

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: P701422 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-57-70-3S-VHE-S**

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701422 (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-57-70-3S-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 5700K, 70 CRI LEDS AND 3S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

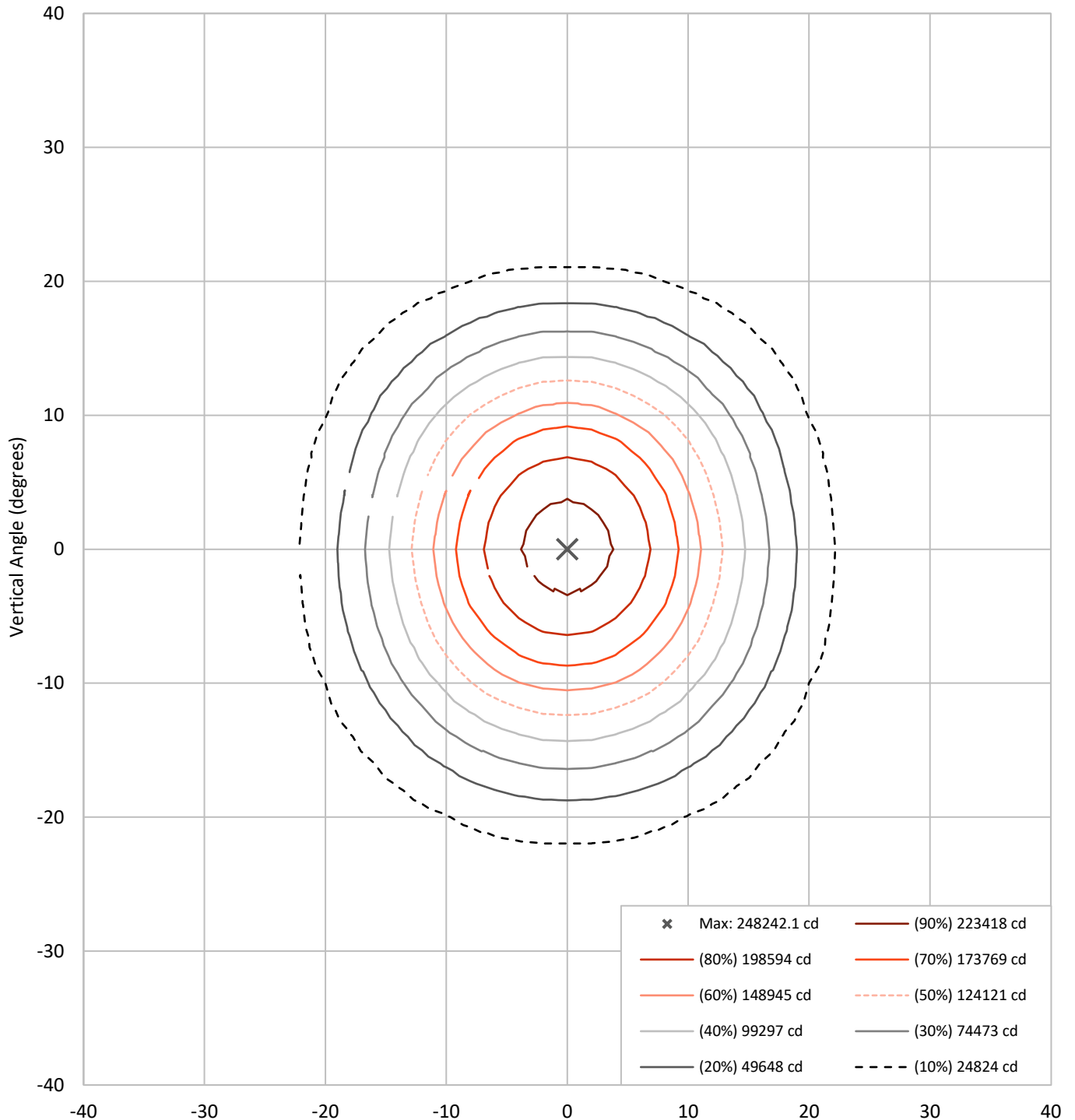
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	55772.6 lumens	Max Intensity:	248242.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	162.0 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:	26684.8 lumens	Field Lumens:	46758.5 lumens
Beam Efficiency:	47.8%	Field Efficiency:	83.8%

Input Watts (W): 344.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Candela Plot





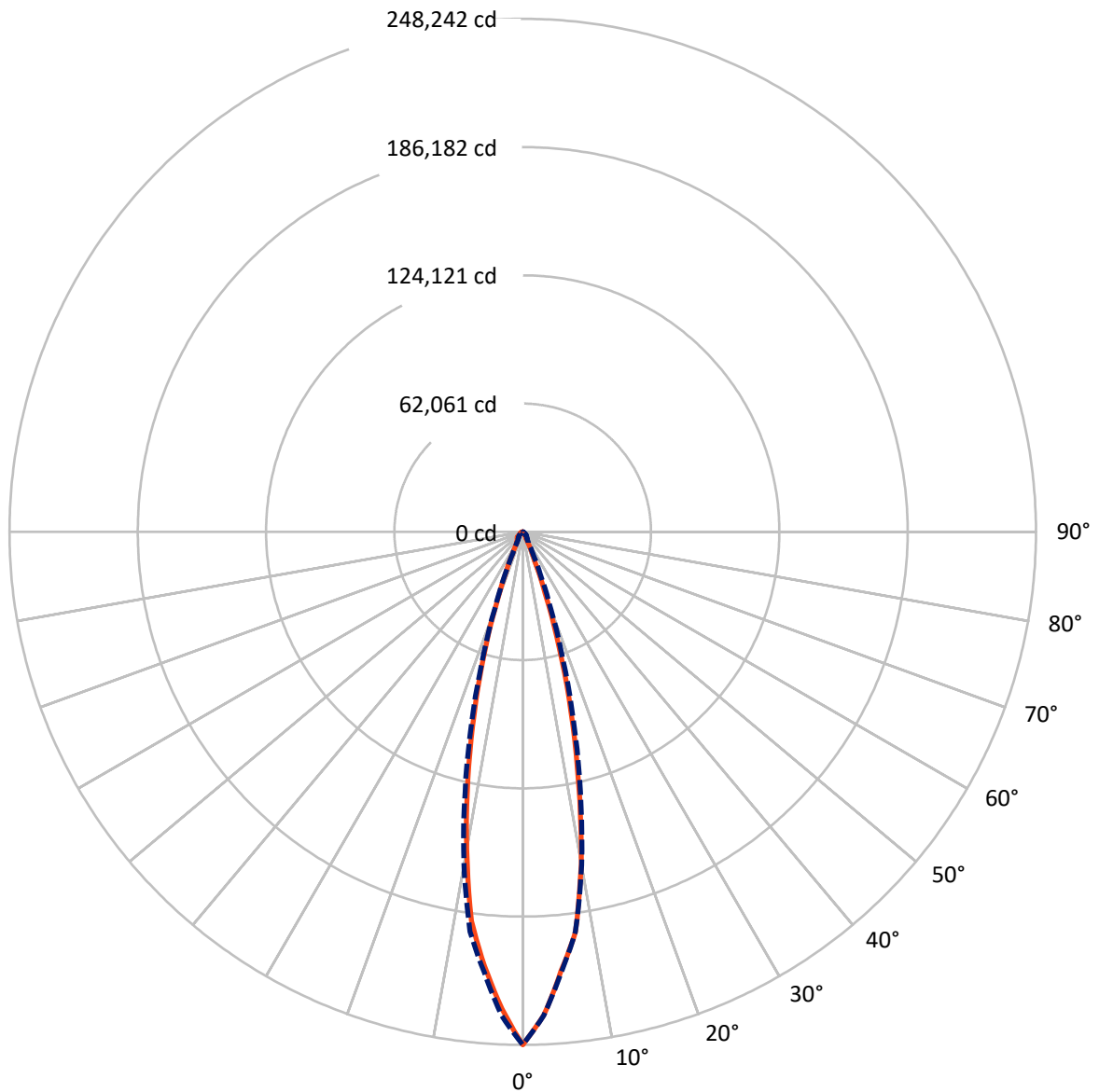
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Lumen Table

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	7.2	12.3	17.5	19.8	19.8	17.5	12.3	7.2	3.9	1.9	0.8	0.5	0.5	0.5
40		1.9	5.9	12.2	23.0	38.1	46.1	54.1	54.1	46.1	38.1	23.0	12.2	5.9	1.9			
30	1.3	3.2	9.9	21.8	48.9	62.9	135.9	297.2	297.2	135.9	62.9	48.9	21.8	9.9	3.2	1.3	1.3	1.3
20		4.3	13.1	35.5	70.2	169.7	1022.2	2471.3	2471.3	1022.2	169.7	70.2	35.5	13.1	4.3			
10	1.9	5.1	15.2	45.2	85.0	376.7	2482.8	5655.1	5655.1	2482.8	376.7	85.0	45.2	15.2	5.1	1.9	1.9	1.9
0		5.7	16.7	47.9	94.2	388.2	2497.9	5596.4	5596.4	2497.9	388.2	94.2	47.9	16.7	5.7			
-10	2.0	5.8	17.2	46.2	93.8	208.1	1065.9	2494.4	2494.4	1065.9	208.1	93.8	46.2	17.2	5.8	2.0	2.0	2.0
-20		5.3	16.4	36.6	84.5	127.5	220.9	420.2	420.2	220.9	127.5	84.5	36.6	16.4	5.3			
-30	1.7	4.5	14.1	29.2	58.3	102.0	125.9	139.7	139.7	125.9	102.0	58.3	29.2	14.1	4.5	1.7	1.7	1.7
-40		3.5	10.7	22.7	37.0	54.5	79.9	99.6	99.6	79.9	54.5	37.0	22.7	10.7	3.5			
-50	1.4	2.4	7.0	14.8	24.9	33.8	41.1	45.6	45.6	41.1	33.8	24.9	14.8	7.0	2.4	1.4	1.4	1.4
-60		1.7	3.7	7.6	12.9	17.8	22.5	25.4	25.4	22.5	17.8	12.9	7.6	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		6.1	12.2	18.3	24.4	30.5	36.6	42.7	42.7	36.6	30.5	24.4	18.3	12.2	6.1			
-90	1.0		6.1		14.1		23.0		28.3		23.0		14.1		6.1		1.0	

