

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: P731487 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-40-80-4S-CV2**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731487 (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-40-80-4S-CV2
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 4S BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

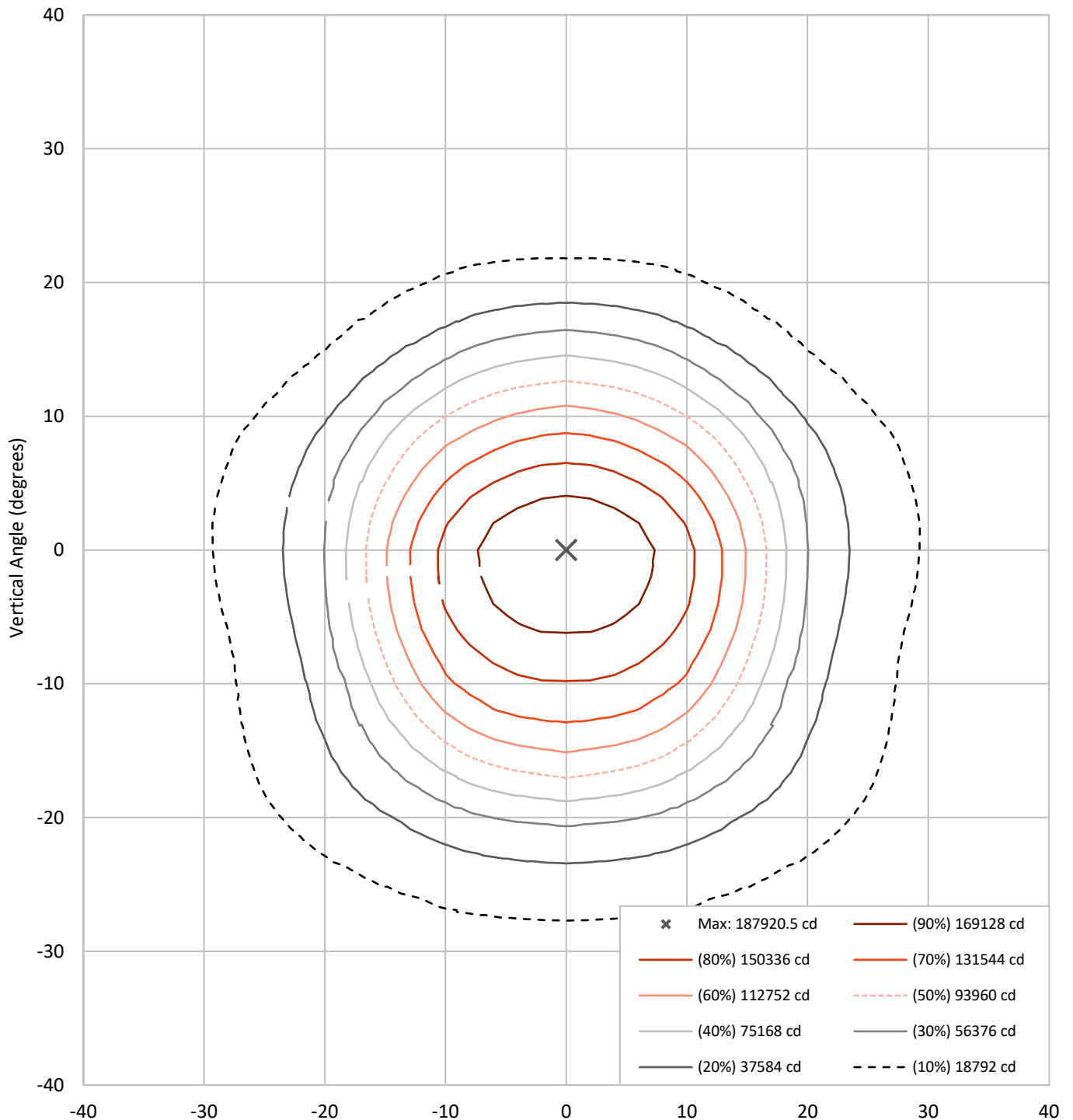
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	60143.1 lumens	Max Intensity:	187920.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	107.4 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:	33002.4 lumens	Field Lumens:	52877 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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CATALOG NUMBER: EPH-LS-08-0530N-40-80-4S-CV2

Iso-Candela Plot





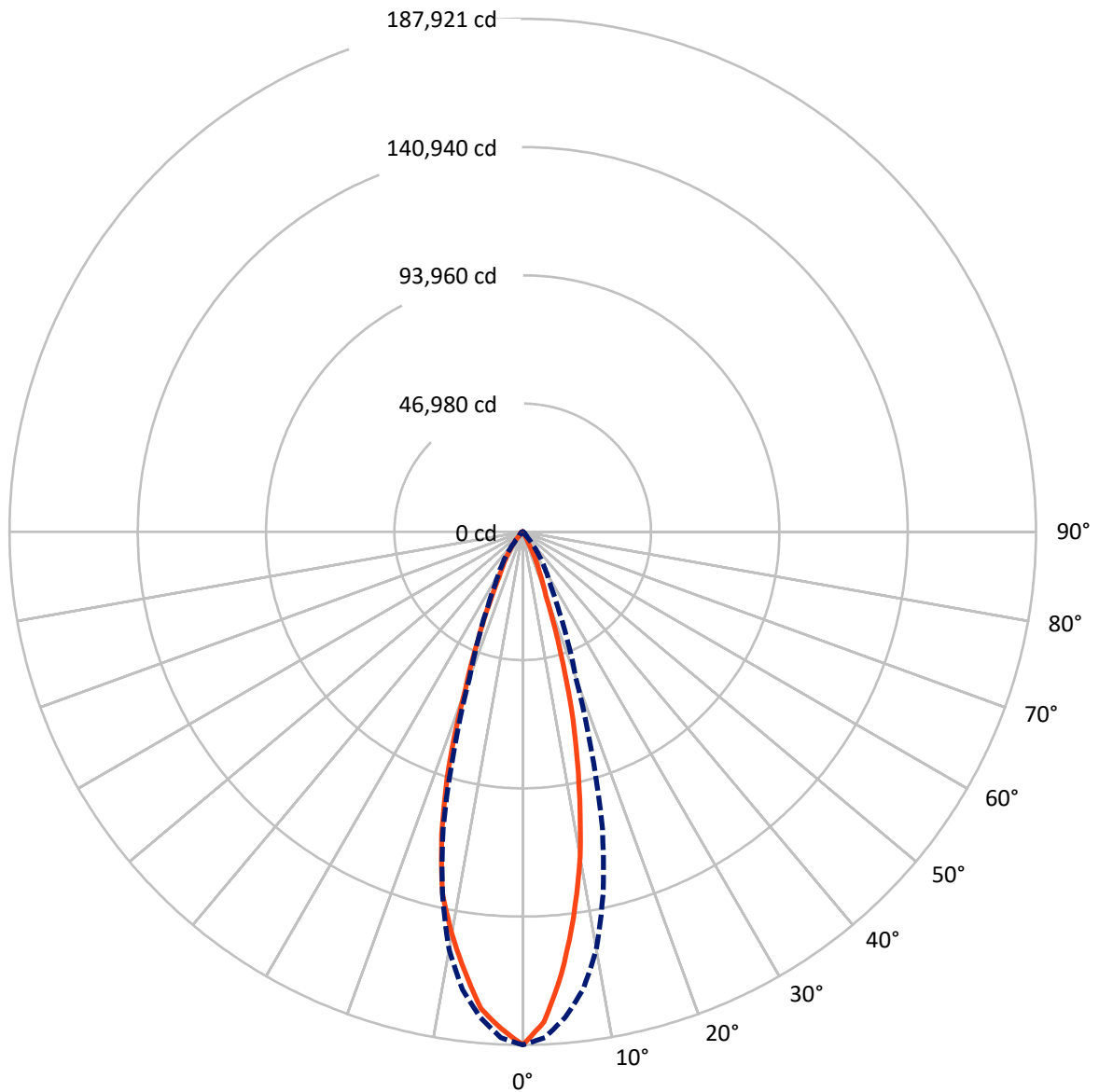
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Lumen Table

90	0.1	0.4	0.5	0.5	0.4	0.5	0.5	0.4	0.1									
80	0.1	0.4	0.5	0.5	0.4	0.5	0.5	0.4	0.1									
70	0.2	0.1	0.2	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.3	0.2	0.1	0.2		
60		0.1	0.3	0.7	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.7	0.3	0.1			
50	0.2	0.1	0.3	0.5	0.6	0.7	1.0	1.2	1.2	1.0	0.7	0.6	0.5	0.3	0.1	0.2		
40		0.2	0.7	1.5	2.5	5.7	11.4	15.6	15.6	11.4	5.7	2.5	1.5	0.7	0.2			
30	0.2	0.3	2.2	5.9	22.0	80.2	189.9	321.3	321.3	189.9	80.2	22.0	5.9	2.2	0.3	0.2		
20		0.7	4.9	15.8	97.4	337.1	1034.5	1954.5	1954.5	1034.5	337.1	97.4	15.8	4.9	0.7			
10	0.3	1.4	8.4	29.9	226.8	807.7	2679.4	4527.3	4527.3	2679.4	807.7	226.8	29.9	8.4	1.4	0.3		
0		2.3	11.2	35.4	236.4	833.0	3007.3	4970.4	4970.4	3007.3	833.0	236.4	35.4	11.2	2.3			
-10	0.4	2.7	11.4	30.5	184.4	614.1	1796.0	3137.7	3137.7	1796.0	614.1	184.4	30.5	11.4	2.7	0.4		
-20		2.5	9.8	21.0	79.7	291.4	606.6	907.8	907.8	606.6	291.4	79.7	21.0	9.8	2.5			
-30	0.3	1.9	7.5	14.6	27.4	78.7	178.7	252.5	252.5	178.7	78.7	27.4	14.6	7.5	1.9	0.3		
-40		1.2	5.0	11.0	18.0	27.3	40.1	52.5	52.5	40.1	27.3	18.0	11.0	5.0	1.2			
-50	0.2	0.6	2.6	7.3	13.3	19.2	24.7	27.9	27.9	24.7	19.2	13.3	7.3	2.6	0.6	0.2		
-60		0.2	1.0	3.0	6.4	11.1	15.9	18.7	18.7	15.9	11.1	6.4	3.0	1.0	0.2			
-70	0.2	0.2	1.0	3.0	6.4	11.1	15.9	18.7	18.7	15.9	11.1	6.4	3.0	1.0	0.2	0.2		
-80		0.2	0.7	2.4	6.3	8.9	6.3	2.4	0.7	0.2								
-90	0.2	0.7	2.4	6.3	8.9	6.3	2.4	0.7	0.2									

