

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: P731437 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-80-3S-VHE**

Issue Date: 11/16/2023

**Test Information**

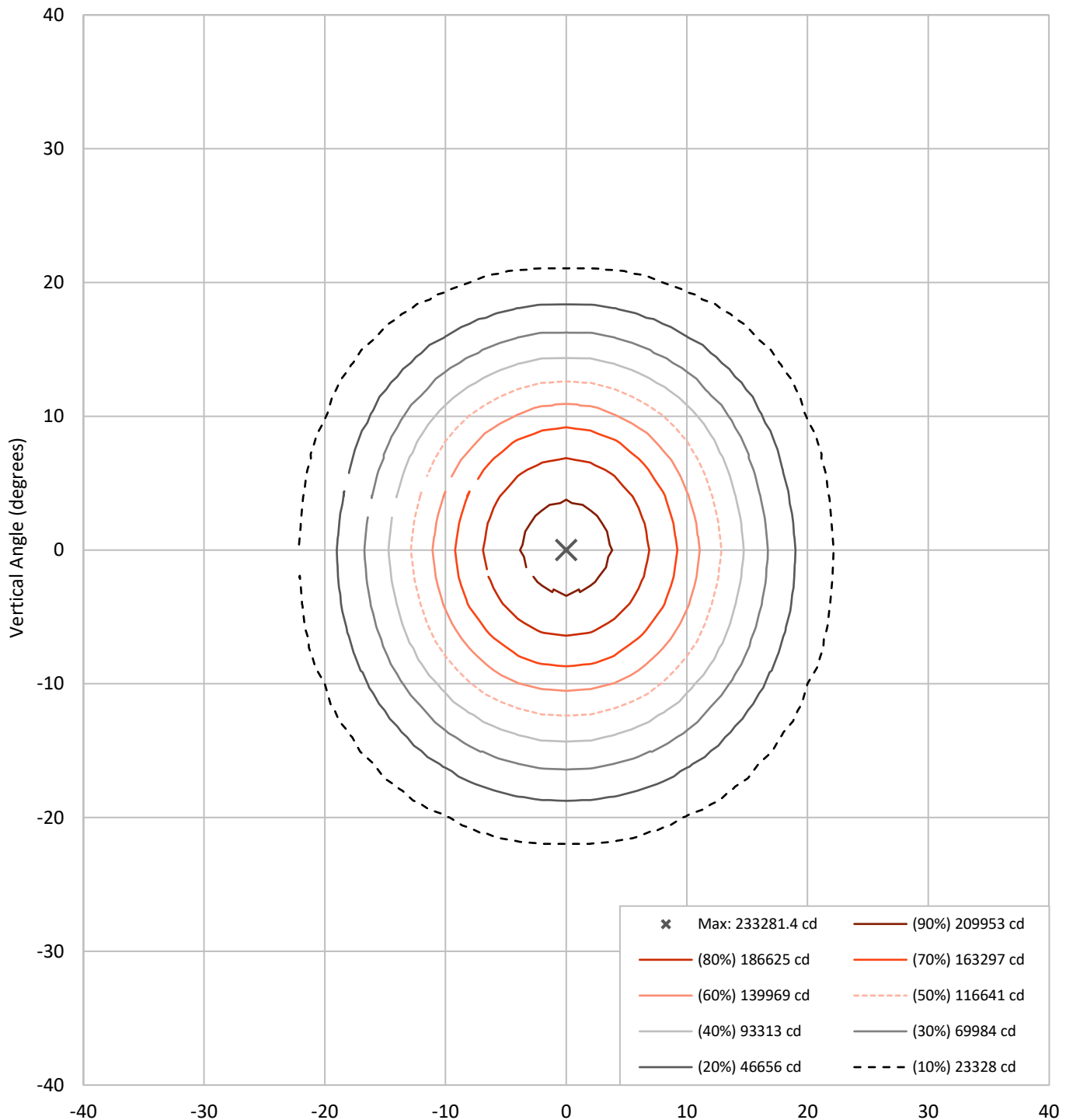
Test Method: LM-79-08  
Report Number: P731437 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320N-57-80-3S-VHE  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 5700K, 80 CRI LEDS AND 3S 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:	52411.4 lumens	Max Intensity:	233281.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	151.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	25.7°H x 24.9°V	Field Angle (10%):	44.2°H x 43°V
Beam Lumens:	25076.6 lumens	Field Lumens:	43940.5 lumens
Beam Efficiency:	47.8%	Field Efficiency:	83.8%
Input Watts (W):	345.8		
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





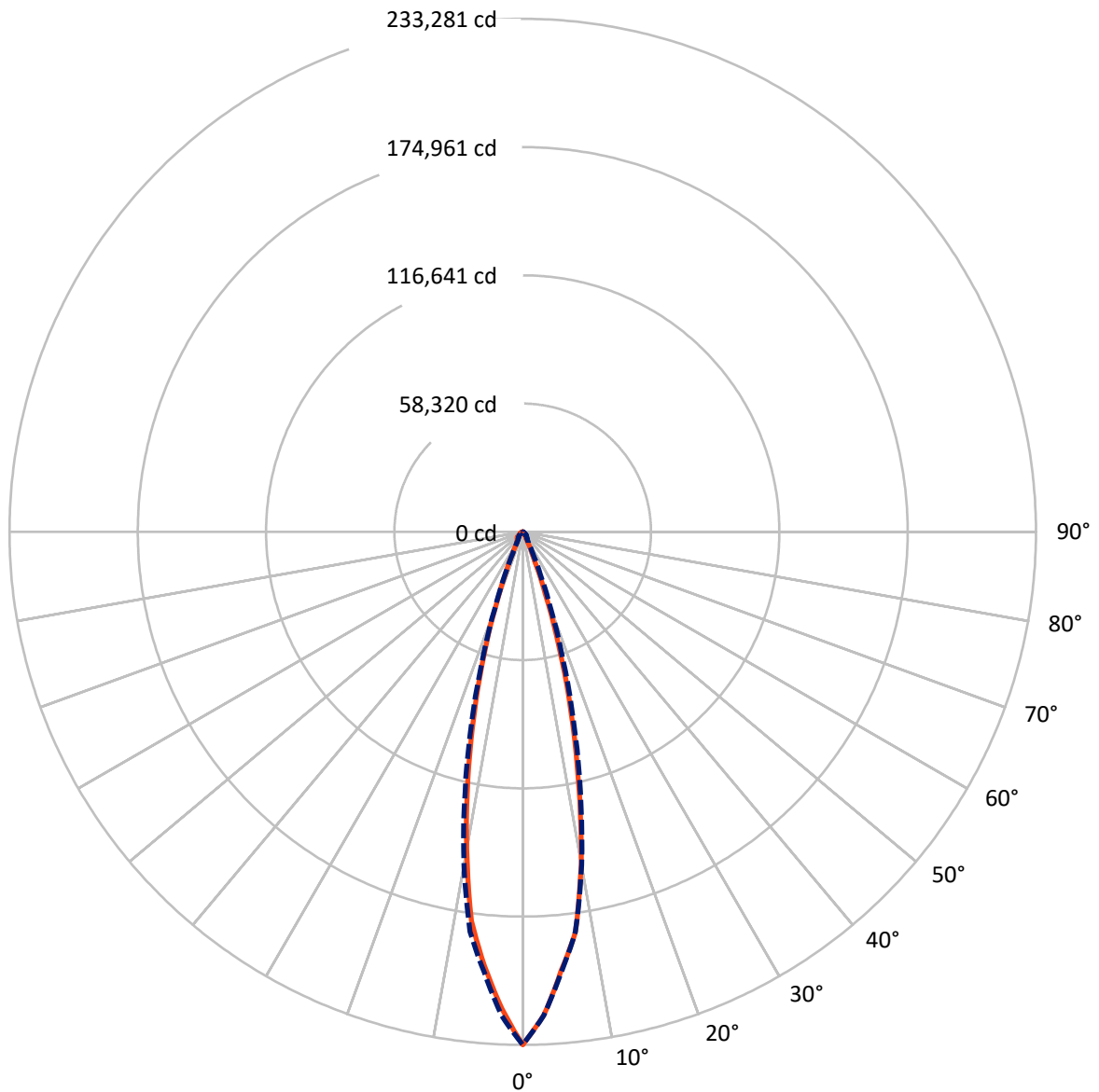
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### Lumen Table

