

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: P731317 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-70-3S-VHE**

Issue Date: 11/16/2023

Test Information

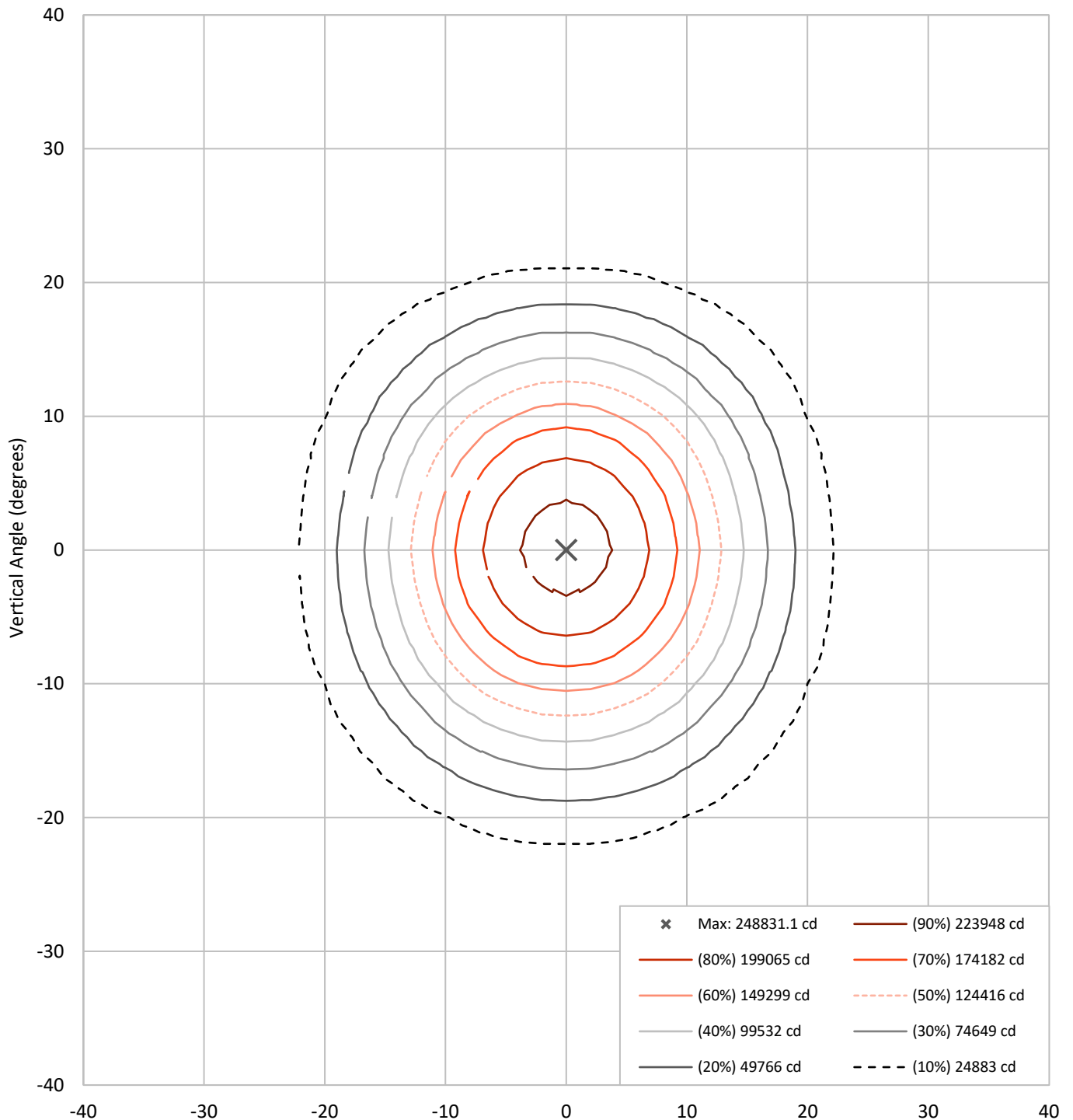
Test Method: LM-79-08
Report Number: P731317 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-40-70-3S-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 70 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:	55905 lumens	Max Intensity:	248831.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	161.7 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:	26748.2 lumens	Field Lumens:	46869.4 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





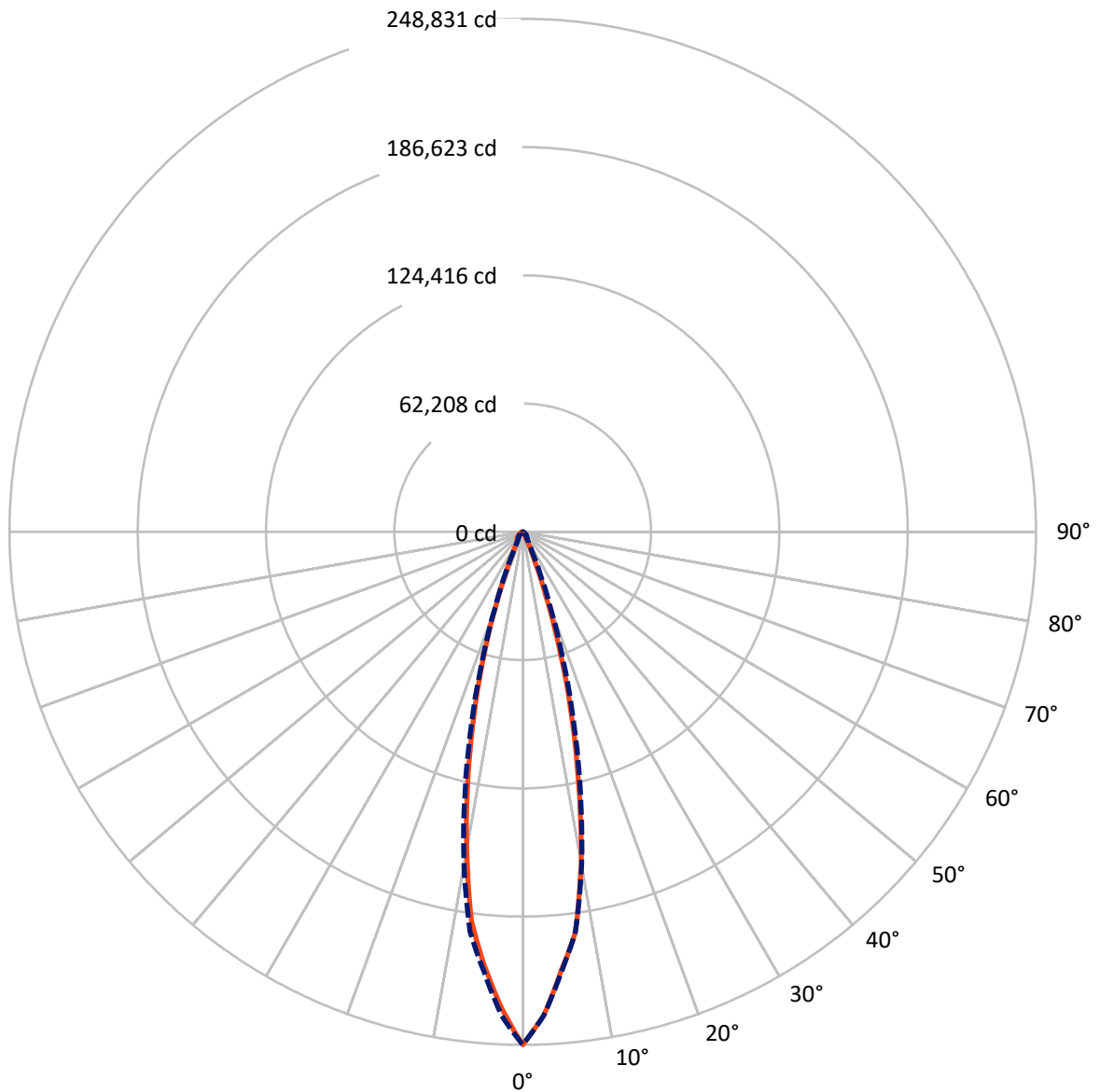
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Lumen Table

90	0.1		0.4		0.9		1.3		1.6		1.3		0.9		0.4		0.1	
80	0.1		0.4		0.9		1.3		1.6		1.3		0.9		0.4		0.1	
70	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		
60		0.3	0.5	0.7	0.6	0.6	0.8	1.0	1.0	0.8	0.6	0.6	0.7	0.5	0.3			
50	0.5	0.8	1.9	3.9	7.2	12.3	17.6	19.9	19.9	17.6	12.3	7.2	3.9	1.9	0.8	0.5		
40		1.9	5.9	12.2	23.0	38.2	46.2	54.2	54.2	46.2	38.2	23.0	12.2	5.9	1.9			
30	1.3	3.2	10.0	21.9	49.0	63.1	136.2	297.9	297.9	136.2	63.1	49.0	21.9	10.0	3.2	1.3		
20		4.3	13.1	35.6	70.4	170.1	1024.7	2477.2	2477.2	1024.7	170.1	70.4	35.6	13.1	4.3			
10	1.9	5.2	15.2	45.3	85.2	377.6	2488.7	5668.5	5668.5	2488.7	377.6	85.2	45.3	15.2	5.2	1.9		
0		5.7	16.7	48.0	94.4	389.2	2503.8	5609.7	5609.7	2503.8	389.2	94.4	48.0	16.7	5.7			
-10	2.0	5.8	17.3	46.3	94.1	208.6	1068.4	2500.3	2500.3	1068.4	208.6	94.1	46.3	17.3	5.8	2.0		
-20		5.3	16.5	36.6	84.7	127.8	221.5	421.2	421.2	221.5	127.8	84.7	36.6	16.5	5.3			
-30	1.7	4.5	14.1	29.3	58.5	102.2	126.2	140.1	140.1	126.2	102.2	58.5	29.3	14.1	4.5	1.7		
-40		3.5	10.8	22.7	37.0	54.6	80.1	99.8	99.8	80.1	54.6	37.0	22.7	10.8	3.5			
-50	1.4	2.4	7.0	14.9	24.9	33.9	41.2	45.7	45.7	41.2	33.9	24.9	14.9	7.0	2.4	1.4		
-60		1.7	3.7	7.7	13.0	17.9	22.6	25.4	25.4	22.6	17.9	13.0	7.7	3.7	1.7			
-70	1.0	1.0	3.0	6.0	9.0	12.0	15.0	18.0	18.0	15.0	12.0	9.0	6.0	3.0	1.0	1.0		
-80		6.1	12.2	18.3	24.4	30.5	36.6	42.7	42.7	36.6	30.5	24.4	18.3	12.2	6.1			
-90	1.0		6.1		14.2		23.1		28.3		23.1		14.2		6.1		1.0	