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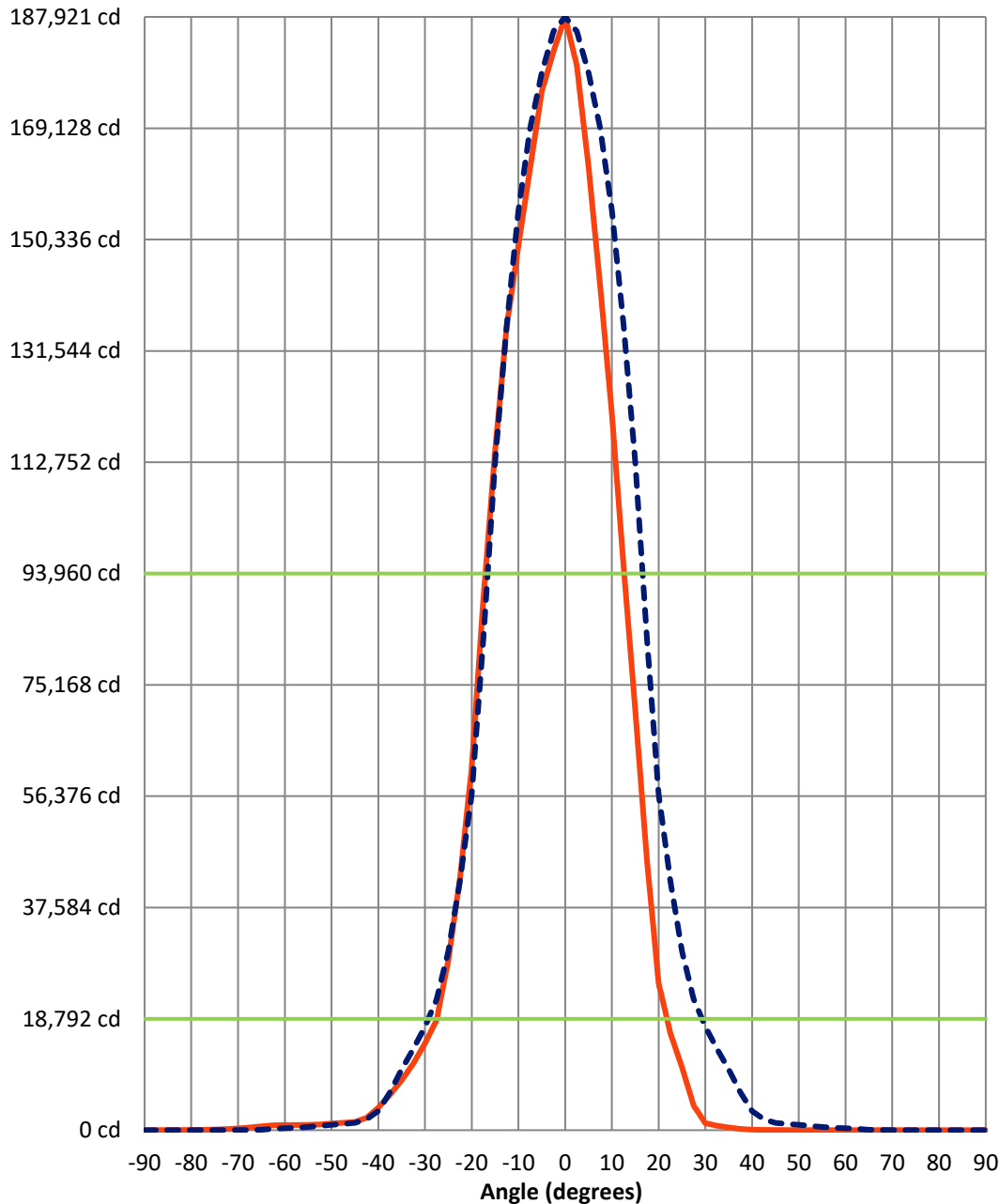
Luminous Intensity Polar Plot



— 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: 33002.4
 Efficiency: 54.9%

Field:
 H Angle: 58.6°
 V Angle: 49.3°
 Lumens: 52877
 Efficiency: 87.9%

Spill:
 Lumens: 7266
 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°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
87.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
85°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
82.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.7	6.6
80°	6.6	6.6	6.6	6.6	6.6	6.6	6.7	6.9	6.9	6.9	6.6
77.5°	6.6	6.6	6.6	6.6	6.6	6.7	7.1	7.3	7.2	7.1	6.7
75°	6.6	6.6	6.6	6.6	6.7	7.1	7.5	7.7	7.6	7.1	6.7
72.5°	6.6	6.6	6.6	6.6	6.9	7.4	7.9	8.0	7.6	7.2	6.8
70°	6.6	6.6	6.6	6.6	7.2	7.8	8.3	8.0	7.6	7.2	7.3
67.5°	6.6	6.6	6.6	6.8	7.5	8.1	8.3	8.1	7.7	7.7	7.9
65°	6.6	6.6	6.6	7.1	7.8	8.3	8.3	8.1	7.9	8.0	8.3
62.5°	6.6	6.6	6.6	7.2	8.0	8.3	8.3	8.2	8.1	8.3	8.3
60°	6.6	6.6	6.6	7.4	8.3	8.3	8.3	8.3	8.3	8.3	8.3
57.5°	6.6	6.6	6.7	7.6	8.3	8.3	8.3	8.3	8.3	8.3	8.3
55°	6.6	6.6	6.8	7.8	8.3	8.3	8.3	8.3	8.3	8.3	8.3
52.5°	6.6	6.6	7.0	8.0	8.3	8.3	8.3	8.3	8.3	8.3	8.3
50°	6.6	6.6	7.1	8.2	8.3	8.3	8.3	8.3	8.3	8.3	9.0
47.5°	6.6	6.6	7.2	8.3	8.3	8.3	8.3	8.3	8.3	8.3	9.7
45°	6.6	6.6	7.3	8.3	8.3	8.3	8.3	8.3	8.4	8.8	10.4
42.5°	6.6	6.6	7.4	8.3	8.3	8.3	8.3	8.4	8.5	9.2	10.8
40°	6.6	6.6	7.5	8.3	8.3	8.3	8.3	8.5	8.7	9.6	11.1
37.5°	6.6	6.6	7.6	8.3	8.3	8.3	8.3	8.6	9.2	10.2	11.5
35°	6.6	6.6	7.7	8.3	8.3	8.3	8.3	8.8	9.6	10.7	11.8
32.5°	6.6	6.6	7.8	8.3	8.3	8.3	8.3	9.1	10.1	11.2	12.6
30°	6.6	6.6	7.8	8.3	8.3	8.3	8.5	9.3	10.5	11.7	13.6
27.5°	6.6	6.6	7.9	8.3	8.3	8.3	8.7	9.7	10.9	12.2	14.9
25°	6.6	6.6	8.0	8.3	8.3	8.3	8.9	10.0	11.3	13.0	16.6
22.5°	6.6	6.6	8.0	8.3	8.3	8.3	9.1	10.4	11.7	14.2	20.0
20°	6.6	6.6	8.1	8.3	8.3	8.4	9.3	10.7	12.1	15.5	23.5
17.5°	6.6	6.6	8.1	8.3	8.3	8.6	9.5	11.0	12.4	16.8	27.1
15°	6.6	6.6	8.2	8.3	8.3	8.8	9.6	11.3	12.8	18.2	30.6
12.5°	6.6	6.6	8.2	8.3	8.3	8.9	9.7	11.6	13.7	19.6	34.1
10°	6.6	6.6	8.2	8.3	8.3	9.1	9.8	12.0	15.1	22.8	38.9
7.5°	6.6	6.6	8.3	8.3	8.3	9.3	9.9	12.3	16.7	26.3	46.8
5°	6.6	6.6	8.3	8.3	8.3	9.5	9.9	12.7	18.3	29.9	54.7
2.5°	6.6	6.6	8.3	8.3	8.3	9.7	9.9	13.0	20.0	33.3	62.4
0°	6.6	6.6	8.3	8.3	8.3	9.9	9.9	13.3	21.5	36.5	69.6
-2.5°	6.6	6.6	8.3	8.3	8.3	9.9	10.8	15.9	27.7	48.3	90.0
-5°	6.6	6.6	8.3	8.3	8.3	9.9	11.7	18.3	33.7	59.6	109.3
-7.5°	6.6	6.6	8.3	8.3	8.3	9.8	12.4	20.6	39.1	70.0	126.9
-10°	6.6	6.6	8.2	8.3	8.3	9.8	13.1	22.6	44.0	79.3	142.4
-12.5°	6.6	6.6	8.2	8.3	8.3	9.7	13.7	24.3	48.0	87.2	152.5
-15°	6.6	6.6	8.2	8.3	8.3	9.6	14.1	25.6	51.4	93.2	159.2
-17.5°	6.6	6.6	8.1	8.3	8.3	9.5	14.3	27.0	54.1	97.7	163.7
-20°	6.6	6.6	8.1	8.3	8.3	9.4	14.6	28.4	55.7	100.5	165.8