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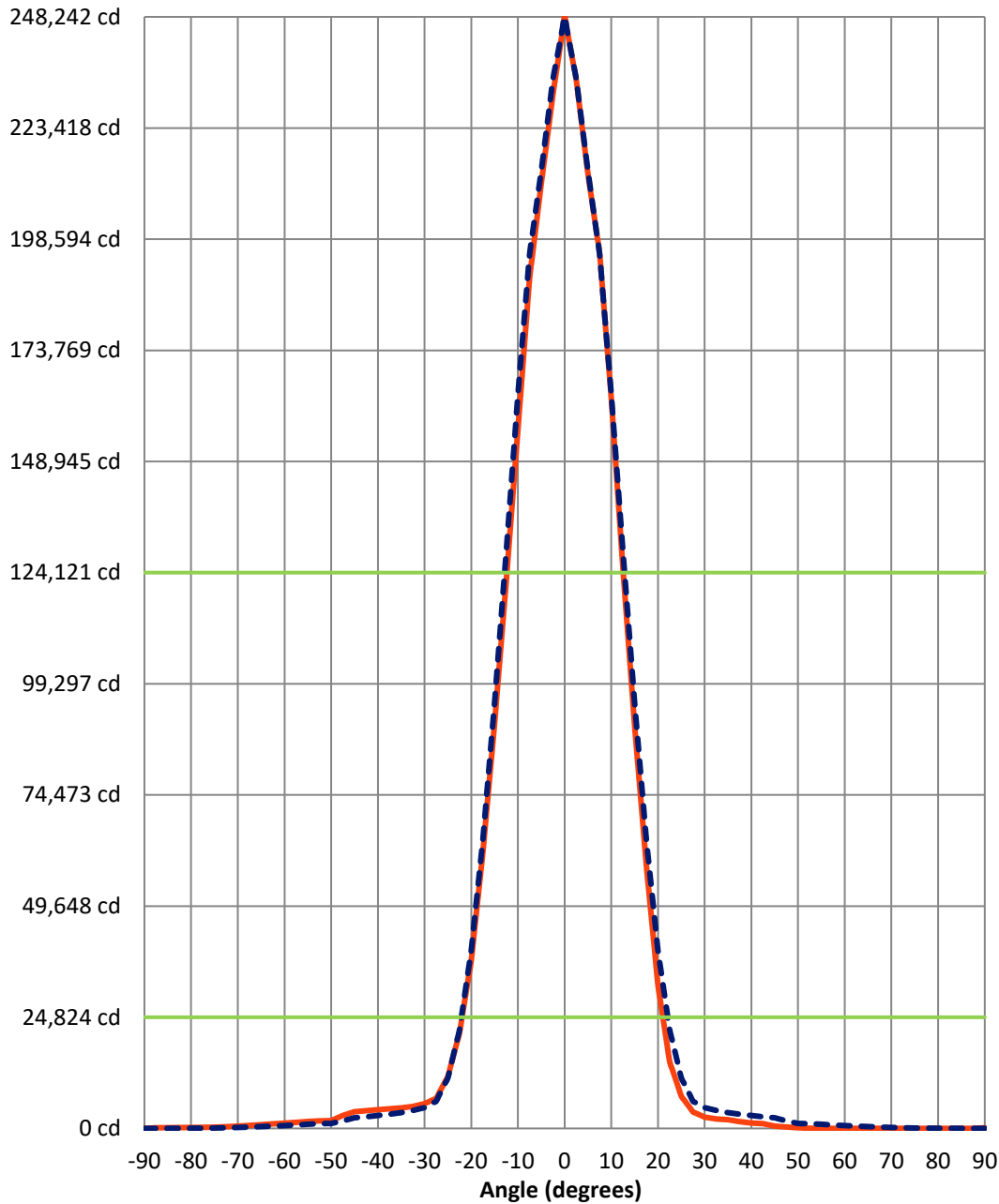
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 25.7°
 V Angle: 24.9°
 Lumens: 26684.8
 Efficiency: 47.8%

Field:
 H Angle: 44.2°
 V Angle: 43°
 Lumens: 46758.5
 Efficiency: 83.8%

Spill:
 Lumens: 9014.2
 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	8.3	14.6	23.6	32.6	40.2	47.8	53.5	59.1	63.8	68.4
87.5°	2.0	2.2	2.1	2.2	2.2	2.2	2.2	2.0	1.8	1.7	1.6
85°	2.0	2.3	2.2	2.3	2.5	2.4	2.4	2.3	2.3	2.1	1.9
82.5°	2.0	2.5	2.3	2.5	2.7	2.7	2.6	2.6	2.7	2.5	2.2
80°	2.0	2.6	2.5	2.7	2.9	2.9	2.8	2.9	2.9	2.7	2.5
77.5°	2.0	2.8	2.6	2.8	3.1	3.2	3.1	3.2	3.2	3.0	2.8
75°	2.0	3.0	2.8	3.0	3.4	3.5	3.5	3.5	3.4	3.4	3.2
72.5°	2.0	3.1	2.9	3.2	3.7	3.9	3.9	3.9	4.0	3.9	3.5
70°	2.0	3.3	3.1	3.4	4.1	4.3	4.3	4.6	4.6	4.4	4.4
67.5°	2.0	3.5	3.3	3.8	4.5	4.7	5.1	5.3	5.3	5.6	5.5
65°	2.0	3.6	3.5	4.2	4.9	5.4	6.0	6.1	6.7	6.8	6.8
62.5°	2.0	3.8	3.7	4.6	5.4	6.3	6.9	7.4	8.2	8.2	8.2
60°	2.0	4.0	3.9	5.0	5.8	7.2	7.8	8.9	9.7	9.9	9.7
57.5°	2.0	4.2	4.4	5.4	6.7	8.1	9.3	10.6	11.8	12.0	13.2
55°	2.0	4.3	4.8	5.8	7.6	9.1	10.9	12.3	14.2	15.0	17.8
52.5°	2.0	4.5	5.3	6.3	8.6	10.2	12.5	14.8	16.8	20.6	22.9
50°	2.0	4.7	5.8	6.7	9.5	11.7	14.1	17.4	20.5	26.8	32.2
47.5°	2.0	4.9	6.3	7.2	10.5	13.2	15.8	20.1	26.7	33.4	43.4
45°	2.0	5.1	6.8	8.0	11.6	14.8	18.3	22.9	33.3	44.8	55.7
42.5°	2.0	5.3	7.3	8.8	12.6	16.5	20.8	27.7	40.1	57.2	74.7
40°	2.0	5.4	7.8	9.8	13.8	18.2	23.6	33.8	48.7	70.3	96.1
37.5°	2.0	5.6	8.4	10.9	15.1	19.9	26.6	40.1	60.7	85.9	119.0
35°	2.0	5.8	8.9	12.0	16.5	22.2	29.7	46.5	73.2	106.1	144.6
32.5°	2.0	6.0	9.5	13.1	17.8	24.6	33.5	53.2	86.2	126.3	170.0
30°	2.0	6.2	10.0	14.2	19.1	27.1	39.0	60.9	99.6	146.7	193.8
27.5°	2.0	6.4	10.5	15.3	20.9	29.5	44.5	71.0	113.1	166.9	215.9
25°	2.0	6.5	11.1	16.4	22.6	31.9	49.8	80.6	126.9	185.9	236.5
22.5°	2.0	6.7	11.6	17.4	24.3	34.4	55.0	89.6	139.4	198.8	258.9
20°	2.0	6.9	12.2	18.5	26.0	36.9	60.1	98.0	150.8	210.7	277.0
17.5°	2.0	7.0	12.7	19.6	27.6	39.3	64.8	105.8	161.0	221.7	294.0
15°	2.0	7.2	13.2	20.6	29.2	41.6	69.1	112.8	169.9	231.7	310.1
12.5°	2.0	7.4	13.7	21.6	30.7	43.7	73.1	119.0	179.1	240.7	325.1
10°	2.0	7.5	14.2	22.5	32.1	45.8	76.7	124.6	188.5	254.0	341.5
7.5°	2.0	7.6	14.6	23.4	33.5	47.7	80.0	129.5	197.1	267.4	362.0
5°	2.0	7.8	15.1	24.3	34.8	49.4	83.0	133.8	204.9	280.0	381.0
2.5°	2.0	7.9	15.5	25.1	36.0	51.0	85.5	137.3	211.6	291.5	398.2
0°	2.0	8.0	15.9	25.9	37.2	52.5	87.7	140.2	217.3	301.7	413.4
-2.5°	2.0	8.3	16.6	27.1	38.9	54.7	90.5	145.0	223.7	308.6	420.5
-5°	2.0	8.6	17.3	28.1	40.4	56.8	92.9	148.9	228.8	314.1	425.3
-7.5°	2.0	8.9	17.9	29.2	41.9	58.6	94.9	152.0	232.6	317.9	427.8
-10°	2.0	9.2	18.6	30.1	43.2	60.4	96.4	154.2	234.9	320.3	428.2
-12.5°	2.0	9.5	19.1	31.0	44.5	61.9	97.4	155.3	235.8	321.0	427.2
-15°	2.0	9.8	19.7	31.8	45.6	63.2	97.9	155.4	234.4	319.0	423.9
-17.5°	2.0	10.0	20.2	32.6	46.7	64.4	98.0	154.0	230.6	315.3	417.7
-20°	2.0	10.2	20.6	33.2	47.6	65.3	97.6	151.4	225.4	309.7	408.3



