

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: P701614 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-40-70-3S-VHE-S**

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701614 (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-08-0680R-40-70-3S-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 3S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

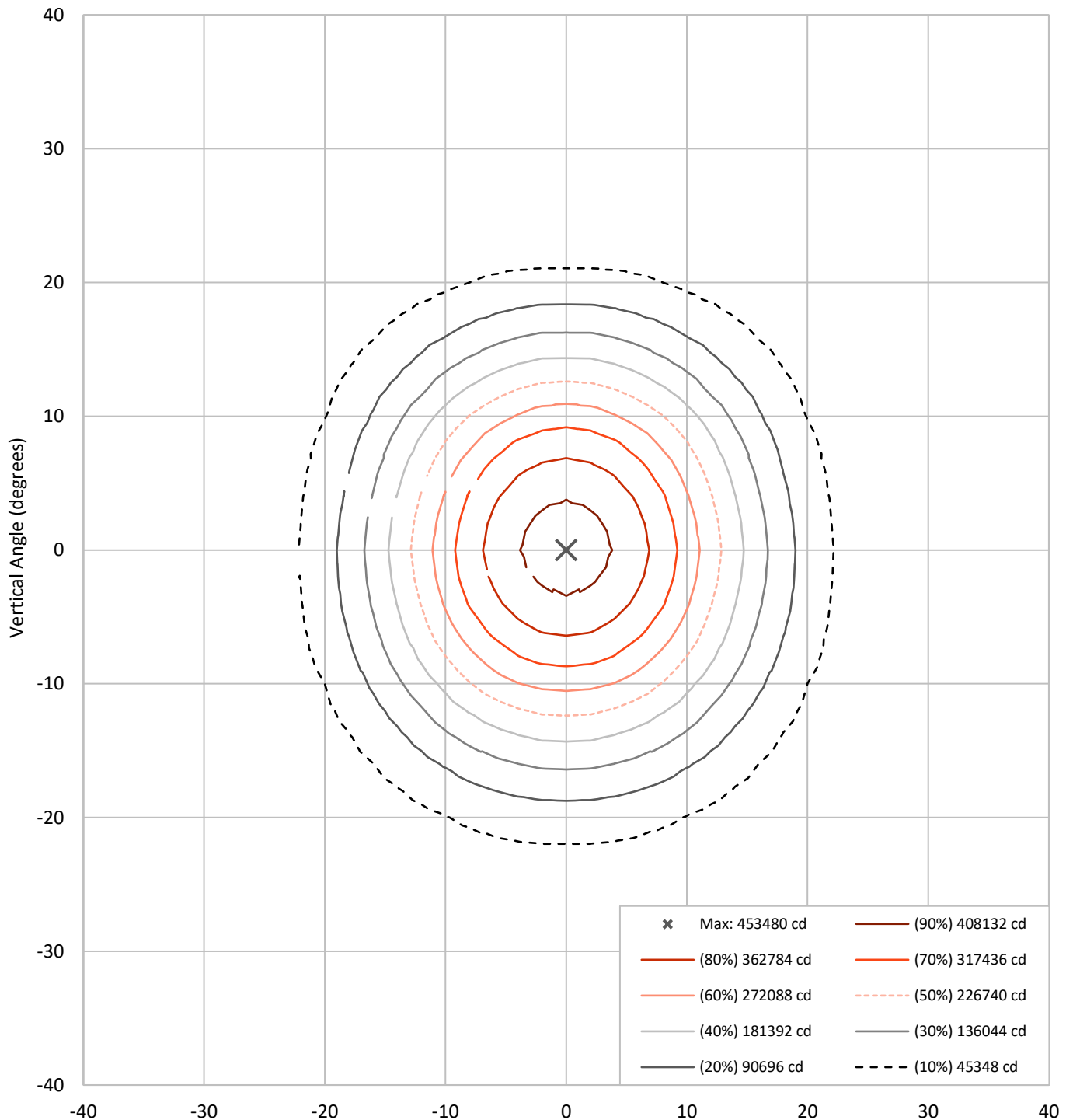
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	101883.5 lumens	Max Intensity:	453480 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	146.1 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:	48746.9 lumens	Field Lumens:	85416.7 lumens
Beam Efficiency:	47.8%	Field Efficiency:	83.8%

Input Watts (W): 697.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Candela Plot





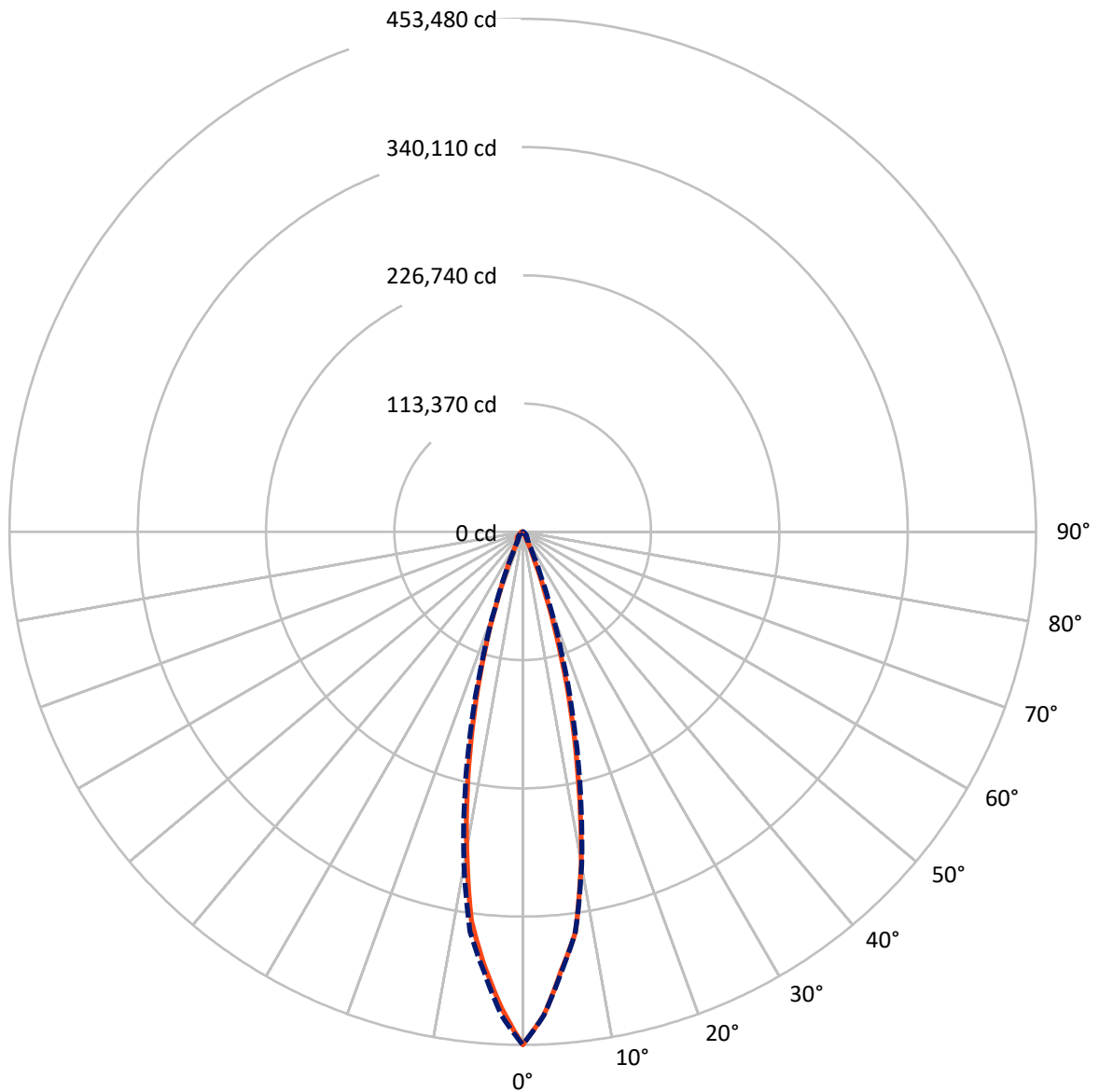
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Lumen Table

90	0.2	0.8	1.6	2.4	2.9	2.4	1.6	0.8	0.2										
80	0.2	0.8	1.6	2.4	2.9	2.4	1.6	0.8	0.2										
70	0.3	0.2	0.3	0.8	0.9	0.8	0.6	0.6	0.6	0.6	0.8	0.9	0.8	0.3	0.2	0.3			
60		0.5	1.0	1.3	1.1	1.1	1.5	1.7	1.7	1.5	1.1	1.1	1.3	1.0	0.5				
50	1.0	1.4	3.4	7.1	13.2	22.5	32.0	36.2	36.2	32.0	22.5	13.2	7.1	3.4	1.4	1.0			
40		3.5	10.8	22.3	42.0	69.6	84.2	98.8	98.8	84.2	69.6	42.0	22.3	10.8	3.5				
30	2.3	5.9	18.2	39.9	89.3	114.9	248.2	542.8	542.8	248.2	114.9	89.3	39.9	18.2	5.9	2.3			
20		7.8	23.9	64.9	128.2	310.0	1867.4	4514.5	4514.5	1867.4	310.0	128.2	64.9	23.9	7.8				
10	3.4	9.4	27.7	82.6	155.3	688.1	4535.5	10330.6	10330.6	4535.5	688.1	155.3	82.6	27.7	9.4	3.4			
0		10.4	30.5	87.4	172.1	709.2	4563.0	10223.3	10223.3	4563.0	709.2	172.1	87.4	30.5	10.4				
-10	3.7	10.5	31.5	84.4	171.4	380.2	1947.1	4556.7	4556.7	1947.1	380.2	171.4	84.4	31.5	10.5	3.7			
-20		9.7	30.0	66.8	154.3	232.9	403.6	767.5	767.5	403.6	232.9	154.3	66.8	30.0	9.7				
-30	3.2	8.3	25.7	53.4	106.6	186.3	230.0	255.2	255.2	230.0	186.3	106.6	53.4	25.7	8.3	3.2			
-40		6.4	19.6	41.4	67.5	99.6	146.0	181.9	181.9	146.0	99.6	67.5	41.4	19.6	6.4				
-50	2.6	4.3	12.7	27.1	45.4	61.8	75.1	83.3	83.3	75.1	61.8	45.4	27.1	12.7	4.3	2.6			
-60		3.0	6.7	14.0	23.6	32.6	41.1	46.3	46.3	41.1	32.6	23.6	14.0	6.7	3.0				
-70	1.9	11.2	25.8	42.1	51.6	42.1	25.8	11.2	1.9							1.9			
-80		11.2	25.8	42.1	51.6	42.1	25.8	11.2	1.9										
-90	1.9	11.2	25.8	42.1	51.6	42.1	25.8	11.2	1.9										

