

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: P731313 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-70-2S-VHE**

Issue Date: 11/16/2023

Test Information

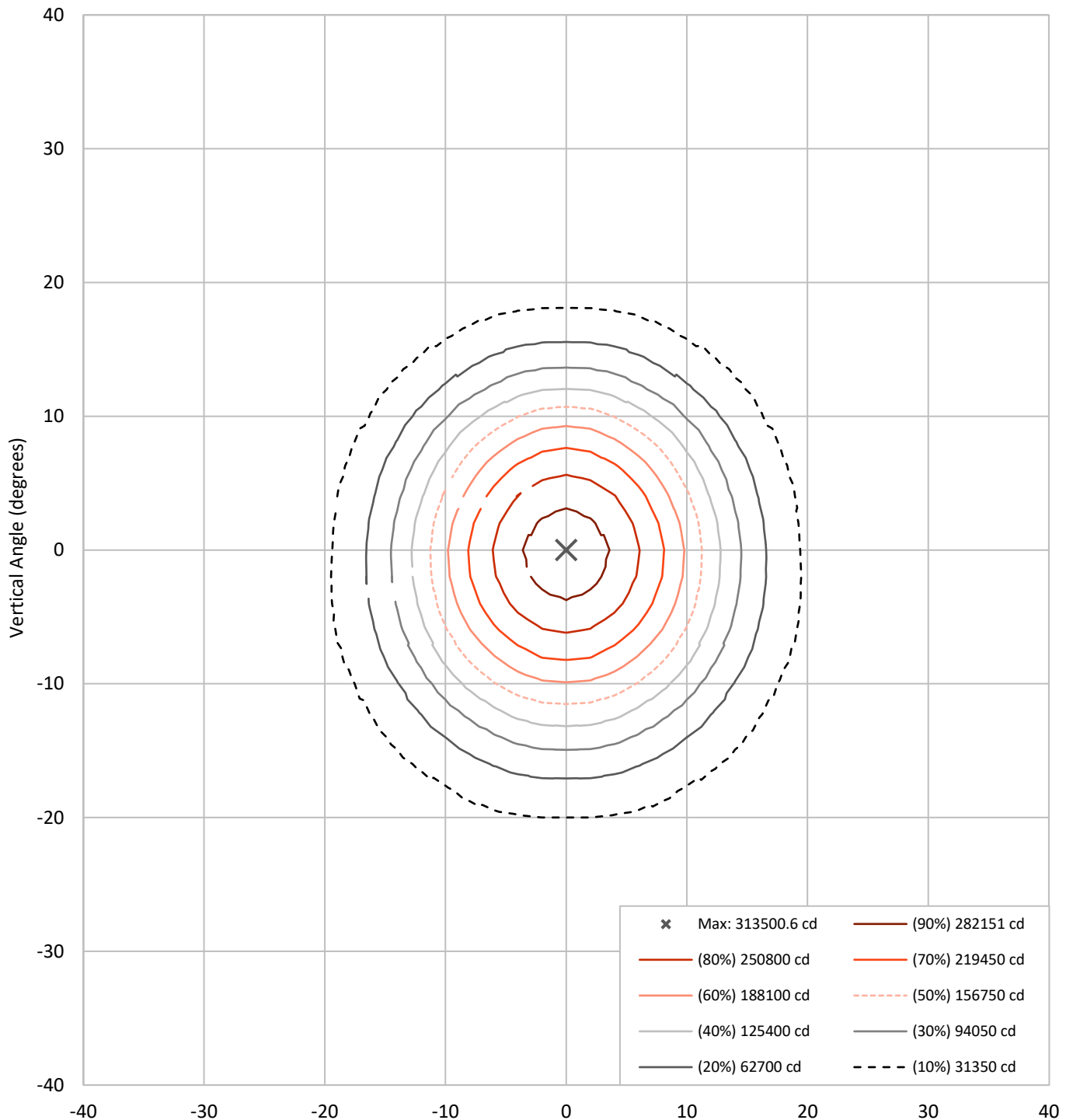
Test Method: LM-79-08
Report Number: P731313 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-40-70-2S-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 2S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	54795.2 lumens	Max Intensity:	313500.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	157.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	22.5°H x 22.2°V	Field Angle (10%):	38.8°H x 38.1°V
Beam Lumens:	25604.9 lumens	Field Lumens:	45614.6 lumens
Beam Efficiency:	46.7%	Field Efficiency:	83.2%
Input Watts (W):	348.5		
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





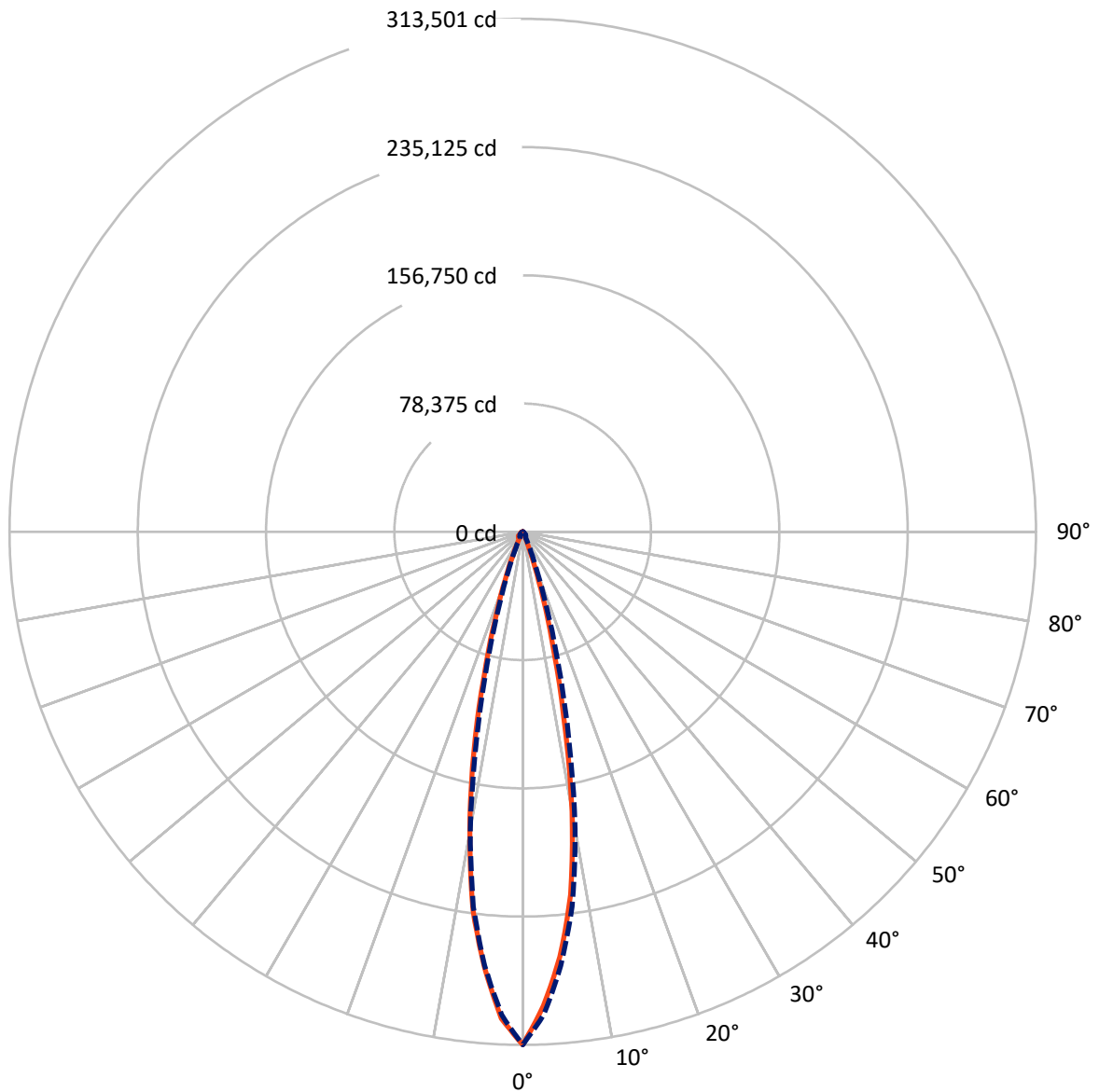
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Lumen Table

90	0.1		0.4		0.8		1.2		1.4		1.2		0.8		0.4		0.1	
80	0.1		0.4		0.8		1.2		1.4		1.2		0.8		0.4		0.1	
70	0.1	0.1	0.1	0.4	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.5	0.4	0.1	0.1	0.1		
60		0.2	0.5	0.6	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.6	0.5	0.2			
50	0.4	0.7	1.6	3.3	5.7	9.4	14.5	17.0	17.0	14.5	9.4	5.7	3.3	1.6	0.7	0.4		
40		1.7	5.4	10.4	20.4	35.5	43.2	47.8	47.8	43.2	35.5	20.4	10.4	5.4	1.7			
30	1.1	2.9	8.9	19.0	46.6	54.2	74.7	136.5	136.5	74.7	54.2	46.6	19.0	8.9	2.9	1.1		
20		3.9	11.6	33.4	65.6	96.5	611.8	1973.4	1973.4	611.8	96.5	65.6	33.4	11.6	3.9			
10	1.6	4.7	13.4	43.6	75.2	215.7	2167.6	6516.0	6516.0	2167.6	215.7	75.2	43.6	13.4	4.7	1.6		
0		5.2	14.8	46.0	82.7	247.3	2360.6	6776.4	6776.4	2360.6	247.3	82.7	46.0	14.8	5.2			
-10	1.7	5.2	15.5	44.4	87.1	141.5	865.1	2534.4	2534.4	865.1	141.5	87.1	44.4	15.5	5.2	1.7		
-20		4.8	15.2	33.9	82.1	112.5	156.4	312.7	312.7	156.4	112.5	82.1	33.9	15.2	4.8			
-30	1.4	4.1	13.3	26.5	57.4	101.1	118.4	124.2	124.2	118.4	101.1	57.4	26.5	13.3	4.1	1.4		
-40		3.1	10.1	21.5	34.2	52.6	80.0	100.5	100.5	80.0	52.6	34.2	21.5	10.1	3.1			
-50	1.1	2.0	6.4	14.1	24.0	32.4	38.7	42.7	42.7	38.7	32.4	24.0	14.1	6.4	2.0	1.1		
-60		1.4	3.2	7.1	12.2	17.2	21.6	24.3	24.3	21.6	17.2	12.2	7.1	3.2	1.4			
-70	0.8	5.0		12.2		20.3		24.8		20.3		12.2		5.0		0.8		
-80		5.0		12.2		20.3		24.8		20.3		12.2		5.0				
-90	0.8		5.0		12.2		20.3		24.8		20.3		12.2		5.0		0.8	

