

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: P701430 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-57-70-5S-VHE-S**

Issue Date: 8/29/2023

Test Information

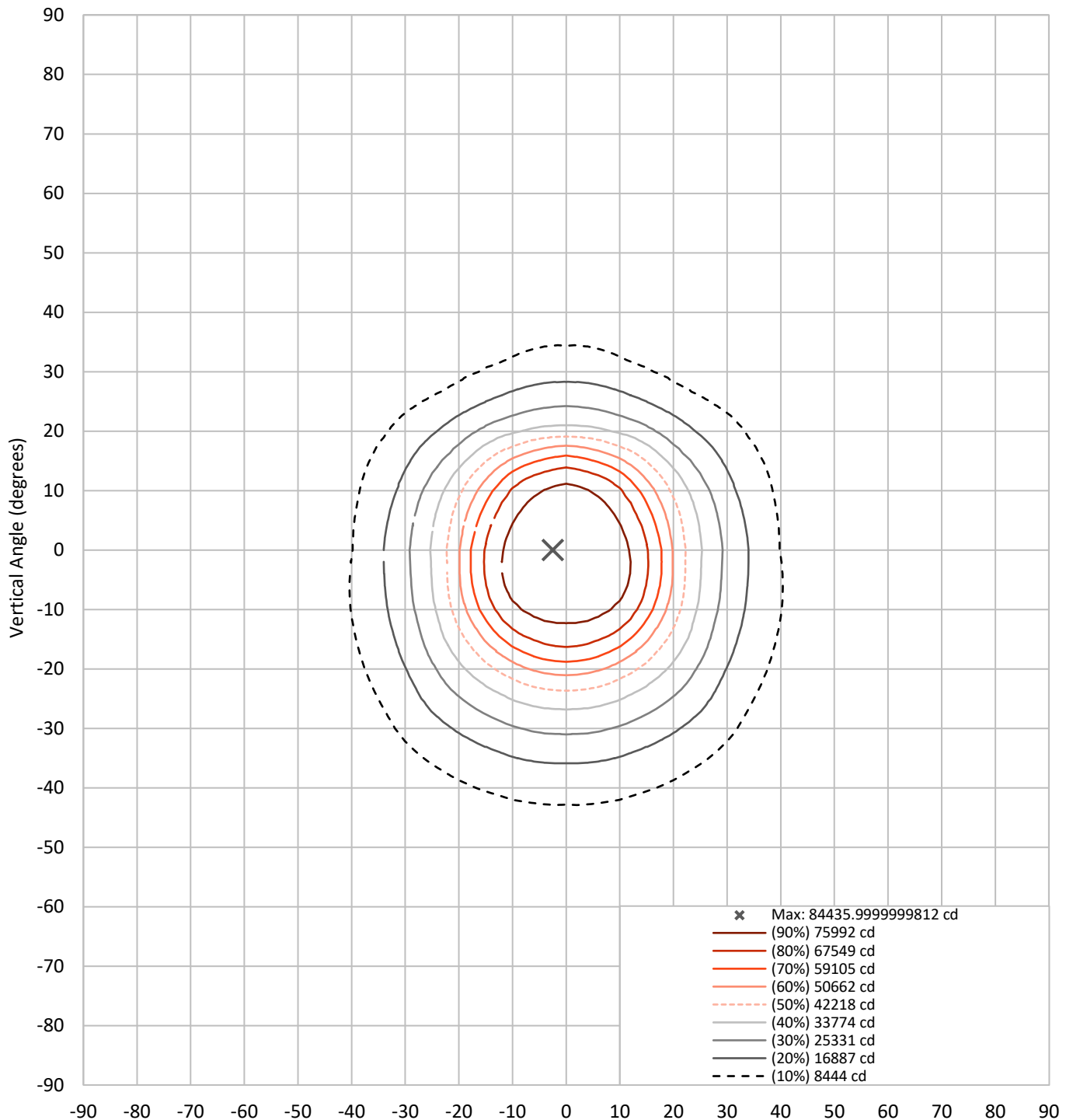
Test Method: LM-79-08
Report Number: P701430 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-5)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320L-57-70-5S-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 5700K, 70 CRI LEDS AND 5S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	54979.3 lumens	Max Intensity:	84436 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	159.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	44.5°H x 42.5°V	Field Angle (10%):	79.6°H x 77.3°V
Beam Lumens:	30188.8 lumens	Field Lumens:	50519.2 lumens
Beam Efficiency:	54.9%	Field Efficiency:	91.9%
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





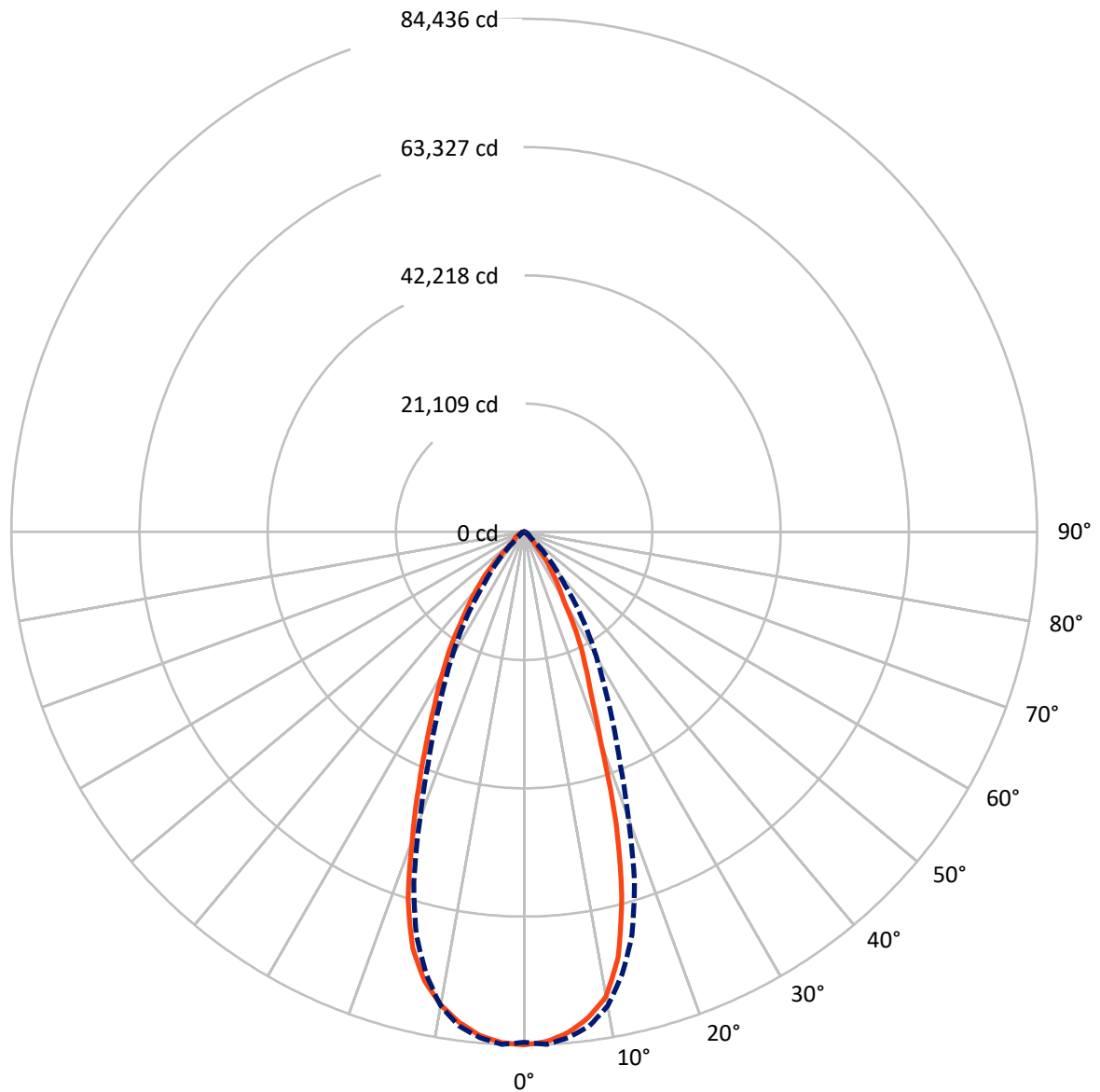
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Lumen Table