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 CATALOG NUMBER: EPH-LS-08-0320L-57-70-3S-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	10.4	21.0	33.8	48.3	66.1	96.9	147.9	218.8	302.3	396.1
-25°	2.0	10.6	21.4	34.3	49.0	66.8	95.6	143.4	211.0	293.1	383.2
-27.5°	2.0	10.8	21.7	34.7	49.5	67.3	93.8	138.0	201.7	284.7	374.0
-30°	2.0	10.9	22.0	35.0	49.9	67.6	91.5	131.7	194.2	275.5	362.9
-32.5°	2.0	11.1	22.2	35.3	50.3	67.8	88.8	127.5	187.8	264.8	349.7
-35°	2.0	11.2	22.3	35.4	50.7	67.8	87.7	124.0	179.7	252.5	334.2
-37.5°	2.0	11.2	22.5	35.4	50.9	67.7	87.5	120.0	170.0	238.8	318.0
-40°	2.0	11.3	22.5	35.4	51.0	67.8	86.9	115.2	158.6	225.4	299.6
-42.5°	2.0	11.4	22.5	35.3	51.1	67.8	86.2	109.6	150.0	209.4	278.3
-45°	2.0	11.4	22.5	35.3	51.0	67.6	85.1	105.4	142.6	191.6	254.9
-47.5°	2.0	11.4	22.4	35.1	50.8	67.2	83.7	103.7	134.1	172.5	233.1
-50°	2.0	11.3	22.3	35.0	50.5	66.7	82.8	101.6	124.2	161.1	209.6
-52.5°	2.0	11.3	22.1	34.9	50.0	66.1	81.7	99.2	118.7	148.8	185.3
-55°	2.0	11.2	21.9	34.6	49.3	65.1	80.5	96.5	115.0	135.7	169.8
-57.5°	2.0	11.1	21.6	34.3	48.6	63.9	79.0	94.7	111.0	129.1	153.6
-60°	2.0	11.0	21.3	33.9	47.7	62.6	77.3	92.4	107.1	124.2	140.2
-62.5°	2.0	10.9	20.9	33.4	47.0	61.1	75.5	89.8	103.9	118.8	133.5
-65°	2.0	10.8	20.6	32.8	46.1	59.5	73.5	87.0	100.4	113.9	126.4
-67.5°	2.0	10.6	20.1	32.2	45.1	57.9	71.3	84.2	96.6	109.1	120.5
-70°	2.0	10.4	19.7	31.4	44.0	56.3	69.0	81.1	93.0	104.2	115.0
-72.5°	2.0	10.2	19.2	30.7	42.8	54.5	66.5	77.9	89.1	99.3	109.3
-75°	2.0	10.0	18.6	29.8	41.5	52.5	63.9	74.4	85.0	94.2	103.2
-77.5°	2.0	9.7	18.0	29.0	40.2	50.5	61.1	70.8	80.6	88.9	97.0
-80°	2.0	9.5	17.4	28.0	38.9	48.5	58.2	67.0	75.9	83.4	90.7
-82.5°	2.0	9.2	16.8	27.0	37.4	46.5	55.7	63.3	71.1	77.7	84.3
-85°	2.0	8.9	16.1	25.9	35.9	44.5	53.2	60.1	67.1	72.8	78.4
-87.5°	2.0	8.6	15.3	24.8	34.3	42.4	50.5	56.8	63.2	68.3	73.4
-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°	72.1	75.8	79.1	82.4	85.4	88.4	92.4	96.4	99.4	102.3	105.3
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	2.7	2.7	2.6	2.7
75°	3.0	2.8	2.9	2.8	2.8	3.1	3.3	3.3	3.2	3.1	3.1
72.5°	3.5	3.5	3.4	3.0	3.1	3.3	3.3	3.3	4.1	5.5	6.6
70°	4.3	4.3	4.1	3.8	3.7	3.9	5.0	6.9	8.9	10.8	12.6
67.5°	5.3	5.1	4.8	4.8	5.5	6.7	8.1	12.7	17.6	19.3	19.6
65°	6.2	6.1	6.1	6.9	7.9	11.2	15.5	21.1	25.8	25.5	23.5
62.5°	7.3	8.2	8.2	9.9	13.2	17.2	22.2	27.0	31.2	29.2	24.3
60°	10.5	11.1	12.6	15.7	19.1	23.1	28.2	29.8	30.8	30.1	23.6
57.5°	14.5	16.2	19.4	22.2	26.2	28.0	28.4	28.1	29.9	28.7	22.2
55°	20.3	23.3	27.5	30.4	32.8	29.3	28.9	30.7	30.5	27.9	21.6
52.5°	29.0	32.1	38.0	40.2	38.3	35.5	34.5	36.2	34.9	31.4	27.2
50°	38.4	45.9	49.8	51.5	48.1	47.7	44.3	46.5	48.4	46.7	52.5
47.5°	52.8	61.9	64.7	67.8	66.1	72.2	69.1	80.6	81.4	114.8	124.7
45°	70.2	82.3	85.6	93.6	102.4	113.1	131.4	136.3	191.3	224.7	264.3
42.5°	91.1	106.3	120.0	124.6	164.1	185.5	213.0	264.2	315.4	357.4	386.8
40°	118.0	133.5	162.4	197.1	239.1	275.5	328.1	387.3	436.1	468.3	483.5
37.5°	147.6	177.9	215.9	272.0	323.0	369.3	436.5	495.7	539.0	568.8	572.7
35°	179.4	222.5	284.7	341.5	394.2	456.9	523.6	591.7	627.1	640.0	695.0
32.5°	216.5	265.9	339.6	401.2	460.6	531.7	602.6	661.4	692.8	729.1	915.0
30°	251.6	311.4	384.8	450.3	523.8	604.8	672.6	728.1	749.8	940.7	1241.4
27.5°	279.6	350.9	424.6	503.6	588.1	680.6	749.0	785.1	908.9	1191.5	1626.2
25°	305.8	382.5	464.8	563.5	659.5	751.3	820.8	843.9	1101.5	1580.7	1904.7
22.5°	331.3	413.3	509.1	626.8	725.2	810.8	869.0	1008.5	1377.6	1984.5	2152.7
20°	356.8	449.7	557.3	674.7	783.2	863.2	907.8	1182.1	1712.9	2139.6	2328.9
17.5°	381.5	486.3	601.6	714.9	824.3	905.4	963.2	1328.5	1978.4	2278.9	2465.2
15°	405.4	517.6	635.7	752.8	864.3	942.4	1099.3	1543.2	2143.4	2447.3	2644.1
12.5°	428.4	544.3	660.8	785.6	903.1	978.4	1240.4	1803.5	2315.6	2613.2	2825.9
10°	450.1	566.8	682.7	815.5	939.1	1009.7	1372.9	2046.7	2473.1	2731.3	2924.1
7.5°	472.0	587.1	702.5	842.6	973.0	1038.2	1484.9	2179.8	2534.9	2809.3	2993.4
5°	491.3	605.8	725.9	875.9	1005.9	1064.4	1579.5	2269.4	2554.5	2848.3	3043.2
2.5°	507.8	621.4	746.4	907.0	1035.5	1088.2	1644.0	2337.6	2578.1	2876.0	3105.1
0°	521.7	634.0	763.6	933.7	1060.6	1109.8	1686.7	2374.5	2593.1	2888.2	3173.9
-2.5°	531.8	650.7	791.1	956.3	1081.3	1132.3	1700.1	2390.3	2614.9	2955.3	3328.2
-5°	539.3	664.1	814.1	974.3	1098.1	1153.1	1690.5	2375.6	2640.9	3017.2	3426.3
-7.5°	544.0	673.8	831.8	987.8	1112.1	1176.5	1661.6	2358.6	2722.3	3094.8	3475.6
-10°	546.2	678.8	834.5	992.8	1123.3	1199.9	1612.4	2301.4	2781.1	3124.5	3479.7
-12.5°	548.1	679.9	831.2	991.9	1130.3	1221.4	1550.4	2232.6	2835.4	3135.6	3454.5
-15°	546.4	677.8	823.8	985.7	1139.1	1248.5	1471.2	2105.1	2859.6	3123.9	3407.2
-17.5°	540.9	672.6	813.7	977.8	1144.8	1273.7	1367.3	1908.5	2729.6	3087.9	3371.2
-20°	531.5	663.2	799.2	962.6	1141.7	1284.6	1364.7	1764.7	2457.2	3017.0	3317.6



