

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: P701446 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 8/29/2023

Test Information

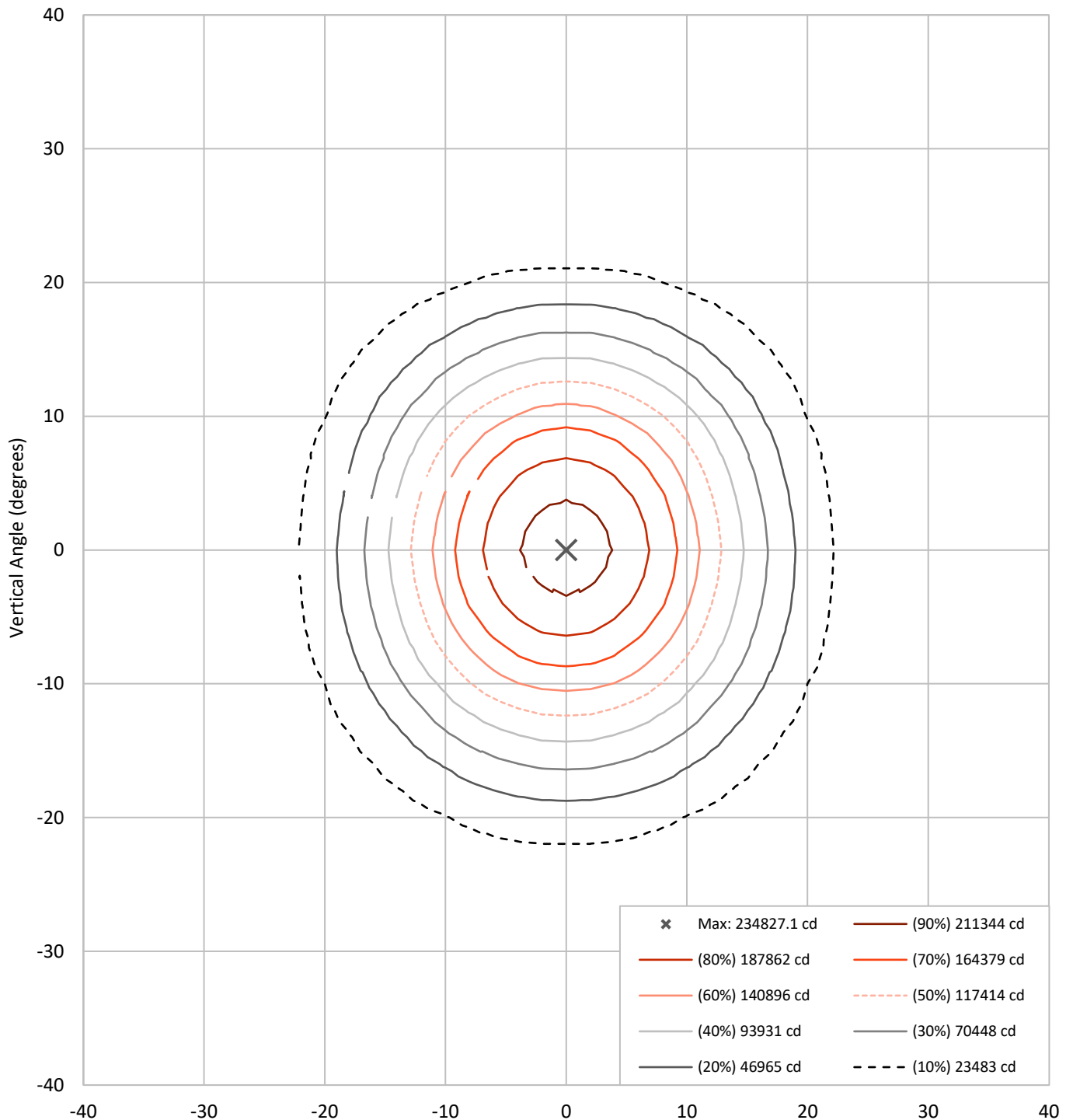
Test Method: LM-79-08
Report Number: P701446 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320L-57-80-3S-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 3S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	52758.7 lumens	Max Intensity:	234827.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	153.3 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:	25242.8 lumens	Field Lumens:	44231.6 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





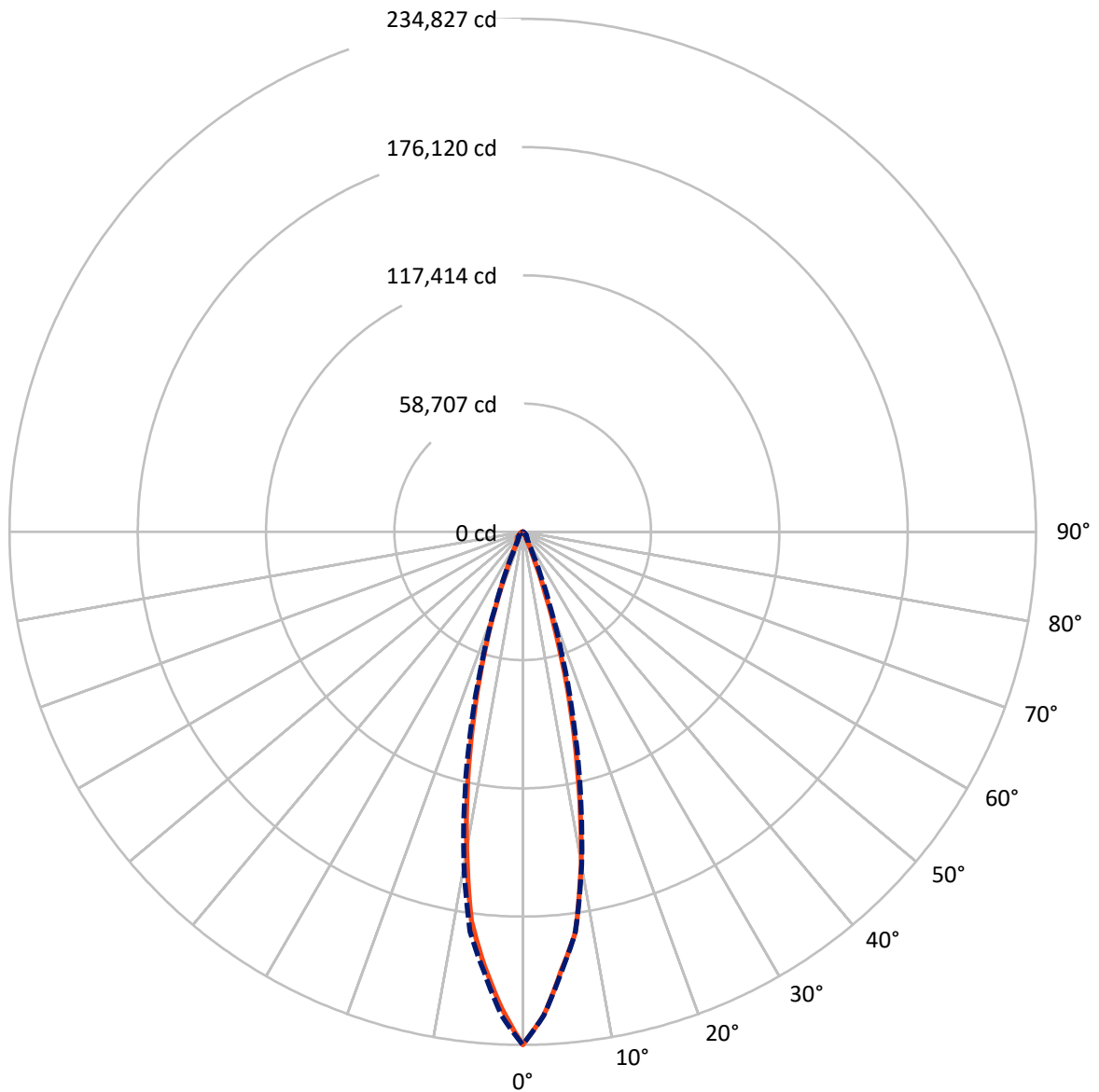
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Lumen Table

90	0.1		0.4		0.8		1.2		1.5		1.2		0.8		0.4		0.1
80	0.1		0.4		0.8		1.2		1.5		1.2		0.8		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		0.2	0.5	0.7	0.6	0.6	0.8	0.9	0.9	0.8	0.6	0.6	0.7	0.5	0.2		
50	0.5	0.7	1.8	3.7	6.8	11.6	16.6	18.8	18.8	16.6	11.6	6.8	3.7	1.8	0.7	0.5	
40		1.8	5.6	11.6	21.8	36.1	43.6	51.2	51.2	43.6	36.1	21.8	11.6	5.6	1.8		
30	1.2	3.1	9.4	20.7	46.3	59.5	128.5	281.1	281.1	128.5	59.5	46.3	20.7	9.4	3.1	1.2	
20		4.0	12.4	33.6	66.4	160.5	967.0	2337.8	2337.8	967.0	160.5	66.4	33.6	12.4	4.0		
10	1.8	4.9	14.3	42.8	80.4	356.3	2348.6	5349.5	5349.5	2348.6	356.3	80.4	42.8	14.3	4.9	1.8	
0		5.4	15.8	45.3	89.1	367.3	2362.9	5294.0	5294.0	2362.9	367.3	89.1	45.3	15.8	5.4		
-10	1.9	5.4	16.3	43.7	88.8	196.9	1008.3	2359.6	2359.6	1008.3	196.9	88.8	43.7	16.3	5.4	1.9	
-20		5.0	15.5	34.6	79.9	120.6	209.0	397.5	397.5	209.0	120.6	79.9	34.6	15.5	5.0		
-30	1.6	4.3	13.3	27.7	55.2	96.5	119.1	132.2	132.2	119.1	96.5	55.2	27.7	13.3	4.3	1.6	
-40		3.3	10.1	21.4	35.0	51.6	75.6	94.2	94.2	75.6	51.6	35.0	21.4	10.1	3.3		
-50	1.3	2.2	6.6	14.0	23.5	32.0	38.9	43.1	43.1	38.9	32.0	23.5	14.0	6.6	2.2	1.3	
-60		1.6	3.5	7.2	12.2	16.9	21.3	24.0	24.0	21.3	16.9	12.2	7.2	3.5	1.6		
-70	1.0	1.6	3.5	7.2	12.2	16.9	21.3	24.0	24.0	21.3	16.9	12.2	7.2	3.5	1.6	1.0	
-80		1.0	5.8	13.4	21.8	26.7	21.8	13.4	5.8	1.0							
-90	0.1		0.4		0.8		1.2		1.5		1.2		0.8		0.4		0.1

