

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: P701469 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-40-80-1S-HEG-S**

Issue Date: 8/15/2023

Test Information

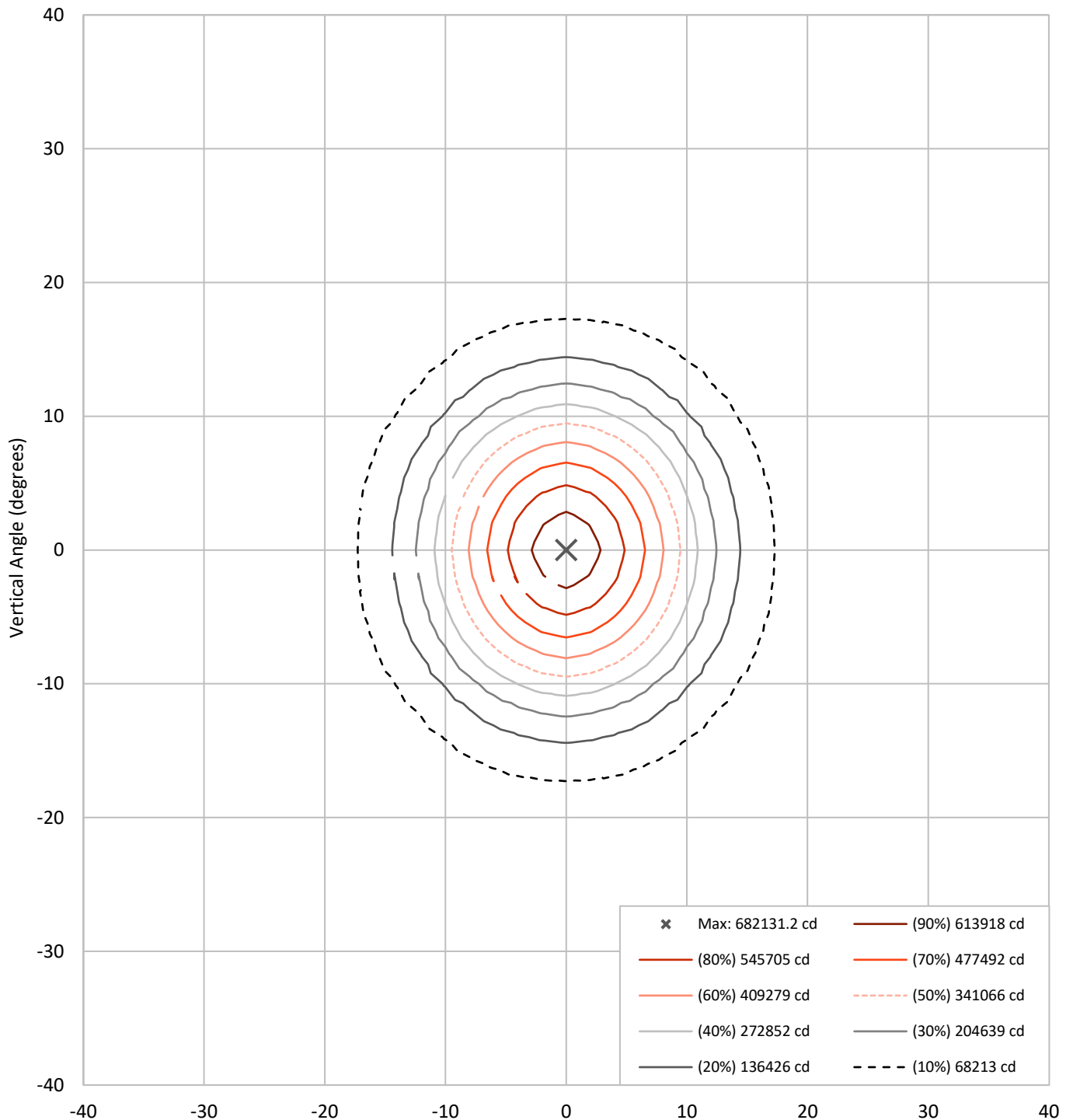
Test Method: LM-79-08
Report Number: P701469 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-61)
Test Lab: INNOVATION CENTER
Issue Date: 8/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680R-40-80-1S-HEG-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 1S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	92405.3 lumens	Max Intensity:	682131.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	127.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	19°H x 19°V	Field Angle (10%):	34.3°H x 34.3°V
Beam Lumens:	39827.9 lumens	Field Lumens:	73371.6 lumens
Beam Efficiency:	43.1%	Field Efficiency:	79.4%
Input Watts (W):	724.6		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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Iso-Candela Plot





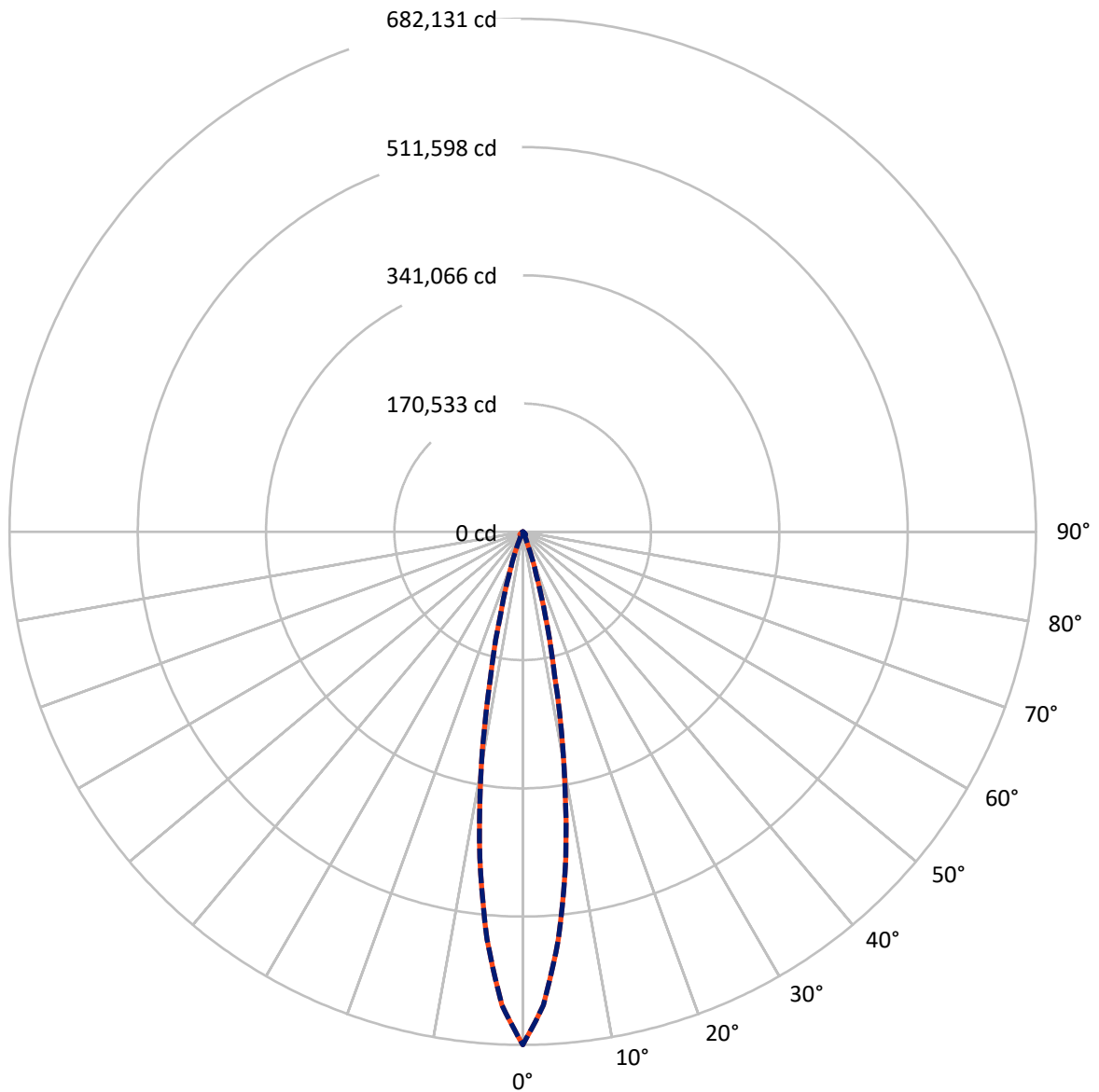
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Lumen Table