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 CATALOG NUMBER: EPH-LS-08-0530N-40-80-4S-CV2

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	6.6	6.6	8.0	8.3	8.3	9.3	15.2	29.3	56.1	101.4	165.4
-25°	6.6	6.6	8.0	8.3	8.3	9.4	15.5	29.6	55.1	100.3	162.4
-27.5°	6.6	6.6	7.9	8.3	8.3	9.6	15.4	29.3	52.8	97.9	160.7
-30°	6.6	6.6	7.8	8.3	8.3	9.6	15.0	28.5	51.2	95.1	156.5
-32.5°	6.6	6.6	7.8	8.3	8.4	9.5	14.1	27.8	50.1	90.3	149.5
-35°	6.6	6.6	7.7	8.3	8.5	9.3	13.7	26.8	48.2	83.5	139.6
-37.5°	6.6	6.6	7.6	8.3	8.5	9.2	13.5	25.2	45.3	74.7	124.4
-40°	6.6	6.6	7.5	8.3	8.5	9.2	13.1	23.1	41.6	68.8	109.5
-42.5°	6.6	6.6	7.4	8.3	8.6	9.3	12.4	20.3	38.0	62.3	93.8
-45°	6.6	6.6	7.3	8.4	8.6	9.3	11.6	18.0	34.2	55.0	78.6
-47.5°	6.6	6.6	7.2	8.4	8.7	9.2	10.5	16.7	29.5	47.2	69.8
-50°	6.6	6.6	7.1	8.3	8.7	9.2	10.3	15.1	23.8	40.6	60.5
-52.5°	6.6	6.6	7.0	8.2	8.8	9.1	10.2	13.3	20.2	33.5	50.8
-55°	6.6	6.6	6.8	8.0	8.8	9.1	10.0	11.4	17.5	25.9	42.0
-57.5°	6.6	6.6	6.7	7.9	8.9	9.2	9.8	11.1	14.5	21.3	32.7
-60°	6.6	6.6	6.6	7.7	8.9	9.2	9.6	10.7	11.9	17.5	24.6
-62.5°	6.6	6.6	6.6	7.5	8.7	9.3	9.6	10.3	11.5	13.4	19.7
-65°	6.6	6.6	6.6	7.4	8.4	9.3	9.7	10.0	11.0	12.1	14.5
-67.5°	6.6	6.6	6.6	7.2	8.2	9.2	9.7	10.0	10.5	11.5	12.5
-70°	6.6	6.6	6.6	7.0	7.9	8.9	9.8	10.0	10.4	11.0	11.9
-72.5°	6.6	6.6	6.6	6.9	7.7	8.6	9.4	9.9	10.2	10.6	11.3
-75°	6.6	6.6	6.6	6.9	7.4	8.3	9.1	9.6	9.9	10.2	10.7
-77.5°	6.6	6.6	6.6	6.9	7.3	7.9	8.7	9.1	9.4	9.7	10.1
-80°	6.6	6.6	6.6	6.8	7.2	7.7	8.3	8.6	8.9	9.1	9.4
-82.5°	6.6	6.6	6.6	6.8	7.0	7.4	7.9	8.1	8.3	8.5	8.7
-85°	6.6	6.6	6.6	6.7	6.9	7.1	7.5	7.6	7.8	7.9	8.0
-87.5°	6.6	6.6	6.6	6.7	6.7	6.9	7.0	7.1	7.2	7.3	7.3
-90°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6



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 CATALOG NUMBER: EPH-LS-08-0530N-40-80-4S-CV2

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.2	5.8	5.4
87.5°	6.2	5.8	5.4	5.0	5.0	5.0	5.0	5.0	4.6	4.2	3.7
85°	6.2	5.8	5.5	5.2	5.3	5.2	5.1	5.0	4.8	4.6	4.5
82.5°	6.4	6.2	6.1	6.2	6.0	5.8	5.4	5.0	5.0	5.0	5.0
80°	6.5	6.6	6.6	6.6	6.3	5.9	5.5	5.1	5.0	5.1	5.1
77.5°	6.6	6.6	6.6	6.6	6.3	6.0	5.9	5.9	5.9	5.7	5.5
75°	6.6	6.6	6.7	6.7	6.5	6.5	6.6	6.6	6.4	6.0	5.6
72.5°	6.9	7.1	7.1	6.8	6.6	6.6	6.6	6.6	6.8	6.9	6.8
70°	7.6	7.6	7.3	6.9	6.6	6.9	7.7	8.6	9.2	9.2	9.5
67.5°	8.2	7.8	7.4	7.1	7.9	8.9	9.9	11.2	12.6	13.1	13.8
65°	8.3	7.9	7.9	8.5	9.8	11.0	12.5	14.2	17.8	20.0	21.0
62.5°	8.3	8.2	8.6	9.9	11.6	13.2	15.8	19.8	25.2	28.9	29.1
60°	8.3	8.4	9.7	11.5	13.3	15.5	19.4	25.5	33.6	39.7	36.2
57.5°	8.3	9.2	11.2	13.0	14.8	17.3	23.2	31.1	39.4	48.2	41.2
55°	8.7	10.6	12.4	14.1	16.4	19.5	25.7	33.1	42.3	44.8	36.8
52.5°	9.8	11.7	13.2	15.2	18.0	21.0	25.3	31.9	34.8	35.5	30.6
50°	10.8	12.3	13.8	16.1	19.0	21.6	22.9	26.8	27.9	26.5	23.9
47.5°	11.4	12.8	14.2	16.8	19.7	21.9	21.9	22.1	21.7	21.4	17.6
45°	11.8	13.3	14.7	17.5	20.7	22.6	21.5	18.4	21.0	20.3	19.4
42.5°	12.3	13.7	16.1	18.4	22.5	23.7	22.0	22.8	23.5	24.5	24.9
40°	12.7	14.2	18.1	22.6	24.9	25.5	28.2	30.3	29.4	32.2	33.8
37.5°	13.0	16.4	21.9	30.2	27.6	31.2	36.3	44.6	44.9	42.3	48.6
35°	13.4	19.0	31.3	40.2	38.0	40.2	53.8	64.7	67.9	64.3	68.4
32.5°	15.0	21.9	43.0	52.2	57.5	60.2	75.8	92.1	104.4	106.8	96.8
30°	18.0	32.6	56.4	66.8	82.2	97.1	107.8	127.6	152.9	172.7	180.8
27.5°	22.0	45.5	70.3	89.2	112.6	138.0	156.6	181.3	222.6	258.0	287.1
25°	26.2	63.2	86.0	116.6	151.4	184.3	213.0	254.1	308.7	367.5	469.6
22.5°	35.7	83.3	109.6	146.8	192.8	234.0	281.7	340.2	410.1	490.8	680.2
20°	51.1	103.2	137.9	180.6	237.3	286.2	353.4	428.1	523.4	695.4	1017.0
17.5°	67.5	124.5	166.9	220.5	290.9	352.6	428.0	515.3	641.6	916.8	1550.2
15°	84.6	146.9	194.6	262.7	349.5	437.5	528.5	623.6	804.3	1230.0	2229.2
12.5°	101.8	170.0	220.9	306.4	411.6	526.1	634.7	755.7	1017.0	1768.4	3235.0
10°	118.8	193.2	245.8	350.5	475.6	616.7	740.0	882.4	1238.1	2256.1	4134.4
7.5°	146.8	223.4	272.4	394.0	540.1	707.3	843.3	1003.2	1454.0	2681.3	4962.8
5°	176.3	260.4	314.8	447.2	603.7	788.1	936.6	1117.0	1658.5	3038.9	5739.9
2.5°	204.6	296.1	356.2	498.3	663.3	850.9	995.9	1180.8	1767.8	3206.0	6219.8
0°	230.4	329.8	396.1	545.2	717.6	906.5	1049.0	1236.3	1834.5	3238.2	6373.7
-2.5°	261.7	366.8	437.4	582.5	747.3	939.2	1082.7	1278.4	1903.5	3419.3	6401.5
-5°	288.5	401.0	476.7	615.7	772.2	964.7	1110.8	1311.3	1935.8	3501.7	6266.9
-7.5°	310.2	432.4	513.9	641.9	785.1	969.8	1121.1	1316.7	1913.3	3459.3	5991.5
-10°	323.3	445.6	522.9	641.5	780.9	959.0	1121.2	1312.0	1848.7	3283.2	5604.7
-12.5°	313.8	441.9	524.5	636.7	772.9	940.9	1113.2	1296.9	1738.6	2958.1	5152.2
-15°	302.0	436.0	523.4	627.4	761.5	915.4	1096.6	1271.3	1567.1	2453.9	4593.2
-17.5°	288.6	427.9	519.5	613.6	747.0	882.6	1063.0	1204.5	1389.6	2090.8	3948.8
-20°	274.0	417.6	512.5	595.2	729.3	835.4	983.7	1129.5	1298.3	1778.0	3082.1