90																			
80	0.2	0.8		1.4		1.9		2.1		1.9		1.4		0.8		0.2			
70																			
60	0.2	0.1	0.2	0.3	0.4	0.4	0.5	0.6	0.6	0.5	0.4	0.4	0.3	0.2	0.1	0.2			
50		0.3	0.5	0.8	0.8	0.6	0.7	0.8	0.8	0.7	0.6	0.8	0.8	0.5	0.3				
40	0.6	0.7	1.6	3.3	5.9	12.1	26.7	36.0	36.0	26.7	12.1	5.9	3.3	1.6	0.7	0.6			
30		1.7	5.5	11.2	28.3	83.9	155.4	229.0	229.0	155.4	83.9	28.3	11.2	5.5	1.7				
20	1.4	2.8	9.5	24.2	116.4	275.1	505.8	694.4	694.4	505.8	275.1	116.4	24.2	9.5	2.8	1.4			
10		3.9	12.7	54.7	254.2	628.4	1222.7	1747.4	1747.4	1222.7	628.4	254.2	54.7	12.7	3.9				
0	2.0	4.8	14.9	83.0	357.9	912.5	1830.7	2428.5	2428.5	1830.7	912.5	357.9	83.0	14.9	4.8	2.0			
-10		5.4	16.7	88.5	385.6	956.9	1942.2	2466.5	2466.5	1942.2	956.9	385.6	88.5	16.7	5.4				
-20	2.4	5.6	17.5	73.0	328.3	799.7	1506.5	2034.2	2034.2	1506.5	799.7	328.3	73.0	17.5	5.6	2.4			
-30		5.3	17.5	45.3	212.9	529.5	880.5	1141.4	1141.4	880.5	529.5	212.9	45.3	17.5	5.3				
-40	2.4	4.8	15.3	32.6	86.6	257.6	433.4	550.6	550.6	433.4	257.6	86.6	32.6	15.3	4.8	2.4			
-50		4.0	11.4	24.7	41.8	68.3	127.9	179.3	179.3	127.9	68.3	41.8	24.7	11.4	4.0				
-60	2.2	3.2	7.5	15.5	27.4	38.3	47.2	53.9	53.9	47.2	38.3	27.4	15.5	7.5	3.2	2.2			
-70		2.6	5.0	8.7	14.2	19.4	24.7	28.4	28.4	24.7	19.4	14.2	8.7	5.0	2.6				
-80	1.6	9.6		21.3		33.4		40.9		33.4		21.3		9.6		1.6			
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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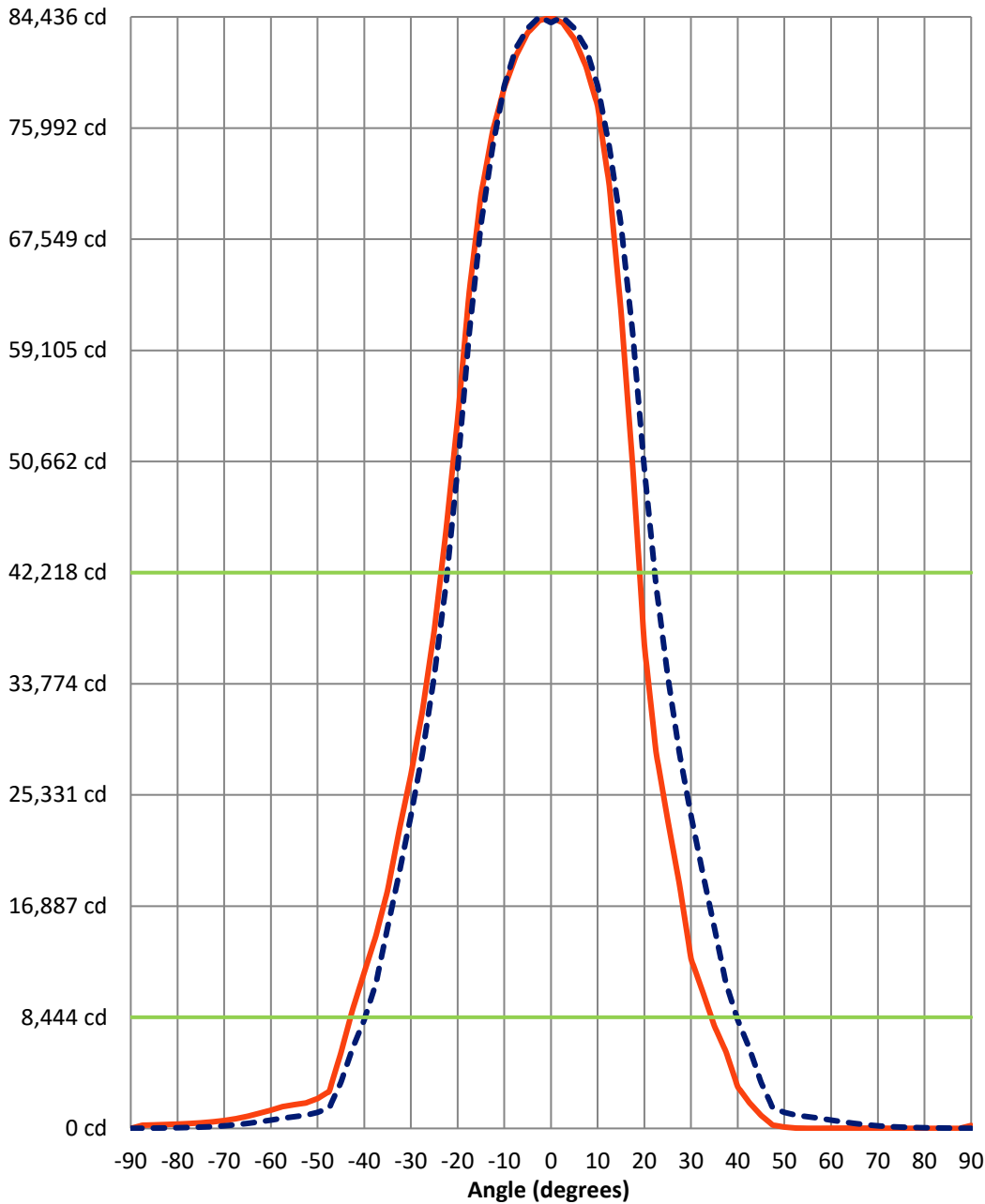
Luminous Intensity Polar Plot



— Vertical Distribution Through -2.5-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 44.5°
 V Angle: 42.5°
 Lumens: 30188.8
 Efficiency: 54.9%

Field:
 H Angle: 79.6°
 V Angle: 77.3°
 Lumens: 50519.2
 Efficiency: 91.9%

Spill:
 Lumens: 4460.1
 Efficiency: 8.1%

— Vertical Distribution through -2.5-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°	7.3	14.2	21.2	35.1	49.1	62.0	75.0	85.6	96.2	103.9	111.5
87.5°	7.3	6.8	6.2	6.2	6.2	6.3	6.3	6.0	5.7	5.7	5.6
85°	7.3	6.9	6.4	6.4	6.5	6.6	6.7	6.4	6.2	6.1	5.9
82.5°	7.3	7.1	6.5	6.6	6.7	6.8	7.0	6.8	6.7	6.5	6.2
80°	7.3	7.2	6.7	6.9	6.9	7.1	7.3	7.3	7.1	6.9	6.5
77.5°	7.3	7.4	6.9	7.1	7.1	7.5	7.7	7.7	7.6	7.3	6.8
75°	7.3	7.5	7.1	7.3	7.4	7.9	8.1	8.1	8.1	7.7	7.2
72.5°	7.3	7.7	7.3	7.5	7.9	8.4	8.5	8.5	8.4	8.0	7.5
70°	7.3	7.8	7.6	7.8	8.4	8.8	8.9	9.0	8.8	8.3	8.1
67.5°	7.3	8.0	7.8	8.2	8.9	9.3	9.5	9.5	9.2	9.0	8.9
65°	7.3	8.2	8.0	8.6	9.3	9.9	10.1	10.1	10.1	9.8	9.8
62.5°	7.3	8.3	8.3	9.0	9.8	10.4	10.7	11.0	11.1	10.9	11.5
60°	7.3	8.5	8.5	9.3	10.3	11.0	11.3	12.0	12.1	13.1	13.3
57.5°	7.3	8.6	8.9	9.7	11.0	11.5	12.6	13.1	14.9	15.9	17.0
55°	7.3	8.8	9.4	10.1	11.7	12.1	14.0	14.5	18.5	19.8	21.8
52.5°	7.3	9.0	9.9	10.5	12.5	12.9	15.6	18.2	22.5	25.7	27.3
50°	7.3	9.1	10.4	10.9	13.3	14.7	17.4	22.3	27.3	32.1	35.3
47.5°	7.3	9.3	10.9	11.3	14.2	16.6	19.5	26.5	33.5	38.8	44.2
45°	7.3	9.4	11.5	12.0	15.1	18.7	23.1	30.7	39.9	47.5	53.7
42.5°	7.3	9.6	12.1	12.8	16.1	20.8	26.8	35.9	46.4	56.5	67.9
40°	7.3	9.8	12.7	13.9	17.5	23.0	30.7	41.7	53.7	65.8	83.8
37.5°	7.3	9.9	13.3	15.2	19.3	25.4	35.0	47.7	62.1	76.9	100.6
35°	7.3	10.1	13.9	16.6	21.1	28.4	39.2	53.7	70.8	92.1	120.0
32.5°	7.3	10.2	14.6	18.0	22.8	31.8	43.8	60.1	79.6	107.5	142.0
30°	7.3	10.4	15.3	19.4	24.6	35.2	49.1	66.8	88.7	123.2	163.6
27.5°	7.3	10.5	16.0	20.8	27.1	38.5	54.3	74.1	98.9	139.0	184.8
25°	7.3	10.7	16.7	22.2	29.5	41.7	59.4	81.2	110.6	156.0	205.5
22.5°	7.3	10.8	17.4	23.7	31.9	45.1	64.4	87.9	121.7	170.7	227.4
20°	7.3	11.0	18.1	25.1	34.3	48.7	69.2	94.3	132.1	184.5	245.8
17.5°	7.3	11.1	18.8	26.6	36.6	52.1	73.9	100.4	141.8	197.6	263.1
15°	7.3	11.2	19.5	28.0	38.8	55.4	78.6	106.3	150.8	209.7	279.5
12.5°	7.3	11.4	20.2	29.4	41.0	58.6	82.9	112.1	159.8	220.9	294.9
10°	7.3	11.5	20.8	30.8	43.0	61.6	87.0	117.6	168.8	234.0	311.2
7.5°	7.3	11.6	21.5	32.1	45.0	64.4	90.7	122.7	177.1	246.8	330.7
5°	7.3	11.7	22.1	33.4	46.9	67.0	94.2	127.3	184.6	258.7	349.0
2.5°	7.3	11.8	22.7	34.6	48.7	69.5	97.4	131.6	191.3	269.3	365.8
0°	7.3	11.9	23.2	35.8	50.4	71.7	100.2	135.4	197.1	278.7	380.9
-2.5°	7.3	12.4	24.2	37.4	52.7	75.0	104.5	140.9	203.8	286.6	388.7
-5°	7.3	12.8	25.1	38.9	55.0	78.0	108.4	145.9	209.6	293.0	394.4
-7.5°	7.3	13.2	26.0	40.3	57.0	80.8	111.9	150.3	214.2	297.8	398.2
-10°	7.3	13.7	26.9	41.6	59.0	83.4	115.1	154.2	217.8	301.1	399.9
-12.5°	7.3	14.1	27.7	42.9	60.8	85.7	117.8	157.4	220.2	302.8	402.7
-15°	7.3	14.5	28.4	44.1	62.4	87.7	120.1	160.0	221.5	303.3	404.2
-17.5°	7.3	14.8	29.1	45.1	63.9	89.4	122.0	162.3	221.8	302.0	402.5
-20°	7.3	15.2	29.7	46.1	65.2	90.8	123.7	164.2	221.0	298.9	397.5



