

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: P735955 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-70-4S-VHE**

Issue Date: 1/29/2024

Test Information

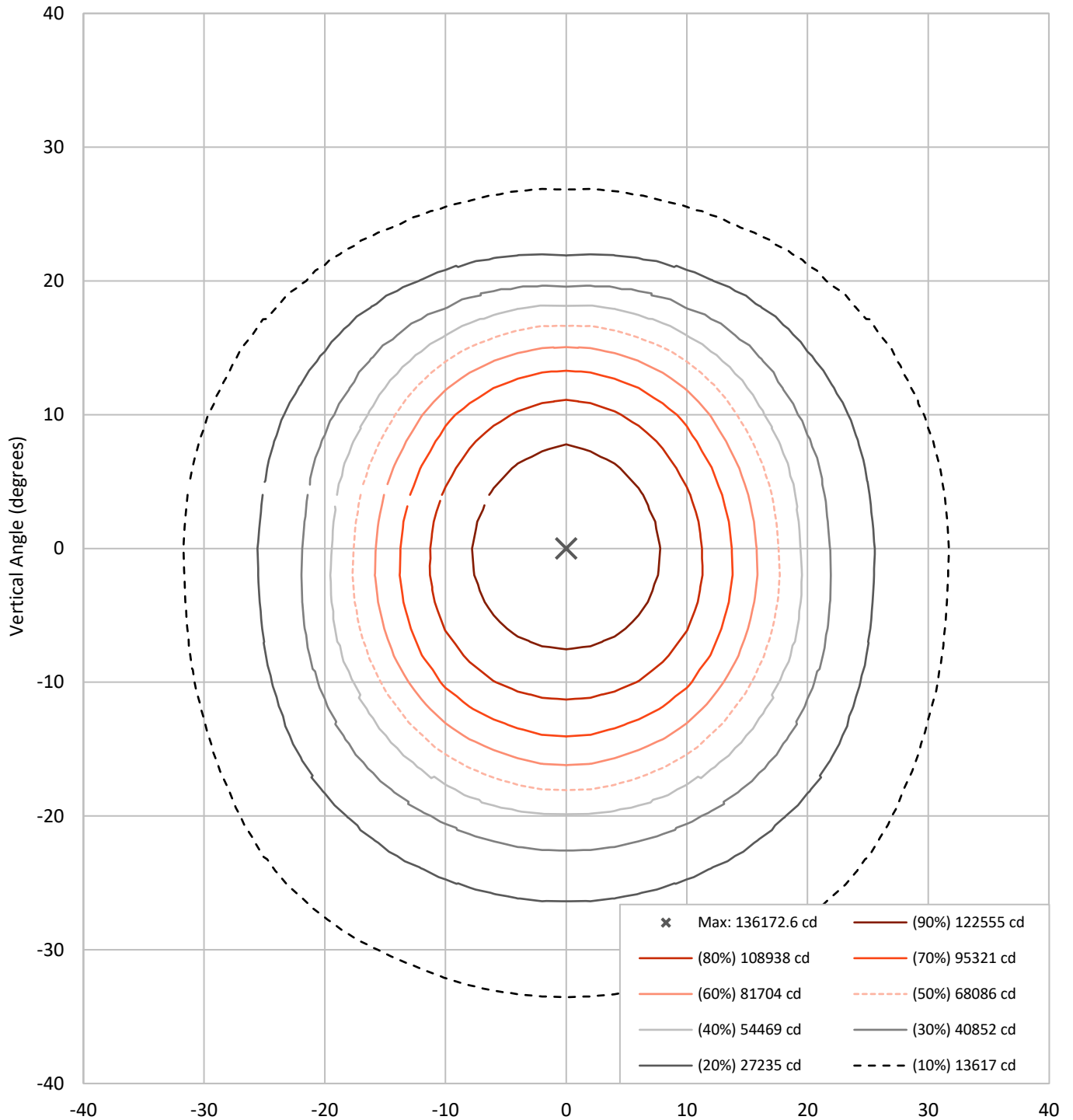
Test Method: LM-79-08
Report Number: P735955 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-40-70-4S-VHE
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 4S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	56487.1 lumens	Max Intensity:	136172.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	163.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	35.2°H x 34.7°V	Field Angle (10%):	63.4°H x 60.3°V
Beam Lumens:	30318.3 lumens	Field Lumens:	49337 lumens
Beam Efficiency:	53.7%	Field Efficiency:	87.3%
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





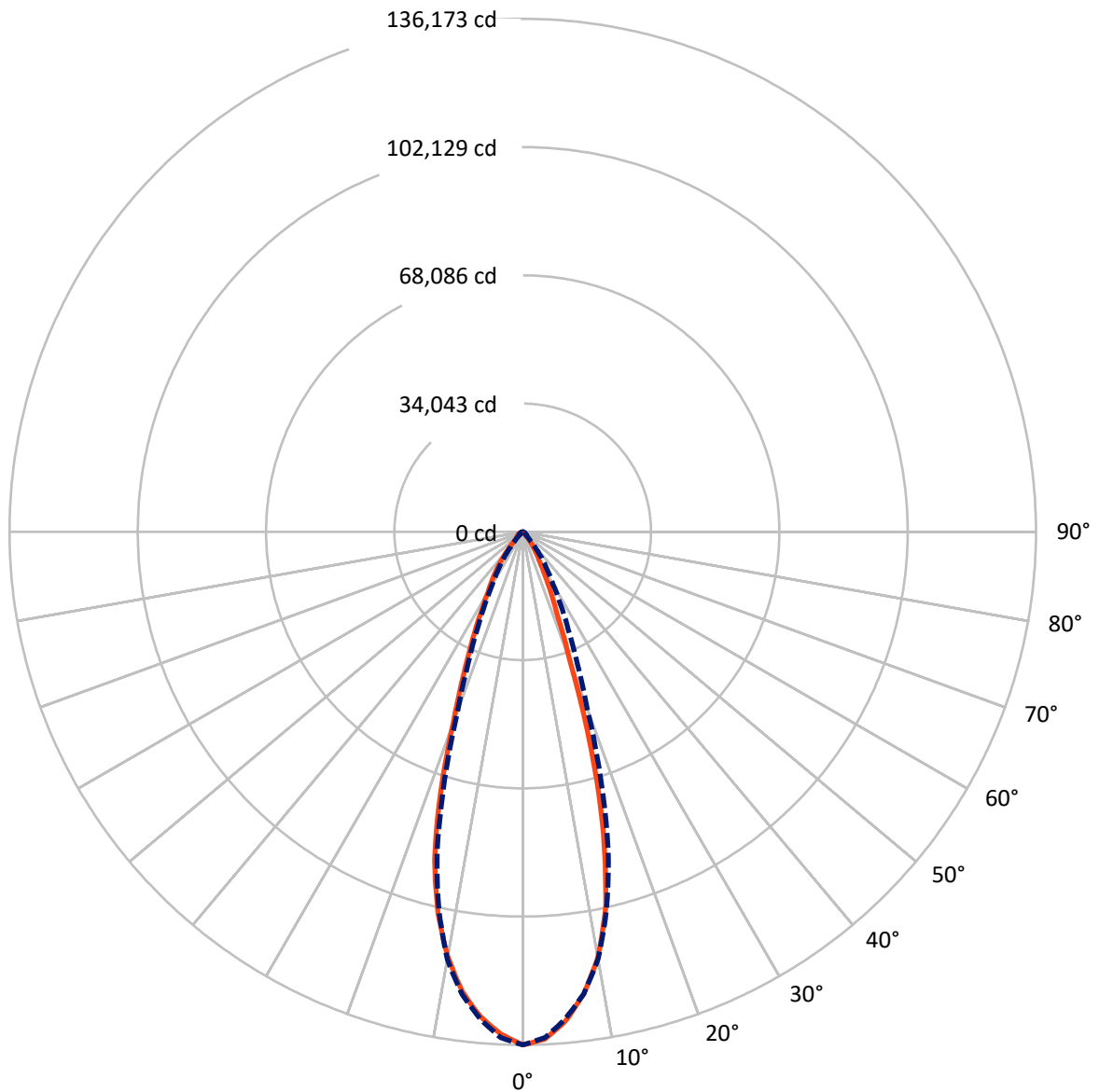
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Lumen Table

90	0.2	0.6	1.1	1.5	1.7	1.5	1.1	0.6	0.2										
80	0.2	0.6	1.1	1.5	1.7	1.5	1.1	0.6	0.2										
70	0.2	0.1	0.1	0.3	0.5	0.4	0.4	0.5	0.5	0.4	0.4	0.5	0.3	0.1	0.1	0.2			
60		0.3	0.5	0.8	0.7	0.6	0.7	0.8	0.8	0.7	0.6	0.7	0.8	0.5	0.3				
50	0.6	0.7	1.6	3.2	5.9	9.4	13.7	17.7	17.7	13.7	9.4	5.9	3.2	1.6	0.7	0.6			
40		1.7	5.4	10.3	16.9	39.0	87.2	141.2	141.2	87.2	39.0	16.9	10.3	5.4	1.7				
30	1.2	3.0	9.0	17.4	54.5	167.7	365.9	554.9	554.9	365.9	167.7	54.5	17.4	9.0	3.0	1.2			
20		4.0	11.8	27.8	141.9	470.6	1257.3	2234.1	2234.1	1257.3	470.6	141.9	27.8	11.8	4.0				
10	1.8	4.9	13.8	38.5	222.1	772.4	2286.0	3660.6	3660.6	2286.0	772.4	222.1	38.5	13.8	4.9	1.8			
0		5.5	15.3	43.1	238.0	811.2	2396.5	3689.5	3689.5	2396.5	811.2	238.0	43.1	15.3	5.5				
-10	2.1	5.7	16.2	39.7	190.0	599.2	1508.6	2478.4	2478.4	1508.6	599.2	190.0	39.7	16.2	5.7	2.1			
-20		5.3	16.1	34.0	104.5	332.8	653.4	943.5	943.5	653.4	332.8	104.5	34.0	16.1	5.3				
-30	2.0	4.5	14.5	28.5	50.2	123.5	248.8	343.9	343.9	248.8	123.5	50.2	28.5	14.5	4.5	2.0			
-40		3.5	10.9	22.8	35.9	49.8	68.0	87.0	87.0	68.0	49.8	35.9	22.8	10.9	3.5				
-50	1.7	2.6	6.8	14.8	25.5	34.4	41.6	46.7	46.7	41.6	34.4	25.5	14.8	6.8	2.6	1.7			
-60		2.0	4.0	7.5	12.8	18.2	23.1	26.4	26.4	23.1	18.2	12.8	7.5	4.0	2.0				
-70	1.2	7.2	16.1	26.1	32.0	26.1	16.1	7.2	1.2							1.2			
-80		7.2	16.1	26.1	32.0	26.1	16.1	7.2	1.2										
-90	1.2	7.2	16.1	26.1	32.0	26.1	16.1	7.2	1.2										