REPORT NUMBER: P701422 (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°	519.1	649.8	781.9	942.4	1123.8	1280.1	1383.7	1606.2	2148.5	2913.2	3236.9
-25°	504.5	632.9	764.2	920.5	1098.7	1271.5	1394.1	1460.2	1893.4	2561.4	3108.7
-27.5°	487.7	612.8	744.0	891.4	1065.9	1246.0	1377.1	1464.2	1686.0	2159.2	2913.9
-30°	467.9	589.5	717.8	857.7	1025.8	1197.7	1348.0	1458.9	1523.7	1884.7	2491.4
-32.5°	445.4	562.7	688.0	825.4	980.6	1145.7	1304.7	1424.6	1513.5	1631.6	2093.8
-35°	423.9	535.3	655.0	789.0	932.0	1087.1	1236.3	1377.8	1489.2	1565.3	1753.2
-37.5°	405.0	505.4	620.4	749.5	887.2	1019.9	1162.5	1308.3	1436.0	1541.2	1607.7
-40°	383.3	473.2	584.7	706.7	829.4	952.0	1085.1	1224.4	1365.1	1480.7	1582.0
-42.5°	359.0	446.2	546.0	657.0	769.7	885.5	1004.0	1135.9	1268.5	1400.3	1507.3
-45°	332.1	415.9	504.6	604.4	706.7	815.9	928.2	1042.2	1167.6	1292.0	1409.0
-47.5°	301.8	382.3	466.8	548.4	643.3	743.5	848.4	955.9	1063.2	1177.5	1290.5
-50°	270.1	344.9	422.9	497.5	578.7	670.0	766.2	866.3	967.5	1063.4	1162.8
-52.5°	240.8	304.1	375.5	447.1	518.3	595.9	682.9	773.4	867.0	960.3	1044.4
-55°	209.2	266.1	325.4	392.9	461.1	528.2	598.8	680.6	760.2	846.0	928.6
-57.5°	185.5	227.4	279.4	335.5	399.3	464.2	526.7	588.4	657.7	729.5	802.3
-60°	166.6	196.0	235.8	283.6	333.9	393.8	455.2	512.1	564.5	617.9	683.9
-62.5°	149.2	173.3	200.9	234.2	277.9	322.4	375.3	429.6	480.5	529.4	578.5
-65°	140.7	153.4	174.3	199.1	224.1	262.0	302.5	344.0	390.7	435.6	481.3
-67.5°	131.8	143.8	155.4	168.9	191.4	213.5	235.5	272.0	308.5	341.5	374.7
-70°	124.9	134.3	144.7	154.9	165.0	178.0	198.0	218.5	238.2	260.1	287.9
-72.5°	118.2	126.6	135.0	143.2	152.4	161.7	171.3	181.3	195.8	212.7	227.9
-75°	111.3	118.6	126.0	133.3	140.9	148.7	156.8	165.6	174.6	183.7	191.8
-77.5°	104.3	111.2	117.4	123.6	130.1	137.0	144.2	151.5	158.9	166.4	172.7
-80°	97.1	103.6	109.1	114.5	120.1	125.8	132.0	138.2	144.4	150.7	156.2
-82.5°	89.8	95.3	100.3	105.1	110.0	114.7	120.0	125.4	130.8	136.2	140.9
-85°	82.7	87.0	91.2	95.4	99.6	103.8	108.6	113.3	117.8	122.4	126.4
-87.5°	77.4	81.4	85.0	88.4	91.8	95.2	99.3	103.4	106.9	110.5	113.8
-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°	108.3	110.3	112.3	114.0	115.6	118.0	120.3	123.6	126.9	130.9	134.9
87.5°	1.2	1.2	1.2	1.0	0.7	0.7	0.7	0.7	0.7	1.0	1.3
85°	1.3	1.3	1.3	1.5	1.7	1.8	1.8	1.9	1.9	2.0	2.0
82.5°	1.6	1.7	1.7	1.9	2.0	2.0	2.0	2.0	2.0	2.3	2.7
80°	2.2	2.3	2.3	2.4	2.4	2.3	2.0	2.0	2.0	2.3	2.7
77.5°	2.8	2.8	2.7	2.6	2.4	2.2	2.0	2.0	2.0	2.0	2.1
75°	3.2	3.3	3.6	3.7	4.0	4.1	3.9	3.9	4.1	4.1	3.9
72.5°	7.3	7.5	7.5	8.3	9.2	9.5	9.8	10.4	11.2	12.2	13.3
70°	14.3	15.7	16.3	16.4	15.8	15.3	15.0	14.9	15.2	15.9	16.8
67.5°	20.6	21.2	21.0	20.7	19.4	17.9	16.2	15.3	15.7	16.5	17.5
65°	23.3	21.4	20.1	19.6	18.5	16.6	14.1	12.4	12.0	11.7	11.6
62.5°	20.9	17.6	16.1	15.2	13.6	12.0	9.7	7.9	7.2	6.8	6.7
60°	18.2	14.1	11.6	10.5	8.8	6.7	5.6	4.3	3.9	3.6	3.7
57.5°	15.8	11.7	8.8	8.3	6.7	5.3	4.3	3.2	2.9	2.7	2.8
55°	16.4	14.3	12.0	10.7	8.9	8.1	7.1	6.4	5.9	6.0	6.4
52.5°	23.1	24.8	21.8	21.0	26.2	26.3	21.7	28.7	33.0	36.3	37.2
50°	59.5	59.1	78.5	75.3	93.2	107.9	108.5	117.4	134.4	146.0	152.3
47.5°	158.0	175.8	198.4	222.2	240.8	264.0	287.5	305.1	309.4	309.8	312.9
45°	297.5	322.8	356.9	381.9	417.1	438.7	456.8	473.1	510.8	545.4	585.8
42.5°	415.5	443.1	478.5	529.2	566.3	665.2	816.6	853.8	859.1	889.9	934.8
40°	508.6	544.9	623.3	734.6	971.7	1184.3	1222.6	1254.6	1268.6	1251.6	1282.0
37.5°	621.3	706.3	882.9	1187.2	1299.6	1357.6	1398.3	1422.8	1452.4	1479.9	1494.8
35°	808.4	1045.4	1200.2	1362.7	1436.3	1465.6	1495.5	1525.6	1549.0	1579.4	1603.7
32.5°	1192.5	1456.4	1471.9	1512.1	1550.4	1588.6	1616.4	1645.1	1670.1	1709.5	1792.1
30°	1579.4	1637.0	1651.1	1654.7	1689.7	1735.4	1759.6	1817.6	1895.8	1985.5	2176.5
27.5°	1785.5	1825.0	1833.3	1837.3	1853.5	1907.6	2007.9	2087.0	2274.8	2502.7	2993.3
25°	2036.3	2064.5	2094.3	2093.1	2117.8	2213.6	2409.7	2576.7	3211.0	3804.6	5083.5
22.5°	2275.6	2360.7	2403.2	2460.0	2544.0	2718.3	3062.3	4028.6	5644.1	7705.9	10272.6
20°	2441.9	2556.4	2670.6	2829.2	3032.2	3394.0	4468.6	7360.1	10813.1	15823.7	20026.1
17.5°	2609.7	2739.1	2940.9	3185.6	3526.5	4741.5	7892.1	12801.7	19892.7	28788.0	36592.7
15°	2828.5	2982.0	3252.3	3601.6	4554.2	7147.8	12403.4	21336.8	32116.7	44620.9	57737.7
12.5°	2977.4	3189.0	3510.3	3961.5	5525.0	10382.5	18844.6	31091.2	45928.1	61683.7	82592.1
10°	3087.5	3340.5	3777.0	4712.3	7547.4	13953.0	24121.7	39405.5	59746.2	83759.0	107663.6
7.5°	3180.0	3520.7	4068.7	5247.3	9292.3	17368.1	30330.2	48906.9	72973.4	101907.6	129706.6
5°	3263.1	3714.8	4349.3	5823.9	10855.7	19840.8	34458.9	56002.6	83871.9	115472.9	146164.9
2.5°	3372.9	3896.5	4531.4	5982.5	11481.5	21210.9	37730.4	61732.4	91653.4	124895.4	158288.5
0°	3525.5	4014.6	4642.6	6084.1	11286.9	22069.4	39735.4	64608.0	95063.5	128853.0	163876.8
-2.5°	3645.5	4082.7	4707.5	6002.2	11191.7	21665.7	38830.5	62931.8	91724.8	124375.5	159312.1
-5°	3723.0	4131.5	4735.9	6032.8	10951.6	20122.6	36157.9	58539.9	84926.3	114399.7	146705.5
-7.5°	3768.4	4149.4	4706.4	5840.5	9860.8	18020.4	31400.7	50444.8	74115.5	101388.5	128087.1
-10°	3795.5	4137.8	4644.7	5568.3	8294.3	14644.8	24790.2	40930.4	61439.8	83416.1	105254.5
-12.5°	3805.8	4113.4	4557.8	5178.6	6650.1	11465.1	19733.9	31188.7	46413.0	64440.2	83683.5
-15°	3785.8	4077.9	4473.9	5011.3	5990.3	8594.8	13770.0	21560.6	32908.2	46672.0	60616.7
-17.5°	3711.5	4041.2	4349.5	4762.2	5338.4	6566.6	9716.4	14716.9	21637.0	30734.6	38779.9
-20°	3612.9	3972.0	4236.0	4600.6	5053.1	5615.3	6625.4	9677.2	13557.5	18824.5	24075.4



