

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: P731337 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-80-2S-VHE**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731337 (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-40-80-2S-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 2S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

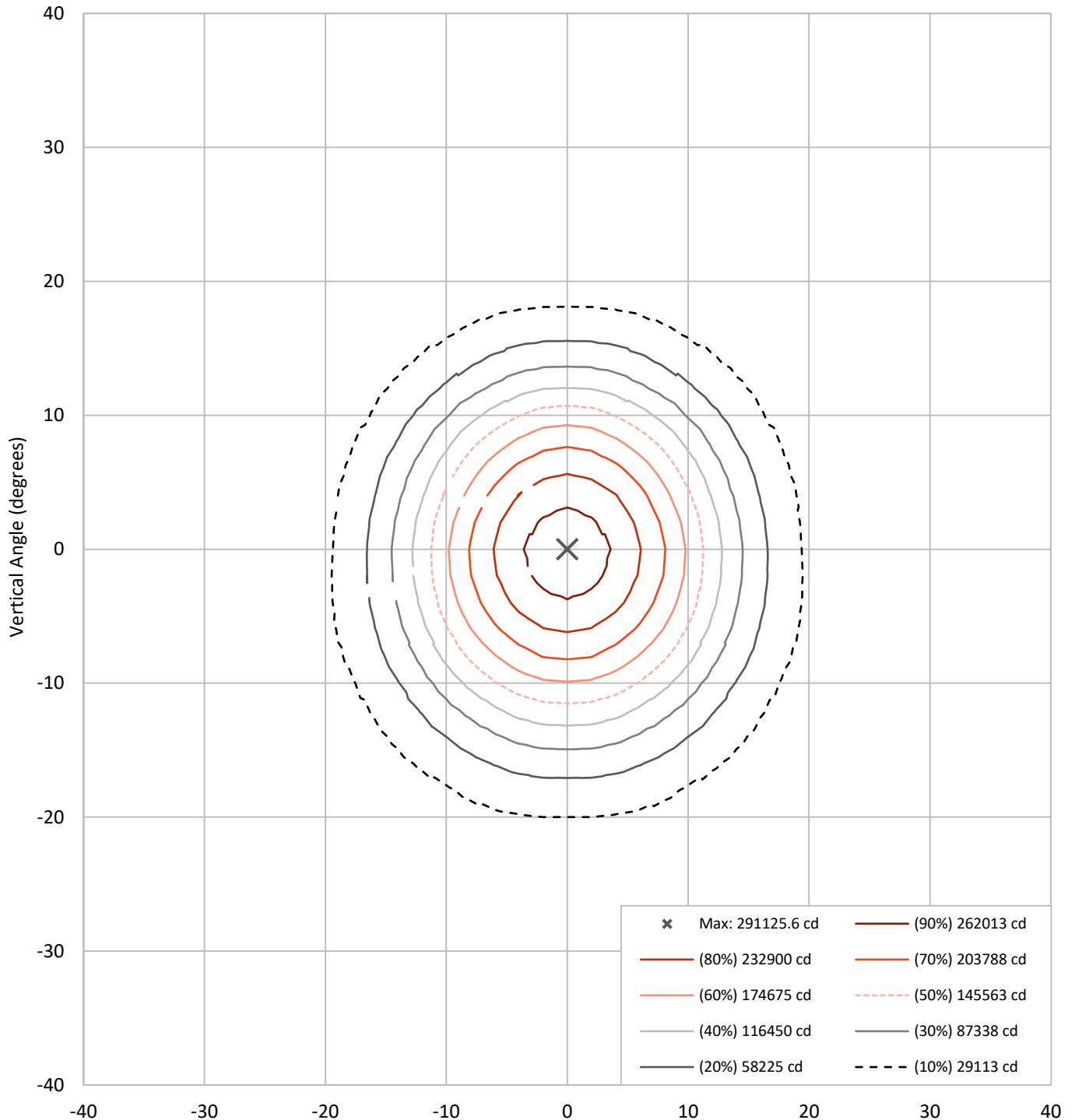
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	50884.4 lumens	Max Intensity:	291125.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	146.0 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:	23777.5 lumens	Field Lumens:	42359 lumens
Beam Efficiency:	46.7%	Field Efficiency:	83.2%

Input Watts (W): 348.5
Input Voltage (V): NR
Input Current (A_{in}): 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-40-80-2S-VHE

Iso-Candela Plot





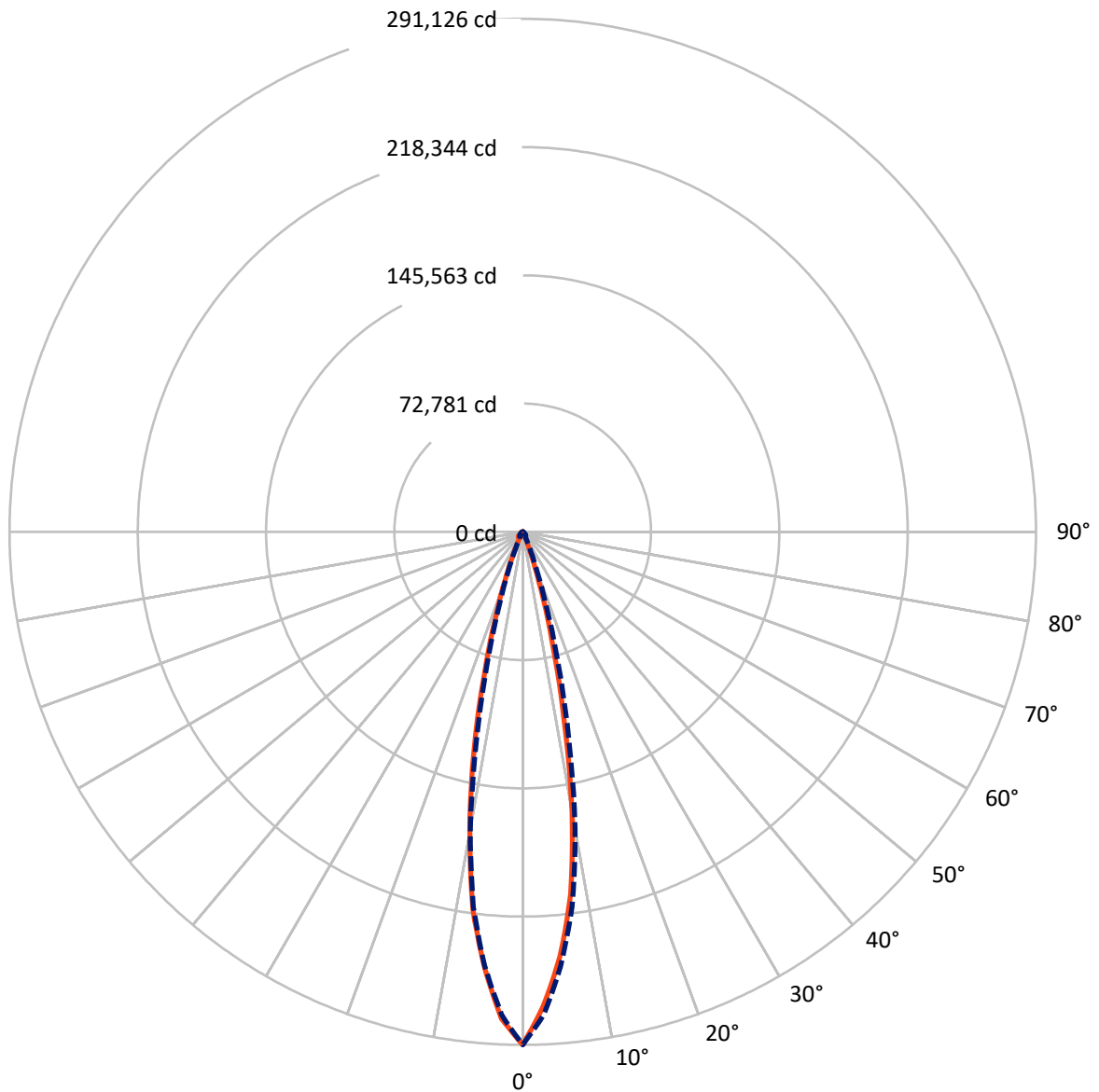
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Lumen Table

90	0.1	0.4	0.8	1.1	1.3	1.1	0.8	0.4	0.1									
80	0.1	0.4	0.8	1.1	1.3	1.1	0.8	0.4	0.1									
70	0.1	0.1	0.1	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.1	0.1	0.1		
60		0.2	0.4	0.6	0.5	0.4	0.5	0.6	0.6	0.5	0.4	0.5	0.6	0.4	0.2			
50	0.4	0.6	1.5	3.0	5.3	8.8	13.4	15.8	15.8	13.4	8.8	5.3	3.0	1.5	0.6	0.4		
40		1.6	5.0	9.7	18.9	33.0	40.1	44.4	44.4	40.1	33.0	18.9	9.7	5.0	1.6			
30	1.0	2.7	8.3	17.7	43.2	50.3	69.4	126.8	126.8	69.4	50.3	43.2	17.7	8.3	2.7	1.0		
20		3.6	10.8	31.0	61.0	89.6	568.2	1832.6	1832.6	568.2	89.6	61.0	31.0	10.8	3.6			
10	1.5	4.4	12.5	40.5	69.8	200.3	2012.9	6051.0	6051.0	2012.9	200.3	69.8	40.5	12.5	4.4	1.5		
0		4.8	13.8	42.7	76.8	229.6	2192.1	6292.8	6292.8	2192.1	229.6	76.8	42.7	13.8	4.8			
-10	1.6	4.9	14.4	41.2	80.8	131.4	803.4	2353.6	2353.6	803.4	131.4	80.8	41.2	14.4	4.9	1.6		
-20		4.5	14.1	31.5	76.2	104.5	145.2	290.4	290.4	145.2	104.5	76.2	31.5	14.1	4.5			
-30	1.3	3.8	12.3	24.6	53.3	93.9	109.9	115.3	115.3	109.9	93.9	53.3	24.6	12.3	3.8	1.3		
-40		2.9	9.3	19.9	31.8	48.9	74.3	93.3	93.3	74.3	48.9	31.8	19.9	9.3	2.9			
-50	1.1	1.9	5.9	13.1	22.3	30.1	35.9	39.7	39.7	35.9	30.1	22.3	13.1	5.9	1.9	1.1		
-60		1.3	3.0	6.5	11.4	16.0	20.1	22.6	22.6	20.1	16.0	11.4	6.5	3.0	1.3			
-70	0.7	4.7	11.3	18.9	23.1	18.9	11.3	4.7	0.7							0.7		
-80		4.7	11.3	18.9	23.1	18.9	11.3	4.7	0.7									
-90	0.7	4.7	11.3	18.9	23.1	18.9	11.3	4.7	0.7									

