

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: P731306 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-70-1S-CV1**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731306 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-133-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-40-70-1S-CV1
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 1S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

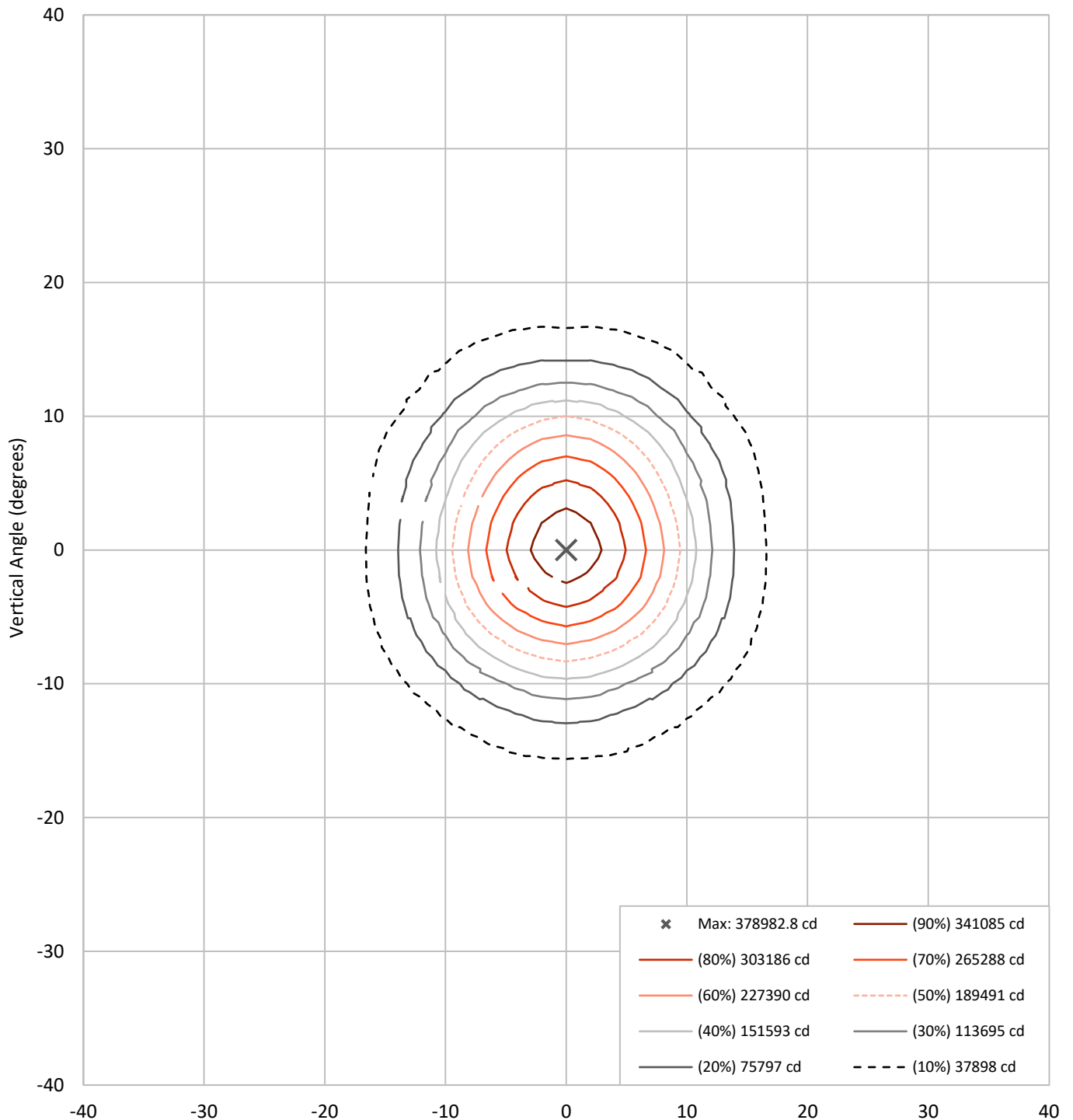
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	45649.1 lumens	Max Intensity:	378982.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	133.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	18.9°H x 18.3°V	Field Angle (10%):	33°H x 31.9°V
Beam Lumens:	21298.5 lumens	Field Lumens:	38683.9 lumens
Beam Efficiency:	46.7%	Field Efficiency:	84.7%

Input Watts (W): 343.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-CV1

Iso-Candela Plot





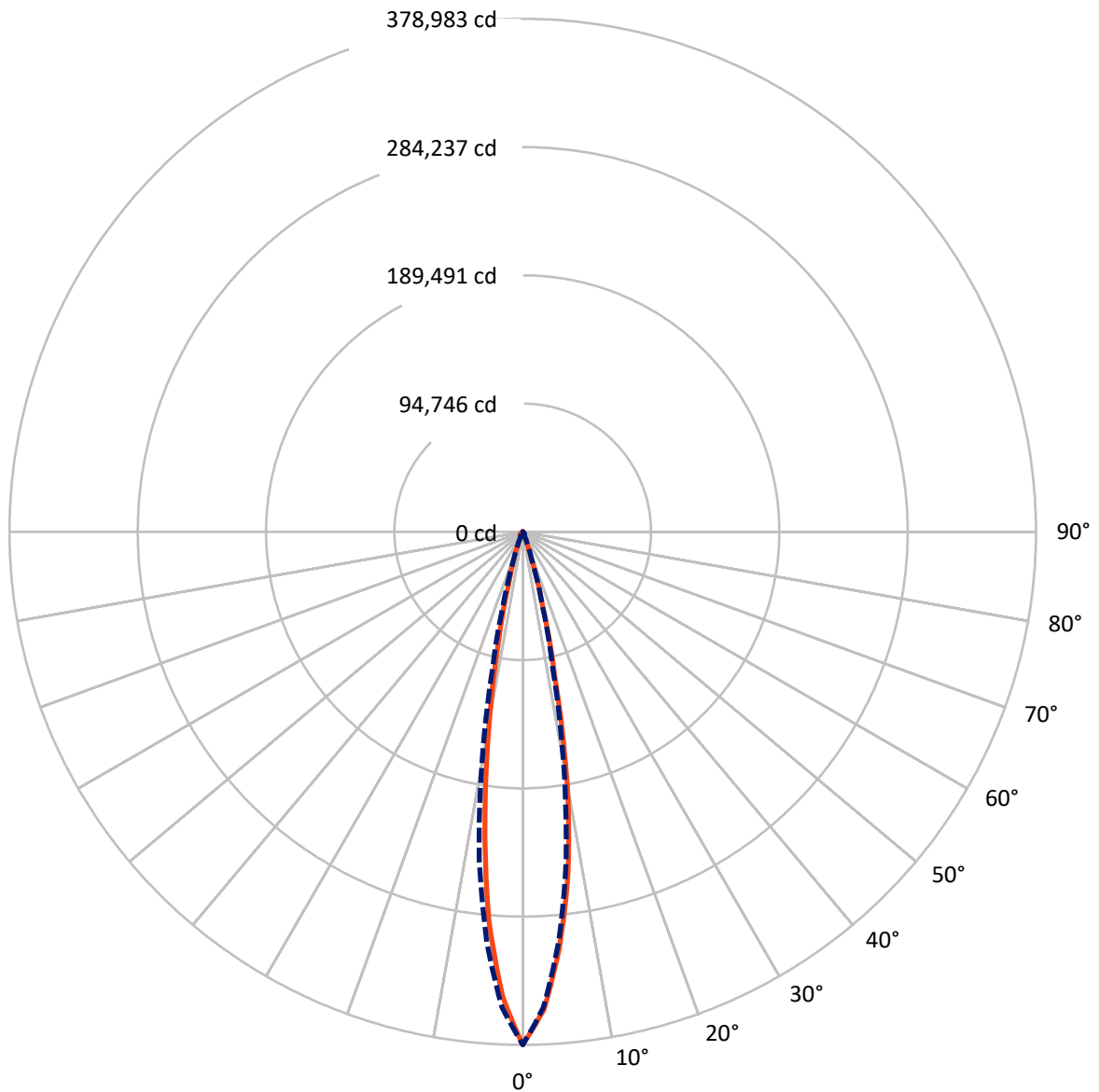
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Lumen Table