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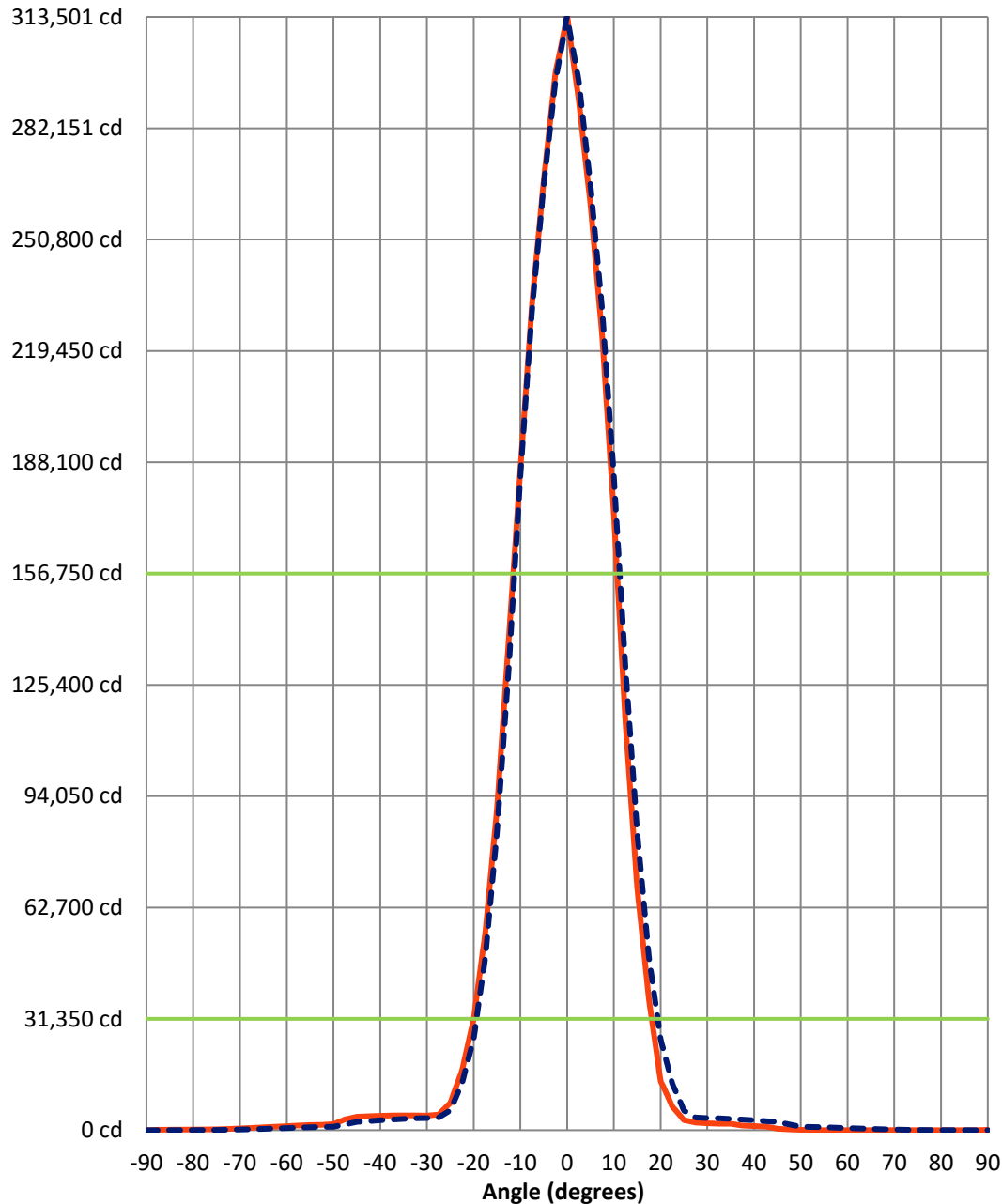
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 22.5°
 V Angle: 22.2°
 Lumens: 25604.9
 Efficiency: 46.7%

Field:
 H Angle: 38.8°
 V Angle: 38.1°
 Lumens: 45614.6
 Efficiency: 83.2%

Spill:
 Lumens: 9180.6
 Efficiency: 16.8%

— 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°	3.2	6.7	10.2	17.6	25.0	31.3	37.7	42.5	47.3	51.2	55.0
87.5°	3.2	3.3	3.3	3.3	3.3	3.3	3.4	3.3	3.2	3.2	3.2
85°	3.2	3.4	3.4	3.4	3.4	3.5	3.5	3.4	3.2	3.2	3.2
82.5°	3.2	3.5	3.5	3.6	3.5	3.6	3.7	3.5	3.2	3.3	3.4
80°	3.2	3.5	3.7	3.7	3.6	3.7	3.8	3.7	3.7	3.7	3.6
77.5°	3.2	3.6	3.8	3.8	3.7	3.9	4.0	4.0	4.1	4.1	3.9
75°	3.2	3.7	3.9	4.0	3.9	4.1	4.2	4.3	4.5	4.4	4.3
72.5°	3.2	3.8	4.0	4.1	4.1	4.3	4.4	4.6	4.8	4.7	4.6
70°	3.2	3.9	4.1	4.2	4.4	4.6	4.6	4.9	5.0	5.0	4.9
67.5°	3.2	4.0	4.3	4.4	4.6	4.8	5.0	5.2	5.3	5.4	5.3
65°	3.2	4.0	4.4	4.6	4.8	5.1	5.4	5.6	6.0	5.9	5.9
62.5°	3.2	4.1	4.5	4.8	5.0	5.5	5.8	6.3	6.7	6.6	6.9
60°	3.2	4.2	4.7	4.9	5.3	5.9	6.2	7.2	7.6	7.9	8.0
57.5°	3.2	4.3	4.8	5.1	5.7	6.3	7.3	8.2	9.1	9.5	10.7
55°	3.2	4.4	5.0	5.3	6.1	6.7	8.5	9.4	11.0	11.9	14.4
52.5°	3.2	4.5	5.2	5.4	6.6	7.2	9.7	11.4	13.0	16.3	18.4
50°	3.2	4.6	5.5	5.6	7.1	8.6	11.1	13.5	15.9	21.2	26.3
47.5°	3.2	4.6	5.7	5.8	7.7	10.0	12.6	15.8	20.9	26.5	35.7
45°	3.2	4.7	5.9	6.3	8.3	11.4	14.6	18.1	26.3	36.0	46.0
42.5°	3.2	4.8	6.2	6.7	8.8	12.9	16.7	22.1	32.1	46.1	62.6
40°	3.2	4.9	6.5	7.3	9.8	14.4	18.9	27.4	39.5	57.0	81.4
37.5°	3.2	4.9	6.8	8.1	11.0	16.0	21.3	32.8	50.1	71.1	101.5
35°	3.2	5.0	7.1	8.9	12.2	17.8	23.8	38.5	61.2	89.9	124.1
32.5°	3.2	5.1	7.4	9.7	13.4	19.8	27.0	44.3	72.8	109.0	148.0
30°	3.2	5.2	7.7	10.5	14.6	21.8	31.7	51.0	84.8	128.3	170.8
27.5°	3.2	5.2	8.0	11.4	16.1	23.7	36.4	59.9	97.2	147.7	192.4
25°	3.2	5.3	8.4	12.2	17.7	25.6	41.0	68.3	110.2	166.2	212.9
22.5°	3.2	5.4	8.7	13.1	19.2	27.6	45.5	76.2	122.1	178.6	235.1
20°	3.2	5.4	9.0	14.0	20.7	29.7	49.9	83.5	133.0	190.2	252.4
17.5°	3.2	5.5	9.4	14.9	22.1	31.7	53.9	90.4	142.8	200.8	268.7
15°	3.2	5.5	9.7	15.7	23.4	33.6	57.5	96.4	151.7	210.5	284.4
12.5°	3.2	5.6	10.0	16.6	24.7	35.4	60.8	101.5	160.0	219.1	299.3
10°	3.2	5.6	10.4	17.4	25.9	37.1	63.8	106.1	167.9	229.8	314.7
7.5°	3.2	5.7	10.7	18.3	27.1	38.7	66.4	110.1	175.0	240.2	332.1
5°	3.2	5.7	11.0	19.0	28.1	40.2	68.7	113.5	181.3	249.7	348.1
2.5°	3.2	5.8	11.2	19.8	29.2	41.6	70.7	116.3	186.5	258.2	362.5
0°	3.2	5.8	11.5	20.5	30.1	42.9	72.3	118.4	190.7	265.5	374.9
-2.5°	3.2	6.0	12.1	21.4	31.4	44.7	74.6	122.7	196.5	273.2	381.4
-5°	3.2	6.3	12.7	22.3	32.6	46.3	76.6	126.3	201.1	279.4	385.8
-7.5°	3.2	6.5	13.2	23.0	33.8	47.8	78.2	129.1	204.5	284.1	388.2
-10°	3.2	6.8	13.8	23.8	34.9	49.2	79.4	131.0	206.5	287.3	388.6
-12.5°	3.2	7.0	14.3	24.5	35.8	50.4	80.2	132.0	207.1	288.6	388.1
-15°	3.2	7.2	14.7	25.1	36.7	51.4	80.6	132.0	205.6	286.3	385.4
-17.5°	3.2	7.4	15.1	25.6	37.5	52.3	80.6	130.7	201.8	282.3	379.7
-20°	3.2	7.6	15.5	26.1	38.1	53.0	80.2	128.2	196.7	276.5	370.8