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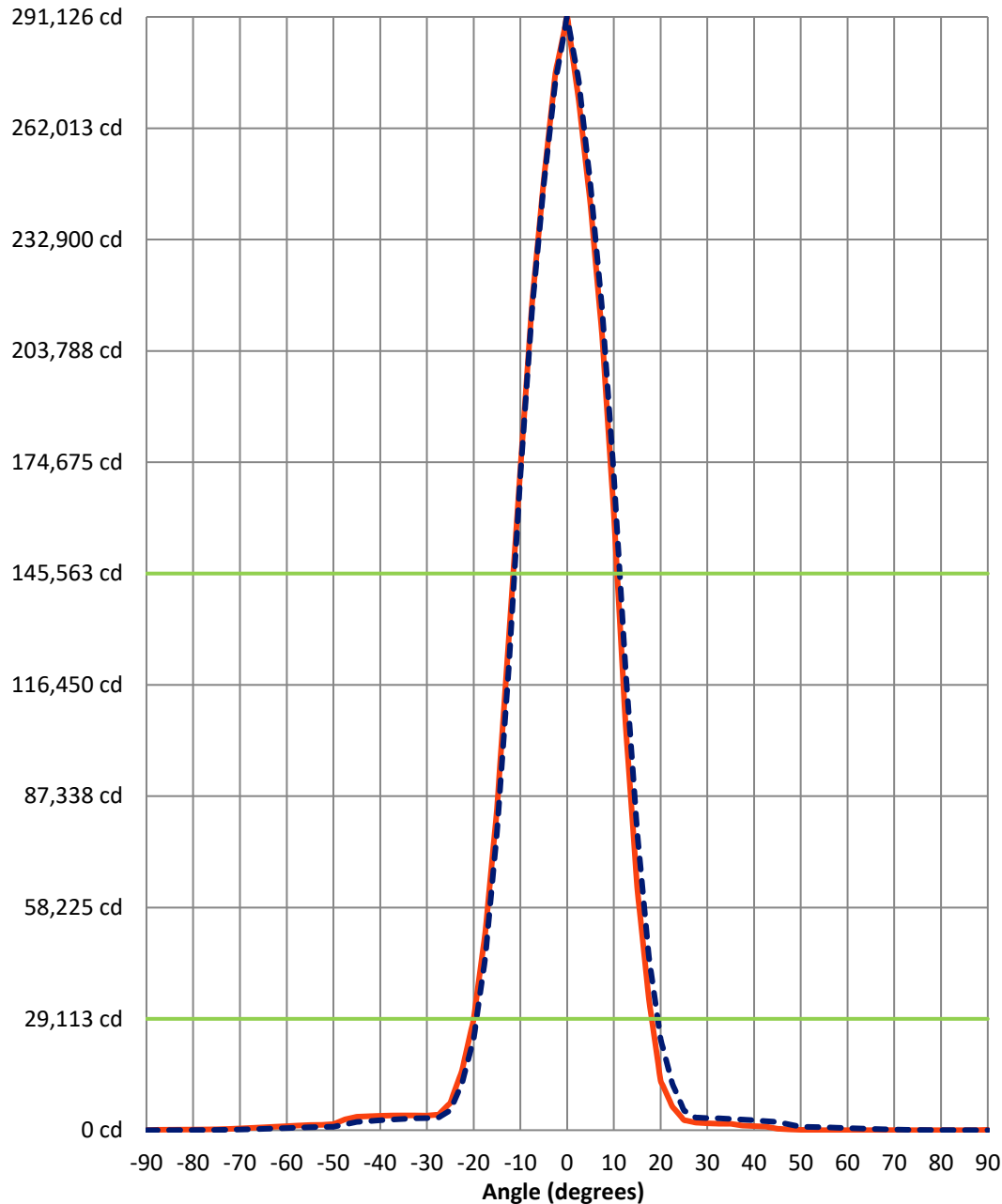
Luminous Intensity Polar Plot



— 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: 23777.5
Efficiency: 46.7%

Field:
H Angle: 38.8°
V Angle: 38.1°
Lumens: 42359
Efficiency: 83.2%

Spill:
Lumens: 8525.4
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°	3.0	6.2	9.5	16.3	23.2	29.1	35.1	39.6	44.0	47.6	51.1
87.5°	3.0	3.1	3.1	3.1	3.1	3.1	3.2	3.1	3.0	3.0	3.0
85°	3.0	3.2	3.2	3.2	3.2	3.3	3.3	3.2	3.0	3.0	3.0
82.5°	3.0	3.2	3.3	3.4	3.3	3.4	3.5	3.3	3.0	3.1	3.2
80°	3.0	3.3	3.4	3.5	3.4	3.5	3.6	3.5	3.5	3.5	3.4
77.5°	3.0	3.4	3.5	3.6	3.5	3.7	3.8	3.8	3.9	3.9	3.7
75°	3.0	3.5	3.6	3.7	3.7	3.9	4.0	4.0	4.2	4.1	4.0
72.5°	3.0	3.5	3.8	3.8	3.9	4.1	4.1	4.3	4.4	4.4	4.3
70°	3.0	3.6	3.9	4.0	4.1	4.3	4.3	4.5	4.7	4.7	4.6
67.5°	3.0	3.7	4.0	4.1	4.3	4.5	4.7	4.8	5.0	5.1	5.0
65°	3.0	3.8	4.1	4.3	4.5	4.8	5.0	5.1	5.5	5.5	5.5
62.5°	3.0	3.8	4.2	4.4	4.7	5.1	5.4	5.8	6.2	6.1	6.4
60°	3.0	3.9	4.3	4.6	4.9	5.5	5.7	6.6	7.0	7.3	7.4
57.5°	3.0	4.0	4.5	4.7	5.3	5.8	6.7	7.5	8.4	8.8	9.9
55°	3.0	4.1	4.7	4.9	5.7	6.2	7.8	8.6	10.2	11.0	13.3
52.5°	3.0	4.1	4.9	5.0	6.2	6.7	9.0	10.5	12.1	15.1	17.1
50°	3.0	4.2	5.1	5.1	6.6	8.0	10.3	12.5	14.8	19.6	24.4
47.5°	3.0	4.3	5.3	5.3	7.1	9.3	11.7	14.6	19.4	24.5	33.1
45°	3.0	4.4	5.5	5.7	7.7	10.6	13.6	16.8	24.4	33.3	42.7
42.5°	3.0	4.4	5.7	6.2	8.2	12.0	15.6	20.5	29.7	42.8	58.1
40°	3.0	4.5	6.0	6.8	9.1	13.4	17.6	25.4	36.7	52.9	75.6
37.5°	3.0	4.6	6.3	7.5	10.2	14.9	19.8	30.5	46.5	65.9	94.3
35°	3.0	4.6	6.5	8.2	11.3	16.6	22.1	35.7	56.8	83.4	115.2
32.5°	3.0	4.7	6.8	9.0	12.4	18.4	25.1	41.1	67.6	101.2	137.4
30°	3.0	4.8	7.1	9.7	13.6	20.2	29.5	47.4	78.8	119.1	158.6
27.5°	3.0	4.8	7.4	10.5	15.0	22.0	33.8	55.6	90.3	137.2	178.7
25°	3.0	4.9	7.7	11.3	16.4	23.8	38.1	63.4	102.3	154.3	197.7
22.5°	3.0	4.9	8.1	12.2	17.8	25.6	42.3	70.7	113.4	165.9	218.3
20°	3.0	5.0	8.4	13.0	19.2	27.6	46.3	77.6	123.5	176.6	234.4
17.5°	3.0	5.0	8.7	13.8	20.5	29.4	50.0	83.9	132.7	186.5	249.6
15°	3.0	5.1	9.0	14.6	21.7	31.2	53.4	89.5	140.8	195.5	264.2
12.5°	3.0	5.1	9.3	15.4	22.9	32.9	56.4	94.3	148.6	203.5	277.9
10°	3.0	5.2	9.6	16.2	24.0	34.4	59.2	98.5	155.9	213.5	292.2
7.5°	3.0	5.2	9.9	16.9	25.1	35.9	61.6	102.2	162.5	223.1	308.4
5°	3.0	5.2	10.2	17.7	26.1	37.3	63.8	105.4	168.3	232.0	323.3
2.5°	3.0	5.3	10.5	18.4	27.0	38.6	65.6	107.9	173.2	239.8	336.7
0°	3.0	5.3	10.7	19.0	27.9	39.8	67.1	109.9	177.1	246.6	348.2
-2.5°	3.0	5.5	11.3	19.8	29.1	41.5	69.3	113.9	182.5	253.7	354.2
-5°	3.0	5.8	11.8	20.6	30.3	43.0	71.1	117.2	186.8	259.5	358.3
-7.5°	3.0	6.0	12.3	21.4	31.4	44.4	72.6	119.8	189.8	263.9	360.5
-10°	3.0	6.2	12.8	22.1	32.3	45.7	73.7	121.6	191.7	266.8	360.9
-12.5°	3.0	6.4	13.3	22.7	33.2	46.8	74.4	122.6	192.3	268.0	360.4
-15°	3.0	6.6	13.7	23.3	34.1	47.8	74.8	122.6	190.8	265.8	357.9
-17.5°	3.0	6.8	14.1	23.8	34.8	48.6	74.8	121.3	187.3	262.1	352.6
-20°	3.0	6.9	14.4	24.2	35.4	49.3	74.5	119.0	182.6	256.8	344.3