REPORT NUMBER: P731487 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	258.7	405.4	500.7	583.3	684.1	780.9	900.3	1043.2	1197.9	1389.3	2160.2
-25°	249.8	382.5	483.9	555.7	635.3	725.4	814.7	946.7	1093.1	1247.2	1652.9
-27.5°	245.2	360.4	456.4	528.1	588.2	669.9	745.8	851.1	986.9	1118.6	1247.2
-30°	237.2	329.0	428.4	499.6	554.0	618.4	683.8	769.2	889.7	1005.4	1112.0
-32.5°	220.1	297.1	393.9	467.7	523.8	570.7	635.4	711.6	804.3	904.8	990.6
-35°	199.1	272.0	356.8	435.9	494.0	538.4	596.6	660.8	728.8	815.9	918.6
-37.5°	179.6	244.7	319.8	400.3	459.8	513.8	558.6	616.3	675.0	739.5	842.2
-40°	158.7	215.2	286.4	360.4	429.2	485.2	531.7	574.9	626.2	690.7	759.3
-42.5°	136.9	190.5	252.1	321.2	390.2	450.7	503.4	543.3	587.1	642.7	703.8
-45°	118.8	164.4	217.0	282.5	347.6	411.2	465.0	515.2	557.3	598.2	650.9
-47.5°	99.9	138.8	187.2	242.9	304.8	364.5	422.8	478.2	531.7	569.9	602.2
-50°	82.7	117.4	156.9	208.1	262.1	318.0	372.6	437.5	494.1	542.3	579.9
-52.5°	71.7	95.4	131.7	173.8	222.3	272.6	326.5	386.2	447.6	504.9	548.9
-55°	60.1	80.5	106.2	142.6	183.7	229.3	279.7	334.5	390.4	447.9	504.2
-57.5°	48.9	67.1	86.6	112.0	147.7	186.7	232.9	281.5	332.9	385.2	437.2
-60°	37.7	53.6	71.2	89.7	111.5	146.6	184.9	227.6	273.3	320.2	367.2
-62.5°	26.9	40.0	55.4	72.2	89.5	108.5	139.4	175.0	211.9	250.8	291.6
-65°	20.9	27.7	39.1	53.8	69.7	86.3	104.6	124.7	155.4	185.6	214.3
-67.5°	14.7	21.0	27.1	34.7	48.2	62.5	77.9	94.6	112.4	130.0	150.6
-70°	13.1	14.8	19.7	25.2	30.5	37.5	50.1	63.6	77.4	90.7	105.4
-72.5°	12.3	13.6	15.3	17.5	21.9	26.3	30.5	34.7	42.9	53.8	64.6
-75°	11.4	12.2	13.5	15.1	16.8	18.6	20.8	24.4	27.9	31.2	34.5
-77.5°	10.5	11.1	11.8	12.7	13.7	15.1	16.6	18.2	19.5	20.9	22.3
-80°	9.6	9.9	10.3	10.9	11.5	12.2	13.0	13.9	14.6	15.3	16.2
-82.5°	8.9	9.1	9.3	9.4	9.5	9.7	10.0	10.5	10.9	11.4	11.8
-85°	8.2	8.3	8.4	8.5	8.3	8.2	8.0	8.0	8.2	8.4	8.5
-87.5°	7.4	7.4	7.5	7.6	7.4	7.1	6.9	6.6	6.5	6.4	6.4
-90°	6.2	5.8	5.4	5.0	5.0	5.0	5.0	5.0	4.6	4.2	3.7



REPORT NUMBER: P731487 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-4S-CV2

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	5.0	5.0	5.0	5.0	5.0	5.8	6.7	7.5	8.3	9.1	10.0
87.5°	3.3	3.3	3.3	3.3	3.3	2.9	2.5	2.1	1.7	1.7	1.7
85°	4.4	4.2	3.9	3.6	3.3	3.2	3.2	3.2	3.2	2.9	2.5
82.5°	5.0	4.6	4.2	3.8	3.3	3.3	3.3	3.3	3.3	2.9	2.5
80°	5.0	4.6	4.2	3.8	3.4	3.3	3.3	3.3	3.3	2.9	2.5
77.5°	5.1	4.7	4.5	4.3	4.2	4.1	3.9	3.7	3.3	2.9	2.5
75°	5.2	5.1	5.2	5.2	5.1	4.7	4.3	3.8	3.4	3.3	3.2
72.5°	6.5	6.2	6.2	6.3	6.3	6.1	5.8	5.3	4.8	4.7	4.8
70°	9.7	9.9	10.0	9.8	9.3	8.5	7.8	7.2	6.4	6.3	6.4
67.5°	14.7	14.9	14.4	13.3	11.6	10.1	9.5	8.8	8.1	7.9	8.1
65°	21.1	19.5	17.8	15.9	13.8	11.5	10.7	10.2	9.7	9.7	10.2
62.5°	27.3	22.2	17.9	15.2	13.1	11.4	10.7	9.9	9.2	8.9	9.2
60°	30.0	21.3	15.5	13.7	11.9	10.2	9.2	8.5	7.7	7.2	7.5
57.5°	30.1	20.9	14.3	12.2	10.4	8.9	8.0	7.5	7.0	6.6	7.1
55°	26.8	18.5	12.2	10.5	9.4	8.7	8.2	8.1	7.9	7.7	8.0
52.5°	21.5	15.5	11.3	9.7	9.8	9.8	9.8	9.8	10.0	10.3	10.7
50°	17.1	13.2	12.0	11.3	11.7	11.8	11.5	12.2	13.0	13.5	13.9
47.5°	15.7	14.4	14.5	14.2	14.8	15.9	16.2	16.7	17.9	18.7	19.2
45°	17.5	18.7	19.5	20.9	21.7	23.6	24.3	24.3	27.0	28.8	29.8
42.5°	24.4	26.5	29.1	31.7	33.1	35.5	38.0	39.3	43.4	46.7	48.0
40°	36.8	38.1	43.5	46.9	49.4	52.4	60.1	65.2	73.1	88.0	98.8
37.5°	54.2	58.1	61.4	66.1	76.5	81.6	106.2	128.5	143.7	180.8	201.7
35°	79.3	90.2	86.4	107.7	133.9	166.8	202.7	256.2	298.5	348.6	394.8
32.5°	124.4	151.0	176.7	201.3	260.3	354.9	357.5	457.5	524.4	605.5	676.9
30°	196.8	290.9	409.3	448.5	614.5	800.1	748.6	902.0	1054.0	1144.4	1456.6
27.5°	388.3	600.5	835.8	1134.8	1444.1	1763.1	1974.3	2048.3	2817.3	3382.7	4118.8
25°	664.4	1036.6	1694.0	2178.3	2721.4	3429.8	3839.0	4389.9	5672.6	7271.0	8512.6
22.5°	1058.9	1709.2	2577.8	3310.6	4124.7	5079.3	5942.7	7263.3	9258.0	11439.9	13296.0
20°	1500.9	2339.4	3439.9	4537.9	5605.0	6849.1	8351.3	11048.0	14130.1	17550.3	20642.3
17.5°	2316.5	3141.0	4550.4	6051.4	7567.5	9066.1	12369.6	16363.4	21188.1	26256.0	30757.2
15°	3482.0	4816.4	6214.3	8199.0	10722.7	13602.5	17786.2	24791.0	32284.3	40193.6	49622.6
12.5°	5002.9	6937.6	9034.5	11332.4	14754.2	20011.1	26951.2	35501.4	46227.0	58092.9	71510.1
10°	6555.0	9345.1	12232.9	15514.8	20024.6	26795.8	35758.6	46464.3	63331.9	79957.1	93960.3
7.5°	7817.0	11068.6	14712.0	19071.6	24949.7	33200.1	44276.1	59748.4	79863.9	99644.9	115310.5
5°	9001.0	12572.9	16365.9	20820.2	27906.7	37855.9	51194.7	70498.5	94563.3	115600.8	132387.2
2.5°	9859.8	13612.0	17535.9	22068.2	30147.5	40686.2	55330.6	79275.6	106974.3	128528.4	147775.8
0°	10240.0	13711.8	17465.4	22115.6	30221.1	42129.8	56764.8	82982.0	112719.1	135891.2	155225.2
-2.5°	9768.6	13139.3	17012.7	21555.6	29680.8	41120.8	56238.2	82564.6	112404.0	135904.1	154965.8
-5°	9269.9	12465.4	16061.1	20260.4	27669.3	38306.5	53730.5	78884.4	107518.6	131144.4	149738.8
-7.5°	8738.3	11662.9	14879.9	18647.4	25220.4	35456.5	49778.6	71008.6	97773.8	121829.0	139317.0
-10°	8130.5	10792.9	14175.9	18169.0	23891.1	32789.0	44633.3	61641.1	86710.2	109060.0	128260.7
-12.5°	7773.6	10613.5	13994.0	17661.7	22277.4	30118.8	40895.5	55403.5	72564.1	93324.6	110409.4
-15°	7314.9	10189.5	13542.1	16983.2	21255.6	27378.0	35886.6	46542.7	59600.4	73590.5	88755.0
-17.5°	6560.9	9433.8	12133.6	15363.2	19421.2	24258.3	30372.8	38642.7	47306.5	57219.1	66291.9
-20°	5319.0	7639.6	10192.9	13235.9	16724.3	20389.8	24473.1	30107.9	35603.6	42543.4	48114.7