90																			
80	0.1	0.4		0.8		1.2		1.5		1.2		0.8		0.4		0.1			
70																			
60	0.2	0.1	0.1	0.4	0.5	0.4	0.3	0.3	0.3	0.3	0.4	0.5	0.4	0.1	0.1	0.2			
50		0.2	0.5	0.7	0.6	0.6	0.8	0.9	0.9	0.8	0.6	0.6	0.7	0.5	0.2				
40	0.5	0.7	1.8	3.7	6.8	11.6	16.5	18.6	18.6	16.5	11.6	6.8	3.7	1.8	0.7	0.5			
30		1.8	5.6	11.5	21.6	35.8	43.3	50.8	50.8	43.3	35.8	21.6	11.5	5.6	1.8				
20	1.2	3.0	9.3	20.5	46.0	59.1	127.7	279.2	279.2	127.7	59.1	46.0	20.5	9.3	3.0	1.2			
10		4.0	12.3	33.4	66.0	159.5	960.6	2322.4	2322.4	960.6	159.5	66.0	33.4	12.3	4.0				
0	1.8	4.8	14.2	42.5	79.9	354.0	2333.2	5314.3	5314.3	2333.2	354.0	79.9	42.5	14.2	4.8	1.8			
-10		5.3	15.7	45.0	88.5	364.8	2347.3	5259.1	5259.1	2347.3	364.8	88.5	45.0	15.7	5.3				
-20	1.9	5.4	16.2	43.4	88.2	195.6	1001.7	2344.1	2344.1	1001.7	195.6	88.2	43.4	16.2	5.4	1.9			
-30		5.0	15.4	34.4	79.4	119.8	207.6	394.8	394.8	207.6	119.8	79.4	34.4	15.4	5.0				
-40	1.6	4.3	13.2	27.5	54.8	95.9	118.3	131.3	131.3	118.3	95.9	54.8	27.5	13.2	4.3	1.6			
-50		3.3	10.1	21.3	34.7	51.2	75.1	93.6	93.6	75.1	51.2	34.7	21.3	10.1	3.3				
-60	1.3	2.2	6.5	13.9	23.4	31.8	38.6	42.8	42.8	38.6	31.8	23.4	13.9	6.5	2.2	1.3			
-70		1.6	3.5	7.2	12.2	16.8	21.2	23.8	23.8	21.2	16.8	12.2	7.2	3.5	1.6				
-80																			
-90	1.0	5.7		13.3		21.6		26.6		21.6		13.3		5.7		1.0			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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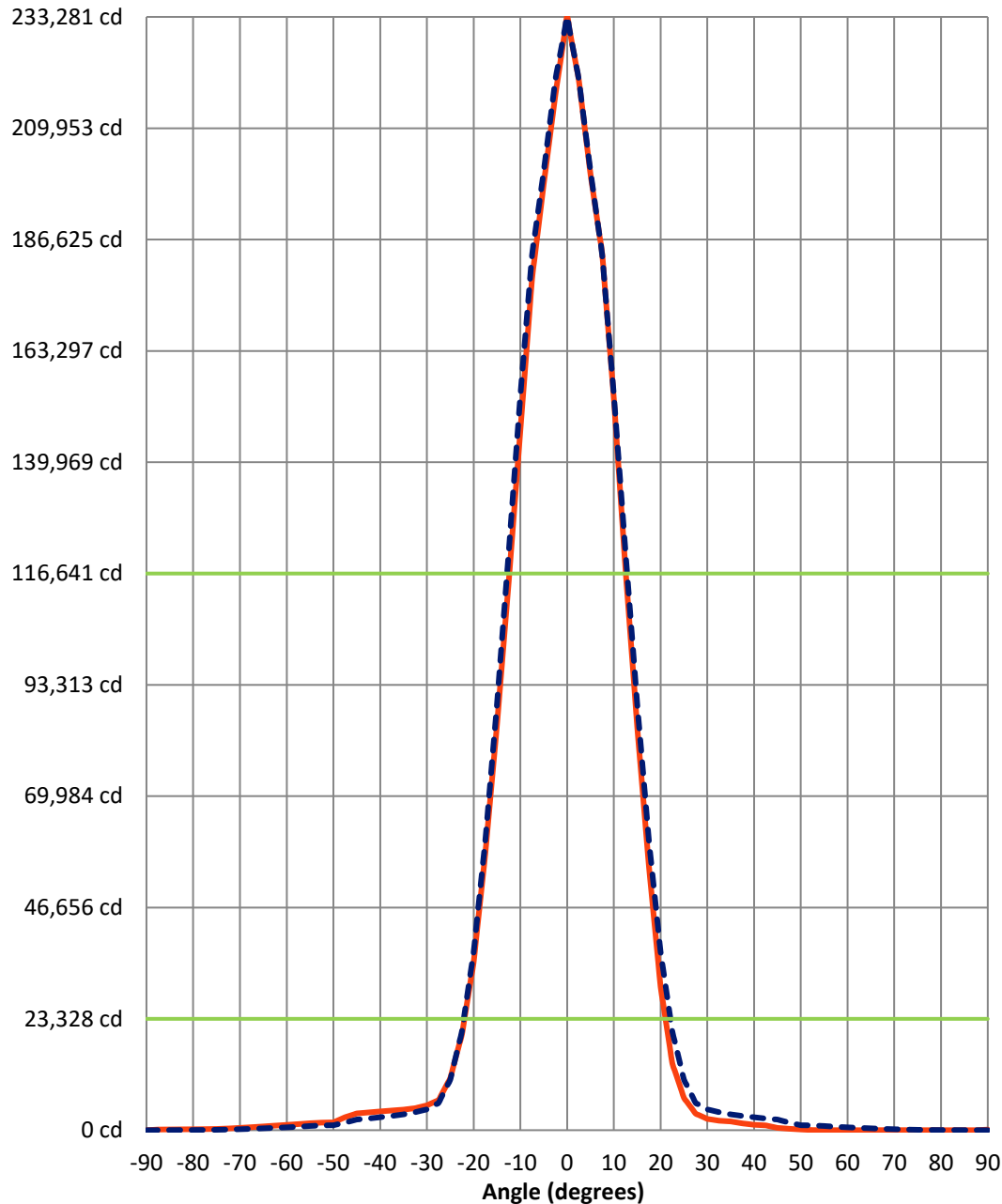
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 25.7°  
 V Angle: 24.9°  
 Lumens: 25076.6  
 Efficiency: 47.8%

**Field:**  
 H Angle: 44.2°  
 V Angle: 43°  
 Lumens: 43940.5  
 Efficiency: 83.8%

**Spill:**  
 Lumens: 8470.9  
 Efficiency: 16.2%

— 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°	1.9	7.8	13.7	22.1	30.6	37.8	45.0	50.3	55.6	60.0	64.3
87.5°	1.9	2.0	2.0	2.1	2.1	2.1	2.1	1.8	1.6	1.6	1.5
85°	1.9	2.2	2.1	2.2	2.3	2.3	2.2	2.1	2.1	2.0	1.8
82.5°	1.9	2.3	2.2	2.4	2.5	2.5	2.4	2.4	2.5	2.3	2.1
80°	1.9	2.5	2.3	2.5	2.7	2.7	2.6	2.7	2.7	2.6	2.4
77.5°	1.9	2.6	2.5	2.7	2.9	3.0	2.9	3.0	3.0	2.8	2.6
75°	1.9	2.8	2.6	2.8	3.2	3.3	3.2	3.3	3.2	3.2	3.0
72.5°	1.9	3.0	2.7	3.0	3.5	3.7	3.6	3.6	3.7	3.6	3.3
70°	1.9	3.1	2.9	3.2	3.9	4.0	4.0	4.3	4.3	4.1	4.2
67.5°	1.9	3.3	3.1	3.5	4.2	4.4	4.8	5.0	4.9	5.2	5.2
65°	1.9	3.4	3.3	3.9	4.6	5.0	5.6	5.7	6.2	6.4	6.4
62.5°	1.9	3.6	3.5	4.3	5.0	5.9	6.4	6.9	7.6	7.7	7.7
60°	1.9	3.7	3.7	4.7	5.5	6.7	7.4	8.3	9.1	9.3	9.1
57.5°	1.9	3.9	4.1	5.1	6.3	7.6	8.7	9.9	11.1	11.2	12.4
55°	1.9	4.1	4.5	5.5	7.2	8.6	10.2	11.5	13.3	14.0	16.8
52.5°	1.9	4.2	5.0	5.9	8.1	9.6	11.7	13.8	15.8	19.4	21.5
50°	1.9	4.4	5.5	6.3	9.0	11.0	13.2	16.3	19.3	25.2	30.3
47.5°	1.9	4.6	5.9	6.8	9.9	12.4	14.8	18.9	25.1	31.4	40.8
45°	1.9	4.8	6.4	7.6	10.9	13.9	17.2	21.5	31.3	42.2	52.4
42.5°	1.9	4.9	6.9	8.3	11.8	15.5	19.5	26.0	37.7	53.7	70.2
40°	1.9	5.1	7.4	9.2	12.9	17.1	22.1	31.7	45.7	66.1	90.3
37.5°	1.9	5.3	7.9	10.2	14.2	18.7	25.0	37.6	57.0	80.7	111.8
35°	1.9	5.5	8.4	11.3	15.4	20.8	27.9	43.6	68.8	99.7	135.9
32.5°	1.9	5.6	8.9	12.3	16.7	23.1	31.5	49.9	81.0	118.7	159.8
30°	1.9	5.8	9.4	13.3	18.0	25.4	36.7	57.2	93.5	137.8	182.1
27.5°	1.9	6.0	9.9	14.4	19.6	27.7	41.8	66.7	106.3	156.9	202.9
25°	1.9	6.1	10.5	15.4	21.2	30.0	46.8	75.7	119.2	174.7	222.3
22.5°	1.9	6.3	11.0	16.4	22.8	32.3	51.7	84.2	131.0	186.8	243.3
20°	1.9	6.5	11.5	17.4	24.4	34.7	56.5	92.1	141.7	198.0	260.3
17.5°	1.9	6.6	12.0	18.4	25.9	36.9	60.9	99.4	151.3	208.4	276.3
15°	1.9	6.8	12.5	19.4	27.4	39.1	64.9	106.0	159.7	217.7	291.4
12.5°	1.9	6.9	12.9	20.3	28.8	41.1	68.7	111.8	168.3	226.1	305.5
10°	1.9	7.0	13.4	21.2	30.2	43.0	72.1	117.1	177.1	238.6	320.9
7.5°	1.9	7.2	13.8	22.1	31.5	44.8	75.2	121.7	185.2	251.2	340.1
5°	1.9	7.3	14.2	22.9	32.7	46.4	78.0	125.7	192.5	263.1	358.0
2.5°	1.9	7.4	14.6	23.7	33.9	47.9	80.4	129.1	198.9	273.9	374.1
0°	1.9	7.5	15.0	24.4	35.0	49.3	82.4	131.8	204.2	283.5	388.4
-2.5°	1.9	7.8	15.7	25.5	36.6	51.4	85.1	136.3	210.2	290.0	395.1
-5°	1.9	8.1	16.3	26.5	38.0	53.3	87.3	140.0	215.0	295.1	399.6
-7.5°	1.9	8.4	16.9	27.5	39.4	55.1	89.2	142.9	218.5	298.8	402.0
-10°	1.9	8.7	17.5	28.4	40.7	56.7	90.6	144.9	220.7	301.0	402.3
-12.5°	1.9	8.9	18.0	29.2	41.8	58.2	91.5	146.0	221.5	301.7	401.4
-15°	1.9	9.2	18.5	29.9	42.9	59.4	92.1	146.1	220.2	299.8	398.4
-17.5°	1.9	9.4	19.0	30.6	43.9	60.5	92.1	144.8	216.6	296.3	392.5
-20°	1.9	9.6	19.4	31.2	44.7	61.4	91.8	142.3	211.8	291.0	383.7



