

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-08-0640L-40-70-4S-HEG-S**

Issue Date: 8/15/2023

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 (G2-2301-906-4)
Test Lab: INNOVATION CENTER
Issue Date: 8/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0640L-40-70-4S-HEG-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 4S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

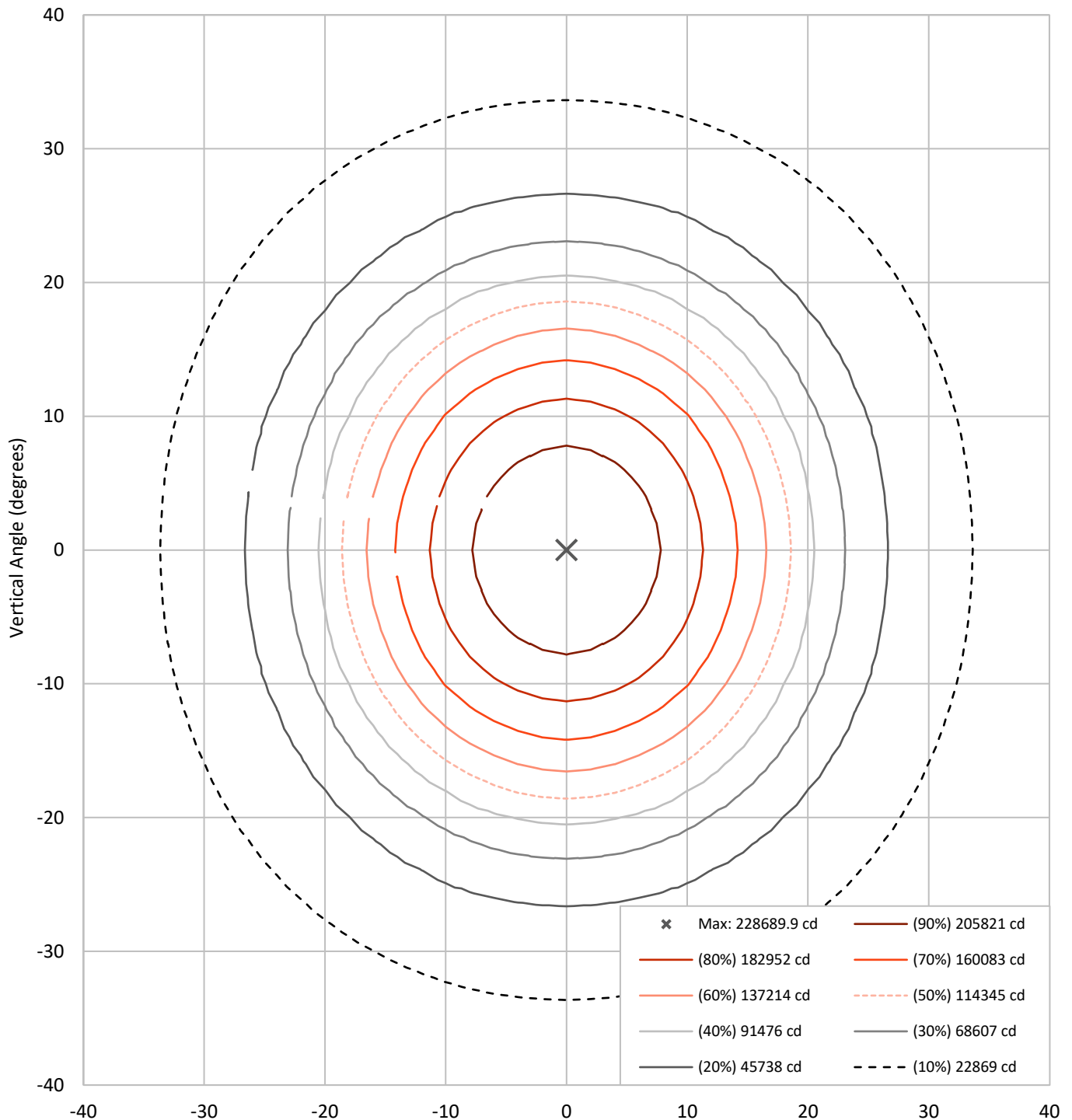
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	105611.2 lumens	Max Intensity:	228689.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	160.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	37.2°H x 37.2°V	Field Angle (10%):	67.2°H x 67.2°V
Beam Lumens:	54980.2 lumens	Field Lumens:	92357.6 lumens
Beam Efficiency:	52.1%	Field Efficiency:	87.5%

Input Watts (W): 658
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





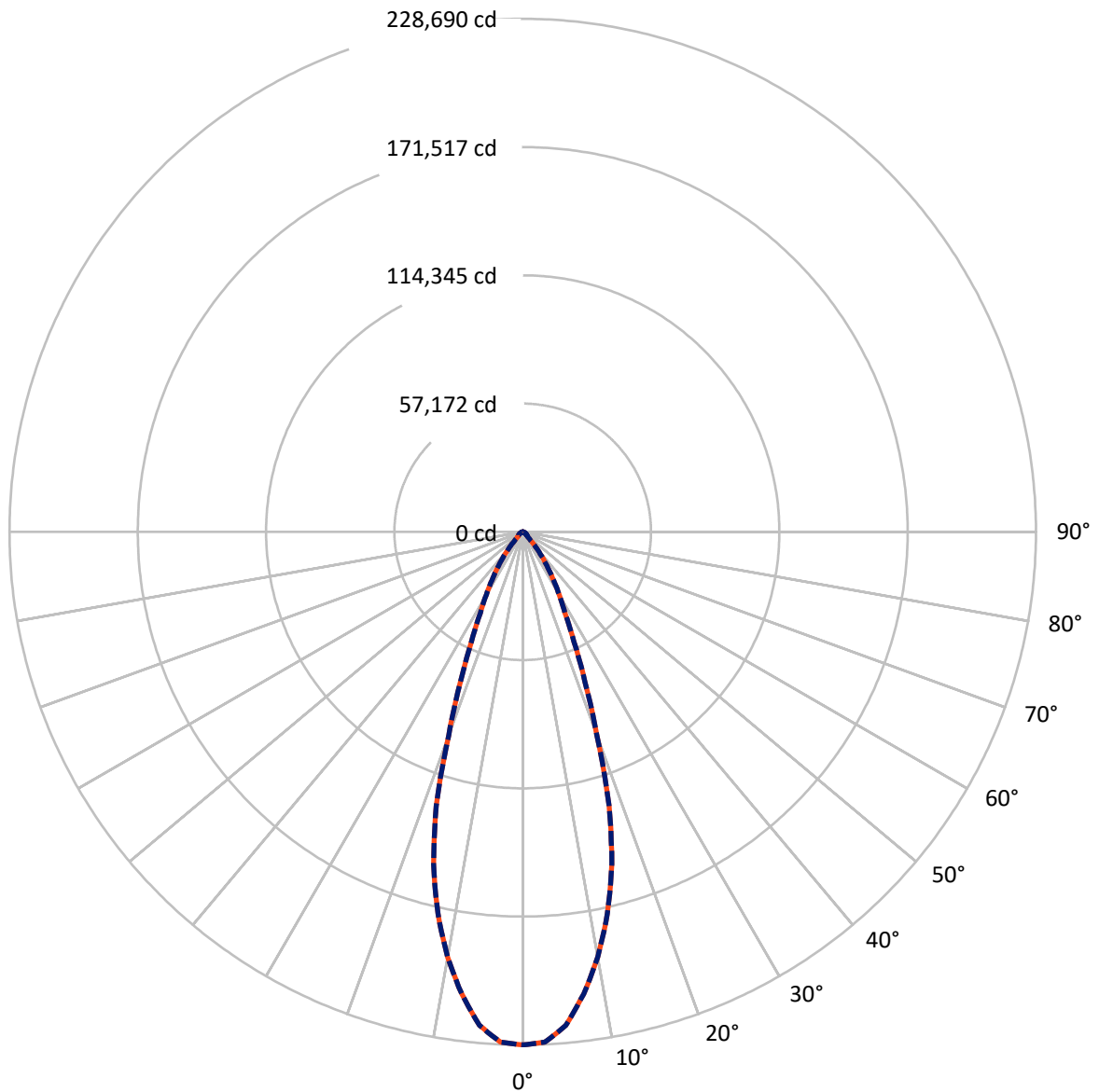
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Lumen Table