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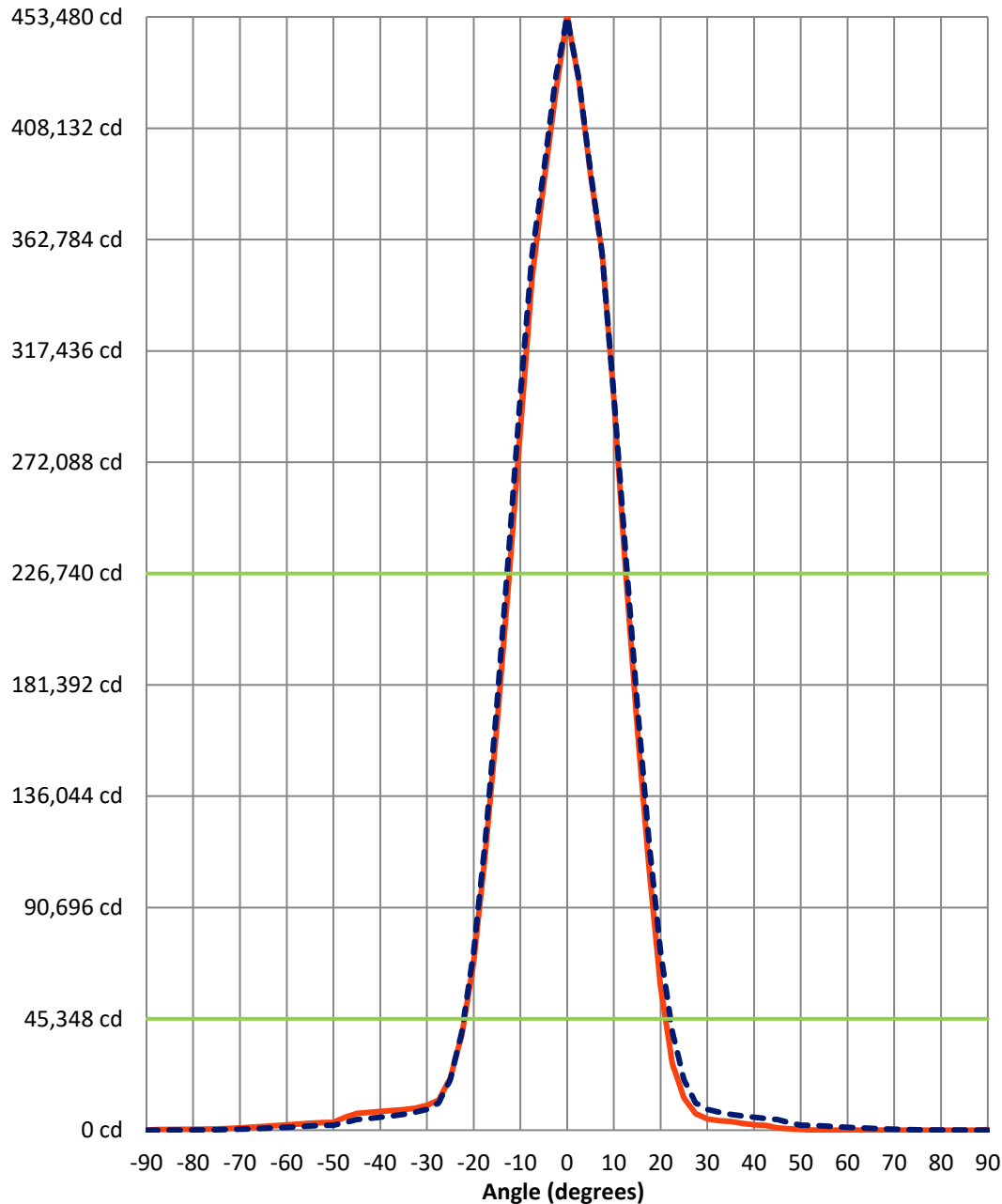
Luminous Intensity Polar Plot



— 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: 48746.9
 Efficiency: 47.8%

Field:
 H Angle: 44.2°
 V Angle: 43°
 Lumens: 85416.7
 Efficiency: 83.8%

Spill:
 Lumens: 16466.8
 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°	3.6	15.1	26.7	43.1	59.5	73.4	87.4	97.7	108.0	116.5	125.0
87.5°	3.6	3.9	3.8	3.9	4.0	4.0	3.9	3.6	3.3	3.1	2.9
85°	3.6	4.2	4.0	4.3	4.5	4.4	4.3	4.1	4.1	3.8	3.4
82.5°	3.6	4.5	4.3	4.6	4.9	4.8	4.6	4.7	4.9	4.5	4.0
80°	3.6	4.8	4.5	4.9	5.3	5.3	5.0	5.3	5.4	5.0	4.6
77.5°	3.6	5.1	4.8	5.2	5.8	5.8	5.7	5.8	5.8	5.5	5.2
75°	3.6	5.4	5.0	5.5	6.2	6.5	6.4	6.4	6.3	6.2	5.8
72.5°	3.6	5.7	5.3	5.8	6.9	7.2	7.1	7.2	7.3	7.0	6.5
70°	3.6	6.0	5.7	6.2	7.6	7.9	7.9	8.4	8.4	7.9	8.1
67.5°	3.6	6.3	6.0	7.0	8.3	8.6	9.4	9.7	9.6	10.1	10.1
65°	3.6	6.6	6.4	7.7	9.0	9.8	10.9	11.1	12.2	12.4	12.3
62.5°	3.6	6.9	6.8	8.4	9.8	11.4	12.6	13.4	14.9	14.9	14.9
60°	3.6	7.3	7.2	9.2	10.6	13.1	14.3	16.3	17.8	18.2	17.8
57.5°	3.6	7.6	8.0	9.9	12.3	14.8	17.0	19.3	21.6	21.9	24.1
55°	3.6	7.9	8.9	10.7	13.9	16.6	19.9	22.5	26.0	27.4	32.6
52.5°	3.6	8.2	9.8	11.5	15.7	18.6	22.8	26.9	30.7	37.7	41.8
50°	3.6	8.6	10.6	12.3	17.4	21.3	25.7	31.7	37.5	48.9	58.8
47.5°	3.6	8.9	11.5	13.3	19.3	24.1	28.9	36.7	48.8	61.1	79.3
45°	3.6	9.3	12.5	14.7	21.1	27.1	33.4	41.9	60.7	81.9	101.9
42.5°	3.6	9.6	13.4	16.1	23.0	30.1	38.0	50.6	73.2	104.4	136.5
40°	3.6	9.9	14.4	17.9	25.2	33.2	43.0	61.8	88.9	128.4	175.5
37.5°	3.6	10.3	15.3	19.9	27.6	36.4	48.5	73.2	110.9	157.0	217.4
35°	3.6	10.6	16.3	21.9	30.1	40.4	54.2	84.9	133.8	193.8	264.2
32.5°	3.6	10.9	17.3	23.9	32.5	44.9	61.2	97.1	157.5	230.8	310.6
30°	3.6	11.3	18.3	25.9	35.0	49.4	71.3	111.2	181.9	268.0	354.0
27.5°	3.6	11.6	19.3	27.9	38.1	53.8	81.2	129.7	206.7	305.0	394.4
25°	3.6	11.9	20.3	29.9	41.3	58.3	91.0	147.2	231.8	339.7	432.0
22.5°	3.6	12.3	21.3	31.9	44.4	62.7	100.5	163.7	254.7	363.2	472.9
20°	3.6	12.6	22.3	33.8	47.4	67.3	109.7	179.0	275.4	385.0	506.0
17.5°	3.6	12.9	23.2	35.7	50.4	71.7	118.3	193.1	294.0	405.0	537.0
15°	3.6	13.2	24.2	37.6	53.3	75.9	126.2	205.9	310.4	423.3	566.4
12.5°	3.6	13.4	25.1	39.4	56.0	79.8	133.5	217.3	327.1	439.6	593.8
10°	3.6	13.7	26.0	41.1	58.7	83.6	140.2	227.5	344.3	463.9	623.7
7.5°	3.6	14.0	26.8	42.8	61.2	87.0	146.2	236.6	360.1	488.5	661.2
5°	3.6	14.2	27.6	44.4	63.6	90.2	151.6	244.4	374.3	511.5	695.9
2.5°	3.6	14.4	28.4	45.9	65.9	93.2	156.3	250.9	386.6	532.5	727.3
0°	3.6	14.6	29.1	47.3	68.0	95.9	160.2	256.2	397.0	551.2	755.1
-2.5°	3.6	15.2	30.4	49.4	71.0	99.9	165.4	264.9	408.7	563.9	768.0
-5°	3.6	15.8	31.6	51.4	73.9	103.7	169.7	272.1	418.0	573.7	776.8
-7.5°	3.6	16.3	32.8	53.3	76.5	107.1	173.3	277.7	424.8	580.8	781.5
-10°	3.6	16.9	33.9	55.0	79.0	110.2	176.0	281.7	429.1	585.2	782.1
-12.5°	3.6	17.3	35.0	56.6	81.3	113.0	177.9	283.7	430.7	586.4	780.4
-15°	3.6	17.8	36.0	58.1	83.4	115.5	178.9	283.9	428.1	582.8	774.4
-17.5°	3.6	18.3	36.8	59.5	85.2	117.6	179.0	281.4	421.2	575.9	762.9
-20°	3.6	18.7	37.7	60.7	86.9	119.3	178.4	276.6	411.7	565.8	745.9