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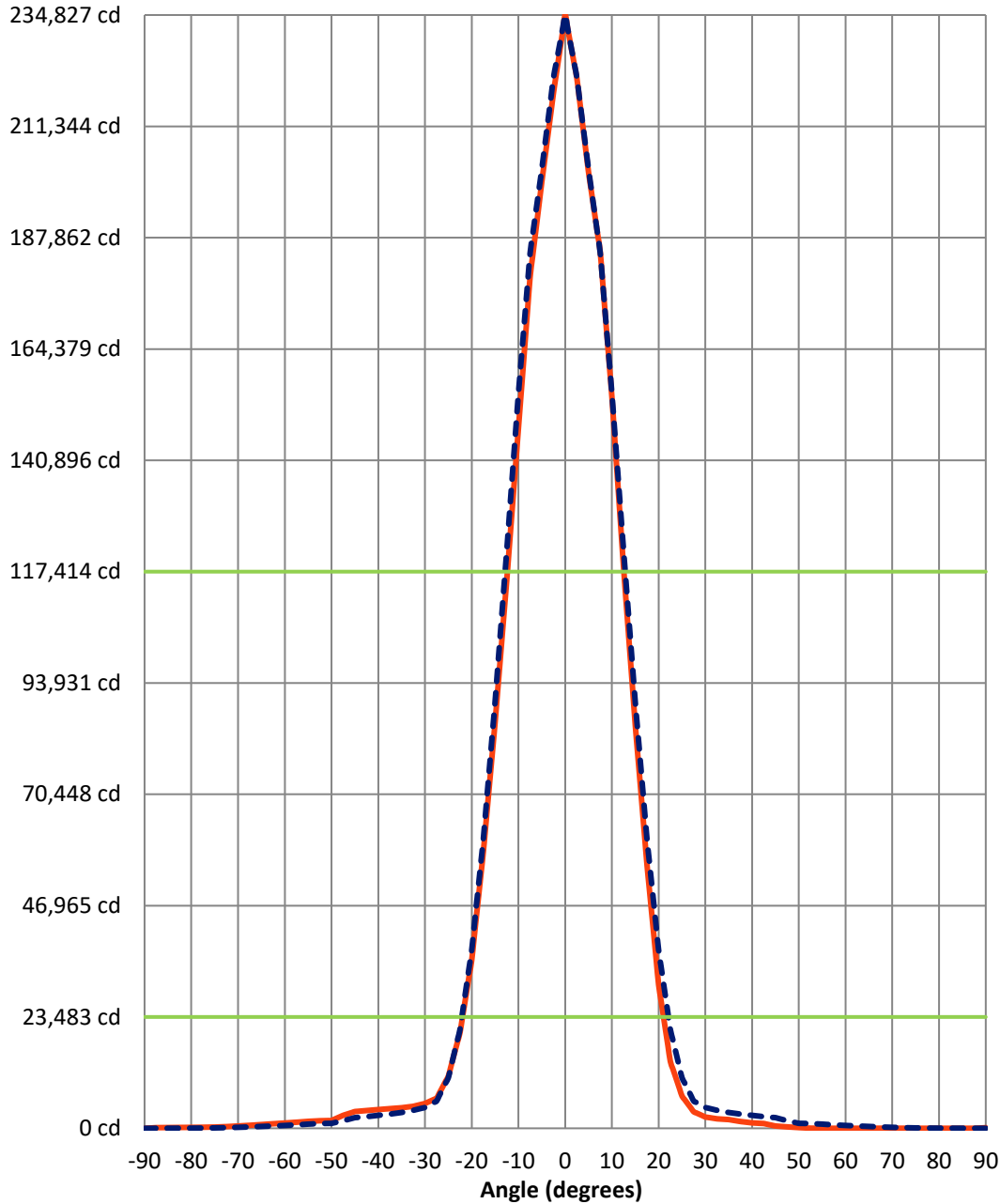
Luminous Intensity Polar Plot



— 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: 25242.8
Efficiency: 47.8%

Field:
H Angle: 44.2°
V Angle: 43°
Lumens: 44231.6
Efficiency: 83.8%

Spill:
Lumens: 8527
Efficiency: 16.2%

— Vertical Distribution through 0-Deg
- - Horizontal Distribution through 0-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	1.9	7.8	13.8	22.3	30.8	38.0	45.3	50.6	55.9	60.4	64.8
87.5°	1.9	2.0	2.0	2.1	2.1	2.1	2.1	1.9	1.7	1.6	1.6
85°	1.9	2.2	2.1	2.2	2.3	2.3	2.2	2.1	2.1	2.0	1.8
82.5°	1.9	2.3	2.2	2.4	2.5	2.5	2.4	2.4	2.5	2.3	2.1
80°	1.9	2.5	2.3	2.5	2.7	2.7	2.6	2.7	2.7	2.6	2.4
77.5°	1.9	2.6	2.5	2.7	2.9	3.0	2.9	3.0	3.0	2.8	2.6
75°	1.9	2.8	2.6	2.8	3.2	3.3	3.3	3.3	3.2	3.2	3.0
72.5°	1.9	3.0	2.7	3.0	3.5	3.7	3.7	3.7	3.8	3.6	3.3
70°	1.9	3.1	2.9	3.2	3.9	4.1	4.1	4.4	4.3	4.1	4.2
67.5°	1.9	3.3	3.1	3.5	4.2	4.5	4.9	5.0	5.0	5.2	5.2
65°	1.9	3.4	3.3	3.9	4.6	5.1	5.7	5.8	6.3	6.4	6.4
62.5°	1.9	3.6	3.5	4.3	5.0	5.9	6.5	7.0	7.7	7.7	7.7
60°	1.9	3.7	3.7	4.7	5.5	6.8	7.4	8.4	9.2	9.4	9.2
57.5°	1.9	3.9	4.1	5.1	6.3	7.7	8.8	10.0	11.2	11.3	12.5
55°	1.9	4.1	4.5	5.5	7.2	8.6	10.3	11.6	13.4	14.2	16.9
52.5°	1.9	4.2	5.0	5.9	8.1	9.6	11.8	13.9	15.9	19.5	21.6
50°	1.9	4.4	5.5	6.3	9.0	11.0	13.3	16.4	19.5	25.3	30.4
47.5°	1.9	4.6	5.9	6.8	9.9	12.5	14.9	19.0	25.3	31.6	41.0
45°	1.9	4.8	6.4	7.6	10.9	14.0	17.3	21.7	31.5	42.4	52.7
42.5°	1.9	4.9	6.9	8.3	11.9	15.6	19.7	26.2	37.9	54.1	70.7
40°	1.9	5.1	7.4	9.2	13.0	17.2	22.3	32.0	46.0	66.5	90.9
37.5°	1.9	5.3	7.9	10.3	14.3	18.9	25.1	37.9	57.4	81.3	112.6
35°	1.9	5.5	8.4	11.3	15.6	21.0	28.0	43.9	69.3	100.4	136.8
32.5°	1.9	5.6	8.9	12.4	16.8	23.3	31.7	50.3	81.6	119.5	160.9
30°	1.9	5.8	9.5	13.4	18.1	25.6	36.9	57.6	94.2	138.7	183.3
27.5°	1.9	6.0	10.0	14.4	19.8	27.9	42.1	67.2	107.0	157.9	204.2
25°	1.9	6.1	10.5	15.5	21.4	30.2	47.1	76.3	120.0	175.9	223.7
22.5°	1.9	6.3	11.0	16.5	23.0	32.5	52.1	84.8	131.9	188.1	244.9
20°	1.9	6.5	11.5	17.5	24.6	34.9	56.9	92.7	142.6	199.4	262.0
17.5°	1.9	6.6	12.0	18.5	26.1	37.2	61.3	100.1	152.3	209.7	278.1
15°	1.9	6.8	12.5	19.5	27.6	39.3	65.4	106.7	160.8	219.2	293.3
12.5°	1.9	6.9	13.0	20.4	29.0	41.4	69.2	112.6	169.4	227.6	307.5
10°	1.9	7.0	13.5	21.3	30.4	43.3	72.6	117.8	178.3	240.2	323.0
7.5°	1.9	7.2	13.9	22.2	31.7	45.1	75.8	122.5	186.5	252.9	342.4
5°	1.9	7.3	14.3	23.0	32.9	46.8	78.5	126.5	193.8	264.8	360.3
2.5°	1.9	7.4	14.7	23.8	34.1	48.3	81.0	129.9	200.2	275.7	376.6
0°	1.9	7.5	15.1	24.5	35.2	49.7	83.0	132.6	205.6	285.4	391.0
-2.5°	1.9	7.8	15.8	25.6	36.8	51.8	85.7	137.1	211.6	292.0	397.7
-5°	1.9	8.1	16.4	26.6	38.2	53.7	87.9	140.9	216.4	297.1	402.2
-7.5°	1.9	8.4	17.0	27.6	39.6	55.5	89.8	143.8	220.0	300.8	404.7
-10°	1.9	8.7	17.6	28.5	40.9	57.1	91.2	145.8	222.2	303.0	405.0
-12.5°	1.9	8.9	18.1	29.3	42.1	58.6	92.2	146.9	223.0	303.7	404.1
-15°	1.9	9.2	18.6	30.1	43.2	59.9	92.7	147.0	221.7	301.8	401.0
-17.5°	1.9	9.4	19.1	30.8	44.1	60.9	92.8	145.7	218.1	298.2	395.1
-20°	1.9	9.6	19.5	31.4	45.0	61.8	92.4	143.2	213.2	293.0	386.2



