

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: P701326 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701326 (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: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320L-40-70-3S-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 3S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

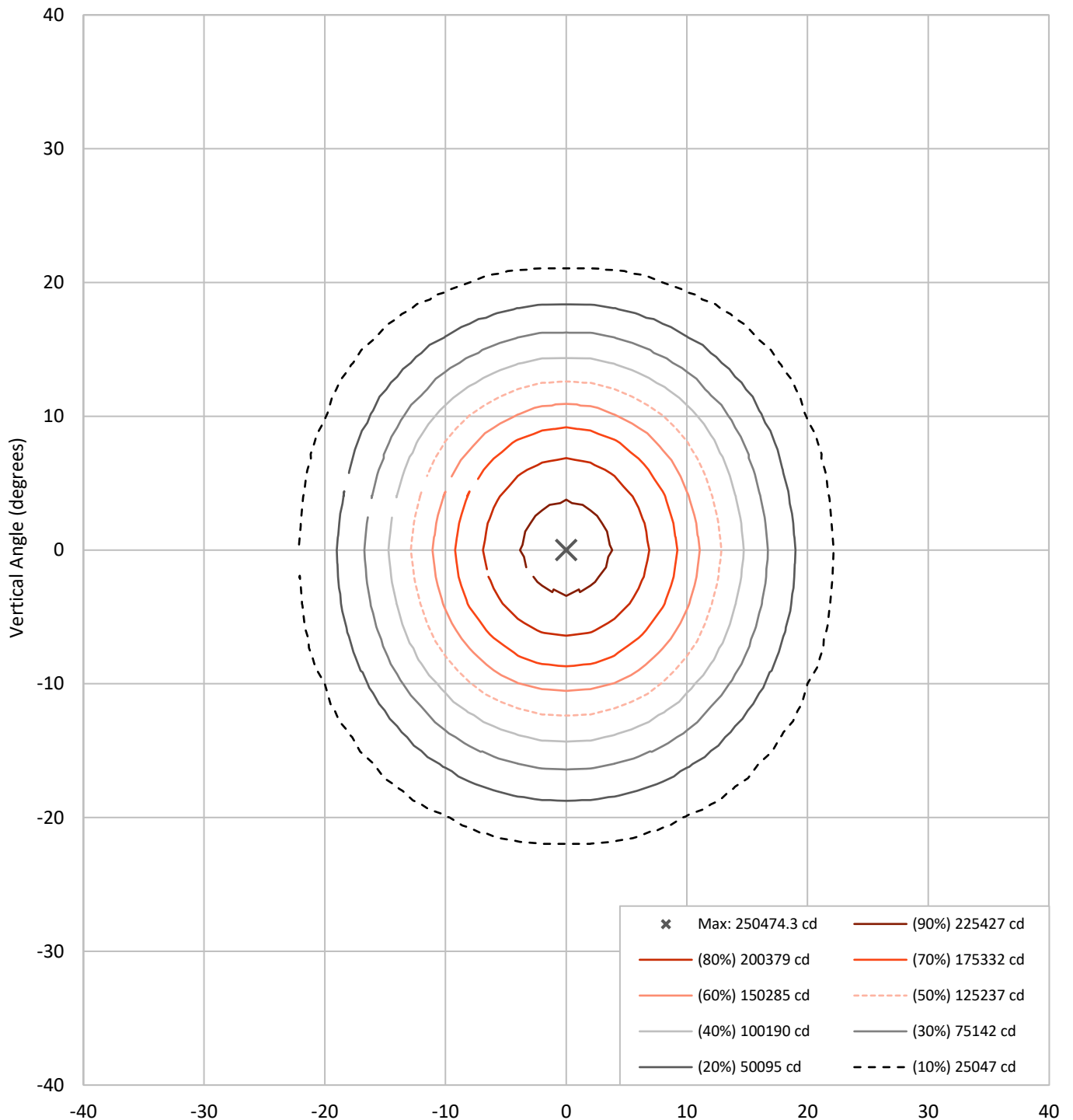
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	56274.1 lumens	Max Intensity:	250474.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	163.5 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:	26924.8 lumens	Field Lumens:	47178.9 lumens
Beam Efficiency:	47.8%	Field Efficiency:	83.8%

Input Watts (W): 344.2
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





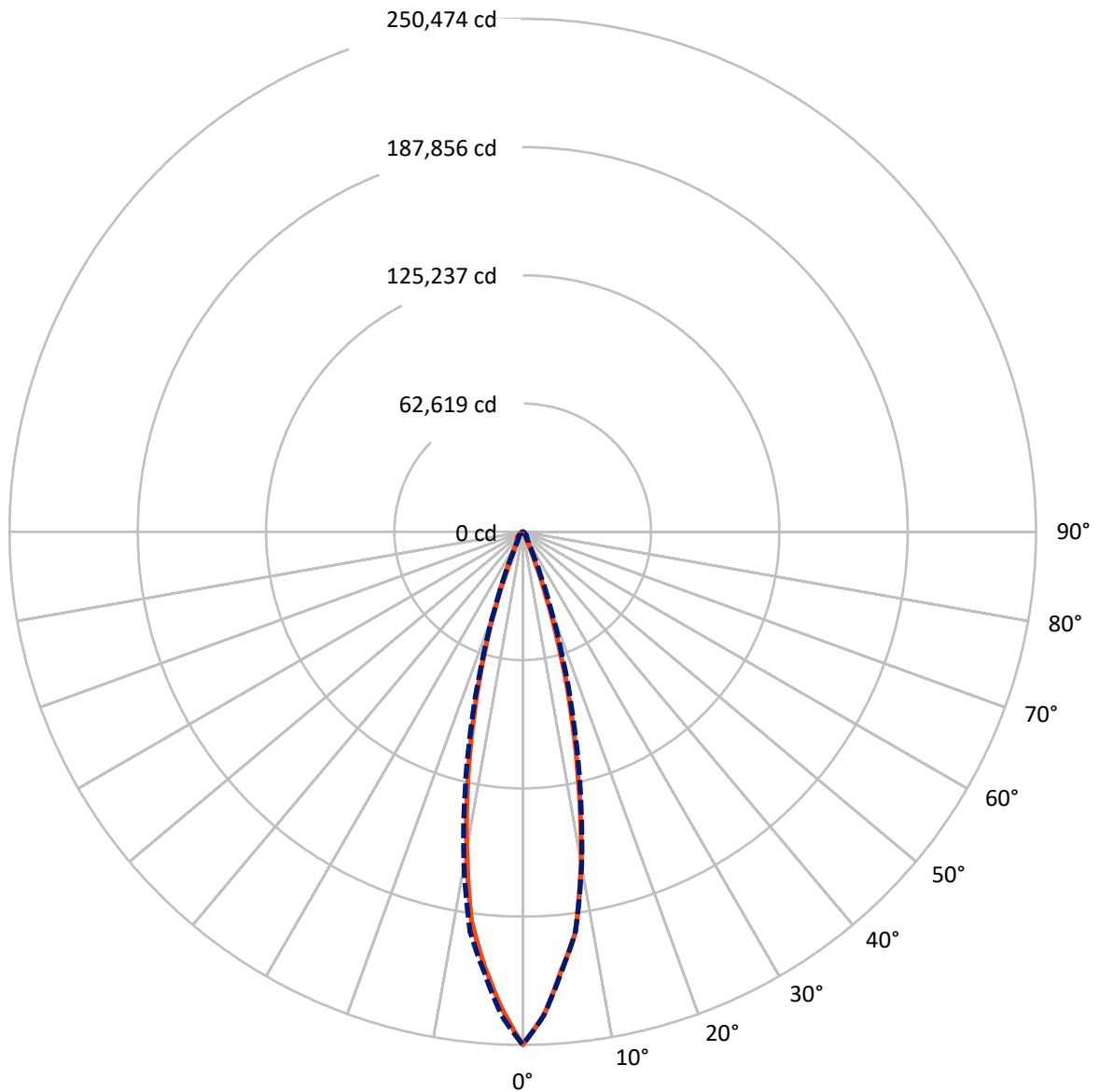
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Lumen Table