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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	3.6	19.0	38.4	61.7	88.2	120.7	177.0	270.1	399.8	552.3	723.5
-25°	3.6	19.4	39.1	62.6	89.4	121.9	174.7	262.0	385.4	535.4	700.0
-27.5°	3.6	19.7	39.6	63.4	90.3	122.9	171.4	252.1	368.5	520.2	683.2
-30°	3.6	19.9	40.1	63.9	91.0	123.6	167.3	240.5	354.8	503.3	662.9
-32.5°	3.6	20.2	40.5	64.3	91.9	123.9	162.2	233.0	343.1	483.7	638.7
-35°	3.6	20.4	40.8	64.6	92.6	123.8	160.3	226.6	328.4	461.3	610.5
-37.5°	3.6	20.5	41.0	64.7	93.0	123.7	159.8	219.3	310.6	436.3	580.8
-40°	3.6	20.6	41.1	64.6	93.2	123.9	158.9	210.6	289.7	411.9	547.2
-42.5°	3.6	20.7	41.1	64.4	93.2	123.9	157.5	200.3	274.2	382.7	508.4
-45°	3.6	20.7	41.1	64.4	93.1	123.5	155.5	192.5	260.6	350.1	465.6
-47.5°	3.6	20.7	40.9	64.1	92.8	122.8	153.0	189.5	245.1	315.2	425.9
-50°	3.6	20.7	40.7	63.9	92.1	121.9	151.3	185.7	226.8	294.3	382.8
-52.5°	3.6	20.6	40.3	63.6	91.2	120.7	149.4	181.2	216.8	271.9	338.4
-55°	3.6	20.5	39.9	63.2	90.1	118.8	147.0	176.3	210.1	247.9	310.2
-57.5°	3.6	20.3	39.4	62.6	88.7	116.7	144.3	172.9	202.9	235.9	280.7
-60°	3.6	20.1	38.8	61.9	87.0	114.3	141.2	168.8	195.6	226.9	256.1
-62.5°	3.6	19.9	38.2	61.0	85.7	111.6	137.8	164.0	189.8	217.1	243.9
-65°	3.6	19.6	37.5	59.9	84.2	108.7	134.2	158.9	183.4	208.1	230.9
-67.5°	3.6	19.3	36.8	58.7	82.4	105.7	130.2	153.7	176.5	199.4	220.0
-70°	3.6	19.0	35.9	57.4	80.5	102.7	126.0	148.2	169.8	190.3	210.0
-72.5°	3.6	18.6	35.0	56.0	78.3	99.5	121.5	142.3	162.7	181.4	199.6
-75°	3.6	18.2	34.0	54.5	75.9	95.9	116.7	135.9	155.3	172.0	188.5
-77.5°	3.6	17.8	32.9	52.9	73.6	92.2	111.6	129.3	147.1	162.3	177.1
-80°	3.6	17.3	31.8	51.2	71.1	88.6	106.3	122.3	138.6	152.2	165.6
-82.5°	3.6	16.8	30.6	49.3	68.4	85.0	101.7	115.6	129.8	141.9	154.0
-85°	3.6	16.3	29.4	47.3	65.6	81.3	97.1	109.8	122.7	133.0	143.2
-87.5°	3.6	15.7	28.1	45.3	62.6	77.5	92.3	103.8	115.4	124.8	134.2
-90°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.0	2.4	2.4	2.4



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	131.7	138.4	144.5	150.5	156.0	161.5	168.8	176.0	181.5	187.0	192.5
87.5°	3.0	3.0	3.0	3.1	2.8	2.4	2.4	2.4	2.2	2.1	2.2
85°	3.5	3.6	3.6	3.6	3.1	2.8	2.8	2.9	3.0	3.0	2.8
82.5°	4.1	4.2	4.0	3.6	3.5	3.5	3.6	3.6	3.6	3.6	3.3
80°	4.7	4.9	4.4	4.0	4.2	4.3	4.1	3.7	3.6	3.7	3.8
77.5°	5.1	5.0	4.7	4.7	4.9	5.1	5.0	5.0	5.0	4.8	4.8
75°	5.5	5.1	5.2	5.1	5.1	5.7	6.1	6.1	5.9	5.7	5.8
72.5°	6.4	6.4	6.2	5.5	5.6	6.1	6.1	6.1	7.6	10.1	12.1
70°	8.0	7.9	7.4	7.0	6.7	7.2	9.2	12.6	16.3	19.7	23.0
67.5°	9.6	9.4	8.9	8.8	10.1	12.2	14.7	23.2	32.1	35.2	35.8
65°	11.4	11.1	11.2	12.6	14.4	20.4	28.3	38.5	47.1	46.6	43.0
62.5°	13.5	15.1	15.1	18.1	24.1	31.5	40.5	49.3	57.0	53.3	44.4
60°	19.2	20.3	23.1	28.6	34.8	42.1	51.6	54.4	56.3	54.9	43.2
57.5°	26.5	29.6	35.4	40.5	47.9	51.2	51.9	51.4	54.7	52.5	40.6
55°	37.1	42.4	50.2	55.5	59.8	53.5	52.8	56.1	55.7	51.0	39.4
52.5°	52.9	58.6	69.4	73.3	69.9	64.9	63.1	66.2	63.7	57.3	49.7
50°	70.2	83.9	91.0	94.1	87.9	87.2	80.9	84.9	88.3	85.2	95.9
47.5°	96.5	113.0	118.2	123.9	120.9	132.0	126.2	147.2	148.7	209.7	228.0
45°	128.1	150.3	156.4	171.0	187.1	206.5	240.1	249.0	349.4	410.6	482.9
42.5°	166.3	194.2	219.3	227.6	299.7	338.8	389.2	482.6	576.0	652.9	706.7
40°	215.5	243.8	296.8	360.0	436.7	503.3	599.4	707.5	796.5	855.6	883.3
37.5°	269.6	325.0	394.4	496.7	590.0	674.6	797.3	905.6	984.5	1039.1	1046.1
35°	327.7	406.4	520.1	623.8	720.0	834.6	956.5	1080.9	1145.6	1169.2	1269.5
32.5°	395.5	485.7	620.3	732.9	841.4	971.3	1100.9	1208.3	1265.5	1331.9	1671.5
30°	459.6	568.9	702.9	822.6	956.9	1104.9	1228.8	1330.1	1369.6	1718.4	2267.7
27.5°	510.8	641.1	775.6	920.0	1074.2	1243.3	1368.3	1434.1	1660.3	2176.5	2970.6
25°	558.5	698.7	849.1	1029.3	1204.8	1372.4	1499.5	1541.6	2012.1	2887.5	3479.4
22.5°	605.2	755.0	930.1	1145.0	1324.7	1481.2	1587.5	1842.3	2516.6	3625.2	3932.5
20°	651.8	821.4	1018.1	1232.5	1430.7	1576.7	1658.4	2159.4	3129.1	3908.6	4254.3
17.5°	696.8	888.4	1098.9	1306.1	1505.9	1653.9	1759.6	2426.8	3614.2	4162.9	4503.3
15°	740.6	945.5	1161.2	1375.2	1579.0	1721.5	2008.2	2819.2	3915.6	4470.6	4830.0
12.5°	782.6	994.4	1207.2	1435.1	1649.7	1787.3	2266.0	3294.7	4230.0	4773.7	5162.2
10°	822.2	1035.4	1247.2	1489.8	1715.5	1844.5	2508.0	3739.0	4517.8	4989.5	5341.6
7.5°	862.2	1072.5	1283.3	1539.2	1777.5	1896.5	2712.7	3982.1	4630.7	5132.0	5468.1
5°	897.5	1106.7	1326.1	1600.1	1837.6	1944.4	2885.4	4145.6	4666.5	5203.2	5559.2
2.5°	927.6	1135.2	1363.5	1657.0	1891.6	1987.9	3003.1	4270.3	4709.7	5253.8	5672.4
0°	953.0	1158.2	1394.9	1705.7	1937.5	2027.4	3081.1	4337.6	4737.0	5276.0	5798.0
-2.5°	971.5	1188.8	1445.1	1747.0	1975.2	2068.6	3105.7	4366.5	4776.8	5398.5	6079.9
-5°	985.3	1213.3	1487.1	1779.9	2005.9	2106.5	3088.2	4339.5	4824.3	5511.6	6259.1
-7.5°	993.8	1231.0	1519.4	1804.5	2031.5	2149.2	3035.5	4308.7	4973.0	5653.5	6349.2
-10°	997.8	1240.1	1524.4	1813.7	2052.0	2192.0	2945.5	4204.1	5080.5	5707.7	6356.7
-12.5°	1001.3	1242.0	1518.4	1812.0	2064.7	2231.2	2832.3	4078.5	5179.5	5728.0	6310.6
-15°	998.2	1238.1	1504.9	1800.7	2081.0	2280.7	2687.5	3845.5	5223.7	5706.6	6224.2
-17.5°	988.2	1228.6	1486.5	1786.2	2091.4	2326.8	2497.7	3486.4	4986.2	5640.9	6158.3
-20°	971.0	1211.5	1460.0	1758.4	2085.7	2346.7	2492.9	3223.7	4488.7	5511.4	6060.5