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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-VHE

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	3.2	7.7	15.9	26.6	38.7	53.6	79.6	124.9	190.3	269.1	359.0
-25°	3.2	7.9	16.2	26.9	39.1	54.0	78.5	120.7	182.7	259.8	347.4
-27.5°	3.2	8.0	16.5	27.2	39.5	54.4	77.0	115.7	173.8	252.2	339.3
-30°	3.2	8.2	16.7	27.5	39.7	54.6	74.9	109.8	166.7	243.7	329.1
-32.5°	3.2	8.3	16.9	27.7	40.0	54.6	72.4	106.1	160.7	233.3	316.7
-35°	3.2	8.4	17.0	27.8	40.2	54.4	71.4	103.0	153.2	221.1	302.0
-37.5°	3.2	8.5	17.1	27.8	40.3	54.2	71.0	99.4	144.3	207.0	286.2
-40°	3.2	8.6	17.1	27.8	40.3	54.2	70.3	94.9	133.9	194.3	268.4
-42.5°	3.2	8.6	17.1	27.8	40.2	54.0	69.5	89.6	126.0	180.6	248.2
-45°	3.2	8.6	17.1	27.7	40.2	53.7	68.4	85.5	118.9	165.2	226.4
-47.5°	3.2	8.7	17.0	27.6	40.0	53.3	67.0	83.9	110.8	148.2	206.9
-50°	3.2	8.7	16.8	27.5	39.8	52.7	66.1	82.0	101.6	137.6	185.3
-52.5°	3.2	8.6	16.6	27.3	39.4	52.0	65.2	79.7	96.8	125.9	162.3
-55°	3.2	8.6	16.4	27.0	39.0	51.3	64.1	77.3	93.7	113.2	146.9
-57.5°	3.2	8.6	16.1	26.7	38.4	50.5	62.8	75.7	90.3	107.1	130.6
-60°	3.2	8.5	15.8	26.2	37.8	49.5	61.3	73.9	86.9	102.7	117.3
-62.5°	3.2	8.4	15.5	25.7	37.0	48.3	59.8	71.9	84.3	97.7	111.3
-65°	3.2	8.3	15.2	25.1	36.2	47.0	58.1	69.7	81.5	93.5	104.9
-67.5°	3.2	8.2	14.8	24.5	35.2	45.6	56.2	67.3	78.5	89.5	99.6
-70°	3.2	8.1	14.4	23.8	34.2	44.1	54.2	64.8	75.5	85.2	94.7
-72.5°	3.2	8.0	14.0	23.2	33.1	42.5	52.1	62.1	72.3	81.2	89.6
-75°	3.2	7.8	13.6	22.5	31.9	40.8	49.9	59.3	69.0	77.1	84.8
-77.5°	3.2	7.7	13.1	21.8	30.8	39.0	47.6	56.3	65.4	72.7	79.7
-80°	3.2	7.5	12.5	21.1	29.8	37.5	45.2	53.2	61.5	68.0	74.3
-82.5°	3.2	7.3	12.0	20.3	28.7	36.0	43.3	50.3	57.5	63.1	68.7
-85°	3.2	7.1	11.4	19.4	27.5	34.5	41.5	47.8	54.2	58.9	63.6
-87.5°	3.2	6.9	10.8	18.5	26.3	33.0	39.7	45.2	50.8	55.1	59.3
-90°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2



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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-VHE

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	57.9	60.8	63.4	65.9	68.8	71.7	74.9	78.1	81.3	84.5	87.1
87.5°	3.0	2.9	2.9	2.9	2.8	2.6	2.6	2.6	2.3	1.9	1.9
85°	3.2	3.2	3.2	3.2	3.0	2.8	2.7	2.6	2.4	2.3	2.3
82.5°	3.4	3.5	3.4	3.2	3.2	3.2	2.9	2.7	2.7	2.8	2.7
80°	3.7	3.8	3.6	3.4	3.3	3.2	3.1	3.1	3.2	3.2	3.0
77.5°	3.9	3.8	3.7	3.7	3.6	3.4	3.4	3.5	3.5	3.3	3.2
75°	4.1	3.9	3.9	3.9	3.7	3.7	3.8	3.8	3.7	3.6	3.5
72.5°	4.4	4.3	4.2	4.0	3.9	3.9	3.8	3.8	4.4	5.3	6.0
70°	4.7	4.6	4.5	4.4	4.3	4.3	5.0	6.5	8.1	9.3	11.0
67.5°	5.1	5.1	4.9	4.9	5.2	5.9	7.1	11.3	15.6	17.1	17.9
65°	5.7	5.6	5.6	6.0	6.4	9.6	13.8	18.8	24.1	25.1	24.1
62.5°	6.4	7.1	6.9	8.0	10.9	14.9	20.2	25.9	32.0	30.6	25.5
60°	8.8	9.2	10.2	12.7	16.0	20.5	26.5	28.9	31.4	31.9	24.8
57.5°	11.9	13.2	15.6	18.2	22.6	25.1	26.0	26.1	29.7	29.9	22.7
55°	16.5	18.8	22.5	25.5	28.3	25.6	25.6	27.9	29.2	27.0	20.2
52.5°	23.8	26.2	31.9	34.2	32.7	30.4	29.8	31.9	30.7	27.4	23.3
50°	31.8	38.7	42.5	44.4	40.8	40.3	37.1	39.0	40.1	38.3	40.1
47.5°	44.8	53.2	56.2	59.0	56.1	59.2	56.1	65.3	65.5	88.0	90.6
45°	60.6	71.9	75.5	82.0	87.0	89.8	107.7	108.9	156.7	175.5	215.9
42.5°	79.2	93.8	106.5	109.8	139.9	154.3	179.5	225.8	269.9	307.9	329.4
40°	102.9	118.5	145.2	174.9	209.2	242.9	280.5	334.7	381.4	401.9	412.7
37.5°	128.9	158.9	194.4	244.1	295.1	333.8	378.5	429.5	460.5	471.3	473.8
35°	156.9	200.1	259.4	311.7	366.3	418.4	460.0	508.8	519.1	527.8	575.8
32.5°	190.8	241.2	311.2	369.9	425.2	484.8	526.9	555.7	572.3	604.0	760.4
30°	224.9	284.0	353.3	415.7	480.1	536.8	576.9	604.9	623.9	773.4	1098.2
27.5°	252.9	320.8	389.7	462.1	533.3	590.1	628.7	654.2	764.6	1012.6	1512.6
25°	278.3	349.7	426.1	513.4	588.3	640.9	680.5	705.7	952.7	1458.9	1805.7
22.5°	302.1	377.7	467.2	567.6	643.1	687.7	725.8	862.6	1236.6	1911.3	2097.8
20°	325.4	411.3	511.9	613.6	694.4	727.5	767.4	1038.4	1601.8	2085.4	2289.7
17.5°	349.6	445.7	554.0	648.9	721.1	762.9	826.9	1209.0	1910.2	2237.8	2385.6
15°	373.7	478.3	588.3	680.0	747.5	797.6	962.9	1453.3	2101.2	2405.3	2544.5
12.5°	397.4	506.7	614.1	706.6	775.1	830.5	1087.3	1706.0	2273.8	2569.8	2754.0
10°	420.2	531.3	636.2	732.4	802.1	862.5	1213.0	1953.0	2429.6	2677.0	2831.5
7.5°	440.1	551.4	655.3	757.0	827.3	893.8	1350.8	2116.8	2495.9	2745.2	2870.7
5°	457.1	567.3	674.6	784.5	853.5	922.6	1476.0	2224.9	2521.1	2787.2	2911.7
2.5°	471.4	580.0	691.3	810.3	879.3	947.0	1563.7	2293.4	2538.3	2803.3	2952.0
0°	483.1	589.9	705.1	833.0	902.8	968.7	1629.0	2326.4	2543.9	2797.3	2989.9
-2.5°	490.7	604.3	730.6	854.9	922.1	986.9	1626.3	2345.8	2550.9	2829.6	3136.1
-5°	495.8	615.6	752.1	873.4	939.5	1002.9	1598.5	2331.7	2566.3	2878.7	3231.7
-7.5°	498.3	623.2	768.6	888.3	956.0	1020.8	1564.1	2298.8	2645.2	2979.7	3291.7
-10°	499.2	627.7	771.9	895.4	971.2	1038.4	1507.5	2229.9	2707.5	3022.0	3309.1
-12.5°	502.5	629.8	770.2	898.3	984.2	1054.4	1437.5	2184.3	2791.1	3048.0	3302.7
-15°	502.2	629.0	765.0	897.5	1000.1	1076.0	1344.4	2076.5	2842.2	3053.9	3285.7
-17.5°	497.9	625.4	757.2	894.4	1015.2	1092.1	1213.1	1854.8	2696.4	3028.1	3265.6
-20°	489.6	617.6	746.1	884.7	1023.6	1107.0	1197.4	1660.7	2396.4	2959.6	3227.7