REPORT NUMBER: P701422 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-57-70-3S-VHE-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3525.2	3853.7	4185.6	4435.9	4790.3	5159.8	5616.0	6489.0	8438.8	11068.3	14397.1
-25°	3444.3	3745.0	4085.6	4356.3	4556.2	4817.4	5103.2	5409.1	6071.3	6692.3	8298.2
-27.5°	3330.4	3641.9	3937.3	4226.2	4418.8	4537.4	4732.1	4922.2	5199.6	5446.2	5917.8
-30°	3197.8	3502.6	3783.7	4046.2	4243.5	4368.2	4464.8	4595.5	4742.3	4891.6	5094.2
-32.5°	2725.5	3339.0	3600.6	3837.7	4041.2	4187.8	4290.0	4375.9	4460.6	4556.2	4663.0
-35°	2208.0	2814.0	3404.4	3589.2	3781.6	3975.7	4127.3	4208.3	4282.1	4349.0	4414.3
-37.5°	1795.2	2222.8	2752.7	3256.2	3490.0	3686.0	3868.2	4009.8	4113.1	4175.9	4234.7
-40°	1633.7	1742.0	2149.5	2564.3	2963.1	3325.2	3510.5	3719.7	3889.7	3981.8	4045.8
-42.5°	1595.0	1644.8	1682.8	1945.6	2262.8	2568.2	2906.1	3241.4	3504.6	3680.0	3810.5
-45°	1510.4	1582.0	1638.8	1662.2	1676.6	1899.2	2160.8	2417.0	2712.5	3017.8	3294.9
-47.5°	1390.6	1483.7	1547.8	1597.9	1627.9	1637.3	1655.8	1713.2	1927.7	2153.4	2368.2
-50°	1256.9	1342.2	1419.0	1488.8	1530.3	1564.0	1596.2	1627.1	1653.2	1686.3	1716.0
-52.5°	1122.2	1200.4	1269.4	1330.7	1385.7	1438.9	1490.0	1528.1	1565.4	1605.4	1638.0
-55°	1002.3	1065.7	1123.5	1177.3	1227.0	1271.8	1318.0	1367.3	1418.4	1468.3	1507.1
-57.5°	874.1	934.7	989.5	1035.1	1075.1	1108.5	1150.9	1197.2	1245.2	1289.7	1323.4
-60°	744.8	798.3	848.5	892.7	930.6	961.7	1000.9	1040.1	1082.9	1120.9	1151.0
-62.5°	621.9	667.1	709.7	748.3	782.8	814.4	849.2	884.1	924.4	959.8	988.5
-65°	519.9	554.9	584.1	611.4	632.8	660.1	693.7	726.0	761.0	791.7	817.3
-67.5°	409.3	441.6	468.4	492.3	511.0	530.6	555.5	581.1	608.3	632.7	654.2
-70°	312.7	334.5	351.8	369.6	388.9	407.5	427.5	449.4	472.2	492.4	510.1
-72.5°	241.3	252.0	262.1	276.7	289.6	302.6	315.2	330.9	347.8	363.1	376.9
-75°	199.3	206.0	213.7	220.6	226.6	233.5	240.5	250.7	261.8	272.3	282.2
-77.5°	178.8	183.6	187.5	190.7	193.5	197.7	202.2	209.8	218.0	226.9	235.8
-80°	161.5	165.1	168.4	171.2	173.8	177.2	180.8	187.5	194.5	202.0	209.4
-82.5°	145.4	148.3	150.9	153.5	155.9	158.9	161.9	167.7	173.7	180.0	186.2
-85°	130.3	132.8	135.1	137.2	139.2	141.7	144.2	149.2	154.3	159.6	164.9
-87.5°	117.0	119.3	121.5	123.4	125.3	127.5	129.7	134.1	138.5	142.9	147.3
-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: P701422 (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°
90°	135.3	135.6	135.9	136.2	135.9	135.6	135.3	134.9	130.9	126.9	123.6
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.0	0.7	0.7
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9
82.5°	2.3	2.0	2.3	2.7	2.3	2.0	2.3	2.7	2.3	2.0	2.0
80°	2.4	2.0	2.3	2.7	2.3	2.0	2.4	2.7	2.3	2.0	2.0
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0
75°	3.3	2.7	2.4	2.0	2.4	2.7	3.3	3.9	4.1	4.1	3.9
72.5°	13.7	13.7	13.9	14.0	13.9	13.7	13.7	13.3	12.2	11.2	10.4
70°	17.3	17.7	17.9	17.9	17.9	17.7	17.3	16.8	15.9	15.2	14.9
67.5°	17.7	17.4	17.0	16.6	17.0	17.4	17.7	17.5	16.5	15.7	15.3
65°	11.1	10.4	9.2	8.0	9.2	10.4	11.1	11.6	11.7	12.0	12.4
62.5°	6.4	6.2	6.0	6.0	6.0	6.2	6.4	6.7	6.8	7.2	7.9
60°	3.8	4.0	4.0	4.0	4.0	4.0	3.8	3.7	3.6	3.9	4.3
57.5°	2.9	3.2	3.6	4.0	3.6	3.2	2.9	2.8	2.7	2.9	3.2
55°	6.8	7.6	7.9	8.0	7.9	7.6	6.8	6.4	6.0	5.9	6.4
52.5°	35.9	34.1	32.5	31.2	32.5	34.1	35.9	37.2	36.3	33.0	28.7
50°	155.1	159.1	161.0	160.8	161.0	159.1	155.1	152.3	146.0	134.4	117.4
47.5°	319.5	321.8	319.9	315.0	319.9	321.8	319.5	312.9	309.8	309.4	305.1
45°	635.2	607.6	558.8	515.7	558.8	607.6	635.2	585.8	545.4	510.8	473.1
42.5°	994.3	1027.3	1052.0	1063.3	1052.0	1027.3	994.3	934.8	889.9	859.1	853.8
40°	1247.8	1212.6	1205.5	1210.8	1205.5	1212.6	1247.8	1282.0	1251.6	1268.6	1254.6
37.5°	1498.6	1530.6	1554.3	1515.9	1554.3	1530.6	1498.6	1494.8	1479.9	1452.4	1422.8
35°	1660.2	1773.9	1907.4	1947.8	1907.4	1773.9	1660.2	1603.7	1579.4	1549.0	1525.6
32.5°	1930.4	2050.5	2102.6	2115.3	2102.6	2050.5	1930.4	1792.1	1709.5	1670.1	1645.1
30°	2360.4	2480.4	2502.0	2519.4	2502.0	2480.4	2360.4	2176.5	1985.5	1895.8	1817.6
27.5°	3318.9	3587.2	3650.8	3695.6	3650.8	3587.2	3318.9	2993.3	2502.7	2274.8	2087.0
25°	6093.1	6790.9	7246.7	7202.5	7246.7	6790.9	6093.1	5083.5	3804.6	3211.0	2576.7
22.5°	12844.3	14214.0	14944.9	14932.0	14944.9	14214.0	12844.3	10272.6	7705.9	5644.1	4028.6
20°	26013.4	30066.6	32260.5	32010.6	32260.5	30066.6	26013.4	20026.1	15823.7	10813.1	7360.1
17.5°	45359.1	53187.5	58656.7	58880.8	58656.7	53187.5	45359.1	36592.7	28788.0	19892.7	12801.7
15°	70138.6	81754.2	89954.0	89953.0	89954.0	81754.2	70138.6	57737.7	44620.9	32116.7	21336.8
12.5°	100296.7	114181.1	123563.1	124970.1	123563.1	114181.1	100296.7	82592.1	61683.7	45928.1	31091.2
10°	129240.6	144967.4	159150.9	163056.0	159150.9	144967.4	129240.6	107663.6	83759.0	59746.2	39405.5
7.5°	153739.2	178478.7	191398.5	195467.7	191398.5	178478.7	153739.2	129706.6	101907.6	72973.4	48906.9
5°	177786.2	199200.3	210047.5	213187.8	210047.5	199200.3	177786.2	146164.9	115472.9	83871.9	56002.6
2.5°	190435.6	210091.7	225337.6	234179.3	225337.6	210091.7	190435.6	158288.5	124895.4	91653.4	61732.4
0°	195194.9	213869.7	234315.9	248242.1	234315.9	213869.7	195194.9	163876.8	128853.0	95063.5	64608.0
-2.5°	190434.6	208504.7	223572.3	230908.0	223572.3	208504.7	190434.6	159312.1	124375.5	91724.8	62931.8
-5°	176004.5	197259.0	208229.4	211006.8	208229.4	197259.0	176004.5	146705.5	114399.7	84926.3	58539.9
-7.5°	152957.6	173399.2	186849.5	189879.1	186849.5	173399.2	152957.6	128087.1	101388.5	74115.5	50444.8
-10°	127299.8	144760.3	153834.3	156078.1	153834.3	144760.3	127299.8	105254.5	83416.1	61439.8	40930.4
-12.5°	98914.7	111719.5	120982.2	122239.4	120982.2	111719.5	98914.7	83683.5	64440.2	46413.0	31188.7
-15°	73626.7	82095.2	89562.7	90420.8	89562.7	82095.2	73626.7	60616.7	46672.0	32908.2	21560.6
-17.5°	49326.1	56337.2	60515.5	61721.1	60515.5	56337.2	49326.1	38779.9	30734.6	21637.0	14716.9
-20°	29554.5	34571.4	37356.0	37460.6	37356.0	34571.4	29554.5	24075.4	18824.5	13557.5	9677.2