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 CATALOG NUMBER: EPH-LS-08-0320N-40-80-2S-VHE

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	3.0	7.1	14.8	24.7	35.9	49.8	73.9	115.9	176.7	249.8	333.4
-25°	3.0	7.3	15.0	25.0	36.3	50.2	72.9	112.1	169.6	241.2	322.6
-27.5°	3.0	7.4	15.3	25.3	36.6	50.5	71.5	107.4	161.4	234.2	315.0
-30°	3.0	7.5	15.5	25.5	36.9	50.7	69.6	102.0	154.8	226.3	305.6
-32.5°	3.0	7.6	15.7	25.7	37.1	50.7	67.2	98.6	149.2	216.7	294.1
-35°	3.0	7.7	15.8	25.8	37.3	50.5	66.3	95.6	142.3	205.3	280.5
-37.5°	3.0	7.8	15.8	25.8	37.4	50.3	65.9	92.3	134.0	192.2	265.7
-40°	3.0	7.9	15.9	25.8	37.4	50.3	65.3	88.1	124.3	180.4	249.2
-42.5°	3.0	7.9	15.9	25.8	37.3	50.2	64.5	83.2	117.0	167.7	230.5
-45°	3.0	8.0	15.8	25.8	37.3	49.9	63.5	79.4	110.4	153.4	210.2
-47.5°	3.0	8.0	15.7	25.7	37.2	49.5	62.2	77.9	102.9	137.6	192.1
-50°	3.0	8.0	15.6	25.5	37.0	49.0	61.4	76.1	94.3	127.7	172.1
-52.5°	3.0	8.0	15.4	25.3	36.6	48.3	60.5	74.0	89.9	116.9	150.7
-55°	3.0	8.0	15.1	25.1	36.2	47.6	59.5	71.8	87.0	105.2	136.4
-57.5°	3.0	7.9	14.9	24.7	35.7	46.9	58.3	70.4	83.9	99.5	121.3
-60°	3.0	7.9	14.6	24.3	35.1	45.9	57.0	68.7	80.7	95.4	109.0
-62.5°	3.0	7.8	14.3	23.9	34.4	44.9	55.6	66.8	78.3	90.7	103.3
-65°	3.0	7.7	14.1	23.3	33.6	43.7	54.0	64.7	75.7	86.8	97.4
-67.5°	3.0	7.6	13.7	22.7	32.7	42.4	52.2	62.5	72.9	83.1	92.5
-70°	3.0	7.5	13.4	22.1	31.8	41.0	50.4	60.2	70.1	79.1	87.9
-72.5°	3.0	7.4	13.0	21.5	30.7	39.5	48.4	57.7	67.2	75.4	83.3
-75°	3.0	7.3	12.6	20.9	29.6	37.9	46.4	55.1	64.1	71.6	78.7
-77.5°	3.0	7.1	12.1	20.3	28.7	36.3	44.2	52.3	60.7	67.5	74.1
-80°	3.0	7.0	11.6	19.6	27.7	34.8	42.0	49.4	57.1	63.1	69.0
-82.5°	3.0	6.8	11.1	18.8	26.7	33.5	40.3	46.7	53.4	58.6	63.8
-85°	3.0	6.6	10.6	18.0	25.6	32.1	38.6	44.4	50.3	54.7	59.0
-87.5°	3.0	6.4	10.1	17.2	24.4	30.7	36.9	42.0	47.2	51.2	55.1
-90°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0



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 CATALOG NUMBER: EPH-LS-08-0320N-40-80-2S-VHE

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	53.8	56.4	58.8	61.2	63.9	66.5	69.5	72.5	75.5	78.4	80.8
87.5°	2.8	2.7	2.7	2.7	2.6	2.4	2.4	2.4	2.1	1.8	1.8
85°	3.0	3.0	3.0	3.0	2.8	2.6	2.5	2.4	2.2	2.1	2.2
82.5°	3.2	3.3	3.2	3.0	3.0	3.0	2.7	2.5	2.5	2.6	2.5
80°	3.5	3.6	3.4	3.2	3.1	3.0	2.9	2.9	3.0	3.0	2.8
77.5°	3.7	3.6	3.5	3.5	3.4	3.2	3.2	3.3	3.3	3.1	3.0
75°	3.9	3.7	3.7	3.6	3.5	3.5	3.6	3.6	3.5	3.4	3.3
72.5°	4.1	4.0	3.9	3.7	3.7	3.7	3.6	3.6	4.2	5.0	5.6
70°	4.5	4.3	4.2	4.1	4.0	4.0	4.7	6.0	7.5	8.6	10.2
67.5°	4.8	4.8	4.6	4.6	4.9	5.5	6.6	10.5	14.5	15.9	16.6
65°	5.3	5.2	5.2	5.6	5.9	8.9	12.8	17.4	22.4	23.3	22.4
62.5°	5.9	6.6	6.4	7.4	10.2	13.9	18.8	24.1	29.7	28.4	23.7
60°	8.2	8.6	9.5	11.9	14.9	19.1	24.6	26.8	29.2	29.6	23.0
57.5°	11.1	12.3	14.5	16.9	21.0	23.3	24.1	24.2	27.6	27.8	21.1
55°	15.4	17.5	20.9	23.7	26.3	23.8	23.8	26.0	27.1	25.0	18.8
52.5°	22.1	24.3	29.6	31.8	30.4	28.3	27.7	29.6	28.5	25.5	21.7
50°	29.6	36.0	39.5	41.2	37.8	37.5	34.4	36.2	37.3	35.6	37.2
47.5°	41.6	49.4	52.3	54.8	52.1	55.0	52.1	60.6	60.8	81.7	84.2
45°	56.3	66.8	70.2	76.2	80.8	83.4	100.0	101.1	145.6	163.0	200.5
42.5°	73.5	87.1	99.0	102.0	130.0	143.3	166.8	209.6	250.7	285.9	305.9
40°	95.5	110.1	134.8	162.5	194.3	225.6	260.5	310.8	354.2	373.2	383.3
37.5°	119.7	147.6	180.5	226.7	274.0	310.0	351.4	398.8	427.6	437.7	440.0
35°	145.7	185.8	240.9	289.5	340.2	388.5	427.2	472.5	482.1	490.1	534.7
32.5°	177.2	224.0	289.0	343.5	394.8	450.2	489.4	516.1	531.5	560.9	706.2
30°	208.9	263.7	328.1	386.0	445.8	498.5	535.8	561.8	579.4	718.2	1019.8
27.5°	234.9	297.9	361.9	429.1	495.3	548.0	583.9	607.5	710.1	940.3	1404.6
25°	258.5	324.7	395.6	476.8	546.3	595.2	632.0	655.3	884.7	1354.8	1676.9
22.5°	280.6	350.7	433.8	527.1	597.1	638.7	674.0	801.0	1148.3	1774.9	1948.1
20°	302.3	381.9	475.3	569.8	644.8	675.6	712.6	964.3	1487.5	1936.6	2126.3
17.5°	324.6	413.9	514.4	602.5	669.6	708.4	767.8	1122.7	1773.8	2078.1	2215.3
15°	347.1	444.1	546.3	631.4	694.1	740.7	894.2	1349.6	1951.2	2233.7	2362.9
12.5°	369.1	470.6	570.3	656.2	719.7	771.2	1009.7	1584.2	2111.5	2386.4	2557.5
10°	390.2	493.4	590.8	680.1	744.8	800.9	1126.4	1813.6	2256.2	2486.0	2629.4
7.5°	408.7	512.1	608.5	703.0	768.3	830.0	1254.4	1965.7	2317.8	2549.2	2665.8
5°	424.4	526.8	626.5	728.6	792.6	856.8	1370.7	2066.1	2341.3	2588.2	2704.0
2.5°	437.7	538.6	642.0	752.5	816.6	879.4	1452.1	2129.7	2357.2	2603.2	2741.4
0°	448.6	547.8	654.8	773.6	838.4	899.5	1512.7	2160.3	2362.4	2597.6	2776.5
-2.5°	455.7	561.2	678.5	793.9	856.3	916.4	1510.2	2178.4	2368.9	2627.6	2912.3
-5°	460.4	571.7	698.4	811.1	872.5	931.2	1484.4	2165.2	2383.2	2673.2	3001.0
-7.5°	462.8	578.7	713.8	824.9	887.8	947.9	1452.4	2134.8	2456.4	2767.0	3056.7
-10°	463.5	582.9	716.9	831.5	901.9	964.2	1399.8	2070.7	2514.2	2806.3	3072.8
-12.5°	466.6	584.9	715.2	834.2	913.9	979.1	1334.8	2028.3	2591.9	2830.5	3067.0
-15°	466.3	584.1	710.4	833.4	928.7	999.2	1248.4	1928.3	2639.3	2836.0	3051.2
-17.5°	462.4	580.8	703.1	830.6	942.8	1014.2	1126.5	1722.4	2503.9	2811.9	3032.5
-20°	454.6	573.5	692.9	821.6	950.6	1028.0	1112.0	1542.2	2225.3	2748.3	2997.4