90															90				
80	0.1	0.8		3.1		7.5		9.8		7.5		3.1		0.8		0.1			
70															70				
60	0.4	0.5	1.9	5.3	11.0	17.8	23.9	27.2	27.2	23.9	17.8	11.0	5.3	1.9	0.5	0.4			
50		1.4	6.2	17.0	31.2	43.9	53.2	58.3	58.3	53.2	43.9	31.2	17.0	6.2	1.4				
40	1.1	3.3	13.9	31.7	49.2	68.3	98.1	129.4	129.4	98.1	68.3	49.2	31.7	13.9	3.3	1.1			
30		5.9	22.1	42.6	73.9	198.7	420.4	583.1	583.1	420.4	198.7	73.9	42.6	22.1	5.9				
20	2.2	8.6	28.0	53.5	180.9	565.2	1105.3	1643.5	1643.5	1105.3	565.2	180.9	53.5	28.0	8.6	2.2			
10		10.8	31.8	72.7	360.1	1040.7	2577.3	4230.8	4230.8	2577.3	1040.7	360.1	72.7	31.8	10.8				
0	2.7	12.0	33.9	93.7	484.6	1504.9	4111.3	6192.8	6192.8	4111.3	1504.9	484.6	93.7	33.9	12.0	2.7			
-10		12.0	33.9	93.7	484.6	1504.9	4111.3	6192.8	6192.8	4111.3	1504.9	484.6	93.7	33.9	12.0				
-20	2.2	10.8	31.8	72.7	360.1	1040.7	2577.3	4230.8	4230.8	2577.3	1040.7	360.1	72.7	31.8	10.8	2.2			
-30		8.6	28.0	53.5	180.9	565.2	1105.3	1643.5	1643.5	1105.3	565.2	180.9	53.5	28.0	8.6				
-40	1.1	5.9	22.1	42.6	73.9	198.7	420.4	583.1	583.1	420.4	198.7	73.9	42.6	22.1	5.9	1.1			
-50		3.3	13.9	31.7	49.2	68.3	98.1	129.4	129.4	98.1	68.3	49.2	31.7	13.9	3.3				
-60	0.4	1.4	6.2	17.0	31.2	43.9	53.2	58.3	58.3	53.2	43.9	31.2	17.0	6.2	1.4	0.4			
-70		0.5	1.9	5.3	11.0	17.8	23.9	27.2	27.2	23.9	17.8	11.0	5.3	1.9	0.5				
-80															-80				
-90	0.1	0.8		3.1		7.5		9.8		7.5		3.1		0.8		0.1			
-90	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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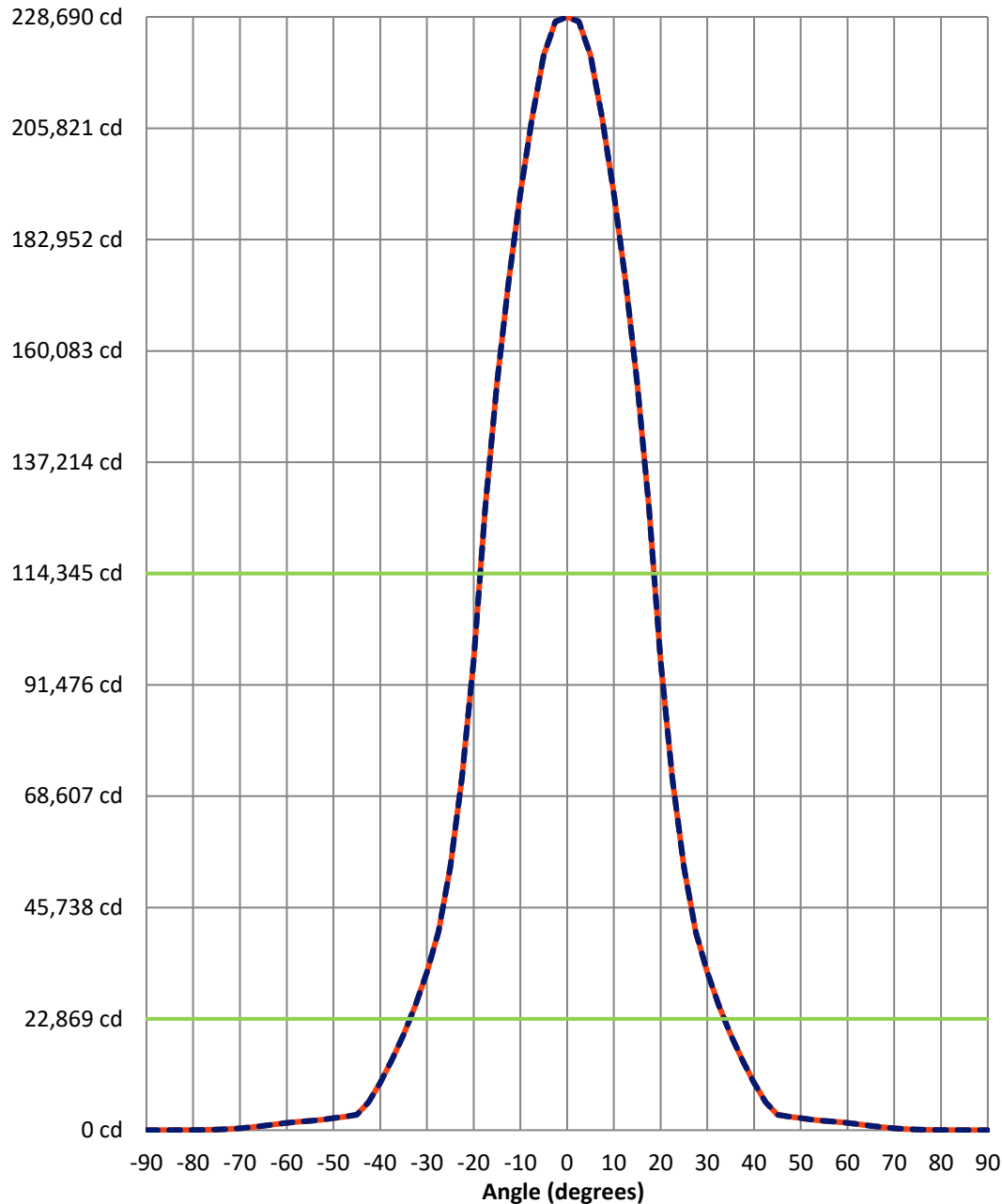
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 37.2°
 V Angle: 37.2°
 Lumens: 54980.2
 Efficiency: 52.1%