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	0.2	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	7.3	12.4	17.7	20.0	20.0	17.7	12.4	7.3	3.9	1.9	0.8	0.5	0.5	0.5
40		1.9	6.0	12.3	23.2	38.5	46.5	54.6	54.6	46.5	38.5	23.2	12.3	6.0	1.9			
30	1.3	3.3	10.0	22.0	49.3	63.5	137.1	299.8	299.8	137.1	63.5	49.3	22.0	10.0	3.3	1.3	1.3	1.3
20		4.3	13.2	35.8	70.8	171.2	1031.4	2493.6	2493.6	1031.4	171.2	70.8	35.8	13.2	4.3			
10	1.9	5.2	15.3	45.6	85.8	380.1	2505.1	5706.0	5706.0	2505.1	380.1	85.8	45.6	15.3	5.2	1.9	1.9	1.9
0		5.7	16.8	48.3	95.0	391.7	2520.3	5646.7	5646.7	2520.3	391.7	95.0	48.3	16.8	5.7			
-10	2.1	5.8	17.4	46.6	94.7	210.0	1075.5	2516.8	2516.8	1075.5	210.0	94.7	46.6	17.4	5.8	2.1	2.1	2.1
-20		5.4	16.6	36.9	85.2	128.6	222.9	423.9	423.9	222.9	128.6	85.2	36.9	16.6	5.4			
-30	1.7	4.6	14.2	29.5	58.9	102.9	127.0	141.0	141.0	127.0	102.9	58.9	29.5	14.2	4.6	1.7	1.7	1.7
-40		3.5	10.8	22.9	37.3	55.0	80.6	100.5	100.5	80.6	55.0	37.3	22.9	10.8	3.5			
-50	1.4	2.4	7.0	14.9	25.1	34.1	41.5	46.0	46.0	41.5	34.1	25.1	14.9	7.0	2.4	1.4	1.4	1.4
-60		1.7	3.7	7.7	13.1	18.0	22.7	25.6	25.6	22.7	18.0	13.1	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	1.0	1.0
-80		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			
-90	1.0		6.2		14.3		23.2		28.5		23.2		14.3		6.2		1.0	

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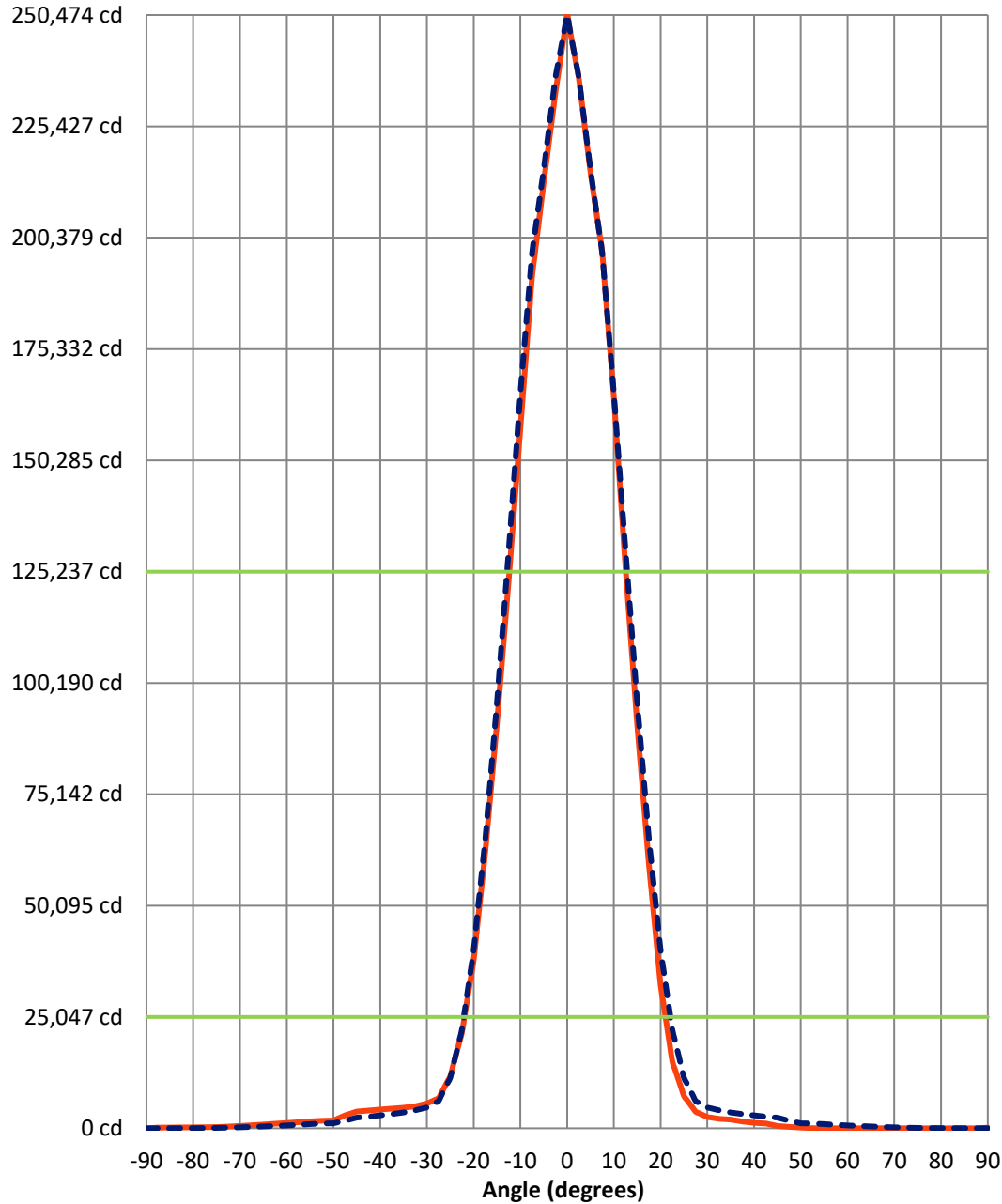
Luminous Intensity Polar Plot



— 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: 26924.8
Efficiency: 47.8%

Field:
H Angle: 44.2°
V Angle: 43°
Lumens: 47178.9
Efficiency: 83.8%

Spill:
Lumens: 9095.2
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	8.4	14.8	23.8	32.9	40.6	48.3	54.0	59.7	64.4	69.1
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	2.4	2.5	2.5	2.4	2.3	2.3	2.1	1.9
82.5°	2.0	2.5	2.4	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	3.0	2.9	2.8	2.9	3.0	2.8	2.5
77.5°	2.0	2.8	2.7	2.9	3.2	3.2	3.1	3.2	3.2	3.0	2.8
75°	2.0	3.0	2.8	3.1	3.5	3.6	3.5	3.5	3.5	3.4	3.2
72.5°	2.0	3.1	3.0	3.3	3.8	4.0	3.9	4.0	4.1	3.9	3.6
70°	2.0	3.3	3.1	3.5	4.2	4.4	4.3	4.6	4.6	4.4	4.5
67.5°	2.0	3.5	3.3	3.9	4.6	4.8	5.2	5.4	5.3	5.6	5.6
65°	2.0	3.7	3.5	4.3	5.0	5.4	6.0	6.1	6.7	6.8	6.8
62.5°	2.0	3.8	3.8	4.7	5.5	6.3	7.0	7.4	8.2	8.2	8.2
60°	2.0	4.0	4.0	5.1	5.9	7.3	7.9	9.0	9.8	10.0	9.8
57.5°	2.0	4.2	4.5	5.5	6.8	8.2	9.4	10.7	11.9	12.1	13.3
55°	2.0	4.4	4.9	5.9	7.7	9.2	11.0	12.4	14.3	15.1	18.0
52.5°	2.0	4.5	5.4	6.4	8.7	10.3	12.6	14.9	17.0	20.8	23.1
50°	2.0	4.7	5.9	6.8	9.7	11.8	14.2	17.5	20.7	27.0	32.5
47.5°	2.0	4.9	6.4	7.4	10.7	13.4	16.0	20.3	27.0	33.7	43.7
45°	2.0	5.1	6.9	8.1	11.7	15.0	18.5	23.2	33.5	45.2	56.2
42.5°	2.0	5.3	7.4	8.9	12.7	16.7	21.0	27.9	40.4	57.7	75.4
40°	2.0	5.5	7.9	9.9	13.9	18.4	23.8	34.1	49.1	70.9	96.9
37.5°	2.0	5.6	8.5	11.0	15.3	20.1	26.8	40.5	61.3	86.7	120.0
35°	2.0	5.8	9.0	12.1	16.6	22.4	29.9	46.9	73.9	107.0	145.9
32.5°	2.0	6.0	9.6	13.2	18.0	24.8	33.8	53.6	87.0	127.5	171.6
30°	2.0	6.2	10.1	14.4	19.3	27.3	39.4	61.4	100.5	148.0	195.5
27.5°	2.0	6.4	10.7	15.5	21.1	29.7	44.9	71.7	114.2	168.4	217.8
25°	2.0	6.6	11.2	16.6	22.8	32.2	50.3	81.4	128.0	187.6	238.6
22.5°	2.0	6.7	11.8	17.7	24.5	34.6	55.5	90.4	140.7	200.6	261.2
20°	2.0	6.9	12.3	18.7	26.2	37.2	60.6	98.9	152.1	212.6	279.5
17.5°	2.0	7.1	12.8	19.8	27.9	39.6	65.4	106.7	162.4	223.7	296.6
15°	2.0	7.2	13.4	20.8	29.4	41.9	69.7	113.8	171.5	233.8	312.9
12.5°	2.0	7.4	13.9	21.8	31.0	44.1	73.8	120.0	180.7	242.8	328.0
10°	2.0	7.5	14.4	22.8	32.4	46.2	77.5	125.7	190.2	256.3	344.6
7.5°	2.0	7.7	14.8	23.7	33.8	48.1	80.8	130.7	198.9	269.8	365.3
5°	2.0	7.8	15.3	24.6	35.2	49.9	83.7	135.0	206.7	282.5	384.4
2.5°	2.0	7.9	15.7	25.4	36.4	51.5	86.3	138.6	213.6	294.1	401.8
0°	2.0	8.0	16.1	26.2	37.6	53.0	88.5	141.5	219.3	304.4	417.1
-2.5°	2.0	8.3	16.8	27.4	39.3	55.2	91.3	146.3	225.7	311.4	424.2
-5°	2.0	8.7	17.5	28.5	40.8	57.3	93.8	150.3	230.9	316.9	429.1
-7.5°	2.0	9.0	18.2	29.5	42.3	59.2	95.7	153.4	234.7	320.8	431.7
-10°	2.0	9.3	18.8	30.5	43.7	60.9	97.2	155.6	237.0	323.2	432.0
-12.5°	2.0	9.5	19.3	31.4	44.9	62.5	98.3	156.7	237.9	324.0	431.0
-15°	2.0	9.8	19.9	32.2	46.1	63.8	98.8	156.8	236.5	321.9	427.7
-17.5°	2.0	10.0	20.4	32.9	47.1	65.0	98.9	155.4	232.6	318.1	421.4
-20°	2.0	10.3	20.8	33.6	48.0	66.0	98.5	152.8	227.4	312.5	411.9