REPORT NUMBER: P731313 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-VHE

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	477.6	606.1	732.6	868.5	1019.6	1123.9	1208.3	1471.9	2100.1	2858.1	3166.4
-25°	463.6	590.0	716.9	859.7	1013.7	1140.1	1210.6	1296.5	1842.3	2522.1	3060.6
-27.5°	448.1	570.3	699.7	841.1	1004.6	1137.2	1209.7	1290.7	1567.8	2108.7	2892.1
-30°	430.1	548.0	675.9	814.0	972.2	1106.6	1206.8	1273.8	1358.5	1784.5	2452.7
-32.5°	410.2	522.8	647.6	783.3	930.5	1072.4	1190.1	1260.3	1334.6	1480.4	2019.0
-35°	390.7	498.5	616.4	748.1	888.0	1026.0	1146.4	1246.1	1308.5	1390.4	1636.3
-37.5°	372.5	471.3	582.2	709.5	844.8	968.3	1098.6	1206.6	1292.0	1351.4	1450.8
-40°	351.6	440.8	547.2	666.4	787.9	905.5	1029.3	1150.8	1255.7	1334.0	1393.3
-42.5°	328.1	413.3	509.5	615.4	727.8	839.6	956.8	1077.1	1192.2	1295.5	1368.9
-45°	302.6	382.6	469.2	565.3	665.1	771.7	883.2	997.1	1111.3	1225.2	1315.8
-47.5°	273.0	348.9	431.0	511.8	603.8	701.7	805.4	912.5	1018.2	1128.0	1232.3
-50°	242.3	312.4	387.4	462.0	541.8	630.3	725.2	825.3	925.5	1027.0	1127.5
-52.5°	214.4	272.6	341.8	412.1	482.6	558.3	644.2	735.4	830.0	925.7	1013.6
-55°	184.6	237.0	293.8	359.7	425.9	491.7	561.5	644.1	729.7	818.5	897.4
-57.5°	161.7	201.2	250.2	304.6	366.2	428.5	489.7	551.7	628.3	707.2	773.5
-60°	142.7	171.2	208.7	254.7	303.7	361.3	418.9	476.5	535.7	592.2	653.5
-62.5°	125.3	148.5	174.9	207.0	249.6	294.0	345.2	398.2	452.4	501.2	546.2
-65°	117.8	128.9	148.7	172.7	197.1	235.2	276.1	317.9	364.9	408.0	448.7
-67.5°	109.9	120.1	130.5	143.1	165.0	187.5	210.1	247.0	283.9	317.2	350.3
-70°	103.5	111.4	120.5	129.8	139.2	152.2	172.4	193.2	214.1	237.1	265.1
-72.5°	97.3	104.4	111.6	118.8	127.3	136.2	145.5	154.9	169.3	187.1	203.1
-75°	91.3	97.2	103.7	110.4	117.0	123.8	131.3	140.0	148.7	157.3	165.4
-77.5°	85.5	90.9	96.3	101.9	107.7	113.7	120.3	127.2	134.3	141.4	147.7
-80°	79.4	84.5	89.2	94.0	99.1	104.3	109.8	115.5	121.7	128.3	133.9
-82.5°	72.9	77.1	81.4	85.6	90.4	95.1	99.8	104.6	109.7	114.9	119.6
-85°	66.7	69.6	73.3	77.0	81.3	85.5	89.5	93.5	98.0	102.4	106.1
-87.5°	62.3	65.2	68.1	71.0	74.4	77.8	81.1	84.4	88.1	91.8	94.6
-90°	2.9	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.3	1.9	1.9



REPORT NUMBER: P731313 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-VHE

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	89.6	91.5	93.4	94.4	95.3	97.3	99.2	102.1	104.9	108.1	111.3
87.5°	1.9	1.9	1.9	1.9	1.8	1.6	1.3	1.3	1.3	1.3	1.3
85°	2.3	2.4	2.4	2.2	1.9	1.9	1.8	1.8	1.9	1.6	1.3
82.5°	2.6	2.6	2.6	2.5	2.4	2.2	1.9	1.9	1.9	1.9	1.9
80°	2.8	2.7	2.6	2.6	2.6	2.5	2.4	2.2	1.9	2.2	2.5
77.5°	3.2	3.0	2.8	2.8	2.6	2.4	2.2	2.0	1.9	1.9	2.0
75°	3.3	3.4	3.8	3.9	3.8	3.5	2.9	2.8	2.9	2.8	2.6
72.5°	6.5	6.9	7.1	7.7	8.0	8.3	9.1	10.3	11.7	13.1	14.4
70°	13.1	14.9	15.4	15.4	15.3	15.8	16.4	17.2	18.2	19.1	19.8
67.5°	20.2	21.8	22.0	22.3	21.7	20.8	20.0	19.9	21.1	22.5	24.0
65°	24.6	23.0	21.7	21.5	21.1	20.0	18.3	17.1	16.8	16.6	16.7
62.5°	22.1	18.9	17.8	17.5	16.5	15.3	13.1	11.2	10.3	9.8	9.8
60°	19.2	15.4	13.1	12.1	10.6	9.0	7.6	6.2	5.8	5.6	5.7
57.5°	15.8	11.8	9.1	8.6	7.4	5.9	4.8	3.8	3.7	3.7	3.9
55°	14.5	12.3	10.3	9.6	8.2	7.5	6.5	5.2	4.8	5.2	5.7
52.5°	18.8	17.6	16.6	16.7	18.4	17.1	12.7	17.8	20.7	20.7	19.8
50°	41.1	36.9	52.7	50.8	63.4	71.9	65.3	73.3	84.7	92.8	98.4
47.5°	117.3	121.6	140.5	156.8	170.0	184.8	199.8	208.8	211.1	226.1	236.3
45°	236.2	250.3	271.3	282.0	302.7	327.3	344.5	352.2	397.4	453.7	490.1
42.5°	342.7	353.7	370.2	407.7	445.7	529.8	626.3	629.6	716.8	794.0	873.1
40°	417.3	437.9	496.6	585.5	790.7	950.8	1064.8	1176.5	1195.1	1158.8	1178.6
37.5°	513.7	587.3	736.2	976.0	1153.6	1314.4	1379.2	1387.6	1410.2	1424.4	1401.8
35°	695.6	940.6	1064.1	1268.0	1397.2	1428.5	1448.1	1467.4	1485.9	1498.5	1512.3
32.5°	1093.9	1397.4	1413.7	1466.1	1490.2	1518.1	1538.8	1550.9	1559.3	1570.4	1607.9
30°	1522.1	1592.8	1598.6	1594.5	1602.7	1621.5	1635.1	1657.2	1679.2	1704.6	1787.7
27.5°	1722.0	1776.2	1759.3	1730.4	1716.1	1731.0	1768.0	1802.4	1866.4	1933.8	2053.0
25°	1943.4	1979.2	1958.6	1907.3	1875.2	1896.4	1952.0	2017.6	2140.0	2247.9	2467.3
22.5°	2180.4	2247.0	2225.5	2210.1	2142.5	2152.6	2196.4	2344.4	2650.7	3135.6	4142.3
20°	2364.1	2445.6	2456.0	2456.3	2442.0	2446.2	2548.0	3025.3	3920.7	6734.4	9228.6
17.5°	2500.4	2548.2	2605.6	2629.1	2657.0	2738.4	3281.2	4932.6	8799.4	13974.4	17937.2
15°	2677.0	2738.2	2800.4	2839.7	2902.8	3350.5	4738.6	9810.4	16841.9	25625.2	36852.0
12.5°	2818.4	2893.8	2943.1	2974.4	3119.7	4297.6	9127.1	16428.5	27399.3	41028.9	61247.8
10°	2896.7	2955.4	3022.7	3130.8	3723.5	6233.7	12871.1	23086.2	39950.7	64501.1	91430.7
7.5°	2935.6	3011.6	3124.2	3288.4	4407.2	9100.1	17906.1	32586.3	55620.7	86190.7	123713.2
5°	2980.9	3121.5	3255.6	3443.5	4938.1	11169.8	21908.4	40688.7	69283.3	106679.7	153020.2
2.5°	3054.2	3265.7	3352.0	3532.6	5257.9	12502.1	24295.1	47026.0	79485.4	123399.4	175427.7
0°	3169.7	3345.6	3397.4	3579.1	5579.9	13161.1	25697.0	48763.7	84029.9	129910.6	184252.9
-2.5°	3300.1	3410.0	3467.4	3670.0	5741.5	13833.3	26800.0	49931.4	82947.6	127741.6	180937.4
-5°	3385.2	3472.5	3528.2	3726.1	5723.8	13161.0	25567.6	46498.4	76619.9	116684.5	164245.3
-7.5°	3443.2	3534.1	3592.3	3773.7	5385.4	11373.8	22582.5	40081.0	65113.8	97971.9	139052.4
-10°	3499.8	3599.0	3675.4	3818.7	4766.5	8682.7	17724.8	30238.2	50923.0	77066.7	107781.4
-12.5°	3550.9	3673.4	3771.7	3837.6	4185.2	6604.2	13025.6	23128.9	36653.9	56169.8	78645.9
-15°	3576.7	3723.3	3833.2	3906.0	4107.5	5222.0	8434.7	15304.7	25590.2	37695.6	52320.9
-17.5°	3532.2	3750.9	3856.7	3936.8	4003.0	4289.5	5949.8	9394.6	15818.8	23748.8	30893.1
-20°	3461.4	3753.9	3873.7	3981.5	4056.8	4134.9	4346.4	5982.8	8596.3	13461.3	18223.0