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

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	1.9	9.8	19.9	32.0	45.7	62.5	91.7	139.9	207.0	286.0	374.7
-25°	1.9	10.0	20.2	32.4	46.3	63.2	90.5	135.7	199.6	277.2	362.5
-27.5°	1.9	10.1	20.5	32.8	46.8	63.7	88.8	130.6	190.9	269.3	353.8
-30°	1.9	10.3	20.8	33.1	47.1	64.0	86.6	124.6	183.8	260.6	343.3
-32.5°	1.9	10.4	21.0	33.3	47.6	64.1	84.0	120.7	177.7	250.4	330.7
-35°	1.9	10.5	21.1	33.4	47.9	64.1	83.0	117.3	170.1	238.9	316.1
-37.5°	1.9	10.6	21.2	33.5	48.2	64.0	82.8	113.6	160.8	225.9	300.7
-40°	1.9	10.7	21.3	33.4	48.3	64.2	82.3	109.0	150.0	213.2	283.4
-42.5°	1.9	10.7	21.3	33.4	48.3	64.1	81.6	103.7	142.0	198.1	263.3
-45°	1.9	10.7	21.3	33.3	48.2	63.9	80.5	99.7	134.9	181.3	241.1
-47.5°	1.9	10.7	21.2	33.2	48.0	63.6	79.2	98.1	126.9	163.2	220.5
-50°	1.9	10.7	21.0	33.1	47.7	63.1	78.3	96.2	117.4	152.4	198.2
-52.5°	1.9	10.7	20.9	33.0	47.2	62.4	77.3	93.9	112.3	140.8	175.2
-55°	1.9	10.6	20.6	32.7	46.6	61.5	76.1	91.3	108.8	128.4	160.6
-57.5°	1.9	10.5	20.4	32.4	45.9	60.4	74.7	89.6	105.0	122.1	145.3
-60°	1.9	10.4	20.1	32.0	45.1	59.2	73.1	87.4	101.3	117.5	132.6
-62.5°	1.9	10.3	19.8	31.6	44.4	57.8	71.4	85.0	98.3	112.3	126.3
-65°	1.9	10.2	19.4	31.0	43.6	56.3	69.5	82.3	95.0	107.8	119.6
-67.5°	1.9	10.0	19.0	30.4	42.7	54.8	67.4	79.6	91.4	103.3	114.0
-70°	1.9	9.8	18.6	29.7	41.6	53.2	65.2	76.7	88.0	98.6	108.8
-72.5°	1.9	9.6	18.1	29.0	40.5	51.5	62.9	73.7	84.3	94.0	103.4
-75°	1.9	9.4	17.6	28.2	39.3	49.7	60.4	70.4	80.4	89.1	97.7
-77.5°	1.9	9.2	17.0	27.4	38.1	47.7	57.8	66.9	76.2	84.1	91.7
-80°	1.9	9.0	16.5	26.5	36.8	45.9	55.0	63.3	71.8	78.9	85.8
-82.5°	1.9	8.7	15.8	25.5	35.4	44.0	52.7	59.9	67.3	73.5	79.8
-85°	1.9	8.4	15.2	24.5	33.9	42.1	50.3	56.9	63.5	68.9	74.2
-87.5°	1.9	8.1	14.5	23.4	32.4	40.1	47.8	53.8	59.8	64.7	69.5
-90°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.6	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°	68.3	71.7	74.9	78.0	80.8	83.6	87.4	91.2	94.0	96.8	99.7
87.5°	1.6	1.6	1.6	1.6	1.5	1.3	1.3	1.3	1.2	1.1	1.2
85°	1.9	1.9	1.9	1.9	1.7	1.5	1.5	1.5	1.6	1.6	1.5
82.5°	2.1	2.2	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.7
80°	2.4	2.5	2.3	2.1	2.2	2.2	2.1	1.9	1.9	1.9	2.0
77.5°	2.6	2.5	2.4	2.4	2.5	2.6	2.6	2.6	2.6	2.5	2.5
75°	2.8	2.6	2.7	2.6	2.6	2.9	3.1	3.1	3.0	2.9	2.9
72.5°	3.3	3.3	3.2	2.8	2.9	3.1	3.1	3.1	3.9	5.2	6.2
70°	4.1	4.1	3.9	3.6	3.5	3.7	4.7	6.5	8.4	10.2	11.9
67.5°	5.0	4.9	4.6	4.6	5.2	6.3	7.6	12.0	16.6	18.2	18.5
65°	5.9	5.7	5.8	6.5	7.4	10.5	14.7	20.0	24.4	24.1	22.2
62.5°	6.9	7.8	7.8	9.4	12.4	16.3	21.0	25.6	29.5	27.6	23.0
60°	9.9	10.5	12.0	14.8	18.0	21.8	26.7	28.2	29.2	28.4	22.3
57.5°	13.7	15.3	18.3	21.0	24.8	26.5	26.9	26.6	28.3	27.2	21.0
55°	19.2	22.0	26.0	28.8	31.0	27.7	27.3	29.1	28.9	26.4	20.4
52.5°	27.4	30.3	35.9	38.0	36.2	33.6	32.7	34.3	33.0	29.7	25.7
50°	36.3	43.4	47.1	48.7	45.5	45.2	41.9	44.0	45.7	44.1	49.7
47.5°	49.9	58.5	61.2	64.1	62.6	68.4	65.4	76.2	76.9	108.6	118.0
45°	66.3	77.8	81.0	88.6	96.9	106.9	124.3	128.9	180.9	212.6	250.0
42.5°	86.1	100.5	113.5	117.9	155.2	175.5	201.5	249.9	298.3	338.1	365.9
40°	111.6	126.3	153.7	186.4	226.1	260.6	310.4	366.4	412.5	443.0	457.4
37.5°	139.6	168.3	204.2	257.2	305.5	349.3	412.9	468.9	509.8	538.1	541.7
35°	169.7	210.4	269.3	323.0	372.9	432.2	495.3	559.7	593.3	605.5	657.4
32.5°	204.8	251.5	321.2	379.6	435.7	503.0	570.1	625.7	655.3	689.7	865.5
30°	238.0	294.5	364.0	426.0	495.5	572.1	636.3	688.8	709.2	889.9	1174.3
27.5°	264.5	332.0	401.7	476.4	556.2	643.9	708.6	742.6	859.8	1127.1	1538.3
25°	289.2	361.8	439.7	533.0	623.9	710.7	776.5	798.3	1042.0	1495.3	1801.8
22.5°	313.4	390.9	481.6	593.0	686.0	767.0	822.0	954.0	1303.1	1877.3	2036.4
20°	337.6	425.3	527.2	638.3	740.8	816.5	858.8	1118.1	1620.3	2024.0	2203.1
17.5°	360.8	460.0	569.0	676.3	779.8	856.5	911.1	1256.7	1871.6	2155.7	2332.0
15°	383.5	489.6	601.3	712.1	817.6	891.5	1039.9	1459.8	2027.6	2315.0	2501.2
12.5°	405.3	514.9	625.1	743.2	854.3	925.5	1173.4	1706.1	2190.4	2472.0	2673.2
10°	425.8	536.2	645.8	771.5	888.3	955.1	1298.7	1936.1	2339.4	2583.7	2766.1
7.5°	446.5	555.4	664.5	797.1	920.4	982.1	1404.7	2062.0	2397.9	2657.5	2831.6
5°	464.7	573.1	686.7	828.6	951.5	1006.9	1494.2	2146.8	2416.4	2694.4	2878.8
2.5°	480.4	587.8	706.0	858.1	979.5	1029.4	1555.1	2211.3	2438.8	2720.6	2937.4
0°	493.5	599.7	722.3	883.3	1003.3	1049.8	1595.5	2246.2	2453.0	2732.1	3002.4
-2.5°	503.1	615.5	748.3	904.7	1022.8	1071.1	1608.2	2261.1	2473.6	2795.5	3148.4
-5°	510.2	628.3	770.1	921.7	1038.7	1090.8	1599.2	2247.1	2498.2	2854.1	3241.1
-7.5°	514.7	637.5	786.8	934.4	1052.0	1112.9	1571.9	2231.2	2575.2	2927.6	3287.8
-10°	516.7	642.2	789.4	939.1	1062.6	1135.1	1525.3	2177.1	2630.9	2955.6	3291.7
-12.5°	518.5	643.1	786.3	938.3	1069.2	1155.4	1466.7	2112.0	2682.1	2966.2	3267.9
-15°	516.9	641.1	779.3	932.5	1077.6	1181.0	1391.7	1991.3	2705.0	2955.1	3223.1
-17.5°	511.7	636.2	769.7	925.0	1083.0	1204.8	1293.4	1805.4	2582.0	2921.0	3189.0
-20°	502.8	627.3	756.1	910.6	1080.1	1215.2	1290.9	1669.3	2324.4	2854.0	3138.3



