

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: P731622 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-80-2S-CV1**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731622 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-13)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680N-40-80-2S-CV1
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 2S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

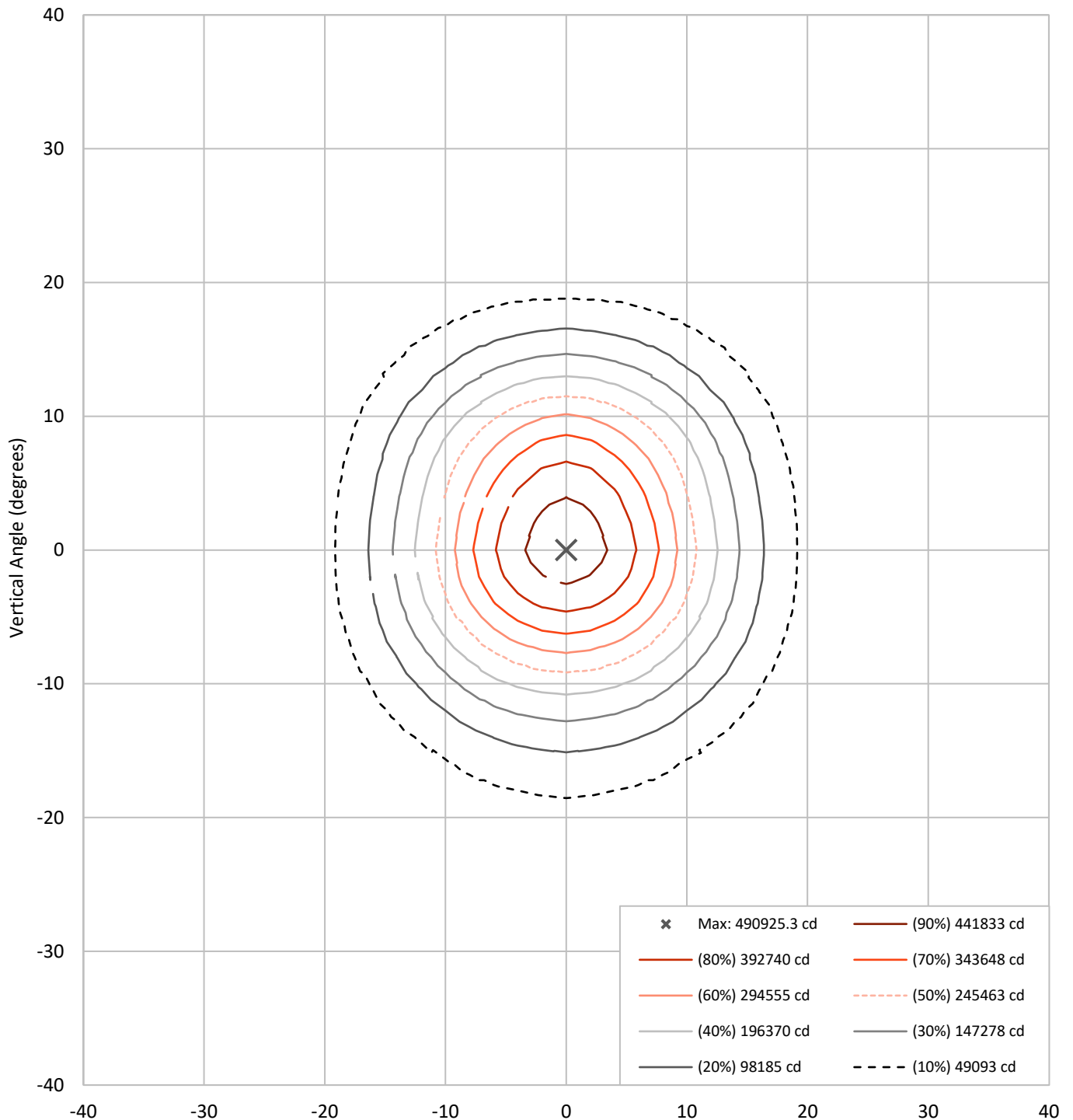
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	79383.1 lumens	Max Intensity:	490925.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	112.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	21.6°H x 20.7°V	Field Angle (10%):	38.3°H x 37.3°V
Beam Lumens:	36861.9 lumens	Field Lumens:	67108.7 lumens
Beam Efficiency:	46.4%	Field Efficiency:	84.5%

Input Watts (W): 703.3
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





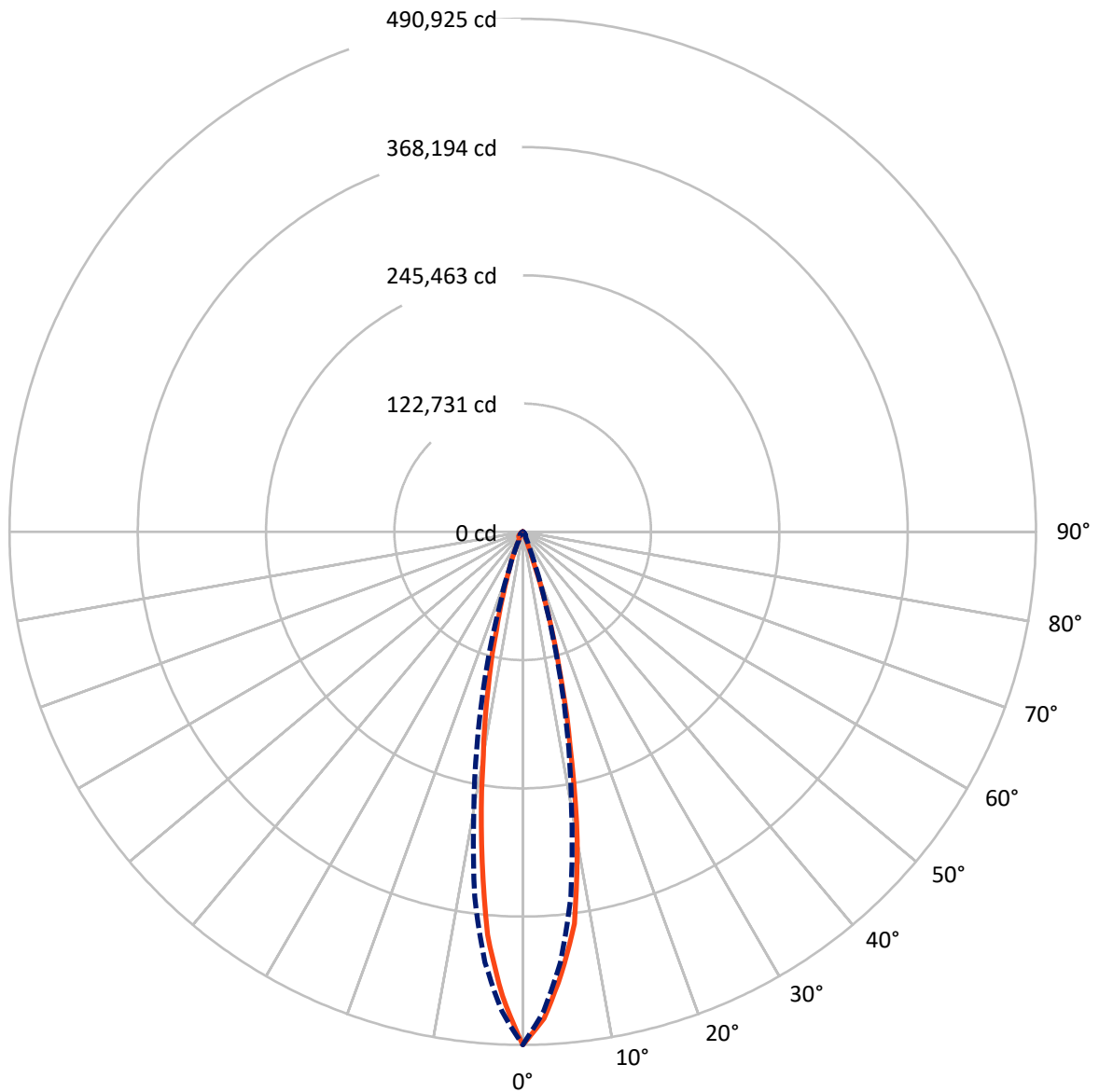
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Lumen Table