REPORT NUMBER: P731487 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-4S-CV2

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3826.8	5788.3	8000.5	10515.3	13277.8	16416.0	19492.0	22465.6	26232.0	30624.8	35101.2
-25°	2492.3	3943.5	5859.0	7920.1	9849.5	12357.5	14567.4	16343.2	18883.1	20870.7	23583.5
-27.5°	1725.9	2669.1	4096.0	5738.2	7260.0	8865.3	10664.4	11876.8	13855.3	14930.5	16593.5
-30°	1262.8	1792.2	2818.5	4046.7	5372.6	6739.0	8023.3	9356.4	10732.7	11949.7	12872.6
-32.5°	1119.9	1327.8	1833.9	2717.9	3755.4	4901.1	5988.8	7150.9	8247.3	9190.7	9952.0
-35°	1022.8	1139.4	1298.4	1765.8	2384.9	3279.5	4135.1	5075.8	5956.4	6685.7	7297.0
-37.5°	945.9	1039.3	1139.4	1241.9	1589.5	1981.0	2589.2	3243.0	3808.1	4453.7	4952.4
-40°	858.6	958.4	1038.5	1120.4	1212.5	1310.8	1640.0	1932.7	2252.0	2687.9	3044.0
-42.5°	768.6	855.4	945.6	1021.8	1091.3	1164.8	1238.8	1304.3	1466.5	1658.7	1804.5
-45°	706.3	767.7	833.8	914.6	989.4	1053.0	1112.9	1170.3	1229.1	1283.5	1328.6
-47.5°	651.3	701.0	755.5	811.0	867.2	932.7	994.1	1052.3	1103.4	1149.7	1187.0
-50°	611.3	645.6	691.0	734.7	782.9	828.5	869.2	917.0	969.2	1016.7	1054.7
-52.5°	591.0	621.0	647.0	678.5	721.9	760.1	793.6	831.5	867.8	901.0	925.4
-55°	551.2	590.4	628.4	663.7	693.7	721.0	750.1	787.2	819.1	846.5	861.6
-57.5°	488.7	539.2	587.0	631.7	673.9	713.6	746.5	776.0	805.5	833.5	846.4
-60°	414.8	463.1	512.9	566.9	621.3	675.4	715.3	753.3	789.2	819.3	835.3
-62.5°	335.5	379.4	424.1	472.6	524.4	575.1	618.5	663.9	710.4	750.5	776.1
-65°	245.3	282.7	322.7	362.5	401.9	442.4	481.2	519.4	556.5	586.5	607.5
-67.5°	175.8	199.9	224.7	250.2	280.7	312.0	340.7	368.5	395.0	416.2	431.9
-70°	120.8	136.4	151.0	167.3	186.8	205.8	223.5	240.3	256.0	269.4	280.5
-72.5°	75.2	85.4	95.5	106.9	118.0	128.7	138.7	148.1	156.8	164.7	171.8
-75°	37.8	42.6	50.6	58.2	65.4	72.8	79.8	85.8	91.1	95.5	99.2
-77.5°	24.5	27.5	30.5	33.3	35.8	39.3	43.1	47.0	50.9	54.0	56.9
-80°	17.1	18.8	20.6	22.4	24.3	26.5	28.7	30.9	33.1	34.5	35.7
-82.5°	12.2	13.1	14.2	15.2	16.3	17.8	19.4	21.0	22.5	23.5	24.5
-85°	8.7	9.1	9.6	10.1	10.6	12.0	13.5	14.9	16.2	17.2	18.1
-87.5°	6.3	6.3	6.4	6.4	6.5	7.7	8.9	10.2	11.5	12.0	12.4
-90°	3.3	3.3	3.3	3.3	3.3	2.9	2.5	2.1	1.7	1.7	1.7



REPORT NUMBER: P731487 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-4S-CV2

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	10.8	11.6	11.6	11.6	11.6	11.6	10.8	10.0	9.1	8.3	7.5
87.5°	1.7	1.7	0.9	0.0	0.9	1.7	1.7	1.7	1.7	1.7	2.1
85°	2.1	1.7	1.7	1.7	1.7	1.7	2.1	2.5	2.9	3.2	3.2
82.5°	2.1	1.7	1.7	1.7	1.7	1.7	2.1	2.5	2.9	3.3	3.3
80°	2.1	1.7	1.7	1.7	1.7	1.7	2.1	2.5	2.9	3.3	3.3
77.5°	2.1	1.7	1.7	1.7	1.7	1.7	2.1	2.5	2.9	3.3	3.7
75°	3.2	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.3	3.4	3.8
72.5°	4.9	5.0	5.0	5.0	5.0	5.0	4.9	4.8	4.7	4.8	5.3
70°	6.5	6.5	5.8	5.0	5.8	6.5	6.5	6.4	6.3	6.4	7.2
67.5°	8.2	8.2	9.0	9.9	9.0	8.2	8.2	8.1	7.9	8.1	8.8
65°	10.8	11.4	10.8	9.9	10.8	11.4	10.8	10.2	9.7	9.7	10.2
62.5°	9.5	9.9	9.2	8.3	9.2	9.9	9.5	9.2	8.9	9.2	9.9
60°	7.9	8.3	8.3	8.3	8.3	8.3	7.9	7.5	7.2	7.7	8.5
57.5°	7.6	8.1	8.3	8.3	8.3	8.1	7.6	7.1	6.6	7.0	7.5
55°	8.2	8.3	8.3	8.3	8.3	8.3	8.2	8.0	7.7	7.9	8.1
52.5°	11.1	11.4	11.5	11.6	11.5	11.4	11.1	10.7	10.3	10.0	9.8
50°	14.4	14.7	14.8	14.9	14.8	14.7	14.4	13.9	13.5	13.0	12.2
47.5°	19.7	19.8	19.8	19.9	19.8	19.8	19.7	19.2	18.7	17.9	16.7
45°	30.3	29.9	29.6	29.8	29.6	29.9	30.3	29.8	28.8	27.0	24.3
42.5°	49.2	49.3	49.2	49.7	49.2	49.3	49.2	48.0	46.7	43.4	39.3
40°	101.8	98.2	93.0	92.8	93.0	98.2	101.8	98.8	88.0	73.1	65.2
37.5°	212.0	215.7	215.3	218.8	215.3	215.7	212.0	201.7	180.8	143.7	128.5
35°	429.9	449.2	453.6	452.4	453.6	449.2	429.9	394.8	348.6	298.5	256.2
32.5°	708.1	733.7	740.8	750.7	740.8	733.7	708.1	676.9	605.5	524.4	457.5
30°	1244.9	1279.3	1246.5	1179.9	1246.5	1279.3	1244.9	1456.6	1144.4	1054.0	902.0
27.5°	4510.8	4676.1	4303.8	4167.9	4303.8	4676.1	4510.8	4118.8	3382.7	2817.3	2048.3
25°	9192.7	9924.4	10674.4	10607.9	10674.4	9924.4	9192.7	8512.6	7271.0	5672.6	4389.9
22.5°	14835.9	15577.3	16195.3	16408.1	16195.3	15577.3	14835.9	13296.0	11439.9	9258.0	7263.3
20°	23498.8	24942.8	25976.8	24874.9	25976.8	24942.8	23498.8	20642.3	17550.3	14130.1	11048.0
17.5°	37561.4	41909.7	44168.6	45595.1	44168.6	41909.7	37561.4	30757.2	26256.0	21188.1	16363.4
15°	58307.7	64865.3	68498.3	70904.2	68498.3	64865.3	58307.7	49622.6	40193.6	32284.3	24791.0
12.5°	82233.3	89383.1	92594.1	95214.8	92594.1	89383.1	82233.3	71510.1	58092.9	46227.0	35501.4
10°	104977.7	112702.1	118050.1	120829.6	118050.1	112702.1	104977.7	93960.3	79957.1	63331.9	46464.3
7.5°	125817.2	135266.2	140693.2	142420.7	140693.2	135266.2	125817.2	115310.5	99644.9	79863.9	59748.4
5°	146200.8	154631.6	161158.1	162637.9	161158.1	154631.6	146200.8	132387.2	115600.8	94563.3	70498.5
2.5°	161895.4	171999.4	177858.9	179630.3	177858.9	171999.4	161895.4	147775.8	128528.4	106974.3	79275.6
0°	169087.8	178494.2	185432.1	187920.5	185432.1	178494.2	169087.8	155225.2	135891.2	112719.1	82982.0
-2.5°	167583.4	176252.0	181218.2	182073.8	181218.2	176252.0	167583.4	154965.8	135904.1	112404.0	82564.6
-5°	162292.5	170257.0	175162.1	175302.4	175162.1	170257.0	162292.5	149738.8	131144.4	107518.6	78884.4
-7.5°	150670.6	158118.4	161538.0	162396.8	161538.0	158118.4	150670.6	139317.0	121829.0	97773.8	71008.6
-10°	138841.8	145751.5	148982.8	149340.4	148982.8	145751.5	138841.8	128260.7	109060.0	86710.2	61641.1
-12.5°	123519.6	130913.0	134139.4	135656.7	134139.4	130913.0	123519.6	110409.4	93324.6	72564.1	55403.5
-15°	100718.5	107867.8	111738.6	114596.8	111738.6	107867.8	100718.5	88755.0	73590.5	59600.4	46542.7
-17.5°	76287.3	82415.2	86229.8	89702.0	86229.8	82415.2	76287.3	66291.9	57219.1	47306.5	38642.7
-20°	54313.3	58215.8	59414.5	61285.7	59414.5	58215.8	54313.3	48114.7	42543.4	35603.6	30107.9