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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°	17146.1	19937.5	21410.8	21382.2	21410.8	19937.5	17146.1	14397.1	11068.3	8438.8	6489.0
-25°	9888.5	11110.7	11598.5	11615.9	11598.5	11110.7	9888.5	8298.2	6692.3	6071.3	5409.1
-27.5°	6296.4	6577.0	6689.4	6707.4	6689.4	6577.0	6296.4	5917.8	5446.2	5199.6	4922.2
-30°	5279.0	5443.2	5518.7	5539.8	5518.7	5443.2	5279.0	5094.2	4891.6	4742.3	4595.5
-32.5°	4763.3	4853.7	4914.7	4905.8	4914.7	4853.7	4763.3	4663.0	4556.2	4460.6	4375.9
-35°	4478.2	4534.1	4568.3	4584.8	4568.3	4534.1	4478.2	4414.3	4349.0	4282.1	4208.3
-37.5°	4293.3	4343.3	4375.7	4385.4	4375.7	4343.3	4293.3	4234.7	4175.9	4113.1	4009.8
-40°	4100.9	4142.5	4169.1	4178.8	4169.1	4142.5	4100.9	4045.8	3981.8	3889.7	3719.7
-42.5°	3893.2	3938.0	3959.3	3959.5	3959.3	3938.0	3893.2	3810.5	3680.0	3504.6	3241.4
-45°	3522.3	3660.0	3729.0	3732.2	3729.0	3660.0	3522.3	3294.9	3017.8	2712.5	2417.0
-47.5°	2563.6	2699.8	2809.2	2890.2	2809.2	2699.8	2563.6	2368.2	2153.4	1927.7	1713.2
-50°	1742.1	1751.1	1751.6	1743.8	1751.6	1751.1	1742.1	1716.0	1686.3	1653.2	1627.1
-52.5°	1663.4	1672.7	1679.5	1683.3	1679.5	1672.7	1663.4	1638.0	1605.4	1565.4	1528.1
-55°	1535.7	1547.5	1552.3	1550.4	1552.3	1547.5	1535.7	1507.1	1468.3	1418.4	1367.3
-57.5°	1346.1	1353.9	1357.5	1356.4	1357.5	1353.9	1346.1	1323.4	1289.7	1245.2	1197.2
-60°	1169.4	1175.2	1178.5	1178.3	1178.5	1175.2	1169.4	1151.0	1120.9	1082.9	1040.1
-62.5°	1004.7	1009.9	1013.6	1014.1	1013.6	1009.9	1004.7	988.5	959.8	924.4	884.1
-65°	830.1	834.0	836.5	836.0	836.5	834.0	830.1	817.3	791.7	761.0	726.0
-67.5°	663.6	666.3	668.6	668.5	668.6	666.3	663.6	654.2	632.7	608.3	581.1
-70°	515.7	516.0	517.1	516.4	517.1	516.0	515.7	510.1	492.4	472.2	449.4
-72.5°	380.1	379.7	379.5	378.1	379.5	379.7	380.1	376.9	363.1	347.8	330.9
-75°	283.2	282.2	281.2	279.8	281.2	282.2	283.2	282.2	272.3	261.8	250.7
-77.5°	236.8	236.7	235.2	233.3	235.2	236.7	236.8	235.8	226.9	218.0	209.8
-80°	209.9	209.7	208.9	208.0	208.9	209.7	209.9	209.4	202.0	194.5	187.5
-82.5°	186.8	187.2	187.0	186.7	187.0	187.2	186.8	186.2	180.0	173.7	167.7
-85°	165.5	166.0	165.8	165.5	165.8	166.0	165.5	164.9	159.6	154.3	149.2
-87.5°	147.7	148.2	148.2	148.2	148.2	148.2	147.7	147.3	142.9	138.5	134.1
-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°	120.3	118.0	115.6	114.0	112.3	110.3	108.3	105.3	102.3	99.4	96.4
87.5°	0.7	0.7	0.7	1.0	1.2	1.2	1.2	1.2	1.2	1.2	1.3
85°	1.8	1.8	1.7	1.5	1.3	1.3	1.3	1.5	1.7	1.6	1.6
82.5°	2.0	2.0	2.0	1.9	1.7	1.7	1.6	1.8	2.0	2.0	2.0
80°	2.0	2.3	2.4	2.4	2.3	2.3	2.2	2.1	2.0	2.0	2.1
77.5°	2.0	2.2	2.4	2.6	2.7	2.8	2.8	2.7	2.6	2.7	2.7
75°	3.9	4.1	4.0	3.7	3.6	3.3	3.2	3.1	3.1	3.2	3.3
72.5°	9.8	9.5	9.2	8.3	7.5	7.5	7.3	6.6	5.5	4.1	3.3
70°	15.0	15.3	15.8	16.4	16.3	15.7	14.3	12.6	10.8	8.9	6.9
67.5°	16.2	17.9	19.4	20.7	21.0	21.2	20.6	19.6	19.3	17.6	12.7
65°	14.1	16.6	18.5	19.6	20.1	21.4	23.3	23.5	25.5	25.8	21.1
62.5°	9.7	12.0	13.6	15.2	16.1	17.6	20.9	24.3	29.2	31.2	27.0
60°	5.6	6.7	8.8	10.5	11.6	14.1	18.2	23.6	30.1	30.8	29.8
57.5°	4.3	5.3	6.7	8.3	8.8	11.7	15.8	22.2	28.7	29.9	28.1
55°	7.1	8.1	8.9	10.7	12.0	14.3	16.4	21.6	27.9	30.5	30.7
52.5°	21.7	26.3	26.2	21.0	21.8	24.8	23.1	27.2	31.4	34.9	36.2
50°	108.5	107.9	93.2	75.3	78.5	59.1	59.5	52.5	46.7	48.4	46.5
47.5°	287.5	264.0	240.8	222.2	198.4	175.8	158.0	124.7	114.8	81.4	80.6
45°	456.8	438.7	417.1	381.9	356.9	322.8	297.5	264.3	224.7	191.3	136.3
42.5°	816.6	665.2	566.3	529.2	478.5	443.1	415.5	386.8	357.4	315.4	264.2
40°	1222.6	1184.3	971.7	734.6	623.3	544.9	508.6	483.5	468.3	436.1	387.3
37.5°	1398.3	1357.6	1299.6	1187.2	882.9	706.3	621.3	572.7	568.8	539.0	495.7
35°	1495.5	1465.6	1436.3	1362.7	1200.2	1045.4	808.4	695.0	640.0	627.1	591.7
32.5°	1616.4	1588.6	1550.4	1512.1	1471.9	1456.4	1192.5	915.0	729.1	692.8	661.4
30°	1759.6	1735.4	1689.7	1654.7	1651.1	1637.0	1579.4	1241.4	940.7	749.8	728.1
27.5°	2007.9	1907.6	1853.5	1837.3	1833.3	1825.0	1785.5	1626.2	1191.5	908.9	785.1
25°	2409.7	2213.6	2117.8	2093.1	2094.3	2064.5	2036.3	1904.7	1580.7	1101.5	843.9
22.5°	3062.3	2718.3	2544.0	2460.0	2403.2	2360.7	2275.6	2152.7	1984.5	1377.6	1008.5
20°	4468.6	3394.0	3032.2	2829.2	2670.6	2556.4	2441.9	2328.9	2139.6	1712.9	1182.1
17.5°	7892.1	4741.5	3526.5	3185.6	2940.9	2739.1	2609.7	2465.2	2278.9	1978.4	1328.5
15°	12403.4	7147.8	4554.2	3601.6	3252.3	2982.0	2828.5	2644.1	2447.3	2143.4	1543.2
12.5°	18844.6	10382.5	5525.0	3961.5	3510.3	3189.0	2977.4	2825.9	2613.2	2315.6	1803.5
10°	24121.7	13953.0	7547.4	4712.3	3777.0	3340.5	3087.5	2924.1	2731.3	2473.1	2046.7
7.5°	30330.2	17368.1	9292.3	5247.3	4068.7	3520.7	3180.0	2993.4	2809.3	2534.9	2179.8
5°	34458.9	19840.8	10855.7	5823.9	4349.3	3714.8	3263.1	3043.2	2848.3	2554.5	2269.4
2.5°	37730.4	21210.9	11481.5	5982.5	4531.4	3896.5	3372.9	3105.1	2876.0	2578.1	2337.6
0°	39735.4	22069.4	11286.9	6084.1	4642.6	4014.6	3525.5	3173.9	2888.2	2593.1	2374.5
-2.5°	38830.5	21665.7	11191.7	6002.2	4707.5	4082.7	3645.5	3328.2	2955.3	2614.9	2390.3
-5°	36157.9	20122.6	10951.6	6032.8	4735.9	4131.5	3723.0	3426.3	3017.2	2640.9	2375.6
-7.5°	31400.7	18020.4	9860.8	5840.5	4706.4	4149.4	3768.4	3475.6	3094.8	2722.3	2358.6
-10°	24790.2	14644.8	8294.3	5568.3	4644.7	4137.8	3795.5	3479.7	3124.5	2781.1	2301.4
-12.5°	19733.9	11465.1	6650.1	5178.6	4557.8	4113.4	3805.8	3454.5	3135.6	2835.4	2232.6
-15°	13770.0	8594.8	5990.3	5011.3	4473.9	4077.9	3785.8	3407.2	3123.9	2859.6	2105.1
-17.5°	9716.4	6566.6	5338.4	4762.2	4349.5	4041.2	3711.5	3371.2	3087.9	2729.6	1908.5
-20°	6625.4	5615.3	5053.1	4600.6	4236.0	3972.0	3612.9	3317.6	3017.0	2457.2	1764.7