Field:
 H Angle: 67.2°
 V Angle: 67.2°
 Lumens: 92357.6
 Efficiency: 87.5%

Spill:
 Lumens: 13253.6
 Efficiency: 12.5%

- 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	0.2	0.5	0.7	0.9	1.1	1.4	1.6	1.8	2.0	2.2
85°	0.0	0.5	0.9	1.4	1.8	2.3	2.7	3.2	3.6	4.1	4.5
82.5°	0.0	0.7	1.4	2.1	2.8	3.4	4.1	4.8	5.4	6.1	6.7
80°	0.0	0.9	1.8	2.8	3.7	4.6	5.5	6.3	7.2	8.0	8.9
77.5°	0.0	1.1	2.3	3.4	4.6	5.7	6.8	7.9	8.9	10.0	11.4
75°	0.0	1.4	2.7	4.1	5.5	6.8	8.1	9.4	10.8	12.9	15.0
72.5°	0.0	1.6	3.2	4.8	6.3	7.9	9.4	11.2	13.7	16.2	18.6
70°	0.0	1.8	3.6	5.4	7.2	8.9	10.8	13.7	16.5	19.4	22.2
67.5°	0.0	2.0	4.1	6.1	8.0	10.0	12.9	16.2	19.4	22.5	25.7
65°	0.0	2.2	4.5	6.7	8.9	11.4	15.0	18.6	22.2	25.7	31.4
62.5°	0.0	2.4	4.9	7.3	9.7	13.1	17.1	21.0	24.9	30.1	42.2
60°	0.0	2.6	5.3	7.9	10.5	14.8	19.1	23.3	27.6	39.7	52.9
57.5°	0.0	2.8	5.7	8.5	11.7	16.4	21.0	25.6	34.7	49.1	73.4
55°	0.0	3.0	6.1	9.0	13.0	18.0	23.0	27.9	42.9	61.2	98.2
52.5°	0.0	3.2	6.4	9.6	14.3	19.6	24.8	34.3	50.9	82.9	122.3
50°	0.0	3.4	6.8	10.1	15.5	21.1	26.6	41.0	61.8	104.0	153.8
47.5°	0.0	3.6	7.1	10.7	16.6	22.5	28.9	47.5	79.9	124.3	185.2
45°	0.0	3.7	7.4	11.5	17.7	23.9	34.3	53.8	97.3	151.4	215.5
42.5°	0.0	3.9	7.8	12.3	18.8	25.2	39.4	64.8	114.0	177.6	262.2
40°	0.0	4.1	8.1	13.1	19.8	26.5	44.3	78.7	132.0	202.6	309.7
37.5°	0.0	4.2	8.3	13.8	20.8	27.7	49.0	92.0	153.1	231.1	355.0
35°	0.0	4.3	8.6	14.5	21.7	30.5	53.4	104.5	173.1	269.5	405.1
32.5°	0.0	4.5	8.9	15.1	22.5	33.9	59.3	116.3	191.9	305.8	463.3
30°	0.0	4.6	9.1	15.7	23.3	37.2	68.7	128.4	209.5	339.8	517.9
27.5°	0.0	4.7	9.3	16.3	24.1	40.2	77.5	142.6	230.2	371.3	568.7
25°	0.0	4.8	9.5	16.8	24.8	42.9	85.5	155.8	255.9	408.7	615.9
22.5°	0.0	4.9	9.7	17.3	25.4	45.4	92.9	167.7	279.3	446.9	667.5
20°	0.0	5.0	9.9	17.7	26.0	47.7	99.5	178.5	300.5	481.4	714.1
17.5°	0.0	5.1	10.0	18.1	26.5	49.7	105.4	188.1	319.3	512.0	755.5
15°	0.0	5.1	10.1	18.4	26.9	51.4	110.5	196.4	335.6	538.7	791.7
12.5°	0.0	5.2	10.3	18.7	27.3	52.9	114.8	203.5	349.6	561.5	822.5
10°	0.0	5.2	10.3	18.9	27.6	54.1	118.4	209.4	361.0	580.2	847.8
7.5°	0.0	5.3	10.4	19.1	27.8	55.1	121.2	213.9	370.0	594.8	867.6
5°	0.0	5.3	10.5	19.2	28.0	55.8	123.2	217.2	376.4	605.2	881.7
2.5°	0.0	5.3	10.5	19.3	28.1	56.2	124.4	219.1	380.2	611.5	890.3
0°	0.0	5.3	10.5	19.3	28.1	56.2	124.4	219.1	380.2	611.5	890.3
-2.5°	0.0	5.3	10.5	19.3	28.1	56.2	124.4	219.1	380.2	611.5	890.3
-5°	0.0	5.3	10.5	19.2	28.0	55.8	123.2	217.2	376.4	605.2	881.7
-7.5°	0.0	5.3	10.4	19.1	27.8	55.1	121.2	213.9	370.0	594.8	867.6
-10°	0.0	5.2	10.3	18.9	27.6	54.1	118.4	209.4	361.0	580.2	847.8
-12.5°	0.0	5.2	10.3	18.7	27.3	52.9	114.8	203.5	349.6	561.5	822.5
-15°	0.0	5.1	10.1	18.4	26.9	51.4	110.5	196.4	335.6	538.7	791.7
-17.5°	0.0	5.1	10.0	18.1	26.5	49.7	105.4	188.1	319.3	512.0	755.5
-20°	0.0	5.0	9.9	17.7	26.0	47.7	99.5	178.5	300.5	481.4	714.1