REPORT NUMBER: P701614 (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°	948.3	1187.1	1428.4	1721.4	2052.9	2338.5	2527.6	2934.2	3924.9	5321.8	5913.0
-25°	921.6	1156.1	1396.0	1681.6	2007.0	2322.8	2546.7	2667.3	3458.9	4679.1	5678.8
-27.5°	890.9	1119.3	1359.0	1628.5	1947.2	2276.1	2515.7	2674.8	3079.9	3944.3	5322.9
-30°	854.6	1076.8	1311.2	1566.8	1873.9	2187.9	2462.5	2665.1	2783.5	3442.9	4551.2
-32.5°	813.6	1027.8	1256.8	1507.8	1791.3	2093.0	2383.3	2602.4	2764.7	2980.6	3824.8
-35°	774.4	977.9	1196.4	1441.3	1702.6	1986.0	2258.4	2516.9	2720.4	2859.5	3202.7
-37.5°	739.8	923.3	1133.3	1369.0	1620.7	1863.1	2123.5	2390.0	2623.2	2815.5	2937.0
-40°	700.2	864.6	1068.2	1291.0	1515.2	1739.0	1982.3	2236.7	2493.7	2704.8	2890.0
-42.5°	655.8	815.0	997.3	1200.2	1406.1	1617.7	1834.1	2075.1	2317.3	2558.1	2753.4
-45°	606.7	759.7	921.7	1104.1	1290.9	1490.4	1695.6	1903.9	2133.0	2360.2	2573.9
-47.5°	551.3	698.3	852.7	1001.7	1175.2	1358.3	1549.8	1746.3	1942.3	2151.0	2357.4
-50°	493.5	630.0	772.5	908.9	1057.2	1223.8	1399.7	1582.6	1767.6	1942.6	2124.2
-52.5°	439.9	555.5	685.9	816.7	946.9	1088.5	1247.5	1412.7	1583.9	1754.3	1907.9
-55°	382.1	486.0	594.5	717.8	842.2	964.8	1093.9	1243.4	1388.7	1545.5	1696.4
-57.5°	338.9	415.3	510.4	613.0	729.4	847.9	962.2	1074.8	1201.5	1332.6	1465.8
-60°	304.4	358.1	430.8	518.2	609.9	719.3	831.6	935.5	1031.2	1128.8	1249.4
-62.5°	272.5	316.6	367.1	428.0	507.7	589.0	685.6	784.7	877.8	967.1	1056.8
-65°	257.0	280.2	318.4	363.7	409.4	478.7	552.7	628.5	713.8	795.7	879.1
-67.5°	240.8	262.7	283.8	308.6	349.6	390.1	430.1	496.9	563.6	623.9	684.6
-70°	228.2	245.4	264.4	282.9	301.5	325.2	361.7	399.0	435.2	475.1	526.1
-72.5°	215.9	231.3	246.6	261.6	278.4	295.4	312.9	331.1	357.6	388.5	416.3
-75°	203.3	216.7	230.2	243.7	257.5	271.7	286.4	302.5	319.0	335.5	350.3
-77.5°	190.5	203.1	214.6	225.9	237.8	250.4	263.4	276.7	290.2	303.9	315.5
-80°	177.4	189.3	199.4	209.3	219.4	229.8	241.1	252.5	263.8	275.4	285.4
-82.5°	164.0	174.1	183.2	192.1	200.9	209.5	219.2	229.2	239.1	248.9	257.4
-85°	151.1	158.8	166.6	174.4	182.0	189.6	198.3	207.0	215.3	223.5	230.8
-87.5°	141.5	148.6	155.2	161.6	167.8	173.9	181.4	188.8	195.3	201.8	207.8
-90°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	1.8	1.2	1.2



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	197.9	201.6	205.2	208.2	211.2	215.5	219.7	225.8	231.9	239.2	246.4
87.5°	2.2	2.2	2.2	1.7	1.2	1.2	1.2	1.2	1.2	1.8	2.4
85°	2.4	2.4	2.4	2.7	3.1	3.2	3.3	3.4	3.4	3.5	3.6
82.5°	3.0	3.0	3.1	3.4	3.6	3.6	3.6	3.6	3.6	4.2	4.8
80°	4.0	4.1	4.2	4.3	4.4	4.1	3.7	3.6	3.6	4.2	4.9
77.5°	5.0	5.1	4.9	4.7	4.3	3.9	3.6	3.6	3.6	3.7	3.7
75°	6.0	6.1	6.5	6.8	7.3	7.4	7.0	7.1	7.5	7.4	7.0
72.5°	13.4	13.7	13.7	15.3	16.8	17.4	17.8	19.0	20.4	22.3	24.4
70°	26.1	28.7	29.8	29.9	28.7	28.0	27.4	27.3	27.7	29.0	30.7
67.5°	37.6	38.7	38.2	37.7	35.5	32.8	29.7	28.1	28.7	30.1	32.1
65°	42.5	39.2	36.7	35.8	33.8	30.4	25.8	22.6	21.9	21.4	21.2
62.5°	38.2	32.2	29.4	27.8	24.8	22.0	17.7	14.4	13.1	12.3	12.1
60°	33.3	25.9	21.3	19.2	16.0	12.4	10.2	7.8	7.1	6.6	6.7
57.5°	29.0	21.4	16.1	15.2	12.3	9.7	7.8	5.8	5.2	4.9	5.1
55°	29.8	26.0	21.8	19.5	16.2	14.8	13.0	11.8	10.8	11.0	11.7
52.5°	42.1	45.3	39.8	38.4	47.8	47.9	39.6	52.5	60.3	66.3	68.0
50°	108.7	107.9	143.5	137.5	170.2	197.0	198.1	214.4	245.5	266.7	278.2
47.5°	288.7	321.1	362.5	405.9	439.9	482.3	525.2	557.3	565.2	566.0	571.6
45°	543.4	589.7	652.0	697.6	761.9	801.5	834.5	864.3	933.0	996.3	1070.1
42.5°	758.9	809.5	874.0	966.8	1034.4	1215.2	1491.7	1559.7	1569.4	1625.7	1707.6
40°	929.0	995.3	1138.7	1341.9	1775.0	2163.4	2233.5	2291.9	2317.5	2286.3	2342.0
37.5°	1134.9	1290.3	1613.0	2168.8	2374.1	2479.9	2554.3	2599.0	2653.3	2703.5	2730.7
35°	1476.7	1909.7	2192.5	2489.4	2623.7	2677.3	2731.9	2786.9	2829.6	2885.2	2929.6
32.5°	2178.4	2660.4	2688.9	2762.2	2832.2	2901.9	2952.9	3005.3	3050.8	3122.8	3273.8
30°	2885.3	2990.5	3016.2	3022.8	3086.6	3170.1	3214.5	3320.3	3463.2	3627.1	3975.9
27.5°	3261.6	3333.9	3349.0	3356.2	3385.9	3484.7	3667.9	3812.4	4155.4	4571.7	5468.1
25°	3719.8	3771.3	3825.8	3823.5	3868.7	4043.7	4401.9	4706.9	5865.7	6950.1	9286.3
22.5°	4157.0	4312.5	4390.0	4493.8	4647.3	4965.8	5594.2	7359.3	10310.6	14076.9	18765.5
20°	4460.8	4670.1	4878.6	5168.3	5539.1	6200.1	8163.2	13445.2	19753.1	28906.1	36583.1
17.5°	4767.3	5003.6	5372.4	5819.4	6442.1	8661.7	14417.0	23385.6	36339.4	52588.9	66846.3
15°	5166.9	5447.4	5941.2	6579.3	8319.4	13057.2	22658.1	38977.3	58669.6	81511.9	105473.2
12.5°	5439.0	5825.5	6412.6	7236.7	10092.8	18966.3	34424.6	56796.4	83899.7	112681.6	150876.5
10°	5640.1	6102.3	6899.6	8608.3	13787.3	25488.8	44064.7	71984.5	109142.2	153007.9	196676.0
7.5°	5809.0	6431.5	7432.4	9585.5	16974.8	31727.5	55406.1	89341.4	133305.2	186161.2	236943.4
5°	5960.8	6786.0	7945.1	10638.8	19830.9	36244.6	62948.4	102303.7	153214.3	210941.8	267008.9
2.5°	6161.5	7117.9	8277.7	10928.7	20974.2	38747.4	68924.6	112770.6	167429.1	228154.6	289155.8
0°	6440.3	7333.8	8481.0	11114.1	20618.5	40315.6	72587.3	118023.5	173658.6	235384.2	299364.3
-2.5°	6659.5	7458.1	8599.4	10964.7	20444.7	39578.1	70934.3	114961.5	167559.8	227204.7	291025.6
-5°	6801.1	7547.3	8651.3	11020.5	20005.9	36759.2	66052.0	106938.7	155140.4	208981.3	267996.5
-7.5°	6884.0	7580.0	8597.5	10669.1	18013.3	32919.0	57361.7	92150.7	135391.6	185213.0	233985.1
-10°	6933.6	7558.8	8484.9	10172.0	15151.8	26752.6	45285.8	74770.3	112236.1	152381.6	192275.4
-12.5°	6952.3	7514.2	8326.1	9460.0	12148.2	20944.0	36049.2	56974.4	84785.5	117717.1	152870.1
-15°	6915.7	7449.3	8172.8	9154.5	10942.9	15700.7	25154.5	39386.1	60115.6	85258.8	110732.4
-17.5°	6780.0	7382.3	7945.5	8699.3	9752.0	11995.7	17749.5	26884.3	39525.6	56145.0	70841.8
-20°	6600.0	7255.9	7738.1	8404.3	9230.9	10257.8	12103.1	17678.0	24766.3	34387.9	43980.1