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 CATALOG NUMBER: EPH-LS-08-0320L-40-70-3S-VHE-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	2.0	10.5	21.2	34.2	48.8	66.7	97.8	149.2	220.8	305.0	399.6
-25°	2.0	10.7	21.6	34.6	49.4	67.4	96.5	144.7	212.8	295.7	386.6
-27.5°	2.0	10.8	21.9	35.0	49.9	67.9	94.7	139.2	203.5	287.3	377.4
-30°	2.0	11.0	22.2	35.4	50.3	68.3	92.4	132.8	196.0	278.0	366.2
-32.5°	2.0	11.1	22.4	35.6	50.8	68.4	89.6	128.7	189.5	267.1	352.8
-35°	2.0	11.2	22.5	35.7	51.2	68.4	88.6	125.1	181.4	254.8	337.2
-37.5°	2.0	11.3	22.7	35.8	51.4	68.3	88.3	121.1	171.5	241.0	320.8
-40°	2.0	11.4	22.7	35.7	51.5	68.4	87.7	116.3	160.0	227.5	302.3
-42.5°	2.0	11.4	22.7	35.6	51.5	68.4	87.0	110.6	151.4	211.4	280.8
-45°	2.0	11.4	22.7	35.6	51.5	68.2	85.9	106.3	143.9	193.4	257.2
-47.5°	2.0	11.4	22.6	35.4	51.3	67.8	84.5	104.7	135.4	174.1	235.2
-50°	2.0	11.4	22.5	35.3	50.9	67.3	83.5	102.6	125.3	162.6	211.5
-52.5°	2.0	11.4	22.3	35.2	50.4	66.7	82.5	100.1	119.7	150.2	187.0
-55°	2.0	11.3	22.0	34.9	49.8	65.6	81.2	97.4	116.0	136.9	171.4
-57.5°	2.0	11.2	21.8	34.6	49.0	64.5	79.7	95.5	112.0	130.2	155.0
-60°	2.0	11.1	21.4	34.2	48.1	63.1	77.9	93.2	108.0	125.3	141.4
-62.5°	2.0	11.0	21.1	33.7	47.3	61.6	76.1	90.6	104.8	119.9	134.7
-65°	2.0	10.9	20.7	33.1	46.5	60.0	74.1	87.8	101.3	114.9	127.5
-67.5°	2.0	10.7	20.3	32.4	45.5	58.4	71.9	84.9	97.5	110.1	121.5
-70°	2.0	10.5	19.9	31.7	44.4	56.7	69.6	81.8	93.8	105.1	116.0
-72.5°	2.0	10.3	19.4	30.9	43.2	54.9	67.1	78.6	89.9	100.2	110.2
-75°	2.0	10.1	18.8	30.1	41.9	53.0	64.5	75.1	85.8	95.0	104.1
-77.5°	2.0	9.8	18.2	29.2	40.6	50.9	61.7	71.4	81.3	89.7	97.8
-80°	2.0	9.6	17.6	28.3	39.2	48.9	58.7	67.5	76.6	84.1	91.4
-82.5°	2.0	9.3	17.0	27.3	37.8	47.0	56.2	63.9	71.7	78.4	85.0
-85°	2.0	9.0	16.3	26.2	36.2	44.9	53.7	60.7	67.7	73.4	79.1
-87.5°	2.0	8.7	15.5	25.0	34.6	42.8	51.0	57.4	63.8	69.0	74.1
-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°	72.8	76.4	79.8	83.1	86.2	89.2	93.2	97.2	100.3	103.3	106.3
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	2.8	2.8	2.6	2.7
75°	3.0	2.8	2.9	2.8	2.8	3.2	3.4	3.4	3.3	3.2	3.2
72.5°	3.6	3.5	3.4	3.0	3.1	3.4	3.4	3.4	4.2	5.6	6.7
70°	4.4	4.3	4.1	3.8	3.7	4.0	5.1	7.0	9.0	10.9	12.7
67.5°	5.3	5.2	4.9	4.9	5.5	6.7	8.1	12.8	17.8	19.4	19.7
65°	6.3	6.1	6.2	7.0	7.9	11.2	15.6	21.3	26.0	25.7	23.7
62.5°	7.4	8.3	8.3	10.0	13.3	17.3	22.4	27.3	31.5	29.4	24.5
60°	10.6	11.2	12.7	15.8	19.2	23.3	28.5	30.1	31.1	30.3	23.8
57.5°	14.6	16.3	19.5	22.4	26.5	28.3	28.7	28.4	30.2	29.0	22.4
55°	20.5	23.4	27.7	30.7	33.1	29.6	29.2	31.0	30.8	28.2	21.8
52.5°	29.2	32.3	38.3	40.5	38.6	35.8	34.9	36.6	35.2	31.7	27.5
50°	38.7	46.3	50.2	52.0	48.6	48.2	44.7	46.9	48.8	47.1	53.0
47.5°	53.3	62.4	65.3	68.4	66.7	72.9	69.7	81.3	82.1	115.8	125.9
45°	70.8	83.0	86.4	94.4	103.3	114.1	132.6	137.5	193.0	226.8	266.7
42.5°	91.9	107.2	121.1	125.7	165.5	187.1	214.9	266.6	318.1	360.6	390.3
40°	119.0	134.6	163.9	198.8	241.2	278.0	331.1	390.8	439.9	472.5	487.9
37.5°	148.9	179.5	217.8	274.3	325.8	372.6	440.4	500.2	543.8	573.9	577.8
35°	181.0	224.5	287.3	344.5	397.7	461.0	528.3	597.1	632.8	645.8	701.2
32.5°	218.5	268.3	342.6	404.8	464.7	536.5	608.1	667.4	699.0	735.7	923.2
30°	253.9	314.2	388.2	454.3	528.5	610.3	678.7	734.6	756.5	949.1	1252.5
27.5°	282.2	354.1	428.4	508.1	593.3	686.8	755.8	792.1	917.1	1202.2	1640.8
25°	308.5	385.9	468.9	568.5	665.4	758.1	828.3	851.5	1111.4	1594.9	1921.8
22.5°	334.2	417.0	513.7	632.4	731.7	818.1	876.8	1017.6	1390.0	2002.3	2172.1
20°	360.0	453.7	562.3	680.7	790.1	870.9	916.0	1192.7	1728.3	2158.9	2349.8
17.5°	384.8	490.7	607.0	721.4	831.7	913.5	971.8	1340.4	1996.3	2299.3	2487.3
15°	409.0	522.2	641.4	759.6	872.1	950.9	1109.2	1557.1	2162.7	2469.3	2667.8
12.5°	432.3	549.2	666.8	792.7	911.2	987.2	1251.6	1819.8	2336.4	2636.7	2851.3
10°	454.1	571.9	688.8	822.9	947.5	1018.8	1385.2	2065.1	2495.3	2755.9	2950.4
7.5°	476.2	592.4	708.8	850.2	981.7	1047.5	1498.3	2199.4	2557.7	2834.6	3020.3
5°	495.7	611.3	732.4	883.8	1014.9	1074.0	1593.8	2289.8	2577.5	2873.9	3070.6
2.5°	512.4	627.0	753.1	915.2	1044.8	1098.0	1658.8	2358.6	2601.3	2901.9	3133.1
0°	526.4	639.7	770.4	942.1	1070.2	1119.8	1701.8	2395.8	2616.4	2914.2	3202.5
-2.5°	536.6	656.6	798.2	964.9	1091.0	1142.5	1715.4	2411.8	2638.4	2981.8	3358.2
-5°	544.2	670.1	821.4	983.1	1108.0	1163.5	1705.7	2396.9	2664.7	3044.3	3457.1
-7.5°	548.9	679.9	839.3	996.6	1122.1	1187.1	1676.6	2379.8	2746.8	3122.6	3506.9
-10°	551.1	684.9	842.0	1001.8	1133.4	1210.7	1626.9	2322.1	2806.1	3152.5	3511.0
-12.5°	553.1	686.0	838.7	1000.9	1140.4	1232.4	1564.4	2252.7	2860.8	3163.8	3485.6
-15°	551.3	683.8	831.2	994.6	1149.4	1259.7	1484.4	2124.0	2885.2	3152.0	3437.8
-17.5°	545.8	678.6	821.0	986.6	1155.1	1285.2	1379.6	1925.7	2754.1	3115.6	3401.5
-20°	536.3	669.1	806.4	971.2	1152.0	1296.2	1376.9	1780.6	2479.3	3044.2	3347.4