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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°	38147.0	40365.9	41771.4	42565.7	41771.4	40365.9	38147.0	35101.2	30624.8	26232.0	22465.6
-25°	25861.0	27399.9	27998.3	28688.1	27998.3	27399.9	25861.0	23583.5	20870.7	18883.1	16343.2
-27.5°	17322.8	17954.7	18386.3	18620.5	18386.3	17954.7	17322.8	16593.5	14930.5	13855.3	11876.8
-30°	13615.5	14193.3	14539.8	14649.8	14539.8	14193.3	13615.5	12872.6	11949.7	10732.7	9356.4
-32.5°	10541.4	10978.2	11211.7	11242.6	11211.7	10978.2	10541.4	9952.0	9190.7	8247.3	7150.9
-35°	7809.4	8207.2	8427.5	8412.0	8427.5	8207.2	7809.4	7297.0	6685.7	5956.4	5075.8
-37.5°	5381.3	5718.6	5925.5	5979.2	5925.5	5718.6	5381.3	4952.4	4453.7	3808.1	3243.0
-40°	3366.5	3614.2	3762.1	3781.8	3762.1	3614.2	3366.5	3044.0	2687.9	2252.0	1932.7
-42.5°	1932.5	2032.9	2089.2	2086.4	2089.2	2032.9	1932.5	1804.5	1658.7	1466.5	1304.3
-45°	1358.2	1380.6	1393.3	1395.4	1393.3	1380.6	1358.2	1328.6	1283.5	1229.1	1170.3
-47.5°	1213.9	1235.2	1246.5	1247.9	1246.5	1235.2	1213.9	1187.0	1149.7	1103.4	1052.3
-50°	1085.1	1110.3	1124.0	1126.9	1124.0	1110.3	1085.1	1054.7	1016.7	969.2	917.0
-52.5°	945.2	961.9	967.4	964.5	967.4	961.9	945.2	925.4	901.0	867.8	831.5
-55°	875.7	889.3	895.2	896.6	895.2	889.3	875.7	861.6	846.5	819.1	787.2
-57.5°	858.9	871.1	874.9	875.0	874.9	871.1	858.9	846.4	833.5	805.5	776.0
-60°	850.9	866.1	869.0	866.7	869.0	866.1	850.9	835.3	819.3	789.2	753.3
-62.5°	798.8	818.2	824.4	823.6	824.4	818.2	798.8	776.1	750.5	710.4	663.9
-65°	625.2	639.5	646.8	649.6	646.8	639.5	625.2	607.5	586.5	556.5	519.4
-67.5°	444.7	454.5	457.7	457.4	457.7	454.5	444.7	431.9	416.2	395.0	368.5
-70°	289.9	297.6	298.3	296.6	298.3	297.6	289.9	280.5	269.4	256.0	240.3
-72.5°	177.9	183.2	182.7	180.6	182.7	183.2	177.9	171.8	164.7	156.8	148.1
-75°	102.4	105.0	104.2	102.7	104.2	105.0	102.4	99.2	95.5	91.1	85.8
-77.5°	59.8	62.4	62.9	63.0	62.9	62.4	59.8	56.9	54.0	50.9	47.0
-80°	36.8	37.9	38.1	38.1	38.1	37.9	36.8	35.7	34.5	33.1	30.9
-82.5°	25.5	26.4	26.5	26.5	26.5	26.4	25.5	24.5	23.5	22.5	21.0
-85°	19.0	19.8	19.9	19.9	19.9	19.8	19.0	18.1	17.2	16.2	14.9
-87.5°	12.9	13.3	13.3	13.3	13.3	13.3	12.9	12.4	12.0	11.5	10.2
-90°	1.7	1.7	0.8	0.0	0.8	1.7	1.7	1.7	1.7	1.7	2.1



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	6.7	5.8	5.0	5.0	5.0	5.0	5.0	5.4	5.8	6.2	6.6
87.5°	2.5	2.9	3.3	3.3	3.3	3.3	3.3	3.7	4.2	4.6	5.0
85°	3.2	3.2	3.3	3.6	3.9	4.2	4.4	4.5	4.6	4.8	5.0
82.5°	3.3	3.3	3.3	3.8	4.2	4.6	5.0	5.0	5.0	5.0	5.0
80°	3.3	3.3	3.4	3.8	4.2	4.6	5.0	5.1	5.1	5.0	5.1
77.5°	3.9	4.1	4.2	4.3	4.5	4.7	5.1	5.5	5.7	5.9	5.9
75°	4.3	4.7	5.1	5.2	5.2	5.1	5.2	5.6	6.0	6.4	6.6
72.5°	5.8	6.1	6.3	6.3	6.2	6.2	6.5	6.8	6.9	6.8	6.6
70°	7.8	8.5	9.3	9.8	10.0	9.9	9.7	9.5	9.2	9.2	8.6
67.5°	9.5	10.1	11.6	13.3	14.4	14.9	14.7	13.8	13.1	12.6	11.2
65°	10.7	11.5	13.8	15.9	17.8	19.5	21.1	21.0	20.0	17.8	14.2
62.5°	10.7	11.4	13.1	15.2	17.9	22.2	27.3	29.1	28.9	25.2	19.8
60°	9.2	10.2	11.9	13.7	15.5	21.3	30.0	36.2	39.7	33.6	25.5
57.5°	8.0	8.9	10.4	12.2	14.3	20.9	30.1	41.2	48.2	39.4	31.1
55°	8.2	8.7	9.4	10.5	12.2	18.5	26.8	36.8	44.8	42.3	33.1
52.5°	9.8	9.8	9.8	9.7	11.3	15.5	21.5	30.6	35.5	34.8	31.9
50°	11.5	11.8	11.7	11.3	12.0	13.2	17.1	23.9	26.5	27.9	26.8
47.5°	16.2	15.9	14.8	14.2	14.5	14.4	15.7	17.6	21.4	21.7	22.1
45°	24.3	23.6	21.7	20.9	19.5	18.7	17.5	19.4	20.3	21.0	18.4
42.5°	38.0	35.5	33.1	31.7	29.1	26.5	24.4	24.9	24.5	23.5	22.8
40°	60.1	52.4	49.4	46.9	43.5	38.1	36.8	33.8	32.2	29.4	30.3
37.5°	106.2	81.6	76.5	66.1	61.4	58.1	54.2	48.6	42.3	44.9	44.6
35°	202.7	166.8	133.9	107.7	86.4	90.2	79.3	68.4	64.3	67.9	64.7
32.5°	357.5	354.9	260.3	201.3	176.7	151.0	124.4	96.8	106.8	104.4	92.1
30°	748.6	800.1	614.5	448.5	409.3	290.9	196.8	180.8	172.7	152.9	127.6
27.5°	1974.3	1763.1	1444.1	1134.8	835.8	600.5	388.3	287.1	258.0	222.6	181.3
25°	3839.0	3429.8	2721.4	2178.3	1694.0	1036.6	664.4	469.6	367.5	308.7	254.1
22.5°	5942.7	5079.3	4124.7	3310.6	2577.8	1709.2	1058.9	680.2	490.8	410.1	340.2
20°	8351.3	6849.1	5605.0	4537.9	3439.9	2339.4	1500.9	1017.0	695.4	523.4	428.1
17.5°	12369.6	9066.1	7567.5	6051.4	4550.4	3141.0	2316.5	1550.2	916.8	641.6	515.3
15°	17786.2	13602.5	10722.7	8199.0	6214.3	4816.4	3482.0	2229.2	1230.0	804.3	623.6
12.5°	26951.2	20011.1	14754.2	11332.4	9034.5	6937.6	5002.9	3235.0	1768.4	1017.0	755.7
10°	35758.6	26795.8	20024.6	15514.8	12232.9	9345.1	6555.0	4134.4	2256.1	1238.1	882.4
7.5°	44276.1	33200.1	24949.7	19071.6	14712.0	11068.6	7817.0	4962.8	2681.3	1454.0	1003.2
5°	51194.7	37855.9	27906.7	20820.2	16365.9	12572.9	9001.0	5739.9	3038.9	1658.5	1117.0
2.5°	55330.6	40686.2	30147.5	22068.2	17535.9	13612.0	9859.8	6219.8	3206.0	1767.8	1180.8
0°	56764.8	42129.8	30221.1	22115.6	17465.4	13711.8	10240.0	6373.7	3238.2	1834.5	1236.3
-2.5°	56238.2	41120.8	29680.8	21555.6	17012.7	13139.3	9768.6	6401.5	3419.3	1903.5	1278.4
-5°	53730.5	38306.5	27669.3	20260.4	16061.1	12465.4	9269.9	6266.9	3501.7	1935.8	1311.3
-7.5°	49778.6	35456.5	25220.4	18647.4	14879.9	11662.9	8738.3	5991.5	3459.3	1913.3	1316.7
-10°	44633.3	32789.0	23891.1	18169.0	14175.9	10792.9	8130.5	5604.7	3283.2	1848.7	1312.0
-12.5°	40895.5	30118.8	22277.4	17661.7	13994.0	10613.5	7773.6	5152.2	2958.1	1738.6	1296.9
-15°	35886.6	27378.0	21255.6	16983.2	13542.1	10189.5	7314.9	4593.2	2453.9	1567.1	1271.3
-17.5°	30372.8	24258.3	19421.2	15363.2	12133.6	9433.8	6560.9	3948.8	2090.8	1389.6	1204.5
-20°	24473.1	20389.8	16724.3	13235.9	10192.9	7639.6	5319.0	3082.1	1778.0	1298.3	1129.5