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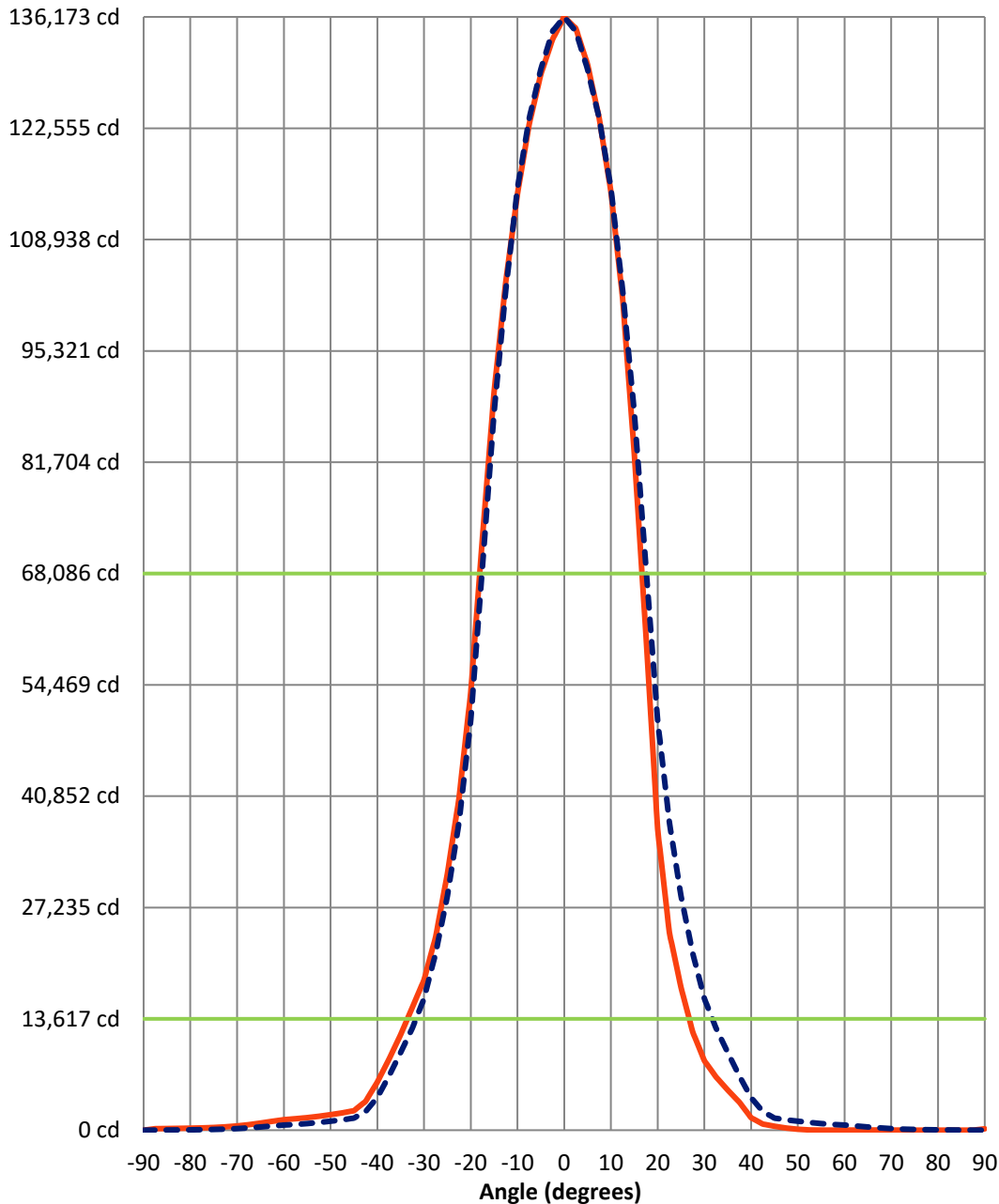
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 35.2°
 V Angle: 34.7°
 Lumens: 30318.3
 Efficiency: 53.7%

Field:
 H Angle: 63.4°
 V Angle: 60.3°
 Lumens: 49337
 Efficiency: 87.3%

Spill:
 Lumens: 7150.1
 Efficiency: 12.7%

— 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°	6.1	11.4	16.8	27.6	38.4	48.1	57.9	65.7	73.4	78.5	83.5
87.5°	6.1	5.5	4.8	4.9	4.9	4.9	4.9	4.6	4.2	4.3	4.3
85°	6.1	5.6	5.0	5.1	5.2	5.2	5.1	4.8	4.5	4.5	4.6
82.5°	6.1	5.8	5.1	5.2	5.4	5.4	5.3	5.0	4.8	4.9	4.9
80°	6.1	5.9	5.2	5.4	5.7	5.6	5.5	5.4	5.2	5.3	5.2
77.5°	6.1	6.0	5.4	5.6	5.9	5.9	5.8	5.8	5.7	5.7	5.5
75°	6.1	6.1	5.5	5.8	6.1	6.2	6.2	6.2	6.2	6.0	5.6
72.5°	6.1	6.3	5.7	6.0	6.4	6.5	6.5	6.6	6.5	6.1	5.7
70°	6.1	6.4	5.8	6.1	6.6	6.8	6.9	6.9	6.8	6.4	6.2
67.5°	6.1	6.5	6.0	6.4	6.9	7.1	7.4	7.3	7.1	7.0	6.8
65°	6.1	6.7	6.2	6.7	7.2	7.5	7.9	7.7	7.9	7.6	7.6
62.5°	6.1	6.8	6.4	7.0	7.5	8.1	8.5	8.6	8.9	8.4	9.1
60°	6.1	6.9	6.6	7.2	7.8	8.8	9.1	9.8	9.9	10.6	10.9
57.5°	6.1	7.1	7.0	7.5	8.5	9.4	10.4	11.1	12.4	13.2	14.7
55°	6.1	7.2	7.4	7.8	9.2	10.2	11.8	12.5	15.3	16.7	19.7
52.5°	6.1	7.4	7.8	8.1	10.0	11.0	13.2	15.5	18.5	22.6	25.2
50°	6.1	7.5	8.2	8.4	10.8	12.5	14.8	18.8	22.7	28.8	32.6
47.5°	6.1	7.6	8.7	8.8	11.7	14.1	16.6	22.2	28.9	35.5	41.0
45°	6.1	7.8	9.2	9.5	12.6	15.8	19.7	25.7	35.4	43.8	50.0
42.5°	6.1	7.9	9.7	10.2	13.5	17.5	22.8	30.8	42.3	52.4	64.5
40°	6.1	8.1	10.2	11.2	14.7	19.3	26.1	36.9	49.8	61.5	81.3
37.5°	6.1	8.2	10.8	12.3	16.1	21.2	29.6	43.1	58.4	73.3	99.4
35°	6.1	8.4	11.3	13.5	17.5	23.7	33.0	49.4	67.4	90.1	121.4
32.5°	6.1	8.5	11.9	14.7	19.0	26.4	37.0	55.8	76.7	107.3	146.5
30°	6.1	8.7	12.5	15.9	20.4	29.1	42.1	62.3	86.4	124.9	170.5
27.5°	6.1	8.8	13.1	17.2	22.4	31.8	47.1	69.4	97.0	142.7	193.2
25°	6.1	8.9	13.7	18.4	24.4	34.4	52.0	76.2	109.2	161.3	214.8
22.5°	6.1	9.1	14.4	19.6	26.3	37.1	56.7	82.6	120.6	175.7	236.9
20°	6.1	9.2	15.0	20.8	28.2	40.2	61.2	88.7	131.2	189.1	254.7
17.5°	6.1	9.3	15.6	22.0	30.0	43.2	65.8	94.4	140.9	201.6	271.4
15°	6.1	9.5	16.2	23.2	31.8	46.0	70.4	100.1	149.8	213.0	287.1
12.5°	6.1	9.6	16.8	24.4	33.6	48.8	74.7	105.9	158.8	223.3	301.7
10°	6.1	9.7	17.4	25.5	35.2	51.5	78.8	111.3	167.6	236.7	317.7
7.5°	6.1	9.8	18.0	26.6	36.8	54.0	82.5	116.3	175.6	249.9	338.2
5°	6.1	9.9	18.5	27.6	38.3	56.4	85.9	120.9	182.7	262.1	357.6
2.5°	6.1	10.0	19.0	28.6	39.8	58.6	88.9	125.0	188.8	273.2	375.4
0°	6.1	10.1	19.5	29.6	41.1	60.6	91.6	128.7	194.0	282.9	391.4
-2.5°	6.1	10.5	20.3	30.9	43.0	63.0	94.8	133.1	200.8	290.9	399.4
-5°	6.1	10.8	21.0	32.1	44.8	65.3	97.5	137.0	206.5	297.2	405.3
-7.5°	6.1	11.2	21.6	33.2	46.5	67.3	99.9	140.2	210.9	301.9	408.9
-10°	6.1	11.5	22.3	34.2	48.1	69.2	101.9	142.9	214.0	304.8	410.5
-12.5°	6.1	11.8	22.9	35.2	49.6	70.8	103.4	144.8	215.6	305.9	412.3
-15°	6.1	12.1	23.4	36.1	50.9	72.2	104.5	146.1	215.3	304.6	412.2
-17.5°	6.1	12.4	23.9	37.0	52.1	73.4	105.2	147.0	213.2	301.2	408.8
-20°	6.1	12.7	24.4	37.7	53.2	74.3	105.7	147.4	209.8	295.7	401.7