REPORT NUMBER: P731313 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-VHE

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3401.5	3673.5	3923.6	4040.1	4126.8	4132.5	4139.0	4336.0	5356.4	6995.5	9514.4
-25°	3360.0	3617.4	3908.4	4088.8	4148.9	4151.0	4118.3	4081.7	4197.4	4313.6	5234.1
-27.5°	3289.8	3569.0	3842.5	4062.5	4151.5	4148.5	4123.6	4099.2	4059.1	4032.9	4132.3
-30°	3204.0	3484.5	3739.1	3960.4	4092.3	4132.8	4115.9	4097.7	4085.3	4076.6	4058.8
-32.5°	2746.3	3380.7	3595.1	3796.0	3984.2	4066.6	4103.3	4094.8	4083.6	4078.8	4082.0
-35°	2243.3	2898.2	3455.1	3598.3	3761.6	3925.6	4041.3	4067.5	4079.1	4077.1	4082.1
-37.5°	1720.0	2310.1	2857.3	3314.7	3511.3	3681.9	3850.0	3961.5	4028.3	4039.9	4055.7
-40°	1482.4	1649.2	2167.6	2627.4	3009.9	3362.0	3540.1	3732.7	3883.0	3943.4	3975.2
-42.5°	1419.6	1485.9	1554.0	1891.1	2287.1	2622.8	2955.4	3285.9	3560.3	3715.5	3816.5
-45°	1392.2	1429.2	1468.5	1522.8	1571.4	1854.9	2160.2	2482.3	2842.9	3112.3	3363.1
-47.5°	1312.5	1386.9	1424.5	1447.5	1464.6	1502.1	1535.5	1626.2	1926.4	2162.4	2424.1
-50°	1207.1	1282.7	1344.1	1398.7	1417.3	1426.0	1436.0	1466.1	1514.1	1549.0	1601.7
-52.5°	1085.0	1156.0	1224.4	1282.8	1324.6	1360.5	1394.8	1418.6	1438.0	1458.1	1477.2
-55°	968.4	1028.8	1087.5	1142.3	1192.1	1233.5	1274.3	1313.1	1349.6	1383.8	1415.7
-57.5°	840.4	900.8	954.7	1003.9	1046.3	1080.9	1121.2	1164.0	1204.0	1239.6	1274.3
-60°	711.2	766.2	817.8	864.3	903.2	933.7	972.8	1011.2	1047.8	1081.0	1110.0
-62.5°	589.8	636.7	681.1	722.2	759.0	791.8	824.6	857.5	892.1	923.1	950.5
-65°	487.2	524.6	556.2	585.5	610.2	639.8	671.4	700.9	731.4	760.1	786.2
-67.5°	384.1	415.8	442.3	467.7	488.3	509.1	532.6	555.0	576.6	598.9	620.7
-70°	289.9	312.2	328.9	346.3	366.6	385.6	404.6	423.6	441.5	461.1	481.3
-72.5°	216.4	227.2	238.2	252.3	264.4	278.1	291.8	306.4	321.2	335.5	348.7
-75°	173.1	180.1	188.4	195.2	200.5	207.2	214.7	223.9	233.2	242.4	251.1
-77.5°	154.0	158.8	162.6	165.6	168.1	171.5	175.0	181.4	188.4	196.1	203.9
-80°	139.3	142.3	145.0	147.1	149.0	151.9	154.8	160.4	166.3	172.1	177.6
-82.5°	124.2	126.8	129.0	130.9	132.7	135.3	138.0	142.5	147.1	152.6	158.2
-85°	109.7	111.9	114.1	115.8	117.4	119.5	121.6	125.8	130.0	134.5	138.9
-87.5°	97.4	99.3	101.2	102.6	104.0	105.8	107.6	110.9	114.2	117.8	121.4
-90°	1.9	1.9	1.9	1.6	1.3	1.3	1.3	1.3	1.3	1.0	0.6



REPORT NUMBER: P731313 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-VHE

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	111.7	112.0	112.0	112.0	112.0	112.0	111.7	111.3	108.1	104.9	102.1
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.6	1.9	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°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.2	1.9	2.2
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	2.0
75°	2.3	1.9	1.9	1.9	1.9	1.9	2.3	2.6	2.8	2.9	2.8
72.5°	15.7	16.8	17.5	17.9	17.5	16.8	15.7	14.4	13.1	11.7	10.3
70°	20.2	20.4	20.5	20.5	20.5	20.4	20.2	19.8	19.1	18.2	17.2
67.5°	24.8	25.4	25.6	25.6	25.6	25.4	24.8	24.0	22.5	21.1	19.9
65°	15.9	14.7	13.6	12.8	13.6	14.7	15.9	16.7	16.6	16.8	17.1
62.5°	9.6	9.2	9.1	9.0	9.1	9.2	9.6	9.8	9.8	10.3	11.2
60°	5.7	5.9	5.5	5.1	5.5	5.9	5.7	5.7	5.6	5.8	6.2
57.5°	4.1	4.4	4.8	5.1	4.8	4.4	4.1	3.9	3.7	3.7	3.8
55°	6.2	6.7	7.2	7.7	7.2	6.7	6.2	5.7	5.2	4.8	5.2
52.5°	17.9	16.1	15.5	16.0	15.5	16.1	17.9	19.8	20.7	20.7	17.8
50°	101.3	103.3	105.8	108.8	105.8	103.3	101.3	98.4	92.8	84.7	73.3
47.5°	239.2	234.7	230.5	229.1	230.5	234.7	239.2	236.3	226.1	211.1	208.8
45°	453.6	420.2	403.2	413.3	403.2	420.2	453.6	490.1	453.7	397.4	352.2
42.5°	915.5	964.9	1003.5	1021.8	1003.5	964.9	915.5	873.1	794.0	716.8	629.6
40°	1147.7	1129.1	1139.1	1154.2	1139.1	1129.1	1147.7	1178.6	1158.8	1195.1	1176.5
37.5°	1412.8	1419.0	1374.3	1301.4	1374.3	1419.0	1412.8	1401.8	1424.4	1410.2	1387.6
35°	1541.4	1621.0	1769.9	1805.6	1769.9	1621.0	1541.4	1512.3	1498.5	1485.9	1467.4
32.5°	1702.4	1785.0	1810.3	1820.3	1810.3	1785.0	1702.4	1607.9	1570.4	1559.3	1550.9
30°	1894.8	1932.1	1922.7	1936.7	1922.7	1932.1	1894.8	1787.7	1704.6	1679.2	1657.2
27.5°	2105.6	2127.5	2120.3	2138.9	2120.3	2127.5	2105.6	2053.0	1933.8	1866.4	1802.4
25°	2649.8	2821.7	2812.8	2852.9	2812.8	2821.7	2649.8	2467.3	2247.9	2140.0	2017.6
22.5°	5367.9	5975.6	6339.6	6691.9	6339.6	5975.6	5367.9	4142.3	3135.6	2650.7	2344.4
20°	11993.7	13745.3	14126.6	13987.7	14126.6	13745.3	11993.7	9228.6	6734.4	3920.7	3025.3
17.5°	25745.0	32733.6	36486.1	36903.4	36486.1	32733.6	25745.0	17937.2	13974.4	8799.4	4932.6
15°	48450.5	60665.0	67600.0	68328.7	67600.0	60665.0	48450.5	36852.0	25625.2	16841.9	9810.4
12.5°	79204.8	98656.5	112936.2	114529.4	112936.2	98656.5	79204.8	61247.8	41028.9	27399.3	16428.5
10°	121331.2	147629.7	168425.6	173491.8	168425.6	147629.7	121331.2	91430.7	64501.1	39950.7	23086.2
7.5°	163377.5	193389.5	217864.9	223623.5	217864.9	193389.5	163377.5	123713.2	86190.7	55620.7	32586.3
5°	196246.6	234646.2	254177.9	260631.2	254177.9	234646.2	196246.6	153020.2	106679.7	69283.3	40688.7
2.5°	221300.9	257559.4	280489.0	289896.8	280489.0	257559.4	221300.9	175427.7	123399.4	79485.4	47026.0
0°	230972.4	266143.2	295342.9	313500.6	295342.9	266143.2	230972.4	184252.9	129910.6	84029.9	48763.7
-2.5°	227181.3	261044.7	285860.9	297639.5	285860.9	261044.7	227181.3	180937.4	127741.6	82947.6	49931.4
-5°	208016.2	242190.4	261377.7	267455.5	261377.7	242190.4	208016.2	164245.3	116684.5	76619.9	46498.4
-7.5°	175899.6	205980.6	228731.5	232809.7	228731.5	205980.6	175899.6	139052.4	97971.9	65113.8	40081.0
-10°	139411.1	165451.5	182807.4	186090.4	182807.4	165451.5	139411.1	107781.4	77066.7	50923.0	30238.2
-12.5°	98821.7	121695.4	135417.5	137949.6	135417.5	121695.4	98821.7	78645.9	56169.8	36653.9	23128.9
-15°	67154.3	81401.9	89718.8	90558.6	89718.8	81401.9	67154.3	52320.9	37695.6	25590.2	15304.7
-17.5°	42018.5	50493.3	55676.9	55725.0	55676.9	50493.3	42018.5	30893.1	23748.8	15818.8	9394.6
-20°	24326.2	28370.4	31270.5	31258.3	31270.5	28370.4	24326.2	18223.0	13461.3	8596.3	5982.8