REPORT NUMBER: P701430 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-57-70-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	7.3	15.5	30.3	46.9	66.3	91.8	125.4	165.5	219.0	294.0	389.5
-25°	7.3	15.8	30.8	47.7	67.2	93.1	126.6	166.2	215.9	287.2	382.6
-27.5°	7.3	16.1	31.2	48.3	68.0	94.3	127.3	166.3	211.7	282.6	377.5
-30°	7.3	16.4	31.5	48.8	68.6	95.2	127.6	165.8	209.8	278.9	369.5
-32.5°	7.3	16.6	31.8	49.2	69.7	95.8	127.3	165.4	209.7	273.3	358.5
-35°	7.3	16.8	32.0	49.5	70.7	96.1	127.3	164.8	208.5	265.8	344.4
-37.5°	7.3	17.0	32.2	49.7	71.5	96.4	127.3	163.8	206.3	256.3	331.6
-40°	7.3	17.1	32.3	49.8	72.1	97.2	126.9	162.1	203.0	250.6	319.2
-42.5°	7.3	17.2	32.3	49.9	72.6	97.7	126.2	159.7	199.8	245.9	304.8
-45°	7.3	17.3	32.2	50.2	73.0	97.9	125.1	157.4	196.3	239.9	289.6
-47.5°	7.3	17.4	32.1	50.3	73.1	97.9	123.6	155.6	191.9	232.5	281.1
-50°	7.3	17.4	31.9	50.3	73.0	97.7	123.0	153.2	186.3	225.9	271.1
-52.5°	7.3	17.4	31.6	50.2	72.7	97.2	122.3	150.2	181.6	218.0	259.0
-55°	7.3	17.4	31.2	50.0	72.1	96.3	121.4	146.9	176.9	209.0	246.8
-57.5°	7.3	17.3	30.8	49.7	71.3	95.2	120.0	145.3	171.6	201.9	233.5
-60°	7.3	17.2	30.3	49.1	70.3	93.7	118.3	142.9	166.3	194.9	220.8
-62.5°	7.3	17.1	29.9	48.5	69.3	92.0	116.1	140.1	162.9	186.8	210.7
-65°	7.3	17.0	29.5	47.7	68.1	90.0	113.6	136.9	159.0	180.5	200.0
-67.5°	7.3	16.8	28.9	46.8	66.7	87.9	110.7	132.9	154.7	174.5	191.6
-70°	7.3	16.6	28.3	45.8	65.1	85.5	107.6	128.7	149.5	168.1	184.1
-72.5°	7.3	16.4	27.6	44.8	63.4	82.8	103.8	124.1	143.9	160.9	176.2
-75°	7.3	16.1	26.8	43.7	61.5	79.9	99.6	118.6	137.9	153.4	167.7
-77.5°	7.3	15.9	26.0	42.5	59.7	76.7	95.1	112.8	130.7	145.3	159.0
-80°	7.3	15.6	25.1	41.2	57.8	73.9	90.3	106.6	123.2	136.1	148.8
-82.5°	7.3	15.3	24.2	39.8	55.8	71.1	86.6	100.8	115.3	126.7	138.0
-85°	7.3	14.9	23.2	38.4	53.7	68.2	82.9	95.9	109.1	118.6	128.0
-87.5°	7.3	14.6	22.2	36.8	51.5	65.2	79.0	90.8	102.7	111.3	119.8
-90°	7.3	6.7	6.0	6.0	6.0	6.0	6.0	5.7	5.3	5.3	5.3



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 CATALOG NUMBER: EPH-LS-08-0320L-57-70-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	116.2	120.8	125.1	129.4	134.7	140.0	145.7	151.3	157.3	163.2	168.9
87.5°	5.3	5.0	5.0	5.0	4.7	4.4	4.2	4.0	3.7	3.3	3.2
85°	5.6	5.3	5.3	5.3	5.0	4.8	4.5	4.3	4.0	3.7	3.7
82.5°	6.0	6.0	5.7	5.3	5.2	5.3	5.0	4.6	4.4	4.2	4.1
80°	6.5	6.6	6.1	5.6	5.5	5.3	5.0	4.7	4.6	4.6	4.4
77.5°	6.7	6.6	6.3	6.0	5.7	5.5	5.3	5.1	4.9	4.7	4.6
75°	6.9	6.7	6.5	6.2	5.9	5.9	5.8	5.6	5.5	5.5	5.5
72.5°	7.3	7.1	6.8	6.3	6.1	6.3	6.3	6.1	6.3	6.5	6.5
70°	7.9	7.6	7.2	6.8	6.5	6.7	7.1	7.5	8.0	8.1	8.8
67.5°	8.6	8.3	7.7	7.3	7.1	7.6	8.0	9.6	11.2	12.0	12.9
65°	9.5	9.1	8.5	8.4	8.0	9.6	11.0	12.7	15.9	17.4	17.3
62.5°	10.7	10.8	10.0	10.2	11.5	13.0	15.4	19.0	22.7	24.1	22.9
60°	13.5	13.2	13.2	14.1	15.6	17.3	21.1	25.5	29.8	32.1	28.6
57.5°	17.3	17.2	18.3	18.8	20.8	21.4	26.3	31.9	35.5	38.3	33.8
55°	22.7	22.9	24.9	25.4	26.9	26.8	31.1	36.3	40.1	41.4	36.6
52.5°	30.1	30.5	34.0	34.5	34.0	34.5	36.1	41.7	44.8	44.9	40.7
50°	38.3	42.5	44.7	46.2	43.6	45.2	43.8	50.0	54.7	54.3	55.8
47.5°	50.4	56.1	59.3	61.6	59.6	64.6	63.5	73.1	76.4	94.7	97.6
45°	64.7	73.8	78.1	83.2	88.9	94.9	110.3	110.4	153.5	170.5	215.2
42.5°	80.8	94.5	106.2	108.3	136.9	153.6	174.6	217.8	259.9	312.8	333.0
40°	102.2	117.3	141.2	168.2	199.9	236.2	275.4	327.8	383.1	410.5	413.9
37.5°	125.8	154.3	187.6	236.6	285.3	332.9	382.6	433.8	473.7	483.8	520.9
35°	151.2	192.9	255.1	311.4	368.1	433.8	478.0	525.2	549.1	591.1	662.5
32.5°	183.1	232.6	310.0	383.1	446.2	517.6	560.0	596.1	652.3	724.9	882.8
30°	216.5	277.4	355.6	440.1	517.7	577.7	625.9	671.2	759.2	934.7	1475.9
27.5°	244.3	315.9	398.1	492.2	580.9	635.6	690.1	769.4	926.6	1288.2	2314.8
25°	269.2	346.9	439.7	549.0	635.8	696.0	767.1	879.0	1125.6	2107.1	3422.6
22.5°	293.5	377.5	487.3	608.7	691.5	755.4	863.1	1065.2	1582.0	2961.8	4542.9
20°	318.6	416.6	538.9	664.2	744.9	808.1	946.9	1246.1	2303.8	3881.9	5531.4
17.5°	344.9	456.1	589.2	703.6	779.1	863.3	1035.4	1394.4	2906.4	4741.2	6587.6
15°	370.6	493.9	632.1	737.6	810.4	922.9	1154.2	1831.9	3543.6	5700.7	7717.0
12.5°	395.2	528.3	665.5	764.3	841.3	978.4	1251.7	2313.9	4309.8	6591.6	8698.8
10°	418.4	559.1	693.5	789.6	875.0	1037.7	1345.7	2785.8	4980.6	7170.6	9304.8
7.5°	442.3	584.8	717.2	813.6	907.4	1093.5	1449.2	3152.4	5481.4	7616.0	9773.0
5°	463.9	604.5	740.0	840.6	940.8	1143.1	1532.9	3432.6	5857.2	7983.9	10190.0
2.5°	482.8	620.0	759.3	866.0	973.3	1184.6	1557.0	3510.5	6033.7	8181.9	10600.2
0°	499.0	631.7	775.0	888.5	1002.6	1218.3	1563.3	3496.9	6077.4	8241.9	10999.6
-2.5°	508.2	646.8	803.1	920.9	1028.8	1245.5	1596.4	3502.1	6114.3	8662.0	11513.1
-5°	514.6	658.1	826.1	949.6	1052.1	1264.6	1614.8	3422.5	6064.4	8883.1	11663.3
-7.5°	518.2	665.3	843.0	973.4	1073.2	1278.5	1625.2	3293.0	6067.2	8893.2	11474.5
-10°	520.1	672.1	851.0	986.8	1091.3	1285.2	1620.2	3070.7	5826.3	8652.5	11163.4
-12.5°	526.4	678.3	853.8	996.8	1105.7	1286.7	1627.6	2853.1	5374.5	8214.2	10718.8
-15°	528.8	680.0	852.2	1004.9	1129.1	1302.4	1627.8	2515.1	4788.0	7658.2	10159.6
-17.5°	527.2	676.9	847.4	1016.8	1150.6	1303.7	1590.9	2071.8	4118.1	6867.1	9423.3
-20°	521.4	669.9	836.8	1022.6	1162.9	1314.5	1580.0	1999.8	3461.5	5878.0	8529.4