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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°	6439.7	7039.9	7646.2	8103.4	8750.8	9425.8	10259.1	11853.9	15415.7	20219.3	26300.1
-25°	6291.9	6841.2	7463.5	7958.0	8323.1	8800.3	9322.3	9881.0	11090.9	12225.3	15158.8
-27.5°	6083.7	6652.9	7192.5	7720.3	8072.2	8288.7	8644.5	8991.7	9498.4	9948.9	10810.5
-30°	5841.7	6398.4	6911.9	7391.4	7752.0	7979.7	8156.2	8394.9	8663.1	8935.9	9306.0
-32.5°	4978.8	6099.6	6577.5	7010.5	7382.3	7650.1	7836.9	7993.7	8148.5	8323.1	8518.2
-35°	4033.6	5140.5	6219.1	6556.6	6908.1	7262.6	7539.5	7687.5	7822.2	7944.5	8063.9
-37.5°	3279.5	4060.5	5028.5	5948.4	6375.5	6733.5	7066.4	7324.9	7513.7	7628.4	7735.8
-40°	2984.4	3182.2	3926.7	4684.3	5412.8	6074.3	6412.8	6794.9	7105.5	7273.9	7390.7
-42.5°	2913.8	3004.6	3074.1	3554.1	4133.7	4691.4	5308.6	5921.3	6402.1	6722.5	6960.9
-45°	2759.2	2890.0	2993.7	3036.5	3062.7	3469.3	3947.3	4415.1	4955.0	5512.7	6019.0
-47.5°	2540.3	2710.3	2827.4	2919.0	2973.8	2991.0	3024.7	3129.6	3521.6	3933.8	4326.2
-50°	2296.0	2451.8	2592.2	2719.7	2795.5	2857.0	2915.8	2972.3	3020.2	3080.4	3134.8
-52.5°	2050.0	2192.8	2319.0	2430.9	2531.4	2628.4	2721.8	2791.5	2859.7	2932.8	2992.3
-55°	1830.9	1946.7	2052.5	2150.7	2241.4	2323.4	2407.7	2497.8	2591.1	2682.3	2753.1
-57.5°	1596.7	1707.4	1807.6	1890.9	1963.9	2025.0	2102.5	2186.9	2274.6	2355.9	2417.6
-60°	1360.5	1458.4	1550.0	1630.7	1700.0	1756.9	1828.5	1900.0	1978.2	2047.7	2102.6
-62.5°	1136.2	1218.7	1296.5	1367.0	1430.0	1487.8	1551.3	1615.1	1688.7	1753.4	1805.9
-65°	949.7	1013.7	1067.0	1116.9	1155.9	1205.9	1267.3	1326.2	1390.2	1446.3	1493.1
-67.5°	747.7	806.8	855.6	899.3	933.5	969.2	1014.7	1061.6	1111.3	1155.8	1195.0
-70°	571.4	611.0	642.7	675.3	710.4	744.5	780.9	821.0	862.7	899.5	931.8
-72.5°	440.8	460.4	478.9	505.4	529.0	552.7	575.8	604.5	635.4	663.3	688.5
-75°	364.1	376.3	390.4	403.0	413.9	426.6	439.3	458.0	478.3	497.5	515.5
-77.5°	326.7	335.5	342.6	348.4	353.5	361.2	369.4	383.3	398.3	414.5	430.7
-80°	294.9	301.6	307.6	312.8	317.4	323.8	330.3	342.5	355.3	369.0	382.7
-82.5°	265.6	270.9	275.7	280.4	284.9	290.3	295.7	306.4	317.4	328.8	340.1
-85°	238.0	242.5	246.7	250.5	254.2	258.9	263.5	272.6	281.8	291.5	301.2
-87.5°	213.7	217.9	222.0	225.4	228.8	232.8	236.8	244.8	252.9	261.0	269.1
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2



REPORT NUMBER: P701614 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-70-3S-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	247.1	247.7	248.3	248.9	248.3	247.7	247.1	246.4	239.2	231.9	225.8
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	1.8	1.2	1.2
85°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.4	3.4
82.5°	4.2	3.6	4.2	4.9	4.2	3.6	4.2	4.8	4.2	3.6	3.6
80°	4.3	3.6	4.2	4.9	4.2	3.6	4.3	4.9	4.2	3.6	3.6
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.7	3.7	3.6	3.6
75°	6.1	5.0	4.3	3.6	4.3	5.0	6.1	7.0	7.4	7.5	7.1
72.5°	25.0	25.0	25.4	25.5	25.4	25.0	25.0	24.4	22.3	20.4	19.0
70°	31.7	32.5	32.7	32.8	32.7	32.5	31.7	30.7	29.0	27.7	27.3
67.5°	32.3	31.7	31.0	30.3	31.0	31.7	32.3	32.1	30.1	28.7	28.1
65°	20.2	18.9	16.7	14.6	16.7	18.9	20.2	21.2	21.4	21.9	22.6
62.5°	11.7	11.2	11.0	10.9	11.0	11.2	11.7	12.1	12.3	13.1	14.4
60°	6.9	7.3	7.3	7.3	7.3	7.3	6.9	6.7	6.6	7.1	7.8
57.5°	5.3	5.9	6.6	7.3	6.6	5.9	5.3	5.1	4.9	5.2	5.8
55°	12.4	13.8	14.5	14.6	14.5	13.8	12.4	11.7	11.0	10.8	11.8
52.5°	65.6	62.2	59.4	57.1	59.4	62.2	65.6	68.0	66.3	60.3	52.5
50°	283.4	290.8	294.2	293.8	294.2	290.8	283.4	278.2	266.7	245.5	214.4
47.5°	583.7	587.8	584.4	575.4	584.4	587.8	583.7	571.6	566.0	565.2	557.3
45°	1160.4	1110.0	1020.8	942.1	1020.8	1110.0	1160.4	1070.1	996.3	933.0	864.3
42.5°	1816.4	1876.6	1921.7	1942.4	1921.7	1876.6	1816.4	1707.6	1625.7	1569.4	1559.7
40°	2279.4	2215.2	2202.2	2211.9	2202.2	2215.2	2279.4	2342.0	2286.3	2317.5	2291.9
37.5°	2737.7	2796.1	2839.4	2769.1	2839.4	2796.1	2737.7	2730.7	2703.5	2653.3	2599.0
35°	3032.8	3240.5	3484.4	3558.2	3484.4	3240.5	3032.8	2929.6	2885.2	2829.6	2786.9
32.5°	3526.5	3745.8	3840.8	3864.2	3840.8	3745.8	3526.5	3273.8	3122.8	3050.8	3005.3
30°	4311.9	4531.1	4570.4	4602.3	4570.4	4531.1	4311.9	3975.9	3627.1	3463.2	3320.3
27.5°	6062.9	6553.0	6669.3	6751.0	6669.3	6553.0	6062.9	5468.1	4571.7	4155.4	3812.4
25°	11130.7	12405.4	13238.0	13157.3	13238.0	12405.4	11130.7	9286.3	6950.1	5865.7	4706.9
22.5°	23463.4	25965.7	27301.0	27277.3	27301.0	25965.7	23463.4	18765.5	14076.9	10310.6	7359.3
20°	47520.3	54924.6	58932.3	58475.8	58932.3	54924.6	47520.3	36583.1	28906.1	19753.1	13445.2
17.5°	82860.3	97161.1	107152.0	107561.3	107152.0	97161.1	82860.3	66846.3	52588.9	36339.4	23385.6
15°	128126.7	149345.6	164324.8	164323.0	164324.8	149345.6	128126.7	105473.2	81511.9	58669.6	38977.3
12.5°	183218.5	208582.1	225720.7	228290.9	225720.7	208582.1	183218.5	150876.5	112681.6	83899.7	56796.4
10°	236092.1	264821.5	290731.3	297865.0	290731.3	264821.5	236092.1	196676.0	153007.9	109142.2	71984.5
7.5°	280845.4	326038.8	349640.1	357073.5	349640.1	326038.8	280845.4	236943.4	186161.2	133305.2	89341.4
5°	324773.5	363892.2	383707.5	389444.1	383707.5	363892.2	324773.5	267008.9	210941.8	153214.3	102303.7
2.5°	347881.0	383788.1	411638.8	427790.6	411638.8	383788.1	347881.0	289155.8	228154.6	167429.1	112770.6
0°	356575.2	390689.6	428040.1	453480.0	428040.1	390689.6	356575.2	299364.3	235384.2	173658.6	118023.5
-2.5°	347879.2	380889.1	408414.0	421814.7	408414.0	380889.1	347879.2	291025.6	227204.7	167559.8	114961.5
-5°	321518.8	360345.9	380386.2	385459.7	380386.2	360345.9	321518.8	267996.5	208981.3	155140.4	106938.7
-7.5°	279417.6	316759.5	341330.1	346864.4	341330.1	316759.5	279417.6	233985.1	185213.0	135391.6	92150.7
-10°	232546.8	264443.0	281019.1	285118.1	281019.1	264443.0	232546.8	192275.4	152381.6	112236.1	74770.3
-12.5°	180693.9	204085.2	221005.9	223302.6	221005.9	204085.2	180693.9	152870.1	117717.1	84785.5	56974.4
-15°	134498.8	149968.6	163610.1	165177.6	163610.1	149968.6	134498.8	110732.4	85258.8	60115.6	39386.1
-17.5°	90107.2	102914.9	110547.7	112749.9	110547.7	102914.9	90107.2	70841.8	56145.0	39525.6	26884.3
-20°	53989.1	63153.9	68240.6	68431.8	68240.6	63153.9	53989.1	43980.1	34387.9	24766.3	17678.0