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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-4S-VHE

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	6.1	12.9	24.8	38.3	54.1	75.0	106.3	147.2	205.2	288.2	391.2
-25°	6.1	13.2	25.1	38.9	54.8	75.9	106.3	146.3	199.2	278.5	380.3
-27.5°	6.1	13.4	25.4	39.3	55.4	76.7	105.9	144.8	192.0	270.1	371.0
-30°	6.1	13.6	25.7	39.7	55.9	77.2	104.9	142.7	187.7	262.5	358.7
-32.5°	6.1	13.7	25.9	39.9	56.6	77.5	103.5	140.8	185.2	252.7	343.4
-35°	6.1	13.9	26.0	40.1	57.2	77.5	103.0	138.7	181.7	241.0	324.9
-37.5°	6.1	14.0	26.1	40.1	57.6	77.5	102.7	135.9	177.1	227.2	307.3
-40°	6.1	14.1	26.2	40.1	57.9	77.8	102.0	132.3	171.5	218.4	290.0
-42.5°	6.1	14.2	26.2	40.0	58.1	77.9	100.9	128.0	166.0	211.1	270.7
-45°	6.1	14.2	26.1	40.1	58.2	77.9	99.4	124.3	160.2	202.4	251.1
-47.5°	6.1	14.3	26.0	40.1	58.2	77.6	97.5	122.1	153.4	192.4	239.7
-50°	6.1	14.3	25.8	40.1	57.9	77.1	96.5	119.5	145.7	183.5	226.7
-52.5°	6.1	14.3	25.6	40.0	57.5	76.4	95.5	116.6	140.7	173.4	211.7
-55°	6.1	14.2	25.3	39.8	57.0	75.5	94.2	113.4	136.4	162.3	197.3
-57.5°	6.1	14.1	25.0	39.6	56.2	74.3	92.7	111.6	131.7	155.2	181.9
-60°	6.1	14.1	24.6	39.2	55.3	73.0	91.0	109.3	126.9	149.0	168.2
-62.5°	6.1	13.9	24.3	38.7	54.6	71.4	88.9	106.6	123.5	141.7	159.4
-65°	6.1	13.8	23.8	38.1	53.7	69.7	86.7	103.5	119.8	135.9	150.3
-67.5°	6.1	13.7	23.4	37.4	52.7	67.9	84.2	100.2	115.7	130.4	143.2
-70°	6.1	13.5	22.8	36.6	51.5	66.1	81.4	96.5	111.4	124.7	136.7
-72.5°	6.1	13.3	22.2	35.7	50.2	64.1	78.6	92.7	106.7	118.9	130.0
-75°	6.1	13.1	21.6	34.8	48.7	61.9	75.6	88.7	101.9	112.8	123.0
-77.5°	6.1	12.8	20.9	33.8	47.2	59.5	72.4	84.5	96.8	106.6	115.9
-80°	6.1	12.6	20.1	32.7	45.7	57.3	69.0	80.2	91.6	100.3	108.7
-82.5°	6.1	12.3	19.3	31.5	44.0	55.2	66.3	76.1	86.1	93.8	101.4
-85°	6.1	12.0	18.5	30.3	42.2	52.9	63.6	72.7	81.9	88.3	94.7
-87.5°	6.1	11.8	17.7	29.0	40.4	50.6	60.8	69.3	77.7	83.4	89.2
-90°	6.1	5.4	4.7	4.7	4.7	4.7	4.7	4.4	4.0	4.0	4.0



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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°	87.2	90.9	94.3	97.7	101.8	105.8	109.8	113.8	118.2	122.6	127.0
87.5°	4.0	3.7	3.7	3.7	3.4	3.2	2.9	2.7	2.7	2.7	2.6
85°	4.3	4.0	4.0	4.0	3.8	3.6	3.3	3.0	3.0	3.1	2.9
82.5°	4.6	4.4	4.2	4.0	4.0	4.0	3.7	3.5	3.5	3.4	3.2
80°	5.0	4.7	4.4	4.2	4.2	4.0	3.9	3.9	3.7	3.5	3.5
77.5°	5.1	4.8	4.6	4.6	4.4	4.1	4.0	4.0	3.9	3.9	3.8
75°	5.2	4.8	4.8	4.8	4.5	4.1	4.0	4.2	4.2	4.1	4.0
72.5°	5.4	5.2	5.1	4.9	4.7	4.5	4.5	4.6	5.0	5.4	5.7
70°	6.0	5.7	5.6	5.4	5.2	5.1	5.7	6.9	8.0	8.4	9.5
67.5°	6.6	6.5	6.3	6.1	6.1	6.7	7.5	9.9	12.1	13.6	15.2
65°	7.3	7.2	7.2	7.3	7.4	9.4	11.7	14.1	17.9	20.1	20.2
62.5°	8.2	9.3	8.8	9.4	11.3	13.5	16.9	21.3	26.1	28.0	26.8
60°	11.7	12.2	12.5	13.9	15.8	18.2	22.9	28.2	33.8	37.2	32.2
57.5°	16.1	16.8	18.0	18.9	21.0	22.4	27.9	34.4	38.0	40.2	34.5
55°	21.5	22.6	24.4	24.8	26.6	27.3	31.9	36.3	39.4	40.1	33.9
52.5°	28.5	29.7	32.4	32.8	32.9	33.5	34.1	39.1	41.5	40.8	35.2
50°	36.1	40.2	41.7	43.2	41.2	42.0	39.8	45.5	50.4	49.1	50.7
47.5°	47.2	52.4	54.5	57.3	55.9	60.5	58.8	69.7	73.4	95.2	100.1
45°	60.6	69.8	72.6	79.1	85.6	90.9	108.5	109.9	155.8	175.0	211.1
42.5°	76.7	91.1	102.9	105.3	136.5	153.2	177.6	217.7	257.9	294.9	319.4
40°	100.5	115.5	140.7	170.0	203.2	239.1	271.6	318.2	357.2	386.2	403.5
37.5°	127.7	156.2	190.5	243.4	288.3	324.8	361.8	402.1	438.8	464.3	497.5
35°	157.5	199.0	262.6	317.7	365.9	400.3	436.4	479.1	513.8	554.9	595.9
32.5°	193.6	242.7	322.5	382.0	421.2	461.9	503.6	548.5	598.1	648.8	701.4
30°	229.4	291.9	369.9	431.8	469.7	517.2	567.8	620.4	685.6	749.4	820.4
27.5°	257.5	334.2	408.4	472.4	516.5	572.7	634.4	703.1	780.5	858.7	952.9
25°	282.7	365.7	447.2	514.9	571.0	633.3	705.8	788.3	880.5	990.3	1286.7
22.5°	307.2	396.3	490.0	560.6	623.6	694.0	781.5	877.7	986.2	1132.1	1656.3
20°	332.4	431.0	531.0	598.6	671.7	750.5	853.0	964.7	1099.1	1443.9	2217.2
17.5°	358.3	466.8	565.9	631.9	708.9	805.0	924.2	1050.2	1214.1	1735.9	2919.5
15°	383.5	500.5	593.9	661.4	746.2	858.1	991.3	1145.6	1417.5	2143.4	3623.3
12.5°	407.6	530.8	614.6	686.7	783.1	908.2	1053.5	1226.7	1656.6	2693.3	4390.9
10°	430.3	557.6	632.7	710.9	819.1	955.2	1109.2	1298.0	1865.4	3132.7	4998.6
7.5°	454.9	580.6	649.0	733.8	852.3	998.3	1155.1	1352.9	2020.9	3469.6	5450.0
5°	477.2	599.3	668.0	760.7	885.3	1037.1	1194.4	1398.9	2127.0	3683.2	5763.2
2.5°	496.7	614.2	685.5	786.3	916.3	1071.1	1230.0	1445.0	2221.7	3863.8	6159.7
0°	513.3	625.8	701.3	809.1	943.1	1099.4	1259.1	1482.0	2285.0	3985.4	6619.4
-2.5°	523.5	643.2	727.6	833.0	965.2	1119.5	1285.4	1521.6	2349.2	4248.2	6794.5
-5°	530.8	657.2	751.2	853.9	983.1	1134.2	1304.6	1549.7	2376.8	4320.5	6743.5
-7.5°	535.0	667.4	771.4	872.2	999.1	1151.2	1335.0	1587.3	2389.3	4142.3	6454.5
-10°	537.3	676.0	784.6	887.3	1013.9	1166.9	1358.7	1611.5	2338.0	3901.9	6122.0
-12.5°	543.0	683.3	795.1	898.5	1023.8	1178.1	1377.2	1629.8	2221.1	3571.6	5665.1
-15°	544.5	687.0	803.9	906.3	1034.1	1194.6	1391.1	1632.9	2052.3	3144.7	5081.6
-17.5°	541.5	687.2	810.1	912.3	1039.2	1200.9	1395.5	1623.9	1926.1	2834.5	4494.6
-20°	533.6	679.2	811.9	912.8	1037.2	1203.5	1397.8	1620.1	1895.3	2517.4	3782.7