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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°	513.1	659.0	821.6	1009.8	1177.0	1338.1	1565.2	1904.1	2689.5	4748.0	7422.7
-25°	503.2	647.0	805.4	994.9	1183.6	1353.3	1519.3	1776.3	2236.2	3781.3	6052.9
-27.5°	492.8	629.9	788.0	970.2	1179.6	1346.0	1492.3	1705.4	2030.4	2707.2	4625.7
-30°	479.6	609.4	762.5	938.2	1144.7	1323.8	1475.9	1613.8	1835.7	2242.4	3394.0
-32.5°	463.4	585.4	734.1	901.9	1092.0	1297.2	1437.8	1557.6	1726.7	1975.9	2448.4
-35°	445.2	564.1	702.5	855.9	1029.6	1230.3	1380.5	1507.3	1621.5	1813.4	2115.5
-37.5°	426.7	538.0	661.8	807.3	972.7	1136.6	1313.8	1440.1	1555.2	1675.6	1890.8
-40°	405.0	505.4	621.5	756.0	896.1	1044.9	1209.3	1367.6	1481.2	1606.7	1735.8
-42.5°	381.2	474.5	578.2	694.9	820.7	954.4	1100.3	1258.8	1411.2	1531.2	1649.8
-45°	362.1	441.1	532.2	636.1	744.3	863.3	996.4	1135.3	1297.0	1452.4	1562.1
-47.5°	338.9	407.8	491.8	574.2	672.2	778.3	892.0	1023.5	1159.2	1312.2	1462.2
-50°	316.8	379.9	444.5	518.8	602.0	695.3	796.6	912.4	1037.9	1163.2	1299.3
-52.5°	301.6	349.9	405.0	463.6	536.2	616.2	706.0	804.3	914.3	1023.8	1141.8
-55°	285.0	326.8	366.4	416.0	473.1	542.5	620.5	706.4	790.3	890.3	990.5
-57.5°	268.7	303.4	335.2	373.4	421.0	472.0	542.8	614.3	687.2	764.6	849.3
-60°	252.3	280.7	308.5	339.3	374.1	419.2	468.4	528.2	587.7	649.6	724.5
-62.5°	235.8	259.0	282.8	309.4	339.0	369.5	409.7	453.2	494.9	551.3	611.0
-65°	222.6	238.6	258.3	281.7	305.5	333.4	361.4	388.7	425.4	468.1	511.4
-67.5°	208.4	223.4	237.9	254.3	275.8	298.8	322.0	346.5	371.3	400.7	432.3
-70°	198.1	208.7	221.5	235.1	249.2	265.9	286.6	306.9	327.8	352.2	377.4
-72.5°	188.3	198.1	207.7	217.1	229.9	243.7	257.4	271.0	288.4	309.2	329.3
-75°	178.3	187.2	196.0	204.7	214.3	224.6	235.3	247.6	261.1	275.6	289.5
-77.5°	168.1	176.0	184.0	191.9	200.8	209.9	219.2	228.6	239.3	250.5	261.3
-80°	157.1	164.5	171.7	178.7	186.7	194.8	203.2	211.6	221.0	230.6	239.6
-82.5°	145.0	151.6	158.3	164.8	172.2	179.5	186.9	194.3	202.6	210.9	218.6
-85°	133.5	138.5	144.4	150.2	156.9	163.6	170.2	176.7	184.4	192.0	198.6
-87.5°	124.8	129.7	134.5	139.2	144.9	150.6	156.3	162.0	168.7	175.4	181.2
-90°	5.0	4.6	4.6	4.6	4.3	4.0	4.0	4.0	3.7	3.3	3.0



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	174.5	178.2	181.8	184.8	187.8	191.8	195.7	201.1	206.4	211.7	217.0
87.5°	3.2	3.0	2.7	2.7	2.6	2.6	2.7	2.3	2.0	2.0	2.0
85°	3.7	3.7	3.7	3.4	3.2	3.2	3.2	3.2	3.2	3.0	2.7
82.5°	4.0	4.0	4.0	3.7	3.3	3.3	3.3	3.3	3.3	3.0	2.7
80°	4.2	4.1	4.0	3.9	3.8	3.6	3.3	3.1	2.8	2.7	2.7
77.5°	4.7	4.5	4.3	4.2	4.0	3.7	3.4	3.0	2.7	2.7	2.7
75°	5.3	5.1	5.0	4.7	4.4	4.2	4.2	4.0	3.8	3.8	3.9
72.5°	6.4	6.3	6.3	6.5	6.4	6.6	6.9	7.2	7.5	8.0	8.7
70°	9.5	10.2	10.5	10.7	10.7	10.5	10.5	10.6	11.0	11.3	11.6
67.5°	14.0	15.0	15.6	15.8	14.8	14.2	14.3	14.5	15.1	16.0	17.4
65°	18.2	17.9	17.5	17.1	17.3	17.4	17.2	17.4	18.3	19.7	21.4
62.5°	21.4	18.5	16.8	16.0	16.6	17.6	16.8	16.3	17.1	18.0	18.8
60°	24.5	19.1	15.3	14.1	13.9	14.3	13.2	12.1	12.4	12.7	13.2
57.5°	27.4	20.5	14.2	12.1	10.1	9.1	8.8	8.5	8.2	8.0	8.1
55°	30.0	22.3	13.9	12.3	11.0	10.7	9.8	9.3	8.9	8.8	9.0
52.5°	33.2	28.7	22.8	21.2	23.9	24.1	21.4	25.3	28.4	29.8	30.3
50°	54.4	48.8	58.5	57.6	69.1	77.1	74.3	83.3	96.7	105.1	108.6
47.5°	119.6	119.8	139.1	156.2	170.4	188.9	203.1	216.9	236.0	247.8	253.2
45°	226.9	246.2	266.3	295.7	323.9	358.1	399.4	431.8	562.0	691.6	809.5
42.5°	347.3	368.5	398.0	461.9	537.9	713.8	1028.4	1204.0	1423.1	1661.7	1753.3
40°	447.5	478.3	559.3	739.3	1177.9	1595.5	2054.2	2442.0	2785.4	2982.9	3148.0
37.5°	571.3	644.7	1013.9	1523.5	2068.7	2592.1	3064.5	3474.4	3830.1	4118.7	4404.4
35°	751.7	1239.2	1784.6	2447.3	3026.9	3511.7	4001.1	4470.8	4874.3	5305.3	5945.7
32.5°	1425.0	2062.2	2763.7	3357.7	3924.1	4535.9	5050.1	5801.7	6390.3	7176.0	8376.9
30°	2287.1	3086.9	3722.9	4317.1	5043.5	5866.6	6725.4	7874.9	9076.0	10329.0	11618.5
27.5°	3394.1	4201.9	4872.5	5665.0	6624.1	7719.5	9361.4	10981.6	12704.2	14271.1	15461.9
25°	4728.4	5583.9	6730.2	7880.1	9252.6	11124.7	12969.2	14954.4	16681.4	18219.1	19940.4
22.5°	5979.0	7381.3	8895.0	10631.0	12866.1	14977.4	17258.0	19267.0	21434.4	23626.0	25321.0
20°	7034.7	8861.6	11033.0	13535.6	16013.1	18404.8	21058.7	24261.0	27487.7	30370.4	32462.3
17.5°	8458.9	10772.6	13475.4	16450.1	19117.3	22081.2	25774.9	29935.6	34457.0	38457.5	41629.5
15°	10014.9	12716.7	15772.8	18889.7	22264.1	26235.6	30985.3	36298.9	41829.5	47439.0	52665.1
12.5°	11072.8	14238.1	17575.4	21281.5	25490.4	30815.2	36582.5	42473.0	48793.3	55772.9	61835.2
10°	11977.2	15488.7	19515.0	23825.9	28662.1	34386.2	40347.0	47501.8	55390.8	62264.1	68757.4
7.5°	12871.6	16998.0	21203.8	25692.4	31005.8	37222.9	44277.5	51972.3	60000.9	67471.7	72781.7
5°	13930.1	18211.0	22416.5	27158.0	32722.3	39189.3	46630.3	55466.4	63925.4	70792.6	75581.9
2.5°	14805.3	18938.7	23244.9	27937.8	33656.5	40408.6	48484.6	58304.1	66983.9	73404.9	77738.7
0°	15250.9	19404.7	23766.2	28535.1	34397.5	41287.0	50098.2	60413.7	68617.1	74548.8	79190.0
-2.5°	15305.2	19256.5	23537.7	28241.1	33970.7	40997.0	50029.9	60467.3	69042.2	75207.4	79786.5
-5°	15147.0	19061.4	23334.3	28040.6	33692.7	41011.5	50081.1	60117.4	68403.3	74789.3	79101.8
-7.5°	14765.6	18702.9	22983.7	27620.8	33184.1	40282.1	48741.2	57838.4	66361.2	73261.3	77239.5
-10°	14206.7	18075.4	22290.2	26729.2	31975.7	38538.2	46103.4	54432.0	63044.4	69641.7	74229.4
-12.5°	13499.9	17161.3	21190.3	25387.0	30340.5	36454.6	43198.1	50172.0	57391.5	64913.0	69691.3
-15°	12688.5	16034.1	19805.6	24024.8	28922.1	34017.5	39374.1	45055.8	51655.6	57808.0	63370.1
-17.5°	11918.5	14800.0	18318.9	22429.7	26599.9	31027.4	35618.1	40256.9	45549.3	50378.8	54699.0
-20°	10950.8	13404.3	16646.7	20299.3	24174.3	28010.6	31953.7	35712.0	39554.1	43485.1	46916.3