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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°	5616.0	5159.8	4790.3	4435.9	4185.6	3853.7	3525.2	3236.9	2913.2	2148.5	1606.2
-25°	5103.2	4817.4	4556.2	4356.3	4085.6	3745.0	3444.3	3108.7	2561.4	1893.4	1460.2
-27.5°	4732.1	4537.4	4418.8	4226.2	3937.3	3641.9	3330.4	2913.9	2159.2	1686.0	1464.2
-30°	4464.8	4368.2	4243.5	4046.2	3783.7	3502.6	3197.8	2491.4	1884.7	1523.7	1458.9
-32.5°	4290.0	4187.8	4041.2	3837.7	3600.6	3339.0	2725.5	2093.8	1631.6	1513.5	1424.6
-35°	4127.3	3975.7	3781.6	3589.2	3404.4	2814.0	2208.0	1753.2	1565.3	1489.2	1377.8
-37.5°	3868.2	3686.0	3490.0	3256.2	2752.7	2222.8	1795.2	1607.7	1541.2	1436.0	1308.3
-40°	3510.5	3325.2	2963.1	2564.3	2149.5	1742.0	1633.7	1582.0	1480.7	1365.1	1224.4
-42.5°	2906.1	2568.2	2262.8	1945.6	1682.8	1644.8	1595.0	1507.3	1400.3	1268.5	1135.9
-45°	2160.8	1899.2	1676.6	1662.2	1638.8	1582.0	1510.4	1409.0	1292.0	1167.6	1042.2
-47.5°	1655.8	1637.3	1627.9	1597.9	1547.8	1483.7	1390.6	1290.5	1177.5	1063.2	955.9
-50°	1596.2	1564.0	1530.3	1488.8	1419.0	1342.2	1256.9	1162.8	1063.4	967.5	866.3
-52.5°	1490.0	1438.9	1385.7	1330.7	1269.4	1200.4	1122.2	1044.4	960.3	867.0	773.4
-55°	1318.0	1271.8	1227.0	1177.3	1123.5	1065.7	1002.3	928.6	846.0	760.2	680.6
-57.5°	1150.9	1108.5	1075.1	1035.1	989.5	934.7	874.1	802.3	729.5	657.7	588.4
-60°	1000.9	961.7	930.6	892.7	848.5	798.3	744.8	683.9	617.9	564.5	512.1
-62.5°	849.2	814.4	782.8	748.3	709.7	667.1	621.9	578.5	529.4	480.5	429.6
-65°	693.7	660.1	632.8	611.4	584.1	554.9	519.9	481.3	435.6	390.7	344.0
-67.5°	555.5	530.6	511.0	492.3	468.4	441.6	409.3	374.7	341.5	308.5	272.0
-70°	427.5	407.5	388.9	369.6	351.8	334.5	312.7	287.9	260.1	238.2	218.5
-72.5°	315.2	302.6	289.6	276.7	262.1	252.0	241.3	227.9	212.7	195.8	181.3
-75°	240.5	233.5	226.6	220.6	213.7	206.0	199.3	191.8	183.7	174.6	165.6
-77.5°	202.2	197.7	193.5	190.7	187.5	183.6	178.8	172.7	166.4	158.9	151.5
-80°	180.8	177.2	173.8	171.2	168.4	165.1	161.5	156.2	150.7	144.4	138.2
-82.5°	161.9	158.9	155.9	153.5	150.9	148.3	145.4	140.9	136.2	130.8	125.4
-85°	144.2	141.7	139.2	137.2	135.1	132.8	130.3	126.4	122.4	117.8	113.3
-87.5°	129.7	127.5	125.3	123.4	121.5	119.3	117.0	113.8	110.5	106.9	103.4
-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°	92.4	88.4	85.4	82.4	79.1	75.8	72.1	68.4	63.8	59.1	53.5
87.5°	1.3	1.3	1.5	1.7	1.7	1.6	1.6	1.6	1.7	1.8	2.0
85°	1.5	1.5	1.7	2.0	2.0	2.0	1.9	1.9	2.1	2.3	2.3
82.5°	2.0	2.0	1.9	2.0	2.2	2.3	2.3	2.2	2.5	2.7	2.6
80°	2.3	2.4	2.3	2.2	2.4	2.7	2.6	2.5	2.7	2.9	2.9
77.5°	2.8	2.8	2.7	2.6	2.6	2.7	2.8	2.8	3.0	3.2	3.2
75°	3.3	3.1	2.8	2.8	2.9	2.8	3.0	3.2	3.4	3.4	3.5
72.5°	3.3	3.3	3.1	3.0	3.4	3.5	3.5	3.5	3.9	4.0	3.9
70°	5.0	3.9	3.7	3.8	4.1	4.3	4.3	4.4	4.4	4.6	4.6
67.5°	8.1	6.7	5.5	4.8	4.8	5.1	5.3	5.5	5.6	5.3	5.3
65°	15.5	11.2	7.9	6.9	6.1	6.1	6.2	6.8	6.8	6.7	6.1
62.5°	22.2	17.2	13.2	9.9	8.2	8.2	7.3	8.2	8.2	8.2	7.4
60°	28.2	23.1	19.1	15.7	12.6	11.1	10.5	9.7	9.9	9.7	8.9
57.5°	28.4	28.0	26.2	22.2	19.4	16.2	14.5	13.2	12.0	11.8	10.6
55°	28.9	29.3	32.8	30.4	27.5	23.3	20.3	17.8	15.0	14.2	12.3
52.5°	34.5	35.5	38.3	40.2	38.0	32.1	29.0	22.9	20.6	16.8	14.8
50°	44.3	47.7	48.1	51.5	49.8	45.9	38.4	32.2	26.8	20.5	17.4
47.5°	69.1	72.2	66.1	67.8	64.7	61.9	52.8	43.4	33.4	26.7	20.1
45°	131.4	113.1	102.4	93.6	85.6	82.3	70.2	55.7	44.8	33.3	22.9
42.5°	213.0	185.5	164.1	124.6	120.0	106.3	91.1	74.7	57.2	40.1	27.7
40°	328.1	275.5	239.1	197.1	162.4	133.5	118.0	96.1	70.3	48.7	33.8
37.5°	436.5	369.3	323.0	272.0	215.9	177.9	147.6	119.0	85.9	60.7	40.1
35°	523.6	456.9	394.2	341.5	284.7	222.5	179.4	144.6	106.1	73.2	46.5
32.5°	602.6	531.7	460.6	401.2	339.6	265.9	216.5	170.0	126.3	86.2	53.2
30°	672.6	604.8	523.8	450.3	384.8	311.4	251.6	193.8	146.7	99.6	60.9
27.5°	749.0	680.6	588.1	503.6	424.6	350.9	279.6	215.9	166.9	113.1	71.0
25°	820.8	751.3	659.5	563.5	464.8	382.5	305.8	236.5	185.9	126.9	80.6
22.5°	869.0	810.8	725.2	626.8	509.1	413.3	331.3	258.9	198.8	139.4	89.6
20°	907.8	863.2	783.2	674.7	557.3	449.7	356.8	277.0	210.7	150.8	98.0
17.5°	963.2	905.4	824.3	714.9	601.6	486.3	381.5	294.0	221.7	161.0	105.8
15°	1099.3	942.4	864.3	752.8	635.7	517.6	405.4	310.1	231.7	169.9	112.8
12.5°	1240.4	978.4	903.1	785.6	660.8	544.3	428.4	325.1	240.7	179.1	119.0
10°	1372.9	1009.7	939.1	815.5	682.7	566.8	450.1	341.5	254.0	188.5	124.6
7.5°	1484.9	1038.2	973.0	842.6	702.5	587.1	472.0	362.0	267.4	197.1	129.5
5°	1579.5	1064.4	1005.9	875.9	725.9	605.8	491.3	381.0	280.0	204.9	133.8
2.5°	1644.0	1088.2	1035.5	907.0	746.4	621.4	507.8	398.2	291.5	211.6	137.3
0°	1686.7	1109.8	1060.6	933.7	763.6	634.0	521.7	413.4	301.7	217.3	140.2
-2.5°	1700.1	1132.3	1081.3	956.3	791.1	650.7	531.8	420.5	308.6	223.7	145.0
-5°	1690.5	1153.1	1098.1	974.3	814.1	664.1	539.3	425.3	314.1	228.8	148.9
-7.5°	1661.6	1176.5	1112.1	987.8	831.8	673.8	544.0	427.8	317.9	232.6	152.0
-10°	1612.4	1199.9	1123.3	992.8	834.5	678.8	546.2	428.2	320.3	234.9	154.2
-12.5°	1550.4	1221.4	1130.3	991.9	831.2	679.9	548.1	427.2	321.0	235.8	155.3
-15°	1471.2	1248.5	1139.1	985.7	823.8	677.8	546.4	423.9	319.0	234.4	155.4
-17.5°	1367.3	1273.7	1144.8	977.8	813.7	672.6	540.9	417.7	315.3	230.6	154.0
-20°	1364.7	1284.6	1141.7	962.6	799.2	663.2	531.5	408.3	309.7	225.4	151.4