REPORT NUMBER: P735955 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-4S-VHE

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	520.8	666.4	805.4	911.9	1044.0	1204.6	1391.4	1596.1	1828.6	2134.8	3074.1
-25°	507.1	648.4	788.3	915.1	1045.3	1199.1	1364.1	1552.1	1766.8	2006.3	2568.4
-27.5°	492.3	627.4	770.8	911.0	1038.9	1178.1	1331.3	1507.5	1684.3	1877.8	2117.2
-30°	474.3	604.5	747.3	896.3	1023.8	1153.8	1295.2	1437.6	1596.1	1770.2	1973.0
-32.5°	452.8	577.6	718.2	865.4	1003.9	1125.7	1243.9	1371.8	1513.2	1666.8	1834.5
-35°	429.4	550.3	684.1	827.8	979.5	1091.4	1194.1	1304.7	1430.0	1570.3	1726.1
-37.5°	405.8	518.9	644.0	784.2	931.7	1048.8	1141.4	1244.6	1354.9	1475.0	1619.9
-40°	378.9	482.7	602.3	734.7	865.6	992.1	1093.8	1187.4	1284.3	1394.3	1512.6
-42.5°	349.9	447.4	556.7	676.6	795.5	916.1	1043.5	1135.5	1222.2	1315.5	1419.2
-45°	325.7	408.5	507.3	614.0	721.1	837.9	960.8	1083.8	1163.0	1243.7	1332.1
-47.5°	297.7	369.0	459.3	548.3	647.1	757.2	873.6	987.7	1100.1	1178.7	1253.0
-50°	270.9	335.5	404.5	486.4	574.4	676.1	782.8	887.0	992.4	1098.9	1183.7
-52.5°	252.6	299.7	359.5	424.2	505.6	595.5	689.0	781.9	880.9	982.5	1080.3
-55°	232.7	273.1	315.7	370.7	437.7	517.8	595.6	678.8	763.9	857.5	952.8
-57.5°	213.8	247.2	280.7	322.5	378.9	440.1	508.3	576.6	653.7	732.1	813.7
-60°	195.1	222.5	251.0	284.3	323.1	374.7	424.1	483.6	547.6	612.1	684.6
-62.5°	177.2	199.6	223.2	251.3	283.8	314.3	355.1	401.2	447.4	504.6	563.3
-65°	166.7	179.1	197.7	222.1	247.4	274.3	300.8	329.1	369.3	411.9	453.6
-67.5°	155.5	166.9	178.6	193.6	215.7	236.7	258.1	282.9	308.5	336.2	366.6
-70°	147.1	155.0	165.4	177.2	188.7	201.5	220.5	240.2	259.9	281.4	305.3
-72.5°	139.2	146.6	154.3	162.6	172.8	182.5	192.5	203.2	218.7	237.6	255.2
-75°	131.2	138.0	145.0	152.4	160.0	167.3	175.2	184.8	195.5	207.1	217.9
-77.5°	123.0	129.4	135.8	142.1	149.0	156.2	162.9	169.8	178.2	187.1	195.6
-80°	115.0	120.7	126.6	132.5	138.5	144.7	150.7	156.4	163.7	171.4	179.0
-82.5°	107.1	112.5	117.6	122.8	128.0	133.1	138.5	143.9	150.5	157.3	163.7
-85°	99.5	104.2	108.6	112.9	117.8	122.5	127.1	131.7	137.7	143.8	149.4
-87.5°	93.4	97.6	101.3	105.0	109.3	113.5	117.5	121.4	126.6	131.8	136.6
-90°	3.7	3.4	3.4	3.4	3.1	2.7	2.7	2.7	2.7	2.7	2.4



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	131.4	134.4	137.4	139.5	141.5	144.5	147.5	151.9	156.3	160.0	163.7
87.5°	2.6	2.3	2.0	2.0	1.9	1.9	2.0	1.6	1.3	1.3	1.3
85°	2.7	2.6	2.5	2.5	2.6	2.3	2.0	2.0	2.0	2.0	2.0
82.5°	3.0	2.9	2.7	2.7	2.7	2.6	2.6	2.3	2.0	2.0	2.0
80°	3.4	3.2	3.1	2.9	2.7	2.7	2.7	2.4	2.0	2.0	2.0
77.5°	3.5	3.5	3.4	3.1	2.8	2.7	2.7	2.4	2.0	2.0	2.0
75°	3.9	3.9	3.9	3.8	3.7	3.8	4.0	3.9	3.7	3.5	3.3
72.5°	6.0	6.1	6.0	6.3	6.7	7.0	7.1	7.4	7.6	8.1	8.7
70°	10.7	11.5	11.6	11.6	11.5	11.2	10.8	10.7	10.8	11.0	11.2
67.5°	16.2	16.8	17.1	17.3	15.8	14.8	14.4	14.4	15.0	16.2	18.0
65°	20.6	19.4	18.3	17.1	17.2	17.1	16.4	16.0	16.5	17.2	18.1
62.5°	24.6	19.5	16.3	14.7	15.0	15.5	14.0	12.8	12.5	12.3	12.4
60°	26.4	18.3	12.9	11.0	9.8	9.2	8.2	7.0	6.7	6.6	6.8
57.5°	26.6	17.5	10.3	8.1	6.2	4.8	4.0	3.5	3.5	3.4	3.3
55°	25.8	17.7	10.0	9.2	8.4	7.7	6.6	6.5	6.2	6.1	6.5
52.5°	26.7	24.8	20.3	19.7	24.0	24.1	20.8	25.6	28.8	31.3	32.5
50°	52.9	50.8	64.2	64.2	77.7	89.3	85.9	92.7	104.4	114.6	120.9
47.5°	123.5	133.2	153.3	171.3	191.6	217.3	228.7	236.8	247.0	260.8	269.9
45°	230.0	254.1	280.2	309.3	343.4	373.5	391.0	407.9	419.0	431.2	445.7
42.5°	341.6	370.3	409.0	443.8	480.6	515.8	543.5	567.9	615.5	683.5	737.5
40°	437.1	469.8	514.7	561.2	604.5	649.0	771.3	875.6	1005.5	1199.4	1371.3
37.5°	532.0	569.7	619.8	676.7	807.6	940.1	1207.3	1495.9	1745.9	2026.3	2309.5
35°	635.3	684.8	751.8	943.4	1185.7	1538.8	1921.9	2350.6	2714.4	3106.0	3679.6
32.5°	757.3	843.9	1060.4	1408.7	1843.1	2344.7	2820.0	3358.8	3813.2	4532.6	5408.7
30°	914.6	1186.2	1601.9	2082.8	2668.9	3303.9	3899.7	4772.4	5792.0	6694.6	7439.9
27.5°	1294.0	1818.7	2399.1	3008.5	3742.4	4511.8	5761.2	6890.8	7987.8	8962.3	10094.5
25°	1860.5	2702.3	3694.1	4511.1	5508.4	6899.0	8311.7	9555.7	11223.0	12689.4	14334.3
22.5°	2661.7	3860.4	5138.0	6330.8	7862.3	9603.9	11504.7	13796.8	16112.9	18685.6	20974.4
20°	3443.7	4960.4	6578.3	8295.4	10256.9	12434.4	15541.5	19261.3	22830.3	26883.6	30301.4
17.5°	4485.2	6318.6	8232.0	10414.8	12936.6	16286.7	20872.7	25959.1	31478.1	37530.6	43127.6
15°	5544.3	7519.4	9742.7	12536.3	16103.3	20656.4	26507.2	33431.3	41502.4	50399.9	61216.9
12.5°	6412.2	8572.0	11171.8	14692.3	19357.6	25446.7	32535.3	40870.3	51935.5	65355.3	77922.7
10°	7153.8	9743.5	13028.7	17195.3	22682.8	29556.8	37609.4	47928.7	62834.1	78380.5	92172.0
7.5°	7917.6	10981.3	14460.5	18978.1	25217.4	33020.0	42935.9	56411.5	72811.4	88756.8	101404.3
5°	8638.1	11825.4	15364.0	20190.5	26937.8	35317.8	46568.5	62981.9	80828.5	96446.0	108328.2
2.5°	9202.5	12249.9	15839.7	21093.4	27867.9	36566.6	48845.6	67044.8	85765.9	101157.7	113342.0
0°	9495.2	12480.2	16103.8	21658.1	28639.2	37712.7	50151.2	68837.8	87774.3	102763.2	115182.1
-2.5°	9430.4	12369.1	15940.3	21222.3	28463.0	37920.1	51236.7	69772.2	88120.3	103310.9	115014.9
-5°	9294.2	12194.0	15715.9	20686.8	27831.7	37398.8	50058.0	67099.0	84819.1	100401.2	111779.5
-7.5°	9040.2	11900.9	15268.4	19903.5	26785.4	35845.1	47268.9	62076.8	79076.3	94688.4	105703.6
-10°	8666.6	11448.0	14626.2	18841.7	25022.3	33343.4	43055.6	54619.5	70521.9	85118.4	97357.6
-12.5°	8135.6	10807.4	13735.2	17357.6	22892.7	30225.8	38598.6	48206.9	59572.5	73649.8	85122.1
-15°	7459.9	9972.6	12693.2	16111.1	20739.2	26747.7	33807.1	41260.8	49972.2	59689.4	70871.9
-17.5°	6630.6	8991.0	11524.4	14471.0	18214.0	23255.2	28839.4	34655.5	40943.5	48094.4	54664.1
-20°	5641.8	7800.8	10188.3	12929.0	16136.2	19777.5	23836.9	28538.7	33412.7	38516.5	43032.2