REPORT NUMBER: P731337 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-2S-VHE

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	443.5	562.8	680.3	806.5	946.9	1043.7	1122.1	1366.8	1950.2	2654.1	2940.4
-25°	430.5	547.9	665.8	798.3	941.4	1058.7	1124.2	1203.9	1710.8	2342.0	2842.2
-27.5°	416.1	529.5	649.8	781.0	932.9	1056.0	1123.3	1198.6	1455.9	1958.2	2685.8
-30°	399.4	508.8	627.7	755.9	902.8	1027.6	1120.7	1182.9	1261.5	1657.2	2277.6
-32.5°	380.9	485.5	601.4	727.4	864.1	995.9	1105.2	1170.3	1239.3	1374.8	1874.9
-35°	362.8	462.9	572.4	694.7	824.6	952.8	1064.6	1157.2	1215.0	1291.2	1519.5
-37.5°	345.9	437.6	540.6	658.9	784.6	899.2	1020.2	1120.5	1199.7	1255.0	1347.3
-40°	326.5	409.3	508.1	618.8	731.7	840.8	955.9	1068.7	1166.1	1238.8	1293.8
-42.5°	304.6	383.8	473.1	571.5	675.8	779.7	888.5	1000.3	1107.2	1203.0	1271.3
-45°	280.9	355.3	435.7	525.0	617.6	716.6	820.2	925.9	1032.0	1137.8	1221.9
-47.5°	253.5	323.9	400.2	475.3	560.7	651.6	748.0	847.3	945.5	1047.5	1144.4
-50°	225.0	290.1	359.7	429.0	503.1	585.4	673.5	766.4	859.4	953.6	1047.0
-52.5°	199.1	253.2	317.4	382.7	448.1	518.4	598.2	683.0	770.7	859.6	941.3
-55°	171.4	220.1	272.9	334.0	395.5	456.6	521.4	598.1	677.7	760.1	833.3
-57.5°	150.2	186.8	232.3	282.9	340.0	397.9	454.8	512.4	583.4	656.7	718.3
-60°	132.5	159.0	193.8	236.6	282.0	335.5	389.0	442.5	497.5	549.9	606.8
-62.5°	116.3	137.9	162.5	192.3	231.8	273.1	320.6	369.8	420.2	465.4	507.2
-65°	109.4	119.7	138.2	160.5	183.1	218.4	256.4	295.2	338.9	378.9	416.6
-67.5°	102.0	111.6	121.2	132.9	153.3	174.1	195.1	229.4	263.6	294.6	325.3
-70°	96.1	103.5	112.0	120.5	129.3	141.3	160.0	179.4	198.8	220.2	246.2
-72.5°	90.4	97.0	103.7	110.4	118.2	126.4	135.0	143.8	157.2	173.7	188.6
-75°	84.8	90.3	96.3	102.5	108.7	114.9	121.9	130.0	138.0	146.1	153.6
-77.5°	79.4	84.4	89.5	94.7	100.0	105.6	111.7	118.1	124.7	131.3	137.1
-80°	73.8	78.5	82.9	87.3	92.1	96.9	102.0	107.2	113.0	119.0	124.3
-82.5°	67.7	71.7	75.6	79.5	83.9	88.4	92.7	97.1	101.9	106.8	111.1
-85°	61.9	64.7	68.1	71.5	75.5	79.4	83.1	86.8	91.0	95.1	98.5
-87.5°	57.9	60.6	63.3	65.9	69.1	72.3	75.3	78.3	81.8	85.2	87.8
-90°	2.7	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.1	1.8	1.8



REPORT NUMBER: P731337 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-2S-VHE

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	83.2	85.0	86.7	87.6	88.5	90.3	92.1	94.8	97.4	100.4	103.4
87.5°	1.8	1.8	1.8	1.8	1.7	1.5	1.2	1.2	1.2	1.2	1.2
85°	2.2	2.2	2.2	2.0	1.8	1.8	1.7	1.7	1.8	1.5	1.2
82.5°	2.4	2.4	2.4	2.3	2.2	2.0	1.8	1.8	1.8	1.8	1.8
80°	2.6	2.5	2.4	2.4	2.4	2.3	2.3	2.1	1.8	2.1	2.3
77.5°	3.0	2.8	2.6	2.6	2.4	2.3	2.0	1.9	1.8	1.8	1.8
75°	3.1	3.2	3.6	3.6	3.5	3.2	2.7	2.7	2.7	2.6	2.4
72.5°	6.0	6.3	6.5	7.1	7.4	7.8	8.5	9.6	10.9	12.2	13.4
70°	12.1	13.8	14.2	14.3	14.2	14.7	15.3	16.0	16.9	17.7	18.4
67.5°	18.7	20.2	20.4	20.7	20.2	19.3	18.5	18.5	19.6	20.9	22.3
65°	22.8	21.3	20.2	19.9	19.6	18.6	17.0	15.9	15.6	15.4	15.5
62.5°	20.5	17.5	16.5	16.3	15.4	14.2	12.1	10.4	9.5	9.0	9.1
60°	17.8	14.3	12.2	11.2	9.8	8.3	7.0	5.7	5.4	5.2	5.3
57.5°	14.6	10.9	8.4	8.0	6.9	5.5	4.5	3.6	3.4	3.4	3.6
55°	13.4	11.4	9.6	8.9	7.6	7.0	6.0	4.8	4.5	4.8	5.3
52.5°	17.4	16.3	15.4	15.5	17.1	15.8	11.8	16.5	19.2	19.2	18.4
50°	38.2	34.4	49.0	47.2	58.9	66.7	60.6	68.1	78.7	86.2	91.4
47.5°	108.9	112.9	130.5	145.7	157.9	171.6	185.5	193.9	196.1	210.0	219.5
45°	219.3	232.5	252.0	261.8	281.1	303.9	319.9	327.1	369.1	421.3	455.1
42.5°	318.3	328.4	343.7	378.5	413.9	491.9	581.5	584.7	665.7	737.4	810.7
40°	387.5	406.6	461.2	543.7	734.3	883.0	988.8	1092.5	1109.8	1076.1	1094.6
37.5°	477.1	545.4	683.6	906.4	1071.3	1220.6	1280.8	1288.6	1309.5	1322.7	1301.8
35°	646.0	873.5	988.2	1177.5	1297.5	1326.6	1344.8	1362.7	1379.9	1391.6	1404.3
32.5°	1015.9	1297.7	1312.8	1361.5	1383.8	1409.7	1429.0	1440.2	1448.0	1458.3	1493.1
30°	1413.5	1479.1	1484.5	1480.7	1488.4	1505.8	1518.3	1538.9	1559.4	1582.9	1660.1
27.5°	1599.1	1649.4	1633.7	1606.9	1593.6	1607.4	1641.8	1673.7	1733.2	1795.8	1906.5
25°	1804.7	1837.9	1818.8	1771.2	1741.4	1761.0	1812.6	1873.6	1987.2	2087.5	2291.1
22.5°	2024.8	2086.6	2066.6	2052.4	1989.6	1999.0	2039.7	2177.1	2461.5	2911.8	3846.6
20°	2195.4	2271.1	2280.6	2281.0	2267.8	2271.7	2366.2	2809.4	3640.9	6253.8	8570.0
17.5°	2322.0	2366.3	2419.6	2441.5	2467.4	2543.0	3047.1	4580.6	8171.4	12977.1	16657.0
15°	2486.0	2542.8	2600.5	2637.1	2695.6	3111.4	4400.3	9110.2	15639.9	23796.4	34221.8
12.5°	2617.3	2687.3	2733.1	2762.1	2897.0	3990.8	8475.7	15256.0	25443.8	38100.6	56876.5
10°	2690.0	2744.5	2807.0	2907.3	3457.8	5788.8	11952.5	21438.6	37099.3	59897.5	84905.2
7.5°	2726.1	2796.7	2901.3	3053.7	4092.6	8450.7	16628.1	30260.6	51651.0	80039.2	114883.7
5°	2768.2	2898.8	3023.3	3197.8	4585.6	10372.6	20344.8	37784.7	64338.4	99065.8	142099.0
2.5°	2836.2	3032.6	3112.8	3280.5	4882.6	11609.8	22561.1	43669.6	73812.4	114592.2	162907.2
0°	2943.4	3106.8	3155.0	3323.7	5181.6	12221.7	23863.0	45283.4	78032.5	120638.7	171102.5
-2.5°	3064.6	3166.6	3220.0	3408.0	5331.7	12846.0	24887.2	46367.7	77027.5	118624.4	168023.6
-5°	3143.6	3224.7	3276.3	3460.1	5315.2	12221.7	23742.8	43179.7	71151.5	108356.6	152522.9
-7.5°	3197.4	3281.8	3335.9	3504.4	5001.1	10562.0	20970.8	37220.3	60466.5	90979.5	129128.0
-10°	3250.0	3342.1	3413.0	3546.1	4426.3	8063.0	16459.7	28080.0	47288.6	71566.4	100088.9
-12.5°	3297.4	3411.2	3502.5	3563.7	3886.4	6132.8	12095.9	21478.1	34037.9	52160.9	73032.8
-15°	3321.4	3457.5	3559.6	3627.2	3814.4	4849.3	7832.7	14212.4	23763.9	35005.1	48586.6
-17.5°	3280.1	3483.1	3581.4	3655.8	3717.3	3983.3	5525.1	8724.1	14689.8	22053.7	28688.2
-20°	3214.3	3486.0	3597.2	3697.3	3767.3	3839.7	4036.1	5555.8	7982.8	12500.5	16922.3