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	491.1	614.7	739.7	891.5	1063.1	1210.9	1308.9	1519.4	2032.4	2755.8	3061.9
-25°	477.3	598.7	722.9	870.8	1039.3	1202.8	1318.8	1381.2	1791.1	2423.0	2940.7
-27.5°	461.4	579.6	703.8	843.3	1008.3	1178.6	1302.7	1385.1	1594.9	2042.5	2756.4
-30°	442.6	557.6	679.0	811.4	970.4	1132.9	1275.2	1380.1	1441.3	1782.8	2356.8
-32.5°	421.3	532.3	650.8	780.8	927.6	1083.8	1234.2	1347.6	1431.6	1543.4	1980.6
-35°	401.0	506.4	619.6	746.3	881.7	1028.4	1169.5	1303.4	1408.8	1480.8	1658.5
-37.5°	383.1	478.1	586.9	708.9	839.2	964.8	1099.6	1237.6	1358.4	1458.0	1520.9
-40°	362.6	447.7	553.2	668.5	784.6	900.5	1026.5	1158.2	1291.3	1400.6	1496.6
-42.5°	339.6	422.0	516.5	621.5	728.1	837.7	949.8	1074.6	1200.0	1324.7	1425.8
-45°	314.1	393.4	477.3	571.7	668.5	771.8	878.0	985.9	1104.5	1222.2	1332.9
-47.5°	285.5	361.6	441.6	518.7	608.5	703.4	802.5	904.2	1005.8	1113.9	1220.7
-50°	255.5	326.2	400.0	470.6	547.4	633.7	724.8	819.5	915.3	1005.9	1100.0
-52.5°	227.8	287.7	355.2	422.9	490.3	563.7	646.0	731.6	820.2	908.4	988.0
-55°	197.8	251.7	307.9	371.7	436.1	499.6	566.4	643.9	719.1	800.3	878.4
-57.5°	175.5	215.0	264.3	317.4	377.7	439.1	498.3	556.6	622.2	690.0	759.0
-60°	157.6	185.4	223.0	268.3	315.8	372.5	430.6	484.4	534.0	584.5	646.9
-62.5°	141.1	163.9	190.1	221.6	262.9	305.0	355.1	406.4	454.5	500.8	547.2
-65°	133.1	145.1	164.8	188.3	212.0	247.9	286.2	325.5	369.6	412.0	455.3
-67.5°	124.7	136.0	147.0	159.8	181.0	202.0	222.7	257.3	291.8	323.0	354.5
-70°	118.2	127.1	137.0	146.5	156.1	168.4	187.3	206.6	225.3	246.0	272.4
-72.5°	111.8	119.8	127.8	135.5	144.2	153.0	162.0	171.5	185.2	201.2	215.6
-75°	105.3	112.2	119.2	126.2	133.4	140.7	148.3	156.6	165.2	173.8	181.5
-77.5°	98.7	105.2	111.1	117.0	123.1	129.7	136.4	143.3	150.3	157.4	163.3
-80°	91.9	98.0	103.3	108.4	113.7	119.0	124.8	130.7	136.6	142.6	147.8
-82.5°	85.0	90.2	94.9	99.5	104.0	108.5	113.5	118.6	123.8	128.9	133.3
-85°	78.3	82.3	86.3	90.3	94.3	98.2	102.7	107.2	111.5	115.7	119.5
-87.5°	73.3	77.0	80.4	83.7	86.9	90.1	93.9	97.8	101.2	104.5	107.6
-90°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.0	0.6	0.6



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	102.5	104.4	106.2	107.8	109.4	111.6	113.8	117.0	120.1	123.9	127.6
87.5°	1.2	1.2	1.2	0.9	0.6	0.6	0.6	0.6	0.6	0.9	1.3
85°	1.3	1.3	1.3	1.4	1.6	1.7	1.7	1.8	1.8	1.9	1.9
82.5°	1.6	1.6	1.7	1.8	1.9	1.9	1.9	1.9	1.9	2.2	2.5
80°	2.1	2.1	2.2	2.2	2.3	2.1	1.9	1.9	1.9	2.2	2.5
77.5°	2.6	2.6	2.5	2.4	2.2	2.0	1.9	1.9	1.9	1.9	1.9
75°	3.0	3.1	3.3	3.5	3.8	3.9	3.6	3.7	3.9	3.8	3.7
72.5°	6.9	7.1	7.1	7.9	8.7	9.0	9.2	9.9	10.6	11.5	12.6
70°	13.5	14.9	15.4	15.5	14.9	14.5	14.2	14.1	14.4	15.0	15.8
67.5°	19.4	20.0	19.8	19.5	18.4	17.0	15.4	14.5	14.9	15.6	16.6
65°	22.0	20.3	19.0	18.5	17.5	15.7	13.3	11.7	11.3	11.1	11.0
62.5°	19.8	16.7	15.2	14.4	12.8	11.3	9.1	7.4	6.8	6.4	6.3
60°	17.2	13.4	11.0	9.9	8.3	6.4	5.3	4.0	3.6	3.4	3.4
57.5°	15.0	11.1	8.4	7.8	6.4	5.0	4.0	3.0	2.7	2.5	2.6
55°	15.4	13.5	11.3	10.1	8.4	7.6	6.7	6.1	5.5	5.6	6.0
52.5°	21.8	23.4	20.6	19.9	24.8	24.8	20.5	27.1	31.2	34.3	35.2
50°	56.3	55.9	74.3	71.2	88.2	102.0	102.6	111.0	127.1	138.1	144.1
47.5°	149.5	166.3	187.7	210.2	227.8	249.7	272.0	288.6	292.7	293.1	296.0
45°	281.4	305.4	337.6	361.3	394.6	415.1	432.1	447.5	483.2	515.9	554.1
42.5°	392.9	419.1	452.6	500.6	535.7	629.3	772.5	807.6	812.7	841.8	884.2
40°	481.0	515.4	589.6	694.9	919.2	1120.3	1156.6	1186.8	1200.1	1184.0	1212.7
37.5°	587.7	668.2	835.2	1123.1	1229.4	1284.2	1322.7	1345.9	1373.9	1400.0	1414.1
35°	764.7	988.9	1135.3	1289.1	1358.6	1386.4	1414.7	1443.2	1465.2	1494.1	1517.0
32.5°	1128.1	1377.7	1392.4	1430.4	1466.6	1502.7	1529.1	1556.3	1579.8	1617.1	1695.3
30°	1494.1	1548.5	1561.9	1565.3	1598.4	1641.6	1664.6	1719.4	1793.4	1878.3	2058.9
27.5°	1689.0	1726.4	1734.2	1737.9	1753.4	1804.5	1899.4	1974.2	2151.9	2367.4	2831.6
25°	1926.3	1952.9	1981.1	1979.9	2003.3	2094.0	2279.5	2437.4	3037.5	3599.0	4808.8
22.5°	2152.7	2233.2	2273.3	2327.1	2406.5	2571.5	2896.9	3810.9	5339.1	7289.5	9717.4
20°	2310.0	2418.3	2526.3	2676.3	2868.3	3210.7	4227.2	6962.4	10228.8	14968.5	18943.9
17.5°	2468.7	2591.1	2782.0	3013.4	3335.9	4485.3	7465.6	12109.8	18817.8	27232.3	34615.3
15°	2675.6	2820.9	3076.5	3407.0	4308.0	6761.4	11733.1	20183.8	30381.1	42209.6	54617.5
12.5°	2816.5	3016.6	3320.6	3747.4	5226.4	9821.4	17826.2	29411.1	43446.1	58350.3	78128.9
10°	2920.7	3160.0	3572.8	4457.7	7139.5	13198.9	22818.1	37276.0	56517.5	79232.6	101845.4
7.5°	3008.1	3330.4	3848.7	4963.7	8790.1	16429.5	28691.1	46263.9	69029.9	96400.5	122697.2
5°	3086.7	3514.0	4114.2	5509.1	10269.1	18768.6	32596.8	52976.3	79339.5	109232.7	138266.2
2.5°	3190.6	3685.9	4286.5	5659.2	10861.1	20064.7	35691.5	58396.4	86700.4	118146.1	149734.5
0°	3335.0	3797.7	4391.7	5755.3	10677.0	20876.8	37588.1	61116.5	89926.2	121889.8	155020.8
-2.5°	3448.5	3862.1	4453.0	5677.9	10586.9	20494.8	36732.1	59530.9	86768.0	117654.2	150702.8
-5°	3521.8	3908.3	4479.9	5706.8	10359.8	19035.2	34203.9	55376.4	80336.8	108217.5	138777.5
-7.5°	3564.8	3925.2	4452.1	5524.9	9327.9	17046.6	29703.8	47718.7	70110.3	95909.5	121165.3
-10°	3590.5	3914.2	4393.8	5267.4	7846.1	13853.4	23450.5	38718.6	58119.6	78908.3	99566.6
-12.5°	3600.1	3891.1	4311.6	4898.7	6290.8	10845.5	18667.5	29503.2	43904.8	60957.9	79161.3
-15°	3581.2	3857.5	4232.1	4740.5	5666.6	8130.4	13025.9	20395.4	31129.8	44149.9	57340.9
-17.5°	3510.9	3822.8	4114.5	4504.8	5049.9	6211.8	9191.3	13921.6	20467.7	29073.8	36684.3
-20°	3417.7	3757.4	4007.1	4352.0	4780.1	5311.8	6267.4	9154.2	12824.8	17807.2	22774.4