REPORT NUMBER: P701326 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	523.8	655.7	789.0	950.8	1133.9	1291.7	1396.1	1620.6	2167.8	2939.5	3266.0
-25°	509.0	638.6	771.1	928.8	1108.6	1283.0	1406.7	1473.2	1910.4	2584.5	3136.6
-27.5°	492.1	618.3	750.7	899.5	1075.5	1257.2	1389.5	1477.4	1701.2	2178.6	2940.1
-30°	472.1	594.8	724.3	865.5	1035.1	1208.4	1360.1	1472.1	1537.4	1901.7	2513.8
-32.5°	449.4	567.7	694.2	832.8	989.4	1156.0	1316.4	1437.4	1527.1	1646.3	2112.5
-35°	427.7	540.1	660.8	796.1	940.4	1096.9	1247.4	1390.2	1502.6	1579.4	1768.9
-37.5°	408.6	510.0	625.9	756.2	895.2	1029.1	1172.9	1320.0	1448.9	1555.1	1622.2
-40°	386.7	477.5	590.0	713.1	836.9	960.5	1094.8	1235.4	1377.3	1494.0	1596.3
-42.5°	362.2	450.2	550.9	662.9	776.7	893.5	1013.1	1146.1	1279.9	1412.9	1520.8
-45°	335.1	419.7	509.2	609.8	713.0	823.2	936.5	1051.6	1178.1	1303.7	1421.7
-47.5°	304.5	385.7	471.1	553.3	649.1	750.2	856.0	964.5	1072.8	1188.1	1302.1
-50°	272.6	348.0	426.8	502.0	583.9	676.0	773.1	874.1	976.3	1073.0	1173.3
-52.5°	243.0	306.9	378.9	451.1	523.0	601.3	689.0	780.3	874.8	968.9	1053.8
-55°	211.1	268.5	328.4	396.5	465.2	533.0	604.2	686.8	767.0	853.6	936.9
-57.5°	187.2	229.4	281.9	338.6	402.9	468.4	531.5	593.7	663.6	736.1	809.6
-60°	168.1	197.8	237.9	286.2	336.9	397.3	459.3	516.7	569.6	623.5	690.1
-62.5°	150.5	174.9	202.8	236.4	280.5	325.3	378.7	433.4	484.8	534.1	583.7
-65°	142.0	154.8	175.8	200.9	226.2	264.4	305.3	347.1	394.2	439.5	485.6
-67.5°	133.0	145.1	156.7	170.4	193.1	215.5	237.6	274.5	311.3	344.5	378.1
-70°	126.1	135.6	146.1	156.2	166.5	179.6	199.8	220.4	240.4	262.4	290.5
-72.5°	119.3	127.8	136.2	144.4	153.7	163.2	172.8	182.9	197.6	214.6	229.9
-75°	112.3	119.7	127.2	134.6	142.2	150.0	158.2	167.1	176.2	185.3	193.5
-77.5°	105.2	112.2	118.5	124.8	131.3	138.3	145.5	152.8	160.3	167.8	174.2
-80°	98.0	104.6	110.1	115.6	121.2	126.9	133.1	139.4	145.7	152.0	157.6
-82.5°	90.6	96.2	101.2	106.1	110.9	115.7	121.1	126.6	132.0	137.5	142.2
-85°	83.4	87.7	92.0	96.3	100.5	104.7	109.5	114.3	118.9	123.5	127.5
-87.5°	78.1	82.1	85.7	89.3	92.7	96.0	100.2	104.3	107.9	111.5	114.8
-90°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.0	0.7	0.7



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	109.3	111.3	113.3	115.0	116.7	119.1	121.4	124.8	128.1	132.1	136.1
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°	3.3	3.4	3.6	3.8	4.1	4.1	3.9	3.9	4.1	4.1	3.9
72.5°	7.4	7.6	7.6	8.5	9.3	9.6	9.8	10.5	11.3	12.3	13.5
70°	14.4	15.8	16.5	16.6	15.9	15.5	15.1	15.1	15.3	16.0	16.9
67.5°	20.7	21.4	21.1	20.9	19.6	18.1	16.4	15.5	15.9	16.7	17.7
65°	23.5	21.6	20.3	19.8	18.6	16.8	14.3	12.5	12.1	11.9	11.7
62.5°	21.1	17.8	16.2	15.3	13.7	12.1	9.8	8.0	7.3	6.8	6.7
60°	18.4	14.3	11.7	10.5	8.8	6.8	5.6	4.3	3.9	3.6	3.7
57.5°	16.0	11.8	8.9	8.3	6.8	5.3	4.3	3.2	2.9	2.7	2.8
55°	16.5	14.4	12.1	10.8	9.0	8.2	7.2	6.5	6.0	6.0	6.5
52.5°	23.2	25.0	22.0	21.2	26.4	26.5	21.9	29.0	33.3	36.6	37.5
50°	60.0	59.7	79.3	76.0	94.1	108.9	109.4	118.4	135.6	147.3	153.7
47.5°	159.5	177.4	200.2	224.2	243.0	266.4	290.1	307.8	312.1	312.6	315.7
45°	300.1	325.7	360.1	385.3	420.8	442.7	460.9	477.4	515.3	550.3	591.1
42.5°	419.1	447.1	482.7	534.0	571.3	671.2	823.9	861.4	866.8	897.9	943.1
40°	513.1	549.7	628.9	741.2	980.4	1195.0	1233.6	1265.9	1280.0	1262.8	1293.5
37.5°	626.8	712.6	890.9	1197.9	1311.4	1369.8	1410.9	1435.5	1465.5	1493.2	1508.3
35°	815.6	1054.8	1211.0	1375.0	1449.2	1478.8	1508.9	1539.3	1562.9	1593.6	1618.1
32.5°	1203.2	1469.5	1485.1	1525.6	1564.3	1602.8	1631.0	1659.9	1685.1	1724.8	1808.2
30°	1593.7	1651.7	1665.9	1669.6	1704.9	1751.0	1775.4	1833.9	1912.9	2003.4	2196.0
27.5°	1801.5	1841.4	1849.8	1853.8	1870.2	1924.7	2025.9	2105.7	2295.2	2525.1	3020.2
25°	2054.6	2083.0	2113.1	2111.9	2136.8	2233.5	2431.3	2599.8	3239.8	3838.8	5129.2
22.5°	2296.1	2382.0	2424.8	2482.1	2566.8	2742.8	3089.9	4064.8	5694.9	7775.2	10364.9
20°	2463.9	2579.5	2694.6	2854.6	3059.4	3424.6	4508.9	7426.3	10910.4	15965.9	20206.2
17.5°	2633.1	2763.7	2967.4	3214.2	3558.2	4784.2	7963.1	12916.8	20071.6	29046.9	36921.7
15°	2853.9	3008.8	3281.5	3634.0	4595.1	7212.0	12514.9	21528.7	32405.5	45022.1	58256.8
12.5°	3004.2	3217.7	3541.9	3997.1	5574.6	10475.8	19014.0	31370.8	46341.0	62238.3	83334.8
10°	3115.3	3370.6	3810.9	4754.7	7615.2	14078.4	24338.6	39759.8	60283.4	84512.1	108631.6
7.5°	3208.6	3552.3	4105.2	5294.4	9375.9	17524.3	30602.9	49346.6	73629.5	102823.9	130872.9
5°	3292.4	3748.1	4388.4	5876.2	10953.4	20019.2	34768.8	56506.2	84626.1	116511.2	147479.2
2.5°	3403.2	3931.4	4572.1	6036.4	11584.8	21401.6	38069.7	62287.5	92477.5	126018.5	159711.7
0°	3557.2	4050.7	4684.4	6138.8	11388.4	22267.8	40092.7	65188.9	95918.2	130011.7	165350.3
-2.5°	3678.3	4119.4	4749.8	6056.2	11292.4	21860.5	39179.7	63497.6	92549.7	125493.8	160744.5
-5°	3756.5	4168.6	4778.5	6087.0	11050.1	20303.5	36483.1	59066.3	85689.9	115428.4	148024.7
-7.5°	3802.2	4186.7	4748.7	5893.0	9949.5	18182.4	31683.1	50898.4	74782.0	102300.2	129238.9
-10°	3829.7	4175.0	4686.5	5618.4	8368.9	14776.5	25013.0	41298.5	61992.3	84166.2	106201.0
-12.5°	3840.0	4150.4	4598.8	5225.1	6709.9	11568.2	19911.4	31469.1	46830.3	65019.6	84436.0
-15°	3819.8	4114.5	4514.1	5056.4	6044.2	8672.1	13893.8	21754.4	33204.1	47091.6	61161.7
-17.5°	3744.8	4077.5	4388.6	4805.0	5386.4	6625.7	9803.8	14849.2	21831.5	31011.0	39128.6
-20°	3645.4	4007.7	4274.1	4642.0	5098.6	5665.8	6685.0	9764.2	13679.4	18993.8	24291.9