REPORT NUMBER: P731313 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-VHE

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	12674.3	15077.9	16826.6	16746.6	16826.6	15077.9	12674.3	9514.4	6995.5	5356.4	4336.0
-25°	6223.7	7143.9	7756.3	7708.5	7756.3	7143.9	6223.7	5234.1	4313.6	4197.4	4081.7
-27.5°	4217.7	4319.0	4388.9	4396.2	4388.9	4319.0	4217.7	4132.3	4032.9	4059.1	4099.2
-30°	4051.9	4075.0	4099.4	4105.7	4099.4	4075.0	4051.9	4058.8	4076.6	4085.3	4097.7
-32.5°	4092.0	4110.0	4136.8	4153.7	4136.8	4110.0	4092.0	4082.0	4078.8	4083.6	4094.8
-35°	4094.9	4115.9	4146.8	4160.7	4146.8	4115.9	4094.9	4082.1	4077.1	4079.1	4067.5
-37.5°	4075.8	4101.5	4128.1	4140.3	4128.1	4101.5	4075.8	4055.7	4039.9	4028.3	3961.5
-40°	4003.5	4029.7	4049.1	4050.7	4049.1	4029.7	4003.5	3975.2	3943.4	3883.0	3732.7
-42.5°	3883.7	3916.2	3931.2	3928.5	3931.2	3916.2	3883.7	3816.5	3715.5	3560.3	3285.9
-45°	3601.0	3716.1	3772.6	3786.4	3772.6	3716.1	3601.0	3363.1	3112.3	2842.9	2482.3
-47.5°	2727.5	2896.2	3004.4	3047.5	3004.4	2896.2	2727.5	2424.1	2162.4	1926.4	1626.2
-50°	1670.6	1686.3	1696.6	1701.9	1696.6	1686.3	1670.6	1601.7	1549.0	1514.1	1466.1
-52.5°	1493.1	1497.6	1500.0	1500.4	1500.0	1497.6	1493.1	1477.2	1458.1	1438.0	1418.6
-55°	1438.8	1447.8	1453.5	1454.9	1453.5	1447.8	1438.8	1415.7	1383.8	1349.6	1313.1
-57.5°	1297.1	1302.3	1308.0	1311.6	1308.0	1302.3	1297.1	1274.3	1239.6	1204.0	1164.0
-60°	1127.5	1132.2	1133.1	1129.9	1133.1	1132.2	1127.5	1110.0	1081.0	1047.8	1011.2
-62.5°	965.4	969.8	974.1	975.7	974.1	969.8	965.4	950.5	923.1	892.1	857.5
-65°	798.5	800.7	801.7	799.8	801.7	800.7	798.5	786.2	760.1	731.4	700.9
-67.5°	631.0	635.3	641.5	645.6	641.5	635.3	631.0	620.7	598.9	576.6	555.0
-70°	486.0	484.0	488.2	491.4	488.2	484.0	486.0	481.3	461.1	441.5	423.6
-72.5°	350.4	348.3	346.9	344.2	346.9	348.3	350.4	348.7	335.5	321.2	306.4
-75°	250.6	248.1	247.7	247.0	247.7	248.1	250.6	251.1	242.4	233.2	223.9
-77.5°	204.1	203.1	201.8	200.3	201.8	203.1	204.1	203.9	196.1	188.4	181.4
-80°	178.1	178.2	177.5	176.6	177.5	178.2	178.1	177.6	172.1	166.3	160.4
-82.5°	158.5	158.5	158.0	157.4	158.0	158.5	158.5	158.2	152.6	147.1	142.5
-85°	139.2	139.4	138.8	138.2	138.8	139.4	139.2	138.9	134.5	130.0	125.8
-87.5°	121.8	122.2	121.9	121.6	121.9	122.2	121.8	121.4	117.8	114.2	110.9
-90°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.0	1.3	1.3



REPORT NUMBER: P731313 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-VHE

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	99.2	97.3	95.3	94.4	93.4	91.5	89.6	87.1	84.5	81.3	78.1
87.5°	1.3	1.6	1.8	1.9	1.9	1.9	1.9	1.9	1.9	2.3	2.6
85°	1.8	1.9	1.9	2.2	2.4	2.4	2.3	2.3	2.3	2.4	2.6
82.5°	1.9	2.2	2.4	2.5	2.6	2.6	2.6	2.7	2.8	2.7	2.7
80°	2.4	2.5	2.6	2.6	2.6	2.7	2.8	3.0	3.2	3.2	3.1
77.5°	2.2	2.4	2.6	2.8	2.8	3.0	3.2	3.2	3.3	3.5	3.5
75°	2.9	3.5	3.8	3.9	3.8	3.4	3.3	3.5	3.6	3.7	3.8
72.5°	9.1	8.3	8.0	7.7	7.1	6.9	6.5	6.0	5.3	4.4	3.8
70°	16.4	15.8	15.3	15.4	15.4	14.9	13.1	11.0	9.3	8.1	6.5
67.5°	20.0	20.8	21.7	22.3	22.0	21.8	20.2	17.9	17.1	15.6	11.3
65°	18.3	20.0	21.1	21.5	21.7	23.0	24.6	24.1	25.1	24.1	18.8
62.5°	13.1	15.3	16.5	17.5	17.8	18.9	22.1	25.5	30.6	32.0	25.9
60°	7.6	9.0	10.6	12.1	13.1	15.4	19.2	24.8	31.9	31.4	28.9
57.5°	4.8	5.9	7.4	8.6	9.1	11.8	15.8	22.7	29.9	29.7	26.1
55°	6.5	7.5	8.2	9.6	10.3	12.3	14.5	20.2	27.0	29.2	27.9
52.5°	12.7	17.1	18.4	16.7	16.6	17.6	18.8	23.3	27.4	30.7	31.9
50°	65.3	71.9	63.4	50.8	52.7	36.9	41.1	40.1	38.3	40.1	39.0
47.5°	199.8	184.8	170.0	156.8	140.5	121.6	117.3	90.6	88.0	65.5	65.3
45°	344.5	327.3	302.7	282.0	271.3	250.3	236.2	215.9	175.5	156.7	108.9
42.5°	626.3	529.8	445.7	407.7	370.2	353.7	342.7	329.4	307.9	269.9	225.8
40°	1064.8	950.8	790.7	585.5	496.6	437.9	417.3	412.7	401.9	381.4	334.7
37.5°	1379.2	1314.4	1153.6	976.0	736.2	587.3	513.7	473.8	471.3	460.5	429.5
35°	1448.1	1428.5	1397.2	1268.0	1064.1	940.6	695.6	575.8	527.8	519.1	508.8
32.5°	1538.8	1518.1	1490.2	1466.1	1413.7	1397.4	1093.9	760.4	604.0	572.3	555.7
30°	1635.1	1621.5	1602.7	1594.5	1598.6	1592.8	1522.1	1098.2	773.4	623.9	604.9
27.5°	1768.0	1731.0	1716.1	1730.4	1759.3	1776.2	1722.0	1512.6	1012.6	764.6	654.2
25°	1952.0	1896.4	1875.2	1907.3	1958.6	1979.2	1943.4	1805.7	1458.9	952.7	705.7
22.5°	2196.4	2152.6	2142.5	2210.1	2225.5	2247.0	2180.4	2097.8	1911.3	1236.6	862.6
20°	2548.0	2446.2	2442.0	2456.3	2456.0	2445.6	2364.1	2289.7	2085.4	1601.8	1038.4
17.5°	3281.2	2738.4	2657.0	2629.1	2605.6	2548.2	2500.4	2385.6	2237.8	1910.2	1209.0
15°	4738.6	3350.5	2902.8	2839.7	2800.4	2738.2	2677.0	2544.5	2405.3	2101.2	1453.3
12.5°	9127.1	4297.6	3119.7	2974.4	2943.1	2893.8	2818.4	2754.0	2569.8	2273.8	1706.0
10°	12871.1	6233.7	3723.5	3130.8	3022.7	2955.4	2896.7	2831.5	2677.0	2429.6	1953.0
7.5°	17906.1	9100.1	4407.2	3288.4	3124.2	3011.6	2935.6	2870.7	2745.2	2495.9	2116.8
5°	21908.4	11169.8	4938.1	3443.5	3255.6	3121.5	2980.9	2911.7	2787.2	2521.1	2224.9
2.5°	24295.1	12502.1	5257.9	3532.6	3352.0	3265.7	3054.2	2952.0	2803.3	2538.3	2293.4
0°	25697.0	13161.1	5579.9	3579.1	3397.4	3345.6	3169.7	2989.9	2797.3	2543.9	2326.4
-2.5°	26800.0	13833.3	5741.5	3670.0	3467.4	3410.0	3300.1	3136.1	2829.6	2550.9	2345.8
-5°	25567.6	13161.0	5723.8	3726.1	3528.2	3472.5	3385.2	3231.7	2878.7	2566.3	2331.7
-7.5°	22582.5	11373.8	5385.4	3773.7	3592.3	3534.1	3443.2	3291.7	2979.7	2645.2	2298.8
-10°	17724.8	8682.7	4766.5	3818.7	3675.4	3599.0	3499.8	3309.1	3022.0	2707.5	2229.9
-12.5°	13025.6	6604.2	4185.2	3837.6	3771.7	3673.4	3550.9	3302.7	3048.0	2791.1	2184.3
-15°	8434.7	5222.0	4107.5	3906.0	3833.2	3723.3	3576.7	3285.7	3053.9	2842.2	2076.5
-17.5°	5949.8	4289.5	4003.0	3936.8	3856.7	3750.9	3532.2	3265.6	3028.1	2696.4	1854.8
-20°	4346.4	4134.9	4056.8	3981.5	3873.7	3753.9	3461.4	3227.7	2959.6	2396.4	1660.7