REPORT NUMBER: P731487 (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°	19492.0	16416.0	13277.8	10515.3	8000.5	5788.3	3826.8	2160.2	1389.3	1197.9	1043.2
-25°	14567.4	12357.5	9849.5	7920.1	5859.0	3943.5	2492.3	1652.9	1247.2	1093.1	946.7
-27.5°	10664.4	8865.3	7260.0	5738.2	4096.0	2669.1	1725.9	1247.2	1118.6	986.9	851.1
-30°	8023.3	6739.0	5372.6	4046.7	2818.5	1792.2	1262.8	1112.0	1005.4	889.7	769.2
-32.5°	5988.8	4901.1	3755.4	2717.9	1833.9	1327.8	1119.9	990.6	904.8	804.3	711.6
-35°	4135.1	3279.5	2384.9	1765.8	1298.4	1139.4	1022.8	918.6	815.9	728.8	660.8
-37.5°	2589.2	1981.0	1589.5	1241.9	1139.4	1039.3	945.9	842.2	739.5	675.0	616.3
-40°	1640.0	1310.8	1212.5	1120.4	1038.5	958.4	858.6	759.3	690.7	626.2	574.9
-42.5°	1238.8	1164.8	1091.3	1021.8	945.6	855.4	768.6	703.8	642.7	587.1	543.3
-45°	1112.9	1053.0	989.4	914.6	833.8	767.7	706.3	650.9	598.2	557.3	515.2
-47.5°	994.1	932.7	867.2	811.0	755.5	701.0	651.3	602.2	569.9	531.7	478.2
-50°	869.2	828.5	782.9	734.7	691.0	645.6	611.3	579.9	542.3	494.1	437.5
-52.5°	793.6	760.1	721.9	678.5	647.0	621.0	591.0	548.9	504.9	447.6	386.2
-55°	750.1	721.0	693.7	663.7	628.4	590.4	551.2	504.2	447.9	390.4	334.5
-57.5°	746.5	713.6	673.9	631.7	587.0	539.2	488.7	437.2	385.2	332.9	281.5
-60°	715.3	675.4	621.3	566.9	512.9	463.1	414.8	367.2	320.2	273.3	227.6
-62.5°	618.5	575.1	524.4	472.6	424.1	379.4	335.5	291.6	250.8	211.9	175.0
-65°	481.2	442.4	401.9	362.5	322.7	282.7	245.3	214.3	185.6	155.4	124.7
-67.5°	340.7	312.0	280.7	250.2	224.7	199.9	175.8	150.6	130.0	112.4	94.6
-70°	223.5	205.8	186.8	167.3	151.0	136.4	120.8	105.4	90.7	77.4	63.6
-72.5°	138.7	128.7	118.0	106.9	95.5	85.4	75.2	64.6	53.8	42.9	34.7
-75°	79.8	72.8	65.4	58.2	50.6	42.6	37.8	34.5	31.2	27.9	24.4
-77.5°	43.1	39.3	35.8	33.3	30.5	27.5	24.5	22.3	20.9	19.5	18.2
-80°	28.7	26.5	24.3	22.4	20.6	18.8	17.1	16.2	15.3	14.6	13.9
-82.5°	19.4	17.8	16.3	15.2	14.2	13.1	12.2	11.8	11.4	10.9	10.5
-85°	13.5	12.0	10.6	10.1	9.6	9.1	8.7	8.5	8.4	8.2	8.0
-87.5°	8.9	7.7	6.5	6.4	6.4	6.3	6.3	6.4	6.4	6.5	6.6
-90°	2.5	2.9	3.3	3.3	3.3	3.3	3.3	3.7	4.2	4.6	5.0



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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°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
87.5°	5.0	5.0	5.0	5.0	5.4	5.8	6.2	6.6	6.6	6.6	6.6
85°	5.1	5.2	5.3	5.2	5.5	5.8	6.2	6.6	6.6	6.6	6.6
82.5°	5.4	5.8	6.0	6.2	6.1	6.2	6.4	6.6	6.7	6.6	6.6
80°	5.5	5.9	6.3	6.6	6.6	6.6	6.5	6.6	6.9	6.9	6.9
77.5°	5.9	6.0	6.3	6.6	6.6	6.6	6.6	6.7	7.1	7.2	7.3
75°	6.6	6.5	6.5	6.7	6.7	6.6	6.6	6.7	7.1	7.6	7.7
72.5°	6.6	6.6	6.6	6.8	7.1	7.1	6.9	6.8	7.2	7.6	8.0
70°	7.7	6.9	6.6	6.9	7.3	7.6	7.6	7.3	7.2	7.6	8.0
67.5°	9.9	8.9	7.9	7.1	7.4	7.8	8.2	7.9	7.7	7.7	8.1
65°	12.5	11.0	9.8	8.5	7.9	7.9	8.3	8.3	8.0	7.9	8.1
62.5°	15.8	13.2	11.6	9.9	8.6	8.2	8.3	8.3	8.3	8.1	8.2
60°	19.4	15.5	13.3	11.5	9.7	8.4	8.3	8.3	8.3	8.3	8.3
57.5°	23.2	17.3	14.8	13.0	11.2	9.2	8.3	8.3	8.3	8.3	8.3
55°	25.7	19.5	16.4	14.1	12.4	10.6	8.7	8.3	8.3	8.3	8.3
52.5°	25.3	21.0	18.0	15.2	13.2	11.7	9.8	8.3	8.3	8.3	8.3
50°	22.9	21.6	19.0	16.1	13.8	12.3	10.8	9.0	8.3	8.3	8.3
47.5°	21.9	21.9	19.7	16.8	14.2	12.8	11.4	9.7	8.3	8.3	8.3
45°	21.5	22.6	20.7	17.5	14.7	13.3	11.8	10.4	8.8	8.4	8.3
42.5°	22.0	23.7	22.5	18.4	16.1	13.7	12.3	10.8	9.2	8.5	8.4
40°	28.2	25.5	24.9	22.6	18.1	14.2	12.7	11.1	9.6	8.7	8.5
37.5°	36.3	31.2	27.6	30.2	21.9	16.4	13.0	11.5	10.2	9.2	8.6
35°	53.8	40.2	38.0	40.2	31.3	19.0	13.4	11.8	10.7	9.6	8.8
32.5°	75.8	60.2	57.5	52.2	43.0	21.9	15.0	12.6	11.2	10.1	9.1
30°	107.8	97.1	82.2	66.8	56.4	32.6	18.0	13.6	11.7	10.5	9.3
27.5°	156.6	138.0	112.6	89.2	70.3	45.5	22.0	14.9	12.2	10.9	9.7
25°	213.0	184.3	151.4	116.6	86.0	63.2	26.2	16.6	13.0	11.3	10.0
22.5°	281.7	234.0	192.8	146.8	109.6	83.3	35.7	20.0	14.2	11.7	10.4
20°	353.4	286.2	237.3	180.6	137.9	103.2	51.1	23.5	15.5	12.1	10.7
17.5°	428.0	352.6	290.9	220.5	166.9	124.5	67.5	27.1	16.8	12.4	11.0
15°	528.5	437.5	349.5	262.7	194.6	146.9	84.6	30.6	18.2	12.8	11.3
12.5°	634.7	526.1	411.6	306.4	220.9	170.0	101.8	34.1	19.6	13.7	11.6
10°	740.0	616.7	475.6	350.5	245.8	193.2	118.8	38.9	22.8	15.1	12.0
7.5°	843.3	707.3	540.1	394.0	272.4	223.4	146.8	46.8	26.3	16.7	12.3
5°	936.6	788.1	603.7	447.2	314.8	260.4	176.3	54.7	29.9	18.3	12.7
2.5°	995.9	850.9	663.3	498.3	356.2	296.1	204.6	62.4	33.3	20.0	13.0
0°	1049.0	906.5	717.6	545.2	396.1	329.8	230.4	69.6	36.5	21.5	13.3
-2.5°	1082.7	939.2	747.3	582.5	437.4	366.8	261.7	90.0	48.3	27.7	15.9
-5°	1110.8	964.7	772.2	615.7	476.7	401.0	288.5	109.3	59.6	33.7	18.3
-7.5°	1121.1	969.8	785.1	641.9	513.9	432.4	310.2	126.9	70.0	39.1	20.6
-10°	1121.2	959.0	780.9	641.5	522.9	445.6	323.3	142.4	79.3	44.0	22.6
-12.5°	1113.2	940.9	772.9	636.7	524.5	441.9	313.8	152.5	87.2	48.0	24.3
-15°	1096.6	915.4	761.5	627.4	523.4	436.0	302.0	159.2	93.2	51.4	25.6
-17.5°	1063.0	882.6	747.0	613.6	519.5	427.9	288.6	163.7	97.7	54.1	27.0
-20°	983.7	835.4	729.3	595.2	512.5	417.6	274.0	165.8	100.5	55.7	28.4