REPORT NUMBER: P735955 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-4S-VHE

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	4637.7	6607.2	8882.3	11278.7	14066.3	16845.7	19572.3	23068.2	26832.1	30527.1	33888.3
-25°	3628.7	5367.4	7482.8	9730.5	11967.8	14238.2	16451.9	18622.7	21331.2	23709.6	26176.6
-27.5°	2882.2	4182.9	5959.2	7920.7	9870.3	11764.6	13678.7	15492.0	17200.1	18636.4	20299.6
-30°	2266.7	3144.7	4516.8	6060.4	7766.3	9435.4	11084.7	12616.5	13961.6	15144.2	16299.2
-32.5°	2049.4	2407.9	3223.3	4396.3	5742.1	7206.5	8585.1	9900.8	11009.7	12108.7	13143.6
-35°	1895.7	2093.2	2359.8	3092.5	3968.9	5134.3	6214.9	7306.8	8238.2	9335.8	10184.4
-37.5°	1769.9	1921.9	2090.4	2263.3	2796.2	3379.7	4157.8	4976.3	5695.8	6616.5	7365.7
-40°	1648.0	1782.6	1914.3	2045.7	2187.4	2317.6	2780.8	3202.8	3690.9	4320.7	4859.6
-42.5°	1530.1	1648.7	1762.8	1869.5	1968.5	2054.1	2147.2	2236.6	2500.1	2821.1	3067.7
-45°	1424.3	1525.1	1620.6	1710.9	1786.4	1854.8	1926.6	2001.3	2099.3	2188.4	2261.9
-47.5°	1334.4	1414.1	1492.3	1565.9	1623.8	1682.3	1739.4	1803.9	1880.2	1955.0	2017.5
-50°	1253.1	1322.0	1381.4	1433.5	1481.7	1531.1	1576.6	1633.9	1695.3	1757.2	1808.9
-52.5°	1175.2	1236.5	1286.1	1325.7	1362.5	1402.8	1441.9	1487.6	1537.5	1589.5	1630.6
-55°	1044.2	1122.2	1194.2	1231.5	1260.3	1293.5	1326.7	1363.7	1405.8	1449.5	1482.1
-57.5°	899.5	976.4	1044.3	1092.6	1140.4	1189.2	1225.7	1254.7	1292.7	1330.0	1358.2
-60°	754.2	818.7	878.6	927.5	977.3	1026.1	1067.2	1104.9	1152.0	1194.8	1229.6
-62.5°	618.9	675.3	721.6	761.1	803.6	846.0	885.1	922.4	965.2	1003.6	1036.2
-65°	496.0	543.3	577.5	608.6	642.3	677.5	708.5	739.3	773.7	804.5	831.2
-67.5°	401.0	432.4	453.7	473.5	500.3	527.6	551.9	576.5	602.7	626.1	646.4
-70°	328.3	347.9	361.0	376.2	395.3	412.8	428.7	446.7	466.0	483.8	500.0
-72.5°	272.1	285.6	295.5	307.6	319.7	330.8	340.9	353.8	367.8	381.6	394.7
-75°	228.0	236.7	246.2	254.9	263.1	271.2	278.6	289.0	299.9	310.2	320.2
-77.5°	204.5	211.0	216.4	221.2	225.7	230.9	236.0	244.8	254.3	262.3	269.8
-80°	186.4	191.5	195.8	199.5	203.0	207.2	211.5	218.6	226.1	232.8	239.4
-82.5°	170.1	174.5	178.5	181.9	185.1	188.8	192.4	198.7	205.1	210.9	216.5
-85°	154.9	158.7	162.3	165.3	168.3	171.7	175.0	180.5	185.9	191.0	196.1
-87.5°	141.3	144.6	147.9	150.2	152.4	155.7	158.9	163.8	168.6	173.1	177.6
-90°	2.0	2.0	2.0	1.7	1.3	1.3	1.3	1.3	1.3	1.0	0.7



REPORT NUMBER: P735955 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-4S-VHE

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	165.7	167.7	168.1	168.4	168.1	167.7	165.7	163.7	160.0	156.3	151.9
87.5°	1.0	0.7	1.0	1.3	1.0	0.7	1.0	1.3	1.3	1.3	1.6
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.3
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.4
77.5°	1.7	1.3	1.6	2.0	1.6	1.3	1.7	2.0	2.0	2.0	2.4
75°	3.0	2.7	2.4	2.0	2.4	2.7	3.0	3.3	3.5	3.7	3.9
72.5°	9.0	9.2	9.7	10.1	9.7	9.2	9.0	8.7	8.1	7.6	7.4
70°	10.8	10.2	10.1	10.1	10.1	10.2	10.8	11.2	11.0	10.8	10.7
67.5°	19.3	20.4	20.8	20.9	20.8	20.4	19.3	18.0	16.2	15.0	14.4
65°	18.8	19.4	19.5	19.5	19.5	19.4	18.8	18.1	17.2	16.5	16.0
62.5°	12.6	12.9	13.2	13.5	13.2	12.9	12.6	12.4	12.3	12.5	12.8
60°	7.1	7.5	7.8	8.1	7.8	7.5	7.1	6.8	6.6	6.7	7.0
57.5°	3.3	3.5	3.7	4.0	3.7	3.5	3.3	3.3	3.4	3.5	3.5
55°	6.8	7.1	7.3	7.4	7.3	7.1	6.8	6.5	6.1	6.2	6.5
52.5°	32.0	30.4	29.2	28.3	29.2	30.4	32.0	32.5	31.3	28.8	25.6
50°	123.5	120.5	117.1	113.8	117.1	120.5	123.5	120.9	114.6	104.4	92.7
47.5°	275.4	273.0	267.9	261.4	267.9	273.0	275.4	269.9	260.8	247.0	236.8
45°	465.5	479.0	485.0	481.7	485.0	479.0	465.5	445.7	431.2	419.0	407.9
42.5°	755.8	767.7	768.7	751.1	768.7	767.7	755.8	737.5	683.5	615.5	567.9
40°	1495.6	1599.3	1634.8	1527.9	1634.8	1599.3	1495.6	1371.3	1199.4	1005.5	875.6
37.5°	2650.8	3058.0	3397.6	3410.7	3397.6	3058.0	2650.8	2309.5	2026.3	1745.9	1495.9
35°	4296.0	4714.9	4917.5	4908.9	4917.5	4714.9	4296.0	3679.6	3106.0	2714.4	2350.6
32.5°	6038.2	6355.5	6558.4	6509.6	6558.4	6355.5	6038.2	5408.7	4532.6	3813.2	3358.8
30°	7972.3	8266.7	8503.1	8499.5	8503.1	8266.7	7972.3	7439.9	6694.6	5792.0	4772.4
27.5°	11016.1	11622.9	12105.3	12023.5	12105.3	11622.9	11016.1	10094.5	8962.3	7987.8	6890.8
25°	15721.9	16831.9	17616.7	17455.2	17616.7	16831.9	15721.9	14334.3	12689.4	11223.0	9555.7
22.5°	22673.6	24097.5	24692.9	24220.7	24692.9	24097.5	22673.6	20974.4	18685.6	16112.9	13796.8
20°	33557.4	36197.4	37838.6	36859.9	37838.6	36197.4	33557.4	30301.4	26883.6	22830.3	19261.3
17.5°	50371.8	56098.8	60624.0	60499.2	60624.0	56098.8	50371.8	43127.6	37530.6	31478.1	25959.1
15°	70634.7	77153.3	82172.5	82752.9	82172.5	77153.3	70634.7	61216.9	50399.9	41502.4	33431.3
12.5°	88778.0	95407.4	100319.2	101732.5	100319.2	95407.4	88778.0	77922.7	65355.3	51935.5	40870.3
10°	101708.7	108324.4	113078.6	114755.0	113078.6	108324.4	101708.7	92172.0	78380.5	62834.1	47928.7
7.5°	111194.5	118371.9	121935.6	123757.2	121935.6	118371.9	111194.5	101404.3	88756.8	72811.4	56411.5
5°	118020.1	124690.7	128138.2	130345.5	128138.2	124690.7	118020.1	108328.2	96446.0	80828.5	62981.9
2.5°	122322.9	128620.5	132760.6	134740.5	132760.6	128620.5	122322.9	113342.0	101157.7	85765.9	67044.8
0°	123711.7	129757.4	134397.9	136172.6	134397.9	129757.4	123711.7	115182.1	102763.2	87774.3	68837.8
-2.5°	123065.7	128988.0	132689.2	133406.6	132689.2	128988.0	123065.7	115014.9	103310.9	88120.3	69772.2
-5°	119704.1	125162.5	128580.1	129141.7	128580.1	125162.5	119704.1	111779.5	100401.2	84819.1	67099.0
-7.5°	113908.8	119353.7	122178.6	123010.3	122178.6	119353.7	113908.8	105703.6	94688.4	79076.3	62076.8
-10°	105506.1	110766.5	113785.7	114501.7	113785.7	110766.5	105506.1	97357.6	85118.4	70521.9	54619.5
-12.5°	94040.4	99652.3	103031.3	103775.8	103031.3	99652.3	94040.4	85122.1	73649.8	59572.5	48206.9
-15°	79172.9	84945.4	89259.0	90302.6	89259.0	84945.4	79172.9	70871.9	59689.4	49972.2	41260.8
-17.5°	62035.0	67811.5	71687.8	72427.7	71687.8	67811.5	62035.0	54664.1	48094.4	40943.5	34655.5
-20°	47274.7	50989.8	53177.6	53558.5	53177.6	50989.8	47274.7	43032.2	38516.5	33412.7	28538.7