90	0.1		0.3		0.5		0.5		0.5		0.5		0.3		0.1	
80	0.1		0.3		0.5		0.5		0.5		0.5		0.3		0.1	
70	0.1	0.1	0.2	0.7	0.8	0.4	0.3	0.2	0.2	0.3	0.4	0.8	0.7	0.2	0.1	0.1
60		0.1	0.4	0.6	0.5	0.3	0.2	0.3	0.3	0.2	0.3	0.5	0.6	0.4	0.1	
50	0.2	0.2	0.4	0.5	0.6	1.1	1.8	1.2	1.2	1.8	1.1	0.6	0.5	0.4	0.2	0.2
40		0.3	1.0	2.8	5.2	7.7	10.6	12.7	12.7	10.6	7.7	5.2	2.8	1.0	0.3	
30	0.3	0.6	5.1	16.0	38.0	57.6	99.7	189.1	189.1	99.7	57.6	38.0	16.0	5.1	0.6	0.3
20		1.5	10.7	42.4	97.2	181.8	1187.7	3680.3	3680.3	1187.7	181.8	97.2	42.4	10.7	1.5	
10	0.4	2.3	13.8	57.0	115.5	364.3	3490.7	10461.9	10461.9	3490.7	364.3	115.5	57.0	13.8	2.3	0.4
0		2.9	14.8	57.1	115.2	347.2	3283.1	9514.9	9514.9	3283.1	347.2	115.2	57.1	14.8	2.9	
-10	0.6	3.4	14.2	45.7	97.4	168.9	965.8	2796.6	2796.6	965.8	168.9	97.4	45.7	14.2	3.4	0.6
-20		3.5	13.3	32.4	87.3	130.3	198.0	382.8	382.8	198.0	130.3	87.3	32.4	13.3	3.5	
-30	0.5	3.0	11.5	24.4	60.9	126.6	164.4	183.8	183.8	164.4	126.6	60.9	24.4	11.5	3.0	0.5
-40		2.1	8.6	20.0	36.0	61.0	104.3	139.0	139.0	104.3	61.0	36.0	20.0	8.6	2.1	
-50	0.4	1.1	5.1	13.3	25.7	38.8	50.6	57.2	57.2	50.6	38.8	25.7	13.3	5.1	1.1	0.4
-60		0.4	1.7	5.4	11.3	18.1	24.9	28.8	28.8	24.9	18.1	11.3	5.4	1.7	0.4	
-70	0.2	0.4	1.7	5.4	11.3	18.1	24.9	28.8	28.8	24.9	18.1	11.3	5.4	1.7	0.4	0.2
-80		0.2	1.3	3.8	8.9	12.0	8.9	3.8	1.3	0.2						
-90	0.2		1.3		3.8		8.9		12.0		8.9		3.8		1.3	

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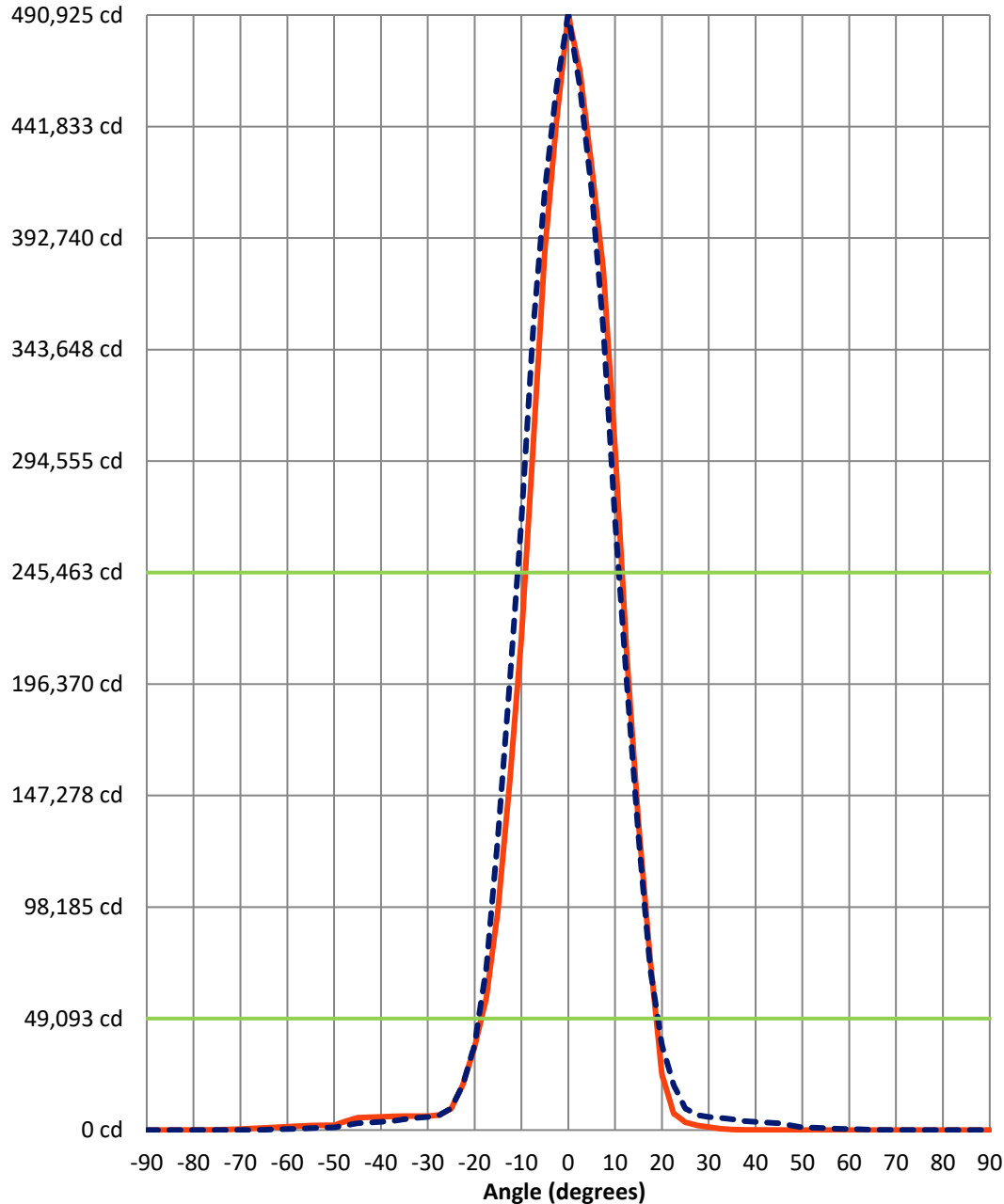
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 21.6°
V Angle: 20.7°
Lumens: 36861.9
Efficiency: 46.4%

Field:
H Angle: 38.3°
V Angle: 37.3°
Lumens: 67108.7
Efficiency: 84.5%

Spill:
Lumens: 12274.4
Efficiency: 15.5%

— 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°	5.8	6.8	7.8	8.3	8.8	9.2	9.7	10.2	10.7	11.2	11.7
87.5°	5.8	5.8	5.8	5.4	5.0	4.7	4.4	4.3	4.2	4.1	3.9
85°	5.8	5.9	5.8	5.5	5.2	5.0	4.9	4.8	4.6	4.3	3.9
82.5°	5.8	5.9	5.8	5.5	5.4	5.3	5.4	5.2	4.9	4.6	4.4
80°	5.8	6.0	5.8	5.6	5.5	5.6	5.8	5.5	5.2	5.1	5.2
77.5°	5.8	6.0	5.8	5.6	5.7	5.8	5.8	5.6	5.5	5.7	5.8
75°	5.8	6.1	5.8	5.7	5.8	6.0	5.9	5.7	5.8	5.8	5.8
72.5°	5.8	6.1	5.9	5.8	6.0	6.1	5.9	5.8	5.8	5.8	5.8
70°	5.8	6.2	5.9	5.8	6.2	6.3	6.0	5.8	5.8	5.8	5.9
67.5°	5.8	6.2	5.9	6.0	6.4	6.4	6.0	5.8	5.8	6.1	6.0
65°	5.8	6.3	6.0	6.2	6.6	6.5	6.1	5.8	6.2	6.4	6.2
62.5°	5.8	6.3	6.0	6.4	6.8	6.6	6.1	6.2	6.7	6.8	6.3
60°	5.8	6.4	6.1	6.6	7.1	6.6	6.2	6.7	7.2	6.9	6.4
57.5°	5.8	6.4	6.2	6.9	7.1	6.7	6.6	7.3	7.4	6.9	7.0
55°	5.8	6.5	6.4	7.1	7.2	6.7	7.1	7.8	7.5	7.2	7.8
52.5°	5.8	6.5	6.6	7.3	7.2	6.9	7.6	8.0	7.6	7.9	8.6
50°	5.8	6.6	6.7	7.5	7.3	7.3	8.1	8.1	7.8	8.6	10.6
47.5°	5.8	6.7	6.8	7.7	7.3	7.6	8.5	8.2	8.4	9.3	12.4
45°	5.8	6.7	7.0	7.7	7.4	8.0	8.6	8.3	9.1	10.7	14.0
42.5°	5.8	6.8	7.1	7.8	7.4	8.4	8.7	8.7	9.8	11.9	16.1
40°	5.8	6.8	7.2	7.8	7.6	8.8	8.8	9.3	10.7	12.9	18.3
37.5°	5.8	6.9	7.3	7.9	7.9	9.1	8.9	10.0	11.8	14.5	20.3
35°	5.8	7.0	7.4	7.9	8.2	9.3	9.0	10.7	12.9	16.8	22.0
32.5°	5.8	7.0	7.5	8.0	8.4	9.4	9.2	11.4	14.0	19.2	24.4
30°	5.8	7.1	7.5	8.1	8.7	9.4	9.8	12.2	15.0	21.6	26.9
27.5°	5.8	7.2	7.6	8.2	8.9	9.5	10.4	13.1	16.4	24.1	29.6
25°	5.8	7.2	7.6	8.3	9.1	9.6	11.0	13.9	18.3	26.4	32.6
22.5°	5.8	7.3	7.7	8.4	9.2	9.7	11.5	14.6	20.2	28.7	37.9
20°	5.8	7.4	7.7	8.6	9.4	9.9	12.1	15.4	22.1	31.0	43.9
17.5°	5.8	7.4	7.7	8.7	9.5	10.1	12.7	16.0	23.9	33.4	50.4
15°	5.8	7.5	7.8	8.8	9.6	10.3	13.2	16.7	25.6	35.7	57.3
12.5°	5.8	7.5	7.8	9.0	9.6	10.5	13.7	17.3	27.1	38.0	64.4
10°	5.8	7.6	7.8	9.1	9.7	10.7	14.2	17.8	28.2	41.0	71.6
7.5°	5.8	7.7	7.8	9.3	9.7	11.0	14.6	18.3	29.2	44.0	78.8
5°	5.8	7.7	7.8	9.4	9.7	11.2	15.0	18.7	30.0	47.0	85.6
2.5°	5.8	7.8	7.8	9.6	9.7	11.5	15.3	19.1	30.7	49.9	91.8
0°	5.8	7.8	7.8	9.7	9.7	11.7	15.6	19.4	31.1	52.5	97.2
-2.5°	5.8	7.8	7.9	9.8	10.0	12.3	17.1	24.0	40.5	69.1	121.2
-5°	5.8	7.9	8.0	9.9	10.4	12.9	18.6	28.3	49.5	85.0	143.8
-7.5°	5.8	7.9	8.0	10.0	10.7	13.5	19.9	32.4	57.9	99.8	164.8
-10°	5.8	7.9	8.1	10.1	11.0	14.0	21.1	36.1	65.5	113.1	183.7
-12.5°	5.8	8.0	8.2	10.2	11.3	14.5	22.2	39.2	71.9	124.6	199.7
-15°	5.8	8.0	8.3	10.3	11.6	14.9	23.0	41.7	78.3	134.4	212.8
-17.5°	5.8	8.0	8.4	10.3	11.9	15.3	23.7	44.6	84.5	142.5	222.7
-20°	5.8	8.0	8.5	10.4	12.1	15.6	24.4	47.4	89.3	148.9	229.1