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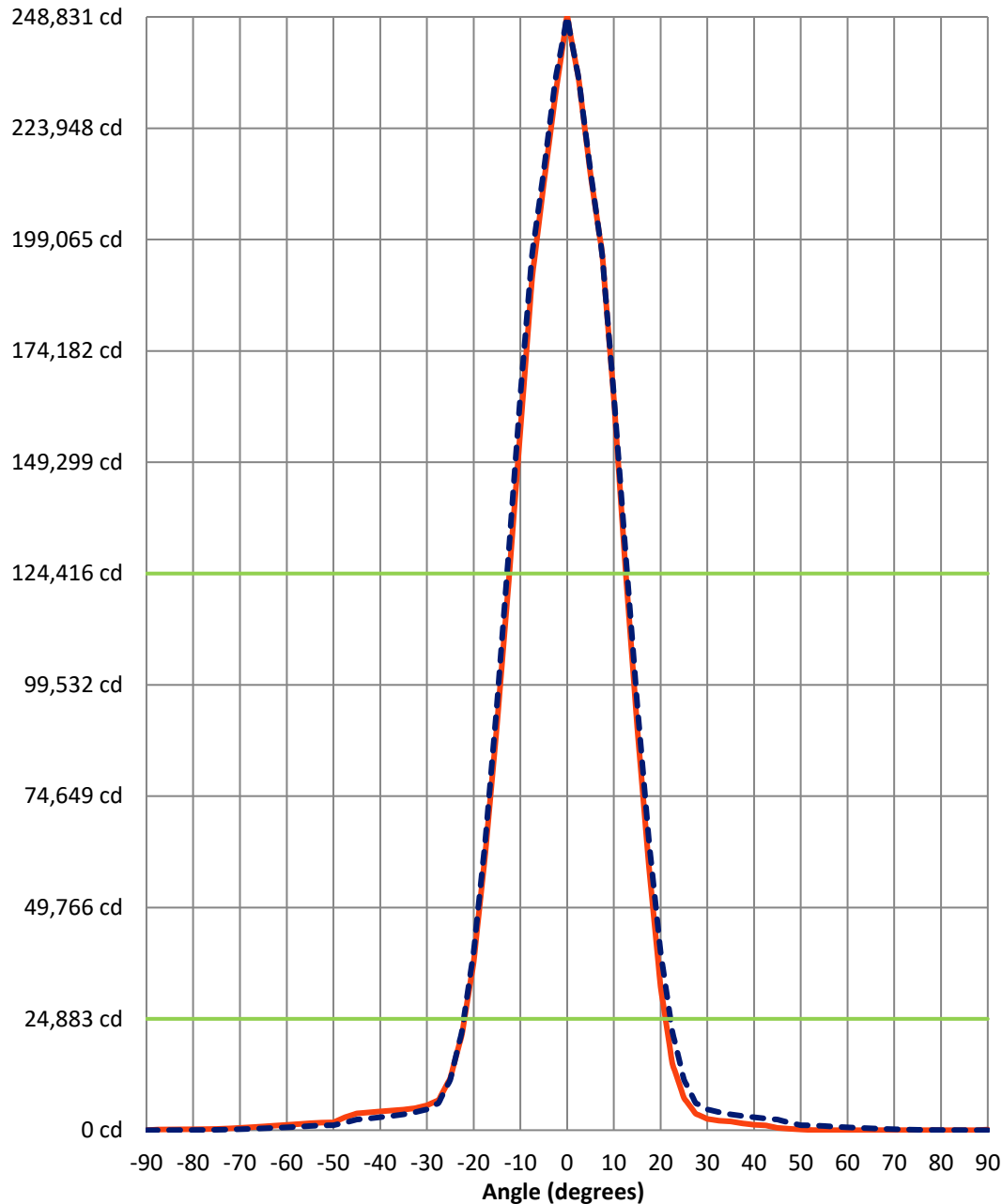
Luminous Intensity Polar Plot



— 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: 26748.2
 Efficiency: 47.8%

Field:
 H Angle: 44.2°
 V Angle: 43°
 Lumens: 46869.4
 Efficiency: 83.8%

Spill:
 Lumens: 9035.6
 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°	2.0	8.3	14.7	23.6	32.6	40.3	48.0	53.7	59.3	64.0	68.6
87.5°	2.0	2.2	2.1	2.2	2.2	2.2	2.2	2.0	1.8	1.7	1.6
85°	2.0	2.3	2.2	2.3	2.5	2.4	2.4	2.3	2.3	2.1	1.9
82.5°	2.0	2.5	2.3	2.5	2.7	2.7	2.6	2.6	2.7	2.5	2.2
80°	2.0	2.6	2.5	2.7	2.9	2.9	2.8	2.9	2.9	2.7	2.5
77.5°	2.0	2.8	2.6	2.8	3.1	3.2	3.1	3.2	3.2	3.0	2.8
75°	2.0	3.0	2.8	3.0	3.4	3.5	3.5	3.5	3.4	3.4	3.2
72.5°	2.0	3.1	2.9	3.2	3.7	3.9	3.9	3.9	4.0	3.9	3.5
70°	2.0	3.3	3.1	3.4	4.1	4.3	4.3	4.6	4.6	4.4	4.4
67.5°	2.0	3.5	3.3	3.8	4.5	4.7	5.1	5.4	5.3	5.6	5.5
65°	2.0	3.6	3.5	4.2	4.9	5.4	6.0	6.1	6.7	6.8	6.8
62.5°	2.0	3.8	3.7	4.6	5.4	6.3	6.9	7.4	8.2	8.2	8.2
60°	2.0	4.0	3.9	5.0	5.8	7.2	7.9	9.0	9.7	10.0	9.7
57.5°	2.0	4.2	4.4	5.4	6.7	8.1	9.4	10.6	11.8	12.0	13.2
55°	2.0	4.3	4.8	5.8	7.6	9.1	10.9	12.3	14.2	15.0	17.9
52.5°	2.0	4.5	5.3	6.3	8.6	10.2	12.5	14.8	16.9	20.7	23.0
50°	2.0	4.7	5.8	6.7	9.6	11.7	14.1	17.4	20.6	26.9	32.3
47.5°	2.0	4.9	6.3	7.3	10.6	13.3	15.9	20.2	26.8	33.5	43.5
45°	2.0	5.1	6.8	8.0	11.6	14.9	18.4	23.0	33.4	45.0	55.9
42.5°	2.0	5.3	7.3	8.8	12.6	16.5	20.9	27.8	40.2	57.3	74.9
40°	2.0	5.4	7.9	9.8	13.8	18.2	23.7	33.9	48.8	70.5	96.3
37.5°	2.0	5.6	8.4	10.9	15.2	20.0	26.7	40.2	60.8	86.1	119.3
35°	2.0	5.8	8.9	12.0	16.5	22.2	29.7	46.6	73.4	106.3	144.9
32.5°	2.0	6.0	9.5	13.1	17.9	24.7	33.6	53.3	86.4	126.6	170.4
30°	2.0	6.2	10.0	14.2	19.2	27.1	39.1	61.0	99.8	147.0	194.3
27.5°	2.0	6.4	10.6	15.3	20.9	29.6	44.6	71.2	113.3	167.3	216.4
25°	2.0	6.5	11.1	16.4	22.7	32.0	49.9	80.8	127.1	186.3	237.0
22.5°	2.0	6.7	11.7	17.5	24.4	34.4	55.2	89.8	139.7	199.2	259.5
20°	2.0	6.9	12.2	18.6	26.0	37.0	60.2	98.2	151.1	211.2	277.7
17.5°	2.0	7.0	12.7	19.6	27.6	39.4	65.0	106.0	161.3	222.2	294.7
15°	2.0	7.2	13.3	20.7	29.2	41.7	69.3	113.0	170.3	232.2	310.8
12.5°	2.0	7.4	13.8	21.7	30.7	43.8	73.3	119.3	179.5	241.2	325.8
10°	2.0	7.5	14.3	22.6	32.2	45.9	76.9	124.9	188.9	254.6	342.3
7.5°	2.0	7.6	14.7	23.5	33.6	47.8	80.2	129.8	197.5	268.0	362.8
5°	2.0	7.8	15.2	24.4	34.9	49.5	83.2	134.1	205.3	280.6	381.8
2.5°	2.0	7.9	15.6	25.2	36.1	51.1	85.7	137.7	212.1	292.2	399.1
0°	2.0	8.0	16.0	26.0	37.3	52.6	87.9	140.6	217.8	302.4	414.3
-2.5°	2.0	8.3	16.7	27.2	39.0	54.8	90.7	145.4	224.2	309.4	421.4
-5°	2.0	8.6	17.4	28.2	40.5	56.9	93.1	149.3	229.3	314.8	426.2
-7.5°	2.0	8.9	18.0	29.3	42.0	58.8	95.1	152.4	233.1	318.7	428.8
-10°	2.0	9.2	18.6	30.2	43.3	60.5	96.6	154.6	235.5	321.1	429.1
-12.5°	2.0	9.5	19.2	31.1	44.6	62.0	97.6	155.7	236.3	321.8	428.2
-15°	2.0	9.8	19.7	31.9	45.7	63.4	98.2	155.8	234.9	319.8	424.9
-17.5°	2.0	10.0	20.2	32.7	46.8	64.5	98.3	154.4	231.1	316.0	418.6
-20°	2.0	10.2	20.7	33.3	47.7	65.5	97.9	151.8	225.9	310.5	409.3