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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	4.9	9.7	17.3	25.4	45.4	92.9	167.7	279.3	446.9	667.5
-25°	0.0	4.8	9.5	16.8	24.8	42.9	85.5	155.8	255.9	408.7	615.9
-27.5°	0.0	4.7	9.3	16.3	24.1	40.2	77.5	142.6	230.2	371.3	568.7
-30°	0.0	4.6	9.1	15.7	23.3	37.2	68.7	128.4	209.5	339.8	517.9
-32.5°	0.0	4.5	8.9	15.1	22.5	33.9	59.3	116.3	191.9	305.8	463.3
-35°	0.0	4.3	8.6	14.5	21.7	30.5	53.4	104.5	173.1	269.5	405.1
-37.5°	0.0	4.2	8.3	13.8	20.8	27.7	49.0	92.0	153.1	231.1	355.0
-40°	0.0	4.1	8.1	13.1	19.8	26.5	44.3	78.7	132.0	202.6	309.7
-42.5°	0.0	3.9	7.8	12.3	18.8	25.2	39.4	64.8	114.0	177.6	262.2
-45°	0.0	3.7	7.4	11.5	17.7	23.9	34.3	53.8	97.3	151.4	215.5
-47.5°	0.0	3.6	7.1	10.7	16.6	22.5	28.9	47.5	79.9	124.3	185.2
-50°	0.0	3.4	6.8	10.1	15.5	21.1	26.6	41.0	61.8	104.0	153.8
-52.5°	0.0	3.2	6.4	9.6	14.3	19.6	24.8	34.3	50.9	82.9	122.3
-55°	0.0	3.0	6.1	9.0	13.0	18.0	23.0	27.9	42.9	61.2	98.2
-57.5°	0.0	2.8	5.7	8.5	11.7	16.4	21.0	25.6	34.7	49.1	73.4
-60°	0.0	2.6	5.3	7.9	10.5	14.8	19.1	23.3	27.6	39.7	52.9
-62.5°	0.0	2.4	4.9	7.3	9.7	13.1	17.1	21.0	24.9	30.1	42.2
-65°	0.0	2.2	4.5	6.7	8.9	11.4	15.0	18.6	22.2	25.7	31.4
-67.5°	0.0	2.0	4.1	6.1	8.0	10.0	12.9	16.2	19.4	22.5	25.7
-70°	0.0	1.8	3.6	5.4	7.2	8.9	10.8	13.7	16.5	19.4	22.2
-72.5°	0.0	1.6	3.2	4.8	6.3	7.9	9.4	11.2	13.7	16.2	18.6
-75°	0.0	1.4	2.7	4.1	5.5	6.8	8.1	9.4	10.8	12.9	15.0
-77.5°	0.0	1.1	2.3	3.4	4.6	5.7	6.8	7.9	8.9	10.0	11.4
-80°	0.0	0.9	1.8	2.8	3.7	4.6	5.5	6.3	7.2	8.0	8.9
-82.5°	0.0	0.7	1.4	2.1	2.8	3.4	4.1	4.8	5.4	6.1	6.7
-85°	0.0	0.5	0.9	1.4	1.8	2.3	2.7	3.2	3.6	4.1	4.5
-87.5°	0.0	0.2	0.5	0.7	0.9	1.1	1.4	1.6	1.8	2.0	2.2
-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):

	-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°	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.7	3.9	4.1	4.2
85°	4.9	5.3	5.7	6.1	6.4	6.8	7.1	7.4	7.8	8.1	8.3
82.5°	7.3	7.9	8.5	9.0	9.6	10.1	10.7	11.5	12.3	13.1	13.8
80°	9.7	10.5	11.7	13.0	14.3	15.5	16.6	17.7	18.8	19.8	20.8
77.5°	13.1	14.8	16.4	18.0	19.6	21.1	22.5	23.9	25.2	26.5	27.7
75°	17.1	19.1	21.0	23.0	24.8	26.6	28.9	34.3	39.4	44.3	49.0
72.5°	21.0	23.3	25.6	27.9	34.3	41.0	47.5	53.8	64.8	78.7	92.0
70°	24.9	27.6	34.7	42.9	50.9	61.8	79.9	97.3	114.0	132.0	153.1
67.5°	30.1	39.7	49.1	61.2	82.9	104.0	124.3	151.4	177.6	202.6	231.1
65°	42.2	52.9	73.4	98.2	122.3	153.8	185.2	215.5	262.2	309.7	355.0
62.5°	54.2	79.6	107.4	138.4	175.2	210.9	263.6	320.5	375.3	447.9	519.8
60°	79.6	110.5	147.0	188.1	234.1	300.5	364.9	446.9	533.0	615.9	710.9
57.5°	107.4	147.0	192.4	248.9	322.8	400.5	500.7	597.7	707.2	815.4	921.9
55°	138.4	188.1	248.9	330.2	422.0	533.3	647.0	773.2	895.2	1025.6	1150.5
52.5°	175.2	234.1	322.8	422.0	544.2	673.5	813.1	954.9	1100.8	1239.8	1369.2
50°	210.9	300.5	400.5	533.3	673.5	826.5	985.0	1146.3	1298.6	1443.3	1563.6
47.5°	263.6	364.9	500.7	647.0	813.1	985.0	1161.5	1328.2	1488.2	1609.9	1723.5
45°	320.5	446.9	597.7	773.2	954.9	1146.3	1328.2	1503.2	1633.1	1752.9	1847.1
42.5°	375.3	533.0	707.2	895.2	1100.8	1298.6	1488.2	1633.1	1762.1	1865.8	1984.4
40°	447.9	615.9	815.4	1025.6	1239.8	1443.3	1609.9	1752.9	1865.8	1997.1	2137.9
37.5°	519.8	710.9	921.9	1150.5	1369.2	1563.6	1723.5	1847.1	1984.4	2137.9	2345.1
35°	588.1	801.2	1031.5	1267.0	1492.7	1665.2	1809.9	1946.6	2112.1	2326.4	2540.4
32.5°	660.5	886.6	1135.4	1375.3	1584.7	1755.0	1890.5	2061.0	2270.9	2506.4	2714.6
30°	733.3	975.1	1231.9	1477.4	1669.2	1825.9	1985.5	2179.5	2434.6	2662.6	2920.7
27.5°	801.2	1058.4	1319.4	1556.4	1744.6	1892.3	2080.4	2323.5	2577.1	2823.8	3137.3
25°	863.9	1135.4	1400.5	1624.0	1801.7	1968.7	2178.8	2457.9	2706.3	3013.9	4177.1
22.5°	924.5	1205.8	1474.8	1686.0	1854.1	2044.1	2293.8	2570.9	2845.0	3234.0	5364.0
20°	982.2	1267.0	1532.9	1739.8	1901.7	2112.6	2398.5	2672.1	2995.0	4246.6	6857.0
17.5°	1033.5	1321.5	1578.7	1778.8	1955.6	2185.9	2490.7	2763.0	3130.0	5160.1	8396.4
15°	1078.4	1369.2	1618.8	1813.0	2005.1	2261.9	2564.5	2868.8	3601.6	6097.7	9768.4
12.5°	1116.6	1409.8	1653.0	1842.1	2047.3	2326.9	2627.7	2963.1	4242.8	7183.5	11159.4
10°	1148.0	1443.3	1681.2	1866.2	2082.2	2380.5	2680.0	3041.1	4774.5	8085.7	12317.7
7.5°	1172.6	1469.4	1703.2	1885.0	2109.5	2422.6	2721.0	3102.5	5192.8	8796.4	13231.9
5°	1190.2	1488.2	1719.0	1898.5	2129.1	2452.8	2750.5	3146.6	5494.0	9309.0	13892.2
2.5°	1200.8	1499.4	1728.5	1906.6	2140.9	2471.0	2768.3	3173.2	5675.8	9618.6	14291.4
0°	1204.3	1503.2	1731.7	1909.3	2144.8	2477.1	2774.2	3182.1	5736.6	9722.1	14425.0
-2.5°	1200.8	1499.4	1728.5	1906.6	2140.9	2471.0	2768.3	3173.2	5675.8	9618.6	14291.4
-5°	1190.2	1488.2	1719.0	1898.5	2129.1	2452.8	2750.5	3146.6	5494.0	9309.0	13892.2
-7.5°	1172.6	1469.4	1703.2	1885.0	2109.5	2422.6	2721.0	3102.5	5192.8	8796.4	13231.9
-10°	1148.0	1443.3	1681.2	1866.2	2082.2	2380.5	2680.0	3041.1	4774.5	8085.7	12317.7
-12.5°	1116.6	1409.8	1653.0	1842.1	2047.3	2326.9	2627.7	2963.1	4242.8	7183.5	11159.4
-15°	1078.4	1369.2	1618.8	1813.0	2005.1	2261.9	2564.5	2868.8	3601.6	6097.7	9768.4
-17.5°	1033.5	1321.5	1578.7	1778.8	1955.6	2185.9	2490.7	2763.0	3130.0	5160.1	8396.4
-20°	982.2	1267.0	1532.9	1739.8	1901.7	2112.6	2398.5	2672.1	2995.0	4246.6	6857.0