90	0.1		0.9		3.2		8.0		10.6		8.0		3.2		0.9		0.1	
80	0.1		0.9		3.2		8.0		10.6		8.0		3.2		0.9		0.1	
70	0.4	0.5	1.9	5.8	11.6	18.0	23.3	26.3	26.3	23.3	18.0	11.6	5.8	1.9	0.5	0.4	0.4	0.4
60		1.4	6.8	16.7	28.8	38.9	45.5	49.1	49.1	45.5	38.9	28.8	16.7	6.8	1.4			
50	1.1	3.6	13.7	28.5	41.7	70.6	111.2	133.6	133.6	111.2	70.6	41.7	28.5	13.7	3.6	1.1	1.1	1.1
40		6.2	20.3	36.0	85.3	145.9	161.2	161.5	161.5	161.2	145.9	85.3	36.0	20.3	6.2			
30	2.3	8.7	24.8	55.7	132.0	146.2	160.6	278.4	278.4	160.6	146.2	132.0	55.7	24.8	8.7	2.3	2.3	2.3
20		10.5	27.2	82.6	136.6	150.9	882.4	3295.1	3295.1	882.4	150.9	136.6	82.6	27.2	10.5			
10	2.9	11.5	28.4	95.9	132.5	256.1	3215.2	12653.2	12653.2	3215.2	256.1	132.5	95.9	28.4	11.5	2.9	2.9	2.9
0		11.5	28.4	95.9	132.5	256.1	3215.2	12653.2	12653.2	3215.2	256.1	132.5	95.9	28.4	11.5			
-10	2.3	10.5	27.2	82.6	136.6	150.9	882.4	3295.1	3295.1	882.4	150.9	136.6	82.6	27.2	10.5	2.3	2.3	2.3
-20		8.7	24.8	55.7	132.0	146.2	160.6	278.4	278.4	160.6	146.2	132.0	55.7	24.8	8.7			
-30	1.1	6.2	20.3	36.0	85.3	145.9	161.2	161.5	161.5	161.2	145.9	85.3	36.0	20.3	6.2	1.1	1.1	1.1
-40		3.6	13.7	28.5	41.7	70.6	111.2	133.6	133.6	111.2	70.6	41.7	28.5	13.7	3.6			
-50	0.4	1.4	6.8	16.7	28.8	38.9	45.5	49.1	49.1	45.5	38.9	28.8	16.7	6.8	1.4	0.4	0.4	0.4
-60		0.5	1.9	5.8	11.6	18.0	23.3	26.3	26.3	23.3	18.0	11.6	5.8	1.9	0.5			
-70	0.1	0.9		3.2		8.0		10.6		8.0		3.2		0.9		0.1	0.1	0.1
-80		0.9		3.2		8.0		10.6		8.0		3.2		0.9				
-90	0.1		0.9		3.2		8.0		10.6		8.0		3.2		0.9		0.1	

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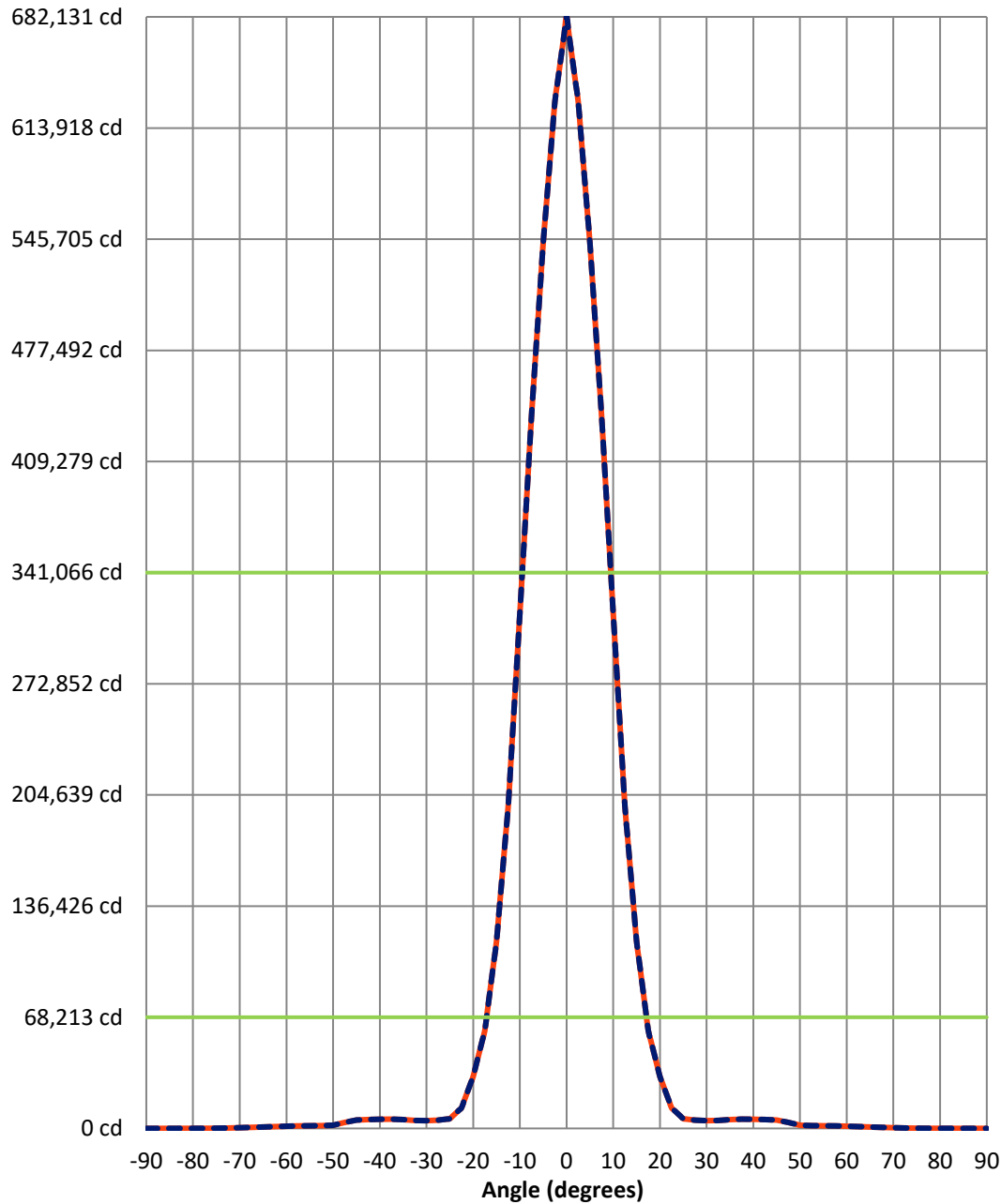
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 19°
 V Angle: 19°
 Lumens: 39827.9
 Efficiency: 43.1%

Field:
 H Angle: 34.3°
 V Angle: 34.3°
 Lumens: 73371.6
 Efficiency: 79.4%

Spill:
 Lumens: 19033.7
 Efficiency: 20.6%

— 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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.3	0.6	0.8	1.1	1.4	1.7	2.0	2.2	2.5	2.7
85°	0.0	0.6	1.1	1.7	2.3	2.8	3.4	3.9	4.4	5.0	5.5
82.5°	0.0	0.8	1.7	2.5	3.4	4.2	5.0	5.8	6.6	7.2	7.8
80°	0.0	1.1	2.3	3.4	4.5	5.6	6.6	7.5	8.3	9.1	9.8
77.5°	0.0	1.4	2.8	4.2	5.6	6.9	7.9	8.9	9.9	10.9	12.4
75°	0.0	1.7	3.4	5.0	6.6	7.9	9.1	10.3	11.7	14.1	16.4
72.5°	0.0	2.0	3.9	5.8	7.5	8.9	10.3	12.1	14.9	17.7	20.4
70°	0.0	2.2	4.4	6.6	8.3	9.9	11.7	14.9	18.1	21.3	24.9
67.5°	0.0	2.5	5.0	7.2	9.1	10.9	14.1	17.7	21.3	25.4	29.5
65°	0.0	2.7	5.5	7.8	9.8	12.4	16.4	20.4	24.9	29.5	35.0
62.5°	0.0	3.0	6.0	8.4	10.6	14.3	18.7	23.4	28.5	34.1	42.5
60°	0.0	3.2	6.5	8.9	11.4	16.2	20.9	26.5	32.0	40.8	49.9
57.5°	0.0	3.5	6.9	9.5	12.8	18.0	23.5	29.5	37.3	47.3	68.6
55°	0.0	3.7	7.2	10.0	14.2	19.8	26.0	32.4	43.0	57.0	92.2
52.5°	0.0	4.0	7.6	10.5	15.6	21.5	28.4	37.0	48.5	77.7	115.2
50°	0.0	4.2	7.9	11.0	16.9	23.5	30.8	41.7	57.5	97.7	158.5
47.5°	0.0	4.4	8.2	11.6	18.2	25.4	33.3	46.2	74.8	117.2	202.8
45°	0.0	4.6	8.5	12.6	19.4	27.2	37.0	50.5	91.4	155.1	245.6
42.5°	0.0	4.8	8.8	13.4	20.6	28.9	40.5	60.4	107.3	192.0	299.1
40°	0.0	5.0	9.1	14.3	21.9	30.6	44.0	73.7	127.7	227.3	352.4
37.5°	0.0	5.2	9.4	15.1	23.1	32.2	47.2	86.3	157.5	264.2	403.2
35°	0.0	5.3	9.6	15.9	24.3	34.4	50.3	98.3	185.7	307.4	453.2
32.5°	0.0	5.5	9.9	16.6	25.4	36.8	55.1	109.5	212.2	348.0	503.2
30°	0.0	5.6	10.1	17.2	26.5	39.0	64.1	122.7	237.1	386.1	550.0
27.5°	0.0	5.8	10.3	17.9	27.5	41.1	72.5	142.8	263.2	421.5	593.6
25°	0.0	5.9	10.5	18.4	28.4	43.0	80.2	161.3	292.0	456.3	634.2
22.5°	0.0	6.0	10.7	19.0	29.2	44.7	87.2	178.2	318.3	489.1	678.5
20°	0.0	6.1	10.8	19.4	29.9	46.3	93.5	193.4	342.0	518.7	718.5
17.5°	0.0	6.2	10.9	19.8	30.6	47.7	99.1	206.9	363.1	545.0	754.1
15°	0.0	6.3	11.1	20.2	31.1	48.9	104.0	218.7	381.5	567.9	785.2
12.5°	0.0	6.3	11.2	20.5	31.6	49.9	108.1	228.7	397.1	587.4	811.6
10°	0.0	6.4	11.3	20.8	32.0	50.8	111.5	236.9	409.9	603.5	833.4
7.5°	0.0	6.4	11.3	20.9	32.3	51.4	114.2	243.3	420.0	616.0	850.4
5°	0.0	6.5	11.4	21.1	32.5	51.9	116.1	247.9	427.1	625.0	862.5
2.5°	0.0	6.5	11.4	21.2	32.7	52.2	117.2	250.7	431.5	630.4	869.9
0°	0.0	6.5	11.4	21.2	32.7	52.2	117.2	250.7	431.5	630.4	869.9
-2.5°	0.0	6.5	11.4	21.2	32.7	52.2	117.2	250.7	431.5	630.4	869.9
-5°	0.0	6.5	11.4	21.1	32.5	51.9	116.1	247.9	427.1	625.0	862.5
-7.5°	0.0	6.4	11.3	20.9	32.3	51.4	114.2	243.3	420.0	616.0	850.4
-10°	0.0	6.4	11.3	20.8	32.0	50.8	111.5	236.9	409.9	603.5	833.4
-12.5°	0.0	6.3	11.2	20.5	31.6	49.9	108.1	228.7	397.1	587.4	811.6
-15°	0.0	6.3	11.1	20.2	31.1	48.9	104.0	218.7	381.5	567.9	785.2
-17.5°	0.0	6.2	10.9	19.8	30.6	47.7	99.1	206.9	363.1	545.0	754.1
-20°	0.0	6.1	10.8	19.4	29.9	46.3	93.5	193.4	342.0	518.7	718.5