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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	2.0	10.4	21.1	33.9	48.4	66.2	97.2	148.3	219.4	303.1	397.0
-25°	2.0	10.6	21.4	34.4	49.1	66.9	95.9	143.8	211.5	293.8	384.1
-27.5°	2.0	10.8	21.7	34.8	49.6	67.5	94.1	138.4	202.2	285.4	374.9
-30°	2.0	10.9	22.0	35.1	50.0	67.8	91.8	132.0	194.7	276.2	363.8
-32.5°	2.0	11.1	22.2	35.3	50.5	67.9	89.0	127.9	188.3	265.4	350.5
-35°	2.0	11.2	22.4	35.4	50.8	67.9	88.0	124.4	180.2	253.1	335.0
-37.5°	2.0	11.3	22.5	35.5	51.0	67.8	87.7	120.4	170.4	239.4	318.7
-40°	2.0	11.3	22.5	35.4	51.2	68.0	87.2	115.6	159.0	226.0	300.2
-42.5°	2.0	11.4	22.6	35.3	51.2	67.9	86.4	109.9	150.4	210.0	279.0
-45°	2.0	11.4	22.5	35.3	51.1	67.7	85.3	105.7	143.0	192.1	255.5
-47.5°	2.0	11.4	22.4	35.1	50.9	67.4	84.0	104.0	134.5	172.9	233.6
-50°	2.0	11.4	22.3	35.0	50.5	66.8	83.0	101.9	124.5	161.5	210.1
-52.5°	2.0	11.3	22.1	34.9	50.0	66.2	81.9	99.5	119.0	149.2	185.7
-55°	2.0	11.3	21.9	34.7	49.4	65.2	80.7	96.8	115.3	136.0	170.2
-57.5°	2.0	11.2	21.6	34.3	48.6	64.0	79.2	94.9	111.3	129.4	154.0
-60°	2.0	11.1	21.3	33.9	47.8	62.7	77.5	92.6	107.3	124.5	140.5
-62.5°	2.0	10.9	20.9	33.4	47.0	61.2	75.6	90.0	104.1	119.0	133.8
-65°	2.0	10.8	20.6	32.9	46.2	59.6	73.6	87.2	100.7	114.2	126.7
-67.5°	2.0	10.6	20.2	32.2	45.2	58.0	71.4	84.4	96.9	109.4	120.7
-70°	2.0	10.4	19.7	31.5	44.1	56.4	69.1	81.3	93.2	104.4	115.2
-72.5°	2.0	10.2	19.2	30.7	42.9	54.6	66.6	78.0	89.3	99.5	109.5
-75°	2.0	10.0	18.7	29.9	41.6	52.6	64.0	74.6	85.2	94.4	103.4
-77.5°	2.0	9.8	18.1	29.0	40.3	50.6	61.2	70.9	80.7	89.1	97.2
-80°	2.0	9.5	17.5	28.1	38.9	48.6	58.3	67.1	76.1	83.6	90.9
-82.5°	2.0	9.2	16.8	27.0	37.5	46.6	55.8	63.5	71.3	77.9	84.5
-85°	2.0	9.0	16.1	26.0	35.9	44.6	53.3	60.3	67.3	73.0	78.6
-87.5°	2.0	8.7	15.4	24.8	34.3	42.5	50.7	57.0	63.4	68.5	73.6
-90°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.7	1.3	1.3	1.3



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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°	72.3	75.9	79.3	82.6	85.6	88.6	92.6	96.6	99.6	102.6	105.6
87.5°	1.6	1.6	1.7	1.7	1.5	1.3	1.3	1.3	1.2	1.2	1.2
85°	1.9	2.0	2.0	2.0	1.7	1.5	1.5	1.6	1.6	1.7	1.5
82.5°	2.3	2.3	2.2	2.0	1.9	2.0	2.0	2.0	2.0	2.0	1.8
80°	2.6	2.7	2.4	2.2	2.3	2.4	2.3	2.1	2.0	2.0	2.1
77.5°	2.8	2.7	2.6	2.6	2.7	2.8	2.8	2.7	2.7	2.6	2.7
75°	3.0	2.8	2.9	2.8	2.8	3.1	3.3	3.3	3.2	3.1	3.1
72.5°	3.5	3.5	3.4	3.0	3.1	3.3	3.3	3.3	4.1	5.5	6.6
70°	4.3	4.3	4.1	3.8	3.7	3.9	5.0	6.9	8.9	10.8	12.6
67.5°	5.3	5.1	4.8	4.8	5.5	6.7	8.1	12.8	17.7	19.3	19.6
65°	6.2	6.1	6.1	6.9	7.9	11.2	15.5	21.2	25.9	25.6	23.6
62.5°	7.3	8.3	8.3	10.0	13.2	17.2	22.3	27.1	31.3	29.3	24.4
60°	10.5	11.2	12.7	15.7	19.1	23.1	28.3	29.9	30.9	30.2	23.7
57.5°	14.5	16.2	19.4	22.2	26.3	28.1	28.5	28.2	30.0	28.8	22.3
55°	20.3	23.3	27.5	30.4	32.8	29.4	29.0	30.8	30.6	28.0	21.6
52.5°	29.0	32.1	38.1	40.2	38.3	35.6	34.6	36.3	35.0	31.5	27.3
50°	38.5	46.0	49.9	51.6	48.2	47.9	44.4	46.6	48.5	46.7	52.6
47.5°	52.9	62.0	64.9	68.0	66.3	72.4	69.3	80.8	81.5	115.0	125.1
45°	70.3	82.5	85.8	93.9	102.7	113.3	131.7	136.7	191.7	225.3	264.9
42.5°	91.3	106.5	120.3	124.9	164.5	185.9	213.6	264.8	316.1	358.2	387.7
40°	118.2	133.8	162.9	197.6	239.7	276.2	328.9	388.2	437.1	469.4	484.6
37.5°	147.9	178.3	216.4	272.6	323.8	370.2	437.5	496.9	540.2	570.2	574.0
35°	179.8	223.0	285.4	342.3	395.1	457.9	524.8	593.1	628.6	641.5	696.6
32.5°	217.0	266.5	340.4	402.1	461.7	532.9	604.1	663.0	694.4	730.8	917.1
30°	252.2	312.2	385.7	451.3	525.0	606.2	674.2	729.8	751.5	942.9	1244.3
27.5°	280.3	351.8	425.6	504.8	589.4	682.2	750.8	786.9	911.0	1194.3	1630.1
25°	306.5	383.4	465.9	564.8	661.1	753.0	822.8	845.9	1104.1	1584.5	1909.2
22.5°	332.1	414.3	510.3	628.3	726.9	812.7	871.1	1010.9	1380.9	1989.2	2157.8
20°	357.7	450.7	558.6	676.3	785.0	865.2	910.0	1184.9	1717.0	2144.7	2334.4
17.5°	382.4	487.5	603.0	716.7	826.3	907.6	965.5	1331.6	1983.2	2284.3	2471.0
15°	406.4	518.8	637.2	754.6	866.4	944.6	1101.9	1546.9	2148.6	2453.1	2650.3
12.5°	429.4	545.6	662.4	787.5	905.2	980.7	1243.4	1807.9	2321.1	2619.4	2832.6
10°	451.2	568.2	684.4	817.4	941.3	1012.1	1376.2	2051.7	2479.0	2737.8	2931.0
7.5°	473.1	588.5	704.2	844.5	975.3	1040.7	1488.5	2185.0	2541.0	2816.0	3000.5
5°	492.4	607.3	727.7	878.0	1008.3	1067.0	1583.2	2274.8	2560.6	2855.0	3050.5
2.5°	509.0	622.9	748.2	909.2	1038.0	1090.8	1647.9	2343.2	2584.3	2882.8	3112.6
0°	522.9	635.5	765.4	935.9	1063.2	1112.5	1690.7	2380.1	2599.3	2895.0	3181.5
-2.5°	533.1	652.3	792.9	958.6	1083.8	1135.1	1704.2	2396.0	2621.1	2962.2	3336.2
-5°	540.6	665.7	816.0	976.7	1100.6	1155.9	1694.5	2381.2	2647.2	3024.3	3434.5
-7.5°	545.3	675.5	833.8	990.2	1114.7	1179.3	1665.6	2364.2	2728.8	3102.2	3483.9
-10°	547.5	680.5	836.5	995.2	1125.9	1202.8	1616.2	2306.9	2787.7	3131.9	3488.0
-12.5°	549.5	681.5	833.2	994.3	1133.0	1224.3	1554.1	2237.9	2842.1	3143.1	3462.7
-15°	547.8	679.4	825.8	988.1	1141.9	1251.5	1474.7	2110.1	2866.3	3131.3	3415.3
-17.5°	542.2	674.2	815.7	980.2	1147.6	1276.8	1370.5	1913.1	2736.0	3095.2	3379.2
-20°	532.8	664.8	801.2	964.9	1144.5	1287.7	1367.9	1768.9	2463.1	3024.2	3325.5