REPORT NUMBER: P731337 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-2S-VHE

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3158.8	3411.3	3643.5	3751.7	3832.2	3837.5	3843.6	4026.5	4974.2	6496.2	8835.4
-25°	3120.2	3359.2	3629.4	3797.0	3852.8	3854.8	3824.4	3790.4	3897.8	4005.8	4860.5
-27.5°	3055.1	3314.3	3568.3	3772.6	3855.2	3852.4	3829.3	3806.7	3769.4	3745.2	3837.3
-30°	2975.3	3235.8	3472.2	3677.8	3800.2	3837.8	3822.1	3805.2	3793.7	3785.6	3769.1
-32.5°	2550.3	3139.4	3338.6	3525.1	3699.8	3776.4	3810.5	3802.5	3792.2	3787.7	3790.6
-35°	2083.2	2691.3	3208.6	3341.5	3493.1	3645.4	3752.9	3777.2	3788.0	3786.1	3790.8
-37.5°	1597.3	2145.2	2653.4	3078.2	3260.7	3419.0	3575.3	3678.7	3740.8	3751.6	3766.2
-40°	1376.6	1531.5	2012.9	2439.9	2795.1	3122.0	3287.4	3466.3	3605.8	3662.0	3691.5
-42.5°	1318.3	1379.8	1443.0	1756.2	2123.9	2435.6	2744.5	3051.4	3306.2	3450.3	3544.1
-45°	1292.9	1327.2	1363.7	1414.1	1459.3	1722.5	2006.0	2305.1	2640.0	2890.1	3123.1
-47.5°	1218.9	1288.0	1322.8	1344.2	1360.1	1394.8	1425.9	1510.2	1788.8	2008.0	2251.1
-50°	1120.9	1191.3	1248.2	1298.9	1316.2	1324.2	1333.5	1361.5	1406.0	1438.4	1487.4
-52.5°	1007.6	1073.5	1137.0	1191.3	1230.0	1263.4	1295.2	1317.3	1335.4	1354.1	1371.8
-55°	899.3	955.4	1009.8	1060.7	1107.0	1145.4	1183.3	1219.4	1253.3	1285.1	1314.7
-57.5°	780.4	836.5	886.5	932.3	971.6	1003.7	1041.2	1080.9	1118.1	1151.2	1183.3
-60°	660.5	711.5	759.4	802.6	838.7	867.0	903.4	939.0	973.0	1003.8	1030.8
-62.5°	547.7	591.3	632.5	670.7	704.8	735.3	765.8	796.3	828.5	857.3	882.6
-65°	452.4	487.2	516.5	543.7	566.7	594.2	623.5	650.9	679.2	705.8	730.1
-67.5°	356.7	386.2	410.7	434.3	453.5	472.8	494.7	515.4	535.4	556.1	576.4
-70°	269.2	289.9	305.4	321.6	340.4	358.1	375.7	393.4	410.0	428.2	447.0
-72.5°	200.9	211.0	221.2	234.3	245.5	258.3	271.0	284.5	298.3	311.5	323.8
-75°	160.8	167.3	175.0	181.3	186.2	192.4	199.4	208.0	216.6	225.1	233.2
-77.5°	143.1	147.5	151.0	153.8	156.2	159.3	162.5	168.5	174.9	182.1	189.4
-80°	129.4	132.2	134.6	136.6	138.4	141.0	143.7	148.9	154.5	159.8	165.0
-82.5°	115.4	117.8	119.8	121.5	123.1	125.6	128.2	132.3	136.5	141.7	146.9
-85°	101.8	103.9	105.9	107.5	109.0	111.0	112.9	116.8	120.7	124.8	128.9
-87.5°	90.5	92.2	94.0	95.3	96.6	98.2	99.9	103.0	106.1	109.4	112.7
-90°	1.8	1.8	1.8	1.5	1.2	1.2	1.2	1.2	1.2	0.9	0.6



REPORT NUMBER: P731337 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-2S-VHE

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	103.7	104.0	104.0	104.0	104.0	104.0	103.7	103.4	100.4	97.4	94.8
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5	1.8	1.7
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.1	1.8	2.1
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9
75°	2.1	1.8	1.8	1.8	1.8	1.8	2.1	2.4	2.6	2.7	2.7
72.5°	14.6	15.6	16.2	16.6	16.2	15.6	14.6	13.4	12.2	10.9	9.6
70°	18.7	18.9	19.0	19.0	19.0	18.9	18.7	18.4	17.7	16.9	16.0
67.5°	23.1	23.6	23.8	23.8	23.8	23.6	23.1	22.3	20.9	19.6	18.5
65°	14.8	13.7	12.7	11.9	12.7	13.7	14.8	15.5	15.4	15.6	15.9
62.5°	8.9	8.5	8.3	8.3	8.3	8.5	8.9	9.1	9.0	9.5	10.4
60°	5.3	5.4	5.1	4.8	5.1	5.4	5.3	5.3	5.2	5.4	5.7
57.5°	3.9	4.2	4.5	4.8	4.5	4.2	3.9	3.6	3.4	3.4	3.6
55°	5.7	6.2	6.7	7.1	6.7	6.2	5.7	5.3	4.8	4.5	4.8
52.5°	16.6	14.9	14.4	14.9	14.4	14.9	16.6	18.4	19.2	19.2	16.5
50°	94.0	95.9	98.3	101.0	98.3	95.9	94.0	91.4	86.2	78.7	68.1
47.5°	222.2	218.0	214.0	212.7	214.0	218.0	222.2	219.5	210.0	196.1	193.9
45°	421.2	390.2	374.4	383.8	374.4	390.2	421.2	455.1	421.3	369.1	327.1
42.5°	850.1	896.0	931.8	948.9	931.8	896.0	850.1	810.7	737.4	665.7	584.7
40°	1065.8	1048.5	1057.8	1071.9	1057.8	1048.5	1065.8	1094.6	1076.1	1109.8	1092.5
37.5°	1312.0	1317.7	1276.3	1208.5	1276.3	1317.7	1312.0	1301.8	1322.7	1309.5	1288.6
35°	1431.4	1505.3	1643.5	1676.7	1643.5	1505.3	1431.4	1404.3	1391.6	1379.9	1362.7
32.5°	1581.0	1657.6	1681.2	1690.4	1681.2	1657.6	1581.0	1493.1	1458.3	1448.0	1440.2
30°	1759.6	1794.2	1785.5	1798.5	1785.5	1794.2	1759.6	1660.1	1582.9	1559.4	1538.9
27.5°	1955.4	1975.6	1969.0	1986.3	1969.0	1975.6	1955.4	1906.5	1795.8	1733.2	1673.7
25°	2460.7	2620.3	2612.0	2649.3	2612.0	2620.3	2460.7	2291.1	2087.5	1987.2	1873.6
22.5°	4984.8	5549.1	5887.1	6214.2	5887.1	5549.1	4984.8	3846.6	2911.8	2461.5	2177.1
20°	11137.7	12764.3	13118.4	12989.4	13118.4	12764.3	11137.7	8570.0	6253.8	3640.9	2809.4
17.5°	23907.5	30397.4	33882.0	34269.6	33882.0	30397.4	23907.5	16657.0	12977.1	8171.4	4580.6
15°	44992.5	56335.2	62775.4	63452.0	62775.4	56335.2	44992.5	34221.8	23796.4	15639.9	9110.2
12.5°	73551.9	91615.2	104875.8	106355.2	104875.8	91615.2	73551.9	56876.5	38100.6	25443.8	15256.0
10°	112671.6	137093.1	156404.8	161109.4	156404.8	137093.1	112671.6	84905.2	59897.5	37099.3	21438.6
7.5°	151717.1	179587.0	202315.5	207663.2	202315.5	179587.0	151717.1	114883.7	80039.2	51651.0	30260.6
5°	182240.1	217899.2	236036.9	242029.5	236036.9	217899.2	182240.1	142099.0	99065.8	64338.4	37784.7
2.5°	205506.3	239177.0	260470.1	269206.4	260470.1	239177.0	205506.3	162907.2	114592.2	73812.4	43669.6
0°	214487.5	247148.2	274263.9	291125.6	274263.9	247148.2	214487.5	171102.5	120638.7	78032.5	45283.4
-2.5°	210967.0	242413.5	265458.6	276396.6	265458.6	242413.5	210967.0	168023.6	118624.4	77027.5	46367.7
-5°	193169.7	224904.9	242722.8	248366.8	242722.8	224904.9	193169.7	152522.9	108356.6	71151.5	43179.7
-7.5°	163345.4	191279.5	212406.6	216193.7	212406.6	191279.5	163345.4	129128.0	90979.5	60466.5	37220.3
-10°	129461.2	153643.0	169760.2	172808.9	169760.2	153643.0	129461.2	100088.9	71566.4	47288.6	28080.0
-12.5°	91768.6	113009.8	125752.6	128103.9	125752.6	113009.8	91768.6	73032.8	52160.9	34037.9	21478.1
-15°	62361.4	75592.1	83315.4	84095.3	83315.4	75592.1	62361.4	48586.6	35005.1	23763.9	14212.4
-17.5°	39019.6	46889.5	51703.1	51747.8	51703.1	46889.5	39019.6	28688.2	22053.7	14689.8	8724.1
-20°	22590.0	26345.5	29038.6	29027.4	29038.6	26345.5	22590.0	16922.3	12500.5	7982.8	5555.8