90	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1					
80	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1					
70	0.1	0.0	0.1	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.1	0.0	0.1
60		0.1	0.2	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.2	0.1	
50	0.1	0.1	0.3	0.3	0.3	0.5	0.8	0.6	0.6	0.8	0.5	0.3	0.3	0.3	0.1	0.1
40		0.2	0.5	1.3	2.5	3.6	5.2	6.4	6.4	5.2	3.6	2.5	1.3	0.5	0.2	
30	0.2	0.3	2.5	7.9	18.6	25.3	40.5	72.3	72.3	40.5	25.3	18.6	7.9	2.5	0.3	0.2
20		0.8	5.3	22.8	45.9	60.7	444.0	1789.2	1789.2	444.0	60.7	45.9	22.8	5.3	0.8	
10	0.2	1.2	6.8	30.7	51.0	111.5	1663.3	7183.3	7183.3	1663.3	111.5	51.0	30.7	6.8	1.2	0.2
0		1.5	7.2	30.2	51.0	108.3	1591.3	6654.3	6654.3	1591.3	108.3	51.0	30.2	7.2	1.5	
-10	0.4	1.8	6.9	24.2	47.0	59.3	354.4	1328.6	1328.6	354.4	59.3	47.0	24.2	6.9	1.8	0.4
-20		1.9	6.7	16.8	46.5	58.3	66.0	114.0	114.0	66.0	58.3	46.5	16.8	6.7	1.9	
-30	0.3	1.6	6.1	11.8	33.0	68.4	80.1	82.6	82.6	80.1	68.4	33.0	11.8	6.1	1.6	0.3
-40		1.1	4.7	10.4	17.5	31.5	57.1	77.4	77.4	57.1	31.5	17.5	10.4	4.7	1.1	
-50	0.2	0.6	2.7	7.0	13.4	19.4	24.5	27.6	27.6	24.5	19.4	13.4	7.0	2.7	0.6	0.2
-60		0.3	0.9	2.8	5.7	9.4	13.0	15.1	15.1	13.0	9.4	5.7	2.8	0.9	0.3	
-70	0.1	0.7	2.1	4.8	6.4	4.8	2.1	0.7	0.1						0.1	
-80		0.1	0.7	2.1	4.8	6.4	4.8	2.1	0.7	0.1						
-90	0.1	0.7	2.1	4.8	6.4	4.8	2.1	0.7	0.1							

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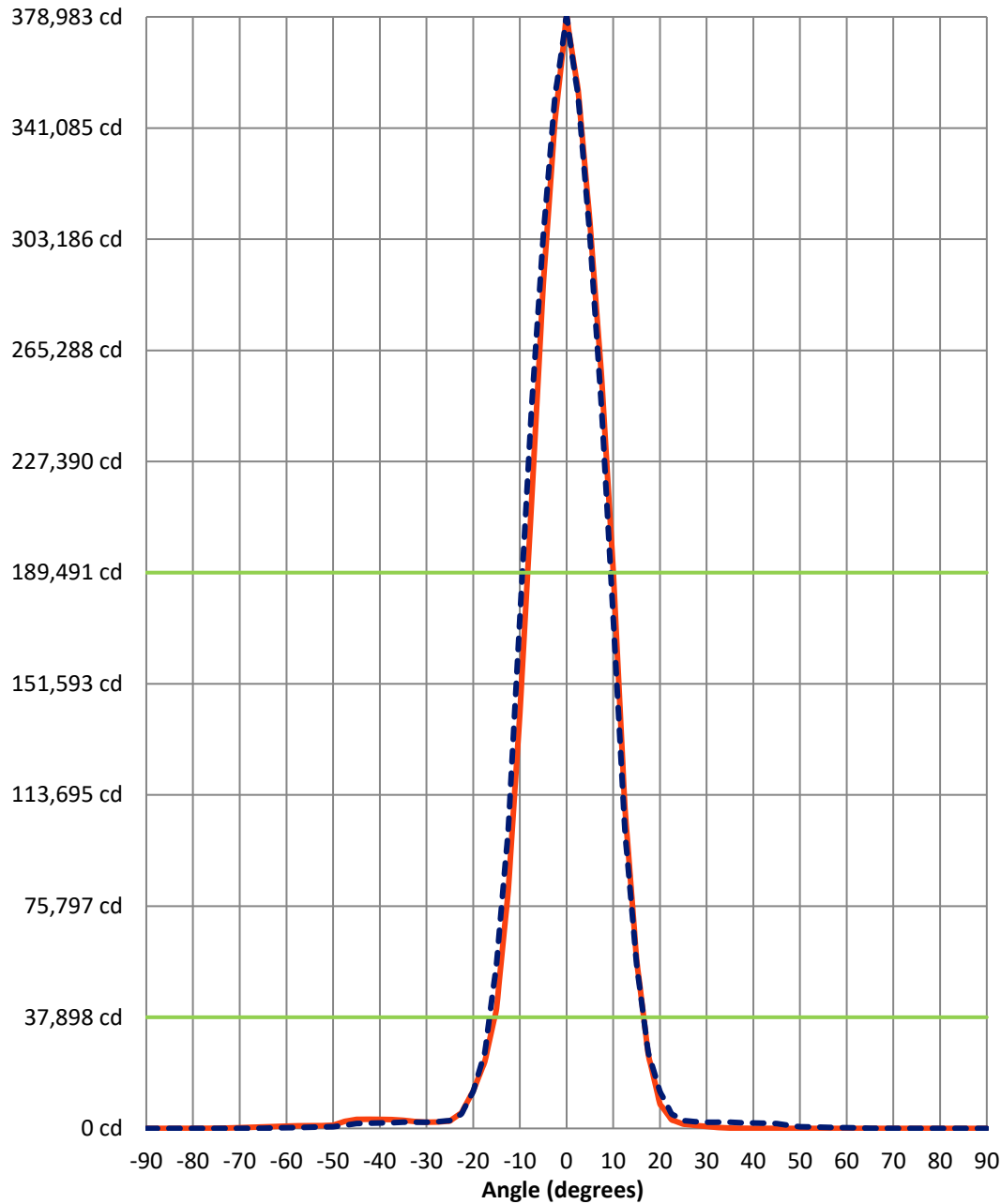
Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-CV1

Luminous Intensity Plot



Beam:
 H Angle: 18.9°
 V Angle: 18.3°
 Lumens: 21298.5
 Efficiency: 46.7%

Field:
 H Angle: 33°
 V Angle: 31.9°
 Lumens: 38683.9
 Efficiency: 84.7%

Spill:
 Lumens: 6965.1
 Efficiency: 15.3%

— 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°	2.7	2.7	2.7	3.2	3.7	4.1	4.6	5.1	5.5	6.0	6.4
87.5°	2.7	2.7	2.7	2.5	2.3	2.2	2.0	2.0	2.0	1.9	1.8
85°	2.7	2.7	2.7	2.5	2.4	2.3	2.3	2.2	2.1	2.0	1.8
82.5°	2.7	2.8	2.7	2.6	2.5	2.5	2.5	2.4	2.3	2.2	2.1
80°	2.7	2.8	2.7	2.6	2.6	2.6	2.7	2.7	2.6	2.5	2.4
77.5°	2.7	2.8	2.7	2.6	2.6	2.8	3.0	3.0	3.0	2.9	2.8
75°	2.7	2.8	2.7	2.7	2.7	3.0	3.2	3.3	3.3	3.0	2.8
72.5°	2.7	2.9	2.7	2.7	2.9	3.2	3.5	3.5	3.3	3.0	2.8
70°	2.7	2.9	2.7	2.7	3.1	3.4	3.7	3.5	3.3	3.1	3.2
67.5°	2.7	2.9	2.8	2.8	3.2	3.6	3.7	3.6	3.3	3.5	3.6
65°	2.7	2.9	2.8	3.0	3.4	3.7	3.8	3.6	3.7	3.8	3.9
62.5°	2.7	3.0	2.8	3.1	3.5	3.8	3.8	3.8	4.0	4.2	4.0
60°	2.7	3.0	2.8	3.2	3.7	3.9	3.9	4.1	4.3	4.4	4.2
57.5°	2.7	3.0	2.9	3.3	3.8	4.0	4.1	4.4	4.6	4.6	4.6
55°	2.7	3.0	3.0	3.4	3.9	4.1	4.3	4.6	4.9	4.9	5.0
52.5°	2.7	3.1	3.1	3.5	4.0	4.2	4.5	4.9	5.1	5.3	5.4
50°	2.7	3.1	3.2	3.6	4.1	4.4	4.8	5.2	5.5	5.7	6.2
47.5°	2.7	3.1	3.3	3.7	4.2	4.5	5.0	5.5	5.8	6.0	7.1
45°	2.7	3.2	3.4	3.8	4.3	4.7	5.3	5.8	6.1	6.7	7.8
42.5°	2.7	3.2	3.5	3.9	4.4	4.9	5.6	6.1	6.5	7.3	9.2
40°	2.7	3.2	3.6	4.0	4.5	5.1	5.9	6.4	6.9	7.9	10.7
37.5°	2.7	3.3	3.7	4.1	4.6	5.2	6.2	6.7	7.5	8.8	12.0
35°	2.7	3.3	3.7	4.2	4.8	5.4	6.5	7.0	8.1	10.1	13.1
32.5°	2.7	3.3	3.8	4.3	4.9	5.7	6.8	7.3	8.7	11.3	14.2
30°	2.7	3.3	3.9	4.5	5.0	5.9	7.0	7.6	9.3	12.5	15.5
27.5°	2.7	3.4	4.0	4.6	5.2	6.2	7.2	8.1	10.0	13.6	17.0
25°	2.7	3.4	4.0	4.7	5.3	6.4	7.4	8.6	11.0	14.8	18.8
22.5°	2.7	3.4	4.1	4.8	5.4	6.6	7.6	9.0	11.8	16.1	21.4
20°	2.7	3.5	4.2	4.9	5.6	6.8	7.8	9.5	12.7	17.5	24.2
17.5°	2.7	3.5	4.2	5.0	5.7	6.9	8.0	10.0	13.4	18.9	27.2
15°	2.7	3.5	4.3	5.1	5.8	7.0	8.2	10.4	14.1	20.4	30.3
12.5°	2.7	3.6	4.4	5.1	5.9	7.1	8.3	10.7	14.8	21.8	33.5
10°	2.7	3.6	4.4	5.2	6.0	7.2	8.5	11.0	15.4	23.2	36.6
7.5°	2.7	3.6	4.5	5.3	6.1	7.2	8.7	11.3	16.0	24.4	39.7
5°	2.7	3.7	4.5	5.4	6.2	7.3	8.8	11.5	16.5	25.6	42.6
2.5°	2.7	3.7	4.6	5.4	6.3	7.3	9.0	11.7	17.0	26.6	45.2
0°	2.7	3.7	4.6	5.5	6.4	7.3	9.1	11.9	17.4	27.4	47.5
-2.5°	2.7	3.7	4.6	5.6	6.6	7.7	9.9	14.2	22.3	36.2	61.1
-5°	2.7	3.7	4.7	5.6	6.7	8.1	10.8	16.3	27.0	44.6	74.0
-7.5°	2.7	3.7	4.7	5.7	6.8	8.5	11.5	18.4	31.4	52.4	86.0
-10°	2.7	3.8	4.7	5.7	7.0	8.8	12.2	20.2	35.3	59.5	96.8
-12.5°	2.7	3.8	4.8	5.7	7.1	9.1	12.8	21.7	38.7	65.7	105.8
-15°	2.7	3.8	4.8	5.8	7.2	9.4	13.4	23.0	41.9	71.2	113.2
-17.5°	2.7	3.8	4.8	5.8	7.2	9.6	13.8	24.4	45.1	75.8	119.0
-20°	2.7	3.8	4.8	5.8	7.3	9.7	14.2	25.8	47.4	79.2	122.9