REPORT NUMBER: P701430 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-4S-HEG-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	924.5	1205.8	1474.8	1686.0	1854.1	2044.1	2293.8	2570.9	2845.0	3234.0	5364.0
-25°	863.9	1135.4	1400.5	1624.0	1801.7	1968.7	2178.8	2457.9	2706.3	3013.9	4177.1
-27.5°	801.2	1058.4	1319.4	1556.4	1744.6	1892.3	2080.4	2323.5	2577.1	2823.8	3137.3
-30°	733.3	975.1	1231.9	1477.4	1669.2	1825.9	1985.5	2179.5	2434.6	2662.6	2920.7
-32.5°	660.5	886.6	1135.4	1375.3	1584.7	1755.0	1890.5	2061.0	2270.9	2506.4	2714.6
-35°	588.1	801.2	1031.5	1267.0	1492.7	1665.2	1809.9	1946.6	2112.1	2326.4	2540.4
-37.5°	519.8	710.9	921.9	1150.5	1369.2	1563.6	1723.5	1847.1	1984.4	2137.9	2345.1
-40°	447.9	615.9	815.4	1025.6	1239.8	1443.3	1609.9	1752.9	1865.8	1997.1	2137.9
-42.5°	375.3	533.0	707.2	895.2	1100.8	1298.6	1488.2	1633.1	1762.1	1865.8	1984.4
-45°	320.5	446.9	597.7	773.2	954.9	1146.3	1328.2	1503.2	1633.1	1752.9	1847.1
-47.5°	263.6	364.9	500.7	647.0	813.1	985.0	1161.5	1328.2	1488.2	1609.9	1723.5
-50°	210.9	300.5	400.5	533.3	673.5	826.5	985.0	1146.3	1298.6	1443.3	1563.6
-52.5°	175.2	234.1	322.8	422.0	544.2	673.5	813.1	954.9	1100.8	1239.8	1369.2
-55°	138.4	188.1	248.9	330.2	422.0	533.3	647.0	773.2	895.2	1025.6	1150.5
-57.5°	107.4	147.0	192.4	248.9	322.8	400.5	500.7	597.7	707.2	815.4	921.9
-60°	79.6	110.5	147.0	188.1	234.1	300.5	364.9	446.9	533.0	615.9	710.9
-62.5°	54.2	79.6	107.4	138.4	175.2	210.9	263.6	320.5	375.3	447.9	519.8
-65°	42.2	52.9	73.4	98.2	122.3	153.8	185.2	215.5	262.2	309.7	355.0
-67.5°	30.1	39.7	49.1	61.2	82.9	104.0	124.3	151.4	177.6	202.6	231.1
-70°	24.9	27.6	34.7	42.9	50.9	61.8	79.9	97.3	114.0	132.0	153.1
-72.5°	21.0	23.3	25.6	27.9	34.3	41.0	47.5	53.8	64.8	78.7	92.0
-75°	17.1	19.1	21.0	23.0	24.8	26.6	28.9	34.3	39.4	44.3	49.0
-77.5°	13.1	14.8	16.4	18.0	19.6	21.1	22.5	23.9	25.2	26.5	27.7
-80°	9.7	10.5	11.7	13.0	14.3	15.5	16.6	17.7	18.8	19.8	20.8
-82.5°	7.3	7.9	8.5	9.0	9.6	10.1	10.7	11.5	12.3	13.1	13.8
-85°	4.9	5.3	5.7	6.1	6.4	6.8	7.1	7.4	7.8	8.1	8.3
-87.5°	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.7	3.9	4.1	4.2
-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°	4.3	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.1	5.2	5.2
85°	8.6	8.9	9.1	9.3	9.5	9.7	9.9	10.0	10.1	10.3	10.3
82.5°	14.5	15.1	15.7	16.3	16.8	17.3	17.7	18.1	18.4	18.7	18.9
80°	21.7	22.5	23.3	24.1	24.8	25.4	26.0	26.5	26.9	27.3	27.6
77.5°	30.5	33.9	37.2	40.2	42.9	45.4	47.7	49.7	51.4	52.9	54.1
75°	53.4	59.3	68.7	77.5	85.5	92.9	99.5	105.4	110.5	114.8	118.4
72.5°	104.5	116.3	128.4	142.6	155.8	167.7	178.5	188.1	196.4	203.5	209.4
70°	173.1	191.9	209.5	230.2	255.9	279.3	300.5	319.3	335.6	349.6	361.0
67.5°	269.5	305.8	339.8	371.3	408.7	446.9	481.4	512.0	538.7	561.5	580.2
65°	405.1	463.3	517.9	568.7	615.9	667.5	714.1	755.5	791.7	822.5	847.8
62.5°	588.1	660.5	733.3	801.2	863.9	924.5	982.2	1033.5	1078.4	1116.6	1148.0
60°	801.2	886.6	975.1	1058.4	1135.4	1205.8	1267.0	1321.5	1369.2	1409.8	1443.3
57.5°	1031.5	1135.4	1231.9	1319.4	1400.5	1474.8	1532.9	1578.7	1618.8	1653.0	1681.2
55°	1267.0	1375.3	1477.4	1556.4	1624.0	1686.0	1739.8	1778.8	1813.0	1842.1	1866.2
52.5°	1492.7	1584.7	1669.2	1744.6	1801.7	1854.1	1901.7	1955.6	2005.1	2047.3	2082.2
50°	1665.2	1755.0	1825.9	1892.3	1968.7	2044.1	2112.6	2185.9	2261.9	2326.9	2380.5
47.5°	1809.9	1890.5	1985.5	2080.4	2178.8	2293.8	2398.5	2490.7	2564.5	2627.7	2680.0
45°	1946.6	2061.0	2179.5	2323.5	2457.9	2570.9	2672.1	2763.0	2868.8	2963.1	3041.1
42.5°	2112.1	2270.9	2434.6	2577.1	2706.3	2845.0	2995.0	3130.0	3601.6	4242.8	4774.5
40°	2326.4	2506.4	2662.6	2823.8	3013.9	3234.0	4246.6	5160.1	6097.7	7183.5	8085.7
37.5°	2540.4	2714.6	2920.7	3137.3	4177.1	5364.0	6857.0	8396.4	9768.4	11159.4	12317.7
35°	2732.0	2969.8	3372.8	4818.9	6432.6	8419.2	10345.8	12307.1	14051.7	15678.0	17067.4
32.5°	2969.8	3531.1	5143.8	7212.6	9484.8	11954.4	14279.1	16596.5	18678.5	20616.4	22352.3
30°	3372.8	5143.8	7474.9	10079.9	12939.1	15750.8	18503.5	21227.7	23813.6	26157.5	28364.6
27.5°	4818.9	7212.6	10079.9	13270.7	16506.3	19684.7	23072.7	26293.9	29558.4	32422.0	35369.2
25°	6432.6	9484.8	12939.1	16506.3	20137.1	24013.0	27996.5	31909.9	36120.8	39938.3	44511.9
22.5°	8419.2	11954.4	15750.8	19684.7	24013.0	28572.2	33261.9	38416.6	44418.1	50983.3	57603.8
20°	10345.8	14279.1	18503.5	23072.7	27996.5	33261.9	39195.2	46988.7	55413.8	65451.1	74651.1
17.5°	12307.1	16596.5	21227.7	26293.9	31909.9	38416.6	46988.7	57332.3	69519.5	83107.2	95770.8
15°	14051.7	18678.5	23813.6	29558.4	36120.8	44418.1	55413.8	69519.5	86007.6	103656.4	122160.4
12.5°	15678.0	20616.4	26157.5	32422.0	39938.3	50983.3	65451.1	83107.2	103656.4	126654.7	143671.8
10°	17067.4	22352.3	28364.6	35369.2	44511.9	57603.8	74651.1	95770.8	122160.4	143671.8	161204.3
7.5°	18166.4	23729.2	30121.1	37726.9	48602.4	63930.9	83931.5	109199.5	135806.5	157361.0	174599.0
5°	18961.7	24727.8	31398.5	39447.4	51600.6	68595.4	90826.3	119454.3	145345.3	166748.7	184152.2
2.5°	19443.1	25333.1	32174.4	40495.1	53432.2	71457.1	95080.8	125834.0	151351.2	172509.1	190271.5
0°	19604.3	25536.0	32434.7	40847.0	54048.4	72422.0	96519.9	128001.7	153405.8	174419.2	192435.0
-2.5°	19443.1	25333.1	32174.4	40495.1	53432.2	71457.1	95080.8	125834.0	151351.2	172509.1	190271.5
-5°	18961.7	24727.8	31398.5	39447.4	51600.6	68595.4	90826.3	119454.3	145345.3	166748.7	184152.2
-7.5°	18166.4	23729.2	30121.1	37726.9	48602.4	63930.9	83931.5	109199.5	135806.5	157361.0	174599.0
-10°	17067.4	22352.3	28364.6	35369.2	44511.9	57603.8	74651.1	95770.8	122160.4	143671.8	161204.3
-12.5°	15678.0	20616.4	26157.5	32422.0	39938.3	50983.3	65451.1	83107.2	103656.4	126654.7	143671.8
-15°	14051.7	18678.5	23813.6	29558.4	36120.8	44418.1	55413.8	69519.5	86007.6	103656.4	122160.4
-17.5°	12307.1	16596.5	21227.7	26293.9	31909.9	38416.6	46988.7	57332.3	69519.5	83107.2	95770.8
-20°	10345.8	14279.1	18503.5	23072.7	27996.5	33261.9	39195.2	46988.7	55413.8	65451.1	74651.1