REPORT NUMBER: P731317 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-VHE

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	520.4	651.4	783.9	944.6	1126.5	1283.2	1386.9	1610.0	2153.7	2920.1	3244.6
-25°	505.7	634.4	766.1	922.8	1101.3	1274.6	1397.5	1463.6	1897.9	2567.5	3116.1
-27.5°	488.9	614.2	745.7	893.6	1068.5	1249.0	1380.4	1467.7	1690.0	2164.3	2920.8
-30°	469.0	590.9	719.5	859.8	1028.3	1200.5	1351.2	1462.4	1527.3	1889.1	2497.3
-32.5°	446.4	564.0	689.6	827.4	982.9	1148.4	1307.8	1428.0	1517.0	1635.5	2098.7
-35°	424.9	536.6	656.5	790.9	934.3	1089.7	1239.3	1381.1	1492.8	1569.1	1757.3
-37.5°	405.9	506.6	621.8	751.2	889.3	1022.4	1165.2	1311.4	1439.4	1545.0	1611.6
-40°	384.2	474.4	586.1	708.4	831.4	954.2	1087.7	1227.3	1368.3	1484.2	1585.8
-42.5°	359.8	447.2	547.2	658.6	771.6	887.6	1006.4	1138.6	1271.5	1403.6	1510.8
-45°	332.8	416.8	505.8	605.8	708.3	817.8	930.4	1044.7	1170.4	1295.1	1412.3
-47.5°	302.5	383.1	467.9	549.6	644.8	745.3	850.4	958.2	1065.8	1180.3	1293.6
-50°	270.7	345.7	423.9	498.7	580.1	671.5	768.1	868.4	969.9	1065.9	1165.5
-52.5°	241.4	304.8	376.4	448.1	519.6	597.3	684.6	775.2	869.1	962.6	1046.8
-55°	209.7	266.7	326.2	393.9	462.2	529.4	600.2	682.2	762.0	848.0	930.8
-57.5°	186.0	227.9	280.1	336.3	400.2	465.3	528.0	589.7	659.3	731.3	804.3
-60°	167.1	196.5	236.4	284.3	334.6	394.7	456.3	513.3	565.8	619.4	685.5
-62.5°	149.6	173.7	201.5	234.9	278.6	323.2	376.2	430.6	481.6	530.6	579.9
-65°	141.0	153.7	174.7	199.6	224.7	262.7	303.3	344.9	391.7	436.6	482.4
-67.5°	132.1	144.1	155.7	169.3	191.9	214.0	236.0	272.6	309.3	342.3	375.6
-70°	125.2	134.7	145.1	155.2	165.4	178.4	198.4	218.9	238.7	260.7	288.6
-72.5°	118.5	126.9	135.4	143.5	152.8	162.1	171.7	181.7	196.2	213.2	228.4
-75°	111.5	118.9	126.3	133.7	141.3	149.1	157.1	166.0	175.0	184.1	192.2
-77.5°	104.5	111.4	117.7	123.9	130.5	137.4	144.6	151.8	159.2	166.8	173.1
-80°	97.4	103.9	109.4	114.8	120.4	126.2	132.3	138.6	144.8	151.0	156.6
-82.5°	90.0	95.6	100.6	105.4	110.3	115.0	120.3	125.7	131.2	136.5	141.2
-85°	82.9	87.2	91.5	95.7	99.9	104.1	108.9	113.6	118.1	122.6	126.6
-87.5°	77.6	81.6	85.2	88.7	92.1	95.4	99.6	103.6	107.2	110.7	114.0
-90°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.0	0.7	0.7



REPORT NUMBER: P731317 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-VHE

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	108.6	110.6	112.6	114.3	115.9	118.3	120.6	123.9	127.2	131.2	135.2
87.5°	1.2	1.2	1.2	1.0	0.7	0.7	0.7	0.7	0.7	1.0	1.3
85°	1.3	1.3	1.3	1.5	1.7	1.8	1.8	1.9	1.9	2.0	2.0
82.5°	1.6	1.7	1.7	1.9	2.0	2.0	2.0	2.0	2.0	2.3	2.7
80°	2.2	2.3	2.3	2.4	2.4	2.3	2.0	2.0	2.0	2.3	2.7
77.5°	2.8	2.8	2.7	2.6	2.4	2.2	2.0	2.0	2.0	2.0	2.1
75°	3.2	3.3	3.6	3.8	4.1	4.1	3.9	3.9	4.1	4.1	3.9
72.5°	7.3	7.6	7.6	8.4	9.3	9.6	9.8	10.4	11.2	12.2	13.4
70°	14.3	15.8	16.4	16.4	15.8	15.4	15.0	15.0	15.2	15.9	16.8
67.5°	20.6	21.2	21.0	20.7	19.5	18.0	16.3	15.4	15.8	16.6	17.6
65°	23.3	21.5	20.2	19.6	18.5	16.7	14.2	12.4	12.0	11.8	11.7
62.5°	21.0	17.7	16.1	15.2	13.6	12.1	9.7	7.9	7.2	6.8	6.7
60°	18.3	14.2	11.7	10.5	8.8	6.8	5.6	4.3	3.9	3.6	3.7
57.5°	15.9	11.8	8.9	8.3	6.8	5.3	4.3	3.2	2.9	2.7	2.8
55°	16.4	14.3	12.0	10.7	8.9	8.1	7.1	6.4	5.9	6.0	6.4
52.5°	23.1	24.8	21.9	21.1	26.2	26.3	21.7	28.8	33.1	36.4	37.3
50°	59.7	59.3	78.7	75.4	93.4	108.2	108.8	117.7	134.7	146.4	152.7
47.5°	158.4	176.2	198.9	222.7	241.4	264.7	288.2	305.8	310.1	310.5	313.6
45°	298.2	323.6	357.8	382.8	418.1	439.8	457.9	474.2	512.0	546.7	587.2
42.5°	416.4	444.2	479.5	530.5	567.6	666.8	818.5	855.8	861.2	892.0	937.0
40°	509.8	546.1	624.8	736.3	974.0	1187.1	1225.5	1257.6	1271.6	1254.5	1285.0
37.5°	622.8	708.0	885.1	1190.0	1302.7	1360.8	1401.6	1426.1	1455.9	1483.4	1498.4
35°	810.3	1047.9	1203.1	1366.0	1439.7	1469.1	1499.0	1529.3	1552.7	1583.1	1607.5
32.5°	1195.3	1459.8	1475.4	1515.6	1554.1	1592.3	1620.3	1649.1	1674.0	1713.5	1796.4
30°	1583.2	1640.9	1655.0	1658.6	1693.7	1739.5	1763.8	1821.9	1900.3	1990.2	2181.6
27.5°	1789.7	1829.4	1837.7	1841.6	1857.9	1912.1	2012.6	2091.9	2280.1	2508.6	3000.4
25°	2041.2	2069.4	2099.3	2098.0	2122.8	2218.9	2415.4	2582.7	3218.6	3813.6	5095.5
22.5°	2281.0	2366.3	2408.9	2465.9	2550.0	2724.8	3069.6	4038.2	5657.5	7724.2	10297.0
20°	2447.7	2562.5	2677.0	2835.9	3039.4	3402.1	4479.3	7377.6	10838.8	15861.2	20073.7
17.5°	2615.9	2745.6	2947.9	3193.2	3534.9	4752.8	7910.8	12832.0	19940.0	28856.3	36679.5
15°	2835.2	2989.1	3260.0	3610.2	4564.9	7164.7	12432.8	21387.4	32192.9	44726.7	57874.7
12.5°	2984.5	3196.6	3518.7	3970.9	5538.1	10407.1	18889.3	31165.0	46037.0	61830.0	82788.1
10°	3094.9	3348.5	3785.9	4723.5	7565.3	13986.1	24179.0	39499.0	59887.9	83957.7	107919.0
7.5°	3187.5	3529.1	4078.3	5259.7	9314.4	17409.4	30402.2	49022.9	73146.5	102149.4	130014.4
5°	3270.8	3723.6	4359.6	5837.7	10881.5	19888.0	34540.7	56135.5	84070.9	115746.9	146511.8
2.5°	3380.9	3905.7	4542.1	5996.8	11508.8	21261.3	37820.0	61878.9	91870.8	125191.8	158664.1
0°	3533.9	4024.1	4653.6	6098.5	11313.7	22121.8	39829.7	64761.3	95289.0	129158.8	164265.6
-2.5°	3654.1	4092.4	4718.6	6016.5	11218.3	21717.1	38922.7	63081.1	91942.6	124670.6	159690.1
-5°	3731.8	4141.4	4747.1	6047.1	10977.6	20170.3	36243.7	58678.8	85127.8	114671.1	147053.6
-7.5°	3777.3	4159.3	4717.6	5854.3	9884.2	18063.2	31475.2	50564.5	74291.4	101629.1	128391.0
-10°	3804.6	4147.6	4655.8	5581.5	8314.0	14679.6	24849.0	41027.5	61585.6	83614.0	105504.3
-12.5°	3814.8	4123.1	4568.7	5190.9	6665.9	11492.3	19780.7	31262.7	46523.1	64593.1	83882.1
-15°	3794.8	4087.5	4484.5	5023.2	6004.5	8615.2	13802.6	21611.7	32986.3	46782.7	60760.5
-17.5°	3720.2	4050.8	4359.9	4773.4	5351.0	6582.2	9739.4	14751.8	21688.3	30807.6	38871.9
-20°	3621.5	3981.4	4246.1	4611.6	5065.1	5628.6	6641.1	9700.2	13589.7	18869.2	24132.5