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 CATALOG NUMBER: EPH-LS-08-0320N-57-80-3S-VHE

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	1.9	9.8	19.8	31.8	45.4	62.1	91.1	139.0	205.6	284.1	372.2
-25°	1.9	10.0	20.1	32.2	46.0	62.7	89.9	134.8	198.2	275.4	360.1
-27.5°	1.9	10.1	20.4	32.6	46.5	63.2	88.2	129.7	189.5	267.5	351.5
-30°	1.9	10.3	20.6	32.9	46.8	63.6	86.1	123.8	182.5	258.9	341.0
-32.5°	1.9	10.4	20.8	33.1	47.3	63.7	83.4	119.9	176.5	248.8	328.6
-35°	1.9	10.5	21.0	33.2	47.6	63.7	82.5	116.6	168.9	237.3	314.1
-37.5°	1.9	10.6	21.1	33.3	47.8	63.6	82.2	112.9	159.8	224.4	298.8
-40°	1.9	10.6	21.2	33.2	47.9	63.7	81.7	108.3	149.1	211.8	281.5
-42.5°	1.9	10.7	21.2	33.1	48.0	63.7	81.0	103.0	141.1	196.8	261.5
-45°	1.9	10.7	21.1	33.1	47.9	63.5	80.0	99.0	134.1	180.1	239.5
-47.5°	1.9	10.7	21.1	33.0	47.7	63.2	78.7	97.5	126.1	162.2	219.1
-50°	1.9	10.7	20.9	32.9	47.4	62.7	77.8	95.5	116.7	151.4	197.0
-52.5°	1.9	10.6	20.8	32.8	46.9	62.0	76.8	93.3	111.5	139.8	174.1
-55°	1.9	10.6	20.5	32.5	46.3	61.1	75.6	90.7	108.1	127.5	159.6
-57.5°	1.9	10.5	20.3	32.2	45.6	60.0	74.2	89.0	104.4	121.3	144.4
-60°	1.9	10.4	20.0	31.9	44.8	58.8	72.6	86.8	100.6	116.7	131.7
-62.5°	1.9	10.3	19.7	31.4	44.1	57.4	70.9	84.4	97.6	111.6	125.5
-65°	1.9	10.1	19.3	30.9	43.3	55.9	69.0	81.7	94.3	107.0	118.8
-67.5°	1.9	10.0	18.9	30.2	42.4	54.4	67.0	79.1	90.8	102.6	113.2
-70°	1.9	9.8	18.5	29.5	41.4	52.9	64.8	76.2	87.3	97.9	108.0
-72.5°	1.9	9.6	18.0	28.8	40.3	51.2	62.5	73.2	83.7	93.3	102.7
-75°	1.9	9.4	17.5	28.1	39.1	49.4	60.1	69.9	79.9	88.5	97.0
-77.5°	1.9	9.1	16.9	27.2	37.9	47.5	57.5	66.5	75.7	83.5	91.1
-80°	1.9	8.9	16.4	26.3	36.6	45.6	54.7	62.9	71.3	78.3	85.2
-82.5°	1.9	8.6	15.7	25.4	35.2	43.8	52.4	59.5	66.8	73.0	79.2
-85°	1.9	8.4	15.1	24.3	33.7	41.9	50.0	56.5	63.1	68.4	73.7
-87.5°	1.9	8.1	14.4	23.3	32.2	39.9	47.5	53.5	59.4	64.2	69.0
-90°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.6	1.2	1.2	1.2





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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	67.8	71.2	74.3	77.4	80.3	83.1	86.9	90.6	93.4	96.2	99.0
87.5°	1.5	1.5	1.6	1.6	1.4	1.2	1.2	1.2	1.1	1.1	1.1
85°	1.8	1.9	1.9	1.9	1.6	1.4	1.4	1.5	1.5	1.6	1.4
82.5°	2.1	2.2	2.1	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.7
80°	2.4	2.5	2.3	2.1	2.2	2.2	2.1	1.9	1.9	1.9	2.0
77.5°	2.6	2.5	2.4	2.4	2.5	2.6	2.6	2.6	2.6	2.5	2.5
75°	2.8	2.6	2.7	2.6	2.6	2.9	3.1	3.1	3.0	2.9	2.9
72.5°	3.3	3.3	3.1	2.8	2.8	3.1	3.1	3.1	3.9	5.2	6.2
70°	4.1	4.0	3.8	3.5	3.4	3.6	4.7	6.5	8.4	10.2	11.8
67.5°	5.0	4.8	4.5	4.5	5.2	6.2	7.6	12.0	16.6	18.1	18.4
65°	5.9	5.7	5.8	6.5	7.4	10.5	14.5	19.8	24.3	24.0	22.1
62.5°	6.9	7.8	7.8	9.3	12.4	16.1	20.8	25.4	29.3	27.4	22.9
60°	9.9	10.4	11.9	14.7	17.9	21.6	26.5	28.0	29.0	28.3	22.2
57.5°	13.6	15.2	18.2	20.8	24.6	26.3	26.7	26.4	28.1	27.0	20.9
55°	19.1	21.9	25.8	28.6	30.8	27.5	27.1	28.8	28.7	26.2	20.2
52.5°	27.2	30.2	35.7	37.7	36.0	33.4	32.4	34.1	32.8	29.5	25.5
50°	36.1	43.2	46.8	48.4	45.3	44.9	41.6	43.7	45.4	43.8	49.3
47.5°	49.6	58.1	60.8	63.7	62.2	67.9	65.0	75.7	76.4	107.8	117.2
45°	65.9	77.3	80.4	88.0	96.3	106.3	123.5	128.1	179.7	211.2	248.4
42.5°	85.6	99.9	112.8	117.1	154.2	174.3	200.2	248.3	296.3	335.8	363.5
40°	110.9	125.4	152.7	185.2	224.7	258.9	308.3	363.9	409.8	440.1	454.4
37.5°	138.7	167.2	202.9	255.5	303.5	347.0	410.2	465.9	506.5	534.6	538.1
35°	168.6	209.1	267.5	320.9	370.4	429.4	492.1	556.1	589.4	601.5	653.1
32.5°	203.5	249.9	319.1	377.0	432.8	499.7	566.3	621.6	651.0	685.2	859.9
30°	236.5	292.7	361.6	423.1	492.3	568.4	632.1	684.2	704.5	884.0	1166.5
27.5°	262.8	329.8	399.0	473.2	552.6	639.6	703.9	737.7	854.1	1119.7	1528.2
25°	287.3	359.5	436.8	529.5	619.8	706.0	771.4	793.1	1035.1	1485.4	1789.9
22.5°	311.3	388.4	478.4	589.0	681.5	761.9	816.6	947.7	1294.6	1864.9	2023.0
20°	335.3	422.6	523.8	634.1	736.0	811.1	853.1	1110.8	1609.7	2010.7	2188.6
17.5°	358.5	457.0	565.3	671.9	774.6	850.8	905.2	1248.4	1859.3	2141.6	2316.6
15°	381.0	486.4	597.4	707.4	812.2	885.6	1033.0	1450.3	2014.3	2299.8	2484.7
12.5°	402.6	511.6	621.0	738.2	848.6	919.4	1165.7	1694.9	2176.0	2455.7	2655.6
10°	423.0	532.7	641.6	766.4	882.5	948.8	1290.2	1923.4	2324.0	2566.7	2747.9
7.5°	443.6	551.8	660.2	791.8	914.4	975.6	1395.5	2048.5	2382.1	2640.0	2813.0
5°	461.7	569.4	682.2	823.1	945.3	1000.3	1484.3	2132.6	2400.5	2676.7	2859.8
2.5°	477.2	584.0	701.4	852.4	973.1	1022.6	1544.9	2196.8	2422.8	2702.7	2918.0
0°	490.2	595.8	717.6	877.4	996.7	1042.9	1585.0	2231.4	2436.8	2714.1	2982.7
-2.5°	499.8	611.5	743.4	898.7	1016.1	1064.1	1597.6	2246.3	2457.3	2777.1	3127.7
-5°	506.8	624.1	765.0	915.6	1031.9	1083.6	1588.6	2232.4	2481.8	2835.3	3219.8
-7.5°	511.3	633.2	781.7	928.3	1045.0	1105.6	1561.5	2216.5	2558.3	2908.3	3266.2
-10°	513.3	637.9	784.2	933.0	1055.6	1127.6	1515.2	2162.7	2613.6	2936.2	3270.0
-12.5°	515.1	638.9	781.1	932.2	1062.1	1147.8	1457.0	2098.1	2664.5	2946.6	3246.4
-15°	513.5	636.9	774.2	926.4	1070.5	1173.3	1382.5	1978.2	2687.2	2935.6	3201.9
-17.5°	508.4	632.0	764.7	918.9	1075.9	1197.0	1284.9	1793.5	2565.0	2901.7	3168.0
-20°	499.5	623.2	751.1	904.6	1073.0	1207.3	1282.4	1658.4	2309.1	2835.2	3117.6