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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°	8419.2	11954.4	15750.8	19684.7	24013.0	28572.2	33261.9	38416.6	44418.1	50983.3	57603.8
-25°	6432.6	9484.8	12939.1	16506.3	20137.1	24013.0	27996.5	31909.9	36120.8	39938.3	44511.9
-27.5°	4818.9	7212.6	10079.9	13270.7	16506.3	19684.7	23072.7	26293.9	29558.4	32422.0	35369.2
-30°	3372.8	5143.8	7474.9	10079.9	12939.1	15750.8	18503.5	21227.7	23813.6	26157.5	28364.6
-32.5°	2969.8	3531.1	5143.8	7212.6	9484.8	11954.4	14279.1	16596.5	18678.5	20616.4	22352.3
-35°	2732.0	2969.8	3372.8	4818.9	6432.6	8419.2	10345.8	12307.1	14051.7	15678.0	17067.4
-37.5°	2540.4	2714.6	2920.7	3137.3	4177.1	5364.0	6857.0	8396.4	9768.4	11159.4	12317.7
-40°	2326.4	2506.4	2662.6	2823.8	3013.9	3234.0	4246.6	5160.1	6097.7	7183.5	8085.7
-42.5°	2112.1	2270.9	2434.6	2577.1	2706.3	2845.0	2995.0	3130.0	3601.6	4242.8	4774.5
-45°	1946.6	2061.0	2179.5	2323.5	2457.9	2570.9	2672.1	2763.0	2868.8	2963.1	3041.1
-47.5°	1809.9	1890.5	1985.5	2080.4	2178.8	2293.8	2398.5	2490.7	2564.5	2627.7	2680.0
-50°	1665.2	1755.0	1825.9	1892.3	1968.7	2044.1	2112.6	2185.9	2261.9	2326.9	2380.5
-52.5°	1492.7	1584.7	1669.2	1744.6	1801.7	1854.1	1901.7	1955.6	2005.1	2047.3	2082.2
-55°	1267.0	1375.3	1477.4	1556.4	1624.0	1686.0	1739.8	1778.8	1813.0	1842.1	1866.2
-57.5°	1031.5	1135.4	1231.9	1319.4	1400.5	1474.8	1532.9	1578.7	1618.8	1653.0	1681.2
-60°	801.2	886.6	975.1	1058.4	1135.4	1205.8	1267.0	1321.5	1369.2	1409.8	1443.3
-62.5°	588.1	660.5	733.3	801.2	863.9	924.5	982.2	1033.5	1078.4	1116.6	1148.0
-65°	405.1	463.3	517.9	568.7	615.9	667.5	714.1	755.5	791.7	822.5	847.8
-67.5°	269.5	305.8	339.8	371.3	408.7	446.9	481.4	512.0	538.7	561.5	580.2
-70°	173.1	191.9	209.5	230.2	255.9	279.3	300.5	319.3	335.6	349.6	361.0
-72.5°	104.5	116.3	128.4	142.6	155.8	167.7	178.5	188.1	196.4	203.5	209.4
-75°	53.4	59.3	68.7	77.5	85.5	92.9	99.5	105.4	110.5	114.8	118.4
-77.5°	30.5	33.9	37.2	40.2	42.9	45.4	47.7	49.7	51.4	52.9	54.1
-80°	21.7	22.5	23.3	24.1	24.8	25.4	26.0	26.5	26.9	27.3	27.6
-82.5°	14.5	15.1	15.7	16.3	16.8	17.3	17.7	18.1	18.4	18.7	18.9
-85°	8.6	8.9	9.1	9.3	9.5	9.7	9.9	10.0	10.1	10.3	10.3
-87.5°	4.3	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.1	5.2	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