REPORT NUMBER: P701446 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3334.7	3645.5	3959.5	4196.2	4531.5	4881.0	5312.5	6138.3	7982.8	10470.2	13619.1
-25°	3258.2	3542.6	3864.8	4120.9	4310.0	4557.1	4827.4	5116.7	5743.3	6330.7	7849.8
-27.5°	3150.4	3445.1	3724.5	3997.8	4180.1	4292.2	4476.4	4656.2	4918.6	5151.9	5598.0
-30°	3025.0	3313.3	3579.2	3827.5	4014.2	4132.2	4223.5	4347.1	4486.0	4627.3	4819.0
-32.5°	2578.2	3158.5	3406.1	3630.3	3822.9	3961.5	4058.2	4139.4	4219.6	4310.0	4411.0
-35°	2088.7	2661.9	3220.4	3395.3	3577.2	3760.8	3904.2	3980.8	4050.6	4114.0	4175.7
-37.5°	1698.3	2102.7	2603.9	3080.3	3301.4	3486.8	3659.2	3793.1	3890.9	3950.2	4005.8
-40°	1545.4	1647.8	2033.4	2425.7	2803.0	3145.5	3320.8	3518.7	3679.5	3766.7	3827.2
-42.5°	1508.8	1555.9	1591.9	1840.5	2140.6	2429.4	2749.0	3066.2	3315.2	3481.2	3604.6
-45°	1428.8	1496.5	1550.2	1572.4	1586.0	1796.5	2044.0	2286.3	2565.9	2854.7	3116.8
-47.5°	1315.4	1403.4	1464.1	1511.5	1539.9	1548.9	1566.3	1620.6	1823.6	2037.0	2240.2
-50°	1188.9	1269.6	1342.3	1408.3	1447.6	1479.5	1509.9	1539.2	1563.9	1595.1	1623.3
-52.5°	1061.5	1135.5	1200.8	1258.8	1310.9	1361.1	1409.4	1445.6	1480.8	1518.7	1549.5
-55°	948.1	1008.1	1062.8	1113.7	1160.7	1203.1	1246.8	1293.5	1341.7	1388.9	1425.6
-57.5°	826.8	884.2	936.0	979.1	1016.9	1048.6	1088.7	1132.4	1177.9	1219.9	1251.9
-60°	704.5	755.2	802.7	844.4	880.3	909.8	946.9	983.9	1024.4	1060.4	1088.8
-62.5°	588.3	631.1	671.4	707.9	740.5	770.4	803.3	836.4	874.4	907.9	935.1
-65°	491.8	524.9	552.5	578.4	598.6	624.5	656.3	686.8	719.9	748.9	773.1
-67.5°	387.2	417.8	443.1	465.7	483.4	501.9	525.5	549.8	575.4	598.5	618.8
-70°	295.9	316.4	332.8	349.7	367.9	385.5	404.4	425.2	446.8	465.8	482.5
-72.5°	228.3	238.4	248.0	261.7	273.9	286.2	298.1	313.0	329.1	343.5	356.5
-75°	188.6	194.9	202.2	208.7	214.3	220.9	227.5	237.2	247.6	257.6	266.9
-77.5°	169.1	173.7	177.4	180.4	183.1	187.0	191.3	198.5	206.2	214.6	223.0
-80°	152.7	156.2	159.3	162.0	164.4	167.7	171.0	177.3	184.0	191.1	198.1
-82.5°	137.5	140.2	142.7	145.2	147.5	150.3	153.1	158.6	164.3	170.3	176.2
-85°	123.2	125.6	127.7	129.7	131.6	134.0	136.4	141.2	145.9	150.9	155.9
-87.5°	110.7	112.8	114.9	116.7	118.4	120.5	122.6	126.8	131.0	135.2	139.4
-90°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6



REPORT NUMBER: P701446 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-57-80-3S-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	127.9	128.2	128.6	128.9	128.6	128.2	127.9	127.6	123.9	120.1	117.0
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.9	0.6	0.6
85°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8
82.5°	2.2	1.9	2.2	2.5	2.2	1.9	2.2	2.5	2.2	1.9	1.9
80°	2.2	1.9	2.2	2.5	2.2	1.9	2.2	2.5	2.2	1.9	1.9
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
75°	3.1	2.5	2.2	1.9	2.2	2.5	3.1	3.7	3.8	3.9	3.7
72.5°	12.9	12.9	13.1	13.2	13.1	12.9	12.9	12.6	11.5	10.6	9.9
70°	16.4	16.8	17.0	17.0	17.0	16.8	16.4	15.8	15.0	14.4	14.1
67.5°	16.7	16.4	16.0	15.7	16.0	16.4	16.7	16.6	15.6	14.9	14.5
65°	10.5	9.8	8.6	7.5	8.6	9.8	10.5	11.0	11.1	11.3	11.7
62.5°	6.1	5.9	5.7	5.7	5.7	5.9	6.1	6.3	6.4	6.8	7.4
60°	3.6	3.8	3.8	3.8	3.8	3.8	3.6	3.4	3.4	3.6	4.0
57.5°	2.7	3.0	3.4	3.8	3.4	3.0	2.7	2.6	2.5	2.7	3.0
55°	6.4	7.1	7.4	7.5	7.4	7.1	6.4	6.0	5.6	5.5	6.1
52.5°	34.0	32.3	30.7	29.5	30.7	32.3	34.0	35.2	34.3	31.2	27.1
50°	146.8	150.6	152.3	152.1	152.3	150.6	146.8	144.1	138.1	127.1	111.0
47.5°	302.3	304.4	302.6	298.0	302.6	304.4	302.3	296.0	293.1	292.7	288.6
45°	600.9	574.9	528.6	487.8	528.6	574.9	600.9	554.1	515.9	483.2	447.5
42.5°	940.6	971.8	995.1	1005.8	995.1	971.8	940.6	884.2	841.8	812.7	807.6
40°	1180.4	1147.1	1140.3	1145.4	1140.3	1147.1	1180.4	1212.7	1184.0	1200.1	1186.8
37.5°	1417.6	1447.9	1470.3	1433.9	1470.3	1447.9	1417.6	1414.1	1400.0	1373.9	1345.9
35°	1570.5	1678.1	1804.3	1842.6	1804.3	1678.1	1570.5	1517.0	1494.1	1465.2	1443.2
32.5°	1826.1	1939.7	1988.9	2001.0	1988.9	1939.7	1826.1	1695.3	1617.1	1579.8	1556.3
30°	2232.9	2346.3	2366.7	2383.2	2366.7	2346.3	2232.9	2058.9	1878.3	1793.4	1719.4
27.5°	3139.6	3393.4	3453.5	3495.9	3453.5	3393.4	3139.6	2831.6	2367.4	2151.9	1974.2
25°	5763.8	6423.9	6855.1	6813.3	6855.1	6423.9	5763.8	4808.8	3599.0	3037.5	2437.4
22.5°	12150.1	13445.9	14137.4	14125.1	14137.4	13445.9	12150.1	9717.4	7289.5	5339.1	3810.9
20°	24607.6	28441.8	30517.1	30280.7	30517.1	28441.8	24607.6	18943.9	14968.5	10228.8	6962.4
17.5°	42907.8	50313.3	55486.9	55698.8	55486.9	50313.3	42907.8	34615.3	27232.3	18817.8	12109.8
15°	66348.3	77336.1	85092.9	85091.9	85092.9	77336.1	66348.3	54617.5	42209.6	30381.1	20183.8
12.5°	94876.7	108010.7	116885.7	118216.7	116885.7	108010.7	94876.7	78128.9	58350.3	43446.1	29411.1
10°	122256.4	137133.4	150550.4	154244.5	150550.4	137133.4	122256.4	101845.4	79232.6	56517.5	37276.0
7.5°	145431.1	168833.8	181055.4	184904.6	181055.4	168833.8	145431.1	122697.2	96400.5	69029.9	46263.9
5°	168178.6	188435.5	198696.6	201667.2	198696.6	188435.5	168178.6	138266.2	109232.7	79339.5	52976.3
2.5°	180144.4	198738.3	213160.4	221524.3	213160.4	198738.3	180144.4	149734.5	118146.1	86700.4	58396.4
0°	184646.5	202312.1	221653.5	234827.1	221653.5	202312.1	184646.5	155020.8	121889.8	89926.2	61116.5
-2.5°	180143.5	197237.1	211490.4	218429.8	211490.4	197237.1	180143.5	150702.8	117654.2	86768.0	59530.9
-5°	166493.2	186599.2	196976.7	199603.9	196976.7	186599.2	166493.2	138777.5	108217.5	80336.8	55376.4
-7.5°	144691.8	164028.7	176752.2	179618.0	176752.2	164028.7	144691.8	121165.3	95909.5	70110.3	47718.7
-10°	120420.5	136937.4	145521.1	147643.7	145521.1	136937.4	120420.5	99566.6	78908.3	58119.6	38718.6
-12.5°	93569.4	105682.2	114444.3	115633.6	114444.3	105682.2	93569.4	79161.3	60957.9	43904.8	29503.2
-15°	69648.0	77658.7	84722.8	85534.5	84722.8	77658.7	69648.0	57340.9	44149.9	31129.8	20395.4
-17.5°	46660.5	53292.8	57245.3	58385.7	57245.3	53292.8	46660.5	36684.3	29073.8	20467.7	13921.6
-20°	27957.4	32703.2	35337.3	35436.3	35337.3	32703.2	27957.4	22774.4	17807.2	12824.8	9154.2