REPORT NUMBER: P701326 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-3S-VHE-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3556.9	3888.4	4223.3	4475.8	4833.4	5206.2	5666.5	6547.4	8514.6	11167.9	14526.5
-25°	3475.2	3778.7	4122.4	4395.5	4597.2	4860.7	5149.1	5457.7	6125.9	6752.5	8372.8
-27.5°	3360.3	3674.7	3972.7	4264.2	4458.6	4578.2	4774.7	4966.5	5246.3	5495.2	5971.0
-30°	3226.6	3534.1	3817.7	4082.6	4281.7	4407.5	4504.9	4636.8	4784.9	4935.6	5140.1
-32.5°	2750.0	3369.0	3633.0	3872.2	4077.5	4225.5	4328.6	4415.2	4500.7	4597.2	4704.9
-35°	2227.9	2839.3	3435.0	3621.5	3815.6	4011.4	4164.4	4246.1	4320.5	4388.1	4454.0
-37.5°	1811.4	2242.7	2777.4	3285.6	3521.4	3719.2	3903.0	4045.8	4150.1	4213.5	4272.7
-40°	1648.4	1757.6	2168.9	2587.3	2989.7	3355.1	3542.0	3753.1	3924.7	4017.7	4082.2
-42.5°	1609.4	1659.6	1698.0	1963.1	2283.2	2591.2	2932.1	3270.5	3536.1	3713.1	3844.8
-45°	1524.0	1596.3	1653.5	1677.2	1691.6	1916.2	2180.2	2438.6	2736.9	3044.9	3324.5
-47.5°	1403.1	1497.0	1561.7	1612.3	1642.6	1652.1	1670.6	1728.6	1945.1	2172.8	2389.5
-50°	1268.2	1354.2	1431.7	1502.1	1544.1	1578.1	1610.6	1641.7	1668.1	1701.4	1731.5
-52.5°	1132.3	1211.2	1280.9	1342.7	1398.2	1451.8	1503.3	1541.9	1579.5	1619.9	1652.8
-55°	1011.3	1075.3	1133.7	1187.9	1238.0	1283.3	1329.9	1379.7	1431.2	1481.5	1520.6
-57.5°	881.9	943.1	998.4	1044.4	1084.7	1118.5	1161.3	1207.9	1256.4	1301.2	1335.3
-60°	751.5	805.5	856.1	900.7	938.9	970.5	1010.0	1049.4	1092.6	1131.0	1161.3
-62.5°	627.6	673.1	716.1	755.0	789.8	821.8	856.8	892.1	932.7	968.4	997.4
-65°	524.6	559.9	589.3	616.9	638.4	666.0	700.0	732.5	767.9	798.8	824.7
-67.5°	413.0	445.6	472.6	496.7	515.6	535.3	560.5	586.3	613.8	638.4	660.0
-70°	315.5	337.5	355.0	373.0	392.4	411.2	431.3	453.5	476.5	496.8	514.6
-72.5°	243.4	254.3	264.5	279.2	292.2	305.3	318.0	333.9	351.0	366.3	380.3
-75°	201.1	207.8	215.7	222.6	228.6	235.6	242.6	253.0	264.2	274.8	284.7
-77.5°	180.4	185.3	189.2	192.5	195.3	199.5	204.1	211.7	220.0	228.9	237.9
-80°	162.9	166.6	169.9	172.8	175.3	178.9	182.5	189.2	196.2	203.8	211.3
-82.5°	146.7	149.6	152.3	154.9	157.3	160.3	163.3	169.2	175.3	181.6	187.9
-85°	131.4	133.9	136.2	138.4	140.4	143.0	145.5	150.6	155.7	161.0	166.4
-87.5°	118.0	120.3	122.5	124.5	126.4	128.6	130.8	135.2	139.7	144.2	148.7
-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: P701326 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-3S-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	136.5	136.8	137.2	137.5	137.2	136.8	136.5	136.1	132.1	128.1	124.8
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°	13.8	13.8	14.0	14.1	14.0	13.8	13.8	13.5	12.3	11.3	10.5
70°	17.5	17.9	18.1	18.1	18.1	17.9	17.5	16.9	16.0	15.3	15.1
67.5°	17.8	17.5	17.1	16.8	17.1	17.5	17.8	17.7	16.7	15.9	15.5
65°	11.2	10.5	9.2	8.0	9.2	10.5	11.2	11.7	11.9	12.1	12.5
62.5°	6.5	6.2	6.0	6.0	6.0	6.2	6.5	6.7	6.8	7.3	8.0
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	3.3	3.6	4.0	3.6	3.3	2.9	2.8	2.7	2.9	3.2
55°	6.9	7.6	7.9	8.0	7.9	7.6	6.9	6.5	6.0	6.0	6.5
52.5°	36.2	34.4	32.8	31.5	32.8	34.4	36.2	37.5	36.6	33.3	29.0
50°	156.5	160.6	162.5	162.3	162.5	160.6	156.5	153.7	147.3	135.6	118.4
47.5°	322.4	324.6	322.8	317.8	322.8	324.6	322.4	315.7	312.6	312.1	307.8
45°	640.9	613.1	563.8	520.3	563.8	613.1	640.9	591.1	550.3	515.3	477.4
42.5°	1003.3	1036.5	1061.4	1072.9	1061.4	1036.5	1003.3	943.1	897.9	866.8	861.4
40°	1259.0	1223.5	1216.3	1221.7	1216.3	1223.5	1259.0	1293.5	1262.8	1280.0	1265.9
37.5°	1512.1	1544.4	1568.3	1529.5	1568.3	1544.4	1512.1	1508.3	1493.2	1465.5	1435.5
35°	1675.1	1789.8	1924.5	1965.3	1924.5	1789.8	1675.1	1618.1	1593.6	1562.9	1539.3
32.5°	1947.8	2069.0	2121.4	2134.3	2121.4	2069.0	1947.8	1808.2	1724.8	1685.1	1659.9
30°	2381.6	2502.6	2524.4	2542.0	2524.4	2502.6	2381.6	2196.0	2003.4	1912.9	1833.9
27.5°	3348.8	3619.5	3683.7	3728.9	3683.7	3619.5	3348.8	3020.2	2525.1	2295.2	2105.7
25°	6147.8	6852.0	7311.9	7267.3	7311.9	6852.0	6147.8	5129.2	3838.8	3239.8	2599.8
22.5°	12959.7	14341.8	15079.4	15066.3	15079.4	14341.8	12959.7	10364.9	7775.2	5694.9	4064.8
20°	26247.3	30336.9	32550.5	32298.4	32550.5	30336.9	26247.3	20206.2	15965.9	10910.4	7426.3
17.5°	45766.9	53665.8	59184.1	59410.2	59184.1	53665.8	45766.9	36921.7	29046.9	20071.6	12916.8
15°	70769.3	82489.3	90762.9	90761.8	90762.9	82489.3	70769.3	58256.8	45022.1	32405.5	21528.7
12.5°	101198.6	115207.8	124674.1	126093.8	124674.1	115207.8	101198.6	83334.8	62238.3	46341.0	31370.8
10°	130402.7	146271.0	160581.9	164522.2	160581.9	146271.0	130402.7	108631.6	84512.1	60283.4	39759.8
7.5°	155121.6	180083.7	193119.5	197225.3	193119.5	180083.7	155121.6	130872.9	102823.9	73629.5	49346.6
5°	179384.7	200991.5	211936.3	215104.8	211936.3	200991.5	179384.7	147479.2	116511.2	84626.1	56506.2
2.5°	192148.0	211980.8	227363.8	236285.1	227363.8	211980.8	192148.0	159711.7	126018.5	92477.5	62287.5
0°	196950.1	215792.8	236422.9	250474.3	236422.9	215792.8	196950.1	165350.3	130011.7	95918.2	65188.9
-2.5°	192146.9	210379.5	225582.6	232984.3	225582.6	210379.5	192146.9	160744.5	125493.8	92549.7	63497.6
-5°	177587.1	199032.8	210101.8	212904.1	210101.8	199032.8	177587.1	148024.7	115428.4	85689.9	59066.3
-7.5°	154333.0	174958.4	188529.6	191586.4	188529.6	174958.4	154333.0	129238.9	102300.2	74782.0	50898.4
-10°	128444.4	146061.9	155217.5	157481.6	155217.5	146061.9	128444.4	106201.0	84166.2	61992.3	41298.5
-12.5°	99804.2	112724.1	122070.0	123338.5	122070.0	112724.1	99804.2	84436.0	65019.6	46830.3	31469.1
-15°	74288.8	82833.4	90368.1	91233.9	90368.1	82833.4	74288.8	61161.7	47091.6	33204.1	21754.4
-17.5°	49769.6	56843.8	61059.7	62276.1	61059.7	56843.8	49769.6	39128.6	31011.0	21831.5	14849.2
-20°	29820.2	34882.3	37691.9	37797.5	37691.9	34882.3	29820.2	24291.9	18993.8	13679.4	9764.2