REPORT NUMBER: P735955 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	36635.1	39132.0	40463.9	40651.9	40463.9	39132.0	36635.1	33888.3	30527.1	26832.1	23068.2
-25°	28388.7	30202.9	31195.0	31360.1	31195.0	30202.9	28388.7	26176.6	23709.6	21331.2	18622.7
-27.5°	21797.6	22924.7	23847.7	23655.5	23847.7	22924.7	21797.6	20299.6	18636.4	17200.1	15492.0
-30°	17248.1	17971.0	18516.2	18373.4	18516.2	17971.0	17248.1	16299.2	15144.2	13961.6	12616.5
-32.5°	13960.1	14526.4	14909.7	15011.8	14909.7	14526.4	13960.1	13143.6	12108.7	11009.7	9900.8
-35°	10850.4	11313.2	11578.8	11681.9	11578.8	11313.2	10850.4	10184.4	9335.8	8238.2	7306.8
-37.5°	7921.9	8327.8	8581.2	8669.3	8581.2	8327.8	7921.9	7365.7	6616.5	5695.8	4976.3
-40°	5272.3	5585.0	5792.6	5873.0	5792.6	5585.0	5272.3	4859.6	4320.7	3690.9	3202.8
-42.5°	3259.8	3406.2	3498.9	3527.9	3498.9	3406.2	3259.8	3067.7	2821.1	2500.1	2236.6
-45°	2318.7	2359.2	2382.3	2386.8	2382.3	2359.2	2318.7	2261.9	2188.4	2099.3	2001.3
-47.5°	2066.4	2098.3	2114.6	2115.3	2114.6	2098.3	2066.4	2017.5	1955.0	1880.2	1803.9
-50°	1851.6	1881.2	1896.1	1897.0	1896.1	1881.2	1851.6	1808.9	1757.2	1695.3	1633.9
-52.5°	1664.3	1687.8	1698.8	1699.0	1698.8	1687.8	1664.3	1630.6	1589.5	1537.5	1487.6
-55°	1508.8	1527.1	1533.9	1532.6	1533.9	1527.1	1508.8	1482.1	1449.5	1405.8	1363.7
-57.5°	1381.6	1399.5	1405.1	1403.2	1405.1	1399.5	1381.6	1358.2	1330.0	1292.7	1254.7
-60°	1256.8	1276.0	1283.2	1282.6	1283.2	1276.0	1256.8	1229.6	1194.8	1152.0	1104.9
-62.5°	1059.5	1074.3	1082.2	1084.6	1082.2	1074.3	1059.5	1036.2	1003.6	965.2	922.4
-65°	849.6	861.4	867.7	869.7	867.7	861.4	849.6	831.2	804.5	773.7	739.3
-67.5°	659.5	667.9	672.0	673.0	672.0	667.9	659.5	646.4	626.1	602.7	576.5
-70°	510.0	516.9	520.2	521.4	520.2	516.9	510.0	500.0	483.8	466.0	446.7
-72.5°	402.3	407.8	410.0	410.9	410.0	407.8	402.3	394.7	381.6	367.8	353.8
-75°	324.8	328.1	329.4	330.1	329.4	328.1	324.8	320.2	310.2	299.9	289.0
-77.5°	273.9	277.4	278.7	279.6	278.7	277.4	273.9	269.8	262.3	254.3	244.8
-80°	242.3	244.8	245.8	246.6	245.8	244.8	242.3	239.4	232.8	226.1	218.6
-82.5°	220.0	223.4	223.6	223.7	223.6	223.4	220.0	216.5	210.9	205.1	198.7
-85°	198.7	201.2	201.7	202.1	201.7	201.2	198.7	196.1	191.0	185.9	180.5
-87.5°	180.1	182.5	182.6	182.6	182.6	182.5	180.1	177.6	173.1	168.6	163.8
-90°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.3	1.3



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	147.5	144.5	141.5	139.5	137.4	134.4	131.4	127.0	122.6	118.2	113.8
87.5°	2.0	1.9	1.9	2.0	2.0	2.3	2.6	2.6	2.7	2.7	2.7
85°	2.0	2.3	2.6	2.5	2.5	2.6	2.7	2.9	3.1	3.0	3.0
82.5°	2.6	2.6	2.7	2.7	2.7	2.9	3.0	3.2	3.4	3.5	3.5
80°	2.7	2.7	2.7	2.9	3.1	3.2	3.4	3.5	3.5	3.7	3.9
77.5°	2.7	2.7	2.8	3.1	3.4	3.5	3.5	3.8	3.9	3.9	4.0
75°	4.0	3.8	3.7	3.8	3.9	3.9	3.9	4.0	4.1	4.2	4.2
72.5°	7.1	7.0	6.7	6.3	6.0	6.1	6.0	5.7	5.4	5.0	4.6
70°	10.8	11.2	11.5	11.6	11.6	11.5	10.7	9.5	8.4	8.0	6.9
67.5°	14.4	14.8	15.8	17.3	17.1	16.8	16.2	15.2	13.6	12.1	9.9
65°	16.4	17.1	17.2	17.1	18.3	19.4	20.6	20.2	20.1	17.9	14.1
62.5°	14.0	15.5	15.0	14.7	16.3	19.5	24.6	26.8	28.0	26.1	21.3
60°	8.2	9.2	9.8	11.0	12.9	18.3	26.4	32.2	37.2	33.8	28.2
57.5°	4.0	4.8	6.2	8.1	10.3	17.5	26.6	34.5	40.2	38.0	34.4
55°	6.6	7.7	8.4	9.2	10.0	17.7	25.8	33.9	40.1	39.4	36.3
52.5°	20.8	24.1	24.0	19.7	20.3	24.8	26.7	35.2	40.8	41.5	39.1
50°	85.9	89.3	77.7	64.2	64.2	50.8	52.9	50.7	49.1	50.4	45.5
47.5°	228.7	217.3	191.6	171.3	153.3	133.2	123.5	100.1	95.2	73.4	69.7
45°	391.0	373.5	343.4	309.3	280.2	254.1	230.0	211.1	175.0	155.8	109.9
42.5°	543.5	515.8	480.6	443.8	409.0	370.3	341.6	319.4	294.9	257.9	217.7
40°	771.3	649.0	604.5	561.2	514.7	469.8	437.1	403.5	386.2	357.2	318.2
37.5°	1207.3	940.1	807.6	676.7	619.8	569.7	532.0	497.5	464.3	438.8	402.1
35°	1921.9	1538.8	1185.7	943.4	751.8	684.8	635.3	595.9	554.9	513.8	479.1
32.5°	2820.0	2344.7	1843.1	1408.7	1060.4	843.9	757.3	701.4	648.8	598.1	548.5
30°	3899.7	3303.9	2668.9	2082.8	1601.9	1186.2	914.6	820.4	749.4	685.6	620.4
27.5°	5761.2	4511.8	3742.4	3008.5	2399.1	1818.7	1294.0	952.9	858.7	780.5	703.1
25°	8311.7	6899.0	5508.4	4511.1	3694.1	2702.3	1860.5	1286.7	990.3	880.5	788.3
22.5°	11504.7	9603.9	7862.3	6330.8	5138.0	3860.4	2661.7	1656.3	1132.1	986.2	877.7
20°	15541.5	12434.4	10256.9	8295.4	6578.3	4960.4	3443.7	2217.2	1443.9	1099.1	964.7
17.5°	20872.7	16286.7	12936.6	10414.8	8232.0	6318.6	4485.2	2919.5	1735.9	1214.1	1050.2
15°	26507.2	20656.4	16103.3	12536.3	9742.7	7519.4	5544.3	3623.3	2143.4	1417.5	1145.6
12.5°	32535.3	25446.7	19357.6	14692.3	11171.8	8572.0	6412.2	4390.9	2693.3	1656.6	1226.7
10°	37609.4	29556.8	22682.8	17195.3	13028.7	9743.5	7153.8	4998.6	3132.7	1865.4	1298.0
7.5°	42935.9	33020.0	25217.4	18978.1	14460.5	10981.3	7917.6	5450.0	3469.6	2020.9	1352.9
5°	46568.5	35317.8	26937.8	20190.5	15364.0	11825.4	8638.1	5763.2	3683.2	2127.0	1398.9
2.5°	48845.6	36566.6	27867.9	21093.4	15839.7	12249.9	9202.5	6159.7	3863.8	2221.7	1445.0
0°	50151.2	37712.7	28639.2	21658.1	16103.8	12480.2	9495.2	6619.4	3985.4	2285.0	1482.0
-2.5°	51236.7	37920.1	28463.0	21222.3	15940.3	12369.1	9430.4	6794.5	4248.2	2349.2	1521.6
-5°	50058.0	37398.8	27831.7	20686.8	15715.9	12194.0	9294.2	6743.5	4320.5	2376.8	1549.7
-7.5°	47268.9	35845.1	26785.4	19903.5	15268.4	11900.9	9040.2	6454.5	4142.3	2389.3	1587.3
-10°	43055.6	33343.4	25022.3	18841.7	14626.2	11448.0	8666.6	6122.0	3901.9	2338.0	1611.5
-12.5°	38598.6	30225.8	22892.7	17357.6	13735.2	10807.4	8135.6	5665.1	3571.6	2221.1	1629.8
-15°	33807.1	26747.7	20739.2	16111.1	12693.2	9972.6	7459.9	5081.6	3144.7	2052.3	1632.9
-17.5°	28839.4	23255.2	18214.0	14471.0	11524.4	8991.0	6630.6	4494.6	2834.5	1926.1	1623.9
-20°	23836.9	19777.5	16136.2	12929.0	10188.3	7800.8	5641.8	3782.7	2517.4	1895.3	1620.1