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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	5.8	8.0	8.5	10.4	12.3	15.8	25.3	49.1	92.3	153.4	231.8
-25°	5.8	8.0	8.6	10.4	12.4	16.1	25.7	49.5	93.5	156.0	230.5
-27.5°	5.8	8.0	8.7	10.4	12.5	16.3	25.5	48.7	92.7	156.9	232.3
-30°	5.8	8.0	8.8	10.4	12.6	16.4	24.7	46.4	91.2	155.7	231.8
-32.5°	5.8	8.0	8.8	10.4	12.7	16.4	23.3	45.0	88.6	151.9	228.7
-35°	5.8	8.0	8.9	10.3	12.9	16.2	22.7	43.3	83.9	145.2	223.0
-37.5°	5.8	8.0	9.0	10.3	12.9	16.1	22.5	40.6	77.0	135.6	209.2
-40°	5.8	8.0	9.0	10.2	13.0	16.2	22.1	36.9	68.1	125.3	192.2
-42.5°	5.8	7.9	9.1	10.2	12.9	16.2	21.5	32.1	61.0	111.0	172.4
-45°	5.8	7.9	9.1	10.1	12.9	16.1	20.7	28.5	54.4	94.6	150.5
-47.5°	5.8	7.9	9.2	10.1	12.8	16.0	19.8	27.4	46.4	76.6	129.9
-50°	5.8	7.8	9.3	10.1	12.7	15.8	19.5	26.0	36.9	65.6	107.2
-52.5°	5.8	7.8	9.3	10.2	12.5	15.6	19.2	24.4	32.3	53.5	83.6
-55°	5.8	7.7	9.4	10.3	12.3	15.3	18.8	22.7	30.0	40.5	68.6
-57.5°	5.8	7.7	9.4	10.3	12.1	15.0	18.3	22.1	27.4	35.1	52.5
-60°	5.8	7.6	9.4	10.3	11.9	14.6	17.8	21.4	25.0	31.8	39.7
-62.5°	5.8	7.6	9.3	10.3	11.8	14.2	17.3	20.5	23.9	28.2	35.4
-65°	5.8	7.5	9.2	10.2	11.6	13.8	16.6	19.6	22.8	26.3	30.9
-67.5°	5.8	7.5	9.1	10.2	11.4	13.3	15.9	18.7	21.6	24.8	28.3
-70°	5.8	7.4	9.0	10.1	11.2	12.9	15.2	17.7	20.2	23.1	26.3
-72.5°	5.8	7.3	8.9	9.9	11.0	12.4	14.4	16.6	18.9	21.4	24.2
-75°	5.8	7.3	8.7	9.7	10.7	11.9	13.6	15.5	17.4	19.6	22.1
-77.5°	5.8	7.2	8.6	9.5	10.4	11.4	12.7	14.4	16.2	17.9	19.8
-80°	5.8	7.1	8.4	9.3	10.1	10.9	11.8	13.3	14.9	16.5	18.1
-82.5°	5.8	7.0	8.3	9.0	9.7	10.5	11.2	12.4	13.7	15.1	16.5
-85°	5.8	7.0	8.1	8.8	9.4	10.1	10.7	11.7	12.7	13.8	15.0
-87.5°	5.8	6.9	8.0	8.5	9.1	9.7	10.2	10.9	11.7	12.5	13.3
-90°	5.8	5.8	5.8	5.3	4.9	4.4	3.9	3.9	3.9	3.9	3.9



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 CATALOG NUMBER: EPH-LS-08-0680N-40-80-2S-CV1

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	11.7	11.7	11.7	11.7	12.2	12.7	13.1	13.6	14.1	14.6	15.1
87.5°	3.6	3.4	3.2	3.0	2.8	2.5	2.2	1.9	1.9	1.9	1.9
85°	3.9	3.9	3.9	3.9	3.4	2.9	2.4	1.9	1.9	1.9	1.9
82.5°	4.5	4.4	4.2	3.9	3.4	2.9	2.5	2.2	2.2	2.2	2.1
80°	5.2	4.9	4.5	4.0	3.7	3.5	3.5	3.6	3.4	3.1	2.8
77.5°	5.4	5.0	4.5	4.0	4.0	4.3	4.6	4.9	4.8	4.6	4.4
75°	5.5	5.0	4.8	4.8	5.1	5.5	5.8	5.8	5.6	5.5	5.5
72.5°	5.6	5.4	5.5	5.8	5.8	5.8	5.8	5.8	7.4	9.6	11.0
70°	5.7	5.8	5.8	5.8	5.8	6.4	9.1	12.9	16.9	19.0	21.0
67.5°	5.8	5.8	5.8	6.1	7.4	10.4	14.7	23.1	32.1	34.3	34.0
65°	5.8	5.8	6.5	7.9	9.5	16.7	25.9	36.4	44.2	43.0	40.2
62.5°	5.8	6.6	7.9	10.8	16.5	25.1	33.4	40.9	48.4	47.1	40.5
60°	6.6	7.6	10.9	16.6	22.9	29.1	37.0	41.9	46.8	47.9	36.6
57.5°	7.5	9.9	15.3	21.3	26.6	31.2	34.2	38.5	40.1	39.0	28.6
55°	9.2	13.2	19.0	24.6	28.4	27.3	29.1	30.5	29.9	27.6	20.3
52.5°	11.9	16.2	21.9	26.7	27.2	24.6	23.0	23.2	21.4	18.2	15.8
50°	14.3	19.2	24.5	27.2	26.0	22.0	18.4	17.8	16.6	15.0	13.6
47.5°	16.9	22.1	26.4	27.8	24.0	20.6	17.0	15.8	14.9	15.3	14.5
45°	19.5	24.4	28.6	26.3	23.0	20.2	18.8	15.5	17.5	18.7	19.4
42.5°	21.9	26.4	28.2	25.1	23.3	23.2	22.9	22.2	23.2	28.0	30.8
40°	23.7	28.3	28.1	27.6	25.5	29.3	32.9	35.7	35.9	42.2	47.2
37.5°	25.4	29.0	30.6	34.5	32.7	39.7	45.7	70.1	71.1	58.8	79.7
35°	26.9	30.5	40.3	51.3	55.7	54.2	88.4	120.4	128.3	115.4	137.0
32.5°	28.5	32.7	53.4	79.2	102.7	104.3	143.5	194.5	221.2	230.3	242.1
30°	31.6	44.9	73.6	114.5	170.8	216.8	235.6	290.3	339.7	438.6	507.7
27.5°	37.2	60.7	107.4	177.3	263.7	350.7	380.6	418.7	548.1	723.2	896.4
25°	44.0	94.3	145.9	260.5	392.7	489.3	527.3	578.6	823.1	1161.5	1360.6
22.5°	61.6	137.5	204.2	356.4	535.7	624.2	673.9	858.1	1232.1	1681.7	1883.3
20°	93.2	188.9	275.1	436.6	679.3	758.2	813.9	1197.1	1741.5	2168.6	2484.9
17.5°	129.7	240.5	345.6	521.0	741.5	860.2	976.6	1571.4	2275.4	2650.9	3023.5
15°	169.8	291.8	406.6	596.2	797.8	921.4	1226.8	1994.9	2758.1	3124.4	3496.0
12.5°	212.4	342.4	459.0	662.2	853.4	978.5	1454.2	2296.9	3015.9	3497.8	3943.8
10°	255.9	391.7	503.8	719.2	907.3	1031.3	1666.8	2553.6	3152.6	3581.4	4086.6
7.5°	285.2	423.9	538.6	767.5	958.4	1079.8	1859.4	2765.3	3245.4	3623.2	4072.2
5°	308.4	436.0	552.0	801.8	1000.5	1118.1	2011.2	2932.6	3301.8	3629.7	3996.9
2.5°	326.9	444.2	562.4	828.5	1034.1	1142.6	2061.5	2984.1	3313.0	3629.5	3960.8
0°	340.2	449.0	569.6	847.5	1061.4	1162.5	2072.2	2995.5	3304.6	3621.5	3975.3
-2.5°	352.3	462.8	592.0	863.8	1062.6	1164.7	2062.0	2982.3	3341.9	3709.2	4131.7
-5°	359.6	473.9	610.3	872.1	1058.4	1163.3	2015.0	2929.1	3338.1	3710.7	4157.6
-7.5°	363.1	482.3	623.9	871.1	1043.8	1147.5	1890.5	2759.0	3206.9	3557.9	4026.4
-10°	364.4	492.6	632.7	852.6	1016.5	1121.1	1729.7	2557.1	3061.8	3390.6	3845.2
-12.5°	367.6	504.5	638.4	831.8	989.4	1091.0	1547.9	2327.7	2904.6	3211.3	3638.3
-15°	367.4	513.6	641.2	810.2	964.2	1057.3	1349.3	2074.6	2787.6	3177.2	3526.2
-17.5°	364.0	519.9	641.5	789.6	942.4	1020.1	1145.1	1851.0	2690.8	3163.1	3501.8
-20°	357.7	523.6	639.5	771.3	922.2	1004.4	1106.1	1634.4	2433.6	3113.3	3492.1