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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°	17300.2	20116.8	21603.4	21574.5	21603.4	20116.8	17300.2	14526.5	11167.9	8514.6	6547.4
-25°	9977.4	11210.6	11702.8	11720.3	11702.8	11210.6	9977.4	8372.8	6752.5	6125.9	5457.7
-27.5°	6353.0	6636.2	6749.5	6767.7	6749.5	6636.2	6353.0	5971.0	5495.2	5246.3	4966.5
-30°	5326.5	5492.1	5568.2	5589.6	5568.2	5492.1	5326.5	5140.1	4935.6	4784.9	4636.8
-32.5°	4806.1	4897.3	4958.9	4949.9	4958.9	4897.3	4806.1	4704.9	4597.2	4500.7	4415.2
-35°	4518.4	4574.9	4609.5	4626.0	4609.5	4574.9	4518.4	4454.0	4388.1	4320.5	4246.1
-37.5°	4331.9	4382.4	4415.1	4424.9	4415.1	4382.4	4331.9	4272.7	4213.5	4150.1	4045.8
-40°	4137.7	4179.8	4206.7	4216.3	4206.7	4179.8	4137.7	4082.2	4017.7	3924.7	3753.1
-42.5°	3928.2	3973.4	3994.9	3995.1	3994.9	3973.4	3928.2	3844.8	3713.1	3536.1	3270.5
-45°	3554.0	3693.0	3762.5	3765.7	3762.5	3693.0	3554.0	3324.5	3044.9	2736.9	2438.6
-47.5°	2586.7	2724.1	2834.5	2916.2	2834.5	2724.1	2586.7	2389.5	2172.8	1945.1	1728.6
-50°	1757.7	1766.8	1767.4	1759.5	1767.4	1766.8	1757.7	1731.5	1701.4	1668.1	1641.7
-52.5°	1678.4	1687.8	1694.7	1698.5	1694.7	1687.8	1678.4	1652.8	1619.9	1579.5	1541.9
-55°	1549.6	1561.4	1566.3	1564.4	1566.3	1561.4	1549.6	1520.6	1481.5	1431.2	1379.7
-57.5°	1358.1	1366.0	1369.6	1368.6	1369.6	1366.0	1358.1	1335.3	1301.2	1256.4	1207.9
-60°	1179.9	1185.7	1189.1	1188.9	1189.1	1185.7	1179.9	1161.3	1131.0	1092.6	1049.4
-62.5°	1013.7	1018.9	1022.7	1023.2	1022.7	1018.9	1013.7	997.4	968.4	932.7	892.1
-65°	837.6	841.6	844.0	843.5	844.0	841.6	837.6	824.7	798.8	767.9	732.5
-67.5°	669.5	672.3	674.6	674.6	674.6	672.3	669.5	660.0	638.4	613.8	586.3
-70°	520.3	520.6	521.7	521.0	521.7	520.6	520.3	514.6	496.8	476.5	453.5
-72.5°	383.5	383.2	383.0	381.5	383.0	383.2	383.5	380.3	366.3	351.0	333.9
-75°	285.7	284.7	283.7	282.3	283.7	284.7	285.7	284.7	274.8	264.2	253.0
-77.5°	238.9	238.9	237.3	235.4	237.3	238.9	238.9	237.9	228.9	220.0	211.7
-80°	211.8	211.6	210.8	209.9	210.8	211.6	211.8	211.3	203.8	196.2	189.2
-82.5°	188.5	188.9	188.7	188.4	188.7	188.9	188.5	187.9	181.6	175.3	169.2
-85°	167.0	167.5	167.3	167.0	167.3	167.5	167.0	166.4	161.0	155.7	150.6
-87.5°	149.1	149.5	149.5	149.5	149.5	149.5	149.1	148.7	144.2	139.7	135.2
-90°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	121.4	119.1	116.7	115.0	113.3	111.3	109.3	106.3	103.3	100.3	97.2
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	2.8	2.8
75°	3.9	4.1	4.1	3.8	3.6	3.4	3.3	3.2	3.2	3.3	3.4
72.5°	9.8	9.6	9.3	8.5	7.6	7.6	7.4	6.7	5.6	4.2	3.4
70°	15.1	15.5	15.9	16.6	16.5	15.8	14.4	12.7	10.9	9.0	7.0
67.5°	16.4	18.1	19.6	20.9	21.1	21.4	20.7	19.7	19.4	17.8	12.8
65°	14.3	16.8	18.6	19.8	20.3	21.6	23.5	23.7	25.7	26.0	21.3
62.5°	9.8	12.1	13.7	15.3	16.2	17.8	21.1	24.5	29.4	31.5	27.3
60°	5.6	6.8	8.8	10.5	11.7	14.3	18.4	23.8	30.3	31.1	30.1
57.5°	4.3	5.3	6.8	8.3	8.9	11.8	16.0	22.4	29.0	30.2	28.4
55°	7.2	8.2	9.0	10.8	12.1	14.4	16.5	21.8	28.2	30.8	31.0
52.5°	21.9	26.5	26.4	21.2	22.0	25.0	23.2	27.5	31.7	35.2	36.6
50°	109.4	108.9	94.1	76.0	79.3	59.7	60.0	53.0	47.1	48.8	46.9
47.5°	290.1	266.4	243.0	224.2	200.2	177.4	159.5	125.9	115.8	82.1	81.3
45°	460.9	442.7	420.8	385.3	360.1	325.7	300.1	266.7	226.8	193.0	137.5
42.5°	823.9	671.2	571.3	534.0	482.7	447.1	419.1	390.3	360.6	318.1	266.6
40°	1233.6	1195.0	980.4	741.2	628.9	549.7	513.1	487.9	472.5	439.9	390.8
37.5°	1410.9	1369.8	1311.4	1197.9	890.9	712.6	626.8	577.8	573.9	543.8	500.2
35°	1508.9	1478.8	1449.2	1375.0	1211.0	1054.8	815.6	701.2	645.8	632.8	597.1
32.5°	1631.0	1602.8	1564.3	1525.6	1485.1	1469.5	1203.2	923.2	735.7	699.0	667.4
30°	1775.4	1751.0	1704.9	1669.6	1665.9	1651.7	1593.7	1252.5	949.1	756.5	734.6
27.5°	2025.9	1924.7	1870.2	1853.8	1849.8	1841.4	1801.5	1640.8	1202.2	917.1	792.1
25°	2431.3	2233.5	2136.8	2111.9	2113.1	2083.0	2054.6	1921.8	1594.9	1111.4	851.5
22.5°	3089.9	2742.8	2566.8	2482.1	2424.8	2382.0	2296.1	2172.1	2002.3	1390.0	1017.6
20°	4508.9	3424.6	3059.4	2854.6	2694.6	2579.5	2463.9	2349.8	2158.9	1728.3	1192.7
17.5°	7963.1	4784.2	3558.2	3214.2	2967.4	2763.7	2633.1	2487.3	2299.3	1996.3	1340.4
15°	12514.9	7212.0	4595.1	3634.0	3281.5	3008.8	2853.9	2667.8	2469.3	2162.7	1557.1
12.5°	19014.0	10475.8	5574.6	3997.1	3541.9	3217.7	3004.2	2851.3	2636.7	2336.4	1819.8
10°	24338.6	14078.4	7615.2	4754.7	3810.9	3370.6	3115.3	2950.4	2755.9	2495.3	2065.1
7.5°	30602.9	17524.3	9375.9	5294.4	4105.2	3552.3	3208.6	3020.3	2834.6	2557.7	2199.4
5°	34768.8	20019.2	10953.4	5876.2	4388.4	3748.1	3292.4	3070.6	2873.9	2577.5	2289.8
2.5°	38069.7	21401.6	11584.8	6036.4	4572.1	3931.4	3403.2	3133.1	2901.9	2601.3	2358.6
0°	40092.7	22267.8	11388.4	6138.8	4684.4	4050.7	3557.2	3202.5	2914.2	2616.4	2395.8
-2.5°	39179.7	21860.5	11292.4	6056.2	4749.8	4119.4	3678.3	3358.2	2981.8	2638.4	2411.8
-5°	36483.1	20303.5	11050.1	6087.0	4778.5	4168.6	3756.5	3457.1	3044.3	2664.7	2396.9
-7.5°	31683.1	18182.4	9949.5	5893.0	4748.7	4186.7	3802.2	3506.9	3122.6	2746.8	2379.8
-10°	25013.0	14776.5	8368.9	5618.4	4686.5	4175.0	3829.7	3511.0	3152.5	2806.1	2322.1
-12.5°	19911.4	11568.2	6709.9	5225.1	4598.8	4150.4	3840.0	3485.6	3163.8	2860.8	2252.7
-15°	13893.8	8672.1	6044.2	5056.4	4514.1	4114.5	3819.8	3437.8	3152.0	2885.2	2124.0
-17.5°	9803.8	6625.7	5386.4	4805.0	4388.6	4077.5	3744.8	3401.5	3115.6	2754.1	1925.7
-20°	6685.0	5665.8	5098.6	4642.0	4274.1	4007.7	3645.4	3347.4	3044.2	2479.3	1780.6