REPORT NUMBER: P735955 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	19572.3	16845.7	14066.3	11278.7	8882.3	6607.2	4637.7	3074.1	2134.8	1828.6	1596.1
-25°	16451.9	14238.2	11967.8	9730.5	7482.8	5367.4	3628.7	2568.4	2006.3	1766.8	1552.1
-27.5°	13678.7	11764.6	9870.3	7920.7	5959.2	4182.9	2882.2	2117.2	1877.8	1684.3	1507.5
-30°	11084.7	9435.4	7766.3	6060.4	4516.8	3144.7	2266.7	1973.0	1770.2	1596.1	1437.6
-32.5°	8585.1	7206.5	5742.1	4396.3	3223.3	2407.9	2049.4	1834.5	1666.8	1513.2	1371.8
-35°	6214.9	5134.3	3968.9	3092.5	2359.8	2093.2	1895.7	1726.1	1570.3	1430.0	1304.7
-37.5°	4157.8	3379.7	2796.2	2263.3	2090.4	1921.9	1769.9	1619.9	1475.0	1354.9	1244.6
-40°	2780.8	2317.6	2187.4	2045.7	1914.3	1782.6	1648.0	1512.6	1394.3	1284.3	1187.4
-42.5°	2147.2	2054.1	1968.5	1869.5	1762.8	1648.7	1530.1	1419.2	1315.5	1222.2	1135.5
-45°	1926.6	1854.8	1786.4	1710.9	1620.6	1525.1	1424.3	1332.1	1243.7	1163.0	1083.8
-47.5°	1739.4	1682.3	1623.8	1565.9	1492.3	1414.1	1334.4	1253.0	1178.7	1100.1	987.7
-50°	1576.6	1531.1	1481.7	1433.5	1381.4	1322.0	1253.1	1183.7	1098.9	992.4	887.0
-52.5°	1441.9	1402.8	1362.5	1325.7	1286.1	1236.5	1175.2	1080.3	982.5	880.9	781.9
-55°	1326.7	1293.5	1260.3	1231.5	1194.2	1122.2	1044.2	952.8	857.5	763.9	678.8
-57.5°	1225.7	1189.2	1140.4	1092.6	1044.3	976.4	899.5	813.7	732.1	653.7	576.6
-60°	1067.2	1026.1	977.3	927.5	878.6	818.7	754.2	684.6	612.1	547.6	483.6
-62.5°	885.1	846.0	803.6	761.1	721.6	675.3	618.9	563.3	504.6	447.4	401.2
-65°	708.5	677.5	642.3	608.6	577.5	543.3	496.0	453.6	411.9	369.3	329.1
-67.5°	551.9	527.6	500.3	473.5	453.7	432.4	401.0	366.6	336.2	308.5	282.9
-70°	428.7	412.8	395.3	376.2	361.0	347.9	328.3	305.3	281.4	259.9	240.2
-72.5°	340.9	330.8	319.7	307.6	295.5	285.6	272.1	255.2	237.6	218.7	203.2
-75°	278.6	271.2	263.1	254.9	246.2	236.7	228.0	217.9	207.1	195.5	184.8
-77.5°	236.0	230.9	225.7	221.2	216.4	211.0	204.5	195.6	187.1	178.2	169.8
-80°	211.5	207.2	203.0	199.5	195.8	191.5	186.4	179.0	171.4	163.7	156.4
-82.5°	192.4	188.8	185.1	181.9	178.5	174.5	170.1	163.7	157.3	150.5	143.9
-85°	175.0	171.7	168.3	165.3	162.3	158.7	154.9	149.4	143.8	137.7	131.7
-87.5°	158.9	155.7	152.4	150.2	147.9	144.6	141.3	136.6	131.8	126.6	121.4
-90°	1.3	1.3	1.3	1.7	2.0	2.0	2.0	2.4	2.7	2.7	2.7



REPORT NUMBER: P735955 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	109.8	105.8	101.8	97.7	94.3	90.9	87.2	83.5	78.5	73.4	65.7
87.5°	2.9	3.2	3.4	3.7	3.7	3.7	4.0	4.3	4.3	4.2	4.6
85°	3.3	3.6	3.8	4.0	4.0	4.0	4.3	4.6	4.5	4.5	4.8
82.5°	3.7	4.0	4.0	4.0	4.2	4.4	4.6	4.9	4.9	4.8	5.0
80°	3.9	4.0	4.2	4.2	4.4	4.7	5.0	5.2	5.3	5.2	5.4
77.5°	4.0	4.1	4.4	4.6	4.6	4.8	5.1	5.5	5.7	5.7	5.8
75°	4.0	4.1	4.5	4.8	4.8	4.8	5.2	5.6	6.0	6.2	6.2
72.5°	4.5	4.5	4.7	4.9	5.1	5.2	5.4	5.7	6.1	6.5	6.6
70°	5.7	5.1	5.2	5.4	5.6	5.7	6.0	6.2	6.4	6.8	6.9
67.5°	7.5	6.7	6.1	6.1	6.3	6.5	6.6	6.8	7.0	7.1	7.3
65°	11.7	9.4	7.4	7.3	7.2	7.2	7.3	7.6	7.6	7.9	7.7
62.5°	16.9	13.5	11.3	9.4	8.8	9.3	8.2	9.1	8.4	8.9	8.6
60°	22.9	18.2	15.8	13.9	12.5	12.2	11.7	10.9	10.6	9.9	9.8
57.5°	27.9	22.4	21.0	18.9	18.0	16.8	16.1	14.7	13.2	12.4	11.1
55°	31.9	27.3	26.6	24.8	24.4	22.6	21.5	19.7	16.7	15.3	12.5
52.5°	34.1	33.5	32.9	32.8	32.4	29.7	28.5	25.2	22.6	18.5	15.5
50°	39.8	42.0	41.2	43.2	41.7	40.2	36.1	32.6	28.8	22.7	18.8
47.5°	58.8	60.5	55.9	57.3	54.5	52.4	47.2	41.0	35.5	28.9	22.2
45°	108.5	90.9	85.6	79.1	72.6	69.8	60.6	50.0	43.8	35.4	25.7
42.5°	177.6	153.2	136.5	105.3	102.9	91.1	76.7	64.5	52.4	42.3	30.8
40°	271.6	239.1	203.2	170.0	140.7	115.5	100.5	81.3	61.5	49.8	36.9
37.5°	361.8	324.8	288.3	243.4	190.5	156.2	127.7	99.4	73.3	58.4	43.1
35°	436.4	400.3	365.9	317.7	262.6	199.0	157.5	121.4	90.1	67.4	49.4
32.5°	503.6	461.9	421.2	382.0	322.5	242.7	193.6	146.5	107.3	76.7	55.8
30°	567.8	517.2	469.7	431.8	369.9	291.9	229.4	170.5	124.9	86.4	62.3
27.5°	634.4	572.7	516.5	472.4	408.4	334.2	257.5	193.2	142.7	97.0	69.4
25°	705.8	633.3	571.0	514.9	447.2	365.7	282.7	214.8	161.3	109.2	76.2
22.5°	781.5	694.0	623.6	560.6	490.0	396.3	307.2	236.9	175.7	120.6	82.6
20°	853.0	750.5	671.7	598.6	531.0	431.0	332.4	254.7	189.1	131.2	88.7
17.5°	924.2	805.0	708.9	631.9	565.9	466.8	358.3	271.4	201.6	140.9	94.4
15°	991.3	858.1	746.2	661.4	593.9	500.5	383.5	287.1	213.0	149.8	100.1
12.5°	1053.5	908.2	783.1	686.7	614.6	530.8	407.6	301.7	223.3	158.8	105.9
10°	1109.2	955.2	819.1	710.9	632.7	557.6	430.3	317.7	236.7	167.6	111.3
7.5°	1155.1	998.3	852.3	733.8	649.0	580.6	454.9	338.2	249.9	175.6	116.3
5°	1194.4	1037.1	885.3	760.7	668.0	599.3	477.2	357.6	262.1	182.7	120.9
2.5°	1230.0	1071.1	916.3	786.3	685.5	614.2	496.7	375.4	273.2	188.8	125.0
0°	1259.1	1099.4	943.1	809.1	701.3	625.8	513.3	391.4	282.9	194.0	128.7
-2.5°	1285.4	1119.5	965.2	833.0	727.6	643.2	523.5	399.4	290.9	200.8	133.1
-5°	1304.6	1134.2	983.1	853.9	751.2	657.2	530.8	405.3	297.2	206.5	137.0
-7.5°	1335.0	1151.2	999.1	872.2	771.4	667.4	535.0	408.9	301.9	210.9	140.2
-10°	1358.7	1166.9	1013.9	887.3	784.6	676.0	537.3	410.5	304.8	214.0	142.9
-12.5°	1377.2	1178.1	1023.8	898.5	795.1	683.3	543.0	412.3	305.9	215.6	144.8
-15°	1391.1	1194.6	1034.1	906.3	803.9	687.0	544.5	412.2	304.6	215.3	146.1
-17.5°	1395.5	1200.9	1039.2	912.3	810.1	687.2	541.5	408.8	301.2	213.2	147.0
-20°	1397.8	1203.5	1037.2	912.8	811.9	679.2	533.6	401.7	295.7	209.8	147.4