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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-CV1

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	2.7	3.8	4.8	5.8	7.3	9.8	14.7	26.5	48.8	81.4	124.9
-25°	2.7	3.8	4.8	5.8	7.3	9.9	15.0	26.7	49.3	82.3	124.8
-27.5°	2.7	3.8	4.8	5.8	7.3	10.0	14.9	26.2	48.7	82.2	125.4
-30°	2.7	3.8	4.8	5.8	7.2	9.9	14.6	25.0	47.8	81.4	124.4
-32.5°	2.7	3.7	4.8	5.8	7.2	9.9	14.0	24.3	46.4	79.2	121.5
-35°	2.7	3.7	4.8	5.8	7.2	9.7	13.7	23.6	43.9	75.5	116.9
-37.5°	2.7	3.7	4.8	5.8	7.2	9.6	13.5	22.4	40.3	70.2	109.4
-40°	2.7	3.7	4.8	5.7	7.1	9.5	13.2	20.7	35.7	64.8	100.8
-42.5°	2.7	3.7	4.7	5.7	7.0	9.3	12.8	18.5	32.3	57.7	90.5
-45°	2.7	3.6	4.7	5.7	7.0	9.2	12.3	16.8	29.2	49.5	79.1
-47.5°	2.7	3.6	4.7	5.7	6.9	8.9	11.7	16.1	25.5	40.4	68.6
-50°	2.7	3.6	4.6	5.6	6.9	8.6	11.3	15.3	21.1	35.3	57.0
-52.5°	2.7	3.5	4.6	5.6	6.8	8.3	10.9	14.3	18.9	29.7	44.9
-55°	2.7	3.5	4.6	5.5	6.7	8.1	10.4	13.3	17.6	23.5	37.7
-57.5°	2.7	3.4	4.5	5.4	6.6	8.0	9.9	12.6	16.2	20.7	29.8
-60°	2.7	3.4	4.5	5.3	6.5	7.8	9.3	11.9	14.8	18.9	23.5
-62.5°	2.7	3.3	4.4	5.2	6.3	7.6	9.1	11.1	14.0	17.0	21.2
-65°	2.7	3.3	4.2	5.1	6.1	7.4	8.7	10.4	13.0	15.8	18.8
-67.5°	2.7	3.2	4.1	5.0	5.9	7.1	8.4	10.0	12.1	14.7	17.2
-70°	2.7	3.2	4.0	4.8	5.6	6.7	8.0	9.5	11.4	13.5	16.0
-72.5°	2.7	3.1	3.8	4.6	5.3	6.3	7.5	9.0	10.7	12.6	14.7
-75°	2.7	3.1	3.7	4.4	5.1	5.9	6.9	8.3	9.9	11.6	13.4
-77.5°	2.7	3.0	3.5	4.2	4.8	5.4	6.2	7.6	9.1	10.5	12.1
-80°	2.7	3.0	3.4	4.0	4.6	5.1	5.6	6.8	8.2	9.5	10.9
-82.5°	2.7	2.9	3.2	3.8	4.4	4.9	5.3	6.2	7.3	8.5	9.8
-85°	2.7	2.8	3.0	3.6	4.1	4.6	5.1	5.8	6.7	7.6	8.7
-87.5°	2.7	2.8	2.9	3.4	3.9	4.4	4.8	5.5	6.1	6.8	7.5
-90°	2.7	2.7	2.7	2.5	2.3	2.0	1.8	1.8	1.8	1.8	1.8



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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-CV1

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	6.4	6.4	6.4	6.4	6.6	6.9	7.1	7.3	7.5	7.8	8.0
87.5°	1.7	1.6	1.5	1.4	1.3	1.2	1.1	0.9	0.9	0.9	0.9
85°	1.8	1.8	1.8	1.8	1.6	1.5	1.4	1.3	1.2	1.1	1.0
82.5°	2.1	2.0	1.9	1.8	1.8	1.8	1.8	1.8	1.6	1.5	1.4
80°	2.4	2.3	2.2	2.1	2.1	2.1	2.0	1.8	1.8	1.9	2.0
77.5°	2.6	2.5	2.5	2.6	2.5	2.4	2.3	2.3	2.4	2.5	2.7
75°	2.7	2.7	2.8	2.7	2.6	2.6	2.7	2.9	3.0	3.0	3.0
72.5°	2.9	3.0	3.0	2.8	2.9	3.2	3.4	3.6	4.0	4.5	5.0
70°	3.3	3.3	3.2	3.3	3.5	3.9	4.7	5.7	6.7	7.8	9.5
67.5°	3.6	3.5	3.6	3.8	4.4	5.3	6.4	10.1	14.3	16.1	16.6
65°	3.7	3.7	4.0	4.7	5.4	8.3	12.3	17.3	22.0	22.5	21.7
62.5°	3.7	4.1	4.7	6.0	8.7	12.6	16.9	21.6	26.9	27.1	23.8
60°	4.1	4.5	5.9	8.5	11.7	15.2	20.0	23.7	28.1	30.2	23.0
57.5°	4.6	5.4	7.7	10.8	14.0	16.6	19.1	23.1	25.4	25.8	19.0
55°	5.3	6.5	9.4	13.0	15.3	14.7	16.8	19.0	19.9	18.5	13.2
52.5°	6.4	7.8	11.5	14.6	15.1	13.8	13.8	14.9	13.8	11.9	10.3
50°	7.4	10.1	13.5	15.4	15.0	13.2	11.1	10.9	10.5	9.9	8.9
47.5°	9.1	12.3	15.2	16.3	14.4	12.5	10.1	9.8	9.8	9.4	8.5
45°	10.9	13.9	17.0	15.8	14.1	12.2	11.2	10.1	10.1	10.1	10.7
42.5°	12.6	15.3	16.8	15.4	14.2	13.7	13.5	12.1	12.0	14.4	15.3
40°	13.8	16.5	16.8	16.5	15.3	16.6	17.0	17.1	17.8	20.5	21.8
37.5°	14.7	16.9	18.0	19.7	18.5	20.5	21.5	31.5	32.7	27.6	37.9
35°	15.5	17.8	22.4	27.3	28.9	25.8	38.9	52.5	57.3	54.2	65.8
32.5°	16.3	19.0	28.3	40.2	51.1	48.4	61.1	84.8	100.0	107.7	116.9
30°	18.0	24.5	37.6	56.6	84.7	101.5	102.5	127.7	155.6	205.0	249.7
27.5°	20.8	31.8	53.3	87.7	131.0	166.1	172.7	189.0	252.8	346.4	464.3
25°	24.1	49.4	71.4	129.9	193.7	233.3	244.8	272.5	383.1	598.0	714.4
22.5°	33.0	72.9	102.0	179.1	264.0	298.2	322.3	422.8	622.7	906.6	994.0
20°	50.0	100.2	139.9	221.4	335.0	362.3	398.5	614.1	934.5	1171.0	1289.8
17.5°	69.9	127.7	177.9	263.1	363.1	413.7	490.2	833.2	1256.6	1426.5	1550.1
15°	92.2	155.2	210.8	299.9	388.0	447.8	633.8	1087.9	1529.1	1669.6	1790.6
12.5°	116.1	182.5	239.1	331.8	412.5	479.5	764.5	1267.0	1660.2	1858.8	2014.7
10°	140.7	209.3	263.4	359.1	436.3	508.6	886.9	1420.4	1726.4	1890.9	2062.9
7.5°	156.0	226.4	282.0	382.1	459.0	535.2	997.8	1548.1	1772.0	1900.9	2028.4
5°	167.4	232.3	286.8	392.4	476.1	554.7	1081.3	1649.7	1800.9	1893.3	1968.1
2.5°	176.1	236.3	290.0	398.1	488.8	564.5	1089.2	1665.7	1792.1	1878.9	1930.4
0°	181.9	238.6	291.6	400.4	499.1	571.3	1073.1	1657.2	1772.4	1862.0	1922.3
-2.5°	188.3	245.5	304.8	407.4	500.0	571.6	1057.8	1640.8	1792.0	1912.3	2012.4
-5°	192.2	251.1	315.9	411.8	498.3	569.3	1023.3	1598.7	1789.5	1916.2	2039.0
-7.5°	194.0	255.4	324.7	413.0	491.2	558.4	964.8	1498.2	1714.3	1832.8	1984.7
-10°	194.7	260.9	328.7	406.5	477.3	541.3	886.9	1382.1	1636.5	1744.9	1904.6
-12.5°	196.5	267.5	331.3	400.2	463.2	522.3	791.6	1254.9	1558.1	1653.5	1816.1
-15°	196.5	272.7	333.1	394.6	449.5	501.8	679.7	1120.4	1515.2	1670.2	1803.9
-17.5°	194.8	276.8	334.5	390.7	436.9	479.8	556.0	1000.4	1488.2	1706.3	1838.2
-20°	191.7	279.6	335.7	389.2	426.3	469.6	530.2	866.6	1350.9	1722.6	1883.7



