
-25°	877.4	781.1	684.1	598.4	521.1	411.9	269.1	174.9	108.0	59.4	31.8
-27.5°	803.1	721.3	633.4	568.7	491.5	388.1	264.1	173.1	105.5	56.8	31.6
-30°	736.4	665.9	596.6	537.9	461.4	354.3	255.5	168.5	102.5	55.1	30.6
-32.5°	684.2	614.6	564.0	503.6	424.2	320.0	237.1	161.0	97.3	54.0	29.9
-35°	642.5	579.8	531.9	469.4	384.2	292.9	214.4	150.4	89.9	51.9	28.9
-37.5°	601.5	553.3	495.1	431.1	344.4	263.5	193.5	133.9	80.4	48.8	27.2
-40°	572.6	522.5	462.1	388.1	308.4	231.8	170.9	117.9	74.1	44.8	24.9
-42.5°	542.1	485.3	420.2	346.0	271.5	205.2	147.4	101.0	67.1	41.0	21.9
-45°	500.7	442.8	374.3	304.2	233.7	177.1	127.9	84.6	59.2	36.8	19.4
-47.5°	455.3	392.5	328.2	261.6	201.5	149.4	107.6	75.2	50.9	31.8	18.0
-50°	401.2	342.4	282.3	224.1	169.0	126.5	89.1	65.2	43.8	25.6	16.3
-52.5°	351.6	293.5	239.4	187.1	141.9	102.9	77.3	54.7	36.1	21.8	14.3
-55°	301.2	246.9	197.8	153.5	114.4	86.8	64.8	45.3	27.8	18.9	12.3
-57.5°	250.8	201.0	159.0	120.6	93.4	72.3	52.7	35.2	22.9	15.7	12.0
-60°	199.0	157.9	120.1	96.6	76.7	57.7	40.5	26.4	18.8	12.8	11.6
-62.5°	150.1	116.8	96.3	77.7	59.7	43.0	28.9	21.2	14.4	12.4	11.2
-65°	112.7	92.9	74.9	58.0	42.1	29.8	22.5	15.6	13.0	11.9	10.9
-67.5°	83.9	67.3	51.9	37.4	29.2	22.5	15.8	13.5	12.4	11.4	10.8
-70°	54.0	40.4	32.9	27.2	21.2	16.0	14.1	12.8	11.8	11.2	10.8
-72.5°	32.9	28.3	23.6	18.8	16.5	14.6	13.2	12.2	11.5	11.0	10.7
-75°	22.4	20.0	18.1	16.2	14.5	13.2	12.3	11.6	11.0	10.7	10.3
-77.5°	17.9	16.3	14.8	13.7	12.7	12.0	11.3	10.9	10.5	10.2	9.8
-80°	14.1	13.2	12.4	11.7	11.1	10.7	10.4	10.1	9.8	9.6	9.3
-82.5°	10.8	10.5	10.3	10.2	10.0	9.8	9.6	9.4	9.2	8.9	8.7
-85°	8.7	8.8	9.0	9.2	9.0	8.9	8.8	8.6	8.5	8.3	8.2
-87.5°	7.4	7.7	7.9	8.1	8.1	8.0	7.9	7.9	7.8	7.7	7.6
-90°	5.4	5.4	5.4	5.4	5.8	6.3	6.7	7.1	7.1	7.1	7.1



REPORT NUMBER: P731463 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-4S-CV2