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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°	5666.5	5206.2	4833.4	4475.8	4223.3	3888.4	3556.9	3266.0	2939.5	2167.8	1620.6
-25°	5149.1	4860.7	4597.2	4395.5	4122.4	3778.7	3475.2	3136.6	2584.5	1910.4	1473.2
-27.5°	4774.7	4578.2	4458.6	4264.2	3972.7	3674.7	3360.3	2940.1	2178.6	1701.2	1477.4
-30°	4504.9	4407.5	4281.7	4082.6	3817.7	3534.1	3226.6	2513.8	1901.7	1537.4	1472.1
-32.5°	4328.6	4225.5	4077.5	3872.2	3633.0	3369.0	2750.0	2112.5	1646.3	1527.1	1437.4
-35°	4164.4	4011.4	3815.6	3621.5	3435.0	2839.3	2227.9	1768.9	1579.4	1502.6	1390.2
-37.5°	3903.0	3719.2	3521.4	3285.6	2777.4	2242.7	1811.4	1622.2	1555.1	1448.9	1320.0
-40°	3542.0	3355.1	2989.7	2587.3	2168.9	1757.6	1648.4	1596.3	1494.0	1377.3	1235.4
-42.5°	2932.1	2591.2	2283.2	1963.1	1698.0	1659.6	1609.4	1520.8	1412.9	1279.9	1146.1
-45°	2180.2	1916.2	1691.6	1677.2	1653.5	1596.3	1524.0	1421.7	1303.7	1178.1	1051.6
-47.5°	1670.6	1652.1	1642.6	1612.3	1561.7	1497.0	1403.1	1302.1	1188.1	1072.8	964.5
-50°	1610.6	1578.1	1544.1	1502.1	1431.7	1354.2	1268.2	1173.3	1073.0	976.3	874.1
-52.5°	1503.3	1451.8	1398.2	1342.7	1280.9	1211.2	1132.3	1053.8	968.9	874.8	780.3
-55°	1329.9	1283.3	1238.0	1187.9	1133.7	1075.3	1011.3	936.9	853.6	767.0	686.8
-57.5°	1161.3	1118.5	1084.7	1044.4	998.4	943.1	881.9	809.6	736.1	663.6	593.7
-60°	1010.0	970.5	938.9	900.7	856.1	805.5	751.5	690.1	623.5	569.6	516.7
-62.5°	856.8	821.8	789.8	755.0	716.1	673.1	627.6	583.7	534.1	484.8	433.4
-65°	700.0	666.0	638.4	616.9	589.3	559.9	524.6	485.6	439.5	394.2	347.1
-67.5°	560.5	535.3	515.6	496.7	472.6	445.6	413.0	378.1	344.5	311.3	274.5
-70°	431.3	411.2	392.4	373.0	355.0	337.5	315.5	290.5	262.4	240.4	220.4
-72.5°	318.0	305.3	292.2	279.2	264.5	254.3	243.4	229.9	214.6	197.6	182.9
-75°	242.6	235.6	228.6	222.6	215.7	207.8	201.1	193.5	185.3	176.2	167.1
-77.5°	204.1	199.5	195.3	192.5	189.2	185.3	180.4	174.2	167.8	160.3	152.8
-80°	182.5	178.9	175.3	172.8	169.9	166.6	162.9	157.6	152.0	145.7	139.4
-82.5°	163.3	160.3	157.3	154.9	152.3	149.6	146.7	142.2	137.5	132.0	126.6
-85°	145.5	143.0	140.4	138.4	136.2	133.9	131.4	127.5	123.5	118.9	114.3
-87.5°	130.8	128.6	126.4	124.5	122.5	120.3	118.0	114.8	111.5	107.9	104.3
-90°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.3



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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°	93.2	89.2	86.2	83.1	79.8	76.4	72.8	69.1	64.4	59.7	54.0
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	2.8	3.0	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°	3.4	3.2	2.8	2.8	2.9	2.8	3.0	3.2	3.4	3.5	3.5
72.5°	3.4	3.4	3.1	3.0	3.4	3.5	3.6	3.6	3.9	4.1	4.0
70°	5.1	4.0	3.7	3.8	4.1	4.3	4.4	4.5	4.4	4.6	4.6
67.5°	8.1	6.7	5.5	4.9	4.9	5.2	5.3	5.6	5.6	5.3	5.4
65°	15.6	11.2	7.9	7.0	6.2	6.1	6.3	6.8	6.8	6.7	6.1
62.5°	22.4	17.3	13.3	10.0	8.3	8.3	7.4	8.2	8.2	8.2	7.4
60°	28.5	23.3	19.2	15.8	12.7	11.2	10.6	9.8	10.0	9.8	9.0
57.5°	28.7	28.3	26.5	22.4	19.5	16.3	14.6	13.3	12.1	11.9	10.7
55°	29.2	29.6	33.1	30.7	27.7	23.4	20.5	18.0	15.1	14.3	12.4
52.5°	34.9	35.8	38.6	40.5	38.3	32.3	29.2	23.1	20.8	17.0	14.9
50°	44.7	48.2	48.6	52.0	50.2	46.3	38.7	32.5	27.0	20.7	17.5
47.5°	69.7	72.9	66.7	68.4	65.3	62.4	53.3	43.7	33.7	27.0	20.3
45°	132.6	114.1	103.3	94.4	86.4	83.0	70.8	56.2	45.2	33.5	23.2
42.5°	214.9	187.1	165.5	125.7	121.1	107.2	91.9	75.4	57.7	40.4	27.9
40°	331.1	278.0	241.2	198.8	163.9	134.6	119.0	96.9	70.9	49.1	34.1
37.5°	440.4	372.6	325.8	274.3	217.8	179.5	148.9	120.0	86.7	61.3	40.5
35°	528.3	461.0	397.7	344.5	287.3	224.5	181.0	145.9	107.0	73.9	46.9
32.5°	608.1	536.5	464.7	404.8	342.6	268.3	218.5	171.6	127.5	87.0	53.6
30°	678.7	610.3	528.5	454.3	388.2	314.2	253.9	195.5	148.0	100.5	61.4
27.5°	755.8	686.8	593.3	508.1	428.4	354.1	282.2	217.8	168.4	114.2	71.7
25°	828.3	758.1	665.4	568.5	468.9	385.9	308.5	238.6	187.6	128.0	81.4
22.5°	876.8	818.1	731.7	632.4	513.7	417.0	334.2	261.2	200.6	140.7	90.4
20°	916.0	870.9	790.1	680.7	562.3	453.7	360.0	279.5	212.6	152.1	98.9
17.5°	971.8	913.5	831.7	721.4	607.0	490.7	384.8	296.6	223.7	162.4	106.7
15°	1109.2	950.9	872.1	759.6	641.4	522.2	409.0	312.9	233.8	171.5	113.8
12.5°	1251.6	987.2	911.2	792.7	666.8	549.2	432.3	328.0	242.8	180.7	120.0
10°	1385.2	1018.8	947.5	822.9	688.8	571.9	454.1	344.6	256.3	190.2	125.7
7.5°	1498.3	1047.5	981.7	850.2	708.8	592.4	476.2	365.3	269.8	198.9	130.7
5°	1593.8	1074.0	1014.9	883.8	732.4	611.3	495.7	384.4	282.5	206.7	135.0
2.5°	1658.8	1098.0	1044.8	915.2	753.1	627.0	512.4	401.8	294.1	213.6	138.6
0°	1701.8	1119.8	1070.2	942.1	770.4	639.7	526.4	417.1	304.4	219.3	141.5
-2.5°	1715.4	1142.5	1091.0	964.9	798.2	656.6	536.6	424.2	311.4	225.7	146.3
-5°	1705.7	1163.5	1108.0	983.1	821.4	670.1	544.2	429.1	316.9	230.9	150.3
-7.5°	1676.6	1187.1	1122.1	996.6	839.3	679.9	548.9	431.7	320.8	234.7	153.4
-10°	1626.9	1210.7	1133.4	1001.8	842.0	684.9	551.1	432.0	323.2	237.0	155.6
-12.5°	1564.4	1232.4	1140.4	1000.9	838.7	686.0	553.1	431.0	324.0	237.9	156.7
-15°	1484.4	1259.7	1149.4	994.6	831.2	683.8	551.3	427.7	321.9	236.5	156.8
-17.5°	1379.6	1285.2	1155.1	986.6	821.0	678.6	545.8	421.4	318.1	232.6	155.4
-20°	1376.9	1296.2	1152.0	971.2	806.4	669.1	536.3	411.9	312.5	227.4	152.8