REPORT NUMBER: P731306 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-CV1

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	187.2	281.2	336.7	387.9	429.7	470.7	521.6	714.9	1160.2	1720.5	1885.1
-25°	185.1	273.3	336.6	387.7	434.9	472.8	511.6	570.6	955.2	1475.7	1835.1
-27.5°	184.3	264.2	330.8	383.9	439.5	476.2	509.8	557.6	759.1	1182.5	1732.7
-30°	180.7	249.3	322.4	376.3	434.9	480.1	513.1	543.4	598.9	929.9	1387.8
-32.5°	172.4	233.7	306.5	365.1	423.7	483.7	514.3	540.4	581.3	679.3	1051.2
-35°	162.7	221.3	287.6	350.9	408.2	471.2	512.4	539.8	566.6	614.0	782.7
-37.5°	153.9	207.1	268.4	332.2	389.7	448.9	508.0	537.0	564.0	597.9	662.1
-40°	143.4	191.0	250.2	310.9	368.4	425.4	482.6	533.0	560.2	604.2	646.5
-42.5°	131.3	177.5	230.7	288.9	344.0	399.9	456.0	509.9	566.3	610.5	652.8
-45°	118.1	162.2	210.0	263.0	317.1	371.6	426.0	482.1	550.1	617.4	659.8
-47.5°	102.9	145.0	190.5	234.3	286.4	339.8	393.1	451.9	519.3	589.6	665.3
-50°	87.0	125.8	167.4	207.6	251.9	303.8	356.2	415.3	478.8	546.8	618.2
-52.5°	72.4	104.6	142.1	181.0	219.6	262.9	315.3	371.4	430.8	494.8	557.2
-55°	56.5	84.9	114.7	151.3	189.2	225.9	268.6	321.1	375.9	433.8	490.1
-57.5°	44.5	64.6	89.7	118.8	154.4	191.7	228.4	268.0	316.5	367.6	414.6
-60°	34.8	47.9	66.2	90.0	116.3	150.5	186.9	222.8	260.3	297.6	338.1
-62.5°	25.8	35.9	47.6	63.0	85.2	108.5	138.7	172.3	207.1	238.1	267.5
-65°	22.9	25.9	33.9	44.6	55.6	74.8	96.1	118.5	147.7	175.0	201.6
-67.5°	19.8	22.7	25.3	29.3	38.9	48.5	57.9	76.5	95.9	113.4	132.0
-70°	18.0	19.6	21.9	24.1	26.3	30.4	38.7	46.9	54.6	64.1	78.8
-72.5°	16.3	17.5	19.0	20.6	22.5	24.4	26.4	28.4	33.3	39.7	45.5
-75°	14.6	15.4	16.5	17.7	19.1	20.4	21.8	23.4	25.1	26.9	28.8
-77.5°	13.0	13.6	14.3	15.0	15.8	17.0	18.2	19.3	20.3	21.3	22.3
-80°	11.5	11.9	12.4	12.9	13.5	14.2	14.9	15.6	16.4	17.2	18.1
-82.5°	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.4	12.9	13.4	13.9
-85°	8.9	9.1	9.3	9.5	9.7	9.9	10.1	10.3	10.4	10.6	10.7
-87.5°	7.6	7.7	7.9	7.9	8.1	8.3	8.4	8.6	8.7	8.8	8.9
-90°	1.6	1.4	1.1	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9



REPORT NUMBER: P731306 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-CV1

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	8.2	8.4	8.7	8.9	9.1	9.4	9.6	9.9	10.1	10.1	10.1
87.5°	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.7	0.4
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
82.5°	1.3	1.3	1.2	1.1	0.9	0.9	0.9	0.9	0.9	0.9	0.9
80°	2.0	1.9	1.8	1.6	1.5	1.4	1.3	1.1	0.9	0.9	0.9
77.5°	2.7	2.5	2.3	2.1	1.8	1.7	1.7	1.6	1.6	1.7	1.7
75°	2.8	2.7	2.9	2.9	2.7	2.6	2.5	2.2	1.9	1.8	1.8
72.5°	5.4	5.6	5.6	5.4	5.0	4.6	4.5	4.3	4.0	4.0	3.9
70°	10.4	10.5	10.0	9.1	7.8	6.8	6.4	6.0	5.5	5.4	5.7
67.5°	15.8	14.5	13.2	11.7	9.8	8.5	8.1	7.6	7.0	6.8	6.8
65°	19.5	15.3	13.1	11.6	10.7	9.6	8.6	7.5	6.6	5.9	5.7
62.5°	19.3	13.4	10.8	9.6	8.7	8.0	7.0	6.1	5.4	4.9	4.8
60°	16.7	11.2	8.3	7.5	6.9	6.4	5.9	5.3	4.9	4.6	4.6
57.5°	13.1	8.7	6.4	6.3	6.0	5.7	5.4	5.1	4.8	4.6	4.8
55°	9.5	7.6	6.5	6.3	6.1	5.8	5.4	5.4	5.3	5.2	5.5
52.5°	8.2	7.5	7.2	7.0	6.6	6.4	6.3	6.3	6.4	6.6	6.7
50°	8.1	7.8	7.6	7.2	7.2	7.2	7.2	7.5	7.8	7.8	7.9
47.5°	8.4	8.3	8.6	8.1	8.3	8.9	9.0	9.2	9.9	10.0	10.0
45°	9.9	11.2	11.6	11.5	11.3	14.7	15.3	14.1	19.3	18.6	14.5
42.5°	15.3	16.9	18.0	21.3	26.2	29.4	37.9	52.1	46.6	35.1	22.7
40°	26.3	25.8	30.8	36.9	40.5	47.1	57.6	71.1	65.6	55.7	59.5
37.5°	46.3	46.9	48.5	56.5	59.4	52.1	67.4	66.3	56.2	71.9	73.8
35°	84.9	93.9	79.8	97.2	101.3	95.0	100.6	111.3	96.3	116.5	122.9
32.5°	152.8	168.4	169.0	173.1	187.4	201.3	205.3	234.1	243.4	267.8	293.9
30°	244.1	272.8	297.3	303.9	323.2	357.5	385.7	441.3	500.9	545.6	604.3
27.5°	439.9	413.9	468.4	534.7	513.6	563.4	665.6	745.8	864.4	949.7	995.9
25°	711.6	669.2	768.5	869.7	869.9	878.4	1026.1	1154.8	1251.9	1328.9	1396.5
22.5°	1032.1	1084.8	1173.9	1291.3	1230.1	1286.0	1432.5	1537.1	1673.1	1806.4	2205.8
20°	1391.4	1498.1	1571.3	1553.8	1551.1	1646.0	1775.0	1976.8	2388.2	3838.4	5223.3
17.5°	1708.0	1837.6	1831.1	1757.4	1792.4	1951.6	2185.7	2969.1	5047.4	9757.5	14165.5
15°	1953.5	2011.2	1973.2	1929.1	2007.3	2245.8	2831.3	5364.5	11671.2	19213.9	27823.4
12.5°	2117.5	2094.8	1995.1	2002.4	2188.1	2523.2	4512.9	10441.9	19561.1	30272.8	51918.6
10°	2180.9	2118.8	2031.6	2112.3	2365.7	3172.3	6069.9	14498.2	28285.3	50555.4	79731.0
7.5°	2137.7	2084.8	2060.3	2202.8	2540.1	4201.3	9435.3	20506.5	40544.5	69263.4	110320.9
5°	2109.8	2074.4	2079.8	2262.2	2650.4	4957.9	11813.8	24286.2	50291.6	87355.1	139589.1
2.5°	2108.2	2087.1	2096.4	2303.5	2712.5	5345.2	13153.7	24915.7	53715.4	97195.9	163537.4
0°	2130.7	2117.0	2108.8	2311.7	2682.8	4966.2	12619.8	25927.0	56064.3	101635.8	173941.5
-2.5°	2236.0	2123.8	2119.1	2311.2	2715.6	5248.1	12932.3	25577.8	55216.5	97532.3	162780.6
-5°	2210.8	2083.9	2063.7	2225.0	2602.5	4725.9	11321.8	23621.8	48502.0	82932.2	134169.4
-7.5°	2110.9	2026.1	1990.1	2118.5	2446.9	3966.7	8780.2	18649.6	36522.8	62511.3	96683.1
-10°	2029.6	1973.7	1920.5	2009.4	2258.9	3031.4	5597.2	12511.5	24843.1	42508.9	62078.5
-12.5°	1987.0	1960.5	1864.6	1889.4	2063.7	2406.4	3916.5	8456.9	15558.1	23082.9	37707.5
-15°	1956.7	1936.7	1846.9	1840.9	1938.3	2140.8	2580.1	4386.6	8700.2	14117.4	19922.3
-17.5°	1929.4	1922.1	1874.5	1822.8	1835.0	1952.4	2194.2	2835.7	4449.3	7892.6	11644.7
-20°	1942.6	1946.8	1910.5	1856.5	1837.3	1852.5	1978.1	2199.2	2607.9	3999.9	5699.8