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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°	0.0	6.0	10.7	19.0	29.2	44.7	87.2	178.2	318.3	489.1	678.5
-25°	0.0	5.9	10.5	18.4	28.4	43.0	80.2	161.3	292.0	456.3	634.2
-27.5°	0.0	5.8	10.3	17.9	27.5	41.1	72.5	142.8	263.2	421.5	593.6
-30°	0.0	5.6	10.1	17.2	26.5	39.0	64.1	122.7	237.1	386.1	550.0
-32.5°	0.0	5.5	9.9	16.6	25.4	36.8	55.1	109.5	212.2	348.0	503.2
-35°	0.0	5.3	9.6	15.9	24.3	34.4	50.3	98.3	185.7	307.4	453.2
-37.5°	0.0	5.2	9.4	15.1	23.1	32.2	47.2	86.3	157.5	264.2	403.2
-40°	0.0	5.0	9.1	14.3	21.9	30.6	44.0	73.7	127.7	227.3	352.4
-42.5°	0.0	4.8	8.8	13.4	20.6	28.9	40.5	60.4	107.3	192.0	299.1
-45°	0.0	4.6	8.5	12.6	19.4	27.2	37.0	50.5	91.4	155.1	245.6
-47.5°	0.0	4.4	8.2	11.6	18.2	25.4	33.3	46.2	74.8	117.2	202.8
-50°	0.0	4.2	7.9	11.0	16.9	23.5	30.8	41.7	57.5	97.7	158.5
-52.5°	0.0	4.0	7.6	10.5	15.6	21.5	28.4	37.0	48.5	77.7	115.2
-55°	0.0	3.7	7.2	10.0	14.2	19.8	26.0	32.4	43.0	57.0	92.2
-57.5°	0.0	3.5	6.9	9.5	12.8	18.0	23.5	29.5	37.3	47.3	68.6
-60°	0.0	3.2	6.5	8.9	11.4	16.2	20.9	26.5	32.0	40.8	49.9
-62.5°	0.0	3.0	6.0	8.4	10.6	14.3	18.7	23.4	28.5	34.1	42.5
-65°	0.0	2.7	5.5	7.8	9.8	12.4	16.4	20.4	24.9	29.5	35.0
-67.5°	0.0	2.5	5.0	7.2	9.1	10.9	14.1	17.7	21.3	25.4	29.5
-70°	0.0	2.2	4.4	6.6	8.3	9.9	11.7	14.9	18.1	21.3	24.9
-72.5°	0.0	2.0	3.9	5.8	7.5	8.9	10.3	12.1	14.9	17.7	20.4
-75°	0.0	1.7	3.4	5.0	6.6	7.9	9.1	10.3	11.7	14.1	16.4
-77.5°	0.0	1.4	2.8	4.2	5.6	6.9	7.9	8.9	9.9	10.9	12.4
-80°	0.0	1.1	2.3	3.4	4.5	5.6	6.6	7.5	8.3	9.1	9.8
-82.5°	0.0	0.8	1.7	2.5	3.4	4.2	5.0	5.8	6.6	7.2	7.8
-85°	0.0	0.6	1.1	1.7	2.3	2.8	3.4	3.9	4.4	5.0	5.5
-87.5°	0.0	0.3	0.6	0.8	1.1	1.4	1.7	2.0	2.2	2.5	2.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	3.2	3.5	3.7	4.0	4.2	4.4	4.6	4.8	5.0	5.2
85°	6.0	6.5	6.9	7.2	7.6	7.9	8.2	8.5	8.8	9.1	9.4
82.5°	8.4	8.9	9.5	10.0	10.5	11.0	11.6	12.6	13.4	14.3	15.1
80°	10.6	11.4	12.8	14.2	15.6	16.9	18.2	19.4	20.6	21.9	23.1
77.5°	14.3	16.2	18.0	19.8	21.5	23.5	25.4	27.2	28.9	30.6	32.2
75°	18.7	20.9	23.5	26.0	28.4	30.8	33.3	37.0	40.5	44.0	47.2
72.5°	23.4	26.5	29.5	32.4	37.0	41.7	46.2	50.5	60.4	73.7	86.3
70°	28.5	32.0	37.3	43.0	48.5	57.5	74.8	91.4	107.3	127.7	157.5
67.5°	34.1	40.8	47.3	57.0	77.7	97.7	117.2	155.1	192.0	227.3	264.2
65°	42.5	49.9	68.6	92.2	115.2	158.5	202.8	245.6	299.1	352.4	403.2
62.5°	50.8	74.5	101.0	136.8	188.6	239.1	300.7	364.5	425.9	489.9	551.6
60°	74.5	104.0	148.9	206.9	267.6	342.0	414.2	489.1	563.0	634.2	715.8
57.5°	101.0	148.9	213.0	284.2	367.1	449.2	535.3	618.6	712.6	805.6	895.2
55°	136.8	206.9	284.2	375.4	467.7	563.2	660.9	769.3	874.0	978.0	1077.7
52.5°	188.6	267.6	367.1	467.7	572.6	683.6	803.6	921.6	1038.0	1147.9	1247.6
50°	239.1	342.0	449.2	563.2	683.6	815.1	945.6	1074.3	1193.2	1304.7	1404.0
47.5°	300.7	414.2	535.3	660.9	803.6	945.6	1086.5	1216.1	1339.3	1444.7	1544.6
45°	364.5	489.1	618.6	769.3	921.6	1074.3	1216.1	1350.9	1465.2	1559.6	1594.2
42.5°	425.9	563.0	712.6	874.0	1038.0	1193.2	1339.3	1465.2	1563.0	1601.1	1645.3
40°	489.9	634.2	805.6	978.0	1147.9	1304.7	1444.7	1559.6	1601.1	1650.0	1702.8
37.5°	551.6	715.8	895.2	1077.7	1247.6	1404.0	1544.6	1594.2	1645.3	1702.8	1860.9
35°	610.3	793.4	982.8	1168.9	1342.8	1493.3	1580.6	1631.1	1693.1	1846.4	2329.3
32.5°	672.5	866.7	1065.6	1252.4	1422.6	1560.4	1610.2	1674.0	1803.3	2132.7	3337.0
30°	735.1	937.7	1141.8	1331.0	1496.9	1586.4	1645.7	1732.4	1930.4	3036.3	4204.8
27.5°	793.4	1004.2	1209.3	1397.7	1556.6	1610.9	1681.3	1844.2	2542.1	3858.7	4977.6
25°	847.2	1065.6	1271.8	1457.1	1577.5	1639.4	1731.8	1948.5	3288.9	4537.2	5255.6
22.5°	897.3	1121.7	1329.0	1511.6	1596.8	1667.7	1821.1	2506.1	3934.6	5143.5	5396.8
20°	943.4	1168.9	1377.0	1554.8	1614.3	1693.3	1902.4	3091.5	4469.7	5263.9	5492.5
17.5°	984.3	1210.9	1417.3	1569.1	1634.5	1737.3	2042.3	3617.3	4951.4	5372.5	5563.2
15°	1020.1	1247.6	1452.5	1581.7	1653.0	1796.3	2469.1	4019.3	5187.2	5457.7	5624.7
12.5°	1050.6	1278.9	1482.6	1592.4	1668.8	1846.7	2834.7	4355.7	5263.4	5507.5	5641.6
10°	1075.7	1304.7	1507.4	1601.2	1681.9	1888.4	3137.1	4634.3	5326.7	5549.0	5655.7
7.5°	1095.3	1324.9	1526.7	1608.2	1692.1	1921.1	3374.2	4853.1	5376.4	5581.6	5666.8
5°	1109.3	1339.3	1540.6	1613.1	1699.5	1944.5	3544.8	5010.6	5412.3	5605.1	5674.8
2.5°	1117.8	1348.0	1549.0	1616.1	1703.9	1958.7	3647.6	5105.6	5433.9	5619.3	5679.7
0°	1120.6	1350.9	1551.8	1617.1	1705.4	1963.4	3681.9	5137.3	5441.1	5624.1	5681.3
-2.5°	1117.8	1348.0	1549.0	1616.1	1703.9	1958.7	3647.6	5105.6	5433.9	5619.3	5679.7
-5°	1109.3	1339.3	1540.6	1613.1	1699.5	1944.5	3544.8	5010.6	5412.3	5605.1	5674.8
-7.5°	1095.3	1324.9	1526.7	1608.2	1692.1	1921.1	3374.2	4853.1	5376.4	5581.6	5666.8
-10°	1075.7	1304.7	1507.4	1601.2	1681.9	1888.4	3137.1	4634.3	5326.7	5549.0	5655.7
-12.5°	1050.6	1278.9	1482.6	1592.4	1668.8	1846.7	2834.7	4355.7	5263.4	5507.5	5641.6
-15°	1020.1	1247.6	1452.5	1581.7	1653.0	1796.3	2469.1	4019.3	5187.2	5457.7	5624.7
-17.5°	984.3	1210.9	1417.3	1569.1	1634.5	1737.3	2042.3	3617.3	4951.4	5372.5	5563.2
-20°	943.4	1168.9	1377.0	1554.8	1614.3	1693.3	1902.4	3091.5	4469.7	5263.9	5492.5