REPORT NUMBER: P731622 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-2S-CV1

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	348.7	524.7	637.3	762.0	906.3	1009.4	1096.7	1397.1	2093.7	3030.6	3427.1
-25°	343.8	509.3	634.7	751.1	889.3	1015.5	1086.9	1178.2	1758.0	2614.7	3274.5
-27.5°	341.1	491.5	620.2	733.2	867.7	1014.0	1087.7	1165.0	1474.0	2139.7	3038.7
-30°	333.1	462.2	600.6	709.7	842.2	985.3	1094.8	1155.4	1242.2	1758.6	2492.2
-32.5°	316.5	431.5	568.3	684.1	808.9	951.9	1087.5	1155.1	1229.2	1382.4	1974.5
-35°	298.9	407.3	531.3	652.4	768.0	906.8	1039.3	1152.6	1216.7	1296.0	1560.7
-37.5°	284.9	380.2	493.5	613.6	727.6	852.4	986.0	1111.2	1207.0	1287.0	1387.8
-40°	267.4	350.0	458.9	571.6	683.0	798.5	923.3	1049.4	1170.3	1291.6	1383.5
-42.5°	246.3	326.6	422.8	528.7	635.5	746.4	858.0	979.6	1120.6	1273.3	1391.3
-45°	221.2	299.3	385.0	483.1	583.5	690.1	798.0	907.9	1056.6	1213.6	1361.4
-47.5°	192.9	268.0	349.6	434.0	528.9	628.2	733.3	848.3	978.8	1128.6	1289.7
-50°	163.1	232.7	308.9	387.3	471.8	563.7	660.8	776.9	899.7	1031.0	1176.4
-52.5°	135.0	194.0	264.5	339.3	415.9	498.2	589.2	693.1	808.3	930.5	1052.7
-55°	104.5	157.7	216.5	286.5	360.0	434.0	513.6	605.8	705.9	817.4	926.9
-57.5°	81.0	119.9	170.6	229.1	297.6	369.4	439.8	514.7	602.4	697.4	789.7
-60°	61.3	88.0	125.5	174.9	229.9	294.5	362.1	430.3	500.8	571.5	650.2
-62.5°	43.4	64.0	88.8	121.6	168.6	216.6	273.1	336.0	402.5	463.1	521.1
-65°	38.0	44.1	61.0	84.1	108.3	148.0	190.8	234.8	289.7	344.0	399.3
-67.5°	32.3	37.9	43.4	52.1	73.0	93.7	114.5	151.8	189.9	224.6	261.6
-70°	29.3	32.1	36.6	41.5	46.3	54.9	73.0	90.9	108.3	129.0	158.2
-72.5°	26.7	29.0	31.6	34.3	38.4	42.7	46.8	50.8	61.1	75.3	88.7
-75°	24.1	25.9	28.0	30.2	32.6	35.1	37.9	41.5	44.8	47.9	51.2
-77.5°	21.5	23.1	24.7	26.2	27.8	29.8	31.9	34.1	36.0	37.8	39.7
-80°	19.2	20.3	21.6	23.0	24.1	25.2	26.4	27.7	28.8	29.8	31.0
-82.5°	17.2	18.0	18.8	19.7	20.4	21.0	21.6	22.3	23.4	24.3	25.2
-85°	15.3	15.6	16.0	16.4	17.2	17.9	18.5	19.1	19.6	20.1	20.6
-87.5°	13.5	13.6	13.8	13.9	14.5	15.2	15.8	16.4	16.6	16.8	17.0
-90°	3.4	2.9	2.4	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9



REPORT NUMBER: P731622 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-2S-CV1

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	15.6	15.6	15.6	15.6	15.6	16.1	16.6	17.0	17.5	17.5	17.5
87.5°	1.9	1.8	1.8	1.7	1.7	1.3	0.9	0.5	0.0	0.0	0.0
85°	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
80°	2.5	2.5	2.4	2.2	1.9	1.9	1.9	1.9	1.9	1.9	1.9
77.5°	4.2	3.8	3.4	2.8	2.1	1.9	1.9	1.9	1.9	1.9	1.9
75°	5.6	5.5	5.3	4.8	4.0	3.8	3.8	3.8	3.6	3.6	3.7
72.5°	11.8	11.7	11.0	10.1	8.7	8.0	7.9	7.6	7.1	6.8	6.6
70°	21.5	20.8	19.6	17.4	14.5	12.5	11.4	10.0	8.4	7.7	7.7
67.5°	31.0	27.8	25.1	22.1	18.2	15.0	13.2	11.5	9.9	9.1	8.7
65°	35.7	28.6	23.8	20.1	17.3	14.6	12.6	10.8	9.2	8.2	8.0
62.5°	32.8	23.8	18.8	15.8	13.3	11.5	10.1	8.7	7.3	6.5	6.8
60°	26.8	18.4	14.1	12.4	10.9	9.8	8.5	7.4	6.4	5.9	6.5
57.5°	20.5	14.7	11.6	10.8	9.7	8.4	7.5	7.2	7.1	7.1	7.5
55°	15.3	13.0	11.7	10.4	9.1	8.2	7.9	8.1	8.1	7.8	7.8
52.5°	13.1	12.0	10.6	9.4	9.2	9.3	9.6	9.2	9.0	9.0	9.2
50°	12.7	11.7	10.7	9.7	10.0	10.1	9.8	10.1	10.7	10.9	11.1
47.5°	13.8	13.0	13.7	11.5	12.0	13.4	13.5	13.8	15.5	16.3	16.6
45°	18.1	22.1	22.1	20.4	19.6	28.4	29.0	24.3	39.5	37.9	26.7
42.5°	33.5	35.6	35.7	44.6	60.4	68.8	91.3	127.0	118.9	92.3	55.8
40°	55.4	52.7	64.3	82.5	100.9	122.5	153.2	214.0	203.7	163.0	179.2
37.5°	95.7	95.7	101.3	126.7	133.7	115.1	163.6	158.1	125.9	177.2	187.5
35°	175.1	192.7	163.5	202.8	208.0	191.4	200.7	221.9	191.9	229.7	245.8
32.5°	314.4	347.0	351.2	360.9	389.8	412.0	405.8	457.6	460.1	509.0	575.9
30°	502.6	570.0	639.8	650.7	686.8	745.3	774.8	879.1	989.6	1061.9	1194.7
27.5°	883.5	900.1	1040.6	1151.1	1107.1	1194.8	1414.3	1541.5	1752.7	1878.5	2012.2
25°	1419.0	1464.9	1662.6	1866.4	1893.6	1973.6	2292.5	2474.5	2692.1	2819.2	3095.0
22.5°	2098.5	2296.1	2513.8	2781.8	2891.8	3080.0	3390.0	3656.9	4110.3	4671.2	5879.9
20°	2855.6	3152.4	3445.2	3680.6	3907.3	4206.7	4583.8	5872.0	7398.3	11997.0	15170.0
17.5°	3503.4	3989.6	4269.4	4497.4	4781.9	5359.5	6856.7	10652.6	17972.6	28211.2	37583.1
15°	4007.2	4461.2	4911.1	5196.8	5641.5	6920.0	9966.4	19275.7	34443.8	51727.3	72642.0
12.5°	4406.5	4783.5	5161.5	5581.9	6403.6	8895.2	16645.8	31022.4	53079.5	81017.2	118095.3
10°	4622.2	4999.5	5364.1	5962.7	7483.8	12020.7	22882.9	41842.2	76460.7	120093.3	167346.6
7.5°	4620.7	5080.6	5531.5	6261.6	8584.7	15755.6	30230.0	55885.8	96833.4	151536.2	212370.6
5°	4618.1	5174.7	5647.1	6471.0	9273.3	18304.4	34790.4	63663.3	113422.0	175154.2	240292.9
2.5°	4662.9	5275.5	5721.8	6608.9	9592.3	19672.1	37320.2	69806.2	125019.5	188597.2	258203.0
0°	4768.4	5365.2	5765.6	6622.9	9554.3	19954.1	37614.4	71292.4	129483.0	197028.5	268456.1
-2.5°	4942.8	5352.3	5740.8	6566.9	9426.8	19372.0	36927.2	69996.0	124311.0	187646.4	256775.1
-5°	4837.8	5168.5	5512.2	6255.4	8801.6	17331.7	33263.2	62635.0	109026.0	165901.5	225119.8
-7.5°	4568.3	4903.4	5221.8	5862.8	7900.4	14302.6	27209.7	50316.2	86550.7	130845.0	177357.2
-10°	4322.7	4623.2	4922.9	5435.7	6750.5	10490.4	19470.9	35609.6	63192.0	96582.1	132126.9
-12.5°	4133.5	4386.0	4616.8	4960.5	5691.6	7780.5	14165.3	26143.3	42434.6	63692.5	89706.1
-15°	3967.1	4163.3	4333.2	4663.8	5207.3	6298.6	8826.5	15669.4	25820.5	39215.3	53419.6
-17.5°	3813.1	4001.3	4201.9	4453.8	4796.0	5319.9	6772.1	9650.4	15506.7	24256.6	32633.8
-20°	3734.3	3964.7	4137.1	4334.2	4624.6	5027.2	5537.5	6965.3	9379.0	14756.5	20203.4