REPORT NUMBER: P731306 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-CV1

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	1938.4	1950.8	1941.1	1944.9	1921.8	1886.5	1861.6	1958.0	2112.7	2360.2	2989.0
-25°	1938.1	1955.1	2027.6	2120.6	2111.0	2026.7	1938.4	1861.9	1950.4	2057.3	2213.3
-27.5°	1909.4	2020.3	2201.0	2338.1	2377.4	2285.0	2161.4	2032.9	2018.8	2015.4	2075.4
-30°	1900.0	2138.4	2351.5	2546.9	2574.4	2527.8	2470.6	2379.0	2280.7	2226.3	2197.3
-32.5°	1613.2	2190.4	2451.1	2626.8	2670.3	2668.3	2681.1	2637.7	2607.0	2571.8	2522.1
-35°	1224.7	1830.5	2468.7	2549.7	2620.5	2683.6	2768.1	2789.7	2806.7	2826.2	2843.5
-37.5°	855.2	1327.4	1857.7	2320.3	2467.4	2577.2	2726.8	2836.6	2927.9	2973.2	3027.5
-40°	708.5	838.9	1249.8	1640.8	2026.1	2381.5	2542.6	2729.7	2904.6	3001.8	3090.7
-42.5°	693.9	740.4	789.7	1062.5	1388.6	1723.9	2053.4	2352.2	2670.4	2882.6	3038.8
-45°	698.6	722.1	750.9	798.8	849.9	1105.8	1381.9	1663.7	2011.5	2351.4	2647.9
-47.5°	698.0	719.5	742.3	765.5	795.9	843.7	892.7	972.4	1219.1	1479.9	1732.2
-50°	673.8	717.4	738.7	760.3	782.5	806.1	830.9	865.9	907.6	946.7	978.3
-52.5°	612.8	664.1	713.4	754.7	775.0	795.7	817.7	846.9	874.3	900.0	913.3
-55°	543.8	594.9	644.8	689.1	731.0	771.3	808.7	835.4	862.8	890.6	902.0
-57.5°	464.5	516.0	565.5	606.9	648.6	690.4	729.2	766.4	803.5	838.7	858.3
-60°	380.0	423.0	467.4	509.8	550.4	589.0	625.1	660.4	694.1	723.6	742.2
-62.5°	297.1	331.0	368.4	405.2	440.8	475.3	508.6	540.3	570.3	595.5	613.0
-65°	227.5	252.7	278.5	305.0	332.1	361.8	389.7	416.2	440.9	461.4	476.7
-67.5°	154.5	176.3	197.2	216.9	236.8	257.7	278.9	298.9	317.4	332.5	344.4
-70°	92.8	106.5	119.7	133.9	149.9	165.1	180.1	194.3	207.5	217.8	225.6
-72.5°	50.6	55.5	62.1	72.9	83.0	92.3	100.8	108.5	115.4	121.1	125.8
-75°	30.8	33.3	37.3	41.2	44.8	48.4	51.8	54.9	57.7	60.1	62.1
-77.5°	23.6	25.0	26.2	27.4	28.5	29.7	30.9	32.0	33.1	34.0	34.9
-80°	18.9	19.6	20.3	21.0	21.7	22.4	23.2	24.0	24.7	25.2	25.6
-82.5°	14.4	15.1	15.8	16.4	17.0	17.4	17.8	18.2	18.6	19.0	19.4
-85°	10.9	11.4	11.9	12.5	13.0	13.2	13.3	13.4	13.5	13.8	14.1
-87.5°	8.9	9.2	9.5	9.7	10.0	10.2	10.5	10.7	11.0	11.2	11.4
-90°	0.9	0.7	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731306 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-CV1

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	9.9
87.5°	0.2	0.0	0.4	0.9	0.4	0.0	0.2	0.4	0.7	0.9	0.9
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.6	1.6
75°	1.8	1.8	2.2	2.7	2.2	1.8	1.8	1.8	1.8	1.9	2.2
72.5°	3.8	3.7	3.7	3.7	3.7	3.7	3.8	3.9	4.0	4.0	4.3
70°	6.0	6.3	6.4	6.4	6.4	6.3	6.0	5.7	5.4	5.5	6.0
67.5°	6.6	6.4	5.6	4.6	5.6	6.4	6.6	6.8	6.8	7.0	7.6
65°	5.6	5.5	5.1	4.6	5.1	5.5	5.6	5.7	5.9	6.6	7.5
62.5°	4.7	4.6	4.6	4.6	4.6	4.6	4.7	4.8	4.9	5.4	6.1
60°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.9	5.3
57.5°	5.1	5.4	5.5	5.5	5.5	5.4	5.1	4.8	4.6	4.8	5.1
55°	5.9	6.2	6.4	6.4	6.4	6.2	5.9	5.5	5.2	5.3	5.4
52.5°	6.7	6.5	6.7	7.3	6.7	6.5	6.7	6.7	6.6	6.4	6.3
50°	8.0	8.1	8.2	8.2	8.2	8.1	8.0	7.9	7.8	7.8	7.5
47.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.0	10.0	9.9	9.2
45°	15.0	15.2	15.7	16.5	15.7	15.2	15.0	14.5	18.6	19.3	14.1
42.5°	23.7	24.2	24.5	24.7	24.5	24.2	23.7	22.7	35.1	46.6	52.1
40°	56.4	44.9	33.6	33.8	33.6	44.9	56.4	59.5	55.7	65.6	71.1
37.5°	64.8	59.0	56.6	55.8	56.6	59.0	64.8	73.8	71.9	56.2	66.3
35°	122.8	124.9	122.1	123.4	122.1	124.9	122.8	122.9	116.5	96.3	111.3
32.5°	302.3	314.6	310.2	311.7	310.2	314.6	302.3	293.9	267.8	243.4	234.1
30°	628.0	665.7	674.3	671.9	674.3	665.7	628.0	604.3	545.6	500.9	441.3
27.5°	1014.5	1044.4	1050.5	1044.8	1050.5	1044.4	1014.5	995.9	949.7	864.4	745.8
25°	1433.8	1462.3	1478.5	1470.8	1478.5	1462.3	1433.8	1396.5	1328.9	1251.9	1154.8
22.5°	2668.2	2797.8	2860.9	2947.0	2860.9	2797.8	2668.2	2205.8	1806.4	1673.1	1537.1
20°	7869.2	8763.7	8594.2	8409.6	8594.2	8763.7	7869.2	5223.3	3838.4	2388.2	1976.8
17.5°	19642.6	24040.8	26135.1	25282.6	26135.1	24040.8	19642.6	14165.5	9757.5	5047.4	2969.1
15°	40174.7	52463.5	59648.7	57730.7	59648.7	52463.5	40174.7	27823.4	19213.9	11671.2	5364.5
12.5°	72776.8	92307.4	107269.7	109411.5	107269.7	92307.4	72776.8	51918.6	30272.8	19561.1	10441.9
10°	114453.0	150543.8	180286.3	189997.4	180286.3	150543.8	114453.0	79731.0	50555.4	28285.3	14498.2
7.5°	164128.9	212307.7	246609.3	256143.5	246609.3	212307.7	164128.9	110320.9	69263.4	40544.5	20506.5
5°	203969.8	259417.0	297402.0	309069.3	297402.0	259417.0	203969.8	139589.1	87355.1	50291.6	24286.2
2.5°	233811.7	291970.7	334328.1	353682.4	334328.1	291970.7	233811.7	163537.4	97195.9	53715.4	24915.7
0°	245371.9	303979.7	351477.2	378982.8	351477.2	303979.7	245371.9	173941.5	101635.8	56064.3	25927.0
-2.5°	234063.4	288552.1	325128.3	343164.9	325128.3	288552.1	234063.4	162780.6	97532.3	55216.5	25577.8
-5°	194865.3	243080.7	274622.7	287356.2	274622.7	243080.7	194865.3	134169.4	82932.2	48502.0	23621.8
-7.5°	139625.8	179204.8	202715.8	213444.9	202715.8	179204.8	139625.8	96683.1	62511.3	36522.8	18649.6
-10°	90713.5	112621.0	136326.6	141400.2	136326.6	112621.0	90713.5	62078.5	42508.9	24843.1	12511.5
-12.5°	51105.7	64929.7	76711.4	80963.4	76711.4	64929.7	51105.7	37707.5	23082.9	15558.1	8456.9
-15°	27649.9	35526.2	39770.1	40813.7	39770.1	35526.2	27649.9	19922.3	14117.4	8700.2	4386.6
-17.5°	15874.7	19658.3	21823.3	22817.3	21823.3	19658.3	15874.7	11644.7	7892.6	4449.3	2835.7
-20°	8483.0	10617.9	11836.9	12734.1	11836.9	10617.9	8483.0	5699.8	3999.9	2607.9	2199.2