REPORT NUMBER: P701469 (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°	897.3	1121.7	1329.0	1511.6	1596.8	1667.7	1821.1	2506.1	3934.6	5143.5	5396.8
-25°	847.2	1065.6	1271.8	1457.1	1577.5	1639.4	1731.8	1948.5	3288.9	4537.2	5255.6
-27.5°	793.4	1004.2	1209.3	1397.7	1556.6	1610.9	1681.3	1844.2	2542.1	3858.7	4977.6
-30°	735.1	937.7	1141.8	1331.0	1496.9	1586.4	1645.7	1732.4	1930.4	3036.3	4204.8
-32.5°	672.5	866.7	1065.6	1252.4	1422.6	1560.4	1610.2	1674.0	1803.3	2132.7	3337.0
-35°	610.3	793.4	982.8	1168.9	1342.8	1493.3	1580.6	1631.1	1693.1	1846.4	2329.3
-37.5°	551.6	715.8	895.2	1077.7	1247.6	1404.0	1544.6	1594.2	1645.3	1702.8	1860.9
-40°	489.9	634.2	805.6	978.0	1147.9	1304.7	1444.7	1559.6	1601.1	1650.0	1702.8
-42.5°	425.9	563.0	712.6	874.0	1038.0	1193.2	1339.3	1465.2	1563.0	1601.1	1645.3
-45°	364.5	489.1	618.6	769.3	921.6	1074.3	1216.1	1350.9	1465.2	1559.6	1594.2
-47.5°	300.7	414.2	535.3	660.9	803.6	945.6	1086.5	1216.1	1339.3	1444.7	1544.6
-50°	239.1	342.0	449.2	563.2	683.6	815.1	945.6	1074.3	1193.2	1304.7	1404.0
-52.5°	188.6	267.6	367.1	467.7	572.6	683.6	803.6	921.6	1038.0	1147.9	1247.6
-55°	136.8	206.9	284.2	375.4	467.7	563.2	660.9	769.3	874.0	978.0	1077.7
-57.5°	101.0	148.9	213.0	284.2	367.1	449.2	535.3	618.6	712.6	805.6	895.2
-60°	74.5	104.0	148.9	206.9	267.6	342.0	414.2	489.1	563.0	634.2	715.8
-62.5°	50.8	74.5	101.0	136.8	188.6	239.1	300.7	364.5	425.9	489.9	551.6
-65°	42.5	49.9	68.6	92.2	115.2	158.5	202.8	245.6	299.1	352.4	403.2
-67.5°	34.1	40.8	47.3	57.0	77.7	97.7	117.2	155.1	192.0	227.3	264.2
-70°	28.5	32.0	37.3	43.0	48.5	57.5	74.8	91.4	107.3	127.7	157.5
-72.5°	23.4	26.5	29.5	32.4	37.0	41.7	46.2	50.5	60.4	73.7	86.3
-75°	18.7	20.9	23.5	26.0	28.4	30.8	33.3	37.0	40.5	44.0	47.2
-77.5°	14.3	16.2	18.0	19.8	21.5	23.5	25.4	27.2	28.9	30.6	32.2
-80°	10.6	11.4	12.8	14.2	15.6	16.9	18.2	19.4	20.6	21.9	23.1
-82.5°	8.4	8.9	9.5	10.0	10.5	11.0	11.6	12.6	13.4	14.3	15.1
-85°	6.0	6.5	6.9	7.2	7.6	7.9	8.2	8.5	8.8	9.1	9.4
-87.5°	3.0	3.2	3.5	3.7	4.0	4.2	4.4	4.6	4.8	5.0	5.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	5.5	5.6	5.8	5.9	6.0	6.1	6.2	6.3	6.3	6.4
85°	9.6	9.9	10.1	10.3	10.5	10.7	10.8	10.9	11.1	11.2	11.3
82.5°	15.9	16.6	17.2	17.9	18.4	19.0	19.4	19.8	20.2	20.5	20.8
80°	24.3	25.4	26.5	27.5	28.4	29.2	29.9	30.6	31.1	31.6	32.0
77.5°	34.4	36.8	39.0	41.1	43.0	44.7	46.3	47.7	48.9	49.9	50.8
75°	50.3	55.1	64.1	72.5	80.2	87.2	93.5	99.1	104.0	108.1	111.5
72.5°	98.3	109.5	122.7	142.8	161.3	178.2	193.4	206.9	218.7	228.7	236.9
70°	185.7	212.2	237.1	263.2	292.0	318.3	342.0	363.1	381.5	397.1	409.9
67.5°	307.4	348.0	386.1	421.5	456.3	489.1	518.7	545.0	567.9	587.4	603.5
65°	453.2	503.2	550.0	593.6	634.2	678.5	718.5	754.1	785.2	811.6	833.4
62.5°	610.3	672.5	735.1	793.4	847.2	897.3	943.4	984.3	1020.1	1050.6	1075.7
60°	793.4	866.7	937.7	1004.2	1065.6	1121.7	1168.9	1210.9	1247.6	1278.9	1304.7
57.5°	982.8	1065.6	1141.8	1209.3	1271.8	1329.0	1377.0	1417.3	1452.5	1482.6	1507.4
55°	1168.9	1252.4	1331.0	1397.7	1457.1	1511.6	1554.8	1569.1	1581.7	1592.4	1601.2
52.5°	1342.8	1422.6	1496.9	1556.6	1577.5	1596.8	1614.3	1634.5	1653.0	1668.8	1681.9
50°	1493.3	1560.4	1586.4	1610.9	1639.4	1667.7	1693.3	1737.3	1796.3	1846.7	1888.4
47.5°	1580.6	1610.2	1645.7	1681.3	1731.8	1821.1	1902.4	2042.3	2469.1	2834.7	3137.1
45°	1631.1	1674.0	1732.4	1844.2	1948.5	2506.1	3091.5	3617.3	4019.3	4355.7	4634.3
42.5°	1693.1	1803.3	1930.4	2542.1	3288.9	3934.6	4469.7	4951.4	5187.2	5263.4	5326.7
40°	1846.4	2132.7	3036.3	3858.7	4537.2	5143.5	5263.9	5372.5	5457.7	5507.5	5549.0
37.5°	2329.3	3337.0	4204.8	4977.6	5255.6	5396.8	5492.5	5563.2	5624.7	5641.6	5655.7
35°	3437.9	4379.7	5160.0	5332.0	5473.1	5564.3	5631.7	5655.5	5676.8	5616.1	5543.8
32.5°	4379.7	5178.8	5370.6	5508.9	5613.2	5651.3	5679.5	5568.3	5459.9	5323.1	5171.1
30°	5160.0	5370.6	5520.9	5628.5	5663.2	5612.3	5469.0	5269.5	5043.1	4880.4	4838.1
27.5°	5332.0	5508.9	5628.5	5667.3	5573.0	5404.7	5108.0	4877.8	4815.2	4760.2	4872.8
25°	5473.1	5613.2	5663.2	5573.0	5365.0	5025.7	4845.1	4770.1	4901.7	5048.5	5322.8
22.5°	5564.3	5651.3	5612.3	5404.7	5025.7	4834.1	4791.8	4990.0	5316.7	5745.6	7235.2
20°	5631.7	5679.5	5469.0	5108.0	4845.1	4791.8	5019.9	5484.7	6441.0	10081.0	14388.1
17.5°	5655.5	5568.3	5269.5	4877.8	4770.1	4990.0	5484.7	7136.8	11556.3	21137.5	31245.2
15°	5676.8	5459.9	5043.1	4815.2	4901.7	5316.7	6441.0	11556.3	23452.5	38252.0	54869.6
12.5°	5616.1	5323.1	4880.4	4760.2	5048.5	5745.6	10081.0	21137.5	38252.0	58905.7	93889.7
10°	5543.8	5171.1	4838.1	4872.8	5322.8	7235.2	14388.1	31245.2	54869.6	93889.7	141386.7
7.5°	5486.5	5050.5	4804.4	4963.5	5590.1	9529.7	21795.4	43230.0	76937.5	128318.6	198528.6
5°	5445.1	4963.1	4779.9	5029.6	5786.0	11221.2	27298.7	52439.4	97496.8	163070.4	256720.4
2.5°	5420.1	4910.1	4765.0	5069.9	5905.6	12259.0	30694.5	58168.7	110441.5	188126.3	300255.5
0°	5411.7	4892.3	4760.0	5083.4	5945.9	12608.9	31843.1	60115.4	114869.8	197633.5	315806.2
-2.5°	5420.1	4910.1	4765.0	5069.9	5905.6	12259.0	30694.5	58168.7	110441.5	188126.3	300255.5
-5°	5445.1	4963.1	4779.9	5029.6	5786.0	11221.2	27298.7	52439.4	97496.8	163070.4	256720.4
-7.5°	5486.5	5050.5	4804.4	4963.5	5590.1	9529.7	21795.4	43230.0	76937.5	128318.6	198528.6
-10°	5543.8	5171.1	4838.1	4872.8	5322.8	7235.2	14388.1	31245.2	54869.6	93889.7	141386.7
-12.5°	5616.1	5323.1	4880.4	4760.2	5048.5	5745.6	10081.0	21137.5	38252.0	58905.7	93889.7
-15°	5676.8	5459.9	5043.1	4815.2	4901.7	5316.7	6441.0	11556.3	23452.5	38252.0	54869.6
-17.5°	5655.5	5568.3	5269.5	4877.8	4770.1	4990.0	5484.7	7136.8	11556.3	21137.5	31245.2
-20°	5631.7	5679.5	5469.0	5108.0	4845.1	4791.8	5019.9	5484.7	6441.0	10081.0	14388.1