REPORT NUMBER: P731437 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-3S-VHE

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	487.8	610.7	734.9	885.6	1056.1	1203.0	1300.3	1509.4	2019.1	2737.7	3041.8
-25°	474.1	594.7	718.2	865.1	1032.5	1195.0	1310.1	1372.1	1779.3	2407.1	2921.3
-27.5°	458.3	575.8	699.1	837.8	1001.7	1170.9	1294.1	1376.0	1584.4	2029.1	2738.2
-30°	439.6	553.9	674.5	806.1	964.0	1125.5	1266.8	1371.0	1431.9	1771.1	2341.3
-32.5°	418.5	528.8	646.5	775.7	921.5	1076.7	1226.0	1338.8	1422.3	1533.3	1967.6
-35°	398.4	503.0	615.5	741.4	875.9	1021.7	1161.8	1294.8	1399.5	1471.0	1647.5
-37.5°	380.6	475.0	583.0	704.3	833.7	958.5	1092.4	1229.4	1349.4	1448.4	1510.9
-40°	360.2	444.8	549.5	664.1	779.5	894.6	1019.7	1150.6	1282.8	1391.4	1486.7
-42.5°	337.4	419.3	513.1	617.4	723.4	832.2	943.6	1067.5	1192.1	1316.0	1416.4
-45°	312.1	390.8	474.2	568.0	664.1	766.7	872.3	979.4	1097.3	1214.2	1324.1
-47.5°	283.6	359.2	438.7	515.3	604.5	698.7	797.3	898.3	999.2	1106.5	1212.7
-50°	253.8	324.1	397.4	467.5	543.8	629.5	720.0	814.1	909.3	999.3	1092.7
-52.5°	226.3	285.8	352.9	420.1	487.1	560.0	641.7	726.7	814.8	902.4	981.4
-55°	196.6	250.0	305.8	369.2	433.3	496.4	562.7	639.6	714.4	795.0	872.6
-57.5°	174.4	213.7	262.5	315.3	375.2	436.2	495.0	552.9	618.1	685.5	754.0
-60°	156.6	184.2	221.6	266.5	313.8	370.0	427.8	481.2	530.5	580.7	642.7
-62.5°	140.2	162.9	188.9	220.2	261.2	303.0	352.7	403.7	451.5	497.5	543.6
-65°	132.3	144.1	163.8	187.1	210.6	246.3	284.3	323.3	367.2	409.4	452.3
-67.5°	123.9	135.1	146.0	158.7	179.9	200.7	221.3	255.6	290.0	321.0	352.2
-70°	117.4	126.3	136.0	145.5	155.1	167.3	186.1	205.3	223.9	244.4	270.6
-72.5°	111.1	119.0	126.9	134.6	143.2	152.0	161.0	170.4	184.0	199.9	214.2
-75°	104.6	111.5	118.4	125.3	132.5	139.8	147.4	155.6	164.1	172.6	180.2
-77.5°	98.0	104.4	110.4	116.2	122.3	128.9	135.6	142.3	149.3	156.3	162.3
-80°	91.3	97.3	102.6	107.7	112.9	118.3	124.0	129.8	135.7	141.6	146.8
-82.5°	84.4	89.6	94.2	98.8	103.4	107.8	112.8	117.9	123.0	128.0	132.4
-85°	77.7	81.7	85.7	89.7	93.6	97.6	102.0	106.5	110.7	115.0	118.7
-87.5°	72.8	76.5	79.8	83.1	86.3	89.5	93.3	97.1	100.5	103.8	106.9
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.9	0.6	0.6



REPORT NUMBER: P731437 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-3S-VHE

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	101.8	103.7	105.5	107.1	108.7	110.9	113.0	116.2	119.3	123.1	126.8
87.5°	1.1	1.1	1.1	0.9	0.6	0.6	0.6	0.6	0.6	0.9	1.2
85°	1.2	1.2	1.2	1.4	1.6	1.7	1.7	1.8	1.8	1.9	1.9
82.5°	1.5	1.6	1.6	1.8	1.9	1.9	1.9	1.9	1.9	2.2	2.5
80°	2.1	2.1	2.2	2.2	2.3	2.1	1.9	1.9	1.9	2.2	2.5
77.5°	2.6	2.6	2.5	2.4	2.2	2.0	1.9	1.9	1.9	1.9	1.9
75°	3.0	3.1	3.3	3.5	3.8	3.9	3.6	3.7	3.9	3.8	3.6
72.5°	6.9	7.0	7.0	7.8	8.6	8.9	9.2	9.8	10.5	11.4	12.5
70°	13.4	14.8	15.3	15.4	14.8	14.4	14.1	14.0	14.3	14.9	15.7
67.5°	19.3	19.9	19.7	19.4	18.3	16.9	15.3	14.4	14.8	15.5	16.5
65°	21.9	20.2	18.9	18.4	17.4	15.7	13.3	11.6	11.3	11.0	11.0
62.5°	19.7	16.6	15.1	14.3	12.8	11.3	9.1	7.4	6.8	6.4	6.2
60°	17.2	13.3	11.0	9.9	8.2	6.3	5.2	4.0	3.6	3.4	3.4
57.5°	14.9	11.0	8.3	7.8	6.3	5.0	4.0	3.0	2.7	2.5	2.6
55°	15.3	13.4	11.2	10.0	8.3	7.6	6.7	6.1	5.5	5.6	6.0
52.5°	21.6	23.3	20.5	19.7	24.6	24.7	20.4	27.0	31.1	34.1	35.0
50°	55.9	55.5	73.8	70.8	87.6	101.4	102.0	110.3	126.3	137.2	143.1
47.5°	148.5	165.2	186.5	208.9	226.3	248.1	270.2	286.6	290.7	291.1	294.0
45°	279.6	303.4	335.4	358.9	391.9	412.3	429.3	444.6	480.0	512.5	550.5
42.5°	390.4	416.4	449.6	497.3	532.1	625.1	767.4	802.3	807.3	836.3	878.4
40°	477.9	512.0	585.7	690.3	913.1	1112.9	1149.0	1179.0	1192.2	1176.1	1204.7
37.5°	583.8	663.7	829.8	1115.7	1221.3	1275.7	1314.0	1337.0	1364.9	1390.7	1404.7
35°	759.6	982.4	1127.9	1280.6	1349.7	1377.3	1405.4	1433.7	1455.6	1484.2	1507.1
32.5°	1120.6	1368.6	1383.2	1421.0	1456.9	1492.8	1519.1	1546.1	1569.5	1606.5	1684.1
30°	1484.3	1538.4	1551.6	1555.0	1587.9	1630.8	1653.6	1708.1	1781.6	1865.9	2045.3
27.5°	1677.9	1715.1	1722.8	1726.5	1741.8	1792.6	1886.9	1961.2	2137.7	2351.8	2812.9
25°	1913.6	1940.0	1968.1	1966.9	1990.2	2080.2	2264.4	2421.3	3017.5	3575.3	4777.1
22.5°	2138.5	2218.5	2258.3	2311.8	2390.7	2554.5	2877.8	3785.8	5304.0	7241.5	9653.5
20°	2294.8	2402.4	2509.7	2658.7	2849.4	3189.5	4199.4	6916.6	10161.5	14870.0	18819.2
17.5°	2452.4	2574.0	2763.7	2993.6	3314.0	4455.8	7416.5	12030.1	18693.9	27053.1	34387.4
15°	2657.9	2802.3	3056.3	3384.6	4279.7	6717.0	11655.8	20050.9	30181.1	41931.7	54258.1
12.5°	2798.0	2996.8	3298.8	3722.7	5192.0	9756.8	17708.9	29217.5	43160.1	57966.2	77614.6
10°	2901.4	3139.2	3549.4	4428.3	7092.5	13112.1	22668.0	37030.6	56145.4	78711.1	101175.0
7.5°	2988.3	3308.5	3823.4	4931.0	8732.3	16321.4	28502.3	45959.4	68575.5	95766.0	121889.6
5°	3066.4	3490.9	4087.1	5472.9	10201.5	18645.1	32382.2	52627.6	78817.3	108513.7	137356.1
2.5°	3169.6	3661.6	4258.2	5622.0	10789.7	19932.6	35456.5	58012.0	86129.7	117368.4	148749.0
0°	3313.0	3772.7	4362.8	5717.4	10606.7	20739.4	37340.7	60714.3	89334.3	121087.5	154000.5
-2.5°	3425.8	3836.7	4423.8	5640.5	10517.2	20359.9	36490.4	59139.1	86196.9	116879.8	149710.8
-5°	3498.7	3882.5	4450.4	5669.3	10291.6	18909.9	33978.8	55011.9	79808.1	107505.2	137864.1
-7.5°	3541.3	3899.3	4422.7	5488.5	9266.5	16934.4	29508.3	47404.6	69648.8	95278.2	120367.8
-10°	3566.8	3888.4	4364.8	5232.8	7794.5	13762.2	23296.2	38463.7	57737.1	78388.9	98911.2
-12.5°	3576.4	3865.5	4283.2	4866.5	6249.4	10774.1	18544.6	29309.1	43615.8	60556.6	78640.2
-15°	3557.6	3832.1	4204.2	4709.3	5629.3	8076.8	12940.1	20261.2	30925.0	43859.3	56963.5
-17.5°	3487.8	3797.7	4087.4	4475.2	5016.7	6170.9	9130.8	13829.9	20333.0	28882.4	36442.8
-20°	3395.2	3732.7	3980.7	4323.4	4748.6	5276.8	6226.1	9094.0	12740.4	17690.0	22624.5