REPORT NUMBER: P731306 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-CV1

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	3896.4	4554.4	4926.2	5346.5	4926.2	4554.4	3896.4	2989.0	2360.2	2112.7	1958.0
-25°	2348.8	2437.4	2490.7	2533.8	2490.7	2437.4	2348.8	2213.3	2057.3	1950.4	1861.9
-27.5°	2127.0	2155.9	2172.7	2190.1	2172.7	2155.9	2127.0	2075.4	2015.4	2018.8	2032.9
-30°	2172.3	2142.9	2132.7	2121.6	2132.7	2142.9	2172.3	2197.3	2226.3	2280.7	2379.0
-32.5°	2472.1	2415.0	2384.4	2355.6	2384.4	2415.0	2472.1	2522.1	2571.8	2607.0	2637.7
-35°	2836.8	2811.2	2797.6	2780.6	2797.6	2811.2	2836.8	2843.5	2826.2	2806.7	2789.7
-37.5°	3036.7	3032.2	3031.5	3022.9	3031.5	3032.2	3036.7	3027.5	2973.2	2927.9	2836.6
-40°	3101.0	3099.2	3094.8	3090.5	3094.8	3099.2	3101.0	3090.7	3001.8	2904.6	2729.7
-42.5°	3080.3	3107.9	3121.1	3121.6	3121.1	3107.9	3080.3	3038.8	2882.6	2670.4	2352.2
-45°	2836.9	2977.5	3059.3	3081.4	3059.3	2977.5	2836.9	2647.9	2351.4	2011.5	1663.7
-47.5°	1956.9	2155.1	2307.9	2404.0	2307.9	2155.1	1956.9	1732.2	1479.9	1219.1	972.4
-50°	1005.9	1031.7	1057.7	1083.2	1057.7	1031.7	1005.9	978.3	946.7	907.6	865.9
-52.5°	924.0	934.8	941.5	945.2	941.5	934.8	924.0	913.3	900.0	874.3	846.9
-55°	912.3	922.3	927.2	928.7	927.2	922.3	912.3	902.0	890.6	862.8	835.4
-57.5°	875.2	889.1	897.5	901.3	897.5	889.1	875.2	858.3	838.7	803.5	766.4
-60°	757.8	770.2	778.5	783.4	778.5	770.2	757.8	742.2	723.6	694.1	660.4
-62.5°	627.6	639.1	645.5	648.1	645.5	639.1	627.6	613.0	595.5	570.3	540.3
-65°	489.4	499.3	509.4	517.4	509.4	499.3	489.4	476.7	461.4	440.9	416.2
-67.5°	354.5	362.5	371.3	378.4	371.3	362.5	354.5	344.4	332.5	317.4	298.9
-70°	231.7	236.1	243.3	249.5	243.3	236.1	231.7	225.6	217.8	207.5	194.3
-72.5°	129.6	132.5	137.8	142.6	137.8	132.5	129.6	125.8	121.1	115.4	108.5
-75°	63.8	65.1	65.6	65.8	65.6	65.1	63.8	62.1	60.1	57.7	54.9
-77.5°	35.7	36.4	36.6	36.6	36.6	36.4	35.7	34.9	34.0	33.1	32.0
-80°	26.0	26.4	26.9	27.4	26.9	26.4	26.0	25.6	25.2	24.7	24.0
-82.5°	19.7	20.0	20.1	20.1	20.1	20.0	19.7	19.4	19.0	18.6	18.2
-85°	14.3	14.6	14.6	14.6	14.6	14.6	14.3	14.1	13.8	13.5	13.4
-87.5°	11.7	11.9	11.9	11.9	11.9	11.9	11.7	11.4	11.2	11.0	10.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731306 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-CV1

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	9.6	9.4	9.1	8.9	8.7	8.4	8.2	8.0	7.8	7.5	7.3
87.5°	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.1	1.2	1.3
82.5°	0.9	0.9	0.9	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.8
80°	1.3	1.4	1.5	1.6	1.8	1.9	2.0	2.0	1.9	1.8	1.8
77.5°	1.7	1.7	1.8	2.1	2.3	2.5	2.7	2.7	2.5	2.4	2.3
75°	2.5	2.6	2.7	2.9	2.9	2.7	2.8	3.0	3.0	3.0	2.9
72.5°	4.5	4.6	5.0	5.4	5.6	5.6	5.4	5.0	4.5	4.0	3.6
70°	6.4	6.8	7.8	9.1	10.0	10.5	10.4	9.5	7.8	6.7	5.7
67.5°	8.1	8.5	9.8	11.7	13.2	14.5	15.8	16.6	16.1	14.3	10.1
65°	8.6	9.6	10.7	11.6	13.1	15.3	19.5	21.7	22.5	22.0	17.3
62.5°	7.0	8.0	8.7	9.6	10.8	13.4	19.3	23.8	27.1	26.9	21.6
60°	5.9	6.4	6.9	7.5	8.3	11.2	16.7	23.0	30.2	28.1	23.7
57.5°	5.4	5.7	6.0	6.3	6.4	8.7	13.1	19.0	25.8	25.4	23.1
55°	5.4	5.8	6.1	6.3	6.5	7.6	9.5	13.2	18.5	19.9	19.0
52.5°	6.3	6.4	6.6	7.0	7.2	7.5	8.2	10.3	11.9	13.8	14.9
50°	7.2	7.2	7.2	7.2	7.6	7.8	8.1	8.9	9.9	10.5	10.9
47.5°	9.0	8.9	8.3	8.1	8.6	8.3	8.4	8.5	9.4	9.8	9.8
45°	15.3	14.7	11.3	11.5	11.6	11.2	9.9	10.7	10.1	10.1	10.1
42.5°	37.9	29.4	26.2	21.3	18.0	16.9	15.3	15.3	14.4	12.0	12.1
40°	57.6	47.1	40.5	36.9	30.8	25.8	26.3	21.8	20.5	17.8	17.1
37.5°	67.4	52.1	59.4	56.5	48.5	46.9	46.3	37.9	27.6	32.7	31.5
35°	100.6	95.0	101.3	97.2	79.8	93.9	84.9	65.8	54.2	57.3	52.5
32.5°	205.3	201.3	187.4	173.1	169.0	168.4	152.8	116.9	107.7	100.0	84.8
30°	385.7	357.5	323.2	303.9	297.3	272.8	244.1	249.7	205.0	155.6	127.7
27.5°	665.6	563.4	513.6	534.7	468.4	413.9	439.9	464.3	346.4	252.8	189.0
25°	1026.1	878.4	869.9	869.7	768.5	669.2	711.6	714.4	598.0	383.1	272.5
22.5°	1432.5	1286.0	1230.1	1291.3	1173.9	1084.8	1032.1	994.0	906.6	622.7	422.8
20°	1775.0	1646.0	1551.1	1553.8	1571.3	1498.1	1391.4	1289.8	1171.0	934.5	614.1
17.5°	2185.7	1951.6	1792.4	1757.4	1831.1	1837.6	1708.0	1550.1	1426.5	1256.6	833.2
15°	2831.3	2245.8	2007.3	1929.1	1973.2	2011.2	1953.5	1790.6	1669.6	1529.1	1087.9
12.5°	4512.9	2523.2	2188.1	2002.4	1995.1	2094.8	2117.5	2014.7	1858.8	1660.2	1267.0
10°	6069.9	3172.3	2365.7	2112.3	2031.6	2118.8	2180.9	2062.9	1890.9	1726.4	1420.4
7.5°	9435.3	4201.3	2540.1	2202.8	2060.3	2084.8	2137.7	2028.4	1900.9	1772.0	1548.1
5°	11813.8	4957.9	2650.4	2262.2	2079.8	2074.4	2109.8	1968.1	1893.3	1800.9	1649.7
2.5°	13153.7	5345.2	2712.5	2303.5	2096.4	2087.1	2108.2	1930.4	1878.9	1792.1	1665.7
0°	12619.8	4966.2	2682.8	2311.7	2108.8	2117.0	2130.7	1922.3	1862.0	1772.4	1657.2
-2.5°	12932.3	5248.1	2715.6	2311.2	2119.1	2123.8	2236.0	2012.4	1912.3	1792.0	1640.8
-5°	11321.8	4725.9	2602.5	2225.0	2063.7	2083.9	2210.8	2039.0	1916.2	1789.5	1598.7
-7.5°	8780.2	3966.7	2446.9	2118.5	1990.1	2026.1	2110.9	1984.7	1832.8	1714.3	1498.2
-10°	5597.2	3031.4	2258.9	2009.4	1920.5	1973.7	2029.6	1904.6	1744.9	1636.5	1382.1
-12.5°	3916.5	2406.4	2063.7	1889.4	1864.6	1960.5	1987.0	1816.1	1653.5	1558.1	1254.9
-15°	2580.1	2140.8	1938.3	1840.9	1846.9	1936.7	1956.7	1803.9	1670.2	1515.2	1120.4
-17.5°	2194.2	1952.4	1835.0	1822.8	1874.5	1922.1	1929.4	1838.2	1706.3	1488.2	1000.4
-20°	1978.1	1852.5	1837.3	1856.5	1910.5	1946.8	1942.6	1883.7	1722.6	1350.9	866.6