REPORT NUMBER: P701430 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-4S-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°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.2	5.2	5.1	5.1
85°	10.4	10.5	10.5	10.5	10.5	10.5	10.4	10.3	10.3	10.1	10.0
82.5°	19.1	19.2	19.3	19.3	19.3	19.2	19.1	18.9	18.7	18.4	18.1
80°	27.8	28.0	28.1	28.1	28.1	28.0	27.8	27.6	27.3	26.9	26.5
77.5°	55.1	55.8	56.2	56.3	56.2	55.8	55.1	54.1	52.9	51.4	49.7
75°	121.2	123.2	124.4	124.8	124.4	123.2	121.2	118.4	114.8	110.5	105.4
72.5°	213.9	217.2	219.1	219.8	219.1	217.2	213.9	209.4	203.5	196.4	188.1
70°	370.0	376.4	380.2	381.5	380.2	376.4	370.0	361.0	349.6	335.6	319.3
67.5°	594.8	605.2	611.5	613.6	611.5	605.2	594.8	580.2	561.5	538.7	512.0
65°	867.6	881.7	890.3	893.1	890.3	881.7	867.6	847.8	822.5	791.7	755.5
62.5°	1172.6	1190.2	1200.8	1204.3	1200.8	1190.2	1172.6	1148.0	1116.6	1078.4	1033.5
60°	1469.4	1488.2	1499.4	1503.2	1499.4	1488.2	1469.4	1443.3	1409.8	1369.2	1321.5
57.5°	1703.2	1719.0	1728.5	1731.7	1728.5	1719.0	1703.2	1681.2	1653.0	1618.8	1578.7
55°	1885.0	1898.5	1906.6	1909.3	1906.6	1898.5	1885.0	1866.2	1842.1	1813.0	1778.8
52.5°	2109.5	2129.1	2140.9	2144.8	2140.9	2129.1	2109.5	2082.2	2047.3	2005.1	1955.6
50°	2422.6	2452.8	2471.0	2477.1	2471.0	2452.8	2422.6	2380.5	2326.9	2261.9	2185.9
47.5°	2721.0	2750.5	2768.3	2774.2	2768.3	2750.5	2721.0	2680.0	2627.7	2564.5	2490.7
45°	3102.5	3146.6	3173.2	3182.1	3173.2	3146.6	3102.5	3041.1	2963.1	2868.8	2763.0
42.5°	5192.8	5494.0	5675.8	5736.6	5675.8	5494.0	5192.8	4774.5	4242.8	3601.6	3130.0
40°	8796.4	9309.0	9618.6	9722.1	9618.6	9309.0	8796.4	8085.7	7183.5	6097.7	5160.1
37.5°	13231.9	13892.2	14291.4	14425.0	14291.4	13892.2	13231.9	12317.7	11159.4	9768.4	8396.4
35°	18166.4	18961.7	19443.1	19604.3	19443.1	18961.7	18166.4	17067.4	15678.0	14051.7	12307.1
32.5°	23729.2	24727.8	25333.1	25536.0	25333.1	24727.8	23729.2	22352.3	20616.4	18678.5	16596.5
30°	30121.1	31398.5	32174.4	32434.7	32174.4	31398.5	30121.1	28364.6	26157.5	23813.6	21227.7
27.5°	37726.9	39447.4	40495.1	40847.0	40495.1	39447.4	37726.9	35369.2	32422.0	29558.4	26293.9
25°	48602.4	51600.6	53432.2	54048.4	53432.2	51600.6	48602.4	44511.9	39938.3	36120.8	31909.9
22.5°	63930.9	68595.4	71457.1	72422.0	71457.1	68595.4	63930.9	57603.8	50983.3	44418.1	38416.6
20°	83931.5	90826.3	95080.8	96519.9	95080.8	90826.3	83931.5	74651.1	65451.1	55413.8	46988.7
17.5°	109199.5	119454.3	125834.0	128001.7	125834.0	119454.3	109199.5	95770.8	83107.2	69519.5	57332.3
15°	135806.5	145345.3	151351.2	153405.8	151351.2	145345.3	135806.5	122160.4	103656.4	86007.6	69519.5
12.5°	157361.0	166748.7	172509.1	174419.2	172509.1	166748.7	157361.0	143671.8	126654.7	103656.4	83107.2
10°	174599.0	184152.2	190271.5	192435.0	190271.5	184152.2	174599.0	161204.3	143671.8	122160.4	95770.8
7.5°	188235.4	199018.3	205549.2	207873.5	205549.2	199018.3	188235.4	174599.0	157361.0	135806.5	109199.5
5°	199018.3	210370.6	218100.7	220820.8	218100.7	210370.6	199018.3	184152.2	166748.7	145345.3	119454.3
2.5°	205549.2	218100.7	225568.0	227713.3	225568.0	218100.7	205549.2	190271.5	172509.1	151351.2	125834.0
0°	207873.5	220820.8	227713.3	228689.9	227713.3	220820.8	207873.5	192435.0	174419.2	153405.8	128001.7
-2.5°	205549.2	218100.7	225568.0	227713.3	225568.0	218100.7	205549.2	190271.5	172509.1	151351.2	125834.0
-5°	199018.3	210370.6	218100.7	220820.8	218100.7	210370.6	199018.3	184152.2	166748.7	145345.3	119454.3
-7.5°	188235.4	199018.3	205549.2	207873.5	205549.2	199018.3	188235.4	174599.0	157361.0	135806.5	109199.5
-10°	174599.0	184152.2	190271.5	192435.0	190271.5	184152.2	174599.0	161204.3	143671.8	122160.4	95770.8
-12.5°	157361.0	166748.7	172509.1	174419.2	172509.1	166748.7	157361.0	143671.8	126654.7	103656.4	83107.2
-15°	135806.5	145345.3	151351.2	153405.8	151351.2	145345.3	135806.5	122160.4	103656.4	86007.6	69519.5
-17.5°	109199.5	119454.3	125834.0	128001.7	125834.0	119454.3	109199.5	95770.8	83107.2	69519.5	57332.3
-20°	83931.5	90826.3	95080.8	96519.9	95080.8	90826.3	83931.5	74651.1	65451.1	55413.8	46988.7