REPORT NUMBER: P731313 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-VHE

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	4139.0	4132.5	4126.8	4040.1	3923.6	3673.5	3401.5	3166.4	2858.1	2100.1	1471.9
-25°	4118.3	4151.0	4148.9	4088.8	3908.4	3617.4	3360.0	3060.6	2522.1	1842.3	1296.5
-27.5°	4123.6	4148.5	4151.5	4062.5	3842.5	3569.0	3289.8	2892.1	2108.7	1567.8	1290.7
-30°	4115.9	4132.8	4092.3	3960.4	3739.1	3484.5	3204.0	2452.7	1784.5	1358.5	1273.8
-32.5°	4103.3	4066.6	3984.2	3796.0	3595.1	3380.7	2746.3	2019.0	1480.4	1334.6	1260.3
-35°	4041.3	3925.6	3761.6	3598.3	3455.1	2898.2	2243.3	1636.3	1390.4	1308.5	1246.1
-37.5°	3850.0	3681.9	3511.3	3314.7	2857.3	2310.1	1720.0	1450.8	1351.4	1292.0	1206.6
-40°	3540.1	3362.0	3009.9	2627.4	2167.6	1649.2	1482.4	1393.3	1334.0	1255.7	1150.8
-42.5°	2955.4	2622.8	2287.1	1891.1	1554.0	1485.9	1419.6	1368.9	1295.5	1192.2	1077.1
-45°	2160.2	1854.9	1571.4	1522.8	1468.5	1429.2	1392.2	1315.8	1225.2	1111.3	997.1
-47.5°	1535.5	1502.1	1464.6	1447.5	1424.5	1386.9	1312.5	1232.3	1128.0	1018.2	912.5
-50°	1436.0	1426.0	1417.3	1398.7	1344.1	1282.7	1207.1	1127.5	1027.0	925.5	825.3
-52.5°	1394.8	1360.5	1324.6	1282.8	1224.4	1156.0	1085.0	1013.6	925.7	830.0	735.4
-55°	1274.3	1233.5	1192.1	1142.3	1087.5	1028.8	968.4	897.4	818.5	729.7	644.1
-57.5°	1121.2	1080.9	1046.3	1003.9	954.7	900.8	840.4	773.5	707.2	628.3	551.7
-60°	972.8	933.7	903.2	864.3	817.8	766.2	711.2	653.5	592.2	535.7	476.5
-62.5°	824.6	791.8	759.0	722.2	681.1	636.7	589.8	546.2	501.2	452.4	398.2
-65°	671.4	639.8	610.2	585.5	556.2	524.6	487.2	448.7	408.0	364.9	317.9
-67.5°	532.6	509.1	488.3	467.7	442.3	415.8	384.1	350.3	317.2	283.9	247.0
-70°	404.6	385.6	366.6	346.3	328.9	312.2	289.9	265.1	237.1	214.1	193.2
-72.5°	291.8	278.1	264.4	252.3	238.2	227.2	216.4	203.1	187.1	169.3	154.9
-75°	214.7	207.2	200.5	195.2	188.4	180.1	173.1	165.4	157.3	148.7	140.0
-77.5°	175.0	171.5	168.1	165.6	162.6	158.8	154.0	147.7	141.4	134.3	127.2
-80°	154.8	151.9	149.0	147.1	145.0	142.3	139.3	133.9	128.3	121.7	115.5
-82.5°	138.0	135.3	132.7	130.9	129.0	126.8	124.2	119.6	114.9	109.7	104.6
-85°	121.6	119.5	117.4	115.8	114.1	111.9	109.7	106.1	102.4	98.0	93.5
-87.5°	107.6	105.8	104.0	102.6	101.2	99.3	97.4	94.6	91.8	88.1	84.4
-90°	1.3	1.3	1.3	1.6	1.9	1.9	1.9	1.9	1.9	2.3	2.6



REPORT NUMBER: P731313 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	74.9	71.7	68.8	65.9	63.4	60.8	57.9	55.0	51.2	47.3	42.5
87.5°	2.6	2.6	2.8	2.9	2.9	2.9	3.0	3.2	3.2	3.2	3.3
85°	2.7	2.8	3.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.4
82.5°	2.9	3.2	3.2	3.2	3.4	3.5	3.4	3.4	3.3	3.2	3.5
80°	3.1	3.2	3.3	3.4	3.6	3.8	3.7	3.6	3.7	3.7	3.7
77.5°	3.4	3.4	3.6	3.7	3.7	3.8	3.9	3.9	4.1	4.1	4.0
75°	3.8	3.7	3.7	3.9	3.9	3.9	4.1	4.3	4.4	4.5	4.3
72.5°	3.8	3.9	3.9	4.0	4.2	4.3	4.4	4.6	4.7	4.8	4.6
70°	5.0	4.3	4.3	4.4	4.5	4.6	4.7	4.9	5.0	5.0	4.9
67.5°	7.1	5.9	5.2	4.9	4.9	5.1	5.1	5.3	5.4	5.3	5.2
65°	13.8	9.6	6.4	6.0	5.6	5.6	5.7	5.9	5.9	6.0	5.6
62.5°	20.2	14.9	10.9	8.0	6.9	7.1	6.4	6.9	6.6	6.7	6.3
60°	26.5	20.5	16.0	12.7	10.2	9.2	8.8	8.0	7.9	7.6	7.2
57.5°	26.0	25.1	22.6	18.2	15.6	13.2	11.9	10.7	9.5	9.1	8.2
55°	25.6	25.6	28.3	25.5	22.5	18.8	16.5	14.4	11.9	11.0	9.4
52.5°	29.8	30.4	32.7	34.2	31.9	26.2	23.8	18.4	16.3	13.0	11.4
50°	37.1	40.3	40.8	44.4	42.5	38.7	31.8	26.3	21.2	15.9	13.5
47.5°	56.1	59.2	56.1	59.0	56.2	53.2	44.8	35.7	26.5	20.9	15.8
45°	107.7	89.8	87.0	82.0	75.5	71.9	60.6	46.0	36.0	26.3	18.1
42.5°	179.5	154.3	139.9	109.8	106.5	93.8	79.2	62.6	46.1	32.1	22.1
40°	280.5	242.9	209.2	174.9	145.2	118.5	102.9	81.4	57.0	39.5	27.4
37.5°	378.5	333.8	295.1	244.1	194.4	158.9	128.9	101.5	71.1	50.1	32.8
35°	460.0	418.4	366.3	311.7	259.4	200.1	156.9	124.1	89.9	61.2	38.5
32.5°	526.9	484.8	425.2	369.9	311.2	241.2	190.8	148.0	109.0	72.8	44.3
30°	576.9	536.8	480.1	415.7	353.3	284.0	224.9	170.8	128.3	84.8	51.0
27.5°	628.7	590.1	533.3	462.1	389.7	320.8	252.9	192.4	147.7	97.2	59.9
25°	680.5	640.9	588.3	513.4	426.1	349.7	278.3	212.9	166.2	110.2	68.3
22.5°	725.8	687.7	643.1	567.6	467.2	377.7	302.1	235.1	178.6	122.1	76.2
20°	767.4	727.5	694.4	613.6	511.9	411.3	325.4	252.4	190.2	133.0	83.5
17.5°	826.9	762.9	721.1	648.9	554.0	445.7	349.6	268.7	200.8	142.8	90.4
15°	962.9	797.6	747.5	680.0	588.3	478.3	373.7	284.4	210.5	151.7	96.4
12.5°	1087.3	830.5	775.1	706.6	614.1	506.7	397.4	299.3	219.1	160.0	101.5
10°	1213.0	862.5	802.1	732.4	636.2	531.3	420.2	314.7	229.8	167.9	106.1
7.5°	1350.8	893.8	827.3	757.0	655.3	551.4	440.1	332.1	240.2	175.0	110.1
5°	1476.0	922.6	853.5	784.5	674.6	567.3	457.1	348.1	249.7	181.3	113.5
2.5°	1563.7	947.0	879.3	810.3	691.3	580.0	471.4	362.5	258.2	186.5	116.3
0°	1629.0	968.7	902.8	833.0	705.1	589.9	483.1	374.9	265.5	190.7	118.4
-2.5°	1626.3	986.9	922.1	854.9	730.6	604.3	490.7	381.4	273.2	196.5	122.7
-5°	1598.5	1002.9	939.5	873.4	752.1	615.6	495.8	385.8	279.4	201.1	126.3
-7.5°	1564.1	1020.8	956.0	888.3	768.6	623.2	498.3	388.2	284.1	204.5	129.1
-10°	1507.5	1038.4	971.2	895.4	771.9	627.7	499.2	388.6	287.3	206.5	131.0
-12.5°	1437.5	1054.4	984.2	898.3	770.2	629.8	502.5	388.1	288.6	207.1	132.0
-15°	1344.4	1076.0	1000.1	897.5	765.0	629.0	502.2	385.4	286.3	205.6	132.0
-17.5°	1213.1	1092.1	1015.2	894.4	757.2	625.4	497.9	379.7	282.3	201.8	130.7
-20°	1197.4	1107.0	1023.6	884.7	746.1	617.6	489.6	370.8	276.5	196.7	128.2