REPORT NUMBER: P731306 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-CV1

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	1861.6	1886.5	1921.8	1944.9	1941.1	1950.8	1938.4	1885.1	1720.5	1160.2	714.9
-25°	1938.4	2026.7	2111.0	2120.6	2027.6	1955.1	1938.1	1835.1	1475.7	955.2	570.6
-27.5°	2161.4	2285.0	2377.4	2338.1	2201.0	2020.3	1909.4	1732.7	1182.5	759.1	557.6
-30°	2470.6	2527.8	2574.4	2546.9	2351.5	2138.4	1900.0	1387.8	929.9	598.9	543.4
-32.5°	2681.1	2668.3	2670.3	2626.8	2451.1	2190.4	1613.2	1051.2	679.3	581.3	540.4
-35°	2768.1	2683.6	2620.5	2549.7	2468.7	1830.5	1224.7	782.7	614.0	566.6	539.8
-37.5°	2726.8	2577.2	2467.4	2320.3	1857.7	1327.4	855.2	662.1	597.9	564.0	537.0
-40°	2542.6	2381.5	2026.1	1640.8	1249.8	838.9	708.5	646.5	604.2	560.2	533.0
-42.5°	2053.4	1723.9	1388.6	1062.5	789.7	740.4	693.9	652.8	610.5	566.3	509.9
-45°	1381.9	1105.8	849.9	798.8	750.9	722.1	698.6	659.8	617.4	550.1	482.1
-47.5°	892.7	843.7	795.9	765.5	742.3	719.5	698.0	665.3	589.6	519.3	451.9
-50°	830.9	806.1	782.5	760.3	738.7	717.4	673.8	618.2	546.8	478.8	415.3
-52.5°	817.7	795.7	775.0	754.7	713.4	664.1	612.8	557.2	494.8	430.8	371.4
-55°	808.7	771.3	731.0	689.1	644.8	594.9	543.8	490.1	433.8	375.9	321.1
-57.5°	729.2	690.4	648.6	606.9	565.5	516.0	464.5	414.6	367.6	316.5	268.0
-60°	625.1	589.0	550.4	509.8	467.4	423.0	380.0	338.1	297.6	260.3	222.8
-62.5°	508.6	475.3	440.8	405.2	368.4	331.0	297.1	267.5	238.1	207.1	172.3
-65°	389.7	361.8	332.1	305.0	278.5	252.7	227.5	201.6	175.0	147.7	118.5
-67.5°	278.9	257.7	236.8	216.9	197.2	176.3	154.5	132.0	113.4	95.9	76.5
-70°	180.1	165.1	149.9	133.9	119.7	106.5	92.8	78.8	64.1	54.6	46.9
-72.5°	100.8	92.3	83.0	72.9	62.1	55.5	50.6	45.5	39.7	33.3	28.4
-75°	51.8	48.4	44.8	41.2	37.3	33.3	30.8	28.8	26.9	25.1	23.4
-77.5°	30.9	29.7	28.5	27.4	26.2	25.0	23.6	22.3	21.3	20.3	19.3
-80°	23.2	22.4	21.7	21.0	20.3	19.6	18.9	18.1	17.2	16.4	15.6
-82.5°	17.8	17.4	17.0	16.4	15.8	15.1	14.4	13.9	13.4	12.9	12.4
-85°	13.3	13.2	13.0	12.5	11.9	11.4	10.9	10.7	10.6	10.4	10.3
-87.5°	10.5	10.2	10.0	9.7	9.5	9.2	8.9	8.9	8.8	8.7	8.6
-90°	0.0	0.0	0.0	0.2	0.5	0.7	0.9	0.9	0.9	0.9	0.9



REPORT NUMBER: P731306 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-CV1

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	7.1	6.9	6.6	6.4	6.4	6.4	6.4	6.4	6.0	5.5	5.1
87.5°	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.0
85°	1.4	1.5	1.6	1.8	1.8	1.8	1.8	1.8	2.0	2.1	2.2
82.5°	1.8	1.8	1.8	1.8	1.9	2.0	2.1	2.1	2.2	2.3	2.4
80°	2.0	2.1	2.1	2.1	2.2	2.3	2.4	2.4	2.5	2.6	2.7
77.5°	2.3	2.4	2.5	2.6	2.5	2.5	2.6	2.8	2.9	3.0	3.0
75°	2.7	2.6	2.6	2.7	2.8	2.7	2.7	2.8	3.0	3.3	3.3
72.5°	3.4	3.2	2.9	2.8	3.0	3.0	2.9	2.8	3.0	3.3	3.5
70°	4.7	3.9	3.5	3.3	3.2	3.3	3.3	3.2	3.1	3.3	3.5
67.5°	6.4	5.3	4.4	3.8	3.6	3.5	3.6	3.6	3.5	3.3	3.6
65°	12.3	8.3	5.4	4.7	4.0	3.7	3.7	3.9	3.8	3.7	3.6
62.5°	16.9	12.6	8.7	6.0	4.7	4.1	3.7	4.0	4.2	4.0	3.8
60°	20.0	15.2	11.7	8.5	5.9	4.5	4.1	4.2	4.4	4.3	4.1
57.5°	19.1	16.6	14.0	10.8	7.7	5.4	4.6	4.6	4.6	4.6	4.4
55°	16.8	14.7	15.3	13.0	9.4	6.5	5.3	5.0	4.9	4.9	4.6
52.5°	13.8	13.8	15.1	14.6	11.5	7.8	6.4	5.4	5.3	5.1	4.9
50°	11.1	13.2	15.0	15.4	13.5	10.1	7.4	6.2	5.7	5.5	5.2
47.5°	10.1	12.5	14.4	16.3	15.2	12.3	9.1	7.1	6.0	5.8	5.5
45°	11.2	12.2	14.1	15.8	17.0	13.9	10.9	7.8	6.7	6.1	5.8
42.5°	13.5	13.7	14.2	15.4	16.8	15.3	12.6	9.2	7.3	6.5	6.1
40°	17.0	16.6	15.3	16.5	16.8	16.5	13.8	10.7	7.9	6.9	6.4
37.5°	21.5	20.5	18.5	19.7	18.0	16.9	14.7	12.0	8.8	7.5	6.7
35°	38.9	25.8	28.9	27.3	22.4	17.8	15.5	13.1	10.1	8.1	7.0
32.5°	61.1	48.4	51.1	40.2	28.3	19.0	16.3	14.2	11.3	8.7	7.3
30°	102.5	101.5	84.7	56.6	37.6	24.5	18.0	15.5	12.5	9.3	7.6
27.5°	172.7	166.1	131.0	87.7	53.3	31.8	20.8	17.0	13.6	10.0	8.1
25°	244.8	233.3	193.7	129.9	71.4	49.4	24.1	18.8	14.8	11.0	8.6
22.5°	322.3	298.2	264.0	179.1	102.0	72.9	33.0	21.4	16.1	11.8	9.0
20°	398.5	362.3	335.0	221.4	139.9	100.2	50.0	24.2	17.5	12.7	9.5
17.5°	490.2	413.7	363.1	263.1	177.9	127.7	69.9	27.2	18.9	13.4	10.0
15°	633.8	447.8	388.0	299.9	210.8	155.2	92.2	30.3	20.4	14.1	10.4
12.5°	764.5	479.5	412.5	331.8	239.1	182.5	116.1	33.5	21.8	14.8	10.7
10°	886.9	508.6	436.3	359.1	263.4	209.3	140.7	36.6	23.2	15.4	11.0
7.5°	997.8	535.2	459.0	382.1	282.0	226.4	156.0	39.7	24.4	16.0	11.3
5°	1081.3	554.7	476.1	392.4	286.8	232.3	167.4	42.6	25.6	16.5	11.5
2.5°	1089.2	564.5	488.8	398.1	290.0	236.3	176.1	45.2	26.6	17.0	11.7
0°	1073.1	571.3	499.1	400.4	291.6	238.6	181.9	47.5	27.4	17.4	11.9
-2.5°	1057.8	571.6	500.0	407.4	304.8	245.5	188.3	61.1	36.2	22.3	14.2
-5°	1023.3	569.3	498.3	411.8	315.9	251.1	192.2	74.0	44.6	27.0	16.3
-7.5°	964.8	558.4	491.2	413.0	324.7	255.4	194.0	86.0	52.4	31.4	18.4
-10°	886.9	541.3	477.3	406.5	328.7	260.9	194.7	96.8	59.5	35.3	20.2
-12.5°	791.6	522.3	463.2	400.2	331.3	267.5	196.5	105.8	65.7	38.7	21.7
-15°	679.7	501.8	449.5	394.6	333.1	272.7	196.5	113.2	71.2	41.9	23.0
-17.5°	556.0	479.8	436.9	390.7	334.5	276.8	194.8	119.0	75.8	45.1	24.4
-20°	530.2	469.6	426.3	389.2	335.7	279.6	191.7	122.9	79.2	47.4	25.8