REPORT NUMBER: P701446 (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°	16219.5	18860.1	20253.8	20226.8	20253.8	18860.1	16219.5	13619.1	10470.2	7982.8	6138.3
-25°	9354.1	10510.3	10971.7	10988.1	10971.7	10510.3	9354.1	7849.8	6330.7	5743.3	5116.7
-27.5°	5956.1	6221.6	6327.8	6344.9	6327.8	6221.6	5956.1	5598.0	5151.9	4918.6	4656.2
-30°	4993.7	5149.0	5220.4	5240.4	5220.4	5149.0	4993.7	4819.0	4627.3	4486.0	4347.1
-32.5°	4505.9	4591.5	4649.2	4640.7	4649.2	4591.5	4505.9	4411.0	4310.0	4219.6	4139.4
-35°	4236.2	4289.1	4321.5	4337.0	4321.5	4289.1	4236.2	4175.7	4114.0	4050.6	3980.8
-37.5°	4061.3	4108.6	4139.2	4148.4	4139.2	4108.6	4061.3	4005.8	3950.2	3890.9	3793.1
-40°	3879.3	3918.7	3943.9	3952.9	3943.9	3918.7	3879.3	3827.2	3766.7	3679.5	3518.7
-42.5°	3682.8	3725.2	3745.3	3745.5	3745.3	3725.2	3682.8	3604.6	3481.2	3315.2	3066.2
-45°	3332.0	3462.2	3527.5	3530.5	3527.5	3462.2	3332.0	3116.8	2854.7	2565.9	2286.3
-47.5°	2425.1	2553.9	2657.4	2734.0	2657.4	2553.9	2425.1	2240.2	2037.0	1823.6	1620.6
-50°	1647.9	1656.4	1657.0	1649.6	1657.0	1656.4	1647.9	1623.3	1595.1	1563.9	1539.2
-52.5°	1573.6	1582.4	1588.8	1592.4	1588.8	1582.4	1573.6	1549.5	1518.7	1480.8	1445.6
-55°	1452.8	1463.9	1468.4	1466.6	1468.4	1463.9	1452.8	1425.6	1388.9	1341.7	1293.5
-57.5°	1273.3	1280.6	1284.1	1283.1	1284.1	1280.6	1273.3	1251.9	1219.9	1177.9	1132.4
-60°	1106.2	1111.7	1114.8	1114.6	1114.8	1111.7	1106.2	1088.8	1060.4	1024.4	983.9
-62.5°	950.4	955.3	958.8	959.3	958.8	955.3	950.4	935.1	907.9	874.4	836.4
-65°	785.3	788.9	791.3	790.8	791.3	788.9	785.3	773.1	748.9	719.9	686.8
-67.5°	627.7	630.3	632.5	632.4	632.5	630.3	627.7	618.8	598.5	575.4	549.8
-70°	487.8	488.1	489.1	488.5	489.1	488.1	487.8	482.5	465.8	446.8	425.2
-72.5°	359.6	359.3	359.0	357.7	359.0	359.3	359.6	356.5	343.5	329.1	313.0
-75°	267.9	266.9	266.0	264.7	266.0	266.9	267.9	266.9	257.6	247.6	237.2
-77.5°	224.0	223.9	222.5	220.7	222.5	223.9	224.0	223.0	214.6	206.2	198.5
-80°	198.6	198.4	197.7	196.8	197.7	198.4	198.6	198.1	191.1	184.0	177.3
-82.5°	176.8	177.1	176.9	176.7	176.9	177.1	176.8	176.2	170.3	164.3	158.6
-85°	156.6	157.1	156.8	156.5	156.8	157.1	156.6	155.9	150.9	145.9	141.2
-87.5°	139.8	140.2	140.2	140.2	140.2	140.2	139.8	139.4	135.2	131.0	126.8
-90°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	113.8	111.6	109.4	107.8	106.2	104.4	102.5	99.7	96.8	94.0	91.2
87.5°	0.6	0.6	0.6	0.9	1.2	1.2	1.2	1.2	1.1	1.2	1.3
85°	1.7	1.7	1.6	1.4	1.3	1.3	1.3	1.5	1.6	1.6	1.5
82.5°	1.9	1.9	1.9	1.8	1.7	1.6	1.6	1.7	1.9	1.9	1.9
80°	1.9	2.1	2.3	2.2	2.2	2.1	2.1	2.0	1.9	1.9	1.9
77.5°	1.9	2.0	2.2	2.4	2.5	2.6	2.6	2.5	2.5	2.6	2.6
75°	3.6	3.9	3.8	3.5	3.3	3.1	3.0	2.9	2.9	3.0	3.1
72.5°	9.2	9.0	8.7	7.9	7.1	7.1	6.9	6.2	5.2	3.9	3.1
70°	14.2	14.5	14.9	15.5	15.4	14.9	13.5	11.9	10.2	8.4	6.5
67.5°	15.4	17.0	18.4	19.5	19.8	20.0	19.4	18.5	18.2	16.6	12.0
65°	13.3	15.7	17.5	18.5	19.0	20.3	22.0	22.2	24.1	24.4	20.0
62.5°	9.1	11.3	12.8	14.4	15.2	16.7	19.8	23.0	27.6	29.5	25.6
60°	5.3	6.4	8.3	9.9	11.0	13.4	17.2	22.3	28.4	29.2	28.2
57.5°	4.0	5.0	6.4	7.8	8.4	11.1	15.0	21.0	27.2	28.3	26.6
55°	6.7	7.6	8.4	10.1	11.3	13.5	15.4	20.4	26.4	28.9	29.1
52.5°	20.5	24.8	24.8	19.9	20.6	23.4	21.8	25.7	29.7	33.0	34.3
50°	102.6	102.0	88.2	71.2	74.3	55.9	56.3	49.7	44.1	45.7	44.0
47.5°	272.0	249.7	227.8	210.2	187.7	166.3	149.5	118.0	108.6	76.9	76.2
45°	432.1	415.1	394.6	361.3	337.6	305.4	281.4	250.0	212.6	180.9	128.9
42.5°	772.5	629.3	535.7	500.6	452.6	419.1	392.9	365.9	338.1	298.3	249.9
40°	1156.6	1120.3	919.2	694.9	589.6	515.4	481.0	457.4	443.0	412.5	366.4
37.5°	1322.7	1284.2	1229.4	1123.1	835.2	668.2	587.7	541.7	538.1	509.8	468.9
35°	1414.7	1386.4	1358.6	1289.1	1135.3	988.9	764.7	657.4	605.5	593.3	559.7
32.5°	1529.1	1502.7	1466.6	1430.4	1392.4	1377.7	1128.1	865.5	689.7	655.3	625.7
30°	1664.6	1641.6	1598.4	1565.3	1561.9	1548.5	1494.1	1174.3	889.9	709.2	688.8
27.5°	1899.4	1804.5	1753.4	1737.9	1734.2	1726.4	1689.0	1538.3	1127.1	859.8	742.6
25°	2279.5	2094.0	2003.3	1979.9	1981.1	1952.9	1926.3	1801.8	1495.3	1042.0	798.3
22.5°	2896.9	2571.5	2406.5	2327.1	2273.3	2233.2	2152.7	2036.4	1877.3	1303.1	954.0
20°	4227.2	3210.7	2868.3	2676.3	2526.3	2418.3	2310.0	2203.1	2024.0	1620.3	1118.1
17.5°	7465.6	4485.3	3335.9	3013.4	2782.0	2591.1	2468.7	2332.0	2155.7	1871.6	1256.7
15°	11733.1	6761.4	4308.0	3407.0	3076.5	2820.9	2675.6	2501.2	2315.0	2027.6	1459.8
12.5°	17826.2	9821.4	5226.4	3747.4	3320.6	3016.6	2816.5	2673.2	2472.0	2190.4	1706.1
10°	22818.1	13198.9	7139.5	4457.7	3572.8	3160.0	2920.7	2766.1	2583.7	2339.4	1936.1
7.5°	28691.1	16429.5	8790.1	4963.7	3848.7	3330.4	3008.1	2831.6	2657.5	2397.9	2062.0
5°	32596.8	18768.6	10269.1	5509.1	4114.2	3514.0	3086.7	2878.8	2694.4	2416.4	2146.8
2.5°	35691.5	20064.7	10861.1	5659.2	4286.5	3685.9	3190.6	2937.4	2720.6	2438.8	2211.3
0°	37588.1	20876.8	10677.0	5755.3	4391.7	3797.7	3335.0	3002.4	2732.1	2453.0	2246.2
-2.5°	36732.1	20494.8	10586.9	5677.9	4453.0	3862.1	3448.5	3148.4	2795.5	2473.6	2261.1
-5°	34203.9	19035.2	10359.8	5706.8	4479.9	3908.3	3521.8	3241.1	2854.1	2498.2	2247.1
-7.5°	29703.8	17046.6	9327.9	5524.9	4452.1	3925.2	3564.8	3287.8	2927.6	2575.2	2231.2
-10°	23450.5	13853.4	7846.1	5267.4	4393.8	3914.2	3590.5	3291.7	2955.6	2630.9	2177.1
-12.5°	18667.5	10845.5	6290.8	4898.7	4311.6	3891.1	3600.1	3267.9	2966.2	2682.1	2112.0
-15°	13025.9	8130.4	5666.6	4740.5	4232.1	3857.5	3581.2	3223.1	2955.1	2705.0	1991.3
-17.5°	9191.3	6211.8	5049.9	4504.8	4114.5	3822.8	3510.9	3189.0	2921.0	2582.0	1805.4
-20°	6267.4	5311.8	4780.1	4352.0	4007.1	3757.4	3417.7	3138.3	2854.0	2324.4	1669.3