REPORT NUMBER: P731337 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-2S-VHE

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	11769.7	14001.8	15625.6	15551.4	15625.6	14001.8	11769.7	8835.4	6496.2	4974.2	4026.5
-25°	5779.5	6634.0	7202.7	7158.4	7202.7	6634.0	5779.5	4860.5	4005.8	3897.8	3790.4
-27.5°	3916.7	4010.7	4075.7	4082.4	4075.7	4010.7	3916.7	3837.3	3745.2	3769.4	3806.7
-30°	3762.8	3784.2	3806.9	3812.7	3806.9	3784.2	3762.8	3769.1	3785.6	3793.7	3805.2
-32.5°	3799.9	3816.7	3841.5	3857.2	3841.5	3816.7	3799.9	3790.6	3787.7	3792.2	3802.5
-35°	3802.6	3822.1	3850.8	3863.8	3850.8	3822.1	3802.6	3790.8	3786.1	3788.0	3777.2
-37.5°	3784.9	3808.7	3833.5	3844.8	3833.5	3808.7	3784.9	3766.2	3751.6	3740.8	3678.7
-40°	3717.8	3742.1	3760.2	3761.6	3760.2	3742.1	3717.8	3691.5	3662.0	3605.8	3466.3
-42.5°	3606.6	3636.7	3650.6	3648.1	3650.6	3636.7	3606.6	3544.1	3450.3	3306.2	3051.4
-45°	3344.1	3450.9	3503.4	3516.2	3503.4	3450.9	3344.1	3123.1	2890.1	2640.0	2305.1
-47.5°	2532.9	2689.5	2790.0	2830.0	2790.0	2689.5	2532.9	2251.1	2008.0	1788.8	1510.2
-50°	1551.3	1565.9	1575.5	1580.4	1575.5	1565.9	1551.3	1487.4	1438.4	1406.0	1361.5
-52.5°	1386.5	1390.7	1393.0	1393.3	1393.0	1390.7	1386.5	1371.8	1354.1	1335.4	1317.3
-55°	1336.1	1344.5	1349.8	1351.1	1349.8	1344.5	1336.1	1314.7	1285.1	1253.3	1219.4
-57.5°	1204.5	1209.4	1214.7	1218.0	1214.7	1209.4	1204.5	1183.3	1151.2	1118.1	1080.9
-60°	1047.0	1051.4	1052.2	1049.3	1052.2	1051.4	1047.0	1030.8	1003.8	973.0	939.0
-62.5°	896.5	900.6	904.6	906.1	904.6	900.6	896.5	882.6	857.3	828.5	796.3
-65°	741.5	743.5	744.4	742.7	744.4	743.5	741.5	730.1	705.8	679.2	650.9
-67.5°	585.9	589.9	595.6	599.5	595.6	589.9	585.9	576.4	556.1	535.4	515.4
-70°	451.3	449.5	453.3	456.3	453.3	449.5	451.3	447.0	428.2	410.0	393.4
-72.5°	325.4	323.5	322.2	319.7	322.2	323.5	325.4	323.8	311.5	298.3	284.5
-75°	232.7	230.4	230.0	229.3	230.0	230.4	232.7	233.2	225.1	216.6	208.0
-77.5°	189.4	188.5	187.4	186.0	187.4	188.5	189.4	189.4	182.1	174.9	168.5
-80°	165.5	165.5	164.8	164.0	164.8	165.5	165.5	165.0	159.8	154.5	148.9
-82.5°	147.2	147.2	146.8	146.2	146.8	147.2	147.2	146.9	141.7	136.5	132.3
-85°	129.2	129.4	128.9	128.3	128.9	129.4	129.2	128.9	124.8	120.7	116.8
-87.5°	113.1	113.5	113.2	112.9	113.2	113.5	113.1	112.7	109.4	106.1	103.0
-90°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.9	1.2	1.2



REPORT NUMBER: P731337 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-2S-VHE

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	92.1	90.3	88.5	87.6	86.7	85.0	83.2	80.8	78.4	75.5	72.5
87.5°	1.2	1.5	1.7	1.8	1.8	1.8	1.8	1.8	1.8	2.1	2.4
85°	1.7	1.8	1.8	2.0	2.2	2.2	2.2	2.2	2.1	2.2	2.4
82.5°	1.8	2.0	2.2	2.3	2.4	2.4	2.4	2.5	2.6	2.5	2.5
80°	2.3	2.3	2.4	2.4	2.4	2.5	2.6	2.8	3.0	3.0	2.9
77.5°	2.0	2.3	2.4	2.6	2.6	2.8	3.0	3.0	3.1	3.3	3.3
75°	2.7	3.2	3.5	3.6	3.6	3.2	3.1	3.3	3.4	3.5	3.6
72.5°	8.5	7.8	7.4	7.1	6.5	6.3	6.0	5.6	5.0	4.2	3.6
70°	15.3	14.7	14.2	14.3	14.2	13.8	12.1	10.2	8.6	7.5	6.0
67.5°	18.5	19.3	20.2	20.7	20.4	20.2	18.7	16.6	15.9	14.5	10.5
65°	17.0	18.6	19.6	19.9	20.2	21.3	22.8	22.4	23.3	22.4	17.4
62.5°	12.1	14.2	15.4	16.3	16.5	17.5	20.5	23.7	28.4	29.7	24.1
60°	7.0	8.3	9.8	11.2	12.2	14.3	17.8	23.0	29.6	29.2	26.8
57.5°	4.5	5.5	6.9	8.0	8.4	10.9	14.6	21.1	27.8	27.6	24.2
55°	6.0	7.0	7.6	8.9	9.6	11.4	13.4	18.8	25.0	27.1	26.0
52.5°	11.8	15.8	17.1	15.5	15.4	16.3	17.4	21.7	25.5	28.5	29.6
50°	60.6	66.7	58.9	47.2	49.0	34.4	38.2	37.2	35.6	37.3	36.2
47.5°	185.5	171.6	157.9	145.7	130.5	112.9	108.9	84.2	81.7	60.8	60.6
45°	319.9	303.9	281.1	261.8	252.0	232.5	219.3	200.5	163.0	145.6	101.1
42.5°	581.5	491.9	413.9	378.5	343.7	328.4	318.3	305.9	285.9	250.7	209.6
40°	988.8	883.0	734.3	543.7	461.2	406.6	387.5	383.3	373.2	354.2	310.8
37.5°	1280.8	1220.6	1071.3	906.4	683.6	545.4	477.1	440.0	437.7	427.6	398.8
35°	1344.8	1326.6	1297.5	1177.5	988.2	873.5	646.0	534.7	490.1	482.1	472.5
32.5°	1429.0	1409.7	1383.8	1361.5	1312.8	1297.7	1015.9	706.2	560.9	531.5	516.1
30°	1518.3	1505.8	1488.4	1480.7	1484.5	1479.1	1413.5	1019.8	718.2	579.4	561.8
27.5°	1641.8	1607.4	1593.6	1606.9	1633.7	1649.4	1599.1	1404.6	940.3	710.1	607.5
25°	1812.6	1761.0	1741.4	1771.2	1818.8	1837.9	1804.7	1676.9	1354.8	884.7	655.3
22.5°	2039.7	1999.0	1989.6	2052.4	2066.6	2086.6	2024.8	1948.1	1774.9	1148.3	801.0
20°	2366.2	2271.7	2267.8	2281.0	2280.6	2271.1	2195.4	2126.3	1936.6	1487.5	964.3
17.5°	3047.1	2543.0	2467.4	2441.5	2419.6	2366.3	2322.0	2215.3	2078.1	1773.8	1122.7
15°	4400.3	3111.4	2695.6	2637.1	2600.5	2542.8	2486.0	2362.9	2233.7	1951.2	1349.6
12.5°	8475.7	3990.8	2897.0	2762.1	2733.1	2687.3	2617.3	2557.5	2386.4	2111.5	1584.2
10°	11952.5	5788.8	3457.8	2907.3	2807.0	2744.5	2690.0	2629.4	2486.0	2256.2	1813.6
7.5°	16628.1	8450.7	4092.6	3053.7	2901.3	2796.7	2726.1	2665.8	2549.2	2317.8	1965.7
5°	20344.8	10372.6	4585.6	3197.8	3023.3	2898.8	2768.2	2704.0	2588.2	2341.3	2066.1
2.5°	22561.1	11609.8	4882.6	3280.5	3112.8	3032.6	2836.2	2741.4	2603.2	2357.2	2129.7
0°	23863.0	12221.7	5181.6	3323.7	3155.0	3106.8	2943.4	2776.5	2597.6	2362.4	2160.3
-2.5°	24887.2	12846.0	5331.7	3408.0	3220.0	3166.6	3064.6	2912.3	2627.6	2368.9	2178.4
-5°	23742.8	12221.7	5315.2	3460.1	3276.3	3224.7	3143.6	3001.0	2673.2	2383.2	2165.2
-7.5°	20970.8	10562.0	5001.1	3504.4	3335.9	3281.8	3197.4	3056.7	2767.0	2456.4	2134.8
-10°	16459.7	8063.0	4426.3	3546.1	3413.0	3342.1	3250.0	3072.8	2806.3	2514.2	2070.7
-12.5°	12095.9	6132.8	3886.4	3563.7	3502.5	3411.2	3297.4	3067.0	2830.5	2591.9	2028.3
-15°	7832.7	4849.3	3814.4	3627.2	3559.6	3457.5	3321.4	3051.2	2836.0	2639.3	1928.3
-17.5°	5525.1	3983.3	3717.3	3655.8	3581.4	3483.1	3280.1	3032.5	2811.9	2503.9	1722.4
-20°	4036.1	3839.7	3767.3	3697.3	3597.2	3486.0	3214.3	2997.4	2748.3	2225.3	1542.2