REPORT NUMBER: P731437 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-3S-VHE

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3312.8	3621.5	3933.4	4168.7	4501.7	4848.9	5277.5	6097.9	7930.2	10401.3	13529.4
-25°	3236.7	3519.3	3839.4	4093.8	4281.7	4527.1	4795.7	5083.1	5705.4	6289.0	7798.1
-27.5°	3129.7	3422.4	3699.9	3971.5	4152.5	4263.9	4446.9	4625.5	4886.2	5118.0	5561.2
-30°	3005.1	3291.5	3555.6	3802.3	3987.8	4104.9	4195.7	4318.6	4456.5	4596.8	4787.2
-32.5°	2561.2	3137.7	3383.6	3606.3	3797.7	3935.4	4031.5	4112.2	4191.8	4281.6	4382.0
-35°	2075.0	2644.4	3199.3	3372.9	3553.7	3736.1	3878.5	3954.7	4024.0	4086.9	4148.3
-37.5°	1687.1	2088.8	2586.8	3060.0	3279.7	3463.9	3635.1	3768.1	3865.2	3924.3	3979.5
-40°	1535.2	1637.0	2020.0	2409.8	2784.5	3124.8	3298.9	3495.5	3655.3	3741.9	3802.0
-42.5°	1499.0	1545.7	1581.4	1828.3	2126.5	2413.4	2730.9	3046.0	3293.4	3458.2	3580.8
-45°	1419.4	1486.7	1540.0	1562.0	1575.5	1784.7	2030.6	2271.2	2549.0	2835.9	3096.3
-47.5°	1306.8	1394.3	1454.5	1501.6	1529.8	1538.7	1556.0	1609.9	1811.6	2023.6	2225.5
-50°	1181.1	1261.3	1333.5	1399.0	1438.1	1469.7	1500.0	1529.0	1553.6	1584.6	1612.6
-52.5°	1054.5	1128.0	1193.0	1250.5	1302.2	1352.1	1400.2	1436.0	1471.1	1508.7	1539.3
-55°	941.9	1001.5	1055.9	1106.4	1153.0	1195.2	1238.6	1285.0	1332.9	1379.8	1416.2
-57.5°	821.4	878.4	929.9	972.7	1010.2	1041.7	1081.5	1125.0	1170.1	1211.9	1243.6
-60°	699.9	750.3	797.4	838.9	874.5	903.8	940.6	977.4	1017.6	1053.4	1081.6
-62.5°	584.5	626.9	667.0	703.2	735.6	765.3	798.0	830.9	868.7	902.0	929.0
-65°	488.6	521.5	548.9	574.6	594.6	620.3	652.0	682.2	715.2	744.0	768.0
-67.5°	384.7	415.0	440.1	462.6	480.2	498.6	522.0	546.1	571.7	594.6	614.7
-70°	293.9	314.3	330.6	347.4	365.5	383.0	401.7	422.4	443.8	462.7	479.3
-72.5°	226.7	236.9	246.3	260.0	272.1	284.3	296.2	310.9	326.8	341.2	354.2
-75°	187.3	193.5	200.8	207.3	212.9	219.4	226.0	235.6	246.0	255.9	265.2
-77.5°	168.0	172.5	176.2	179.2	181.8	185.8	190.0	197.2	204.8	213.2	221.5
-80°	151.7	155.2	158.3	160.9	163.3	166.6	169.9	176.2	182.8	189.8	196.8
-82.5°	136.6	139.3	141.8	144.3	146.6	149.4	152.1	157.6	163.3	169.2	175.0
-85°	122.4	124.7	126.9	128.8	130.8	133.2	135.5	140.2	144.9	149.9	154.9
-87.5°	110.0	112.1	114.1	116.0	117.7	119.8	121.8	125.9	130.1	134.3	138.4
-90°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6



REPORT NUMBER: P731437 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-3S-VHE

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	127.1	127.4	127.7	128.0	127.7	127.4	127.1	126.8	123.1	119.3	116.2
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.9	0.6	0.6
85°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8
82.5°	2.2	1.9	2.2	2.5	2.2	1.9	2.2	2.5	2.2	1.9	1.9
80°	2.2	1.9	2.2	2.5	2.2	1.9	2.2	2.5	2.2	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°	3.1	2.5	2.2	1.9	2.2	2.5	3.1	3.6	3.8	3.9	3.7
72.5°	12.8	12.8	13.0	13.1	13.0	12.8	12.8	12.5	11.4	10.5	9.8
70°	16.3	16.7	16.9	16.9	16.9	16.7	16.3	15.7	14.9	14.3	14.0
67.5°	16.6	16.3	15.9	15.6	15.9	16.3	16.6	16.5	15.5	14.8	14.4
65°	10.4	9.7	8.6	7.5	8.6	9.7	10.4	11.0	11.0	11.3	11.6
62.5°	6.0	5.8	5.6	5.6	5.6	5.8	6.0	6.2	6.4	6.8	7.4
60°	3.5	3.7	3.7	3.7	3.7	3.7	3.5	3.4	3.4	3.6	4.0
57.5°	2.7	3.0	3.3	3.7	3.3	3.0	2.7	2.6	2.5	2.7	3.0
55°	6.4	7.1	7.4	7.5	7.4	7.1	6.4	6.0	5.6	5.5	6.1
52.5°	33.7	32.0	30.6	29.4	30.6	32.0	33.7	35.0	34.1	31.1	27.0
50°	145.8	149.6	151.3	151.1	151.3	149.6	145.8	143.1	137.2	126.3	110.3
47.5°	300.2	302.4	300.7	296.0	300.7	302.4	300.2	294.0	291.1	290.7	286.6
45°	596.9	571.0	525.1	484.6	525.1	571.0	596.9	550.5	512.5	480.0	444.6
42.5°	934.4	965.3	988.5	999.2	988.5	965.3	934.4	878.4	836.3	807.3	802.3
40°	1172.6	1139.6	1132.9	1137.9	1132.9	1139.6	1172.6	1204.7	1176.1	1192.2	1179.0
37.5°	1408.3	1438.3	1460.6	1424.5	1460.6	1438.3	1408.3	1404.7	1390.7	1364.9	1337.0
35°	1560.2	1667.0	1792.5	1830.4	1792.5	1667.0	1560.2	1507.1	1484.2	1455.6	1433.7
32.5°	1814.1	1927.0	1975.8	1987.8	1975.8	1927.0	1814.1	1684.1	1606.5	1569.5	1546.1
30°	2218.2	2330.9	2351.1	2367.5	2351.1	2330.9	2218.2	2045.3	1865.9	1781.6	1708.1
27.5°	3118.9	3371.0	3430.9	3472.9	3430.9	3371.0	3118.9	2812.9	2351.8	2137.7	1961.2
25°	5725.9	6381.6	6810.0	6768.4	6810.0	6381.6	5725.9	4777.1	3575.3	3017.5	2421.3
22.5°	12070.2	13357.4	14044.3	14032.1	14044.3	13357.4	12070.2	9653.5	7241.5	5304.0	3785.8
20°	24445.7	28254.6	30316.3	30081.4	30316.3	28254.6	24445.7	18819.2	14870.0	10161.5	6916.6
17.5°	42625.4	49982.1	55121.7	55332.2	55121.7	49982.1	42625.4	34387.4	27053.1	18693.9	12030.1
15°	65911.6	76827.1	84532.8	84531.8	84532.8	76827.1	65911.6	54258.1	41931.7	30181.1	20050.9
12.5°	94252.2	107299.8	116116.3	117438.5	116116.3	107299.8	94252.2	77614.6	57966.2	43160.1	29217.5
10°	121451.6	136230.7	149559.4	153229.2	149559.4	136230.7	121451.6	101175.0	78711.1	56145.4	37030.6
7.5°	144473.8	167722.5	179863.6	183687.5	179863.6	167722.5	144473.8	121889.6	95766.0	68575.5	45959.4
5°	167071.6	187195.3	197388.7	200339.7	197388.7	187195.3	167071.6	137356.1	108513.7	78817.3	52627.6
2.5°	178958.7	197430.2	211757.3	220066.2	211757.3	197430.2	178958.7	148749.0	117368.4	86129.7	58012.0
0°	183431.2	200980.5	220194.5	233281.4	220194.5	200980.5	183431.2	154000.5	121087.5	89334.3	60714.3
-2.5°	178957.7	195938.9	210098.3	216992.0	210098.3	195938.9	178957.7	149710.8	116879.8	86196.9	59139.1
-5°	165397.3	185370.9	195680.2	198290.1	195680.2	185370.9	165397.3	137864.1	107505.2	79808.1	55011.9
-7.5°	143739.4	162949.0	175588.8	178435.7	175588.8	162949.0	143739.4	120367.8	95278.2	69648.8	47404.6
-10°	119627.8	136036.1	144563.3	146671.8	144563.3	136036.1	119627.8	98911.2	78388.9	57737.1	38463.7
-12.5°	92953.5	104986.6	113691.0	114872.4	113691.0	104986.6	92953.5	78640.2	60556.6	43615.8	29309.1
-15°	69189.5	77147.6	84165.1	84971.5	84165.1	77147.6	69189.5	56963.5	43859.3	30925.0	20261.2
-17.5°	46353.4	52941.9	56868.5	58001.4	56868.5	52941.9	46353.4	36442.8	28882.4	20333.0	13829.9
-20°	27773.3	32487.9	35104.7	35203.0	35104.7	32487.9	27773.3	22624.5	17690.0	12740.4	9094.0