REPORT NUMBER: P731622 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-2S-CV1

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3672.2	3891.9	4088.6	4317.3	4615.5	4933.3	5208.7	5644.8	6783.6	8472.4	11284.3
-25°	3596.5	3813.1	4104.1	4436.9	4693.1	4933.4	5073.2	5164.1	5652.8	6135.5	7211.9
-27.5°	3452.9	3796.1	4223.4	4582.8	4858.5	5007.6	5120.2	5193.8	5486.8	5774.6	6087.8
-30°	3324.5	3850.7	4312.1	4729.9	4969.9	5152.0	5298.8	5431.6	5634.1	5877.8	5991.7
-32.5°	2868.9	3835.9	4349.1	4733.7	4980.4	5195.2	5421.4	5544.1	5722.5	5901.0	6044.9
-35°	2253.4	3236.1	4309.0	4529.3	4774.1	5054.3	5325.9	5500.5	5682.1	5866.0	6035.5
-37.5°	1688.0	2422.9	3293.1	4088.9	4417.4	4704.2	5037.7	5306.6	5544.3	5744.7	5937.8
-40°	1479.6	1678.9	2319.1	2951.1	3622.4	4238.5	4568.2	4928.2	5285.8	5533.4	5753.8
-42.5°	1477.3	1553.6	1619.0	2042.7	2559.1	3089.0	3649.7	4172.2	4754.1	5161.8	5471.2
-45°	1486.8	1546.2	1607.1	1668.5	1724.9	2114.7	2523.6	2938.1	3545.3	4148.1	4669.2
-47.5°	1416.1	1530.7	1603.7	1662.5	1718.3	1773.0	1826.5	1938.3	2326.4	2737.3	3112.8
-50°	1303.7	1422.0	1530.6	1639.6	1703.5	1757.6	1815.7	1879.6	1941.7	2004.8	2046.8
-52.5°	1166.2	1282.5	1395.5	1498.9	1592.0	1683.5	1775.0	1849.2	1915.6	1980.2	2012.4
-55°	1034.5	1139.2	1242.2	1333.2	1424.0	1514.2	1605.2	1695.7	1785.6	1873.8	1919.0
-57.5°	888.4	990.1	1087.0	1163.6	1240.7	1317.7	1400.3	1485.3	1567.3	1642.4	1682.0
-60°	733.4	820.5	903.5	977.8	1050.0	1119.6	1189.6	1260.6	1329.9	1391.0	1426.9
-62.5°	579.1	646.4	715.6	780.4	841.9	901.3	965.2	1026.2	1083.9	1132.5	1166.4
-65°	453.4	503.7	548.0	592.8	638.4	690.5	743.2	793.0	839.7	878.3	907.2
-67.5°	307.9	354.1	394.7	432.9	467.8	503.3	541.1	577.4	611.7	640.1	662.5
-70°	186.2	212.2	235.4	261.1	291.6	321.5	351.4	379.0	404.1	424.7	441.0
-72.5°	101.2	112.2	124.0	142.5	159.5	176.5	193.2	208.6	222.6	234.9	245.7
-75°	54.4	59.2	67.7	75.4	82.2	89.1	95.7	101.8	107.3	111.9	115.6
-77.5°	42.0	44.3	46.4	48.3	49.9	51.4	52.8	54.2	55.6	56.9	58.1
-80°	32.3	33.9	35.4	36.9	38.3	39.3	40.2	40.9	41.4	42.3	43.1
-82.5°	26.0	26.6	27.4	28.1	28.9	29.7	30.4	31.2	32.0	32.3	32.6
-85°	21.2	21.5	21.7	22.0	22.2	22.5	22.7	22.9	23.0	23.1	23.2
-87.5°	17.2	17.2	17.2	17.3	17.3	17.8	18.3	18.8	19.3	19.4	19.4
-90°	1.9	1.4	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731622 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-2S-CV1

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.0
87.5°	0.0	0.0	0.9	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.5
85°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
75°	3.8	3.9	3.9	3.9	3.9	3.9	3.8	3.7	3.6	3.6	3.8
72.5°	6.2	5.8	5.8	5.8	5.8	5.8	6.2	6.6	6.8	7.1	7.6
70°	7.7	7.7	7.8	7.8	7.8	7.7	7.7	7.7	7.7	8.4	10.0
67.5°	8.3	7.9	6.9	5.8	6.9	7.9	8.3	8.7	9.1	9.9	11.5
65°	7.9	7.8	6.9	5.8	6.9	7.8	7.9	8.0	8.2	9.2	10.8
62.5°	7.2	7.7	6.9	5.8	6.9	7.7	7.2	6.8	6.5	7.3	8.7
60°	7.1	7.6	7.8	7.8	7.8	7.6	7.1	6.5	5.9	6.4	7.4
57.5°	7.7	7.8	7.8	7.8	7.8	7.8	7.7	7.5	7.1	7.1	7.2
55°	7.8	7.8	8.5	9.7	8.5	7.8	7.8	7.8	7.8	8.1	8.1
52.5°	9.4	9.6	9.7	9.7	9.7	9.6	9.4	9.2	9.0	9.0	9.2
50°	11.4	11.6	11.7	11.7	11.7	11.6	11.4	11.1	10.9	10.7	10.1
47.5°	16.5	15.9	15.5	15.6	15.5	15.9	16.5	16.6	16.3	15.5	13.8
45°	27.1	27.0	26.9	27.2	26.9	27.0	27.1	26.7	37.9	39.5	24.3
42.5°	54.4	49.0	44.8	46.7	44.8	49.0	54.4	55.8	92.3	118.9	127.0
40°	160.0	109.9	63.6	64.1	63.6	109.9	160.0	179.2	163.0	203.7	214.0
37.5°	149.5	120.6	108.8	106.9	108.8	120.6	149.5	187.5	177.2	125.9	158.1
35°	246.6	245.1	234.4	233.3	234.4	245.1	246.6	245.8	229.7	191.9	221.9
32.5°	601.7	626.4	618.5	608.4	618.5	626.4	601.7	575.9	509.0	460.1	457.6
30°	1257.8	1312.6	1301.5	1331.6	1301.5	1312.6	1257.8	1194.7	1061.9	989.6	879.1
27.5°	2086.3	2122.1	2085.1	2074.1	2085.1	2122.1	2086.3	2012.2	1878.5	1752.7	1541.5
25°	3283.5	3353.0	3385.0	3450.4	3385.0	3353.0	3283.5	3095.0	2819.2	2692.1	2474.5
22.5°	7382.6	7812.8	7591.9	7394.6	7591.9	7812.8	7382.6	5879.9	4671.2	4110.3	3656.9
20°	21665.8	25492.4	25210.4	24706.9	25210.4	25492.4	21665.8	15170.0	11997.0	7398.3	5872.0
17.5°	52242.7	63998.7	71319.8	75172.4	71319.8	63998.7	52242.7	37583.1	28211.2	17972.6	10652.6
15°	97463.1	117236.6	128846.6	135431.3	128846.6	117236.6	97463.1	72642.0	51727.3	34443.8	19275.7
12.5°	153741.4	184733.6	205294.1	209224.6	205294.1	184733.6	153741.4	118095.3	81017.2	53079.5	31022.4
10°	215711.4	255405.4	288142.0	300081.3	288142.0	255405.4	215711.4	167346.6	120093.3	76460.7	41842.2
7.5°	268635.8	319289.9	362759.3	378220.2	362759.3	319289.9	268635.8	212370.6	151536.2	96833.4	55885.8
5°	307120.3	374314.9	413662.0	424278.8	413662.0	374314.9	307120.3	240292.9	175154.2	113422.0	63663.3
2.5°	338446.8	402231.1	444416.5	466166.9	444416.5	402231.1	338446.8	258203.0	188597.2	125019.5	69806.2
0°	352220.5	413517.4	459014.3	490925.3	459014.3	413517.4	352220.5	268456.1	197028.5	129483.0	71292.4
-2.5°	335293.7	397978.4	430342.6	444329.2	430342.6	397978.4	335293.7	256775.1	187646.4	124311.0	69996.0
-5°	285069.8	344161.4	376689.7	387024.1	376689.7	344161.4	285069.8	225119.8	165901.5	109026.0	62635.0
-7.5°	222366.3	263305.0	291369.5	301150.5	291369.5	263305.0	222366.3	177357.2	130845.0	86550.7	50316.2
-10°	167437.0	196797.0	211836.4	216919.5	211836.4	196797.0	167437.0	132126.9	96582.1	63192.0	35609.6
-12.5°	114971.3	137073.7	146795.2	153182.0	146795.2	137073.7	114971.3	89706.1	63692.5	42434.6	26143.3
-15°	70722.0	85131.1	92786.1	97156.0	92786.1	85131.1	70722.0	53419.6	39215.3	25820.5	15669.4
-17.5°	42967.3	50799.7	55872.7	58171.1	55872.7	50799.7	42967.3	32633.8	24256.6	15506.7	9650.4
-20°	26675.2	31890.1	34852.2	36551.1	34852.2	31890.1	26675.2	20203.4	14756.5	9379.0	6965.3