REPORT NUMBER: P701430 (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°	9810.3	12196.4	14901.5	18081.9	21802.1	25216.4	28374.6	31311.6	34391.2	37111.2	39934.9
-25°	8567.9	10862.1	13348.0	16247.2	19103.5	22198.8	24820.0	27317.7	29706.5	31842.3	34038.0
-27.5°	7042.1	9464.1	11914.5	14234.9	16591.9	18814.4	21258.3	23562.8	25554.9	27316.8	29057.2
-30°	5323.3	7893.9	10211.9	12202.5	14071.1	15924.7	17795.7	19729.4	21615.3	23219.7	24645.2
-32.5°	3927.6	6072.1	8214.7	10165.3	11800.7	13332.7	14787.8	16304.9	17624.0	18978.3	20296.5
-35°	2598.6	4114.3	5892.9	7876.0	9579.3	10868.1	12187.4	13397.0	14391.4	15441.4	16436.5
-37.5°	2186.9	2590.3	3780.1	5390.1	6967.7	8449.7	9765.4	10817.0	11732.1	12570.8	13430.3
-40°	1929.1	2159.2	2497.7	3082.7	4409.4	5713.2	7068.7	8186.5	9161.4	9965.4	10756.7
-42.5°	1759.9	1917.8	2086.4	2316.8	2543.9	3182.4	4295.1	5259.9	6174.4	7080.1	7895.4
-45°	1672.3	1760.8	1857.3	1982.6	2079.7	2252.7	2446.0	2627.6	3355.3	4141.8	4800.1
-47.5°	1567.1	1661.6	1733.7	1792.7	1839.9	1915.9	1996.3	2101.3	2269.7	2468.4	2620.1
-50°	1432.7	1547.4	1619.3	1678.4	1712.3	1741.8	1770.8	1836.5	1927.8	2036.2	2122.1
-52.5°	1258.9	1372.4	1474.3	1551.2	1588.6	1625.2	1661.6	1706.8	1758.7	1821.3	1866.2
-55°	1095.1	1189.9	1278.1	1349.8	1414.5	1473.3	1530.0	1577.9	1633.9	1693.4	1735.3
-57.5°	939.6	1016.1	1088.5	1150.6	1206.6	1256.1	1314.1	1377.0	1448.6	1516.8	1564.8
-60°	794.3	855.2	915.3	965.8	1011.3	1051.9	1105.5	1158.3	1221.1	1277.0	1317.7
-62.5°	664.3	717.5	762.0	800.1	834.4	868.4	913.4	957.6	1009.2	1053.9	1087.7
-65°	552.0	596.3	627.6	655.9	680.8	709.7	744.6	780.0	820.6	855.3	883.0
-67.5°	465.3	495.4	515.1	532.5	553.2	576.2	602.5	630.8	662.4	688.6	709.8
-70°	399.8	418.6	430.5	443.5	458.6	474.5	492.4	513.7	537.7	558.1	575.8
-72.5°	348.0	362.3	372.2	382.2	391.3	402.2	414.2	430.1	447.9	463.9	478.7
-75°	303.1	313.3	322.5	331.2	339.1	348.4	357.9	371.3	385.9	399.1	411.5
-77.5°	272.9	280.8	286.9	292.8	298.5	306.2	314.1	324.9	336.2	347.1	357.6
-80°	248.6	254.7	259.9	264.2	268.2	274.7	281.4	290.3	299.3	308.7	318.1
-82.5°	226.2	231.5	236.5	240.6	244.4	250.3	256.3	264.2	272.2	280.0	287.8
-85°	205.2	210.1	214.8	218.7	222.4	227.2	232.0	238.8	245.7	252.8	259.9
-87.5°	187.0	191.6	196.1	199.2	202.2	206.5	210.7	216.6	222.4	228.5	234.6
-90°	2.7	2.7	2.7	2.4	2.0	2.0	2.0	1.7	1.3	1.3	1.3



REPORT NUMBER: P701430 (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°	219.7	222.3	223.6	224.9	223.6	222.3	219.7	217.0	211.7	206.4	201.1
87.5°	1.6	1.3	1.3	1.3	1.3	1.3	1.6	2.0	2.0	2.0	2.3
85°	2.3	2.0	2.3	2.7	2.3	2.0	2.3	2.7	3.0	3.2	3.2
82.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.0	3.3	3.3
80°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.8	3.1
77.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.0
75°	3.6	3.3	3.3	3.3	3.3	3.3	3.6	3.9	3.8	3.8	4.0
72.5°	9.0	9.1	9.6	10.0	9.6	9.1	9.0	8.7	8.0	7.5	7.2
70°	11.7	11.8	11.9	11.9	11.9	11.8	11.7	11.6	11.3	11.0	10.6
67.5°	18.1	18.4	19.1	19.9	19.1	18.4	18.1	17.4	16.0	15.1	14.5
65°	22.6	23.6	23.9	23.9	23.9	23.6	22.6	21.4	19.7	18.3	17.4
62.5°	19.6	20.5	20.6	20.6	20.6	20.5	19.6	18.8	18.0	17.1	16.3
60°	13.7	14.0	14.3	14.6	14.3	14.0	13.7	13.2	12.7	12.4	12.1
57.5°	8.3	8.7	8.7	8.6	8.7	8.7	8.3	8.1	8.0	8.2	8.5
55°	9.1	9.2	9.0	8.6	9.0	9.2	9.1	9.0	8.8	8.9	9.3
52.5°	29.5	28.1	26.6	25.2	26.6	28.1	29.5	30.3	29.8	28.4	25.3
50°	107.5	105.7	103.1	100.2	103.1	105.7	107.5	108.6	105.1	96.7	83.3
47.5°	258.0	258.6	256.1	251.5	256.1	258.6	258.0	253.2	247.8	236.0	216.9
45°	912.3	961.9	988.6	1007.3	988.6	961.9	912.3	809.5	691.6	562.0	431.8
42.5°	1833.3	1902.9	1955.8	1966.7	1955.8	1902.9	1833.3	1753.3	1661.7	1423.1	1204.0
40°	3343.7	3355.4	3161.4	2868.5	3161.4	3355.4	3343.7	3148.0	2982.9	2785.4	2442.0
37.5°	4744.7	5234.3	5803.1	6093.3	5803.1	5234.3	4744.7	4404.4	4118.7	3830.1	3474.4
35°	6809.8	7546.2	7785.1	7791.3	7785.1	7546.2	6809.8	5945.7	5305.3	4874.3	4470.8
32.5°	9459.9	10058.7	10378.3	10291.6	10378.3	10058.7	9459.9	8376.9	7176.0	6390.3	5801.7
30°	12369.9	12890.9	12895.0	12720.8	12895.0	12890.9	12369.9	11618.5	10329.0	9076.0	7874.9
27.5°	16694.5	17795.4	18570.2	18779.0	18570.2	17795.4	16694.5	15461.9	14271.1	12704.2	10981.6
25°	21491.4	22701.1	23444.9	23715.7	23444.9	22701.1	21491.4	19940.4	18219.1	16681.4	14954.4
22.5°	26898.5	28074.6	28611.3	28892.0	28611.3	28074.6	26898.5	25321.0	23626.0	21434.4	19267.0
20°	34456.4	36128.6	36759.0	37028.4	36759.0	36128.6	34456.4	32462.3	30370.4	27487.7	24261.0
17.5°	44925.4	48228.1	50293.1	51353.7	50293.1	48228.1	44925.4	41629.5	38457.5	34457.0	29935.6
15°	56532.9	59885.8	62090.8	63412.9	62090.8	59885.8	56532.9	52665.1	47439.0	41829.5	36298.9
12.5°	66490.6	69479.6	71609.3	72875.4	71609.3	69479.6	66490.6	61835.2	55772.9	48793.3	42473.0
10°	72878.9	75442.2	77651.7	78730.8	77651.7	75442.2	72878.9	68757.4	62264.1	55390.8	47501.8
7.5°	76489.3	79469.8	80667.6	81405.6	80667.6	79469.8	76489.3	72781.7	67471.7	60000.9	51972.3
5°	79287.5	81642.8	82748.5	83288.1	82748.5	81642.8	79287.5	75581.9	70792.6	63925.4	55466.4
2.5°	81155.4	83200.2	83982.1	84417.4	83982.1	83200.2	81155.4	77738.7	73404.9	66983.9	58304.1
0°	82051.9	83559.5	84436.0	84008.7	84436.0	83559.5	82051.9	79190.0	74548.8	68617.1	60413.7
-2.5°	82058.1	83491.2	84142.7	83825.5	84142.7	83491.2	82058.1	79786.5	75207.4	69042.2	60467.3
-5°	81356.1	82425.6	83219.2	82964.9	83219.2	82425.6	81356.1	79101.8	74789.3	68403.3	60117.4
-7.5°	79462.8	80884.2	81465.5	81493.8	81465.5	80884.2	79462.8	77239.5	73261.3	66361.2	57838.4
-10°	76858.4	78434.3	79053.2	79116.4	79053.2	78434.3	76858.4	74229.4	69641.7	63044.4	54432.0
-12.5°	72987.6	74836.2	75726.9	75885.6	75726.9	74836.2	72987.6	69691.3	64913.0	57391.5	50172.0
-15°	66978.5	69470.2	70876.6	71370.1	70876.6	69470.2	66978.5	63370.1	57808.0	51655.6	45055.8
-17.5°	58809.5	61786.6	63540.3	64158.8	63540.3	61786.6	58809.5	54699.0	50378.8	45549.3	40256.9
-20°	50288.5	52495.6	53847.5	54404.7	53847.5	52495.6	50288.5	46916.3	43485.1	39554.1	35712.0