REPORT NUMBER: P701469 (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°	5564.3	5651.3	5612.3	5404.7	5025.7	4834.1	4791.8	4990.0	5316.7	5745.6	7235.2
-25°	5473.1	5613.2	5663.2	5573.0	5365.0	5025.7	4845.1	4770.1	4901.7	5048.5	5322.8
-27.5°	5332.0	5508.9	5628.5	5667.3	5573.0	5404.7	5108.0	4877.8	4815.2	4760.2	4872.8
-30°	5160.0	5370.6	5520.9	5628.5	5663.2	5612.3	5469.0	5269.5	5043.1	4880.4	4838.1
-32.5°	4379.7	5178.8	5370.6	5508.9	5613.2	5651.3	5679.5	5568.3	5459.9	5323.1	5171.1
-35°	3437.9	4379.7	5160.0	5332.0	5473.1	5564.3	5631.7	5655.5	5676.8	5616.1	5543.8
-37.5°	2329.3	3337.0	4204.8	4977.6	5255.6	5396.8	5492.5	5563.2	5624.7	5641.6	5655.7
-40°	1846.4	2132.7	3036.3	3858.7	4537.2	5143.5	5263.9	5372.5	5457.7	5507.5	5549.0
-42.5°	1693.1	1803.3	1930.4	2542.1	3288.9	3934.6	4469.7	4951.4	5187.2	5263.4	5326.7
-45°	1631.1	1674.0	1732.4	1844.2	1948.5	2506.1	3091.5	3617.3	4019.3	4355.7	4634.3
-47.5°	1580.6	1610.2	1645.7	1681.3	1731.8	1821.1	1902.4	2042.3	2469.1	2834.7	3137.1
-50°	1493.3	1560.4	1586.4	1610.9	1639.4	1667.7	1693.3	1737.3	1796.3	1846.7	1888.4
-52.5°	1342.8	1422.6	1496.9	1556.6	1577.5	1596.8	1614.3	1634.5	1653.0	1668.8	1681.9
-55°	1168.9	1252.4	1331.0	1397.7	1457.1	1511.6	1554.8	1569.1	1581.7	1592.4	1601.2
-57.5°	982.8	1065.6	1141.8	1209.3	1271.8	1329.0	1377.0	1417.3	1452.5	1482.6	1507.4
-60°	793.4	866.7	937.7	1004.2	1065.6	1121.7	1168.9	1210.9	1247.6	1278.9	1304.7
-62.5°	610.3	672.5	735.1	793.4	847.2	897.3	943.4	984.3	1020.1	1050.6	1075.7
-65°	453.2	503.2	550.0	593.6	634.2	678.5	718.5	754.1	785.2	811.6	833.4
-67.5°	307.4	348.0	386.1	421.5	456.3	489.1	518.7	545.0	567.9	587.4	603.5
-70°	185.7	212.2	237.1	263.2	292.0	318.3	342.0	363.1	381.5	397.1	409.9
-72.5°	98.3	109.5	122.7	142.8	161.3	178.2	193.4	206.9	218.7	228.7	236.9
-75°	50.3	55.1	64.1	72.5	80.2	87.2	93.5	99.1	104.0	108.1	111.5
-77.5°	34.4	36.8	39.0	41.1	43.0	44.7	46.3	47.7	48.9	49.9	50.8
-80°	24.3	25.4	26.5	27.5	28.4	29.2	29.9	30.6	31.1	31.6	32.0
-82.5°	15.9	16.6	17.2	17.9	18.4	19.0	19.4	19.8	20.2	20.5	20.8
-85°	9.6	9.9	10.1	10.3	10.5	10.7	10.8	10.9	11.1	11.2	11.3
-87.5°	5.3	5.5	5.6	5.8	5.9	6.0	6.1	6.2	6.3	6.3	6.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P701469 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-80-1S-HEG-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	6.5	6.5	6.5	6.5	6.5	6.4	6.4	6.3	6.3	6.2
85°	11.3	11.4	11.4	11.4	11.4	11.4	11.3	11.3	11.2	11.1	10.9
82.5°	20.9	21.1	21.2	21.2	21.2	21.1	20.9	20.8	20.5	20.2	19.8
80°	32.3	32.5	32.7	32.7	32.7	32.5	32.3	32.0	31.6	31.1	30.6
77.5°	51.4	51.9	52.2	52.3	52.2	51.9	51.4	50.8	49.9	48.9	47.7
75°	114.2	116.1	117.2	117.6	117.2	116.1	114.2	111.5	108.1	104.0	99.1
72.5°	243.3	247.9	250.7	251.6	250.7	247.9	243.3	236.9	228.7	218.7	206.9
70°	420.0	427.1	431.5	432.9	431.5	427.1	420.0	409.9	397.1	381.5	363.1
67.5°	616.0	625.0	630.4	632.2	630.4	625.0	616.0	603.5	587.4	567.9	545.0
65°	850.4	862.5	869.9	872.3	869.9	862.5	850.4	833.4	811.6	785.2	754.1
62.5°	1095.3	1109.3	1117.8	1120.6	1117.8	1109.3	1095.3	1075.7	1050.6	1020.1	984.3
60°	1324.9	1339.3	1348.0	1350.9	1348.0	1339.3	1324.9	1304.7	1278.9	1247.6	1210.9
57.5°	1526.7	1540.6	1549.0	1551.8	1549.0	1540.6	1526.7	1507.4	1482.6	1452.5	1417.3
55°	1608.2	1613.1	1616.1	1617.1	1616.1	1613.1	1608.2	1601.2	1592.4	1581.7	1569.1
52.5°	1692.1	1699.5	1703.9	1705.4	1703.9	1699.5	1692.1	1681.9	1668.8	1653.0	1634.5
50°	1921.1	1944.5	1958.7	1963.4	1958.7	1944.5	1921.1	1888.4	1846.7	1796.3	1737.3
47.5°	3374.2	3544.8	3647.6	3681.9	3647.6	3544.8	3374.2	3137.1	2834.7	2469.1	2042.3
45°	4853.1	5010.6	5105.6	5137.3	5105.6	5010.6	4853.1	4634.3	4355.7	4019.3	3617.3
42.5°	5376.4	5412.3	5433.9	5441.1	5433.9	5412.3	5376.4	5326.7	5263.4	5187.2	4951.4
40°	5581.6	5605.1	5619.3	5624.1	5619.3	5605.1	5581.6	5549.0	5507.5	5457.7	5372.5
37.5°	5666.8	5674.8	5679.7	5681.3	5679.7	5674.8	5666.8	5655.7	5641.6	5624.7	5563.2
35°	5486.5	5445.1	5420.1	5411.7	5420.1	5445.1	5486.5	5543.8	5616.1	5676.8	5655.5
32.5°	5050.5	4963.1	4910.1	4892.3	4910.1	4963.1	5050.5	5171.1	5323.1	5459.9	5568.3
30°	4804.4	4779.9	4765.0	4760.0	4765.0	4779.9	4804.4	4838.1	4880.4	5043.1	5269.5
27.5°	4963.5	5029.6	5069.9	5083.4	5069.9	5029.6	4963.5	4872.8	4760.2	4815.2	4877.8
25°	5590.1	5786.0	5905.6	5945.9	5905.6	5786.0	5590.1	5322.8	5048.5	4901.7	4770.1
22.5°	9529.7	11221.2	12259.0	12608.9	12259.0	11221.2	9529.7	7235.2	5745.6	5316.7	4990.0
20°	21795.4	27298.7	30694.5	31843.1	30694.5	27298.7	21795.4	14388.1	10081.0	6441.0	5484.7
17.5°	43230.0	52439.4	58168.7	60115.4	58168.7	52439.4	43230.0	31245.2	21137.5	11556.3	7136.8
15°	76937.5	97496.8	110441.5	114869.8	110441.5	97496.8	76937.5	54869.6	38252.0	23452.5	11556.3
12.5°	128318.6	163070.4	188126.3	197633.5	188126.3	163070.4	128318.6	93889.7	58905.7	38252.0	21137.5
10°	198528.6	256720.4	300255.5	315806.2	300255.5	256720.4	198528.6	141386.7	93889.7	54869.6	31245.2
7.5°	285620.7	363832.7	418788.8	437499.9	418788.8	363832.7	285620.7	198528.6	128318.6	76937.5	43230.0
5°	363832.7	457601.9	520320.6	543521.9	520320.6	457601.9	363832.7	256720.4	163070.4	97496.8	52439.4
2.5°	418788.8	520320.6	594741.2	630028.8	594741.2	520320.6	418788.8	300255.5	188126.3	110441.5	58168.7
0°	437499.9	543521.9	630028.8	682131.2	630028.8	543521.9	437499.9	315806.2	197633.5	114869.8	60115.4
-2.5°	418788.8	520320.6	594741.2	630028.8	594741.2	520320.6	418788.8	300255.5	188126.3	110441.5	58168.7
-5°	363832.7	457601.9	520320.6	543521.9	520320.6	457601.9	363832.7	256720.4	163070.4	97496.8	52439.4
-7.5°	285620.7	363832.7	418788.8	437499.9	418788.8	363832.7	285620.7	198528.6	128318.6	76937.5	43230.0
-10°	198528.6	256720.4	300255.5	315806.2	300255.5	256720.4	198528.6	141386.7	93889.7	54869.6	31245.2
-12.5°	128318.6	163070.4	188126.3	197633.5	188126.3	163070.4	128318.6	93889.7	58905.7	38252.0	21137.5
-15°	76937.5	97496.8	110441.5	114869.8	110441.5	97496.8	76937.5	54869.6	38252.0	23452.5	11556.3
-17.5°	43230.0	52439.4	58168.7	60115.4	58168.7	52439.4	43230.0	31245.2	21137.5	11556.3	7136.8
-20°	21795.4	27298.7	30694.5	31843.1	30694.5	27298.7	21795.4	14388.1	10081.0	6441.0	5484.7