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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°	31321.9	36421.2	39112.6	39060.3	39112.6	36421.2	31321.9	26300.1	20219.3	15415.7	11853.9
-25°	18063.9	20296.7	21187.8	21219.4	21187.8	20296.7	18063.9	15158.8	12225.3	11090.9	9881.0
-27.5°	11502.0	12014.6	12220.0	12252.9	12220.0	12014.6	11502.0	10810.5	9948.9	9498.4	8991.7
-30°	9643.5	9943.4	10081.2	10119.9	10081.2	9943.4	9643.5	9306.0	8935.9	8663.1	8394.9
-32.5°	8701.4	8866.6	8978.0	8961.7	8978.0	8866.6	8701.4	8518.2	8323.1	8148.5	7993.7
-35°	8180.5	8282.8	8345.4	8375.4	8345.4	8282.8	8180.5	8063.9	7944.5	7822.2	7687.5
-37.5°	7842.8	7934.2	7993.5	8011.2	7993.5	7934.2	7842.8	7735.8	7628.4	7513.7	7324.9
-40°	7491.3	7567.4	7616.1	7633.6	7616.1	7567.4	7491.3	7390.7	7273.9	7105.5	6794.9
-42.5°	7112.0	7193.7	7232.6	7233.0	7232.6	7193.7	7112.0	6960.9	6722.5	6402.1	5921.3
-45°	6434.4	6686.0	6812.0	6817.8	6812.0	6686.0	6434.4	6019.0	5512.7	4955.0	4415.1
-47.5°	4683.2	4931.8	5131.7	5279.7	5131.7	4931.8	4683.2	4326.2	3933.8	3521.6	3129.6
-50°	3182.3	3198.7	3199.8	3185.5	3199.8	3198.7	3182.3	3134.8	3080.4	3020.2	2972.3
-52.5°	3038.7	3055.7	3068.2	3075.1	3068.2	3055.7	3038.7	2992.3	2932.8	2859.7	2791.5
-55°	2805.5	2826.9	2835.7	2832.3	2835.7	2826.9	2805.5	2753.1	2682.3	2591.1	2497.8
-57.5°	2459.0	2473.1	2479.7	2477.8	2479.7	2473.1	2459.0	2417.6	2355.9	2274.6	2186.9
-60°	2136.3	2146.7	2152.8	2152.4	2152.8	2146.7	2136.3	2102.6	2047.7	1978.2	1900.0
-62.5°	1835.4	1844.7	1851.6	1852.6	1851.6	1844.7	1835.4	1805.9	1753.4	1688.7	1615.1
-65°	1516.5	1523.6	1528.1	1527.2	1528.1	1523.6	1516.5	1493.1	1446.3	1390.2	1326.2
-67.5°	1212.2	1217.2	1221.4	1221.3	1221.4	1217.2	1212.2	1195.0	1155.8	1111.3	1061.6
-70°	942.1	942.5	944.5	943.3	944.5	942.5	942.1	931.8	899.5	862.7	821.0
-72.5°	694.3	693.7	693.3	690.8	693.3	693.7	694.3	688.5	663.3	635.4	604.5
-75°	517.3	515.5	513.8	511.1	513.8	515.5	517.3	515.5	497.5	478.3	458.0
-77.5°	432.5	432.5	429.6	426.1	429.6	432.5	432.5	430.7	414.5	398.3	383.3
-80°	383.4	383.0	381.7	380.0	381.7	383.0	383.4	382.7	369.0	355.3	342.5
-82.5°	341.3	341.9	341.6	341.1	341.6	341.9	341.3	340.1	328.8	317.4	306.4
-85°	302.3	303.2	302.8	302.3	302.8	303.2	302.3	301.2	291.5	281.8	272.6
-87.5°	269.9	270.6	270.7	270.7	270.7	270.6	269.9	269.1	261.0	252.9	244.8
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	219.7	215.5	211.2	208.2	205.2	201.6	197.9	192.5	187.0	181.5	176.0
87.5°	1.2	1.2	1.2	1.7	2.2	2.2	2.2	2.2	2.1	2.2	2.4
85°	3.3	3.2	3.1	2.7	2.4	2.4	2.4	2.8	3.0	3.0	2.9
82.5°	3.6	3.6	3.6	3.4	3.1	3.0	3.0	3.3	3.6	3.6	3.6
80°	3.7	4.1	4.4	4.3	4.2	4.1	4.0	3.8	3.7	3.6	3.7
77.5°	3.6	3.9	4.3	4.7	4.9	5.1	5.0	4.8	4.8	5.0	5.0
75°	7.0	7.4	7.3	6.8	6.5	6.1	6.0	5.8	5.7	5.9	6.1
72.5°	17.8	17.4	16.8	15.3	13.7	13.7	13.4	12.1	10.1	7.6	6.1
70°	27.4	28.0	28.7	29.9	29.8	28.7	26.1	23.0	19.7	16.3	12.6
67.5°	29.7	32.8	35.5	37.7	38.2	38.7	37.6	35.8	35.2	32.1	23.2
65°	25.8	30.4	33.8	35.8	36.7	39.2	42.5	43.0	46.6	47.1	38.5
62.5°	17.7	22.0	24.8	27.8	29.4	32.2	38.2	44.4	53.3	57.0	49.3
60°	10.2	12.4	16.0	19.2	21.3	25.9	33.3	43.2	54.9	56.3	54.4
57.5°	7.8	9.7	12.3	15.2	16.1	21.4	29.0	40.6	52.5	54.7	51.4
55°	13.0	14.8	16.2	19.5	21.8	26.0	29.8	39.4	51.0	55.7	56.1
52.5°	39.6	47.9	47.8	38.4	39.8	45.3	42.1	49.7	57.3	63.7	66.2
50°	198.1	197.0	170.2	137.5	143.5	107.9	108.7	95.9	85.2	88.3	84.9
47.5°	525.2	482.3	439.9	405.9	362.5	321.1	288.7	228.0	209.7	148.7	147.2
45°	834.5	801.5	761.9	697.6	652.0	589.7	543.4	482.9	410.6	349.4	249.0
42.5°	1491.7	1215.2	1034.4	966.8	874.0	809.5	758.9	706.7	652.9	576.0	482.6
40°	2233.5	2163.4	1775.0	1341.9	1138.7	995.3	929.0	883.3	855.6	796.5	707.5
37.5°	2554.3	2479.9	2374.1	2168.8	1613.0	1290.3	1134.9	1046.1	1039.1	984.5	905.6
35°	2731.9	2677.3	2623.7	2489.4	2192.5	1909.7	1476.7	1269.5	1169.2	1145.6	1080.9
32.5°	2952.9	2901.9	2832.2	2762.2	2688.9	2660.4	2178.4	1671.5	1331.9	1265.5	1208.3
30°	3214.5	3170.1	3086.6	3022.8	3016.2	2990.5	2885.3	2267.7	1718.4	1369.6	1330.1
27.5°	3667.9	3484.7	3385.9	3356.2	3349.0	3333.9	3261.6	2970.6	2176.5	1660.3	1434.1
25°	4401.9	4043.7	3868.7	3823.5	3825.8	3771.3	3719.8	3479.4	2887.5	2012.1	1541.6
22.5°	5594.2	4965.8	4647.3	4493.8	4390.0	4312.5	4157.0	3932.5	3625.2	2516.6	1842.3
20°	8163.2	6200.1	5539.1	5168.3	4878.6	4670.1	4460.8	4254.3	3908.6	3129.1	2159.4
17.5°	14417.0	8661.7	6442.1	5819.4	5372.4	5003.6	4767.3	4503.3	4162.9	3614.2	2426.8
15°	22658.1	13057.2	8319.4	6579.3	5941.2	5447.4	5166.9	4830.0	4470.6	3915.6	2819.2
12.5°	34424.6	18966.3	10092.8	7236.7	6412.6	5825.5	5439.0	5162.2	4773.7	4230.0	3294.7
10°	44064.7	25488.8	13787.3	8608.3	6899.6	6102.3	5640.1	5341.6	4989.5	4517.8	3739.0
7.5°	55406.1	31727.5	16974.8	9585.5	7432.4	6431.5	5809.0	5468.1	5132.0	4630.7	3982.1
5°	62948.4	36244.6	19830.9	10638.8	7945.1	6786.0	5960.8	5559.2	5203.2	4666.5	4145.6
2.5°	68924.6	38747.4	20974.2	10928.7	8277.7	7117.9	6161.5	5672.4	5253.8	4709.7	4270.3
0°	72587.3	40315.6	20618.5	11114.1	8481.0	7333.8	6440.3	5798.0	5276.0	4737.0	4337.6
-2.5°	70934.3	39578.1	20444.7	10964.7	8599.4	7458.1	6659.5	6079.9	5398.5	4776.8	4366.5
-5°	66052.0	36759.2	20005.9	11020.5	8651.3	7547.3	6801.1	6259.1	5511.6	4824.3	4339.5
-7.5°	57361.7	32919.0	18013.3	10669.1	8597.5	7580.0	6884.0	6349.2	5653.5	4973.0	4308.7
-10°	45285.8	26752.6	15151.8	10172.0	8484.9	7558.8	6933.6	6356.7	5707.7	5080.5	4204.1
-12.5°	36049.2	20944.0	12148.2	9460.0	8326.1	7514.2	6952.3	6310.6	5728.0	5179.5	4078.5
-15°	25154.5	15700.7	10942.9	9154.5	8172.8	7449.3	6915.7	6224.2	5706.6	5223.7	3845.5
-17.5°	17749.5	11995.7	9752.0	8699.3	7945.5	7382.3	6780.0	6158.3	5640.9	4986.2	3486.4
-20°	12103.1	10257.8	9230.9	8404.3	7738.1	7255.9	6600.0	6060.5	5511.4	4488.7	3223.7