REPORT NUMBER: P731306 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-CV1

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	521.6	470.7	429.7	387.9	336.7	281.2	187.2	124.9	81.4	48.8	26.5
-25°	511.6	472.8	434.9	387.7	336.6	273.3	185.1	124.8	82.3	49.3	26.7
-27.5°	509.8	476.2	439.5	383.9	330.8	264.2	184.3	125.4	82.2	48.7	26.2
-30°	513.1	480.1	434.9	376.3	322.4	249.3	180.7	124.4	81.4	47.8	25.0
-32.5°	514.3	483.7	423.7	365.1	306.5	233.7	172.4	121.5	79.2	46.4	24.3
-35°	512.4	471.2	408.2	350.9	287.6	221.3	162.7	116.9	75.5	43.9	23.6
-37.5°	508.0	448.9	389.7	332.2	268.4	207.1	153.9	109.4	70.2	40.3	22.4
-40°	482.6	425.4	368.4	310.9	250.2	191.0	143.4	100.8	64.8	35.7	20.7
-42.5°	456.0	399.9	344.0	288.9	230.7	177.5	131.3	90.5	57.7	32.3	18.5
-45°	426.0	371.6	317.1	263.0	210.0	162.2	118.1	79.1	49.5	29.2	16.8
-47.5°	393.1	339.8	286.4	234.3	190.5	145.0	102.9	68.6	40.4	25.5	16.1
-50°	356.2	303.8	251.9	207.6	167.4	125.8	87.0	57.0	35.3	21.1	15.3
-52.5°	315.3	262.9	219.6	181.0	142.1	104.6	72.4	44.9	29.7	18.9	14.3
-55°	268.6	225.9	189.2	151.3	114.7	84.9	56.5	37.7	23.5	17.6	13.3
-57.5°	228.4	191.7	154.4	118.8	89.7	64.6	44.5	29.8	20.7	16.2	12.6
-60°	186.9	150.5	116.3	90.0	66.2	47.9	34.8	23.5	18.9	14.8	11.9
-62.5°	138.7	108.5	85.2	63.0	47.6	35.9	25.8	21.2	17.0	14.0	11.1
-65°	96.1	74.8	55.6	44.6	33.9	25.9	22.9	18.8	15.8	13.0	10.4
-67.5°	57.9	48.5	38.9	29.3	25.3	22.7	19.8	17.2	14.7	12.1	10.0
-70°	38.7	30.4	26.3	24.1	21.9	19.6	18.0	16.0	13.5	11.4	9.5
-72.5°	26.4	24.4	22.5	20.6	19.0	17.5	16.3	14.7	12.6	10.7	9.0
-75°	21.8	20.4	19.1	17.7	16.5	15.4	14.6	13.4	11.6	9.9	8.3
-77.5°	18.2	17.0	15.8	15.0	14.3	13.6	13.0	12.1	10.5	9.1	7.6
-80°	14.9	14.2	13.5	12.9	12.4	11.9	11.5	10.9	9.5	8.2	6.8
-82.5°	12.0	11.7	11.4	11.1	10.8	10.5	10.2	9.8	8.5	7.3	6.2
-85°	10.1	9.9	9.7	9.5	9.3	9.1	8.9	8.7	7.6	6.7	5.8
-87.5°	8.4	8.3	8.1	7.9	7.9	7.7	7.6	7.5	6.8	6.1	5.5
-90°	0.9	0.9	0.9	0.9	1.1	1.4	1.6	1.8	1.8	1.8	1.8



REPORT NUMBER: P731306 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-CV1

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	4.6	4.1	3.7	3.2	2.7	2.7	2.7
87.5°	2.0	2.2	2.3	2.5	2.7	2.7	2.7
85°	2.3	2.3	2.4	2.5	2.7	2.7	2.7
82.5°	2.5	2.5	2.5	2.6	2.7	2.8	2.7
80°	2.7	2.6	2.6	2.6	2.7	2.8	2.7
77.5°	3.0	2.8	2.6	2.6	2.7	2.8	2.7
75°	3.2	3.0	2.7	2.7	2.7	2.8	2.7
72.5°	3.5	3.2	2.9	2.7	2.7	2.9	2.7
70°	3.7	3.4	3.1	2.7	2.7	2.9	2.7
67.5°	3.7	3.6	3.2	2.8	2.8	2.9	2.7
65°	3.8	3.7	3.4	3.0	2.8	2.9	2.7
62.5°	3.8	3.8	3.5	3.1	2.8	3.0	2.7
60°	3.9	3.9	3.7	3.2	2.8	3.0	2.7
57.5°	4.1	4.0	3.8	3.3	2.9	3.0	2.7
55°	4.3	4.1	3.9	3.4	3.0	3.0	2.7
52.5°	4.5	4.2	4.0	3.5	3.1	3.1	2.7
50°	4.8	4.4	4.1	3.6	3.2	3.1	2.7
47.5°	5.0	4.5	4.2	3.7	3.3	3.1	2.7
45°	5.3	4.7	4.3	3.8	3.4	3.2	2.7
42.5°	5.6	4.9	4.4	3.9	3.5	3.2	2.7
40°	5.9	5.1	4.5	4.0	3.6	3.2	2.7
37.5°	6.2	5.2	4.6	4.1	3.7	3.3	2.7
35°	6.5	5.4	4.8	4.2	3.7	3.3	2.7
32.5°	6.8	5.7	4.9	4.3	3.8	3.3	2.7
30°	7.0	5.9	5.0	4.5	3.9	3.3	2.7
27.5°	7.2	6.2	5.2	4.6	4.0	3.4	2.7
25°	7.4	6.4	5.3	4.7	4.0	3.4	2.7
22.5°	7.6	6.6	5.4	4.8	4.1	3.4	2.7
20°	7.8	6.8	5.6	4.9	4.2	3.5	2.7
17.5°	8.0	6.9	5.7	5.0	4.2	3.5	2.7
15°	8.2	7.0	5.8	5.1	4.3	3.5	2.7
12.5°	8.3	7.1	5.9	5.1	4.4	3.6	2.7
10°	8.5	7.2	6.0	5.2	4.4	3.6	2.7
7.5°	8.7	7.2	6.1	5.3	4.5	3.6	2.7
5°	8.8	7.3	6.2	5.4	4.5	3.7	2.7
2.5°	9.0	7.3	6.3	5.4	4.6	3.7	2.7
0°	9.1	7.3	6.4	5.5	4.6	3.7	2.7
-2.5°	9.9	7.7	6.6	5.6	4.6	3.7	2.7
-5°	10.8	8.1	6.7	5.6	4.7	3.7	2.7
-7.5°	11.5	8.5	6.8	5.7	4.7	3.7	2.7
-10°	12.2	8.8	7.0	5.7	4.7	3.8	2.7
-12.5°	12.8	9.1	7.1	5.7	4.8	3.8	2.7
-15°	13.4	9.4	7.2	5.8	4.8	3.8	2.7
-17.5°	13.8	9.6	7.2	5.8	4.8	3.8	2.7
-20°	14.2	9.7	7.3	5.8	4.8	3.8	2.7



REPORT NUMBER: P731306 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-1S-CV1

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	14.7	9.8	7.3	5.8	4.8	3.8	2.7
-25°	15.0	9.9	7.3	5.8	4.8	3.8	2.7
-27.5°	14.9	10.0	7.3	5.8	4.8	3.8	2.7
-30°	14.6	9.9	7.2	5.8	4.8	3.8	2.7
-32.5°	14.0	9.9	7.2	5.8	4.8	3.7	2.7
-35°	13.7	9.7	7.2	5.8	4.8	3.7	2.7
-37.5°	13.5	9.6	7.2	5.8	4.8	3.7	2.7
-40°	13.2	9.5	7.1	5.7	4.8	3.7	2.7
-42.5°	12.8	9.3	7.0	5.7	4.7	3.7	2.7
-45°	12.3	9.2	7.0	5.7	4.7	3.6	2.7
-47.5°	11.7	8.9	6.9	5.7	4.7	3.6	2.7
-50°	11.3	8.6	6.9	5.6	4.6	3.6	2.7
-52.5°	10.9	8.3	6.8	5.6	4.6	3.5	2.7
-55°	10.4	8.1	6.7	5.5	4.6	3.5	2.7
-57.5°	9.9	8.0	6.6	5.4	4.5	3.4	2.7
-60°	9.3	7.8	6.5	5.3	4.5	3.4	2.7
-62.5°	9.1	7.6	6.3	5.2	4.4	3.3	2.7
-65°	8.7	7.4	6.1	5.1	4.2	3.3	2.7
-67.5°	8.4	7.1	5.9	5.0	4.1	3.2	2.7
-70°	8.0	6.7	5.6	4.8	4.0	3.2	2.7
-72.5°	7.5	6.3	5.3	4.6	3.8	3.1	2.7
-75°	6.9	5.9	5.1	4.4	3.7	3.1	2.7
-77.5°	6.2	5.4	4.8	4.2	3.5	3.0	2.7
-80°	5.6	5.1	4.6	4.0	3.4	3.0	2.7
-82.5°	5.3	4.9	4.4	3.8	3.2	2.9	2.7
-85°	5.1	4.6	4.1	3.6	3.0	2.8	2.7
-87.5°	4.8	4.4	3.9	3.4	2.9	2.8	2.7
-90°	1.8	2.0	2.3	2.5	2.7	2.7	2.7

(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