REPORT NUMBER: P731487 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-4S-CV2

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	900.3	780.9	684.1	583.3	500.7	405.4	258.7	165.4	101.4	56.1	29.3
-25°	814.7	725.4	635.3	555.7	483.9	382.5	249.8	162.4	100.3	55.1	29.6
-27.5°	745.8	669.9	588.2	528.1	456.4	360.4	245.2	160.7	97.9	52.8	29.3
-30°	683.8	618.4	554.0	499.6	428.4	329.0	237.2	156.5	95.1	51.2	28.5
-32.5°	635.4	570.7	523.8	467.7	393.9	297.1	220.1	149.5	90.3	50.1	27.8
-35°	596.6	538.4	494.0	435.9	356.8	272.0	199.1	139.6	83.5	48.2	26.8
-37.5°	558.6	513.8	459.8	400.3	319.8	244.7	179.6	124.4	74.7	45.3	25.2
-40°	531.7	485.2	429.2	360.4	286.4	215.2	158.7	109.5	68.8	41.6	23.1
-42.5°	503.4	450.7	390.2	321.2	252.1	190.5	136.9	93.8	62.3	38.0	20.3
-45°	465.0	411.2	347.6	282.5	217.0	164.4	118.8	78.6	55.0	34.2	18.0
-47.5°	422.8	364.5	304.8	242.9	187.2	138.8	99.9	69.8	47.2	29.5	16.7
-50°	372.6	318.0	262.1	208.1	156.9	117.4	82.7	60.5	40.6	23.8	15.1
-52.5°	326.5	272.6	222.3	173.8	131.7	95.4	71.7	50.8	33.5	20.2	13.3
-55°	279.7	229.3	183.7	142.6	106.2	80.5	60.1	42.0	25.9	17.5	11.4
-57.5°	232.9	186.7	147.7	112.0	86.6	67.1	48.9	32.7	21.3	14.5	11.1
-60°	184.9	146.6	111.5	89.7	71.2	53.6	37.7	24.6	17.5	11.9	10.7
-62.5°	139.4	108.5	89.5	72.2	55.4	40.0	26.9	19.7	13.4	11.5	10.3
-65°	104.6	86.3	69.7	53.8	39.1	27.7	20.9	14.5	12.1	11.0	10.0
-67.5°	77.9	62.5	48.2	34.7	27.1	21.0	14.7	12.5	11.5	10.5	10.0
-70°	50.1	37.5	30.5	25.2	19.7	14.8	13.1	11.9	11.0	10.4	10.0
-72.5°	30.5	26.3	21.9	17.5	15.3	13.6	12.3	11.3	10.6	10.2	9.9
-75°	20.8	18.6	16.8	15.1	13.5	12.2	11.4	10.7	10.2	9.9	9.6
-77.5°	16.6	15.1	13.7	12.7	11.8	11.1	10.5	10.1	9.7	9.4	9.1
-80°	13.0	12.2	11.5	10.9	10.3	9.9	9.6	9.4	9.1	8.9	8.6
-82.5°	10.0	9.7	9.5	9.4	9.3	9.1	8.9	8.7	8.5	8.3	8.1
-85°	8.0	8.2	8.3	8.5	8.4	8.3	8.2	8.0	7.9	7.8	7.6
-87.5°	6.9	7.1	7.4	7.6	7.5	7.4	7.4	7.3	7.3	7.2	7.1
-90°	5.0	5.0	5.0	5.0	5.4	5.8	6.2	6.6	6.6	6.6	6.6



REPORT NUMBER: P731487 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-4S-CV2

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	6.6	6.6	6.6	6.6	6.6	6.6	6.6
87.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6
85°	6.6	6.6	6.6	6.6	6.6	6.6	6.6
82.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6
80°	6.7	6.6	6.6	6.6	6.6	6.6	6.6
77.5°	7.1	6.7	6.6	6.6	6.6	6.6	6.6
75°	7.5	7.1	6.7	6.6	6.6	6.6	6.6
72.5°	7.9	7.4	6.9	6.6	6.6	6.6	6.6
70°	8.3	7.8	7.2	6.6	6.6	6.6	6.6
67.5°	8.3	8.1	7.5	6.8	6.6	6.6	6.6
65°	8.3	8.3	7.8	7.1	6.6	6.6	6.6
62.5°	8.3	8.3	8.0	7.2	6.6	6.6	6.6
60°	8.3	8.3	8.3	7.4	6.6	6.6	6.6
57.5°	8.3	8.3	8.3	7.6	6.7	6.6	6.6
55°	8.3	8.3	8.3	7.8	6.8	6.6	6.6
52.5°	8.3	8.3	8.3	8.0	7.0	6.6	6.6
50°	8.3	8.3	8.3	8.2	7.1	6.6	6.6
47.5°	8.3	8.3	8.3	8.3	7.2	6.6	6.6
45°	8.3	8.3	8.3	8.3	7.3	6.6	6.6
42.5°	8.3	8.3	8.3	8.3	7.4	6.6	6.6
40°	8.3	8.3	8.3	8.3	7.5	6.6	6.6
37.5°	8.3	8.3	8.3	8.3	7.6	6.6	6.6
35°	8.3	8.3	8.3	8.3	7.7	6.6	6.6
32.5°	8.3	8.3	8.3	8.3	7.8	6.6	6.6
30°	8.5	8.3	8.3	8.3	7.8	6.6	6.6
27.5°	8.7	8.3	8.3	8.3	7.9	6.6	6.6
25°	8.9	8.3	8.3	8.3	8.0	6.6	6.6
22.5°	9.1	8.3	8.3	8.3	8.0	6.6	6.6
20°	9.3	8.4	8.3	8.3	8.1	6.6	6.6
17.5°	9.5	8.6	8.3	8.3	8.1	6.6	6.6
15°	9.6	8.8	8.3	8.3	8.2	6.6	6.6
12.5°	9.7	8.9	8.3	8.3	8.2	6.6	6.6
10°	9.8	9.1	8.3	8.3	8.2	6.6	6.6
7.5°	9.9	9.3	8.3	8.3	8.3	6.6	6.6
5°	9.9	9.5	8.3	8.3	8.3	6.6	6.6
2.5°	9.9	9.7	8.3	8.3	8.3	6.6	6.6
0°	9.9	9.9	8.3	8.3	8.3	6.6	6.6
-2.5°	10.8	9.9	8.3	8.3	8.3	6.6	6.6
-5°	11.7	9.9	8.3	8.3	8.3	6.6	6.6
-7.5°	12.4	9.8	8.3	8.3	8.3	6.6	6.6
-10°	13.1	9.8	8.3	8.3	8.2	6.6	6.6
-12.5°	13.7	9.7	8.3	8.3	8.2	6.6	6.6
-15°	14.1	9.6	8.3	8.3	8.2	6.6	6.6
-17.5°	14.3	9.5	8.3	8.3	8.1	6.6	6.6
-20°	14.6	9.4	8.3	8.3	8.1	6.6	6.6



REPORT NUMBER: P731487 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-4S-CV2

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	15.2	9.3	8.3	8.3	8.0	6.6	6.6
-25°	15.5	9.4	8.3	8.3	8.0	6.6	6.6
-27.5°	15.4	9.6	8.3	8.3	7.9	6.6	6.6
-30°	15.0	9.6	8.3	8.3	7.8	6.6	6.6
-32.5°	14.1	9.5	8.4	8.3	7.8	6.6	6.6
-35°	13.7	9.3	8.5	8.3	7.7	6.6	6.6
-37.5°	13.5	9.2	8.5	8.3	7.6	6.6	6.6
-40°	13.1	9.2	8.5	8.3	7.5	6.6	6.6
-42.5°	12.4	9.3	8.6	8.3	7.4	6.6	6.6
-45°	11.6	9.3	8.6	8.4	7.3	6.6	6.6
-47.5°	10.5	9.2	8.7	8.4	7.2	6.6	6.6
-50°	10.3	9.2	8.7	8.3	7.1	6.6	6.6
-52.5°	10.2	9.1	8.8	8.2	7.0	6.6	6.6
-55°	10.0	9.1	8.8	8.0	6.8	6.6	6.6
-57.5°	9.8	9.2	8.9	7.9	6.7	6.6	6.6
-60°	9.6	9.2	8.9	7.7	6.6	6.6	6.6
-62.5°	9.6	9.3	8.7	7.5	6.6	6.6	6.6
-65°	9.7	9.3	8.4	7.4	6.6	6.6	6.6
-67.5°	9.7	9.2	8.2	7.2	6.6	6.6	6.6
-70°	9.8	8.9	7.9	7.0	6.6	6.6	6.6
-72.5°	9.4	8.6	7.7	6.9	6.6	6.6	6.6
-75°	9.1	8.3	7.4	6.9	6.6	6.6	6.6
-77.5°	8.7	7.9	7.3	6.9	6.6	6.6	6.6
-80°	8.3	7.7	7.2	6.8	6.6	6.6	6.6
-82.5°	7.9	7.4	7.0	6.8	6.6	6.6	6.6
-85°	7.5	7.1	6.9	6.7	6.6	6.6	6.6
-87.5°	7.0	6.9	6.7	6.7	6.6	6.6	6.6
-90°	6.6	6.6	6.6	6.6	6.6	6.6	6.6

(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