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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°	5312.5	4881.0	4531.5	4196.2	3959.5	3645.5	3334.7	3061.9	2755.8	2032.4	1519.4
-25°	4827.4	4557.1	4310.0	4120.9	3864.8	3542.6	3258.2	2940.7	2423.0	1791.1	1381.2
-27.5°	4476.4	4292.2	4180.1	3997.8	3724.5	3445.1	3150.4	2756.4	2042.5	1594.9	1385.1
-30°	4223.5	4132.2	4014.2	3827.5	3579.2	3313.3	3025.0	2356.8	1782.8	1441.3	1380.1
-32.5°	4058.2	3961.5	3822.9	3630.3	3406.1	3158.5	2578.2	1980.6	1543.4	1431.6	1347.6
-35°	3904.2	3760.8	3577.2	3395.3	3220.4	2661.9	2088.7	1658.5	1480.8	1408.8	1303.4
-37.5°	3659.2	3486.8	3301.4	3080.3	2603.9	2102.7	1698.3	1520.9	1458.0	1358.4	1237.6
-40°	3320.8	3145.5	2803.0	2425.7	2033.4	1647.8	1545.4	1496.6	1400.6	1291.3	1158.2
-42.5°	2749.0	2429.4	2140.6	1840.5	1591.9	1555.9	1508.8	1425.8	1324.7	1200.0	1074.6
-45°	2044.0	1796.5	1586.0	1572.4	1550.2	1496.5	1428.8	1332.9	1222.2	1104.5	985.9
-47.5°	1566.3	1548.9	1539.9	1511.5	1464.1	1403.4	1315.4	1220.7	1113.9	1005.8	904.2
-50°	1509.9	1479.5	1447.6	1408.3	1342.3	1269.6	1188.9	1100.0	1005.9	915.3	819.5
-52.5°	1409.4	1361.1	1310.9	1258.8	1200.8	1135.5	1061.5	988.0	908.4	820.2	731.6
-55°	1246.8	1203.1	1160.7	1113.7	1062.8	1008.1	948.1	878.4	800.3	719.1	643.9
-57.5°	1088.7	1048.6	1016.9	979.1	936.0	884.2	826.8	759.0	690.0	622.2	556.6
-60°	946.9	909.8	880.3	844.4	802.7	755.2	704.5	646.9	584.5	534.0	484.4
-62.5°	803.3	770.4	740.5	707.9	671.4	631.1	588.3	547.2	500.8	454.5	406.4
-65°	656.3	624.5	598.6	578.4	552.5	524.9	491.8	455.3	412.0	369.6	325.5
-67.5°	525.5	501.9	483.4	465.7	443.1	417.8	387.2	354.5	323.0	291.8	257.3
-70°	404.4	385.5	367.9	349.7	332.8	316.4	295.9	272.4	246.0	225.3	206.6
-72.5°	298.1	286.2	273.9	261.7	248.0	238.4	228.3	215.6	201.2	185.2	171.5
-75°	227.5	220.9	214.3	208.7	202.2	194.9	188.6	181.5	173.8	165.2	156.6
-77.5°	191.3	187.0	183.1	180.4	177.4	173.7	169.1	163.3	157.4	150.3	143.3
-80°	171.0	167.7	164.4	162.0	159.3	156.2	152.7	147.8	142.6	136.6	130.7
-82.5°	153.1	150.3	147.5	145.2	142.7	140.2	137.5	133.3	128.9	123.8	118.6
-85°	136.4	134.0	131.6	129.7	127.7	125.6	123.2	119.5	115.7	111.5	107.2
-87.5°	122.6	120.5	118.4	116.7	114.9	112.8	110.7	107.6	104.5	101.2	97.8
-90°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	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°	87.4	83.6	80.8	78.0	74.9	71.7	68.3	64.8	60.4	55.9	50.6
87.5°	1.3	1.3	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.9
85°	1.5	1.5	1.7	1.9	1.9	1.9	1.9	1.8	2.0	2.1	2.1
82.5°	1.9	1.9	1.9	1.9	2.1	2.2	2.1	2.1	2.3	2.5	2.4
80°	2.1	2.2	2.2	2.1	2.3	2.5	2.4	2.4	2.6	2.7	2.7
77.5°	2.6	2.6	2.5	2.4	2.4	2.5	2.6	2.6	2.8	3.0	3.0
75°	3.1	2.9	2.6	2.6	2.7	2.6	2.8	3.0	3.2	3.2	3.3
72.5°	3.1	3.1	2.9	2.8	3.2	3.3	3.3	3.3	3.6	3.8	3.7
70°	4.7	3.7	3.5	3.6	3.9	4.1	4.1	4.2	4.1	4.3	4.4
67.5°	7.6	6.3	5.2	4.6	4.6	4.9	5.0	5.2	5.2	5.0	5.0
65°	14.7	10.5	7.4	6.5	5.8	5.7	5.9	6.4	6.4	6.3	5.8
62.5°	21.0	16.3	12.4	9.4	7.8	7.8	6.9	7.7	7.7	7.7	7.0
60°	26.7	21.8	18.0	14.8	12.0	10.5	9.9	9.2	9.4	9.2	8.4
57.5°	26.9	26.5	24.8	21.0	18.3	15.3	13.7	12.5	11.3	11.2	10.0
55°	27.3	27.7	31.0	28.8	26.0	22.0	19.2	16.9	14.2	13.4	11.6
52.5°	32.7	33.6	36.2	38.0	35.9	30.3	27.4	21.6	19.5	15.9	13.9
50°	41.9	45.2	45.5	48.7	47.1	43.4	36.3	30.4	25.3	19.5	16.4
47.5°	65.4	68.4	62.6	64.1	61.2	58.5	49.9	41.0	31.6	25.3	19.0
45°	124.3	106.9	96.9	88.6	81.0	77.8	66.3	52.7	42.4	31.5	21.7
42.5°	201.5	175.5	155.2	117.9	113.5	100.5	86.1	70.7	54.1	37.9	26.2
40°	310.4	260.6	226.1	186.4	153.7	126.3	111.6	90.9	66.5	46.0	32.0
37.5°	412.9	349.3	305.5	257.2	204.2	168.3	139.6	112.6	81.3	57.4	37.9
35°	495.3	432.2	372.9	323.0	269.3	210.4	169.7	136.8	100.4	69.3	43.9
32.5°	570.1	503.0	435.7	379.6	321.2	251.5	204.8	160.9	119.5	81.6	50.3
30°	636.3	572.1	495.5	426.0	364.0	294.5	238.0	183.3	138.7	94.2	57.6
27.5°	708.6	643.9	556.2	476.4	401.7	332.0	264.5	204.2	157.9	107.0	67.2
25°	776.5	710.7	623.9	533.0	439.7	361.8	289.2	223.7	175.9	120.0	76.3
22.5°	822.0	767.0	686.0	593.0	481.6	390.9	313.4	244.9	188.1	131.9	84.8
20°	858.8	816.5	740.8	638.3	527.2	425.3	337.6	262.0	199.4	142.6	92.7
17.5°	911.1	856.5	779.8	676.3	569.0	460.0	360.8	278.1	209.7	152.3	100.1
15°	1039.9	891.5	817.6	712.1	601.3	489.6	383.5	293.3	219.2	160.8	106.7
12.5°	1173.4	925.5	854.3	743.2	625.1	514.9	405.3	307.5	227.6	169.4	112.6
10°	1298.7	955.1	888.3	771.5	645.8	536.2	425.8	323.0	240.2	178.3	117.8
7.5°	1404.7	982.1	920.4	797.1	664.5	555.4	446.5	342.4	252.9	186.5	122.5
5°	1494.2	1006.9	951.5	828.6	686.7	573.1	464.7	360.3	264.8	193.8	126.5
2.5°	1555.1	1029.4	979.5	858.1	706.0	587.8	480.4	376.6	275.7	200.2	129.9
0°	1595.5	1049.8	1003.3	883.3	722.3	599.7	493.5	391.0	285.4	205.6	132.6
-2.5°	1608.2	1071.1	1022.8	904.7	748.3	615.5	503.1	397.7	292.0	211.6	137.1
-5°	1599.2	1090.8	1038.7	921.7	770.1	628.3	510.2	402.2	297.1	216.4	140.9
-7.5°	1571.9	1112.9	1052.0	934.4	786.8	637.5	514.7	404.7	300.8	220.0	143.8
-10°	1525.3	1135.1	1062.6	939.1	789.4	642.2	516.7	405.0	303.0	222.2	145.8
-12.5°	1466.7	1155.4	1069.2	938.3	786.3	643.1	518.5	404.1	303.7	223.0	146.9
-15°	1391.7	1181.0	1077.6	932.5	779.3	641.1	516.9	401.0	301.8	221.7	147.0
-17.5°	1293.4	1204.8	1083.0	925.0	769.7	636.2	511.7	395.1	298.2	218.1	145.7
-20°	1290.9	1215.2	1080.1	910.6	756.1	627.3	502.8	386.2	293.0	213.2	143.2