REPORT NUMBER: P731622 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-2S-CV1

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	14985.3	17846.7	19451.3	20010.5	19451.3	17846.7	14985.3	11284.3	8472.4	6783.6	5644.8
-25°	8333.2	9061.5	9380.2	9455.1	9380.2	9061.5	8333.2	7211.9	6135.5	5652.8	5164.1
-27.5°	6359.3	6514.6	6613.0	6642.3	6613.0	6514.6	6359.3	6087.8	5774.6	5486.8	5193.8
-30°	6100.0	6116.2	6143.3	6138.8	6143.3	6116.2	6100.0	5991.7	5877.8	5634.1	5431.6
-32.5°	6146.3	6152.3	6157.8	6148.5	6157.8	6152.3	6146.3	6044.9	5901.0	5722.5	5544.1
-35°	6128.0	6145.6	6159.4	6166.0	6159.4	6145.6	6128.0	6035.5	5866.0	5682.1	5500.5
-37.5°	6014.6	6038.9	6050.8	6039.7	6050.8	6038.9	6014.6	5937.8	5744.7	5544.3	5306.6
-40°	5806.7	5824.2	5825.3	5816.1	5825.3	5824.2	5806.7	5753.8	5533.4	5285.8	4928.2
-42.5°	5565.5	5626.9	5655.9	5656.7	5655.9	5626.9	5565.5	5471.2	5161.8	4754.1	4172.2
-45°	4999.5	5255.7	5407.8	5444.9	5407.8	5255.7	4999.5	4669.2	4148.1	3545.3	2938.1
-47.5°	3412.9	3667.4	3833.0	3895.6	3833.0	3667.4	3412.9	3112.8	2737.3	2326.4	1938.3
-50°	2077.4	2108.3	2121.8	2118.8	2121.8	2108.3	2077.4	2046.8	2004.8	1941.7	1879.6
-52.5°	2037.1	2061.5	2076.5	2083.9	2076.5	2061.5	2037.1	2012.4	1980.2	1915.6	1849.2
-55°	1956.1	1986.6	2002.4	2006.1	2002.4	1986.6	1956.1	1919.0	1873.8	1785.6	1695.7
-57.5°	1715.2	1741.8	1757.0	1763.1	1757.0	1741.8	1715.2	1682.0	1642.4	1567.3	1485.3
-60°	1455.9	1478.2	1487.9	1489.0	1487.9	1478.2	1455.9	1426.9	1391.0	1329.9	1260.6
-62.5°	1194.5	1216.7	1224.0	1222.7	1224.0	1216.7	1194.5	1166.4	1132.5	1083.9	1026.2
-65°	931.3	950.6	954.4	950.6	954.4	950.6	931.3	907.2	878.3	839.7	793.0
-67.5°	681.4	696.4	700.8	699.8	700.8	696.4	681.4	662.5	640.1	611.7	577.4
-70°	454.0	463.7	463.4	458.8	463.4	463.7	454.0	441.0	424.7	404.1	379.0
-72.5°	254.8	262.1	268.1	272.1	268.1	262.1	254.8	245.7	234.9	222.6	208.6
-75°	118.7	121.0	124.0	126.4	124.0	121.0	118.7	115.6	111.9	107.3	101.8
-77.5°	59.1	60.0	61.1	62.2	61.1	60.0	59.1	58.1	56.9	55.6	54.2
-80°	43.8	44.5	44.7	44.7	44.7	44.5	43.8	43.1	42.3	41.4	40.9
-82.5°	32.7	32.9	33.0	33.0	33.0	32.9	32.7	32.6	32.3	32.0	31.2
-85°	23.2	23.3	24.3	25.3	24.3	23.3	23.2	23.2	23.1	23.0	22.9
-87.5°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.3	18.8
-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: P731622 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-2S-CV1

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	16.6	16.1	15.6	15.6	15.6	15.6	15.6	15.1	14.6	14.1	13.6
87.5°	0.9	1.3	1.7	1.7	1.8	1.8	1.9	1.9	1.9	1.9	1.9
85°	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.1	2.2	2.2	2.2
80°	1.9	1.9	1.9	2.2	2.4	2.5	2.5	2.8	3.1	3.4	3.6
77.5°	1.9	1.9	2.1	2.8	3.4	3.8	4.2	4.4	4.6	4.8	4.9
75°	3.8	3.8	4.0	4.8	5.3	5.5	5.6	5.5	5.5	5.6	5.8
72.5°	7.9	8.0	8.7	10.1	11.0	11.7	11.8	11.0	9.6	7.4	5.8
70°	11.4	12.5	14.5	17.4	19.6	20.8	21.5	21.0	19.0	16.9	12.9
67.5°	13.2	15.0	18.2	22.1	25.1	27.8	31.0	34.0	34.3	32.1	23.1
65°	12.6	14.6	17.3	20.1	23.8	28.6	35.7	40.2	43.0	44.2	36.4
62.5°	10.1	11.5	13.3	15.8	18.8	23.8	32.8	40.5	47.1	48.4	40.9
60°	8.5	9.8	10.9	12.4	14.1	18.4	26.8	36.6	47.9	46.8	41.9
57.5°	7.5	8.4	9.7	10.8	11.6	14.7	20.5	28.6	39.0	40.1	38.5
55°	7.9	8.2	9.1	10.4	11.7	13.0	15.3	20.3	27.6	29.9	30.5
52.5°	9.6	9.3	9.2	9.4	10.6	12.0	13.1	15.8	18.2	21.4	23.2
50°	9.8	10.1	10.0	9.7	10.7	11.7	12.7	13.6	15.0	16.6	17.8
47.5°	13.5	13.4	12.0	11.5	13.7	13.0	13.8	14.5	15.3	14.9	15.8
45°	29.0	28.4	19.6	20.4	22.1	22.1	18.1	19.4	18.7	17.5	15.5
42.5°	91.3	68.8	60.4	44.6	35.7	35.6	33.5	30.8	28.0	23.2	22.2
40°	153.2	122.5	100.9	82.5	64.3	52.7	55.4	47.2	42.2	35.9	35.7
37.5°	163.6	115.1	133.7	126.7	101.3	95.7	95.7	79.7	58.8	71.1	70.1
35°	200.7	191.4	208.0	202.8	163.5	192.7	175.1	137.0	115.4	128.3	120.4
32.5°	405.8	412.0	389.8	360.9	351.2	347.0	314.4	242.1	230.3	221.2	194.5
30°	774.8	745.3	686.8	650.7	639.8	570.0	502.6	507.7	438.6	339.7	290.3
27.5°	1414.3	1194.8	1107.1	1151.1	1040.6	900.1	883.5	896.4	723.2	548.1	418.7
25°	2292.5	1973.6	1893.6	1866.4	1662.6	1464.9	1419.0	1360.6	1161.5	823.1	578.6
22.5°	3390.0	3080.0	2891.8	2781.8	2513.8	2296.1	2098.5	1883.3	1681.7	1232.1	858.1
20°	4583.8	4206.7	3907.3	3680.6	3445.2	3152.4	2855.6	2484.9	2168.6	1741.5	1197.1
17.5°	6856.7	5359.5	4781.9	4497.4	4269.4	3989.6	3503.4	3023.5	2650.9	2275.4	1571.4
15°	9966.4	6920.0	5641.5	5196.8	4911.1	4461.2	4007.2	3496.0	3124.4	2758.1	1994.9
12.5°	16645.8	8895.2	6403.6	5581.9	5161.5	4783.5	4406.5	3943.8	3497.8	3015.9	2296.9
10°	22882.9	12020.7	7483.8	5962.7	5364.1	4999.5	4622.2	4086.6	3581.4	3152.6	2553.6
7.5°	30230.0	15755.6	8584.7	6261.6	5531.5	5080.6	4620.7	4072.2	3623.2	3245.4	2765.3
5°	34790.4	18304.4	9273.3	6471.0	5647.1	5174.7	4618.1	3996.9	3629.7	3301.8	2932.6
2.5°	37320.2	19672.1	9592.3	6608.9	5721.8	5275.5	4662.9	3960.8	3629.5	3313.0	2984.1
0°	37614.4	19954.1	9554.3	6622.9	5765.6	5365.2	4768.4	3975.3	3621.5	3304.6	2995.5
-2.5°	36927.2	19372.0	9426.8	6566.9	5740.8	5352.3	4942.8	4131.7	3709.2	3341.9	2982.3
-5°	33263.2	17331.7	8801.6	6255.4	5512.2	5168.5	4837.8	4157.6	3710.7	3338.1	2929.1
-7.5°	27209.7	14302.6	7900.4	5862.8	5221.8	4903.4	4568.3	4026.4	3557.9	3206.9	2759.0
-10°	19470.9	10490.4	6750.5	5435.7	4922.9	4623.2	4322.7	3845.2	3390.6	3061.8	2557.1
-12.5°	14165.3	7780.5	5691.6	4960.5	4616.8	4386.0	4133.5	3638.3	3211.3	2904.6	2327.7
-15°	8826.5	6298.6	5207.3	4663.8	4333.2	4163.3	3967.1	3526.2	3177.2	2787.6	2074.6
-17.5°	6772.1	5319.9	4796.0	4453.8	4201.9	4001.3	3813.1	3501.8	3163.1	2690.8	1851.0
-20°	5537.5	5027.2	4624.6	4334.2	4137.1	3964.7	3734.3	3492.1	3113.3	2433.6	1634.4