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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°	42537.8	44317.3	45321.8	45768.0	45321.8	44317.3	42537.8	39934.9	37111.2	34391.2	31311.6
-25°	35815.6	37314.3	37829.5	38119.9	37829.5	37314.3	35815.6	34038.0	31842.3	29706.5	27317.7
-27.5°	30323.1	31512.0	31789.4	32045.9	31789.4	31512.0	30323.1	29057.2	27316.8	25554.9	23562.8
-30°	25694.9	26729.6	26871.0	27154.9	26871.0	26729.6	25694.9	24645.2	23219.7	21615.3	19729.4
-32.5°	21366.7	22288.0	22641.0	22695.2	22641.0	22288.0	21366.7	20296.5	18978.3	17624.0	16304.9
-35°	17222.2	17829.3	18069.6	18084.2	18069.6	17829.3	17222.2	16436.5	15441.4	14391.4	13397.0
-37.5°	13963.5	14350.6	14628.9	14552.2	14628.9	14350.6	13963.5	13430.3	12570.8	11732.1	10817.0
-40°	11200.1	11589.5	11843.8	11781.9	11843.8	11589.5	11200.1	10756.7	9965.4	9161.4	8186.5
-42.5°	8345.1	8773.4	9013.7	8947.2	9013.7	8773.4	8345.1	7895.4	7080.1	6174.4	5259.9
-45°	5175.4	5552.9	5730.0	5622.2	5730.0	5552.9	5175.4	4800.1	4141.8	3355.3	2627.6
-47.5°	2700.0	2785.9	2813.4	2774.9	2813.4	2785.9	2700.0	2620.1	2468.4	2269.7	2101.3
-50°	2189.1	2243.1	2266.2	2259.4	2266.2	2243.1	2189.1	2122.1	2036.2	1927.8	1836.5
-52.5°	1901.4	1926.3	1934.5	1929.6	1934.5	1926.3	1901.4	1866.2	1821.3	1758.7	1706.8
-55°	1770.6	1795.3	1803.9	1800.9	1803.9	1795.3	1770.6	1735.3	1693.4	1633.9	1577.9
-57.5°	1604.7	1635.1	1653.8	1663.5	1653.8	1635.1	1604.7	1564.8	1516.8	1448.6	1377.0
-60°	1350.5	1374.8	1381.8	1378.2	1381.8	1374.8	1350.5	1317.7	1277.0	1221.1	1158.3
-62.5°	1114.3	1134.2	1149.1	1159.2	1149.1	1134.2	1114.3	1087.7	1053.9	1009.2	957.6
-65°	903.4	917.8	920.8	918.3	920.8	917.8	903.4	883.0	855.3	820.6	780.0
-67.5°	724.7	735.5	736.9	734.5	736.9	735.5	724.7	709.8	688.6	662.4	630.8
-70°	587.6	596.6	597.8	596.5	597.8	596.6	587.6	575.8	558.1	537.7	513.7
-72.5°	487.4	493.9	499.0	503.0	499.0	493.9	487.4	478.7	463.9	447.9	430.1
-75°	417.8	422.5	423.7	424.0	423.7	422.5	417.8	411.5	399.1	385.9	371.3
-77.5°	363.2	367.9	371.3	374.2	371.3	367.9	363.2	357.6	347.1	336.2	324.9
-80°	322.3	325.9	328.6	331.1	328.6	325.9	322.3	318.1	308.7	299.3	290.3
-82.5°	291.8	295.5	297.8	299.9	297.8	295.5	291.8	287.8	280.0	272.2	264.2
-85°	263.0	265.9	268.0	270.1	268.0	265.9	263.0	259.9	252.8	245.7	238.8
-87.5°	237.4	240.1	241.5	242.9	241.5	240.1	237.4	234.6	228.5	222.4	216.6
-90°	1.0	0.7	0.7	0.7	0.7	0.7	1.0	1.3	1.3	1.3	1.7



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	195.7	191.8	187.8	184.8	181.8	178.2	174.5	168.9	163.2	157.3	151.3
87.5°	2.7	2.6	2.6	2.7	2.7	3.0	3.2	3.2	3.3	3.7	4.0
85°	3.2	3.2	3.2	3.4	3.7	3.7	3.7	3.7	3.7	4.0	4.3
82.5°	3.3	3.3	3.3	3.7	4.0	4.0	4.0	4.1	4.2	4.4	4.6
80°	3.3	3.6	3.8	3.9	4.0	4.1	4.2	4.4	4.6	4.6	4.7
77.5°	3.4	3.7	4.0	4.2	4.3	4.5	4.7	4.6	4.7	4.9	5.1
75°	4.2	4.2	4.4	4.7	5.0	5.1	5.3	5.5	5.5	5.5	5.6
72.5°	6.9	6.6	6.4	6.5	6.3	6.3	6.4	6.5	6.5	6.3	6.1
70°	10.5	10.5	10.7	10.7	10.5	10.2	9.5	8.8	8.1	8.0	7.5
67.5°	14.3	14.2	14.8	15.8	15.6	15.0	14.0	12.9	12.0	11.2	9.6
65°	17.2	17.4	17.3	17.1	17.5	17.9	18.2	17.3	17.4	15.9	12.7
62.5°	16.8	17.6	16.6	16.0	16.8	18.5	21.4	22.9	24.1	22.7	19.0
60°	13.2	14.3	13.9	14.1	15.3	19.1	24.5	28.6	32.1	29.8	25.5
57.5°	8.8	9.1	10.1	12.1	14.2	20.5	27.4	33.8	38.3	35.5	31.9
55°	9.8	10.7	11.0	12.3	13.9	22.3	30.0	36.6	41.4	40.1	36.3
52.5°	21.4	24.1	23.9	21.2	22.8	28.7	33.2	40.7	44.9	44.8	41.7
50°	74.3	77.1	69.1	57.6	58.5	48.8	54.4	55.8	54.3	54.7	50.0
47.5°	203.1	188.9	170.4	156.2	139.1	119.8	119.6	97.6	94.7	76.4	73.1
45°	399.4	358.1	323.9	295.7	266.3	246.2	226.9	215.2	170.5	153.5	110.4
42.5°	1028.4	713.8	537.9	461.9	398.0	368.5	347.3	333.0	312.8	259.9	217.8
40°	2054.2	1595.5	1177.9	739.3	559.3	478.3	447.5	413.9	410.5	383.1	327.8
37.5°	3064.5	2592.1	2068.7	1523.5	1013.9	644.7	571.3	520.9	483.8	473.7	433.8
35°	4001.1	3511.7	3026.9	2447.3	1784.6	1239.2	751.7	662.5	591.1	549.1	525.2
32.5°	5050.1	4535.9	3924.1	3357.7	2763.7	2062.2	1425.0	882.8	724.9	652.3	596.1
30°	6725.4	5866.6	5043.5	4317.1	3722.9	3086.9	2287.1	1475.9	934.7	759.2	671.2
27.5°	9361.4	7719.5	6624.1	5665.0	4872.5	4201.9	3394.1	2314.8	1288.2	926.6	769.4
25°	12969.2	11124.7	9252.6	7880.1	6730.2	5583.9	4728.4	3422.6	2107.1	1125.6	879.0
22.5°	17258.0	14977.4	12866.1	10631.0	8895.0	7381.3	5979.0	4542.9	2961.8	1582.0	1065.2
20°	21058.7	18404.8	16013.1	13535.6	11033.0	8861.6	7034.7	5531.4	3881.9	2303.8	1246.1
17.5°	25774.9	22081.2	19117.3	16450.1	13475.4	10772.6	8458.9	6587.6	4741.2	2906.4	1394.4
15°	30985.3	26235.6	22264.1	18889.7	15772.8	12716.7	10014.9	7717.0	5700.7	3543.6	1831.9
12.5°	36582.5	30815.2	25490.4	21281.5	17575.4	14238.1	11072.8	8698.8	6591.6	4309.8	2313.9
10°	40347.0	34386.2	28662.1	23825.9	19515.0	15488.7	11977.2	9304.8	7170.6	4980.6	2785.8
7.5°	44277.5	37222.9	31005.8	25692.4	21203.8	16998.0	12871.6	9773.0	7616.0	5481.4	3152.4
5°	46630.3	39189.3	32722.3	27158.0	22416.5	18211.0	13930.1	10190.0	7983.9	5857.2	3432.6
2.5°	48484.6	40408.6	33656.5	27937.8	23244.9	18938.7	14805.3	10600.2	8181.9	6033.7	3510.5
0°	50098.2	41287.0	34397.5	28535.1	23766.2	19404.7	15250.9	10999.6	8241.9	6077.4	3496.9
-2.5°	50029.9	40997.0	33970.7	28241.1	23537.7	19256.5	15305.2	11513.1	8662.0	6114.3	3502.1
-5°	50081.1	41011.5	33692.7	28040.6	23334.3	19061.4	15147.0	11663.3	8883.1	6064.4	3422.5
-7.5°	48741.2	40282.1	33184.1	27620.8	22983.7	18702.9	14765.6	11474.5	8893.2	6067.2	3293.0
-10°	46103.4	38538.2	31975.7	26729.2	22290.2	18075.4	14206.7	11163.4	8652.5	5826.3	3070.7
-12.5°	43198.1	36454.6	30340.5	25387.0	21190.3	17161.3	13499.9	10718.8	8214.2	5374.5	2853.1
-15°	39374.1	34017.5	28922.1	24024.8	19805.6	16034.1	12688.5	10159.6	7658.2	4788.0	2515.1
-17.5°	35618.1	31027.4	26599.9	22429.7	18318.9	14800.0	11918.5	9423.3	6867.1	4118.1	2071.8
-20°	31953.7	28010.6	24174.3	20299.3	16646.7	13404.3	10950.8	8529.4	5878.0	3461.5	1999.8