REPORT NUMBER: P731437 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-3S-VHE

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	16112.7	18736.0	20120.5	20093.6	20120.5	18736.0	16112.7	13529.4	10401.3	7930.2	6097.9
-25°	9292.5	10441.1	10899.5	10915.8	10899.5	10441.1	9292.5	7798.1	6289.0	5705.4	5083.1
-27.5°	5916.9	6180.6	6286.2	6303.2	6286.2	6180.6	5916.9	5561.2	5118.0	4886.2	4625.5
-30°	4960.9	5115.1	5186.0	5205.9	5186.0	5115.1	4960.9	4787.2	4596.8	4456.5	4318.6
-32.5°	4476.2	4561.2	4618.5	4610.1	4618.5	4561.2	4476.2	4382.0	4281.6	4191.8	4112.2
-35°	4208.3	4260.9	4293.1	4308.5	4293.1	4260.9	4208.3	4148.3	4086.9	4024.0	3954.7
-37.5°	4034.5	4081.5	4112.0	4121.1	4112.0	4081.5	4034.5	3979.5	3924.3	3865.2	3768.1
-40°	3853.7	3892.9	3917.9	3926.9	3917.9	3892.9	3853.7	3802.0	3741.9	3655.3	3495.5
-42.5°	3658.6	3700.7	3720.7	3720.8	3720.7	3700.7	3658.6	3580.8	3458.2	3293.4	3046.0
-45°	3310.0	3439.4	3504.2	3507.2	3504.2	3439.4	3310.0	3096.3	2835.9	2549.0	2271.2
-47.5°	2409.2	2537.1	2639.9	2716.0	2639.9	2537.1	2409.2	2225.5	2023.6	1811.6	1609.9
-50°	1637.1	1645.5	1646.0	1638.7	1646.0	1645.5	1637.1	1612.6	1584.6	1553.6	1529.0
-52.5°	1563.2	1571.9	1578.3	1581.9	1578.3	1571.9	1563.2	1539.3	1508.7	1471.1	1436.0
-55°	1443.2	1454.2	1458.8	1457.0	1458.8	1454.2	1443.2	1416.2	1379.8	1332.9	1285.0
-57.5°	1264.9	1272.2	1275.6	1274.6	1275.6	1272.2	1264.9	1243.6	1211.9	1170.1	1125.0
-60°	1098.9	1104.3	1107.5	1107.3	1107.5	1104.3	1098.9	1081.6	1053.4	1017.6	977.4
-62.5°	944.1	949.0	952.5	953.0	952.5	949.0	944.1	929.0	902.0	868.7	830.9
-65°	780.1	783.8	786.1	785.6	786.1	783.8	780.1	768.0	744.0	715.2	682.2
-67.5°	623.6	626.2	628.4	628.3	628.4	626.2	623.6	614.7	594.6	571.7	546.1
-70°	484.6	484.9	485.9	485.2	485.9	484.9	484.6	479.3	462.7	443.8	422.4
-72.5°	357.2	356.9	356.7	355.3	356.7	356.9	357.2	354.2	341.2	326.8	310.9
-75°	266.1	265.1	264.3	262.9	264.3	265.1	266.1	265.2	255.9	246.0	235.6
-77.5°	222.5	222.5	221.0	219.2	221.0	222.5	222.5	221.5	213.2	204.8	197.2
-80°	197.2	197.0	196.3	195.5	196.3	197.0	197.2	196.8	189.8	182.8	176.2
-82.5°	175.6	175.9	175.7	175.5	175.7	175.9	175.6	175.0	169.2	163.3	157.6
-85°	155.5	156.0	155.8	155.5	155.8	156.0	155.5	154.9	149.9	144.9	140.2
-87.5°	138.8	139.3	139.3	139.3	139.3	139.3	138.8	138.4	134.3	130.1	125.9
-90°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6



REPORT NUMBER: P731437 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-3S-VHE

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	113.0	110.9	108.7	107.1	105.5	103.7	101.8	99.0	96.2	93.4	90.6
87.5°	0.6	0.6	0.6	0.9	1.1	1.1	1.1	1.1	1.1	1.1	1.2
85°	1.7	1.7	1.6	1.4	1.2	1.2	1.2	1.4	1.6	1.5	1.5
82.5°	1.9	1.9	1.9	1.8	1.6	1.6	1.5	1.7	1.9	1.9	1.9
80°	1.9	2.1	2.3	2.2	2.2	2.1	2.1	2.0	1.9	1.9	1.9
77.5°	1.9	2.0	2.2	2.4	2.5	2.6	2.6	2.5	2.5	2.6	2.6
75°	3.6	3.9	3.8	3.5	3.3	3.1	3.0	2.9	2.9	3.0	3.1
72.5°	9.2	8.9	8.6	7.8	7.0	7.0	6.9	6.2	5.2	3.9	3.1
70°	14.1	14.4	14.8	15.4	15.3	14.8	13.4	11.8	10.2	8.4	6.5
67.5°	15.3	16.9	18.3	19.4	19.7	19.9	19.3	18.4	18.1	16.6	12.0
65°	13.3	15.7	17.4	18.4	18.9	20.2	21.9	22.1	24.0	24.3	19.8
62.5°	9.1	11.3	12.8	14.3	15.1	16.6	19.7	22.9	27.4	29.3	25.4
60°	5.2	6.3	8.2	9.9	11.0	13.3	17.2	22.2	28.3	29.0	28.0
57.5°	4.0	5.0	6.3	7.8	8.3	11.0	14.9	20.9	27.0	28.1	26.4
55°	6.7	7.6	8.3	10.0	11.2	13.4	15.3	20.2	26.2	28.7	28.8
52.5°	20.4	24.7	24.6	19.7	20.5	23.3	21.6	25.5	29.5	32.8	34.1
50°	102.0	101.4	87.6	70.8	73.8	55.5	55.9	49.3	43.8	45.4	43.7
47.5°	270.2	248.1	226.3	208.9	186.5	165.2	148.5	117.2	107.8	76.4	75.7
45°	429.3	412.3	391.9	358.9	335.4	303.4	279.6	248.4	211.2	179.7	128.1
42.5°	767.4	625.1	532.1	497.3	449.6	416.4	390.4	363.5	335.8	296.3	248.3
40°	1149.0	1112.9	913.1	690.3	585.7	512.0	477.9	454.4	440.1	409.8	363.9
37.5°	1314.0	1275.7	1221.3	1115.7	829.8	663.7	583.8	538.1	534.6	506.5	465.9
35°	1405.4	1377.3	1349.7	1280.6	1127.9	982.4	759.6	653.1	601.5	589.4	556.1
32.5°	1519.1	1492.8	1456.9	1421.0	1383.2	1368.6	1120.6	859.9	685.2	651.0	621.6
30°	1653.6	1630.8	1587.9	1555.0	1551.6	1538.4	1484.3	1166.5	884.0	704.5	684.2
27.5°	1886.9	1792.6	1741.8	1726.5	1722.8	1715.1	1677.9	1528.2	1119.7	854.1	737.7
25°	2264.4	2080.2	1990.2	1966.9	1968.1	1940.0	1913.6	1789.9	1485.4	1035.1	793.1
22.5°	2877.8	2554.5	2390.7	2311.8	2258.3	2218.5	2138.5	2023.0	1864.9	1294.6	947.7
20°	4199.4	3189.5	2849.4	2658.7	2509.7	2402.4	2294.8	2188.6	2010.7	1609.7	1110.8
17.5°	7416.5	4455.8	3314.0	2993.6	2763.7	2574.0	2452.4	2316.6	2141.6	1859.3	1248.4
15°	11655.8	6717.0	4279.7	3384.6	3056.3	2802.3	2657.9	2484.7	2299.8	2014.3	1450.3
12.5°	17708.9	9756.8	5192.0	3722.7	3298.8	2996.8	2798.0	2655.6	2455.7	2176.0	1694.9
10°	22668.0	13112.1	7092.5	4428.3	3549.4	3139.2	2901.4	2747.9	2566.7	2324.0	1923.4
7.5°	28502.3	16321.4	8732.3	4931.0	3823.4	3308.5	2988.3	2813.0	2640.0	2382.1	2048.5
5°	32382.2	18645.1	10201.5	5472.9	4087.1	3490.9	3066.4	2859.8	2676.7	2400.5	2132.6
2.5°	35456.5	19932.6	10789.7	5622.0	4258.2	3661.6	3169.6	2918.0	2702.7	2422.8	2196.8
0°	37340.7	20739.4	10606.7	5717.4	4362.8	3772.7	3313.0	2982.7	2714.1	2436.8	2231.4
-2.5°	36490.4	20359.9	10517.2	5640.5	4423.8	3836.7	3425.8	3127.7	2777.1	2457.3	2246.3
-5°	33978.8	18909.9	10291.6	5669.3	4450.4	3882.5	3498.7	3219.8	2835.3	2481.8	2232.4
-7.5°	29508.3	16934.4	9266.5	5488.5	4422.7	3899.3	3541.3	3266.2	2908.3	2558.3	2216.5
-10°	23296.2	13762.2	7794.5	5232.8	4364.8	3888.4	3566.8	3270.0	2936.2	2613.6	2162.7
-12.5°	18544.6	10774.1	6249.4	4866.5	4283.2	3865.5	3576.4	3246.4	2946.6	2664.5	2098.1
-15°	12940.1	8076.8	5629.3	4709.3	4204.2	3832.1	3557.6	3201.9	2935.6	2687.2	1978.2
-17.5°	9130.8	6170.9	5016.7	4475.2	4087.4	3797.7	3487.8	3168.0	2901.7	2565.0	1793.5
-20°	6226.1	5276.8	4748.6	4323.4	3980.7	3732.7	3395.2	3117.6	2835.2	2309.1	1658.4