REPORT NUMBER: P731622 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-2S-CV1

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	5208.7	4933.3	4615.5	4317.3	4088.6	3891.9	3672.2	3427.1	3030.6	2093.7	1397.1
-25°	5073.2	4933.4	4693.1	4436.9	4104.1	3813.1	3596.5	3274.5	2614.7	1758.0	1178.2
-27.5°	5120.2	5007.6	4858.5	4582.8	4223.4	3796.1	3452.9	3038.7	2139.7	1474.0	1165.0
-30°	5298.8	5152.0	4969.9	4729.9	4312.1	3850.7	3324.5	2492.2	1758.6	1242.2	1155.4
-32.5°	5421.4	5195.2	4980.4	4733.7	4349.1	3835.9	2868.9	1974.5	1382.4	1229.2	1155.1
-35°	5325.9	5054.3	4774.1	4529.3	4309.0	3236.1	2253.4	1560.7	1296.0	1216.7	1152.6
-37.5°	5037.7	4704.2	4417.4	4088.9	3293.1	2422.9	1688.0	1387.8	1287.0	1207.0	1111.2
-40°	4568.2	4238.5	3622.4	2951.1	2319.1	1678.9	1479.6	1383.5	1291.6	1170.3	1049.4
-42.5°	3649.7	3089.0	2559.1	2042.7	1619.0	1553.6	1477.3	1391.3	1273.3	1120.6	979.6
-45°	2523.6	2114.7	1724.9	1668.5	1607.1	1546.2	1486.8	1361.4	1213.6	1056.6	907.9
-47.5°	1826.5	1773.0	1718.3	1662.5	1603.7	1530.7	1416.1	1289.7	1128.6	978.8	848.3
-50°	1815.7	1757.6	1703.5	1639.6	1530.6	1422.0	1303.7	1176.4	1031.0	899.7	776.9
-52.5°	1775.0	1683.5	1592.0	1498.9	1395.5	1282.5	1166.2	1052.7	930.5	808.3	693.1
-55°	1605.2	1514.2	1424.0	1333.2	1242.2	1139.2	1034.5	926.9	817.4	705.9	605.8
-57.5°	1400.3	1317.7	1240.7	1163.6	1087.0	990.1	888.4	789.7	697.4	602.4	514.7
-60°	1189.6	1119.6	1050.0	977.8	903.5	820.5	733.4	650.2	571.5	500.8	430.3
-62.5°	965.2	901.3	841.9	780.4	715.6	646.4	579.1	521.1	463.1	402.5	336.0
-65°	743.2	690.5	638.4	592.8	548.0	503.7	453.4	399.3	344.0	289.7	234.8
-67.5°	541.1	503.3	467.8	432.9	394.7	354.1	307.9	261.6	224.6	189.9	151.8
-70°	351.4	321.5	291.6	261.1	235.4	212.2	186.2	158.2	129.0	108.3	90.9
-72.5°	193.2	176.5	159.5	142.5	124.0	112.2	101.2	88.7	75.3	61.1	50.8
-75°	95.7	89.1	82.2	75.4	67.7	59.2	54.4	51.2	47.9	44.8	41.5
-77.5°	52.8	51.4	49.9	48.3	46.4	44.3	42.0	39.7	37.8	36.0	34.1
-80°	40.2	39.3	38.3	36.9	35.4	33.9	32.3	31.0	29.8	28.8	27.7
-82.5°	30.4	29.7	28.9	28.1	27.4	26.6	26.0	25.2	24.3	23.4	22.3
-85°	22.7	22.5	22.2	22.0	21.7	21.5	21.2	20.6	20.1	19.6	19.1
-87.5°	18.3	17.8	17.3	17.3	17.2	17.2	17.2	17.0	16.8	16.6	16.4
-90°	0.0	0.0	0.0	0.5	1.0	1.4	1.9	1.9	1.9	1.9	1.9



REPORT NUMBER: P731622 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-2S-CV1

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	13.1	12.7	12.2	11.7	11.7	11.7	11.7	11.7	11.2	10.7	10.2
87.5°	2.2	2.5	2.8	3.0	3.2	3.4	3.6	3.9	4.1	4.2	4.3
85°	2.4	2.9	3.4	3.9	3.9	3.9	3.9	3.9	4.3	4.6	4.8
82.5°	2.5	2.9	3.4	3.9	4.2	4.4	4.5	4.4	4.6	4.9	5.2
80°	3.5	3.5	3.7	4.0	4.5	4.9	5.2	5.2	5.1	5.2	5.5
77.5°	4.6	4.3	4.0	4.0	4.5	5.0	5.4	5.8	5.7	5.5	5.6
75°	5.8	5.5	5.1	4.8	4.8	5.0	5.5	5.8	5.8	5.8	5.7
72.5°	5.8	5.8	5.8	5.8	5.5	5.4	5.6	5.8	5.8	5.8	5.8
70°	9.1	6.4	5.8	5.8	5.8	5.8	5.7	5.9	5.8	5.8	5.8
67.5°	14.7	10.4	7.4	6.1	5.8	5.8	5.8	6.0	6.1	5.8	5.8
65°	25.9	16.7	9.5	7.9	6.5	5.8	5.8	6.2	6.4	6.2	5.8
62.5°	33.4	25.1	16.5	10.8	7.9	6.6	5.8	6.3	6.8	6.7	6.2
60°	37.0	29.1	22.9	16.6	10.9	7.6	6.6	6.4	6.9	7.2	6.7
57.5°	34.2	31.2	26.6	21.3	15.3	9.9	7.5	7.0	6.9	7.4	7.3
55°	29.1	27.3	28.4	24.6	19.0	13.2	9.2	7.8	7.2	7.5	7.8
52.5°	23.0	24.6	27.2	26.7	21.9	16.2	11.9	8.6	7.9	7.6	8.0
50°	18.4	22.0	26.0	27.2	24.5	19.2	14.3	10.6	8.6	7.8	8.1
47.5°	17.0	20.6	24.0	27.8	26.4	22.1	16.9	12.4	9.3	8.4	8.2
45°	18.8	20.2	23.0	26.3	28.6	24.4	19.5	14.0	10.7	9.1	8.3
42.5°	22.9	23.2	23.3	25.1	28.2	26.4	21.9	16.1	11.9	9.8	8.7
40°	32.9	29.3	25.5	27.6	28.1	28.3	23.7	18.3	12.9	10.7	9.3
37.5°	45.7	39.7	32.7	34.5	30.6	29.0	25.4	20.3	14.5	11.8	10.0
35°	88.4	54.2	55.7	51.3	40.3	30.5	26.9	22.0	16.8	12.9	10.7
32.5°	143.5	104.3	102.7	79.2	53.4	32.7	28.5	24.4	19.2	14.0	11.4
30°	235.6	216.8	170.8	114.5	73.6	44.9	31.6	26.9	21.6	15.0	12.2
27.5°	380.6	350.7	263.7	177.3	107.4	60.7	37.2	29.6	24.1	16.4	13.1
25°	527.3	489.3	392.7	260.5	145.9	94.3	44.0	32.6	26.4	18.3	13.9
22.5°	673.9	624.2	535.7	356.4	204.2	137.5	61.6	37.9	28.7	20.2	14.6
20°	813.9	758.2	679.3	436.6	275.1	188.9	93.2	43.9	31.0	22.1	15.4
17.5°	976.6	860.2	741.5	521.0	345.6	240.5	129.7	50.4	33.4	23.9	16.0
15°	1226.8	921.4	797.8	596.2	406.6	291.8	169.8	57.3	35.7	25.6	16.7
12.5°	1454.2	978.5	853.4	662.2	459.0	342.4	212.4	64.4	38.0	27.1	17.3
10°	1666.8	1031.3	907.3	719.2	503.8	391.7	255.9	71.6	41.0	28.2	17.8
7.5°	1859.4	1079.8	958.4	767.5	538.6	423.9	285.2	78.8	44.0	29.2	18.3
5°	2011.2	1118.1	1000.5	801.8	552.0	436.0	308.4	85.6	47.0	30.0	18.7
2.5°	2061.5	1142.6	1034.1	828.5	562.4	444.2	326.9	91.8	49.9	30.7	19.1
0°	2072.2	1162.5	1061.4	847.5	569.6	449.0	340.2	97.2	52.5	31.1	19.4
-2.5°	2062.0	1164.7	1062.6	863.8	592.0	462.8	352.3	121.2	69.1	40.5	24.0
-5°	2015.0	1163.3	1058.4	872.1	610.3	473.9	359.6	143.8	85.0	49.5	28.3
-7.5°	1890.5	1147.5	1043.8	871.1	623.9	482.3	363.1	164.8	99.8	57.9	32.4
-10°	1729.7	1121.1	1016.5	852.6	632.7	492.6	364.4	183.7	113.1	65.5	36.1
-12.5°	1547.9	1091.0	989.4	831.8	638.4	504.5	367.6	199.7	124.6	71.9	39.2
-15°	1349.3	1057.3	964.2	810.2	641.2	513.6	367.4	212.8	134.4	78.3	41.7
-17.5°	1145.1	1020.1	942.4	789.6	641.5	519.9	364.0	222.7	142.5	84.5	44.6
-20°	1106.1	1004.4	922.2	771.3	639.5	523.6	357.7	229.1	148.9	89.3	47.4