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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°	28374.6	25216.4	21802.1	18081.9	14901.5	12196.4	9810.3	7422.7	4748.0	2689.5	1904.1
-25°	24820.0	22198.8	19103.5	16247.2	13348.0	10862.1	8567.9	6052.9	3781.3	2236.2	1776.3
-27.5°	21258.3	18814.4	16591.9	14234.9	11914.5	9464.1	7042.1	4625.7	2707.2	2030.4	1705.4
-30°	17795.7	15924.7	14071.1	12202.5	10211.9	7893.9	5323.3	3394.0	2242.4	1835.7	1613.8
-32.5°	14787.8	13332.7	11800.7	10165.3	8214.7	6072.1	3927.6	2448.4	1975.9	1726.7	1557.6
-35°	12187.4	10868.1	9579.3	7876.0	5892.9	4114.3	2598.6	2115.5	1813.4	1621.5	1507.3
-37.5°	9765.4	8449.7	6967.7	5390.1	3780.1	2590.3	2186.9	1890.8	1675.6	1555.2	1440.1
-40°	7068.7	5713.2	4409.4	3082.7	2497.7	2159.2	1929.1	1735.8	1606.7	1481.2	1367.6
-42.5°	4295.1	3182.4	2543.9	2316.8	2086.4	1917.8	1759.9	1649.8	1531.2	1411.2	1258.8
-45°	2446.0	2252.7	2079.7	1982.6	1857.3	1760.8	1672.3	1562.1	1452.4	1297.0	1135.3
-47.5°	1996.3	1915.9	1839.9	1792.7	1733.7	1661.6	1567.1	1462.2	1312.2	1159.2	1023.5
-50°	1770.8	1741.8	1712.3	1678.4	1619.3	1547.4	1432.7	1299.3	1163.2	1037.9	912.4
-52.5°	1661.6	1625.2	1588.6	1551.2	1474.3	1372.4	1258.9	1141.8	1023.8	914.3	804.3
-55°	1530.0	1473.3	1414.5	1349.8	1278.1	1189.9	1095.1	990.5	890.3	790.3	706.4
-57.5°	1314.1	1256.1	1206.6	1150.6	1088.5	1016.1	939.6	849.3	764.6	687.2	614.3
-60°	1105.5	1051.9	1011.3	965.8	915.3	855.2	794.3	724.5	649.6	587.7	528.2
-62.5°	913.4	868.4	834.4	800.1	762.0	717.5	664.3	611.0	551.3	494.9	453.2
-65°	744.6	709.7	680.8	655.9	627.6	596.3	552.0	511.4	468.1	425.4	388.7
-67.5°	602.5	576.2	553.2	532.5	515.1	495.4	465.3	432.3	400.7	371.3	346.5
-70°	492.4	474.5	458.6	443.5	430.5	418.6	399.8	377.4	352.2	327.8	306.9
-72.5°	414.2	402.2	391.3	382.2	372.2	362.3	348.0	329.3	309.2	288.4	271.0
-75°	357.9	348.4	339.1	331.2	322.5	313.3	303.1	289.5	275.6	261.1	247.6
-77.5°	314.1	306.2	298.5	292.8	286.9	280.8	272.9	261.3	250.5	239.3	228.6
-80°	281.4	274.7	268.2	264.2	259.9	254.7	248.6	239.6	230.6	221.0	211.6
-82.5°	256.3	250.3	244.4	240.6	236.5	231.5	226.2	218.6	210.9	202.6	194.3
-85°	232.0	227.2	222.4	218.7	214.8	210.1	205.2	198.6	192.0	184.4	176.7
-87.5°	210.7	206.5	202.2	199.2	196.1	191.6	187.0	181.2	175.4	168.7	162.0
-90°	2.0	2.0	2.0	2.4	2.7	2.7	2.7	3.0	3.3	3.7	4.0



REPORT NUMBER: P701430 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	145.7	140.0	134.7	129.4	125.1	120.8	116.2	111.5	103.9	96.2	85.6
87.5°	4.2	4.4	4.7	5.0	5.0	5.0	5.3	5.6	5.7	5.7	6.0
85°	4.5	4.8	5.0	5.3	5.3	5.3	5.6	5.9	6.1	6.2	6.4
82.5°	5.0	5.3	5.2	5.3	5.7	6.0	6.0	6.2	6.5	6.7	6.8
80°	5.0	5.3	5.5	5.6	6.1	6.6	6.5	6.5	6.9	7.1	7.3
77.5°	5.3	5.5	5.7	6.0	6.3	6.6	6.7	6.8	7.3	7.6	7.7
75°	5.8	5.9	5.9	6.2	6.5	6.7	6.9	7.2	7.7	8.1	8.1
72.5°	6.3	6.3	6.1	6.3	6.8	7.1	7.3	7.5	8.0	8.4	8.5
70°	7.1	6.7	6.5	6.8	7.2	7.6	7.9	8.1	8.3	8.8	9.0
67.5°	8.0	7.6	7.1	7.3	7.7	8.3	8.6	8.9	9.0	9.2	9.5
65°	11.0	9.6	8.0	8.4	8.5	9.1	9.5	9.8	9.8	10.1	10.1
62.5°	15.4	13.0	11.5	10.2	10.0	10.8	10.7	11.5	10.9	11.1	11.0
60°	21.1	17.3	15.6	14.1	13.2	13.2	13.5	13.3	13.1	12.1	12.0
57.5°	26.3	21.4	20.8	18.8	18.3	17.2	17.3	17.0	15.9	14.9	13.1
55°	31.1	26.8	26.9	25.4	24.9	22.9	22.7	21.8	19.8	18.5	14.5
52.5°	36.1	34.5	34.0	34.5	34.0	30.5	30.1	27.3	25.7	22.5	18.2
50°	43.8	45.2	43.6	46.2	44.7	42.5	38.3	35.3	32.1	27.3	22.3
47.5°	63.5	64.6	59.6	61.6	59.3	56.1	50.4	44.2	38.8	33.5	26.5
45°	110.3	94.9	88.9	83.2	78.1	73.8	64.7	53.7	47.5	39.9	30.7
42.5°	174.6	153.6	136.9	108.3	106.2	94.5	80.8	67.9	56.5	46.4	35.9
40°	275.4	236.2	199.9	168.2	141.2	117.3	102.2	83.8	65.8	53.7	41.7
37.5°	382.6	332.9	285.3	236.6	187.6	154.3	125.8	100.6	76.9	62.1	47.7
35°	478.0	433.8	368.1	311.4	255.1	192.9	151.2	120.0	92.1	70.8	53.7
32.5°	560.0	517.6	446.2	383.1	310.0	232.6	183.1	142.0	107.5	79.6	60.1
30°	625.9	577.7	517.7	440.1	355.6	277.4	216.5	163.6	123.2	88.7	66.8
27.5°	690.1	635.6	580.9	492.2	398.1	315.9	244.3	184.8	139.0	98.9	74.1
25°	767.1	696.0	635.8	549.0	439.7	346.9	269.2	205.5	156.0	110.6	81.2
22.5°	863.1	755.4	691.5	608.7	487.3	377.5	293.5	227.4	170.7	121.7	87.9
20°	946.9	808.1	744.9	664.2	538.9	416.6	318.6	245.8	184.5	132.1	94.3
17.5°	1035.4	863.3	779.1	703.6	589.2	456.1	344.9	263.1	197.6	141.8	100.4
15°	1154.2	922.9	810.4	737.6	632.1	493.9	370.6	279.5	209.7	150.8	106.3
12.5°	1251.7	978.4	841.3	764.3	665.5	528.3	395.2	294.9	220.9	159.8	112.1
10°	1345.7	1037.7	875.0	789.6	693.5	559.1	418.4	311.2	234.0	168.8	117.6
7.5°	1449.2	1093.5	907.4	813.6	717.2	584.8	442.3	330.7	246.8	177.1	122.7
5°	1532.9	1143.1	940.8	840.6	740.0	604.5	463.9	349.0	258.7	184.6	127.3
2.5°	1557.0	1184.6	973.3	866.0	759.3	620.0	482.8	365.8	269.3	191.3	131.6
0°	1563.3	1218.3	1002.6	888.5	775.0	631.7	499.0	380.9	278.7	197.1	135.4
-2.5°	1596.4	1245.5	1028.8	920.9	803.1	646.8	508.2	388.7	286.6	203.8	140.9
-5°	1614.8	1264.6	1052.1	949.6	826.1	658.1	514.6	394.4	293.0	209.6	145.9
-7.5°	1625.2	1278.5	1073.2	973.4	843.0	665.3	518.2	398.2	297.8	214.2	150.3
-10°	1620.2	1285.2	1091.3	986.8	851.0	672.1	520.1	399.9	301.1	217.8	154.2
-12.5°	1627.6	1286.7	1105.7	996.8	853.8	678.3	526.4	402.7	302.8	220.2	157.4
-15°	1627.8	1302.4	1129.1	1004.9	852.2	680.0	528.8	404.2	303.3	221.5	160.0
-17.5°	1590.9	1303.7	1150.6	1016.8	847.4	676.9	527.2	402.5	302.0	221.8	162.3
-20°	1580.0	1314.5	1162.9	1022.6	836.8	669.9	521.4	397.5	298.9	221.0	164.2