REPORT NUMBER: P731337 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-2S-VHE

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	3843.6	3837.5	3832.2	3751.7	3643.5	3411.3	3158.8	2940.4	2654.1	1950.2	1366.8
-25°	3824.4	3854.8	3852.8	3797.0	3629.4	3359.2	3120.2	2842.2	2342.0	1710.8	1203.9
-27.5°	3829.3	3852.4	3855.2	3772.6	3568.3	3314.3	3055.1	2685.8	1958.2	1455.9	1198.6
-30°	3822.1	3837.8	3800.2	3677.8	3472.2	3235.8	2975.3	2277.6	1657.2	1261.5	1182.9
-32.5°	3810.5	3776.4	3699.8	3525.1	3338.6	3139.4	2550.3	1874.9	1374.8	1239.3	1170.3
-35°	3752.9	3645.4	3493.1	3341.5	3208.6	2691.3	2083.2	1519.5	1291.2	1215.0	1157.2
-37.5°	3575.3	3419.0	3260.7	3078.2	2653.4	2145.2	1597.3	1347.3	1255.0	1199.7	1120.5
-40°	3287.4	3122.0	2795.1	2439.9	2012.9	1531.5	1376.6	1293.8	1238.8	1166.1	1068.7
-42.5°	2744.5	2435.6	2123.9	1756.2	1443.0	1379.8	1318.3	1271.3	1203.0	1107.2	1000.3
-45°	2006.0	1722.5	1459.3	1414.1	1363.7	1327.2	1292.9	1221.9	1137.8	1032.0	925.9
-47.5°	1425.9	1394.8	1360.1	1344.2	1322.8	1288.0	1218.9	1144.4	1047.5	945.5	847.3
-50°	1333.5	1324.2	1316.2	1298.9	1248.2	1191.3	1120.9	1047.0	953.6	859.4	766.4
-52.5°	1295.2	1263.4	1230.0	1191.3	1137.0	1073.5	1007.6	941.3	859.6	770.7	683.0
-55°	1183.3	1145.4	1107.0	1060.7	1009.8	955.4	899.3	833.3	760.1	677.7	598.1
-57.5°	1041.2	1003.7	971.6	932.3	886.5	836.5	780.4	718.3	656.7	583.4	512.4
-60°	903.4	867.0	838.7	802.6	759.4	711.5	660.5	606.8	549.9	497.5	442.5
-62.5°	765.8	735.3	704.8	670.7	632.5	591.3	547.7	507.2	465.4	420.2	369.8
-65°	623.5	594.2	566.7	543.7	516.5	487.2	452.4	416.6	378.9	338.9	295.2
-67.5°	494.7	472.8	453.5	434.3	410.7	386.2	356.7	325.3	294.6	263.6	229.4
-70°	375.7	358.1	340.4	321.6	305.4	289.9	269.2	246.2	220.2	198.8	179.4
-72.5°	271.0	258.3	245.5	234.3	221.2	211.0	200.9	188.6	173.7	157.2	143.8
-75°	199.4	192.4	186.2	181.3	175.0	167.3	160.8	153.6	146.1	138.0	130.0
-77.5°	162.5	159.3	156.2	153.8	151.0	147.5	143.1	137.1	131.3	124.7	118.1
-80°	143.7	141.0	138.4	136.6	134.6	132.2	129.4	124.3	119.0	113.0	107.2
-82.5°	128.2	125.6	123.1	121.5	119.8	117.8	115.4	111.1	106.8	101.9	97.1
-85°	112.9	111.0	109.0	107.5	105.9	103.9	101.8	98.5	95.1	91.0	86.8
-87.5°	99.9	98.2	96.6	95.3	94.0	92.2	90.5	87.8	85.2	81.8	78.3
-90°	1.2	1.2	1.2	1.5	1.8	1.8	1.8	1.8	1.8	2.1	2.4



REPORT NUMBER: P731337 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-2S-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	69.5	66.5	63.9	61.2	58.8	56.4	53.8	51.1	47.6	44.0	39.6
87.5°	2.4	2.4	2.6	2.7	2.7	2.7	2.8	3.0	3.0	3.0	3.1
85°	2.5	2.6	2.8	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.2
82.5°	2.7	3.0	3.0	3.0	3.2	3.3	3.2	3.2	3.1	3.0	3.3
80°	2.9	3.0	3.1	3.2	3.4	3.6	3.5	3.4	3.5	3.5	3.5
77.5°	3.2	3.2	3.4	3.5	3.5	3.6	3.7	3.7	3.9	3.9	3.8
75°	3.6	3.5	3.5	3.6	3.7	3.7	3.9	4.0	4.1	4.2	4.0
72.5°	3.6	3.7	3.7	3.7	3.9	4.0	4.1	4.3	4.4	4.4	4.3
70°	4.7	4.0	4.0	4.1	4.2	4.3	4.5	4.6	4.7	4.7	4.5
67.5°	6.6	5.5	4.9	4.6	4.6	4.8	4.8	5.0	5.1	5.0	4.8
65°	12.8	8.9	5.9	5.6	5.2	5.2	5.3	5.5	5.5	5.5	5.1
62.5°	18.8	13.9	10.2	7.4	6.4	6.6	5.9	6.4	6.1	6.2	5.8
60°	24.6	19.1	14.9	11.9	9.5	8.6	8.2	7.4	7.3	7.0	6.6
57.5°	24.1	23.3	21.0	16.9	14.5	12.3	11.1	9.9	8.8	8.4	7.5
55°	23.8	23.8	26.3	23.7	20.9	17.5	15.4	13.3	11.0	10.2	8.6
52.5°	27.7	28.3	30.4	31.8	29.6	24.3	22.1	17.1	15.1	12.1	10.5
50°	34.4	37.5	37.8	41.2	39.5	36.0	29.6	24.4	19.6	14.8	12.5
47.5°	52.1	55.0	52.1	54.8	52.3	49.4	41.6	33.1	24.5	19.4	14.6
45°	100.0	83.4	80.8	76.2	70.2	66.8	56.3	42.7	33.3	24.4	16.8
42.5°	166.8	143.3	130.0	102.0	99.0	87.1	73.5	58.1	42.8	29.7	20.5
40°	260.5	225.6	194.3	162.5	134.8	110.1	95.5	75.6	52.9	36.7	25.4
37.5°	351.4	310.0	274.0	226.7	180.5	147.6	119.7	94.3	65.9	46.5	30.5
35°	427.2	388.5	340.2	289.5	240.9	185.8	145.7	115.2	83.4	56.8	35.7
32.5°	489.4	450.2	394.8	343.5	289.0	224.0	177.2	137.4	101.2	67.6	41.1
30°	535.8	498.5	445.8	386.0	328.1	263.7	208.9	158.6	119.1	78.8	47.4
27.5°	583.9	548.0	495.3	429.1	361.9	297.9	234.9	178.7	137.2	90.3	55.6
25°	632.0	595.2	546.3	476.8	395.6	324.7	258.5	197.7	154.3	102.3	63.4
22.5°	674.0	638.7	597.1	527.1	433.8	350.7	280.6	218.3	165.9	113.4	70.7
20°	712.6	675.6	644.8	569.8	475.3	381.9	302.3	234.4	176.6	123.5	77.6
17.5°	767.8	708.4	669.6	602.5	514.4	413.9	324.6	249.6	186.5	132.7	83.9
15°	894.2	740.7	694.1	631.4	546.3	444.1	347.1	264.2	195.5	140.8	89.5
12.5°	1009.7	771.2	719.7	656.2	570.3	470.6	369.1	277.9	203.5	148.6	94.3
10°	1126.4	800.9	744.8	680.1	590.8	493.4	390.2	292.2	213.5	155.9	98.5
7.5°	1254.4	830.0	768.3	703.0	608.5	512.1	408.7	308.4	223.1	162.5	102.2
5°	1370.7	856.8	792.6	728.6	626.5	526.8	424.4	323.3	232.0	168.3	105.4
2.5°	1452.1	879.4	816.6	752.5	642.0	538.6	437.7	336.7	239.8	173.2	107.9
0°	1512.7	899.5	838.4	773.6	654.8	547.8	448.6	348.2	246.6	177.1	109.9
-2.5°	1510.2	916.4	856.3	793.9	678.5	561.2	455.7	354.2	253.7	182.5	113.9
-5°	1484.4	931.2	872.5	811.1	698.4	571.7	460.4	358.3	259.5	186.8	117.2
-7.5°	1452.4	947.9	887.8	824.9	713.8	578.7	462.8	360.5	263.9	189.8	119.8
-10°	1399.8	964.2	901.9	831.5	716.9	582.9	463.5	360.9	266.8	191.7	121.6
-12.5°	1334.8	979.1	913.9	834.2	715.2	584.9	466.6	360.4	268.0	192.3	122.6
-15°	1248.4	999.2	928.7	833.4	710.4	584.1	466.3	357.9	265.8	190.8	122.6
-17.5°	1126.5	1014.2	942.8	830.6	703.1	580.8	462.4	352.6	262.1	187.3	121.3
-20°	1112.0	1028.0	950.6	821.6	692.9	573.5	454.6	344.3	256.8	182.6	119.0