REPORT NUMBER: P731313 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1208.3	1123.9	1019.6	868.5	732.6	606.1	477.6	359.0	269.1	190.3	124.9
-25°	1210.6	1140.1	1013.7	859.7	716.9	590.0	463.6	347.4	259.8	182.7	120.7
-27.5°	1209.7	1137.2	1004.6	841.1	699.7	570.3	448.1	339.3	252.2	173.8	115.7
-30°	1206.8	1106.6	972.2	814.0	675.9	548.0	430.1	329.1	243.7	166.7	109.8
-32.5°	1190.1	1072.4	930.5	783.3	647.6	522.8	410.2	316.7	233.3	160.7	106.1
-35°	1146.4	1026.0	888.0	748.1	616.4	498.5	390.7	302.0	221.1	153.2	103.0
-37.5°	1098.6	968.3	844.8	709.5	582.2	471.3	372.5	286.2	207.0	144.3	99.4
-40°	1029.3	905.5	787.9	666.4	547.2	440.8	351.6	268.4	194.3	133.9	94.9
-42.5°	956.8	839.6	727.8	615.4	509.5	413.3	328.1	248.2	180.6	126.0	89.6
-45°	883.2	771.7	665.1	565.3	469.2	382.6	302.6	226.4	165.2	118.9	85.5
-47.5°	805.4	701.7	603.8	511.8	431.0	348.9	273.0	206.9	148.2	110.8	83.9
-50°	725.2	630.3	541.8	462.0	387.4	312.4	242.3	185.3	137.6	101.6	82.0
-52.5°	644.2	558.3	482.6	412.1	341.8	272.6	214.4	162.3	125.9	96.8	79.7
-55°	561.5	491.7	425.9	359.7	293.8	237.0	184.6	146.9	113.2	93.7	77.3
-57.5°	489.7	428.5	366.2	304.6	250.2	201.2	161.7	130.6	107.1	90.3	75.7
-60°	418.9	361.3	303.7	254.7	208.7	171.2	142.7	117.3	102.7	86.9	73.9
-62.5°	345.2	294.0	249.6	207.0	174.9	148.5	125.3	111.3	97.7	84.3	71.9
-65°	276.1	235.2	197.1	172.7	148.7	128.9	117.8	104.9	93.5	81.5	69.7
-67.5°	210.1	187.5	165.0	143.1	130.5	120.1	109.9	99.6	89.5	78.5	67.3
-70°	172.4	152.2	139.2	129.8	120.5	111.4	103.5	94.7	85.2	75.5	64.8
-72.5°	145.5	136.2	127.3	118.8	111.6	104.4	97.3	89.6	81.2	72.3	62.1
-75°	131.3	123.8	117.0	110.4	103.7	97.2	91.3	84.8	77.1	69.0	59.3
-77.5°	120.3	113.7	107.7	101.9	96.3	90.9	85.5	79.7	72.7	65.4	56.3
-80°	109.8	104.3	99.1	94.0	89.2	84.5	79.4	74.3	68.0	61.5	53.2
-82.5°	99.8	95.1	90.4	85.6	81.4	77.1	72.9	68.7	63.1	57.5	50.3
-85°	89.5	85.5	81.3	77.0	73.3	69.6	66.7	63.6	58.9	54.2	47.8
-87.5°	81.1	77.8	74.4	71.0	68.1	65.2	62.3	59.3	55.1	50.8	45.2
-90°	2.6	2.6	2.6	2.6	2.6	2.6	2.9	3.2	3.2	3.2	3.2



REPORT NUMBER: P731313 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	37.7	31.3	25.0	17.6	10.2	6.7	3.2
87.5°	3.4	3.3	3.3	3.3	3.3	3.3	3.2
85°	3.5	3.5	3.4	3.4	3.4	3.4	3.2
82.5°	3.7	3.6	3.5	3.6	3.5	3.5	3.2
80°	3.8	3.7	3.6	3.7	3.7	3.5	3.2
77.5°	4.0	3.9	3.7	3.8	3.8	3.6	3.2
75°	4.2	4.1	3.9	4.0	3.9	3.7	3.2
72.5°	4.4	4.3	4.1	4.1	4.0	3.8	3.2
70°	4.6	4.6	4.4	4.2	4.1	3.9	3.2
67.5°	5.0	4.8	4.6	4.4	4.3	4.0	3.2
65°	5.4	5.1	4.8	4.6	4.4	4.0	3.2
62.5°	5.8	5.5	5.0	4.8	4.5	4.1	3.2
60°	6.2	5.9	5.3	4.9	4.7	4.2	3.2
57.5°	7.3	6.3	5.7	5.1	4.8	4.3	3.2
55°	8.5	6.7	6.1	5.3	5.0	4.4	3.2
52.5°	9.7	7.2	6.6	5.4	5.2	4.5	3.2
50°	11.1	8.6	7.1	5.6	5.5	4.6	3.2
47.5°	12.6	10.0	7.7	5.8	5.7	4.6	3.2
45°	14.6	11.4	8.3	6.3	5.9	4.7	3.2
42.5°	16.7	12.9	8.8	6.7	6.2	4.8	3.2
40°	18.9	14.4	9.8	7.3	6.5	4.9	3.2
37.5°	21.3	16.0	11.0	8.1	6.8	4.9	3.2
35°	23.8	17.8	12.2	8.9	7.1	5.0	3.2
32.5°	27.0	19.8	13.4	9.7	7.4	5.1	3.2
30°	31.7	21.8	14.6	10.5	7.7	5.2	3.2
27.5°	36.4	23.7	16.1	11.4	8.0	5.2	3.2
25°	41.0	25.6	17.7	12.2	8.4	5.3	3.2
22.5°	45.5	27.6	19.2	13.1	8.7	5.4	3.2
20°	49.9	29.7	20.7	14.0	9.0	5.4	3.2
17.5°	53.9	31.7	22.1	14.9	9.4	5.5	3.2
15°	57.5	33.6	23.4	15.7	9.7	5.5	3.2
12.5°	60.8	35.4	24.7	16.6	10.0	5.6	3.2
10°	63.8	37.1	25.9	17.4	10.4	5.6	3.2
7.5°	66.4	38.7	27.1	18.3	10.7	5.7	3.2
5°	68.7	40.2	28.1	19.0	11.0	5.7	3.2
2.5°	70.7	41.6	29.2	19.8	11.2	5.8	3.2
0°	72.3	42.9	30.1	20.5	11.5	5.8	3.2
-2.5°	74.6	44.7	31.4	21.4	12.1	6.0	3.2
-5°	76.6	46.3	32.6	22.3	12.7	6.3	3.2
-7.5°	78.2	47.8	33.8	23.0	13.2	6.5	3.2
-10°	79.4	49.2	34.9	23.8	13.8	6.8	3.2
-12.5°	80.2	50.4	35.8	24.5	14.3	7.0	3.2
-15°	80.6	51.4	36.7	25.1	14.7	7.2	3.2
-17.5°	80.6	52.3	37.5	25.6	15.1	7.4	3.2
-20°	80.2	53.0	38.1	26.1	15.5	7.6	3.2



REPORT NUMBER: P731313 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	79.6	53.6	38.7	26.6	15.9	7.7	3.2
-25°	78.5	54.0	39.1	26.9	16.2	7.9	3.2
-27.5°	77.0	54.4	39.5	27.2	16.5	8.0	3.2
-30°	74.9	54.6	39.7	27.5	16.7	8.2	3.2
-32.5°	72.4	54.6	40.0	27.7	16.9	8.3	3.2
-35°	71.4	54.4	40.2	27.8	17.0	8.4	3.2
-37.5°	71.0	54.2	40.3	27.8	17.1	8.5	3.2
-40°	70.3	54.2	40.3	27.8	17.1	8.6	3.2
-42.5°	69.5	54.0	40.2	27.8	17.1	8.6	3.2
-45°	68.4	53.7	40.2	27.7	17.1	8.6	3.2
-47.5°	67.0	53.3	40.0	27.6	17.0	8.7	3.2
-50°	66.1	52.7	39.8	27.5	16.8	8.7	3.2
-52.5°	65.2	52.0	39.4	27.3	16.6	8.6	3.2
-55°	64.1	51.3	39.0	27.0	16.4	8.6	3.2
-57.5°	62.8	50.5	38.4	26.7	16.1	8.6	3.2
-60°	61.3	49.5	37.8	26.2	15.8	8.5	3.2
-62.5°	59.8	48.3	37.0	25.7	15.5	8.4	3.2
-65°	58.1	47.0	36.2	25.1	15.2	8.3	3.2
-67.5°	56.2	45.6	35.2	24.5	14.8	8.2	3.2
-70°	54.2	44.1	34.2	23.8	14.4	8.1	3.2
-72.5°	52.1	42.5	33.1	23.2	14.0	8.0	3.2
-75°	49.9	40.8	31.9	22.5	13.6	7.8	3.2
-77.5°	47.6	39.0	30.8	21.8	13.1	7.7	3.2
-80°	45.2	37.5	29.8	21.1	12.5	7.5	3.2
-82.5°	43.3	36.0	28.7	20.3	12.0	7.3	3.2
-85°	41.5	34.5	27.5	19.4	11.4	7.1	3.2
-87.5°	39.7	33.0	26.3	18.5	10.8	6.9	3.2
-90°	3.2	3.2	3.2	3.2	3.2	3.2	3.2

(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