REPORT NUMBER: P701446 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-57-80-3S-VHE-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1308.9	1210.9	1063.1	891.5	739.7	614.7	491.1	374.7	286.0	207.0	139.9
-25°	1318.8	1202.8	1039.3	870.8	722.9	598.7	477.3	362.5	277.2	199.6	135.7
-27.5°	1302.7	1178.6	1008.3	843.3	703.8	579.6	461.4	353.8	269.3	190.9	130.6
-30°	1275.2	1132.9	970.4	811.4	679.0	557.6	442.6	343.3	260.6	183.8	124.6
-32.5°	1234.2	1083.8	927.6	780.8	650.8	532.3	421.3	330.7	250.4	177.7	120.7
-35°	1169.5	1028.4	881.7	746.3	619.6	506.4	401.0	316.1	238.9	170.1	117.3
-37.5°	1099.6	964.8	839.2	708.9	586.9	478.1	383.1	300.7	225.9	160.8	113.6
-40°	1026.5	900.5	784.6	668.5	553.2	447.7	362.6	283.4	213.2	150.0	109.0
-42.5°	949.8	837.7	728.1	621.5	516.5	422.0	339.6	263.3	198.1	142.0	103.7
-45°	878.0	771.8	668.5	571.7	477.3	393.4	314.1	241.1	181.3	134.9	99.7
-47.5°	802.5	703.4	608.5	518.7	441.6	361.6	285.5	220.5	163.2	126.9	98.1
-50°	724.8	633.7	547.4	470.6	400.0	326.2	255.5	198.2	152.4	117.4	96.2
-52.5°	646.0	563.7	490.3	422.9	355.2	287.7	227.8	175.2	140.8	112.3	93.9
-55°	566.4	499.6	436.1	371.7	307.9	251.7	197.8	160.6	128.4	108.8	91.3
-57.5°	498.3	439.1	377.7	317.4	264.3	215.0	175.5	145.3	122.1	105.0	89.6
-60°	430.6	372.5	315.8	268.3	223.0	185.4	157.6	132.6	117.5	101.3	87.4
-62.5°	355.1	305.0	262.9	221.6	190.1	163.9	141.1	126.3	112.3	98.3	85.0
-65°	286.2	247.9	212.0	188.3	164.8	145.1	133.1	119.6	107.8	95.0	82.3
-67.5°	222.7	202.0	181.0	159.8	147.0	136.0	124.7	114.0	103.3	91.4	79.6
-70°	187.3	168.4	156.1	146.5	137.0	127.1	118.2	108.8	98.6	88.0	76.7
-72.5°	162.0	153.0	144.2	135.5	127.8	119.8	111.8	103.4	94.0	84.3	73.7
-75°	148.3	140.7	133.4	126.2	119.2	112.2	105.3	97.7	89.1	80.4	70.4
-77.5°	136.4	129.7	123.1	117.0	111.1	105.2	98.7	91.7	84.1	76.2	66.9
-80°	124.8	119.0	113.7	108.4	103.3	98.0	91.9	85.8	78.9	71.8	63.3
-82.5°	113.5	108.5	104.0	99.5	94.9	90.2	85.0	79.8	73.5	67.3	59.9
-85°	102.7	98.2	94.3	90.3	86.3	82.3	78.3	74.2	68.9	63.5	56.9
-87.5°	93.9	90.1	86.9	83.7	80.4	77.0	73.3	69.5	64.7	59.8	53.8
-90°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.6



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	45.3	38.0	30.8	22.3	13.8	7.8	1.9
87.5°	2.1	2.1	2.1	2.1	2.0	2.0	1.9
85°	2.2	2.3	2.3	2.2	2.1	2.2	1.9
82.5°	2.4	2.5	2.5	2.4	2.2	2.3	1.9
80°	2.6	2.7	2.7	2.5	2.3	2.5	1.9
77.5°	2.9	3.0	2.9	2.7	2.5	2.6	1.9
75°	3.3	3.3	3.2	2.8	2.6	2.8	1.9
72.5°	3.7	3.7	3.5	3.0	2.7	3.0	1.9
70°	4.1	4.1	3.9	3.2	2.9	3.1	1.9
67.5°	4.9	4.5	4.2	3.5	3.1	3.3	1.9
65°	5.7	5.1	4.6	3.9	3.3	3.4	1.9
62.5°	6.5	5.9	5.0	4.3	3.5	3.6	1.9
60°	7.4	6.8	5.5	4.7	3.7	3.7	1.9
57.5°	8.8	7.7	6.3	5.1	4.1	3.9	1.9
55°	10.3	8.6	7.2	5.5	4.5	4.1	1.9
52.5°	11.8	9.6	8.1	5.9	5.0	4.2	1.9
50°	13.3	11.0	9.0	6.3	5.5	4.4	1.9
47.5°	14.9	12.5	9.9	6.8	5.9	4.6	1.9
45°	17.3	14.0	10.9	7.6	6.4	4.8	1.9
42.5°	19.7	15.6	11.9	8.3	6.9	4.9	1.9
40°	22.3	17.2	13.0	9.2	7.4	5.1	1.9
37.5°	25.1	18.9	14.3	10.3	7.9	5.3	1.9
35°	28.0	21.0	15.6	11.3	8.4	5.5	1.9
32.5°	31.7	23.3	16.8	12.4	8.9	5.6	1.9
30°	36.9	25.6	18.1	13.4	9.5	5.8	1.9
27.5°	42.1	27.9	19.8	14.4	10.0	6.0	1.9
25°	47.1	30.2	21.4	15.5	10.5	6.1	1.9
22.5°	52.1	32.5	23.0	16.5	11.0	6.3	1.9
20°	56.9	34.9	24.6	17.5	11.5	6.5	1.9
17.5°	61.3	37.2	26.1	18.5	12.0	6.6	1.9
15°	65.4	39.3	27.6	19.5	12.5	6.8	1.9
12.5°	69.2	41.4	29.0	20.4	13.0	6.9	1.9
10°	72.6	43.3	30.4	21.3	13.5	7.0	1.9
7.5°	75.8	45.1	31.7	22.2	13.9	7.2	1.9
5°	78.5	46.8	32.9	23.0	14.3	7.3	1.9
2.5°	81.0	48.3	34.1	23.8	14.7	7.4	1.9
0°	83.0	49.7	35.2	24.5	15.1	7.5	1.9
-2.5°	85.7	51.8	36.8	25.6	15.8	7.8	1.9
-5°	87.9	53.7	38.2	26.6	16.4	8.1	1.9
-7.5°	89.8	55.5	39.6	27.6	17.0	8.4	1.9
-10°	91.2	57.1	40.9	28.5	17.6	8.7	1.9
-12.5°	92.2	58.6	42.1	29.3	18.1	8.9	1.9
-15°	92.7	59.9	43.2	30.1	18.6	9.2	1.9
-17.5°	92.8	60.9	44.1	30.8	19.1	9.4	1.9
-20°	92.4	61.8	45.0	31.4	19.5	9.6	1.9



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

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	91.7	62.5	45.7	32.0	19.9	9.8	1.9
-25°	90.5	63.2	46.3	32.4	20.2	10.0	1.9
-27.5°	88.8	63.7	46.8	32.8	20.5	10.1	1.9
-30°	86.6	64.0	47.1	33.1	20.8	10.3	1.9
-32.5°	84.0	64.1	47.6	33.3	21.0	10.4	1.9
-35°	83.0	64.1	47.9	33.4	21.1	10.5	1.9
-37.5°	82.8	64.0	48.2	33.5	21.2	10.6	1.9
-40°	82.3	64.2	48.3	33.4	21.3	10.7	1.9
-42.5°	81.6	64.1	48.3	33.4	21.3	10.7	1.9
-45°	80.5	63.9	48.2	33.3	21.3	10.7	1.9
-47.5°	79.2	63.6	48.0	33.2	21.2	10.7	1.9
-50°	78.3	63.1	47.7	33.1	21.0	10.7	1.9
-52.5°	77.3	62.4	47.2	33.0	20.9	10.7	1.9
-55°	76.1	61.5	46.6	32.7	20.6	10.6	1.9
-57.5°	74.7	60.4	45.9	32.4	20.4	10.5	1.9
-60°	73.1	59.2	45.1	32.0	20.1	10.4	1.9
-62.5°	71.4	57.8	44.4	31.6	19.8	10.3	1.9
-65°	69.5	56.3	43.6	31.0	19.4	10.2	1.9
-67.5°	67.4	54.8	42.7	30.4	19.0	10.0	1.9
-70°	65.2	53.2	41.6	29.7	18.6	9.8	1.9
-72.5°	62.9	51.5	40.5	29.0	18.1	9.6	1.9
-75°	60.4	49.7	39.3	28.2	17.6	9.4	1.9
-77.5°	57.8	47.7	38.1	27.4	17.0	9.2	1.9
-80°	55.0	45.9	36.8	26.5	16.5	9.0	1.9
-82.5°	52.7	44.0	35.4	25.5	15.8	8.7	1.9
-85°	50.3	42.1	33.9	24.5	15.2	8.4	1.9
-87.5°	47.8	40.1	32.4	23.4	14.5	8.1	1.9
-90°	1.9	1.9	1.9	1.9	1.9	1.9	1.9

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