REPORT NUMBER: P701326 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-3S-VHE-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1396.1	1291.7	1133.9	950.8	789.0	655.7	523.8	399.6	305.0	220.8	149.2
-25°	1406.7	1283.0	1108.6	928.8	771.1	638.6	509.0	386.6	295.7	212.8	144.7
-27.5°	1389.5	1257.2	1075.5	899.5	750.7	618.3	492.1	377.4	287.3	203.5	139.2
-30°	1360.1	1208.4	1035.1	865.5	724.3	594.8	472.1	366.2	278.0	196.0	132.8
-32.5°	1316.4	1156.0	989.4	832.8	694.2	567.7	449.4	352.8	267.1	189.5	128.7
-35°	1247.4	1096.9	940.4	796.1	660.8	540.1	427.7	337.2	254.8	181.4	125.1
-37.5°	1172.9	1029.1	895.2	756.2	625.9	510.0	408.6	320.8	241.0	171.5	121.1
-40°	1094.8	960.5	836.9	713.1	590.0	477.5	386.7	302.3	227.5	160.0	116.3
-42.5°	1013.1	893.5	776.7	662.9	550.9	450.2	362.2	280.8	211.4	151.4	110.6
-45°	936.5	823.2	713.0	609.8	509.2	419.7	335.1	257.2	193.4	143.9	106.3
-47.5°	856.0	750.2	649.1	553.3	471.1	385.7	304.5	235.2	174.1	135.4	104.7
-50°	773.1	676.0	583.9	502.0	426.8	348.0	272.6	211.5	162.6	125.3	102.6
-52.5°	689.0	601.3	523.0	451.1	378.9	306.9	243.0	187.0	150.2	119.7	100.1
-55°	604.2	533.0	465.2	396.5	328.4	268.5	211.1	171.4	136.9	116.0	97.4
-57.5°	531.5	468.4	402.9	338.6	281.9	229.4	187.2	155.0	130.2	112.0	95.5
-60°	459.3	397.3	336.9	286.2	237.9	197.8	168.1	141.4	125.3	108.0	93.2
-62.5°	378.7	325.3	280.5	236.4	202.8	174.9	150.5	134.7	119.9	104.8	90.6
-65°	305.3	264.4	226.2	200.9	175.8	154.8	142.0	127.5	114.9	101.3	87.8
-67.5°	237.6	215.5	193.1	170.4	156.7	145.1	133.0	121.5	110.1	97.5	84.9
-70°	199.8	179.6	166.5	156.2	146.1	135.6	126.1	116.0	105.1	93.8	81.8
-72.5°	172.8	163.2	153.7	144.4	136.2	127.8	119.3	110.2	100.2	89.9	78.6
-75°	158.2	150.0	142.2	134.6	127.2	119.7	112.3	104.1	95.0	85.8	75.1
-77.5°	145.5	138.3	131.3	124.8	118.5	112.2	105.2	97.8	89.7	81.3	71.4
-80°	133.1	126.9	121.2	115.6	110.1	104.6	98.0	91.4	84.1	76.6	67.5
-82.5°	121.1	115.7	110.9	106.1	101.2	96.2	90.6	85.0	78.4	71.7	63.9
-85°	109.5	104.7	100.5	96.3	92.0	87.7	83.4	79.1	73.4	67.7	60.7
-87.5°	100.2	96.0	92.7	89.3	85.7	82.1	78.1	74.1	69.0	63.8	57.4
-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: P701326 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	48.3	40.6	32.9	23.8	14.8	8.4	2.0
87.5°	2.2	2.2	2.2	2.2	2.1	2.2	2.0
85°	2.4	2.5	2.5	2.4	2.2	2.3	2.0
82.5°	2.6	2.7	2.7	2.5	2.4	2.5	2.0
80°	2.8	2.9	3.0	2.7	2.5	2.6	2.0
77.5°	3.1	3.2	3.2	2.9	2.7	2.8	2.0
75°	3.5	3.6	3.5	3.1	2.8	3.0	2.0
72.5°	3.9	4.0	3.8	3.3	3.0	3.1	2.0
70°	4.3	4.4	4.2	3.5	3.1	3.3	2.0
67.5°	5.2	4.8	4.6	3.9	3.3	3.5	2.0
65°	6.0	5.4	5.0	4.3	3.5	3.7	2.0
62.5°	7.0	6.3	5.5	4.7	3.8	3.8	2.0
60°	7.9	7.3	5.9	5.1	4.0	4.0	2.0
57.5°	9.4	8.2	6.8	5.5	4.5	4.2	2.0
55°	11.0	9.2	7.7	5.9	4.9	4.4	2.0
52.5°	12.6	10.3	8.7	6.4	5.4	4.5	2.0
50°	14.2	11.8	9.7	6.8	5.9	4.7	2.0
47.5°	16.0	13.4	10.7	7.4	6.4	4.9	2.0
45°	18.5	15.0	11.7	8.1	6.9	5.1	2.0
42.5°	21.0	16.7	12.7	8.9	7.4	5.3	2.0
40°	23.8	18.4	13.9	9.9	7.9	5.5	2.0
37.5°	26.8	20.1	15.3	11.0	8.5	5.6	2.0
35°	29.9	22.4	16.6	12.1	9.0	5.8	2.0
32.5°	33.8	24.8	18.0	13.2	9.6	6.0	2.0
30°	39.4	27.3	19.3	14.4	10.1	6.2	2.0
27.5°	44.9	29.7	21.1	15.5	10.7	6.4	2.0
25°	50.3	32.2	22.8	16.6	11.2	6.6	2.0
22.5°	55.5	34.6	24.5	17.7	11.8	6.7	2.0
20°	60.6	37.2	26.2	18.7	12.3	6.9	2.0
17.5°	65.4	39.6	27.9	19.8	12.8	7.1	2.0
15°	69.7	41.9	29.4	20.8	13.4	7.2	2.0
12.5°	73.8	44.1	31.0	21.8	13.9	7.4	2.0
10°	77.5	46.2	32.4	22.8	14.4	7.5	2.0
7.5°	80.8	48.1	33.8	23.7	14.8	7.7	2.0
5°	83.7	49.9	35.2	24.6	15.3	7.8	2.0
2.5°	86.3	51.5	36.4	25.4	15.7	7.9	2.0
0°	88.5	53.0	37.6	26.2	16.1	8.0	2.0
-2.5°	91.3	55.2	39.3	27.4	16.8	8.3	2.0
-5°	93.8	57.3	40.8	28.5	17.5	8.7	2.0
-7.5°	95.7	59.2	42.3	29.5	18.2	9.0	2.0
-10°	97.2	60.9	43.7	30.5	18.8	9.3	2.0
-12.5°	98.3	62.5	44.9	31.4	19.3	9.5	2.0
-15°	98.8	63.8	46.1	32.2	19.9	9.8	2.0
-17.5°	98.9	65.0	47.1	32.9	20.4	10.0	2.0
-20°	98.5	66.0	48.0	33.6	20.8	10.3	2.0



REPORT NUMBER: P701326 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-3S-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	97.8	66.7	48.8	34.2	21.2	10.5	2.0
-25°	96.5	67.4	49.4	34.6	21.6	10.7	2.0
-27.5°	94.7	67.9	49.9	35.0	21.9	10.8	2.0
-30°	92.4	68.3	50.3	35.4	22.2	11.0	2.0
-32.5°	89.6	68.4	50.8	35.6	22.4	11.1	2.0
-35°	88.6	68.4	51.2	35.7	22.5	11.2	2.0
-37.5°	88.3	68.3	51.4	35.8	22.7	11.3	2.0
-40°	87.7	68.4	51.5	35.7	22.7	11.4	2.0
-42.5°	87.0	68.4	51.5	35.6	22.7	11.4	2.0
-45°	85.9	68.2	51.5	35.6	22.7	11.4	2.0
-47.5°	84.5	67.8	51.3	35.4	22.6	11.4	2.0
-50°	83.5	67.3	50.9	35.3	22.5	11.4	2.0
-52.5°	82.5	66.7	50.4	35.2	22.3	11.4	2.0
-55°	81.2	65.6	49.8	34.9	22.0	11.3	2.0
-57.5°	79.7	64.5	49.0	34.6	21.8	11.2	2.0
-60°	77.9	63.1	48.1	34.2	21.4	11.1	2.0
-62.5°	76.1	61.6	47.3	33.7	21.1	11.0	2.0
-65°	74.1	60.0	46.5	33.1	20.7	10.9	2.0
-67.5°	71.9	58.4	45.5	32.4	20.3	10.7	2.0
-70°	69.6	56.7	44.4	31.7	19.9	10.5	2.0
-72.5°	67.1	54.9	43.2	30.9	19.4	10.3	2.0
-75°	64.5	53.0	41.9	30.1	18.8	10.1	2.0
-77.5°	61.7	50.9	40.6	29.2	18.2	9.8	2.0
-80°	58.7	48.9	39.2	28.3	17.6	9.6	2.0
-82.5°	56.2	47.0	37.8	27.3	17.0	9.3	2.0
-85°	53.7	44.9	36.2	26.2	16.3	9.0	2.0
-87.5°	51.0	42.8	34.6	25.0	15.5	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