REPORT NUMBER: P731317 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-VHE

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3533.6	3862.9	4195.6	4446.5	4801.7	5172.1	5629.3	6504.4	8458.8	11094.6	14431.2
-25°	3452.5	3753.9	4095.3	4366.6	4567.0	4828.9	5115.3	5421.8	6085.8	6708.2	8317.9
-27.5°	3338.3	3650.5	3946.6	4236.2	4429.3	4548.2	4743.3	4933.9	5211.9	5459.2	5931.9
-30°	3205.4	3510.9	3792.6	4055.8	4253.6	4378.6	4475.4	4606.4	4753.5	4903.2	5106.4
-32.5°	2731.9	3346.9	3609.2	3846.7	4050.8	4197.7	4300.2	4386.3	4471.2	4567.0	4674.1
-35°	2213.3	2820.7	3412.5	3597.7	3790.6	3985.1	4137.1	4218.3	4292.1	4359.3	4424.8
-37.5°	1799.5	2228.0	2759.2	3264.0	3498.3	3694.8	3877.4	4019.3	4122.9	4185.9	4244.8
-40°	1637.6	1746.2	2154.6	2570.3	2970.1	3333.1	3518.8	3728.5	3898.9	3991.3	4055.4
-42.5°	1598.8	1648.7	1686.9	1950.2	2268.2	2574.3	2912.9	3249.1	3512.9	3688.8	3819.5
-45°	1514.0	1585.8	1642.7	1666.2	1680.6	1903.7	2165.9	2422.6	2718.9	3024.9	3302.7
-47.5°	1393.9	1487.1	1551.4	1601.7	1631.8	1641.2	1659.7	1717.3	1932.4	2158.5	2373.8
-50°	1259.9	1345.3	1422.3	1492.3	1533.9	1567.7	1600.0	1631.0	1657.2	1690.3	1720.1
-52.5°	1124.8	1203.2	1272.4	1333.9	1389.1	1442.3	1493.5	1531.8	1569.1	1609.2	1641.9
-55°	1004.7	1068.2	1126.2	1180.1	1229.9	1274.9	1321.1	1370.6	1421.8	1471.8	1510.7
-57.5°	876.1	936.9	991.8	1037.5	1077.6	1111.2	1153.7	1200.0	1248.1	1292.7	1326.6
-60°	746.5	800.2	850.5	894.8	932.8	964.0	1003.3	1042.6	1085.5	1123.6	1153.8
-62.5°	623.4	668.7	711.4	750.1	784.6	816.3	851.2	886.2	926.6	962.1	990.9
-65°	521.1	556.2	585.5	612.9	634.3	661.7	695.4	727.7	762.8	793.6	819.3
-67.5°	410.3	442.7	469.5	493.4	512.2	531.9	556.8	582.5	609.8	634.2	655.7
-70°	313.5	335.3	352.7	370.6	389.8	408.5	428.5	450.5	473.4	493.6	511.3
-72.5°	241.8	252.6	262.8	277.4	290.3	303.3	315.9	331.7	348.6	363.9	377.8
-75°	199.8	206.4	214.2	221.1	227.1	234.1	241.1	251.3	262.4	272.9	282.8
-77.5°	179.3	184.1	188.0	191.2	194.0	198.2	202.7	210.3	218.5	227.4	236.3
-80°	161.8	165.5	168.8	171.6	174.2	177.7	181.2	187.9	195.0	202.5	209.9
-82.5°	145.7	148.6	151.3	153.9	156.3	159.3	162.3	168.1	174.1	180.4	186.7
-85°	130.6	133.0	135.4	137.5	139.5	142.1	144.6	149.6	154.7	160.0	165.3
-87.5°	117.3	119.5	121.8	123.7	125.6	127.8	130.0	134.4	138.8	143.2	147.7
-90°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7



REPORT NUMBER: P731317 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-VHE

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	135.6	135.9	136.3	136.6	136.3	135.9	135.6	135.2	131.2	127.2	123.9
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.0	0.7	0.7
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9
82.5°	2.3	2.0	2.3	2.7	2.3	2.0	2.3	2.7	2.3	2.0	2.0
80°	2.4	2.0	2.3	2.7	2.3	2.0	2.4	2.7	2.3	2.0	2.0
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0
75°	3.3	2.7	2.4	2.0	2.4	2.7	3.3	3.9	4.1	4.1	3.9
72.5°	13.7	13.7	13.9	14.0	13.9	13.7	13.7	13.4	12.2	11.2	10.4
70°	17.4	17.8	18.0	18.0	18.0	17.8	17.4	16.8	15.9	15.2	15.0
67.5°	17.7	17.4	17.0	16.7	17.0	17.4	17.7	17.6	16.6	15.8	15.4
65°	11.1	10.4	9.2	8.0	9.2	10.4	11.1	11.7	11.8	12.0	12.4
62.5°	6.5	6.2	6.0	6.0	6.0	6.2	6.5	6.7	6.8	7.2	7.9
60°	3.8	4.0	4.0	4.0	4.0	4.0	3.8	3.7	3.6	3.9	4.3
57.5°	2.9	3.2	3.6	4.0	3.6	3.2	2.9	2.8	2.7	2.9	3.2
55°	6.8	7.6	7.9	8.0	7.9	7.6	6.8	6.4	6.0	5.9	6.4
52.5°	36.0	34.2	32.6	31.3	32.6	34.2	36.0	37.3	36.4	33.1	28.8
50°	155.5	159.5	161.4	161.2	161.4	159.5	155.5	152.7	146.4	134.7	117.7
47.5°	320.3	322.5	320.6	315.7	320.6	322.5	320.3	313.6	310.5	310.1	305.8
45°	636.7	609.1	560.1	516.9	560.1	609.1	636.7	587.2	546.7	512.0	474.2
42.5°	996.7	1029.7	1054.5	1065.8	1054.5	1029.7	996.7	937.0	892.0	861.2	855.8
40°	1250.7	1215.5	1208.4	1213.7	1208.4	1215.5	1250.7	1285.0	1254.5	1271.6	1257.6
37.5°	1502.2	1534.2	1558.0	1519.5	1558.0	1534.2	1502.2	1498.4	1483.4	1455.9	1426.1
35°	1664.1	1778.2	1911.9	1952.5	1911.9	1778.2	1664.1	1607.5	1583.1	1552.7	1529.3
32.5°	1935.0	2055.4	2107.6	2120.3	2107.6	2055.4	1935.0	1796.4	1713.5	1674.0	1649.1
30°	2366.0	2486.3	2507.9	2525.3	2507.9	2486.3	2366.0	2181.6	1990.2	1900.3	1821.9
27.5°	3326.8	3595.7	3659.5	3704.4	3659.5	3595.7	3326.8	3000.4	2508.6	2280.1	2091.9
25°	6107.5	6807.0	7263.9	7219.6	7263.9	6807.0	6107.5	5095.5	3813.6	3218.6	2582.7
22.5°	12874.7	14247.8	14980.4	14967.5	14980.4	14247.8	12874.7	10297.0	7724.2	5657.5	4038.2
20°	26075.1	30137.9	32337.0	32086.5	32337.0	30137.9	26075.1	20073.7	15861.2	10838.8	7377.6
17.5°	45466.7	53313.7	58795.9	59020.5	58795.9	53313.7	45466.7	36679.5	28856.3	19940.0	12832.0
15°	70305.0	81948.1	90167.5	90166.4	90167.5	81948.1	70305.0	57874.7	44726.7	32192.9	21387.4
12.5°	100534.7	114452.1	123856.3	125266.6	123856.3	114452.1	100534.7	82788.1	61830.0	46037.0	31165.0
10°	129547.2	145311.4	159528.5	163442.9	159528.5	145311.4	129547.2	107919.0	83957.7	59887.9	39499.0
7.5°	154104.0	178902.3	191852.7	195931.5	191852.7	178902.3	154104.0	130014.4	102149.4	73146.5	49022.9
5°	178208.0	199673.0	210546.0	213693.7	210546.0	199673.0	178208.0	146511.8	115746.9	84070.9	56135.5
2.5°	190887.5	210590.2	225872.3	234735.0	225872.3	210590.2	190887.5	158664.1	125191.8	91870.8	61878.9
0°	195658.1	214377.2	234871.9	248831.1	234871.9	214377.2	195658.1	164265.6	129158.8	95289.0	64761.3
-2.5°	190886.4	208999.4	224102.8	231455.9	224102.8	208999.4	190886.4	159690.1	124670.6	91942.6	63081.1
-5°	176422.1	197727.1	208723.5	211507.4	208723.5	197727.1	176422.1	147053.6	114671.1	85127.8	58678.8
-7.5°	153320.6	173810.6	187292.9	190329.6	187292.9	173810.6	153320.6	128391.0	101629.1	74291.4	50564.5
-10°	127601.8	145103.8	154199.3	156448.5	154199.3	145103.8	127601.8	105504.3	83614.0	61585.6	41027.5
-12.5°	99149.5	111984.6	121269.2	122529.4	121269.2	111984.6	99149.5	83882.1	64593.1	46523.1	31262.7
-15°	73801.5	82290.0	89775.3	90635.4	89775.3	82290.0	73801.5	60760.5	46782.7	32986.3	21611.7
-17.5°	49443.2	56470.9	60659.2	61867.6	60659.2	56470.9	49443.2	38871.9	30807.6	21688.3	14751.8
-20°	29624.6	34653.5	37444.6	37549.5	37444.6	34653.5	29624.6	24132.5	18869.2	13589.7	9700.2