REPORT NUMBER: P701422 (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°
-22.5°	1383.7	1280.1	1123.8	942.4	781.9	649.8	519.1	396.1	302.3	218.8	147.9
-25°	1394.1	1271.5	1098.7	920.5	764.2	632.9	504.5	383.2	293.1	211.0	143.4
-27.5°	1377.1	1246.0	1065.9	891.4	744.0	612.8	487.7	374.0	284.7	201.7	138.0
-30°	1348.0	1197.7	1025.8	857.7	717.8	589.5	467.9	362.9	275.5	194.2	131.7
-32.5°	1304.7	1145.7	980.6	825.4	688.0	562.7	445.4	349.7	264.8	187.8	127.5
-35°	1236.3	1087.1	932.0	789.0	655.0	535.3	423.9	334.2	252.5	179.7	124.0
-37.5°	1162.5	1019.9	887.2	749.5	620.4	505.4	405.0	318.0	238.8	170.0	120.0
-40°	1085.1	952.0	829.4	706.7	584.7	473.2	383.3	299.6	225.4	158.6	115.2
-42.5°	1004.0	885.5	769.7	657.0	546.0	446.2	359.0	278.3	209.4	150.0	109.6
-45°	928.2	815.9	706.7	604.4	504.6	415.9	332.1	254.9	191.6	142.6	105.4
-47.5°	848.4	743.5	643.3	548.4	466.8	382.3	301.8	233.1	172.5	134.1	103.7
-50°	766.2	670.0	578.7	497.5	422.9	344.9	270.1	209.6	161.1	124.2	101.6
-52.5°	682.9	595.9	518.3	447.1	375.5	304.1	240.8	185.3	148.8	118.7	99.2
-55°	598.8	528.2	461.1	392.9	325.4	266.1	209.2	169.8	135.7	115.0	96.5
-57.5°	526.7	464.2	399.3	335.5	279.4	227.4	185.5	153.6	129.1	111.0	94.7
-60°	455.2	393.8	333.9	283.6	235.8	196.0	166.6	140.2	124.2	107.1	92.4
-62.5°	375.3	322.4	277.9	234.2	200.9	173.3	149.2	133.5	118.8	103.9	89.8
-65°	302.5	262.0	224.1	199.1	174.3	153.4	140.7	126.4	113.9	100.4	87.0
-67.5°	235.5	213.5	191.4	168.9	155.4	143.8	131.8	120.5	109.1	96.6	84.2
-70°	198.0	178.0	165.0	154.9	144.7	134.3	124.9	115.0	104.2	93.0	81.1
-72.5°	171.3	161.7	152.4	143.2	135.0	126.6	118.2	109.3	99.3	89.1	77.9
-75°	156.8	148.7	140.9	133.3	126.0	118.6	111.3	103.2	94.2	85.0	74.4
-77.5°	144.2	137.0	130.1	123.6	117.4	111.2	104.3	97.0	88.9	80.6	70.8
-80°	132.0	125.8	120.1	114.5	109.1	103.6	97.1	90.7	83.4	75.9	67.0
-82.5°	120.0	114.7	110.0	105.1	100.3	95.3	89.8	84.3	77.7	71.1	63.3
-85°	108.6	103.8	99.6	95.4	91.2	87.0	82.7	78.4	72.8	67.1	60.1
-87.5°	99.3	95.2	91.8	88.4	85.0	81.4	77.4	73.4	68.3	63.2	56.8
-90°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.7



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	47.8	40.2	32.6	23.6	14.6	8.3	2.0
87.5°	2.2	2.2	2.2	2.2	2.1	2.2	2.0
85°	2.4	2.4	2.5	2.3	2.2	2.3	2.0
82.5°	2.6	2.7	2.7	2.5	2.3	2.5	2.0
80°	2.8	2.9	2.9	2.7	2.5	2.6	2.0
77.5°	3.1	3.2	3.1	2.8	2.6	2.8	2.0
75°	3.5	3.5	3.4	3.0	2.8	3.0	2.0
72.5°	3.9	3.9	3.7	3.2	2.9	3.1	2.0
70°	4.3	4.3	4.1	3.4	3.1	3.3	2.0
67.5°	5.1	4.7	4.5	3.8	3.3	3.5	2.0
65°	6.0	5.4	4.9	4.2	3.5	3.6	2.0
62.5°	6.9	6.3	5.4	4.6	3.7	3.8	2.0
60°	7.8	7.2	5.8	5.0	3.9	4.0	2.0
57.5°	9.3	8.1	6.7	5.4	4.4	4.2	2.0
55°	10.9	9.1	7.6	5.8	4.8	4.3	2.0
52.5°	12.5	10.2	8.6	6.3	5.3	4.5	2.0
50°	14.1	11.7	9.5	6.7	5.8	4.7	2.0
47.5°	15.8	13.2	10.5	7.2	6.3	4.9	2.0
45°	18.3	14.8	11.6	8.0	6.8	5.1	2.0
42.5°	20.8	16.5	12.6	8.8	7.3	5.3	2.0
40°	23.6	18.2	13.8	9.8	7.8	5.4	2.0
37.5°	26.6	19.9	15.1	10.9	8.4	5.6	2.0
35°	29.7	22.2	16.5	12.0	8.9	5.8	2.0
32.5°	33.5	24.6	17.8	13.1	9.5	6.0	2.0
30°	39.0	27.1	19.1	14.2	10.0	6.2	2.0
27.5°	44.5	29.5	20.9	15.3	10.5	6.4	2.0
25°	49.8	31.9	22.6	16.4	11.1	6.5	2.0
22.5°	55.0	34.4	24.3	17.4	11.6	6.7	2.0
20°	60.1	36.9	26.0	18.5	12.2	6.9	2.0
17.5°	64.8	39.3	27.6	19.6	12.7	7.0	2.0
15°	69.1	41.6	29.2	20.6	13.2	7.2	2.0
12.5°	73.1	43.7	30.7	21.6	13.7	7.4	2.0
10°	76.7	45.8	32.1	22.5	14.2	7.5	2.0
7.5°	80.0	47.7	33.5	23.4	14.6	7.6	2.0
5°	83.0	49.4	34.8	24.3	15.1	7.8	2.0
2.5°	85.5	51.0	36.0	25.1	15.5	7.9	2.0
0°	87.7	52.5	37.2	25.9	15.9	8.0	2.0
-2.5°	90.5	54.7	38.9	27.1	16.6	8.3	2.0
-5°	92.9	56.8	40.4	28.1	17.3	8.6	2.0
-7.5°	94.9	58.6	41.9	29.2	17.9	8.9	2.0
-10°	96.4	60.4	43.2	30.1	18.6	9.2	2.0
-12.5°	97.4	61.9	44.5	31.0	19.1	9.5	2.0
-15°	97.9	63.2	45.6	31.8	19.7	9.8	2.0
-17.5°	98.0	64.4	46.7	32.6	20.2	10.0	2.0
-20°	97.6	65.3	47.6	33.2	20.6	10.2	2.0



REPORT NUMBER: P701422 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-57-70-3S-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	96.9	66.1	48.3	33.8	21.0	10.4	2.0
-25°	95.6	66.8	49.0	34.3	21.4	10.6	2.0
-27.5°	93.8	67.3	49.5	34.7	21.7	10.8	2.0
-30°	91.5	67.6	49.9	35.0	22.0	10.9	2.0
-32.5°	88.8	67.8	50.3	35.3	22.2	11.1	2.0
-35°	87.7	67.8	50.7	35.4	22.3	11.2	2.0
-37.5°	87.5	67.7	50.9	35.4	22.5	11.2	2.0
-40°	86.9	67.8	51.0	35.4	22.5	11.3	2.0
-42.5°	86.2	67.8	51.1	35.3	22.5	11.4	2.0
-45°	85.1	67.6	51.0	35.3	22.5	11.4	2.0
-47.5°	83.7	67.2	50.8	35.1	22.4	11.4	2.0
-50°	82.8	66.7	50.5	35.0	22.3	11.3	2.0
-52.5°	81.7	66.1	50.0	34.9	22.1	11.3	2.0
-55°	80.5	65.1	49.3	34.6	21.9	11.2	2.0
-57.5°	79.0	63.9	48.6	34.3	21.6	11.1	2.0
-60°	77.3	62.6	47.7	33.9	21.3	11.0	2.0
-62.5°	75.5	61.1	47.0	33.4	20.9	10.9	2.0
-65°	73.5	59.5	46.1	32.8	20.6	10.8	2.0
-67.5°	71.3	57.9	45.1	32.2	20.1	10.6	2.0
-70°	69.0	56.3	44.0	31.4	19.7	10.4	2.0
-72.5°	66.5	54.5	42.8	30.7	19.2	10.2	2.0
-75°	63.9	52.5	41.5	29.8	18.6	10.0	2.0
-77.5°	61.1	50.5	40.2	29.0	18.0	9.7	2.0
-80°	58.2	48.5	38.9	28.0	17.4	9.5	2.0
-82.5°	55.7	46.5	37.4	27.0	16.8	9.2	2.0
-85°	53.2	44.5	35.9	25.9	16.1	8.9	2.0
-87.5°	50.5	42.4	34.3	24.8	15.3	8.6	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