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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°	1565.2	1338.1	1177.0	1009.8	821.6	659.0	513.1	389.5	294.0	219.0	165.5
-25°	1519.3	1353.3	1183.6	994.9	805.4	647.0	503.2	382.6	287.2	215.9	166.2
-27.5°	1492.3	1346.0	1179.6	970.2	788.0	629.9	492.8	377.5	282.6	211.7	166.3
-30°	1475.9	1323.8	1144.7	938.2	762.5	609.4	479.6	369.5	278.9	209.8	165.8
-32.5°	1437.8	1297.2	1092.0	901.9	734.1	585.4	463.4	358.5	273.3	209.7	165.4
-35°	1380.5	1230.3	1029.6	855.9	702.5	564.1	445.2	344.4	265.8	208.5	164.8
-37.5°	1313.8	1136.6	972.7	807.3	661.8	538.0	426.7	331.6	256.3	206.3	163.8
-40°	1209.3	1044.9	896.1	756.0	621.5	505.4	405.0	319.2	250.6	203.0	162.1
-42.5°	1100.3	954.4	820.7	694.9	578.2	474.5	381.2	304.8	245.9	199.8	159.7
-45°	996.4	863.3	744.3	636.1	532.2	441.1	362.1	289.6	239.9	196.3	157.4
-47.5°	892.0	778.3	672.2	574.2	491.8	407.8	338.9	281.1	232.5	191.9	155.6
-50°	796.6	695.3	602.0	518.8	444.5	379.9	316.8	271.1	225.9	186.3	153.2
-52.5°	706.0	616.2	536.2	463.6	405.0	349.9	301.6	259.0	218.0	181.6	150.2
-55°	620.5	542.5	473.1	416.0	366.4	326.8	285.0	246.8	209.0	176.9	146.9
-57.5°	542.8	472.0	421.0	373.4	335.2	303.4	268.7	233.5	201.9	171.6	145.3
-60°	468.4	419.2	374.1	339.3	308.5	280.7	252.3	220.8	194.9	166.3	142.9
-62.5°	409.7	369.5	339.0	309.4	282.8	259.0	235.8	210.7	186.8	162.9	140.1
-65°	361.4	333.4	305.5	281.7	258.3	238.6	222.6	200.0	180.5	159.0	136.9
-67.5°	322.0	298.8	275.8	254.3	237.9	223.4	208.4	191.6	174.5	154.7	132.9
-70°	286.6	265.9	249.2	235.1	221.5	208.7	198.1	184.1	168.1	149.5	128.7
-72.5°	257.4	243.7	229.9	217.1	207.7	198.1	188.3	176.2	160.9	143.9	124.1
-75°	235.3	224.6	214.3	204.7	196.0	187.2	178.3	167.7	153.4	137.9	118.6
-77.5°	219.2	209.9	200.8	191.9	184.0	176.0	168.1	159.0	145.3	130.7	112.8
-80°	203.2	194.8	186.7	178.7	171.7	164.5	157.1	148.8	136.1	123.2	106.6
-82.5°	186.9	179.5	172.2	164.8	158.3	151.6	145.0	138.0	126.7	115.3	100.8
-85°	170.2	163.6	156.9	150.2	144.4	138.5	133.5	128.0	118.6	109.1	95.9
-87.5°	156.3	150.6	144.9	139.2	134.5	129.7	124.8	119.8	111.3	102.7	90.8
-90°	4.0	4.0	4.3	4.6	4.6	4.6	5.0	5.3	5.3	5.3	5.7



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	75.0	62.0	49.1	35.1	21.2	14.2	7.3
87.5°	6.3	6.3	6.2	6.2	6.2	6.8	7.3
85°	6.7	6.6	6.5	6.4	6.4	6.9	7.3
82.5°	7.0	6.8	6.7	6.6	6.5	7.1	7.3
80°	7.3	7.1	6.9	6.9	6.7	7.2	7.3
77.5°	7.7	7.5	7.1	7.1	6.9	7.4	7.3
75°	8.1	7.9	7.4	7.3	7.1	7.5	7.3
72.5°	8.5	8.4	7.9	7.5	7.3	7.7	7.3
70°	8.9	8.8	8.4	7.8	7.6	7.8	7.3
67.5°	9.5	9.3	8.9	8.2	7.8	8.0	7.3
65°	10.1	9.9	9.3	8.6	8.0	8.2	7.3
62.5°	10.7	10.4	9.8	9.0	8.3	8.3	7.3
60°	11.3	11.0	10.3	9.3	8.5	8.5	7.3
57.5°	12.6	11.5	11.0	9.7	8.9	8.6	7.3
55°	14.0	12.1	11.7	10.1	9.4	8.8	7.3
52.5°	15.6	12.9	12.5	10.5	9.9	9.0	7.3
50°	17.4	14.7	13.3	10.9	10.4	9.1	7.3
47.5°	19.5	16.6	14.2	11.3	10.9	9.3	7.3
45°	23.1	18.7	15.1	12.0	11.5	9.4	7.3
42.5°	26.8	20.8	16.1	12.8	12.1	9.6	7.3
40°	30.7	23.0	17.5	13.9	12.7	9.8	7.3
37.5°	35.0	25.4	19.3	15.2	13.3	9.9	7.3
35°	39.2	28.4	21.1	16.6	13.9	10.1	7.3
32.5°	43.8	31.8	22.8	18.0	14.6	10.2	7.3
30°	49.1	35.2	24.6	19.4	15.3	10.4	7.3
27.5°	54.3	38.5	27.1	20.8	16.0	10.5	7.3
25°	59.4	41.7	29.5	22.2	16.7	10.7	7.3
22.5°	64.4	45.1	31.9	23.7	17.4	10.8	7.3
20°	69.2	48.7	34.3	25.1	18.1	11.0	7.3
17.5°	73.9	52.1	36.6	26.6	18.8	11.1	7.3
15°	78.6	55.4	38.8	28.0	19.5	11.2	7.3
12.5°	82.9	58.6	41.0	29.4	20.2	11.4	7.3
10°	87.0	61.6	43.0	30.8	20.8	11.5	7.3
7.5°	90.7	64.4	45.0	32.1	21.5	11.6	7.3
5°	94.2	67.0	46.9	33.4	22.1	11.7	7.3
2.5°	97.4	69.5	48.7	34.6	22.7	11.8	7.3
0°	100.2	71.7	50.4	35.8	23.2	11.9	7.3
-2.5°	104.5	75.0	52.7	37.4	24.2	12.4	7.3
-5°	108.4	78.0	55.0	38.9	25.1	12.8	7.3
-7.5°	111.9	80.8	57.0	40.3	26.0	13.2	7.3
-10°	115.1	83.4	59.0	41.6	26.9	13.7	7.3
-12.5°	117.8	85.7	60.8	42.9	27.7	14.1	7.3
-15°	120.1	87.7	62.4	44.1	28.4	14.5	7.3
-17.5°	122.0	89.4	63.9	45.1	29.1	14.8	7.3
-20°	123.7	90.8	65.2	46.1	29.7	15.2	7.3



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	125.4	91.8	66.3	46.9	30.3	15.5	7.3
-25°	126.6	93.1	67.2	47.7	30.8	15.8	7.3
-27.5°	127.3	94.3	68.0	48.3	31.2	16.1	7.3
-30°	127.6	95.2	68.6	48.8	31.5	16.4	7.3
-32.5°	127.3	95.8	69.7	49.2	31.8	16.6	7.3
-35°	127.3	96.1	70.7	49.5	32.0	16.8	7.3
-37.5°	127.3	96.4	71.5	49.7	32.2	17.0	7.3
-40°	126.9	97.2	72.1	49.8	32.3	17.1	7.3
-42.5°	126.2	97.7	72.6	49.9	32.3	17.2	7.3
-45°	125.1	97.9	73.0	50.2	32.2	17.3	7.3
-47.5°	123.6	97.9	73.1	50.3	32.1	17.4	7.3
-50°	123.0	97.7	73.0	50.3	31.9	17.4	7.3
-52.5°	122.3	97.2	72.7	50.2	31.6	17.4	7.3
-55°	121.4	96.3	72.1	50.0	31.2	17.4	7.3
-57.5°	120.0	95.2	71.3	49.7	30.8	17.3	7.3
-60°	118.3	93.7	70.3	49.1	30.3	17.2	7.3
-62.5°	116.1	92.0	69.3	48.5	29.9	17.1	7.3
-65°	113.6	90.0	68.1	47.7	29.5	17.0	7.3
-67.5°	110.7	87.9	66.7	46.8	28.9	16.8	7.3
-70°	107.6	85.5	65.1	45.8	28.3	16.6	7.3
-72.5°	103.8	82.8	63.4	44.8	27.6	16.4	7.3
-75°	99.6	79.9	61.5	43.7	26.8	16.1	7.3
-77.5°	95.1	76.7	59.7	42.5	26.0	15.9	7.3
-80°	90.3	73.9	57.8	41.2	25.1	15.6	7.3
-82.5°	86.6	71.1	55.8	39.8	24.2	15.3	7.3
-85°	82.9	68.2	53.7	38.4	23.2	14.9	7.3
-87.5°	79.0	65.2	51.5	36.8	22.2	14.6	7.3
-90°	6.0	6.0	6.0	6.0	6.0	6.7	7.3

(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