REPORT NUMBER: P731317 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-VHE

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	17186.7	19984.9	21461.7	21433.0	21461.7	19984.9	17186.7	14431.2	11094.6	8458.8	6504.4
-25°	9911.9	11137.1	11626.0	11643.4	11626.0	11137.1	9911.9	8317.9	6708.2	6085.8	5421.8
-27.5°	6311.3	6592.6	6705.3	6723.3	6705.3	6592.6	6311.3	5931.9	5459.2	5211.9	4933.9
-30°	5291.6	5456.0	5531.7	5552.9	5531.7	5456.0	5291.6	5106.4	4903.2	4753.5	4606.4
-32.5°	4774.6	4865.2	4926.4	4917.4	4926.4	4865.2	4774.6	4674.1	4567.0	4471.2	4386.3
-35°	4488.8	4544.9	4579.2	4595.7	4579.2	4544.9	4488.8	4424.8	4359.3	4292.1	4218.3
-37.5°	4303.5	4353.6	4386.1	4395.8	4386.1	4353.6	4303.5	4244.8	4185.9	4122.9	4019.3
-40°	4110.6	4152.3	4179.0	4188.7	4179.0	4152.3	4110.6	4055.4	3991.3	3898.9	3728.5
-42.5°	3902.4	3947.3	3968.6	3968.8	3968.6	3947.3	3902.4	3819.5	3688.8	3512.9	3249.1
-45°	3530.6	3668.7	3737.8	3741.0	3737.8	3668.7	3530.6	3302.7	3024.9	2718.9	2422.6
-47.5°	2569.7	2706.1	2815.8	2897.0	2815.8	2706.1	2569.7	2373.8	2158.5	1932.4	1717.3
-50°	1746.2	1755.1	1755.7	1747.9	1755.7	1755.1	1746.2	1720.1	1690.3	1657.2	1631.0
-52.5°	1667.4	1676.7	1683.5	1687.3	1683.5	1676.7	1667.4	1641.9	1609.2	1569.1	1531.8
-55°	1539.4	1551.2	1556.0	1554.1	1556.0	1551.2	1539.4	1510.7	1471.8	1421.8	1370.6
-57.5°	1349.3	1357.1	1360.7	1359.6	1360.7	1357.1	1349.3	1326.6	1292.7	1248.1	1200.0
-60°	1172.2	1178.0	1181.3	1181.1	1181.3	1178.0	1172.2	1153.8	1123.6	1085.5	1042.6
-62.5°	1007.1	1012.3	1016.0	1016.5	1016.0	1012.3	1007.1	990.9	962.1	926.6	886.2
-65°	832.1	836.0	838.5	838.0	838.5	836.0	832.1	819.3	793.6	762.8	727.7
-67.5°	665.1	667.9	670.2	670.1	670.2	667.9	665.1	655.7	634.2	609.8	582.5
-70°	516.9	517.2	518.3	517.6	518.3	517.2	516.9	511.3	493.6	473.4	450.5
-72.5°	381.0	380.6	380.4	379.0	380.4	380.6	381.0	377.8	363.9	348.6	331.7
-75°	283.8	282.9	281.9	280.4	281.9	282.9	283.8	282.8	272.9	262.4	251.3
-77.5°	237.3	237.3	235.7	233.8	235.7	237.3	237.3	236.3	227.4	218.5	210.3
-80°	210.4	210.2	209.4	208.5	209.4	210.2	210.4	209.9	202.5	195.0	187.9
-82.5°	187.3	187.7	187.5	187.2	187.5	187.7	187.3	186.7	180.4	174.1	168.1
-85°	165.9	166.4	166.2	165.9	166.2	166.4	165.9	165.3	160.0	154.7	149.6
-87.5°	148.1	148.5	148.5	148.5	148.5	148.5	148.1	147.7	143.2	138.8	134.4
-90°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7



REPORT NUMBER: P731317 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-VHE

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	120.6	118.3	115.9	114.3	112.6	110.6	108.6	105.6	102.6	99.6	96.6
87.5°	0.7	0.7	0.7	1.0	1.2	1.2	1.2	1.2	1.2	1.2	1.3
85°	1.8	1.8	1.7	1.5	1.3	1.3	1.3	1.5	1.7	1.6	1.6
82.5°	2.0	2.0	2.0	1.9	1.7	1.7	1.6	1.8	2.0	2.0	2.0
80°	2.0	2.3	2.4	2.4	2.3	2.3	2.2	2.1	2.0	2.0	2.1
77.5°	2.0	2.2	2.4	2.6	2.7	2.8	2.8	2.7	2.6	2.7	2.7
75°	3.9	4.1	4.1	3.8	3.6	3.3	3.2	3.1	3.1	3.2	3.3
72.5°	9.8	9.6	9.3	8.4	7.6	7.6	7.3	6.6	5.5	4.1	3.3
70°	15.0	15.4	15.8	16.4	16.4	15.8	14.3	12.6	10.8	8.9	6.9
67.5°	16.3	18.0	19.5	20.7	21.0	21.2	20.6	19.6	19.3	17.7	12.8
65°	14.2	16.7	18.5	19.6	20.2	21.5	23.3	23.6	25.6	25.9	21.2
62.5°	9.7	12.1	13.6	15.2	16.1	17.7	21.0	24.4	29.3	31.3	27.1
60°	5.6	6.8	8.8	10.5	11.7	14.2	18.3	23.7	30.2	30.9	29.9
57.5°	4.3	5.3	6.8	8.3	8.9	11.8	15.9	22.3	28.8	30.0	28.2
55°	7.1	8.1	8.9	10.7	12.0	14.3	16.4	21.6	28.0	30.6	30.8
52.5°	21.7	26.3	26.2	21.1	21.9	24.8	23.1	27.3	31.5	35.0	36.3
50°	108.8	108.2	93.4	75.4	78.7	59.3	59.7	52.6	46.7	48.5	46.6
47.5°	288.2	264.7	241.4	222.7	198.9	176.2	158.4	125.1	115.0	81.5	80.8
45°	457.9	439.8	418.1	382.8	357.8	323.6	298.2	264.9	225.3	191.7	136.7
42.5°	818.5	666.8	567.6	530.5	479.5	444.2	416.4	387.7	358.2	316.1	264.8
40°	1225.5	1187.1	974.0	736.3	624.8	546.1	509.8	484.6	469.4	437.1	388.2
37.5°	1401.6	1360.8	1302.7	1190.0	885.1	708.0	622.8	574.0	570.2	540.2	496.9
35°	1499.0	1469.1	1439.7	1366.0	1203.1	1047.9	810.3	696.6	641.5	628.6	593.1
32.5°	1620.3	1592.3	1554.1	1515.6	1475.4	1459.8	1195.3	917.1	730.8	694.4	663.0
30°	1763.8	1739.5	1693.7	1658.6	1655.0	1640.9	1583.2	1244.3	942.9	751.5	729.8
27.5°	2012.6	1912.1	1857.9	1841.6	1837.7	1829.4	1789.7	1630.1	1194.3	911.0	786.9
25°	2415.4	2218.9	2122.8	2098.0	2099.3	2069.4	2041.2	1909.2	1584.5	1104.1	845.9
22.5°	3069.6	2724.8	2550.0	2465.9	2408.9	2366.3	2281.0	2157.8	1989.2	1380.9	1010.9
20°	4479.3	3402.1	3039.4	2835.9	2677.0	2562.5	2447.7	2334.4	2144.7	1717.0	1184.9
17.5°	7910.8	4752.8	3534.9	3193.2	2947.9	2745.6	2615.9	2471.0	2284.3	1983.2	1331.6
15°	12432.8	7164.7	4564.9	3610.2	3260.0	2989.1	2835.2	2650.3	2453.1	2148.6	1546.9
12.5°	18889.3	10407.1	5538.1	3970.9	3518.7	3196.6	2984.5	2832.6	2619.4	2321.1	1807.9
10°	24179.0	13986.1	7565.3	4723.5	3785.9	3348.5	3094.9	2931.0	2737.8	2479.0	2051.7
7.5°	30402.2	17409.4	9314.4	5259.7	4078.3	3529.1	3187.5	3000.5	2816.0	2541.0	2185.0
5°	34540.7	19888.0	10881.5	5837.7	4359.6	3723.6	3270.8	3050.5	2855.0	2560.6	2274.8
2.5°	37820.0	21261.3	11508.8	5996.8	4542.1	3905.7	3380.9	3112.6	2882.8	2584.3	2343.2
0°	39829.7	22121.8	11313.7	6098.5	4653.6	4024.1	3533.9	3181.5	2895.0	2599.3	2380.1
-2.5°	38922.7	21717.1	11218.3	6016.5	4718.6	4092.4	3654.1	3336.2	2962.2	2621.1	2396.0
-5°	36243.7	20170.3	10977.6	6047.1	4747.1	4141.4	3731.8	3434.5	3024.3	2647.2	2381.2
-7.5°	31475.2	18063.2	9884.2	5854.3	4717.6	4159.3	3777.3	3483.9	3102.2	2728.8	2364.2
-10°	24849.0	14679.6	8314.0	5581.5	4655.8	4147.6	3804.6	3488.0	3131.9	2787.7	2306.9
-12.5°	19780.7	11492.3	6665.9	5190.9	4568.7	4123.1	3814.8	3462.7	3143.1	2842.1	2237.9
-15°	13802.6	8615.2	6004.5	5023.2	4484.5	4087.5	3794.8	3415.3	3131.3	2866.3	2110.1
-17.5°	9739.4	6582.2	5351.0	4773.4	4359.9	4050.8	3720.2	3379.2	3095.2	2736.0	1913.1
-20°	6641.1	5628.6	5065.1	4611.6	4246.1	3981.4	3621.5	3325.5	3024.2	2463.1	1768.9