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	7.1	7.1	7.1	7.1	7.1	7.1	7.1
87.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1
85°	7.1	7.1	7.1	7.1	7.1	7.1	7.1
82.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1
80°	7.2	7.1	7.1	7.1	7.1	7.1	7.1
77.5°	7.6	7.2	7.1	7.1	7.1	7.1	7.1
75°	8.1	7.6	7.2	7.1	7.1	7.1	7.1
72.5°	8.5	8.0	7.5	7.1	7.1	7.1	7.1
70°	8.9	8.4	7.8	7.1	7.1	7.1	7.1
67.5°	8.9	8.7	8.0	7.4	7.1	7.1	7.1
65°	8.9	8.9	8.3	7.6	7.1	7.1	7.1
62.5°	8.9	8.9	8.6	7.8	7.1	7.1	7.1
60°	8.9	8.9	8.9	8.0	7.1	7.1	7.1
57.5°	8.9	8.9	8.9	8.2	7.2	7.1	7.1
55°	8.9	8.9	8.9	8.4	7.4	7.1	7.1
52.5°	8.9	8.9	8.9	8.6	7.5	7.1	7.1
50°	8.9	8.9	8.9	8.8	7.6	7.1	7.1
47.5°	8.9	8.9	8.9	8.9	7.7	7.1	7.1
45°	8.9	8.9	8.9	8.9	7.8	7.1	7.1
42.5°	8.9	8.9	8.9	8.9	8.0	7.1	7.1
40°	8.9	8.9	8.9	8.9	8.1	7.1	7.1
37.5°	8.9	8.9	8.9	8.9	8.2	7.1	7.1
35°	8.9	8.9	8.9	8.9	8.2	7.1	7.1
32.5°	9.0	8.9	8.9	8.9	8.3	7.1	7.1
30°	9.1	8.9	8.9	8.9	8.4	7.1	7.1
27.5°	9.3	8.9	8.9	8.9	8.5	7.1	7.1
25°	9.6	8.9	8.9	8.9	8.6	7.1	7.1
22.5°	9.8	8.9	8.9	8.9	8.6	7.1	7.1
20°	10.0	9.1	8.9	8.9	8.7	7.1	7.1
17.5°	10.2	9.2	8.9	8.9	8.7	7.1	7.1
15°	10.4	9.4	8.9	8.9	8.8	7.1	7.1
12.5°	10.5	9.6	8.9	8.9	8.8	7.1	7.1
10°	10.6	9.8	8.9	8.9	8.8	7.1	7.1
7.5°	10.7	10.1	8.9	8.9	8.9	7.1	7.1
5°	10.7	10.3	8.9	8.9	8.9	7.1	7.1
2.5°	10.7	10.5	8.9	8.9	8.9	7.1	7.1
0°	10.7	10.7	8.9	8.9	8.9	7.1	7.1
-2.5°	11.6	10.7	8.9	8.9	8.9	7.1	7.1
-5°	12.6	10.7	8.9	8.9	8.9	7.1	7.1
-7.5°	13.4	10.6	8.9	8.9	8.9	7.1	7.1
-10°	14.1	10.6	8.9	8.9	8.8	7.1	7.1
-12.5°	14.7	10.5	8.9	8.9	8.8	7.1	7.1
-15°	15.2	10.4	8.9	8.9	8.8	7.1	7.1
-17.5°	15.4	10.3	8.9	8.9	8.7	7.1	7.1
-20°	15.7	10.1	8.9	8.9	8.7	7.1	7.1



REPORT NUMBER: P731463 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-4S-CV2

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	16.4	10.0	8.9	8.9	8.6	7.1	7.1
-25°	16.7	10.1	8.9	8.9	8.6	7.1	7.1
-27.5°	16.6	10.3	8.9	8.9	8.5	7.1	7.1
-30°	16.1	10.3	8.9	8.9	8.4	7.1	7.1
-32.5°	15.2	10.2	9.0	8.9	8.3	7.1	7.1
-35°	14.8	10.0	9.1	8.9	8.2	7.1	7.1
-37.5°	14.6	9.8	9.1	8.9	8.2	7.1	7.1
-40°	14.1	9.9	9.2	8.9	8.1	7.1	7.1
-42.5°	13.4	10.0	9.2	8.9	8.0	7.1	7.1
-45°	12.5	10.0	9.3	9.0	7.8	7.1	7.1
-47.5°	11.3	10.0	9.3	9.0	7.7	7.1	7.1
-50°	11.1	9.9	9.4	8.9	7.6	7.1	7.1
-52.5°	10.9	9.8	9.4	8.8	7.5	7.1	7.1
-55°	10.8	9.9	9.5	8.6	7.4	7.1	7.1
-57.5°	10.6	9.9	9.5	8.4	7.2	7.1	7.1
-60°	10.4	10.0	9.5	8.3	7.1	7.1	7.1
-62.5°	10.4	10.0	9.3	8.1	7.1	7.1	7.1
-65°	10.5	10.0	9.1	7.9	7.1	7.1	7.1
-67.5°	10.5	9.9	8.8	7.7	7.1	7.1	7.1
-70°	10.5	9.6	8.5	7.5	7.1	7.1	7.1
-72.5°	10.2	9.2	8.3	7.4	7.1	7.1	7.1
-75°	9.8	8.9	8.0	7.4	7.1	7.1	7.1
-77.5°	9.4	8.5	7.8	7.4	7.1	7.1	7.1
-80°	8.9	8.2	7.7	7.3	7.1	7.1	7.1
-82.5°	8.5	8.0	7.6	7.3	7.1	7.1	7.1
-85°	8.0	7.7	7.4	7.2	7.1	7.1	7.1
-87.5°	7.6	7.4	7.3	7.2	7.1	7.1	7.1
-90°	7.1	7.1	7.1	7.1	7.1	7.1	7.1

(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