REPORT NUMBER: P731437 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-3S-VHE

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	5277.5	4848.9	4501.7	4168.7	3933.4	3621.5	3312.8	3041.8	2737.7	2019.1	1509.4
-25°	4795.7	4527.1	4281.7	4093.8	3839.4	3519.3	3236.7	2921.3	2407.1	1779.3	1372.1
-27.5°	4446.9	4263.9	4152.5	3971.5	3699.9	3422.4	3129.7	2738.2	2029.1	1584.4	1376.0
-30°	4195.7	4104.9	3987.8	3802.3	3555.6	3291.5	3005.1	2341.3	1771.1	1431.9	1371.0
-32.5°	4031.5	3935.4	3797.7	3606.3	3383.6	3137.7	2561.2	1967.6	1533.3	1422.3	1338.8
-35°	3878.5	3736.1	3553.7	3372.9	3199.3	2644.4	2075.0	1647.5	1471.0	1399.5	1294.8
-37.5°	3635.1	3463.9	3279.7	3060.0	2586.8	2088.8	1687.1	1510.9	1448.4	1349.4	1229.4
-40°	3298.9	3124.8	2784.5	2409.8	2020.0	1637.0	1535.2	1486.7	1391.4	1282.8	1150.6
-42.5°	2730.9	2413.4	2126.5	1828.3	1581.4	1545.7	1499.0	1416.4	1316.0	1192.1	1067.5
-45°	2030.6	1784.7	1575.5	1562.0	1540.0	1486.7	1419.4	1324.1	1214.2	1097.3	979.4
-47.5°	1556.0	1538.7	1529.8	1501.6	1454.5	1394.3	1306.8	1212.7	1106.5	999.2	898.3
-50°	1500.0	1469.7	1438.1	1399.0	1333.5	1261.3	1181.1	1092.7	999.3	909.3	814.1
-52.5°	1400.2	1352.1	1302.2	1250.5	1193.0	1128.0	1054.5	981.4	902.4	814.8	726.7
-55°	1238.6	1195.2	1153.0	1106.4	1055.9	1001.5	941.9	872.6	795.0	714.4	639.6
-57.5°	1081.5	1041.7	1010.2	972.7	929.9	878.4	821.4	754.0	685.5	618.1	552.9
-60°	940.6	903.8	874.5	838.9	797.4	750.3	699.9	642.7	580.7	530.5	481.2
-62.5°	798.0	765.3	735.6	703.2	667.0	626.9	584.5	543.6	497.5	451.5	403.7
-65°	652.0	620.3	594.6	574.6	548.9	521.5	488.6	452.3	409.4	367.2	323.3
-67.5°	522.0	498.6	480.2	462.6	440.1	415.0	384.7	352.2	321.0	290.0	255.6
-70°	401.7	383.0	365.5	347.4	330.6	314.3	293.9	270.6	244.4	223.9	205.3
-72.5°	296.2	284.3	272.1	260.0	246.3	236.9	226.7	214.2	199.9	184.0	170.4
-75°	226.0	219.4	212.9	207.3	200.8	193.5	187.3	180.2	172.6	164.1	155.6
-77.5°	190.0	185.8	181.8	179.2	176.2	172.5	168.0	162.3	156.3	149.3	142.3
-80°	169.9	166.6	163.3	160.9	158.3	155.2	151.7	146.8	141.6	135.7	129.8
-82.5°	152.1	149.4	146.6	144.3	141.8	139.3	136.6	132.4	128.0	123.0	117.9
-85°	135.5	133.2	130.8	128.8	126.9	124.7	122.4	118.7	115.0	110.7	106.5
-87.5°	121.8	119.8	117.7	116.0	114.1	112.1	110.0	106.9	103.8	100.5	97.1
-90°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.9	1.2





REPORT NUMBER: P731437 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-3S-VHE

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	86.9	83.1	80.3	77.4	74.3	71.2	67.8	64.3	60.0	55.6	50.3
87.5°	1.2	1.2	1.4	1.6	1.6	1.5	1.5	1.5	1.6	1.6	1.8
85°	1.4	1.4	1.6	1.9	1.9	1.9	1.8	1.8	2.0	2.1	2.1
82.5°	1.9	1.9	1.8	1.9	2.1	2.2	2.1	2.1	2.3	2.5	2.4
80°	2.1	2.2	2.2	2.1	2.3	2.5	2.4	2.4	2.6	2.7	2.7
77.5°	2.6	2.6	2.5	2.4	2.4	2.5	2.6	2.6	2.8	3.0	3.0
75°	3.1	2.9	2.6	2.6	2.7	2.6	2.8	3.0	3.2	3.2	3.3
72.5°	3.1	3.1	2.8	2.8	3.1	3.3	3.3	3.3	3.6	3.7	3.6
70°	4.7	3.6	3.4	3.5	3.8	4.0	4.1	4.2	4.1	4.3	4.3
67.5°	7.6	6.2	5.2	4.5	4.5	4.8	5.0	5.2	5.2	4.9	5.0
65°	14.5	10.5	7.4	6.5	5.8	5.7	5.9	6.4	6.4	6.2	5.7
62.5°	20.8	16.1	12.4	9.3	7.8	7.8	6.9	7.7	7.7	7.6	6.9
60°	26.5	21.6	17.9	14.7	11.9	10.4	9.9	9.1	9.3	9.1	8.3
57.5°	26.7	26.3	24.6	20.8	18.2	15.2	13.6	12.4	11.2	11.1	9.9
55°	27.1	27.5	30.8	28.6	25.8	21.9	19.1	16.8	14.0	13.3	11.5
52.5°	32.4	33.4	36.0	37.7	35.7	30.2	27.2	21.5	19.4	15.8	13.8
50°	41.6	44.9	45.3	48.4	46.8	43.2	36.1	30.3	25.2	19.3	16.3
47.5°	65.0	67.9	62.2	63.7	60.8	58.1	49.6	40.8	31.4	25.1	18.9
45°	123.5	106.3	96.3	88.0	80.4	77.3	65.9	52.4	42.2	31.3	21.5
42.5°	200.2	174.3	154.2	117.1	112.8	99.9	85.6	70.2	53.7	37.7	26.0
40°	308.3	258.9	224.7	185.2	152.7	125.4	110.9	90.3	66.1	45.7	31.7
37.5°	410.2	347.0	303.5	255.5	202.9	167.2	138.7	111.8	80.7	57.0	37.6
35°	492.1	429.4	370.4	320.9	267.5	209.1	168.6	135.9	99.7	68.8	43.6
32.5°	566.3	499.7	432.8	377.0	319.1	249.9	203.5	159.8	118.7	81.0	49.9
30°	632.1	568.4	492.3	423.1	361.6	292.7	236.5	182.1	137.8	93.5	57.2
27.5°	703.9	639.6	552.6	473.2	399.0	329.8	262.8	202.9	156.9	106.3	66.7
25°	771.4	706.0	619.8	529.5	436.8	359.5	287.3	222.3	174.7	119.2	75.7
22.5°	816.6	761.9	681.5	589.0	478.4	388.4	311.3	243.3	186.8	131.0	84.2
20°	853.1	811.1	736.0	634.1	523.8	422.6	335.3	260.3	198.0	141.7	92.1
17.5°	905.2	850.8	774.6	671.9	565.3	457.0	358.5	276.3	208.4	151.3	99.4
15°	1033.0	885.6	812.2	707.4	597.4	486.4	381.0	291.4	217.7	159.7	106.0
12.5°	1165.7	919.4	848.6	738.2	621.0	511.6	402.6	305.5	226.1	168.3	111.8
10°	1290.2	948.8	882.5	766.4	641.6	532.7	423.0	320.9	238.6	177.1	117.1
7.5°	1395.5	975.6	914.4	791.8	660.2	551.8	443.6	340.1	251.2	185.2	121.7
5°	1484.3	1000.3	945.3	823.1	682.2	569.4	461.7	358.0	263.1	192.5	125.7
2.5°	1544.9	1022.6	973.1	852.4	701.4	584.0	477.2	374.1	273.9	198.9	129.1
0°	1585.0	1042.9	996.7	877.4	717.6	595.8	490.2	388.4	283.5	204.2	131.8
-2.5°	1597.6	1064.1	1016.1	898.7	743.4	611.5	499.8	395.1	290.0	210.2	136.3
-5°	1588.6	1083.6	1031.9	915.6	765.0	624.1	506.8	399.6	295.1	215.0	140.0
-7.5°	1561.5	1105.6	1045.0	928.3	781.7	633.2	511.3	402.0	298.8	218.5	142.9
-10°	1515.2	1127.6	1055.6	933.0	784.2	637.9	513.3	402.3	301.0	220.7	144.9
-12.5°	1457.0	1147.8	1062.1	932.2	781.1	638.9	515.1	401.4	301.7	221.5	146.0
-15°	1382.5	1173.3	1070.5	926.4	774.2	636.9	513.5	398.4	299.8	220.2	146.1
-17.5°	1284.9	1197.0	1075.9	918.9	764.7	632.0	508.4	392.5	296.3	216.6	144.8
-20°	1282.4	1207.3	1073.0	904.6	751.1	623.2	499.5	383.7	291.0	211.8	142.3