REPORT NUMBER: P731317 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-VHE

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	5629.3	5172.1	4801.7	4446.5	4195.6	3862.9	3533.6	3244.6	2920.1	2153.7	1610.0
-25°	5115.3	4828.9	4567.0	4366.6	4095.3	3753.9	3452.5	3116.1	2567.5	1897.9	1463.6
-27.5°	4743.3	4548.2	4429.3	4236.2	3946.6	3650.5	3338.3	2920.8	2164.3	1690.0	1467.7
-30°	4475.4	4378.6	4253.6	4055.8	3792.6	3510.9	3205.4	2497.3	1889.1	1527.3	1462.4
-32.5°	4300.2	4197.7	4050.8	3846.7	3609.2	3346.9	2731.9	2098.7	1635.5	1517.0	1428.0
-35°	4137.1	3985.1	3790.6	3597.7	3412.5	2820.7	2213.3	1757.3	1569.1	1492.8	1381.1
-37.5°	3877.4	3694.8	3498.3	3264.0	2759.2	2228.0	1799.5	1611.6	1545.0	1439.4	1311.4
-40°	3518.8	3333.1	2970.1	2570.3	2154.6	1746.2	1637.6	1585.8	1484.2	1368.3	1227.3
-42.5°	2912.9	2574.3	2268.2	1950.2	1686.9	1648.7	1598.8	1510.8	1403.6	1271.5	1138.6
-45°	2165.9	1903.7	1680.6	1666.2	1642.7	1585.8	1514.0	1412.3	1295.1	1170.4	1044.7
-47.5°	1659.7	1641.2	1631.8	1601.7	1551.4	1487.1	1393.9	1293.6	1180.3	1065.8	958.2
-50°	1600.0	1567.7	1533.9	1492.3	1422.3	1345.3	1259.9	1165.5	1065.9	969.9	868.4
-52.5°	1493.5	1442.3	1389.1	1333.9	1272.4	1203.2	1124.8	1046.8	962.6	869.1	775.2
-55°	1321.1	1274.9	1229.9	1180.1	1126.2	1068.2	1004.7	930.8	848.0	762.0	682.2
-57.5°	1153.7	1111.2	1077.6	1037.5	991.8	936.9	876.1	804.3	731.3	659.3	589.7
-60°	1003.3	964.0	932.8	894.8	850.5	800.2	746.5	685.5	619.4	565.8	513.3
-62.5°	851.2	816.3	784.6	750.1	711.4	668.7	623.4	579.9	530.6	481.6	430.6
-65°	695.4	661.7	634.3	612.9	585.5	556.2	521.1	482.4	436.6	391.7	344.9
-67.5°	556.8	531.9	512.2	493.4	469.5	442.7	410.3	375.6	342.3	309.3	272.6
-70°	428.5	408.5	389.8	370.6	352.7	335.3	313.5	288.6	260.7	238.7	218.9
-72.5°	315.9	303.3	290.3	277.4	262.8	252.6	241.8	228.4	213.2	196.2	181.7
-75°	241.1	234.1	227.1	221.1	214.2	206.4	199.8	192.2	184.1	175.0	166.0
-77.5°	202.7	198.2	194.0	191.2	188.0	184.1	179.3	173.1	166.8	159.2	151.8
-80°	181.2	177.7	174.2	171.6	168.8	165.5	161.8	156.6	151.0	144.8	138.6
-82.5°	162.3	159.3	156.3	153.9	151.3	148.6	145.7	141.2	136.5	131.2	125.7
-85°	144.6	142.1	139.5	137.5	135.4	133.0	130.6	126.6	122.6	118.1	113.6
-87.5°	130.0	127.8	125.6	123.7	121.8	119.5	117.3	114.0	110.7	107.2	103.6
-90°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.3



REPORT NUMBER: P731317 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	92.6	88.6	85.6	82.6	79.3	75.9	72.3	68.6	64.0	59.3	53.7
87.5°	1.3	1.3	1.5	1.7	1.7	1.6	1.6	1.6	1.7	1.8	2.0
85°	1.5	1.5	1.7	2.0	2.0	2.0	1.9	1.9	2.1	2.3	2.3
82.5°	2.0	2.0	1.9	2.0	2.2	2.3	2.3	2.2	2.5	2.7	2.6
80°	2.3	2.4	2.3	2.2	2.4	2.7	2.6	2.5	2.7	2.9	2.9
77.5°	2.8	2.8	2.7	2.6	2.6	2.7	2.8	2.8	3.0	3.2	3.2
75°	3.3	3.1	2.8	2.8	2.9	2.8	3.0	3.2	3.4	3.4	3.5
72.5°	3.3	3.3	3.1	3.0	3.4	3.5	3.5	3.5	3.9	4.0	3.9
70°	5.0	3.9	3.7	3.8	4.1	4.3	4.3	4.4	4.4	4.6	4.6
67.5°	8.1	6.7	5.5	4.8	4.8	5.1	5.3	5.5	5.6	5.3	5.4
65°	15.5	11.2	7.9	6.9	6.1	6.1	6.2	6.8	6.8	6.7	6.1
62.5°	22.3	17.2	13.2	10.0	8.3	8.3	7.3	8.2	8.2	8.2	7.4
60°	28.3	23.1	19.1	15.7	12.7	11.2	10.5	9.7	10.0	9.7	9.0
57.5°	28.5	28.1	26.3	22.2	19.4	16.2	14.5	13.2	12.0	11.8	10.6
55°	29.0	29.4	32.8	30.4	27.5	23.3	20.3	17.9	15.0	14.2	12.3
52.5°	34.6	35.6	38.3	40.2	38.1	32.1	29.0	23.0	20.7	16.9	14.8
50°	44.4	47.9	48.2	51.6	49.9	46.0	38.5	32.3	26.9	20.6	17.4
47.5°	69.3	72.4	66.3	68.0	64.9	62.0	52.9	43.5	33.5	26.8	20.2
45°	131.7	113.3	102.7	93.9	85.8	82.5	70.3	55.9	45.0	33.4	23.0
42.5°	213.6	185.9	164.5	124.9	120.3	106.5	91.3	74.9	57.3	40.2	27.8
40°	328.9	276.2	239.7	197.6	162.9	133.8	118.2	96.3	70.5	48.8	33.9
37.5°	437.5	370.2	323.8	272.6	216.4	178.3	147.9	119.3	86.1	60.8	40.2
35°	524.8	457.9	395.1	342.3	285.4	223.0	179.8	144.9	106.3	73.4	46.6
32.5°	604.1	532.9	461.7	402.1	340.4	266.5	217.0	170.4	126.6	86.4	53.3
30°	674.2	606.2	525.0	451.3	385.7	312.2	252.2	194.3	147.0	99.8	61.0
27.5°	750.8	682.2	589.4	504.8	425.6	351.8	280.3	216.4	167.3	113.3	71.2
25°	822.8	753.0	661.1	564.8	465.9	383.4	306.5	237.0	186.3	127.1	80.8
22.5°	871.1	812.7	726.9	628.3	510.3	414.3	332.1	259.5	199.2	139.7	89.8
20°	910.0	865.2	785.0	676.3	558.6	450.7	357.7	277.7	211.2	151.1	98.2
17.5°	965.5	907.6	826.3	716.7	603.0	487.5	382.4	294.7	222.2	161.3	106.0
15°	1101.9	944.6	866.4	754.6	637.2	518.8	406.4	310.8	232.2	170.3	113.0
12.5°	1243.4	980.7	905.2	787.5	662.4	545.6	429.4	325.8	241.2	179.5	119.3
10°	1376.2	1012.1	941.3	817.4	684.4	568.2	451.2	342.3	254.6	188.9	124.9
7.5°	1488.5	1040.7	975.3	844.5	704.2	588.5	473.1	362.8	268.0	197.5	129.8
5°	1583.2	1067.0	1008.3	878.0	727.7	607.3	492.4	381.8	280.6	205.3	134.1
2.5°	1647.9	1090.8	1038.0	909.2	748.2	622.9	509.0	399.1	292.2	212.1	137.7
0°	1690.7	1112.5	1063.2	935.9	765.4	635.5	522.9	414.3	302.4	217.8	140.6
-2.5°	1704.2	1135.1	1083.8	958.6	792.9	652.3	533.1	421.4	309.4	224.2	145.4
-5°	1694.5	1155.9	1100.6	976.7	816.0	665.7	540.6	426.2	314.8	229.3	149.3
-7.5°	1665.6	1179.3	1114.7	990.2	833.8	675.5	545.3	428.8	318.7	233.1	152.4
-10°	1616.2	1202.8	1125.9	995.2	836.5	680.5	547.5	429.1	321.1	235.5	154.6
-12.5°	1554.1	1224.3	1133.0	994.3	833.2	681.5	549.5	428.2	321.8	236.3	155.7
-15°	1474.7	1251.5	1141.9	988.1	825.8	679.4	547.8	424.9	319.8	234.9	155.8
-17.5°	1370.5	1276.8	1147.6	980.2	815.7	674.2	542.2	418.6	316.0	231.1	154.4
-20°	1367.9	1287.7	1144.5	964.9	801.2	664.8	532.8	409.3	310.5	225.9	151.8