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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°	9529.7	11221.2	12259.0	12608.9	12259.0	11221.2	9529.7	7235.2	5745.6	5316.7	4990.0
-25°	5590.1	5786.0	5905.6	5945.9	5905.6	5786.0	5590.1	5322.8	5048.5	4901.7	4770.1
-27.5°	4963.5	5029.6	5069.9	5083.4	5069.9	5029.6	4963.5	4872.8	4760.2	4815.2	4877.8
-30°	4804.4	4779.9	4765.0	4760.0	4765.0	4779.9	4804.4	4838.1	4880.4	5043.1	5269.5
-32.5°	5050.5	4963.1	4910.1	4892.3	4910.1	4963.1	5050.5	5171.1	5323.1	5459.9	5568.3
-35°	5486.5	5445.1	5420.1	5411.7	5420.1	5445.1	5486.5	5543.8	5616.1	5676.8	5655.5
-37.5°	5666.8	5674.8	5679.7	5681.3	5679.7	5674.8	5666.8	5655.7	5641.6	5624.7	5563.2
-40°	5581.6	5605.1	5619.3	5624.1	5619.3	5605.1	5581.6	5549.0	5507.5	5457.7	5372.5
-42.5°	5376.4	5412.3	5433.9	5441.1	5433.9	5412.3	5376.4	5326.7	5263.4	5187.2	4951.4
-45°	4853.1	5010.6	5105.6	5137.3	5105.6	5010.6	4853.1	4634.3	4355.7	4019.3	3617.3
-47.5°	3374.2	3544.8	3647.6	3681.9	3647.6	3544.8	3374.2	3137.1	2834.7	2469.1	2042.3
-50°	1921.1	1944.5	1958.7	1963.4	1958.7	1944.5	1921.1	1888.4	1846.7	1796.3	1737.3
-52.5°	1692.1	1699.5	1703.9	1705.4	1703.9	1699.5	1692.1	1681.9	1668.8	1653.0	1634.5
-55°	1608.2	1613.1	1616.1	1617.1	1616.1	1613.1	1608.2	1601.2	1592.4	1581.7	1569.1
-57.5°	1526.7	1540.6	1549.0	1551.8	1549.0	1540.6	1526.7	1507.4	1482.6	1452.5	1417.3
-60°	1324.9	1339.3	1348.0	1350.9	1348.0	1339.3	1324.9	1304.7	1278.9	1247.6	1210.9
-62.5°	1095.3	1109.3	1117.8	1120.6	1117.8	1109.3	1095.3	1075.7	1050.6	1020.1	984.3
-65°	850.4	862.5	869.9	872.3	869.9	862.5	850.4	833.4	811.6	785.2	754.1
-67.5°	616.0	625.0	630.4	632.2	630.4	625.0	616.0	603.5	587.4	567.9	545.0
-70°	420.0	427.1	431.5	432.9	431.5	427.1	420.0	409.9	397.1	381.5	363.1
-72.5°	243.3	247.9	250.7	251.6	250.7	247.9	243.3	236.9	228.7	218.7	206.9
-75°	114.2	116.1	117.2	117.6	117.2	116.1	114.2	111.5	108.1	104.0	99.1
-77.5°	51.4	51.9	52.2	52.3	52.2	51.9	51.4	50.8	49.9	48.9	47.7
-80°	32.3	32.5	32.7	32.7	32.7	32.5	32.3	32.0	31.6	31.1	30.6
-82.5°	20.9	21.1	21.2	21.2	21.2	21.1	20.9	20.8	20.5	20.2	19.8
-85°	11.3	11.4	11.4	11.4	11.4	11.4	11.3	11.3	11.2	11.1	10.9
-87.5°	6.4	6.5	6.5	6.5	6.5	6.5	6.4	6.4	6.3	6.3	6.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.1	6.0	5.9	5.8	5.6	5.5	5.3	5.2	5.0	4.8	4.6
85°	10.8	10.7	10.5	10.3	10.1	9.9	9.6	9.4	9.1	8.8	8.5
82.5°	19.4	19.0	18.4	17.9	17.2	16.6	15.9	15.1	14.3	13.4	12.6
80°	29.9	29.2	28.4	27.5	26.5	25.4	24.3	23.1	21.9	20.6	19.4
77.5°	46.3	44.7	43.0	41.1	39.0	36.8	34.4	32.2	30.6	28.9	27.2
75°	93.5	87.2	80.2	72.5	64.1	55.1	50.3	47.2	44.0	40.5	37.0
72.5°	193.4	178.2	161.3	142.8	122.7	109.5	98.3	86.3	73.7	60.4	50.5
70°	342.0	318.3	292.0	263.2	237.1	212.2	185.7	157.5	127.7	107.3	91.4
67.5°	518.7	489.1	456.3	421.5	386.1	348.0	307.4	264.2	227.3	192.0	155.1
65°	718.5	678.5	634.2	593.6	550.0	503.2	453.2	403.2	352.4	299.1	245.6
62.5°	943.4	897.3	847.2	793.4	735.1	672.5	610.3	551.6	489.9	425.9	364.5
60°	1168.9	1121.7	1065.6	1004.2	937.7	866.7	793.4	715.8	634.2	563.0	489.1
57.5°	1377.0	1329.0	1271.8	1209.3	1141.8	1065.6	982.8	895.2	805.6	712.6	618.6
55°	1554.8	1511.6	1457.1	1397.7	1331.0	1252.4	1168.9	1077.7	978.0	874.0	769.3
52.5°	1614.3	1596.8	1577.5	1556.6	1496.9	1422.6	1342.8	1247.6	1147.9	1038.0	921.6
50°	1693.3	1667.7	1639.4	1610.9	1586.4	1560.4	1493.3	1404.0	1304.7	1193.2	1074.3
47.5°	1902.4	1821.1	1731.8	1681.3	1645.7	1610.2	1580.6	1544.6	1444.7	1339.3	1216.1
45°	3091.5	2506.1	1948.5	1844.2	1732.4	1674.0	1631.1	1594.2	1559.6	1465.2	1350.9
42.5°	4469.7	3934.6	3288.9	2542.1	1930.4	1803.3	1693.1	1645.3	1601.1	1563.0	1465.2
40°	5263.9	5143.5	4537.2	3858.7	3036.3	2132.7	1846.4	1702.8	1650.0	1601.1	1559.6
37.5°	5492.5	5396.8	5255.6	4977.6	4204.8	3337.0	2329.3	1860.9	1702.8	1645.3	1594.2
35°	5631.7	5564.3	5473.1	5332.0	5160.0	4379.7	3437.9	2329.3	1846.4	1693.1	1631.1
32.5°	5679.5	5651.3	5613.2	5508.9	5370.6	5178.8	4379.7	3337.0	2132.7	1803.3	1674.0
30°	5469.0	5612.3	5663.2	5628.5	5520.9	5370.6	5160.0	4204.8	3036.3	1930.4	1732.4
27.5°	5108.0	5404.7	5573.0	5667.3	5628.5	5508.9	5332.0	4977.6	3858.7	2542.1	1844.2
25°	4845.1	5025.7	5365.0	5573.0	5663.2	5613.2	5473.1	5255.6	4537.2	3288.9	1948.5
22.5°	4791.8	4834.1	5025.7	5404.7	5612.3	5651.3	5564.3	5396.8	5143.5	3934.6	2506.1
20°	5019.9	4791.8	4845.1	5108.0	5469.0	5679.5	5631.7	5492.5	5263.9	4469.7	3091.5
17.5°	5484.7	4990.0	4770.1	4877.8	5269.5	5568.3	5655.5	5563.2	5372.5	4951.4	3617.3
15°	6441.0	5316.7	4901.7	4815.2	5043.1	5459.9	5676.8	5624.7	5457.7	5187.2	4019.3
12.5°	10081.0	5745.6	5048.5	4760.2	4880.4	5323.1	5616.1	5641.6	5507.5	5263.4	4355.7
10°	14388.1	7235.2	5322.8	4872.8	4838.1	5171.1	5543.8	5655.7	5549.0	5326.7	4634.3
7.5°	21795.4	9529.7	5590.1	4963.5	4804.4	5050.5	5486.5	5666.8	5581.6	5376.4	4853.1
5°	27298.7	11221.2	5786.0	5029.6	4779.9	4963.1	5445.1	5674.8	5605.1	5412.3	5010.6
2.5°	30694.5	12259.0	5905.6	5069.9	4765.0	4910.1	5420.1	5679.7	5619.3	5433.9	5105.6
0°	31843.1	12608.9	5945.9	5083.4	4760.0	4892.3	5411.7	5681.3	5624.1	5441.1	5137.3
-2.5°	30694.5	12259.0	5905.6	5069.9	4765.0	4910.1	5420.1	5679.7	5619.3	5433.9	5105.6
-5°	27298.7	11221.2	5786.0	5029.6	4779.9	4963.1	5445.1	5674.8	5605.1	5412.3	5010.6
-7.5°	21795.4	9529.7	5590.1	4963.5	4804.4	5050.5	5486.5	5666.8	5581.6	5376.4	4853.1
-10°	14388.1	7235.2	5322.8	4872.8	4838.1	5171.1	5543.8	5655.7	5549.0	5326.7	4634.3
-12.5°	10081.0	5745.6	5048.5	4760.2	4880.4	5323.1	5616.1	5641.6	5507.5	5263.4	4355.7
-15°	6441.0	5316.7	4901.7	4815.2	5043.1	5459.9	5676.8	5624.7	5457.7	5187.2	4019.3
-17.5°	5484.7	4990.0	4770.1	4877.8	5269.5	5568.3	5655.5	5563.2	5372.5	4951.4	3617.3
-20°	5019.9	4791.8	4845.1	5108.0	5469.0	5679.5	5631.7	5492.5	5263.9	4469.7	3091.5