REPORT NUMBER: P701614 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	10259.1	9425.8	8750.8	8103.4	7646.2	7039.9	6439.7	5913.0	5321.8	3924.9	2934.2
-25°	9322.3	8800.3	8323.1	7958.0	7463.5	6841.2	6291.9	5678.8	4679.1	3458.9	2667.3
-27.5°	8644.5	8288.7	8072.2	7720.3	7192.5	6652.9	6083.7	5322.9	3944.3	3079.9	2674.8
-30°	8156.2	7979.7	7752.0	7391.4	6911.9	6398.4	5841.7	4551.2	3442.9	2783.5	2665.1
-32.5°	7836.9	7650.1	7382.3	7010.5	6577.5	6099.6	4978.8	3824.8	2980.6	2764.7	2602.4
-35°	7539.5	7262.6	6908.1	6556.6	6219.1	5140.5	4033.6	3202.7	2859.5	2720.4	2516.9
-37.5°	7066.4	6733.5	6375.5	5948.4	5028.5	4060.5	3279.5	2937.0	2815.5	2623.2	2390.0
-40°	6412.8	6074.3	5412.8	4684.3	3926.7	3182.2	2984.4	2890.0	2704.8	2493.7	2236.7
-42.5°	5308.6	4691.4	4133.7	3554.1	3074.1	3004.6	2913.8	2753.4	2558.1	2317.3	2075.1
-45°	3947.3	3469.3	3062.7	3036.5	2993.7	2890.0	2759.2	2573.9	2360.2	2133.0	1903.9
-47.5°	3024.7	2991.0	2973.8	2919.0	2827.4	2710.3	2540.3	2357.4	2151.0	1942.3	1746.3
-50°	2915.8	2857.0	2795.5	2719.7	2592.2	2451.8	2296.0	2124.2	1942.6	1767.6	1582.6
-52.5°	2721.8	2628.4	2531.4	2430.9	2319.0	2192.8	2050.0	1907.9	1754.3	1583.9	1412.7
-55°	2407.7	2323.4	2241.4	2150.7	2052.5	1946.7	1830.9	1696.4	1545.5	1388.7	1243.4
-57.5°	2102.5	2025.0	1963.9	1890.9	1807.6	1707.4	1596.7	1465.8	1332.6	1201.5	1074.8
-60°	1828.5	1756.9	1700.0	1630.7	1550.0	1458.4	1360.5	1249.4	1128.8	1031.2	935.5
-62.5°	1551.3	1487.8	1430.0	1367.0	1296.5	1218.7	1136.2	1056.8	967.1	877.8	784.7
-65°	1267.3	1205.9	1155.9	1116.9	1067.0	1013.7	949.7	879.1	795.7	713.8	628.5
-67.5°	1014.7	969.2	933.5	899.3	855.6	806.8	747.7	684.6	623.9	563.6	496.9
-70°	780.9	744.5	710.4	675.3	642.7	611.0	571.4	526.1	475.1	435.2	399.0
-72.5°	575.8	552.7	529.0	505.4	478.9	460.4	440.8	416.3	388.5	357.6	331.1
-75°	439.3	426.6	413.9	403.0	390.4	376.3	364.1	350.3	335.5	319.0	302.5
-77.5°	369.4	361.2	353.5	348.4	342.6	335.5	326.7	315.5	303.9	290.2	276.7
-80°	330.3	323.8	317.4	312.8	307.6	301.6	294.9	285.4	275.4	263.8	252.5
-82.5°	295.7	290.3	284.9	280.4	275.7	270.9	265.6	257.4	248.9	239.1	229.2
-85°	263.5	258.9	254.2	250.5	246.7	242.5	238.0	230.8	223.5	215.3	207.0
-87.5°	236.8	232.8	228.8	225.4	222.0	217.9	213.7	207.8	201.8	195.3	188.8
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	2.4



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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°	168.8	161.5	156.0	150.5	144.5	138.4	131.7	125.0	116.5	108.0	97.7
87.5°	2.4	2.4	2.8	3.1	3.0	3.0	3.0	2.9	3.1	3.3	3.6
85°	2.8	2.8	3.1	3.6	3.6	3.6	3.5	3.4	3.8	4.1	4.1
82.5°	3.6	3.5	3.5	3.6	4.0	4.2	4.1	4.0	4.5	4.9	4.7
80°	4.1	4.3	4.2	4.0	4.4	4.9	4.7	4.6	5.0	5.4	5.3
77.5°	5.0	5.1	4.9	4.7	4.7	5.0	5.1	5.2	5.5	5.8	5.8
75°	6.1	5.7	5.1	5.1	5.2	5.1	5.5	5.8	6.2	6.3	6.4
72.5°	6.1	6.1	5.6	5.5	6.2	6.4	6.4	6.5	7.0	7.3	7.2
70°	9.2	7.2	6.7	7.0	7.4	7.9	8.0	8.1	7.9	8.4	8.4
67.5°	14.7	12.2	10.1	8.8	8.9	9.4	9.6	10.1	10.1	9.6	9.7
65°	28.3	20.4	14.4	12.6	11.2	11.1	11.4	12.3	12.4	12.2	11.1
62.5°	40.5	31.5	24.1	18.1	15.1	15.1	13.5	14.9	14.9	14.9	13.4
60°	51.6	42.1	34.8	28.6	23.1	20.3	19.2	17.8	18.2	17.8	16.3
57.5°	51.9	51.2	47.9	40.5	35.4	29.6	26.5	24.1	21.9	21.6	19.3
55°	52.8	53.5	59.8	55.5	50.2	42.4	37.1	32.6	27.4	26.0	22.5
52.5°	63.1	64.9	69.9	73.3	69.4	58.6	52.9	41.8	37.7	30.7	26.9
50°	80.9	87.2	87.9	94.1	91.0	83.9	70.2	58.8	48.9	37.5	31.7
47.5°	126.2	132.0	120.9	123.9	118.2	113.0	96.5	79.3	61.1	48.8	36.7
45°	240.1	206.5	187.1	171.0	156.4	150.3	128.1	101.9	81.9	60.7	41.9
42.5°	389.2	338.8	299.7	227.6	219.3	194.2	166.3	136.5	104.4	73.2	50.6
40°	599.4	503.3	436.7	360.0	296.8	243.8	215.5	175.5	128.4	88.9	61.8
37.5°	797.3	674.6	590.0	496.7	394.4	325.0	269.6	217.4	157.0	110.9	73.2
35°	956.5	834.6	720.0	623.8	520.1	406.4	327.7	264.2	193.8	133.8	84.9
32.5°	1100.9	971.3	841.4	732.9	620.3	485.7	395.5	310.6	230.8	157.5	97.1
30°	1228.8	1104.9	956.9	822.6	702.9	568.9	459.6	354.0	268.0	181.9	111.2
27.5°	1368.3	1243.3	1074.2	920.0	775.6	641.1	510.8	394.4	305.0	206.7	129.7
25°	1499.5	1372.4	1204.8	1029.3	849.1	698.7	558.5	432.0	339.7	231.8	147.2
22.5°	1587.5	1481.2	1324.7	1145.0	930.1	755.0	605.2	472.9	363.2	254.7	163.7
20°	1658.4	1576.7	1430.7	1232.5	1018.1	821.4	651.8	506.0	385.0	275.4	179.0
17.5°	1759.6	1653.9	1505.9	1306.1	1098.9	888.4	696.8	537.0	405.0	294.0	193.1
15°	2008.2	1721.5	1579.0	1375.2	1161.2	945.5	740.6	566.4	423.3	310.4	205.9
12.5°	2266.0	1787.3	1649.7	1435.1	1207.2	994.4	782.6	593.8	439.6	327.1	217.3
10°	2508.0	1844.5	1715.5	1489.8	1247.2	1035.4	822.2	623.7	463.9	344.3	227.5
7.5°	2712.7	1896.5	1777.5	1539.2	1283.3	1072.5	862.2	661.2	488.5	360.1	236.6
5°	2885.4	1944.4	1837.6	1600.1	1326.1	1106.7	897.5	695.9	511.5	374.3	244.4
2.5°	3003.1	1987.9	1891.6	1657.0	1363.5	1135.2	927.6	727.3	532.5	386.6	250.9
0°	3081.1	2027.4	1937.5	1705.7	1394.9	1158.2	953.0	755.1	551.2	397.0	256.2
-2.5°	3105.7	2068.6	1975.2	1747.0	1445.1	1188.8	971.5	768.0	563.9	408.7	264.9
-5°	3088.2	2106.5	2005.9	1779.9	1487.1	1213.3	985.3	776.8	573.7	418.0	272.1
-7.5°	3035.5	2149.2	2031.5	1804.5	1519.4	1231.0	993.8	781.5	580.8	424.8	277.7
-10°	2945.5	2192.0	2052.0	1813.7	1524.4	1240.1	997.8	782.1	585.2	429.1	281.7
-12.5°	2832.3	2231.2	2064.7	1812.0	1518.4	1242.0	1001.3	780.4	586.4	430.7	283.7
-15°	2687.5	2280.7	2081.0	1800.7	1504.9	1238.1	998.2	774.4	582.8	428.1	283.9
-17.5°	2497.7	2326.8	2091.4	1786.2	1486.5	1228.6	988.2	762.9	575.9	421.2	281.4
-20°	2492.9	2346.7	2085.7	1758.4	1460.0	1211.5	971.0	745.9	565.8	411.7	276.6