REPORT NUMBER: P731317 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1386.9	1283.2	1126.5	944.6	783.9	651.4	520.4	397.0	303.1	219.4	148.3
-25°	1397.5	1274.6	1101.3	922.8	766.1	634.4	505.7	384.1	293.8	211.5	143.8
-27.5°	1380.4	1249.0	1068.5	893.6	745.7	614.2	488.9	374.9	285.4	202.2	138.4
-30°	1351.2	1200.5	1028.3	859.8	719.5	590.9	469.0	363.8	276.2	194.7	132.0
-32.5°	1307.8	1148.4	982.9	827.4	689.6	564.0	446.4	350.5	265.4	188.3	127.9
-35°	1239.3	1089.7	934.3	790.9	656.5	536.6	424.9	335.0	253.1	180.2	124.4
-37.5°	1165.2	1022.4	889.3	751.2	621.8	506.6	405.9	318.7	239.4	170.4	120.4
-40°	1087.7	954.2	831.4	708.4	586.1	474.4	384.2	300.2	226.0	159.0	115.6
-42.5°	1006.4	887.6	771.6	658.6	547.2	447.2	359.8	279.0	210.0	150.4	109.9
-45°	930.4	817.8	708.3	605.8	505.8	416.8	332.8	255.5	192.1	143.0	105.7
-47.5°	850.4	745.3	644.8	549.6	467.9	383.1	302.5	233.6	172.9	134.5	104.0
-50°	768.1	671.5	580.1	498.7	423.9	345.7	270.7	210.1	161.5	124.5	101.9
-52.5°	684.6	597.3	519.6	448.1	376.4	304.8	241.4	185.7	149.2	119.0	99.5
-55°	600.2	529.4	462.2	393.9	326.2	266.7	209.7	170.2	136.0	115.3	96.8
-57.5°	528.0	465.3	400.2	336.3	280.1	227.9	186.0	154.0	129.4	111.3	94.9
-60°	456.3	394.7	334.6	284.3	236.4	196.5	167.1	140.5	124.5	107.3	92.6
-62.5°	376.2	323.2	278.6	234.9	201.5	173.7	149.6	133.8	119.0	104.1	90.0
-65°	303.3	262.7	224.7	199.6	174.7	153.7	141.0	126.7	114.2	100.7	87.2
-67.5°	236.0	214.0	191.9	169.3	155.7	144.1	132.1	120.7	109.4	96.9	84.4
-70°	198.4	178.4	165.4	155.2	145.1	134.7	125.2	115.2	104.4	93.2	81.3
-72.5°	171.7	162.1	152.8	143.5	135.4	126.9	118.5	109.5	99.5	89.3	78.0
-75°	157.1	149.1	141.3	133.7	126.3	118.9	111.5	103.4	94.4	85.2	74.6
-77.5°	144.6	137.4	130.5	123.9	117.7	111.4	104.5	97.2	89.1	80.7	70.9
-80°	132.3	126.2	120.4	114.8	109.4	103.9	97.4	90.9	83.6	76.1	67.1
-82.5°	120.3	115.0	110.3	105.4	100.6	95.6	90.0	84.5	77.9	71.3	63.5
-85°	108.9	104.1	99.9	95.7	91.5	87.2	82.9	78.6	73.0	67.3	60.3
-87.5°	99.6	95.4	92.1	88.7	85.2	81.6	77.6	73.6	68.5	63.4	57.0
-90°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.7



REPORT NUMBER: P731317 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	48.0	40.3	32.6	23.6	14.7	8.3	2.0
87.5°	2.2	2.2	2.2	2.2	2.1	2.2	2.0
85°	2.4	2.4	2.5	2.3	2.2	2.3	2.0
82.5°	2.6	2.7	2.7	2.5	2.3	2.5	2.0
80°	2.8	2.9	2.9	2.7	2.5	2.6	2.0
77.5°	3.1	3.2	3.1	2.8	2.6	2.8	2.0
75°	3.5	3.5	3.4	3.0	2.8	3.0	2.0
72.5°	3.9	3.9	3.7	3.2	2.9	3.1	2.0
70°	4.3	4.3	4.1	3.4	3.1	3.3	2.0
67.5°	5.1	4.7	4.5	3.8	3.3	3.5	2.0
65°	6.0	5.4	4.9	4.2	3.5	3.6	2.0
62.5°	6.9	6.3	5.4	4.6	3.7	3.8	2.0
60°	7.9	7.2	5.8	5.0	3.9	4.0	2.0
57.5°	9.4	8.1	6.7	5.4	4.4	4.2	2.0
55°	10.9	9.1	7.6	5.8	4.8	4.3	2.0
52.5°	12.5	10.2	8.6	6.3	5.3	4.5	2.0
50°	14.1	11.7	9.6	6.7	5.8	4.7	2.0
47.5°	15.9	13.3	10.6	7.3	6.3	4.9	2.0
45°	18.4	14.9	11.6	8.0	6.8	5.1	2.0
42.5°	20.9	16.5	12.6	8.8	7.3	5.3	2.0
40°	23.7	18.2	13.8	9.8	7.9	5.4	2.0
37.5°	26.7	20.0	15.2	10.9	8.4	5.6	2.0
35°	29.7	22.2	16.5	12.0	8.9	5.8	2.0
32.5°	33.6	24.7	17.9	13.1	9.5	6.0	2.0
30°	39.1	27.1	19.2	14.2	10.0	6.2	2.0
27.5°	44.6	29.6	20.9	15.3	10.6	6.4	2.0
25°	49.9	32.0	22.7	16.4	11.1	6.5	2.0
22.5°	55.2	34.4	24.4	17.5	11.7	6.7	2.0
20°	60.2	37.0	26.0	18.6	12.2	6.9	2.0
17.5°	65.0	39.4	27.6	19.6	12.7	7.0	2.0
15°	69.3	41.7	29.2	20.7	13.3	7.2	2.0
12.5°	73.3	43.8	30.7	21.7	13.8	7.4	2.0
10°	76.9	45.9	32.2	22.6	14.3	7.5	2.0
7.5°	80.2	47.8	33.6	23.5	14.7	7.6	2.0
5°	83.2	49.5	34.9	24.4	15.2	7.8	2.0
2.5°	85.7	51.1	36.1	25.2	15.6	7.9	2.0
0°	87.9	52.6	37.3	26.0	16.0	8.0	2.0
-2.5°	90.7	54.8	39.0	27.2	16.7	8.3	2.0
-5°	93.1	56.9	40.5	28.2	17.4	8.6	2.0
-7.5°	95.1	58.8	42.0	29.3	18.0	8.9	2.0
-10°	96.6	60.5	43.3	30.2	18.6	9.2	2.0
-12.5°	97.6	62.0	44.6	31.1	19.2	9.5	2.0
-15°	98.2	63.4	45.7	31.9	19.7	9.8	2.0
-17.5°	98.3	64.5	46.8	32.7	20.2	10.0	2.0
-20°	97.9	65.5	47.7	33.3	20.7	10.2	2.0



REPORT NUMBER: P731317 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	97.2	66.2	48.4	33.9	21.1	10.4	2.0
-25°	95.9	66.9	49.1	34.4	21.4	10.6	2.0
-27.5°	94.1	67.5	49.6	34.8	21.7	10.8	2.0
-30°	91.8	67.8	50.0	35.1	22.0	10.9	2.0
-32.5°	89.0	67.9	50.5	35.3	22.2	11.1	2.0
-35°	88.0	67.9	50.8	35.4	22.4	11.2	2.0
-37.5°	87.7	67.8	51.0	35.5	22.5	11.3	2.0
-40°	87.2	68.0	51.2	35.4	22.5	11.3	2.0
-42.5°	86.4	67.9	51.2	35.3	22.6	11.4	2.0
-45°	85.3	67.7	51.1	35.3	22.5	11.4	2.0
-47.5°	84.0	67.4	50.9	35.1	22.4	11.4	2.0
-50°	83.0	66.8	50.5	35.0	22.3	11.4	2.0
-52.5°	81.9	66.2	50.0	34.9	22.1	11.3	2.0
-55°	80.7	65.2	49.4	34.7	21.9	11.3	2.0
-57.5°	79.2	64.0	48.6	34.3	21.6	11.2	2.0
-60°	77.5	62.7	47.8	33.9	21.3	11.1	2.0
-62.5°	75.6	61.2	47.0	33.4	20.9	10.9	2.0
-65°	73.6	59.6	46.2	32.9	20.6	10.8	2.0
-67.5°	71.4	58.0	45.2	32.2	20.2	10.6	2.0
-70°	69.1	56.4	44.1	31.5	19.7	10.4	2.0
-72.5°	66.6	54.6	42.9	30.7	19.2	10.2	2.0
-75°	64.0	52.6	41.6	29.9	18.7	10.0	2.0
-77.5°	61.2	50.6	40.3	29.0	18.1	9.8	2.0
-80°	58.3	48.6	38.9	28.1	17.5	9.5	2.0
-82.5°	55.8	46.6	37.5	27.0	16.8	9.2	2.0
-85°	53.3	44.6	35.9	26.0	16.1	9.0	2.0
-87.5°	50.7	42.5	34.3	24.8	15.4	8.7	2.0
-90°	2.0	2.0	2.0	2.0	2.0	2.0	2.0

(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