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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°	4791.8	4834.1	5025.7	5404.7	5612.3	5651.3	5564.3	5396.8	5143.5	3934.6	2506.1
-25°	4845.1	5025.7	5365.0	5573.0	5663.2	5613.2	5473.1	5255.6	4537.2	3288.9	1948.5
-27.5°	5108.0	5404.7	5573.0	5667.3	5628.5	5508.9	5332.0	4977.6	3858.7	2542.1	1844.2
-30°	5469.0	5612.3	5663.2	5628.5	5520.9	5370.6	5160.0	4204.8	3036.3	1930.4	1732.4
-32.5°	5679.5	5651.3	5613.2	5508.9	5370.6	5178.8	4379.7	3337.0	2132.7	1803.3	1674.0
-35°	5631.7	5564.3	5473.1	5332.0	5160.0	4379.7	3437.9	2329.3	1846.4	1693.1	1631.1
-37.5°	5492.5	5396.8	5255.6	4977.6	4204.8	3337.0	2329.3	1860.9	1702.8	1645.3	1594.2
-40°	5263.9	5143.5	4537.2	3858.7	3036.3	2132.7	1846.4	1702.8	1650.0	1601.1	1559.6
-42.5°	4469.7	3934.6	3288.9	2542.1	1930.4	1803.3	1693.1	1645.3	1601.1	1563.0	1465.2
-45°	3091.5	2506.1	1948.5	1844.2	1732.4	1674.0	1631.1	1594.2	1559.6	1465.2	1350.9
-47.5°	1902.4	1821.1	1731.8	1681.3	1645.7	1610.2	1580.6	1544.6	1444.7	1339.3	1216.1
-50°	1693.3	1667.7	1639.4	1610.9	1586.4	1560.4	1493.3	1404.0	1304.7	1193.2	1074.3
-52.5°	1614.3	1596.8	1577.5	1556.6	1496.9	1422.6	1342.8	1247.6	1147.9	1038.0	921.6
-55°	1554.8	1511.6	1457.1	1397.7	1331.0	1252.4	1168.9	1077.7	978.0	874.0	769.3
-57.5°	1377.0	1329.0	1271.8	1209.3	1141.8	1065.6	982.8	895.2	805.6	712.6	618.6
-60°	1168.9	1121.7	1065.6	1004.2	937.7	866.7	793.4	715.8	634.2	563.0	489.1
-62.5°	943.4	897.3	847.2	793.4	735.1	672.5	610.3	551.6	489.9	425.9	364.5
-65°	718.5	678.5	634.2	593.6	550.0	503.2	453.2	403.2	352.4	299.1	245.6
-67.5°	518.7	489.1	456.3	421.5	386.1	348.0	307.4	264.2	227.3	192.0	155.1
-70°	342.0	318.3	292.0	263.2	237.1	212.2	185.7	157.5	127.7	107.3	91.4
-72.5°	193.4	178.2	161.3	142.8	122.7	109.5	98.3	86.3	73.7	60.4	50.5
-75°	93.5	87.2	80.2	72.5	64.1	55.1	50.3	47.2	44.0	40.5	37.0
-77.5°	46.3	44.7	43.0	41.1	39.0	36.8	34.4	32.2	30.6	28.9	27.2
-80°	29.9	29.2	28.4	27.5	26.5	25.4	24.3	23.1	21.9	20.6	19.4
-82.5°	19.4	19.0	18.4	17.9	17.2	16.6	15.9	15.1	14.3	13.4	12.6
-85°	10.8	10.7	10.5	10.3	10.1	9.9	9.6	9.4	9.1	8.8	8.5
-87.5°	6.1	6.0	5.9	5.8	5.6	5.5	5.3	5.2	5.0	4.8	4.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P701469 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-80-1S-HEG-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	4.2	4.0	3.7	3.5	3.2	3.0	2.7	2.5	2.2	2.0
85°	8.2	7.9	7.6	7.2	6.9	6.5	6.0	5.5	5.0	4.4	3.9
82.5°	11.6	11.0	10.5	10.0	9.5	8.9	8.4	7.8	7.2	6.6	5.8
80°	18.2	16.9	15.6	14.2	12.8	11.4	10.6	9.8	9.1	8.3	7.5
77.5°	25.4	23.5	21.5	19.8	18.0	16.2	14.3	12.4	10.9	9.9	8.9
75°	33.3	30.8	28.4	26.0	23.5	20.9	18.7	16.4	14.1	11.7	10.3
72.5°	46.2	41.7	37.0	32.4	29.5	26.5	23.4	20.4	17.7	14.9	12.1
70°	74.8	57.5	48.5	43.0	37.3	32.0	28.5	24.9	21.3	18.1	14.9
67.5°	117.2	97.7	77.7	57.0	47.3	40.8	34.1	29.5	25.4	21.3	17.7
65°	202.8	158.5	115.2	92.2	68.6	49.9	42.5	35.0	29.5	24.9	20.4
62.5°	300.7	239.1	188.6	136.8	101.0	74.5	50.8	42.5	34.1	28.5	23.4
60°	414.2	342.0	267.6	206.9	148.9	104.0	74.5	49.9	40.8	32.0	26.5
57.5°	535.3	449.2	367.1	284.2	213.0	148.9	101.0	68.6	47.3	37.3	29.5
55°	660.9	563.2	467.7	375.4	284.2	206.9	136.8	92.2	57.0	43.0	32.4
52.5°	803.6	683.6	572.6	467.7	367.1	267.6	188.6	115.2	77.7	48.5	37.0
50°	945.6	815.1	683.6	563.2	449.2	342.0	239.1	158.5	97.7	57.5	41.7
47.5°	1086.5	945.6	803.6	660.9	535.3	414.2	300.7	202.8	117.2	74.8	46.2
45°	1216.1	1074.3	921.6	769.3	618.6	489.1	364.5	245.6	155.1	91.4	50.5
42.5°	1339.3	1193.2	1038.0	874.0	712.6	563.0	425.9	299.1	192.0	107.3	60.4
40°	1444.7	1304.7	1147.9	978.0	805.6	634.2	489.9	352.4	227.3	127.7	73.7
37.5°	1544.6	1404.0	1247.6	1077.7	895.2	715.8	551.6	403.2	264.2	157.5	86.3
35°	1580.6	1493.3	1342.8	1168.9	982.8	793.4	610.3	453.2	307.4	185.7	98.3
32.5°	1610.2	1560.4	1422.6	1252.4	1065.6	866.7	672.5	503.2	348.0	212.2	109.5
30°	1645.7	1586.4	1496.9	1331.0	1141.8	937.7	735.1	550.0	386.1	237.1	122.7
27.5°	1681.3	1610.9	1556.6	1397.7	1209.3	1004.2	793.4	593.6	421.5	263.2	142.8
25°	1731.8	1639.4	1577.5	1457.1	1271.8	1065.6	847.2	634.2	456.3	292.0	161.3
22.5°	1821.1	1667.7	1596.8	1511.6	1329.0	1121.7	897.3	678.5	489.1	318.3	178.2
20°	1902.4	1693.3	1614.3	1554.8	1377.0	1168.9	943.4	718.5	518.7	342.0	193.4
17.5°	2042.3	1737.3	1634.5	1569.1	1417.3	1210.9	984.3	754.1	545.0	363.1	206.9
15°	2469.1	1796.3	1653.0	1581.7	1452.5	1247.6	1020.1	785.2	567.9	381.5	218.7
12.5°	2834.7	1846.7	1668.8	1592.4	1482.6	1278.9	1050.6	811.6	587.4	397.1	228.7
10°	3137.1	1888.4	1681.9	1601.2	1507.4	1304.7	1075.7	833.4	603.5	409.9	236.9
7.5°	3374.2	1921.1	1692.1	1608.2	1526.7	1324.9	1095.3	850.4	616.0	420.0	243.3
5°	3544.8	1944.5	1699.5	1613.1	1540.6	1339.3	1109.3	862.5	625.0	427.1	247.9
2.5°	3647.6	1958.7	1703.9	1616.1	1549.0	1348.0	1117.8	869.9	630.4	431.5	250.7
0°	3681.9	1963.4	1705.4	1617.1	1551.8	1350.9	1120.6	872.3	632.2	432.9	251.6
-2.5°	3647.6	1958.7	1703.9	1616.1	1549.0	1348.0	1117.8	869.9	630.4	431.5	250.7
-5°	3544.8	1944.5	1699.5	1613.1	1540.6	1339.3	1109.3	862.5	625.0	427.1	247.9
-7.5°	3374.2	1921.1	1692.1	1608.2	1526.7	1324.9	1095.3	850.4	616.0	420.0	243.3
-10°	3137.1	1888.4	1681.9	1601.2	1507.4	1304.7	1075.7	833.4	603.5	409.9	236.9
-12.5°	2834.7	1846.7	1668.8	1592.4	1482.6	1278.9	1050.6	811.6	587.4	397.1	228.7
-15°	2469.1	1796.3	1653.0	1581.7	1452.5	1247.6	1020.1	785.2	567.9	381.5	218.7
-17.5°	2042.3	1737.3	1634.5	1569.1	1417.3	1210.9	984.3	754.1	545.0	363.1	206.9
-20°	1902.4	1693.3	1614.3	1554.8	1377.0	1168.9	943.4	718.5	518.7	342.0	193.4