REPORT NUMBER: P731437 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-3S-VHE

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1300.3	1203.0	1056.1	885.6	734.9	610.7	487.8	372.2	284.1	205.6	139.0
-25°	1310.1	1195.0	1032.5	865.1	718.2	594.7	474.1	360.1	275.4	198.2	134.8
-27.5°	1294.1	1170.9	1001.7	837.8	699.1	575.8	458.3	351.5	267.5	189.5	129.7
-30°	1266.8	1125.5	964.0	806.1	674.5	553.9	439.6	341.0	258.9	182.5	123.8
-32.5°	1226.0	1076.7	921.5	775.7	646.5	528.8	418.5	328.6	248.8	176.5	119.9
-35°	1161.8	1021.7	875.9	741.4	615.5	503.0	398.4	314.1	237.3	168.9	116.6
-37.5°	1092.4	958.5	833.7	704.3	583.0	475.0	380.6	298.8	224.4	159.8	112.9
-40°	1019.7	894.6	779.5	664.1	549.5	444.8	360.2	281.5	211.8	149.1	108.3
-42.5°	943.6	832.2	723.4	617.4	513.1	419.3	337.4	261.5	196.8	141.1	103.0
-45°	872.3	766.7	664.1	568.0	474.2	390.8	312.1	239.5	180.1	134.1	99.0
-47.5°	797.3	698.7	604.5	515.3	438.7	359.2	283.6	219.1	162.2	126.1	97.5
-50°	720.0	629.5	543.8	467.5	397.4	324.1	253.8	197.0	151.4	116.7	95.5
-52.5°	641.7	560.0	487.1	420.1	352.9	285.8	226.3	174.1	139.8	111.5	93.3
-55°	562.7	496.4	433.3	369.2	305.8	250.0	196.6	159.6	127.5	108.1	90.7
-57.5°	495.0	436.2	375.2	315.3	262.5	213.7	174.4	144.4	121.3	104.4	89.0
-60°	427.8	370.0	313.8	266.5	221.6	184.2	156.6	131.7	116.7	100.6	86.8
-62.5°	352.7	303.0	261.2	220.2	188.9	162.9	140.2	125.5	111.6	97.6	84.4
-65°	284.3	246.3	210.6	187.1	163.8	144.1	132.3	118.8	107.0	94.3	81.7
-67.5°	221.3	200.7	179.9	158.7	146.0	135.1	123.9	113.2	102.6	90.8	79.1
-70°	186.1	167.3	155.1	145.5	136.0	126.3	117.4	108.0	97.9	87.3	76.2
-72.5°	161.0	152.0	143.2	134.6	126.9	119.0	111.1	102.7	93.3	83.7	73.2
-75°	147.4	139.8	132.5	125.3	118.4	111.5	104.6	97.0	88.5	79.9	69.9
-77.5°	135.6	128.9	122.3	116.2	110.4	104.4	98.0	91.1	83.5	75.7	66.5
-80°	124.0	118.3	112.9	107.7	102.6	97.3	91.3	85.2	78.3	71.3	62.9
-82.5°	112.8	107.8	103.4	98.8	94.2	89.6	84.4	79.2	73.0	66.8	59.5
-85°	102.0	97.6	93.6	89.7	85.7	81.7	77.7	73.7	68.4	63.1	56.5
-87.5°	93.3	89.5	86.3	83.1	79.8	76.5	72.8	69.0	64.2	59.4	53.5
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6



REPORT NUMBER: P731437 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-3S-VHE

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	45.0	37.8	30.6	22.1	13.7	7.8	1.9
87.5°	2.1	2.1	2.1	2.1	2.0	2.0	1.9
85°	2.2	2.3	2.3	2.2	2.1	2.2	1.9
82.5°	2.4	2.5	2.5	2.4	2.2	2.3	1.9
80°	2.6	2.7	2.7	2.5	2.3	2.5	1.9
77.5°	2.9	3.0	2.9	2.7	2.5	2.6	1.9
75°	3.2	3.3	3.2	2.8	2.6	2.8	1.9
72.5°	3.6	3.7	3.5	3.0	2.7	3.0	1.9
70°	4.0	4.0	3.9	3.2	2.9	3.1	1.9
67.5°	4.8	4.4	4.2	3.5	3.1	3.3	1.9
65°	5.6	5.0	4.6	3.9	3.3	3.4	1.9
62.5°	6.4	5.9	5.0	4.3	3.5	3.6	1.9
60°	7.4	6.7	5.5	4.7	3.7	3.7	1.9
57.5°	8.7	7.6	6.3	5.1	4.1	3.9	1.9
55°	10.2	8.6	7.2	5.5	4.5	4.1	1.9
52.5°	11.7	9.6	8.1	5.9	5.0	4.2	1.9
50°	13.2	11.0	9.0	6.3	5.5	4.4	1.9
47.5°	14.8	12.4	9.9	6.8	5.9	4.6	1.9
45°	17.2	13.9	10.9	7.6	6.4	4.8	1.9
42.5°	19.5	15.5	11.8	8.3	6.9	4.9	1.9
40°	22.1	17.1	12.9	9.2	7.4	5.1	1.9
37.5°	25.0	18.7	14.2	10.2	7.9	5.3	1.9
35°	27.9	20.8	15.4	11.3	8.4	5.5	1.9
32.5°	31.5	23.1	16.7	12.3	8.9	5.6	1.9
30°	36.7	25.4	18.0	13.3	9.4	5.8	1.9
27.5°	41.8	27.7	19.6	14.4	9.9	6.0	1.9
25°	46.8	30.0	21.2	15.4	10.5	6.1	1.9
22.5°	51.7	32.3	22.8	16.4	11.0	6.3	1.9
20°	56.5	34.7	24.4	17.4	11.5	6.5	1.9
17.5°	60.9	36.9	25.9	18.4	12.0	6.6	1.9
15°	64.9	39.1	27.4	19.4	12.5	6.8	1.9
12.5°	68.7	41.1	28.8	20.3	12.9	6.9	1.9
10°	72.1	43.0	30.2	21.2	13.4	7.0	1.9
7.5°	75.2	44.8	31.5	22.1	13.8	7.2	1.9
5°	78.0	46.4	32.7	22.9	14.2	7.3	1.9
2.5°	80.4	47.9	33.9	23.7	14.6	7.4	1.9
0°	82.4	49.3	35.0	24.4	15.0	7.5	1.9
-2.5°	85.1	51.4	36.6	25.5	15.7	7.8	1.9
-5°	87.3	53.3	38.0	26.5	16.3	8.1	1.9
-7.5°	89.2	55.1	39.4	27.5	16.9	8.4	1.9
-10°	90.6	56.7	40.7	28.4	17.5	8.7	1.9
-12.5°	91.5	58.2	41.8	29.2	18.0	8.9	1.9
-15°	92.1	59.4	42.9	29.9	18.5	9.2	1.9
-17.5°	92.1	60.5	43.9	30.6	19.0	9.4	1.9
-20°	91.8	61.4	44.7	31.2	19.4	9.6	1.9



REPORT NUMBER: P731437 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-3S-VHE

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	91.1	62.1	45.4	31.8	19.8	9.8	1.9
-25°	89.9	62.7	46.0	32.2	20.1	10.0	1.9
-27.5°	88.2	63.2	46.5	32.6	20.4	10.1	1.9
-30°	86.1	63.6	46.8	32.9	20.6	10.3	1.9
-32.5°	83.4	63.7	47.3	33.1	20.8	10.4	1.9
-35°	82.5	63.7	47.6	33.2	21.0	10.5	1.9
-37.5°	82.2	63.6	47.8	33.3	21.1	10.6	1.9
-40°	81.7	63.7	47.9	33.2	21.2	10.6	1.9
-42.5°	81.0	63.7	48.0	33.1	21.2	10.7	1.9
-45°	80.0	63.5	47.9	33.1	21.1	10.7	1.9
-47.5°	78.7	63.2	47.7	33.0	21.1	10.7	1.9
-50°	77.8	62.7	47.4	32.9	20.9	10.7	1.9
-52.5°	76.8	62.0	46.9	32.8	20.8	10.6	1.9
-55°	75.6	61.1	46.3	32.5	20.5	10.6	1.9
-57.5°	74.2	60.0	45.6	32.2	20.3	10.5	1.9
-60°	72.6	58.8	44.8	31.9	20.0	10.4	1.9
-62.5°	70.9	57.4	44.1	31.4	19.7	10.3	1.9
-65°	69.0	55.9	43.3	30.9	19.3	10.1	1.9
-67.5°	67.0	54.4	42.4	30.2	18.9	10.0	1.9
-70°	64.8	52.9	41.4	29.5	18.5	9.8	1.9
-72.5°	62.5	51.2	40.3	28.8	18.0	9.6	1.9
-75°	60.1	49.4	39.1	28.1	17.5	9.4	1.9
-77.5°	57.5	47.5	37.9	27.2	16.9	9.1	1.9
-80°	54.7	45.6	36.6	26.3	16.4	8.9	1.9
-82.5°	52.4	43.8	35.2	25.4	15.7	8.6	1.9
-85°	50.0	41.9	33.7	24.3	15.1	8.4	1.9
-87.5°	47.5	39.9	32.2	23.3	14.4	8.1	1.9
-90°	1.9	1.9	1.9	1.9	1.9	1.9	1.9

(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