REPORT NUMBER: P731337 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-2S-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1122.1	1043.7	946.9	806.5	680.3	562.8	443.5	333.4	249.8	176.7	115.9
-25°	1124.2	1058.7	941.4	798.3	665.8	547.9	430.5	322.6	241.2	169.6	112.1
-27.5°	1123.3	1056.0	932.9	781.0	649.8	529.5	416.1	315.0	234.2	161.4	107.4
-30°	1120.7	1027.6	902.8	755.9	627.7	508.8	399.4	305.6	226.3	154.8	102.0
-32.5°	1105.2	995.9	864.1	727.4	601.4	485.5	380.9	294.1	216.7	149.2	98.6
-35°	1064.6	952.8	824.6	694.7	572.4	462.9	362.8	280.5	205.3	142.3	95.6
-37.5°	1020.2	899.2	784.6	658.9	540.6	437.6	345.9	265.7	192.2	134.0	92.3
-40°	955.9	840.8	731.7	618.8	508.1	409.3	326.5	249.2	180.4	124.3	88.1
-42.5°	888.5	779.7	675.8	571.5	473.1	383.8	304.6	230.5	167.7	117.0	83.2
-45°	820.2	716.6	617.6	525.0	435.7	355.3	280.9	210.2	153.4	110.4	79.4
-47.5°	748.0	651.6	560.7	475.3	400.2	323.9	253.5	192.1	137.6	102.9	77.9
-50°	673.5	585.4	503.1	429.0	359.7	290.1	225.0	172.1	127.7	94.3	76.1
-52.5°	598.2	518.4	448.1	382.7	317.4	253.2	199.1	150.7	116.9	89.9	74.0
-55°	521.4	456.6	395.5	334.0	272.9	220.1	171.4	136.4	105.2	87.0	71.8
-57.5°	454.8	397.9	340.0	282.9	232.3	186.8	150.2	121.3	99.5	83.9	70.4
-60°	389.0	335.5	282.0	236.6	193.8	159.0	132.5	109.0	95.4	80.7	68.7
-62.5°	320.6	273.1	231.8	192.3	162.5	137.9	116.3	103.3	90.7	78.3	66.8
-65°	256.4	218.4	183.1	160.5	138.2	119.7	109.4	97.4	86.8	75.7	64.7
-67.5°	195.1	174.1	153.3	132.9	121.2	111.6	102.0	92.5	83.1	72.9	62.5
-70°	160.0	141.3	129.3	120.5	112.0	103.5	96.1	87.9	79.1	70.1	60.2
-72.5°	135.0	126.4	118.2	110.4	103.7	97.0	90.4	83.3	75.4	67.2	57.7
-75°	121.9	114.9	108.7	102.5	96.3	90.3	84.8	78.7	71.6	64.1	55.1
-77.5°	111.7	105.6	100.0	94.7	89.5	84.4	79.4	74.1	67.5	60.7	52.3
-80°	102.0	96.9	92.1	87.3	82.9	78.5	73.8	69.0	63.1	57.1	49.4
-82.5°	92.7	88.4	83.9	79.5	75.6	71.7	67.7	63.8	58.6	53.4	46.7
-85°	83.1	79.4	75.5	71.5	68.1	64.7	61.9	59.0	54.7	50.3	44.4
-87.5°	75.3	72.3	69.1	65.9	63.3	60.6	57.9	55.1	51.2	47.2	42.0
-90°	2.4	2.4	2.4	2.4	2.4	2.4	2.7	3.0	3.0	3.0	3.0



REPORT NUMBER: P731337 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-2S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	35.1	29.1	23.2	16.3	9.5	6.2	3.0
87.5°	3.2	3.1	3.1	3.1	3.1	3.1	3.0
85°	3.3	3.3	3.2	3.2	3.2	3.2	3.0
82.5°	3.5	3.4	3.3	3.4	3.3	3.2	3.0
80°	3.6	3.5	3.4	3.5	3.4	3.3	3.0
77.5°	3.8	3.7	3.5	3.6	3.5	3.4	3.0
75°	4.0	3.9	3.7	3.7	3.6	3.5	3.0
72.5°	4.1	4.1	3.9	3.8	3.8	3.5	3.0
70°	4.3	4.3	4.1	4.0	3.9	3.6	3.0
67.5°	4.7	4.5	4.3	4.1	4.0	3.7	3.0
65°	5.0	4.8	4.5	4.3	4.1	3.8	3.0
62.5°	5.4	5.1	4.7	4.4	4.2	3.8	3.0
60°	5.7	5.5	4.9	4.6	4.3	3.9	3.0
57.5°	6.7	5.8	5.3	4.7	4.5	4.0	3.0
55°	7.8	6.2	5.7	4.9	4.7	4.1	3.0
52.5°	9.0	6.7	6.2	5.0	4.9	4.1	3.0
50°	10.3	8.0	6.6	5.1	5.1	4.2	3.0
47.5°	11.7	9.3	7.1	5.3	5.3	4.3	3.0
45°	13.6	10.6	7.7	5.7	5.5	4.4	3.0
42.5°	15.6	12.0	8.2	6.2	5.7	4.4	3.0
40°	17.6	13.4	9.1	6.8	6.0	4.5	3.0
37.5°	19.8	14.9	10.2	7.5	6.3	4.6	3.0
35°	22.1	16.6	11.3	8.2	6.5	4.6	3.0
32.5°	25.1	18.4	12.4	9.0	6.8	4.7	3.0
30°	29.5	20.2	13.6	9.7	7.1	4.8	3.0
27.5°	33.8	22.0	15.0	10.5	7.4	4.8	3.0
25°	38.1	23.8	16.4	11.3	7.7	4.9	3.0
22.5°	42.3	25.6	17.8	12.2	8.1	4.9	3.0
20°	46.3	27.6	19.2	13.0	8.4	5.0	3.0
17.5°	50.0	29.4	20.5	13.8	8.7	5.0	3.0
15°	53.4	31.2	21.7	14.6	9.0	5.1	3.0
12.5°	56.4	32.9	22.9	15.4	9.3	5.1	3.0
10°	59.2	34.4	24.0	16.2	9.6	5.2	3.0
7.5°	61.6	35.9	25.1	16.9	9.9	5.2	3.0
5°	63.8	37.3	26.1	17.7	10.2	5.2	3.0
2.5°	65.6	38.6	27.0	18.4	10.5	5.3	3.0
0°	67.1	39.8	27.9	19.0	10.7	5.3	3.0
-2.5°	69.3	41.5	29.1	19.8	11.3	5.5	3.0
-5°	71.1	43.0	30.3	20.6	11.8	5.8	3.0
-7.5°	72.6	44.4	31.4	21.4	12.3	6.0	3.0
-10°	73.7	45.7	32.3	22.1	12.8	6.2	3.0
-12.5°	74.4	46.8	33.2	22.7	13.3	6.4	3.0
-15°	74.8	47.8	34.1	23.3	13.7	6.6	3.0
-17.5°	74.8	48.6	34.8	23.8	14.1	6.8	3.0
-20°	74.5	49.3	35.4	24.2	14.4	6.9	3.0



REPORT NUMBER: P731337 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-2S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	73.9	49.8	35.9	24.7	14.8	7.1	3.0
-25°	72.9	50.2	36.3	25.0	15.0	7.3	3.0
-27.5°	71.5	50.5	36.6	25.3	15.3	7.4	3.0
-30°	69.6	50.7	36.9	25.5	15.5	7.5	3.0
-32.5°	67.2	50.7	37.1	25.7	15.7	7.6	3.0
-35°	66.3	50.5	37.3	25.8	15.8	7.7	3.0
-37.5°	65.9	50.3	37.4	25.8	15.8	7.8	3.0
-40°	65.3	50.3	37.4	25.8	15.9	7.9	3.0
-42.5°	64.5	50.2	37.3	25.8	15.9	7.9	3.0
-45°	63.5	49.9	37.3	25.8	15.8	8.0	3.0
-47.5°	62.2	49.5	37.2	25.7	15.7	8.0	3.0
-50°	61.4	49.0	37.0	25.5	15.6	8.0	3.0
-52.5°	60.5	48.3	36.6	25.3	15.4	8.0	3.0
-55°	59.5	47.6	36.2	25.1	15.1	8.0	3.0
-57.5°	58.3	46.9	35.7	24.7	14.9	7.9	3.0
-60°	57.0	45.9	35.1	24.3	14.6	7.9	3.0
-62.5°	55.6	44.9	34.4	23.9	14.3	7.8	3.0
-65°	54.0	43.7	33.6	23.3	14.1	7.7	3.0
-67.5°	52.2	42.4	32.7	22.7	13.7	7.6	3.0
-70°	50.4	41.0	31.8	22.1	13.4	7.5	3.0
-72.5°	48.4	39.5	30.7	21.5	13.0	7.4	3.0
-75°	46.4	37.9	29.6	20.9	12.6	7.3	3.0
-77.5°	44.2	36.3	28.7	20.3	12.1	7.1	3.0
-80°	42.0	34.8	27.7	19.6	11.6	7.0	3.0
-82.5°	40.3	33.5	26.7	18.8	11.1	6.8	3.0
-85°	38.6	32.1	25.6	18.0	10.6	6.6	3.0
-87.5°	36.9	30.7	24.4	17.2	10.1	6.4	3.0
-90°	3.0	3.0	3.0	3.0	3.0	3.0	3.0

(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