REPORT NUMBER: P735955 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-4S-VHE

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1391.4	1204.6	1044.0	911.9	805.4	666.4	520.8	391.2	288.2	205.2	147.2
-25°	1364.1	1199.1	1045.3	915.1	788.3	648.4	507.1	380.3	278.5	199.2	146.3
-27.5°	1331.3	1178.1	1038.9	911.0	770.8	627.4	492.3	371.0	270.1	192.0	144.8
-30°	1295.2	1153.8	1023.8	896.3	747.3	604.5	474.3	358.7	262.5	187.7	142.7
-32.5°	1243.9	1125.7	1003.9	865.4	718.2	577.6	452.8	343.4	252.7	185.2	140.8
-35°	1194.1	1091.4	979.5	827.8	684.1	550.3	429.4	324.9	241.0	181.7	138.7
-37.5°	1141.4	1048.8	931.7	784.2	644.0	518.9	405.8	307.3	227.2	177.1	135.9
-40°	1093.8	992.1	865.6	734.7	602.3	482.7	378.9	290.0	218.4	171.5	132.3
-42.5°	1043.5	916.1	795.5	676.6	556.7	447.4	349.9	270.7	211.1	166.0	128.0
-45°	960.8	837.9	721.1	614.0	507.3	408.5	325.7	251.1	202.4	160.2	124.3
-47.5°	873.6	757.2	647.1	548.3	459.3	369.0	297.7	239.7	192.4	153.4	122.1
-50°	782.8	676.1	574.4	486.4	404.5	335.5	270.9	226.7	183.5	145.7	119.5
-52.5°	689.0	595.5	505.6	424.2	359.5	299.7	252.6	211.7	173.4	140.7	116.6
-55°	595.6	517.8	437.7	370.7	315.7	273.1	232.7	197.3	162.3	136.4	113.4
-57.5°	508.3	440.1	378.9	322.5	280.7	247.2	213.8	181.9	155.2	131.7	111.6
-60°	424.1	374.7	323.1	284.3	251.0	222.5	195.1	168.2	149.0	126.9	109.3
-62.5°	355.1	314.3	283.8	251.3	223.2	199.6	177.2	159.4	141.7	123.5	106.6
-65°	300.8	274.3	247.4	222.1	197.7	179.1	166.7	150.3	135.9	119.8	103.5
-67.5°	258.1	236.7	215.7	193.6	178.6	166.9	155.5	143.2	130.4	115.7	100.2
-70°	220.5	201.5	188.7	177.2	165.4	155.0	147.1	136.7	124.7	111.4	96.5
-72.5°	192.5	182.5	172.8	162.6	154.3	146.6	139.2	130.0	118.9	106.7	92.7
-75°	175.2	167.3	160.0	152.4	145.0	138.0	131.2	123.0	112.8	101.9	88.7
-77.5°	162.9	156.2	149.0	142.1	135.8	129.4	123.0	115.9	106.6	96.8	84.5
-80°	150.7	144.7	138.5	132.5	126.6	120.7	115.0	108.7	100.3	91.6	80.2
-82.5°	138.5	133.1	128.0	122.8	117.6	112.5	107.1	101.4	93.8	86.1	76.1
-85°	127.1	122.5	117.8	112.9	108.6	104.2	99.5	94.7	88.3	81.9	72.7
-87.5°	117.5	113.5	109.3	105.0	101.3	97.6	93.4	89.2	83.4	77.7	69.3
-90°	2.7	2.7	3.1	3.4	3.4	3.4	3.7	4.0	4.0	4.0	4.4



REPORT NUMBER: P735955 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	57.9	48.1	38.4	27.6	16.8	11.4	6.1
87.5°	4.9	4.9	4.9	4.9	4.8	5.5	6.1
85°	5.1	5.2	5.2	5.1	5.0	5.6	6.1
82.5°	5.3	5.4	5.4	5.2	5.1	5.8	6.1
80°	5.5	5.6	5.7	5.4	5.2	5.9	6.1
77.5°	5.8	5.9	5.9	5.6	5.4	6.0	6.1
75°	6.2	6.2	6.1	5.8	5.5	6.1	6.1
72.5°	6.5	6.5	6.4	6.0	5.7	6.3	6.1
70°	6.9	6.8	6.6	6.1	5.8	6.4	6.1
67.5°	7.4	7.1	6.9	6.4	6.0	6.5	6.1
65°	7.9	7.5	7.2	6.7	6.2	6.7	6.1
62.5°	8.5	8.1	7.5	7.0	6.4	6.8	6.1
60°	9.1	8.8	7.8	7.2	6.6	6.9	6.1
57.5°	10.4	9.4	8.5	7.5	7.0	7.1	6.1
55°	11.8	10.2	9.2	7.8	7.4	7.2	6.1
52.5°	13.2	11.0	10.0	8.1	7.8	7.4	6.1
50°	14.8	12.5	10.8	8.4	8.2	7.5	6.1
47.5°	16.6	14.1	11.7	8.8	8.7	7.6	6.1
45°	19.7	15.8	12.6	9.5	9.2	7.8	6.1
42.5°	22.8	17.5	13.5	10.2	9.7	7.9	6.1
40°	26.1	19.3	14.7	11.2	10.2	8.1	6.1
37.5°	29.6	21.2	16.1	12.3	10.8	8.2	6.1
35°	33.0	23.7	17.5	13.5	11.3	8.4	6.1
32.5°	37.0	26.4	19.0	14.7	11.9	8.5	6.1
30°	42.1	29.1	20.4	15.9	12.5	8.7	6.1
27.5°	47.1	31.8	22.4	17.2	13.1	8.8	6.1
25°	52.0	34.4	24.4	18.4	13.7	8.9	6.1
22.5°	56.7	37.1	26.3	19.6	14.4	9.1	6.1
20°	61.2	40.2	28.2	20.8	15.0	9.2	6.1
17.5°	65.8	43.2	30.0	22.0	15.6	9.3	6.1
15°	70.4	46.0	31.8	23.2	16.2	9.5	6.1
12.5°	74.7	48.8	33.6	24.4	16.8	9.6	6.1
10°	78.8	51.5	35.2	25.5	17.4	9.7	6.1
7.5°	82.5	54.0	36.8	26.6	18.0	9.8	6.1
5°	85.9	56.4	38.3	27.6	18.5	9.9	6.1
2.5°	88.9	58.6	39.8	28.6	19.0	10.0	6.1
0°	91.6	60.6	41.1	29.6	19.5	10.1	6.1
-2.5°	94.8	63.0	43.0	30.9	20.3	10.5	6.1
-5°	97.5	65.3	44.8	32.1	21.0	10.8	6.1
-7.5°	99.9	67.3	46.5	33.2	21.6	11.2	6.1
-10°	101.9	69.2	48.1	34.2	22.3	11.5	6.1
-12.5°	103.4	70.8	49.6	35.2	22.9	11.8	6.1
-15°	104.5	72.2	50.9	36.1	23.4	12.1	6.1
-17.5°	105.2	73.4	52.1	37.0	23.9	12.4	6.1
-20°	105.7	74.3	53.2	37.7	24.4	12.7	6.1



REPORT NUMBER: P735955 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-4S-VHE

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	106.3	75.0	54.1	38.3	24.8	12.9	6.1
-25°	106.3	75.9	54.8	38.9	25.1	13.2	6.1
-27.5°	105.9	76.7	55.4	39.3	25.4	13.4	6.1
-30°	104.9	77.2	55.9	39.7	25.7	13.6	6.1
-32.5°	103.5	77.5	56.6	39.9	25.9	13.7	6.1
-35°	103.0	77.5	57.2	40.1	26.0	13.9	6.1
-37.5°	102.7	77.5	57.6	40.1	26.1	14.0	6.1
-40°	102.0	77.8	57.9	40.1	26.2	14.1	6.1
-42.5°	100.9	77.9	58.1	40.0	26.2	14.2	6.1
-45°	99.4	77.9	58.2	40.1	26.1	14.2	6.1
-47.5°	97.5	77.6	58.2	40.1	26.0	14.3	6.1
-50°	96.5	77.1	57.9	40.1	25.8	14.3	6.1
-52.5°	95.5	76.4	57.5	40.0	25.6	14.3	6.1
-55°	94.2	75.5	57.0	39.8	25.3	14.2	6.1
-57.5°	92.7	74.3	56.2	39.6	25.0	14.1	6.1
-60°	91.0	73.0	55.3	39.2	24.6	14.1	6.1
-62.5°	88.9	71.4	54.6	38.7	24.3	13.9	6.1
-65°	86.7	69.7	53.7	38.1	23.8	13.8	6.1
-67.5°	84.2	67.9	52.7	37.4	23.4	13.7	6.1
-70°	81.4	66.1	51.5	36.6	22.8	13.5	6.1
-72.5°	78.6	64.1	50.2	35.7	22.2	13.3	6.1
-75°	75.6	61.9	48.7	34.8	21.6	13.1	6.1
-77.5°	72.4	59.5	47.2	33.8	20.9	12.8	6.1
-80°	69.0	57.3	45.7	32.7	20.1	12.6	6.1
-82.5°	66.3	55.2	44.0	31.5	19.3	12.3	6.1
-85°	63.6	52.9	42.2	30.3	18.5	12.0	6.1
-87.5°	60.8	50.6	40.4	29.0	17.7	11.8	6.1
-90°	4.7	4.7	4.7	4.7	4.7	5.4	6.1

(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