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1821.1	1667.7	1596.8	1511.6	1329.0	1121.7	897.3	678.5	489.1	318.3	178.2
-25°	1731.8	1639.4	1577.5	1457.1	1271.8	1065.6	847.2	634.2	456.3	292.0	161.3
-27.5°	1681.3	1610.9	1556.6	1397.7	1209.3	1004.2	793.4	593.6	421.5	263.2	142.8
-30°	1645.7	1586.4	1496.9	1331.0	1141.8	937.7	735.1	550.0	386.1	237.1	122.7
-32.5°	1610.2	1560.4	1422.6	1252.4	1065.6	866.7	672.5	503.2	348.0	212.2	109.5
-35°	1580.6	1493.3	1342.8	1168.9	982.8	793.4	610.3	453.2	307.4	185.7	98.3
-37.5°	1544.6	1404.0	1247.6	1077.7	895.2	715.8	551.6	403.2	264.2	157.5	86.3
-40°	1444.7	1304.7	1147.9	978.0	805.6	634.2	489.9	352.4	227.3	127.7	73.7
-42.5°	1339.3	1193.2	1038.0	874.0	712.6	563.0	425.9	299.1	192.0	107.3	60.4
-45°	1216.1	1074.3	921.6	769.3	618.6	489.1	364.5	245.6	155.1	91.4	50.5
-47.5°	1086.5	945.6	803.6	660.9	535.3	414.2	300.7	202.8	117.2	74.8	46.2
-50°	945.6	815.1	683.6	563.2	449.2	342.0	239.1	158.5	97.7	57.5	41.7
-52.5°	803.6	683.6	572.6	467.7	367.1	267.6	188.6	115.2	77.7	48.5	37.0
-55°	660.9	563.2	467.7	375.4	284.2	206.9	136.8	92.2	57.0	43.0	32.4
-57.5°	535.3	449.2	367.1	284.2	213.0	148.9	101.0	68.6	47.3	37.3	29.5
-60°	414.2	342.0	267.6	206.9	148.9	104.0	74.5	49.9	40.8	32.0	26.5
-62.5°	300.7	239.1	188.6	136.8	101.0	74.5	50.8	42.5	34.1	28.5	23.4
-65°	202.8	158.5	115.2	92.2	68.6	49.9	42.5	35.0	29.5	24.9	20.4
-67.5°	117.2	97.7	77.7	57.0	47.3	40.8	34.1	29.5	25.4	21.3	17.7
-70°	74.8	57.5	48.5	43.0	37.3	32.0	28.5	24.9	21.3	18.1	14.9
-72.5°	46.2	41.7	37.0	32.4	29.5	26.5	23.4	20.4	17.7	14.9	12.1
-75°	33.3	30.8	28.4	26.0	23.5	20.9	18.7	16.4	14.1	11.7	10.3
-77.5°	25.4	23.5	21.5	19.8	18.0	16.2	14.3	12.4	10.9	9.9	8.9
-80°	18.2	16.9	15.6	14.2	12.8	11.4	10.6	9.8	9.1	8.3	7.5
-82.5°	11.6	11.0	10.5	10.0	9.5	8.9	8.4	7.8	7.2	6.6	5.8
-85°	8.2	7.9	7.6	7.2	6.9	6.5	6.0	5.5	5.0	4.4	3.9
-87.5°	4.4	4.2	4.0	3.7	3.5	3.2	3.0	2.7	2.5	2.2	2.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	1.4	1.1	0.8	0.6	0.3	0.0
85°	3.4	2.8	2.3	1.7	1.1	0.6	0.0
82.5°	5.0	4.2	3.4	2.5	1.7	0.8	0.0
80°	6.6	5.6	4.5	3.4	2.3	1.1	0.0
77.5°	7.9	6.9	5.6	4.2	2.8	1.4	0.0
75°	9.1	7.9	6.6	5.0	3.4	1.7	0.0
72.5°	10.3	8.9	7.5	5.8	3.9	2.0	0.0
70°	11.7	9.9	8.3	6.6	4.4	2.2	0.0
67.5°	14.1	10.9	9.1	7.2	5.0	2.5	0.0
65°	16.4	12.4	9.8	7.8	5.5	2.7	0.0
62.5°	18.7	14.3	10.6	8.4	6.0	3.0	0.0
60°	20.9	16.2	11.4	8.9	6.5	3.2	0.0
57.5°	23.5	18.0	12.8	9.5	6.9	3.5	0.0
55°	26.0	19.8	14.2	10.0	7.2	3.7	0.0
52.5°	28.4	21.5	15.6	10.5	7.6	4.0	0.0
50°	30.8	23.5	16.9	11.0	7.9	4.2	0.0
47.5°	33.3	25.4	18.2	11.6	8.2	4.4	0.0
45°	37.0	27.2	19.4	12.6	8.5	4.6	0.0
42.5°	40.5	28.9	20.6	13.4	8.8	4.8	0.0
40°	44.0	30.6	21.9	14.3	9.1	5.0	0.0
37.5°	47.2	32.2	23.1	15.1	9.4	5.2	0.0
35°	50.3	34.4	24.3	15.9	9.6	5.3	0.0
32.5°	55.1	36.8	25.4	16.6	9.9	5.5	0.0
30°	64.1	39.0	26.5	17.2	10.1	5.6	0.0
27.5°	72.5	41.1	27.5	17.9	10.3	5.8	0.0
25°	80.2	43.0	28.4	18.4	10.5	5.9	0.0
22.5°	87.2	44.7	29.2	19.0	10.7	6.0	0.0
20°	93.5	46.3	29.9	19.4	10.8	6.1	0.0
17.5°	99.1	47.7	30.6	19.8	10.9	6.2	0.0
15°	104.0	48.9	31.1	20.2	11.1	6.3	0.0
12.5°	108.1	49.9	31.6	20.5	11.2	6.3	0.0
10°	111.5	50.8	32.0	20.8	11.3	6.4	0.0
7.5°	114.2	51.4	32.3	20.9	11.3	6.4	0.0
5°	116.1	51.9	32.5	21.1	11.4	6.5	0.0
2.5°	117.2	52.2	32.7	21.2	11.4	6.5	0.0
0°	117.6	52.3	32.7	21.2	11.4	6.5	0.0
-2.5°	117.2	52.2	32.7	21.2	11.4	6.5	0.0
-5°	116.1	51.9	32.5	21.1	11.4	6.5	0.0
-7.5°	114.2	51.4	32.3	20.9	11.3	6.4	0.0
-10°	111.5	50.8	32.0	20.8	11.3	6.4	0.0
-12.5°	108.1	49.9	31.6	20.5	11.2	6.3	0.0
-15°	104.0	48.9	31.1	20.2	11.1	6.3	0.0
-17.5°	99.1	47.7	30.6	19.8	10.9	6.2	0.0
-20°	93.5	46.3	29.9	19.4	10.8	6.1	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	87.2	44.7	29.2	19.0	10.7	6.0	0.0
-25°	80.2	43.0	28.4	18.4	10.5	5.9	0.0
-27.5°	72.5	41.1	27.5	17.9	10.3	5.8	0.0
-30°	64.1	39.0	26.5	17.2	10.1	5.6	0.0
-32.5°	55.1	36.8	25.4	16.6	9.9	5.5	0.0
-35°	50.3	34.4	24.3	15.9	9.6	5.3	0.0
-37.5°	47.2	32.2	23.1	15.1	9.4	5.2	0.0
-40°	44.0	30.6	21.9	14.3	9.1	5.0	0.0
-42.5°	40.5	28.9	20.6	13.4	8.8	4.8	0.0
-45°	37.0	27.2	19.4	12.6	8.5	4.6	0.0
-47.5°	33.3	25.4	18.2	11.6	8.2	4.4	0.0
-50°	30.8	23.5	16.9	11.0	7.9	4.2	0.0
-52.5°	28.4	21.5	15.6	10.5	7.6	4.0	0.0
-55°	26.0	19.8	14.2	10.0	7.2	3.7	0.0
-57.5°	23.5	18.0	12.8	9.5	6.9	3.5	0.0
-60°	20.9	16.2	11.4	8.9	6.5	3.2	0.0
-62.5°	18.7	14.3	10.6	8.4	6.0	3.0	0.0
-65°	16.4	12.4	9.8	7.8	5.5	2.7	0.0
-67.5°	14.1	10.9	9.1	7.2	5.0	2.5	0.0
-70°	11.7	9.9	8.3	6.6	4.4	2.2	0.0
-72.5°	10.3	8.9	7.5	5.8	3.9	2.0	0.0
-75°	9.1	7.9	6.6	5.0	3.4	1.7	0.0
-77.5°	7.9	6.9	5.6	4.2	2.8	1.4	0.0
-80°	6.6	5.6	4.5	3.4	2.3	1.1	0.0
-82.5°	5.0	4.2	3.4	2.5	1.7	0.8	0.0
-85°	3.4	2.8	2.3	1.7	1.1	0.6	0.0
-87.5°	1.7	1.4	1.1	0.8	0.6	0.3	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(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