REPORT NUMBER: P731622 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-2S-CV1

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1096.7	1009.4	906.3	762.0	637.3	524.7	348.7	231.8	153.4	92.3	49.1
-25°	1086.9	1015.5	889.3	751.1	634.7	509.3	343.8	230.5	156.0	93.5	49.5
-27.5°	1087.7	1014.0	867.7	733.2	620.2	491.5	341.1	232.3	156.9	92.7	48.7
-30°	1094.8	985.3	842.2	709.7	600.6	462.2	333.1	231.8	155.7	91.2	46.4
-32.5°	1087.5	951.9	808.9	684.1	568.3	431.5	316.5	228.7	151.9	88.6	45.0
-35°	1039.3	906.8	768.0	652.4	531.3	407.3	298.9	223.0	145.2	83.9	43.3
-37.5°	986.0	852.4	727.6	613.6	493.5	380.2	284.9	209.2	135.6	77.0	40.6
-40°	923.3	798.5	683.0	571.6	458.9	350.0	267.4	192.2	125.3	68.1	36.9
-42.5°	858.0	746.4	635.5	528.7	422.8	326.6	246.3	172.4	111.0	61.0	32.1
-45°	798.0	690.1	583.5	483.1	385.0	299.3	221.2	150.5	94.6	54.4	28.5
-47.5°	733.3	628.2	528.9	434.0	349.6	268.0	192.9	129.9	76.6	46.4	27.4
-50°	660.8	563.7	471.8	387.3	308.9	232.7	163.1	107.2	65.6	36.9	26.0
-52.5°	589.2	498.2	415.9	339.3	264.5	194.0	135.0	83.6	53.5	32.3	24.4
-55°	513.6	434.0	360.0	286.5	216.5	157.7	104.5	68.6	40.5	30.0	22.7
-57.5°	439.8	369.4	297.6	229.1	170.6	119.9	81.0	52.5	35.1	27.4	22.1
-60°	362.1	294.5	229.9	174.9	125.5	88.0	61.3	39.7	31.8	25.0	21.4
-62.5°	273.1	216.6	168.6	121.6	88.8	64.0	43.4	35.4	28.2	23.9	20.5
-65°	190.8	148.0	108.3	84.1	61.0	44.1	38.0	30.9	26.3	22.8	19.6
-67.5°	114.5	93.7	73.0	52.1	43.4	37.9	32.3	28.3	24.8	21.6	18.7
-70°	73.0	54.9	46.3	41.5	36.6	32.1	29.3	26.3	23.1	20.2	17.7
-72.5°	46.8	42.7	38.4	34.3	31.6	29.0	26.7	24.2	21.4	18.9	16.6
-75°	37.9	35.1	32.6	30.2	28.0	25.9	24.1	22.1	19.6	17.4	15.5
-77.5°	31.9	29.8	27.8	26.2	24.7	23.1	21.5	19.8	17.9	16.2	14.4
-80°	26.4	25.2	24.1	23.0	21.6	20.3	19.2	18.1	16.5	14.9	13.3
-82.5°	21.6	21.0	20.4	19.7	18.8	18.0	17.2	16.5	15.1	13.7	12.4
-85°	18.5	17.9	17.2	16.4	16.0	15.6	15.3	15.0	13.8	12.7	11.7
-87.5°	15.8	15.2	14.5	13.9	13.8	13.6	13.5	13.3	12.5	11.7	10.9
-90°	1.9	1.9	1.9	1.9	2.4	2.9	3.4	3.9	3.9	3.9	3.9



REPORT NUMBER: P731622 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-2S-CV1

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	9.7	9.2	8.8	8.3	7.8	6.8	5.8
87.5°	4.4	4.7	5.0	5.4	5.8	5.8	5.8
85°	4.9	5.0	5.2	5.5	5.8	5.9	5.8
82.5°	5.4	5.3	5.4	5.5	5.8	5.9	5.8
80°	5.8	5.6	5.5	5.6	5.8	6.0	5.8
77.5°	5.8	5.8	5.7	5.6	5.8	6.0	5.8
75°	5.9	6.0	5.8	5.7	5.8	6.1	5.8
72.5°	5.9	6.1	6.0	5.8	5.9	6.1	5.8
70°	6.0	6.3	6.2	5.8	5.9	6.2	5.8
67.5°	6.0	6.4	6.4	6.0	5.9	6.2	5.8
65°	6.1	6.5	6.6	6.2	6.0	6.3	5.8
62.5°	6.1	6.6	6.8	6.4	6.0	6.3	5.8
60°	6.2	6.6	7.1	6.6	6.1	6.4	5.8
57.5°	6.6	6.7	7.1	6.9	6.2	6.4	5.8
55°	7.1	6.7	7.2	7.1	6.4	6.5	5.8
52.5°	7.6	6.9	7.2	7.3	6.6	6.5	5.8
50°	8.1	7.3	7.3	7.5	6.7	6.6	5.8
47.5°	8.5	7.6	7.3	7.7	6.8	6.7	5.8
45°	8.6	8.0	7.4	7.7	7.0	6.7	5.8
42.5°	8.7	8.4	7.4	7.8	7.1	6.8	5.8
40°	8.8	8.8	7.6	7.8	7.2	6.8	5.8
37.5°	8.9	9.1	7.9	7.9	7.3	6.9	5.8
35°	9.0	9.3	8.2	7.9	7.4	7.0	5.8
32.5°	9.2	9.4	8.4	8.0	7.5	7.0	5.8
30°	9.8	9.4	8.7	8.1	7.5	7.1	5.8
27.5°	10.4	9.5	8.9	8.2	7.6	7.2	5.8
25°	11.0	9.6	9.1	8.3	7.6	7.2	5.8
22.5°	11.5	9.7	9.2	8.4	7.7	7.3	5.8
20°	12.1	9.9	9.4	8.6	7.7	7.4	5.8
17.5°	12.7	10.1	9.5	8.7	7.7	7.4	5.8
15°	13.2	10.3	9.6	8.8	7.8	7.5	5.8
12.5°	13.7	10.5	9.6	9.0	7.8	7.5	5.8
10°	14.2	10.7	9.7	9.1	7.8	7.6	5.8
7.5°	14.6	11.0	9.7	9.3	7.8	7.7	5.8
5°	15.0	11.2	9.7	9.4	7.8	7.7	5.8
2.5°	15.3	11.5	9.7	9.6	7.8	7.8	5.8
0°	15.6	11.7	9.7	9.7	7.8	7.8	5.8
-2.5°	17.1	12.3	10.0	9.8	7.9	7.8	5.8
-5°	18.6	12.9	10.4	9.9	8.0	7.9	5.8
-7.5°	19.9	13.5	10.7	10.0	8.0	7.9	5.8
-10°	21.1	14.0	11.0	10.1	8.1	7.9	5.8
-12.5°	22.2	14.5	11.3	10.2	8.2	8.0	5.8
-15°	23.0	14.9	11.6	10.3	8.3	8.0	5.8
-17.5°	23.7	15.3	11.9	10.3	8.4	8.0	5.8
-20°	24.4	15.6	12.1	10.4	8.5	8.0	5.8



REPORT NUMBER: P731622 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-2S-CV1

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	25.3	15.8	12.3	10.4	8.5	8.0	5.8
-25°	25.7	16.1	12.4	10.4	8.6	8.0	5.8
-27.5°	25.5	16.3	12.5	10.4	8.7	8.0	5.8
-30°	24.7	16.4	12.6	10.4	8.8	8.0	5.8
-32.5°	23.3	16.4	12.7	10.4	8.8	8.0	5.8
-35°	22.7	16.2	12.9	10.3	8.9	8.0	5.8
-37.5°	22.5	16.1	12.9	10.3	9.0	8.0	5.8
-40°	22.1	16.2	13.0	10.2	9.0	8.0	5.8
-42.5°	21.5	16.2	12.9	10.2	9.1	7.9	5.8
-45°	20.7	16.1	12.9	10.1	9.1	7.9	5.8
-47.5°	19.8	16.0	12.8	10.1	9.2	7.9	5.8
-50°	19.5	15.8	12.7	10.1	9.3	7.8	5.8
-52.5°	19.2	15.6	12.5	10.2	9.3	7.8	5.8
-55°	18.8	15.3	12.3	10.3	9.4	7.7	5.8
-57.5°	18.3	15.0	12.1	10.3	9.4	7.7	5.8
-60°	17.8	14.6	11.9	10.3	9.4	7.6	5.8
-62.5°	17.3	14.2	11.8	10.3	9.3	7.6	5.8
-65°	16.6	13.8	11.6	10.2	9.2	7.5	5.8
-67.5°	15.9	13.3	11.4	10.2	9.1	7.5	5.8
-70°	15.2	12.9	11.2	10.1	9.0	7.4	5.8
-72.5°	14.4	12.4	11.0	9.9	8.9	7.3	5.8
-75°	13.6	11.9	10.7	9.7	8.7	7.3	5.8
-77.5°	12.7	11.4	10.4	9.5	8.6	7.2	5.8
-80°	11.8	10.9	10.1	9.3	8.4	7.1	5.8
-82.5°	11.2	10.5	9.7	9.0	8.3	7.0	5.8
-85°	10.7	10.1	9.4	8.8	8.1	7.0	5.8
-87.5°	10.2	9.7	9.1	8.5	8.0	6.9	5.8
-90°	3.9	4.4	4.9	5.3	5.8	5.8	5.8

(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