REPORT NUMBER: P701614 (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°	2527.6	2338.5	2052.9	1721.4	1428.4	1187.1	948.3	723.5	552.3	399.8	270.1
-25°	2546.7	2322.8	2007.0	1681.6	1396.0	1156.1	921.6	700.0	535.4	385.4	262.0
-27.5°	2515.7	2276.1	1947.2	1628.5	1359.0	1119.3	890.9	683.2	520.2	368.5	252.1
-30°	2462.5	2187.9	1873.9	1566.8	1311.2	1076.8	854.6	662.9	503.3	354.8	240.5
-32.5°	2383.3	2093.0	1791.3	1507.8	1256.8	1027.8	813.6	638.7	483.7	343.1	233.0
-35°	2258.4	1986.0	1702.6	1441.3	1196.4	977.9	774.4	610.5	461.3	328.4	226.6
-37.5°	2123.5	1863.1	1620.7	1369.0	1133.3	923.3	739.8	580.8	436.3	310.6	219.3
-40°	1982.3	1739.0	1515.2	1291.0	1068.2	864.6	700.2	547.2	411.9	289.7	210.6
-42.5°	1834.1	1617.7	1406.1	1200.2	997.3	815.0	655.8	508.4	382.7	274.2	200.3
-45°	1695.6	1490.4	1290.9	1104.1	921.7	759.7	606.7	465.6	350.1	260.6	192.5
-47.5°	1549.8	1358.3	1175.2	1001.7	852.7	698.3	551.3	425.9	315.2	245.1	189.5
-50°	1399.7	1223.8	1057.2	908.9	772.5	630.0	493.5	382.8	294.3	226.8	185.7
-52.5°	1247.5	1088.5	946.9	816.7	685.9	555.5	439.9	338.4	271.9	216.8	181.2
-55°	1093.9	964.8	842.2	717.8	594.5	486.0	382.1	310.2	247.9	210.1	176.3
-57.5°	962.2	847.9	729.4	613.0	510.4	415.3	338.9	280.7	235.9	202.9	172.9
-60°	831.6	719.3	609.9	518.2	430.8	358.1	304.4	256.1	226.9	195.6	168.8
-62.5°	685.6	589.0	507.7	428.0	367.1	316.6	272.5	243.9	217.1	189.8	164.0
-65°	552.7	478.7	409.4	363.7	318.4	280.2	257.0	230.9	208.1	183.4	158.9
-67.5°	430.1	390.1	349.6	308.6	283.8	262.7	240.8	220.0	199.4	176.5	153.7
-70°	361.7	325.2	301.5	282.9	264.4	245.4	228.2	210.0	190.3	169.8	148.2
-72.5°	312.9	295.4	278.4	261.6	246.6	231.3	215.9	199.6	181.4	162.7	142.3
-75°	286.4	271.7	257.5	243.7	230.2	216.7	203.3	188.5	172.0	155.3	135.9
-77.5°	263.4	250.4	237.8	225.9	214.6	203.1	190.5	177.1	162.3	147.1	129.3
-80°	241.1	229.8	219.4	209.3	199.4	189.3	177.4	165.6	152.2	138.6	122.3
-82.5°	219.2	209.5	200.9	192.1	183.2	174.1	164.0	154.0	141.9	129.8	115.6
-85°	198.3	189.6	182.0	174.4	166.6	158.8	151.1	143.2	133.0	122.7	109.8
-87.5°	181.4	173.9	167.8	161.6	155.2	148.6	141.5	134.2	124.8	115.4	103.8
-90°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	87.4	73.4	59.5	43.1	26.7	15.1	3.6
87.5°	3.9	4.0	4.0	3.9	3.8	3.9	3.6
85°	4.3	4.4	4.5	4.3	4.0	4.2	3.6
82.5°	4.6	4.8	4.9	4.6	4.3	4.5	3.6
80°	5.0	5.3	5.3	4.9	4.5	4.8	3.6
77.5°	5.7	5.8	5.8	5.2	4.8	5.1	3.6
75°	6.4	6.5	6.2	5.5	5.0	5.4	3.6
72.5°	7.1	7.2	6.9	5.8	5.3	5.7	3.6
70°	7.9	7.9	7.6	6.2	5.7	6.0	3.6
67.5°	9.4	8.6	8.3	7.0	6.0	6.3	3.6
65°	10.9	9.8	9.0	7.7	6.4	6.6	3.6
62.5°	12.6	11.4	9.8	8.4	6.8	6.9	3.6
60°	14.3	13.1	10.6	9.2	7.2	7.3	3.6
57.5°	17.0	14.8	12.3	9.9	8.0	7.6	3.6
55°	19.9	16.6	13.9	10.7	8.9	7.9	3.6
52.5°	22.8	18.6	15.7	11.5	9.8	8.2	3.6
50°	25.7	21.3	17.4	12.3	10.6	8.6	3.6
47.5°	28.9	24.1	19.3	13.3	11.5	8.9	3.6
45°	33.4	27.1	21.1	14.7	12.5	9.3	3.6
42.5°	38.0	30.1	23.0	16.1	13.4	9.6	3.6
40°	43.0	33.2	25.2	17.9	14.4	9.9	3.6
37.5°	48.5	36.4	27.6	19.9	15.3	10.3	3.6
35°	54.2	40.4	30.1	21.9	16.3	10.6	3.6
32.5°	61.2	44.9	32.5	23.9	17.3	10.9	3.6
30°	71.3	49.4	35.0	25.9	18.3	11.3	3.6
27.5°	81.2	53.8	38.1	27.9	19.3	11.6	3.6
25°	91.0	58.3	41.3	29.9	20.3	11.9	3.6
22.5°	100.5	62.7	44.4	31.9	21.3	12.3	3.6
20°	109.7	67.3	47.4	33.8	22.3	12.6	3.6
17.5°	118.3	71.7	50.4	35.7	23.2	12.9	3.6
15°	126.2	75.9	53.3	37.6	24.2	13.2	3.6
12.5°	133.5	79.8	56.0	39.4	25.1	13.4	3.6
10°	140.2	83.6	58.7	41.1	26.0	13.7	3.6
7.5°	146.2	87.0	61.2	42.8	26.8	14.0	3.6
5°	151.6	90.2	63.6	44.4	27.6	14.2	3.6
2.5°	156.3	93.2	65.9	45.9	28.4	14.4	3.6
0°	160.2	95.9	68.0	47.3	29.1	14.6	3.6
-2.5°	165.4	99.9	71.0	49.4	30.4	15.2	3.6
-5°	169.7	103.7	73.9	51.4	31.6	15.8	3.6
-7.5°	173.3	107.1	76.5	53.3	32.8	16.3	3.6
-10°	176.0	110.2	79.0	55.0	33.9	16.9	3.6
-12.5°	177.9	113.0	81.3	56.6	35.0	17.3	3.6
-15°	178.9	115.5	83.4	58.1	36.0	17.8	3.6
-17.5°	179.0	117.6	85.2	59.5	36.8	18.3	3.6
-20°	178.4	119.3	86.9	60.7	37.7	18.7	3.6



REPORT NUMBER: P701614 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-70-3S-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	177.0	120.7	88.2	61.7	38.4	19.0	3.6
-25°	174.7	121.9	89.4	62.6	39.1	19.4	3.6
-27.5°	171.4	122.9	90.3	63.4	39.6	19.7	3.6
-30°	167.3	123.6	91.0	63.9	40.1	19.9	3.6
-32.5°	162.2	123.9	91.9	64.3	40.5	20.2	3.6
-35°	160.3	123.8	92.6	64.6	40.8	20.4	3.6
-37.5°	159.8	123.7	93.0	64.7	41.0	20.5	3.6
-40°	158.9	123.9	93.2	64.6	41.1	20.6	3.6
-42.5°	157.5	123.9	93.2	64.4	41.1	20.7	3.6
-45°	155.5	123.5	93.1	64.4	41.1	20.7	3.6
-47.5°	153.0	122.8	92.8	64.1	40.9	20.7	3.6
-50°	151.3	121.9	92.1	63.9	40.7	20.7	3.6
-52.5°	149.4	120.7	91.2	63.6	40.3	20.6	3.6
-55°	147.0	118.8	90.1	63.2	39.9	20.5	3.6
-57.5°	144.3	116.7	88.7	62.6	39.4	20.3	3.6
-60°	141.2	114.3	87.0	61.9	38.8	20.1	3.6
-62.5°	137.8	111.6	85.7	61.0	38.2	19.9	3.6
-65°	134.2	108.7	84.2	59.9	37.5	19.6	3.6
-67.5°	130.2	105.7	82.4	58.7	36.8	19.3	3.6
-70°	126.0	102.7	80.5	57.4	35.9	19.0	3.6
-72.5°	121.5	99.5	78.3	56.0	35.0	18.6	3.6
-75°	116.7	95.9	75.9	54.5	34.0	18.2	3.6
-77.5°	111.6	92.2	73.6	52.9	32.9	17.8	3.6
-80°	106.3	88.6	71.1	51.2	31.8	17.3	3.6
-82.5°	101.7	85.0	68.4	49.3	30.6	16.8	3.6
-85°	97.1	81.3	65.6	47.3	29.4	16.3	3.6
-87.5°	92.3	77.5	62.6	45.3	28.1	15.7	3.6
-90°	3.6	3.6	3.6	3.6	3.6	3.6	3.6

(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