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°
-22.5°	63930.9	68595.4	71457.1	72422.0	71457.1	68595.4	63930.9	57603.8	50983.3	44418.1	38416.6
-25°	48602.4	51600.6	53432.2	54048.4	53432.2	51600.6	48602.4	44511.9	39938.3	36120.8	31909.9
-27.5°	37726.9	39447.4	40495.1	40847.0	40495.1	39447.4	37726.9	35369.2	32422.0	29558.4	26293.9
-30°	30121.1	31398.5	32174.4	32434.7	32174.4	31398.5	30121.1	28364.6	26157.5	23813.6	21227.7
-32.5°	23729.2	24727.8	25333.1	25536.0	25333.1	24727.8	23729.2	22352.3	20616.4	18678.5	16596.5
-35°	18166.4	18961.7	19443.1	19604.3	19443.1	18961.7	18166.4	17067.4	15678.0	14051.7	12307.1
-37.5°	13231.9	13892.2	14291.4	14425.0	14291.4	13892.2	13231.9	12317.7	11159.4	9768.4	8396.4
-40°	8796.4	9309.0	9618.6	9722.1	9618.6	9309.0	8796.4	8085.7	7183.5	6097.7	5160.1
-42.5°	5192.8	5494.0	5675.8	5736.6	5675.8	5494.0	5192.8	4774.5	4242.8	3601.6	3130.0
-45°	3102.5	3146.6	3173.2	3182.1	3173.2	3146.6	3102.5	3041.1	2963.1	2868.8	2763.0
-47.5°	2721.0	2750.5	2768.3	2774.2	2768.3	2750.5	2721.0	2680.0	2627.7	2564.5	2490.7
-50°	2422.6	2452.8	2471.0	2477.1	2471.0	2452.8	2422.6	2380.5	2326.9	2261.9	2185.9
-52.5°	2109.5	2129.1	2140.9	2144.8	2140.9	2129.1	2109.5	2082.2	2047.3	2005.1	1955.6
-55°	1885.0	1898.5	1906.6	1909.3	1906.6	1898.5	1885.0	1866.2	1842.1	1813.0	1778.8
-57.5°	1703.2	1719.0	1728.5	1731.7	1728.5	1719.0	1703.2	1681.2	1653.0	1618.8	1578.7
-60°	1469.4	1488.2	1499.4	1503.2	1499.4	1488.2	1469.4	1443.3	1409.8	1369.2	1321.5
-62.5°	1172.6	1190.2	1200.8	1204.3	1200.8	1190.2	1172.6	1148.0	1116.6	1078.4	1033.5
-65°	867.6	881.7	890.3	893.1	890.3	881.7	867.6	847.8	822.5	791.7	755.5
-67.5°	594.8	605.2	611.5	613.6	611.5	605.2	594.8	580.2	561.5	538.7	512.0
-70°	370.0	376.4	380.2	381.5	380.2	376.4	370.0	361.0	349.6	335.6	319.3
-72.5°	213.9	217.2	219.1	219.8	219.1	217.2	213.9	209.4	203.5	196.4	188.1
-75°	121.2	123.2	124.4	124.8	124.4	123.2	121.2	118.4	114.8	110.5	105.4
-77.5°	55.1	55.8	56.2	56.3	56.2	55.8	55.1	54.1	52.9	51.4	49.7
-80°	27.8	28.0	28.1	28.1	28.1	28.0	27.8	27.6	27.3	26.9	26.5
-82.5°	19.1	19.2	19.3	19.3	19.3	19.2	19.1	18.9	18.7	18.4	18.1
-85°	10.4	10.5	10.5	10.5	10.5	10.5	10.4	10.3	10.3	10.1	10.0
-87.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.2	5.2	5.1	5.1
-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°	5.0	4.9	4.8	4.7	4.6	4.5	4.3	4.2	4.1	3.9	3.7
85°	9.9	9.7	9.5	9.3	9.1	8.9	8.6	8.3	8.1	7.8	7.4
82.5°	17.7	17.3	16.8	16.3	15.7	15.1	14.5	13.8	13.1	12.3	11.5
80°	26.0	25.4	24.8	24.1	23.3	22.5	21.7	20.8	19.8	18.8	17.7
77.5°	47.7	45.4	42.9	40.2	37.2	33.9	30.5	27.7	26.5	25.2	23.9
75°	99.5	92.9	85.5	77.5	68.7	59.3	53.4	49.0	44.3	39.4	34.3
72.5°	178.5	167.7	155.8	142.6	128.4	116.3	104.5	92.0	78.7	64.8	53.8
70°	300.5	279.3	255.9	230.2	209.5	191.9	173.1	153.1	132.0	114.0	97.3
67.5°	481.4	446.9	408.7	371.3	339.8	305.8	269.5	231.1	202.6	177.6	151.4
65°	714.1	667.5	615.9	568.7	517.9	463.3	405.1	355.0	309.7	262.2	215.5
62.5°	982.2	924.5	863.9	801.2	733.3	660.5	588.1	519.8	447.9	375.3	320.5
60°	1267.0	1205.8	1135.4	1058.4	975.1	886.6	801.2	710.9	615.9	533.0	446.9
57.5°	1532.9	1474.8	1400.5	1319.4	1231.9	1135.4	1031.5	921.9	815.4	707.2	597.7
55°	1739.8	1686.0	1624.0	1556.4	1477.4	1375.3	1267.0	1150.5	1025.6	895.2	773.2
52.5°	1901.7	1854.1	1801.7	1744.6	1669.2	1584.7	1492.7	1369.2	1239.8	1100.8	954.9
50°	2112.6	2044.1	1968.7	1892.3	1825.9	1755.0	1665.2	1563.6	1443.3	1298.6	1146.3
47.5°	2398.5	2293.8	2178.8	2080.4	1985.5	1890.5	1809.9	1723.5	1609.9	1488.2	1328.2
45°	2672.1	2570.9	2457.9	2323.5	2179.5	2061.0	1946.6	1847.1	1752.9	1633.1	1503.2
42.5°	2995.0	2845.0	2706.3	2577.1	2434.6	2270.9	2112.1	1984.4	1865.8	1762.1	1633.1
40°	4246.6	3234.0	3013.9	2823.8	2662.6	2506.4	2326.4	2137.9	1997.1	1865.8	1752.9
37.5°	6857.0	5364.0	4177.1	3137.3	2920.7	2714.6	2540.4	2345.1	2137.9	1984.4	1847.1
35°	10345.8	8419.2	6432.6	4818.9	3372.8	2969.8	2732.0	2540.4	2326.4	2112.1	1946.6
32.5°	14279.1	11954.4	9484.8	7212.6	5143.8	3531.1	2969.8	2714.6	2506.4	2270.9	2061.0
30°	18503.5	15750.8	12939.1	10079.9	7474.9	5143.8	3372.8	2920.7	2662.6	2434.6	2179.5
27.5°	23072.7	19684.7	16506.3	13270.7	10079.9	7212.6	4818.9	3137.3	2823.8	2577.1	2323.5
25°	27996.5	24013.0	20137.1	16506.3	12939.1	9484.8	6432.6	4177.1	3013.9	2706.3	2457.9
22.5°	33261.9	28572.2	24013.0	19684.7	15750.8	11954.4	8419.2	5364.0	3234.0	2845.0	2570.9
20°	39195.2	33261.9	27996.5	23072.7	18503.5	14279.1	10345.8	6857.0	4246.6	2995.0	2672.1
17.5°	46988.7	38416.6	31909.9	26293.9	21227.7	16596.5	12307.1	8396.4	5160.1	3130.0	2763.0
15°	55413.8	44418.1	36120.8	29558.4	23813.6	18678.5	14051.7	9768.4	6097.7	3601.6	2868.8
12.5°	65451.1	50983.3	39938.3	32422.0	26157.5	20616.4	15678.0	11159.4	7183.5	4242.8	2963.1
10°	74651.1	57603.8	44511.9	35369.2	28364.6	22352.3	17067.4	12317.7	8085.7	4774.5	3041.1
7.5°	83931.5	63930.9	48602.4	37726.9	30121.1	23729.2	18166.4	13231.9	8796.4	5192.8	3102.5
5°	90826.3	68595.4	51600.6	39447.4	31398.5	24727.8	18961.7	13892.2	9309.0	5494.0	3146.6
2.5°	95080.8	71457.1	53432.2	40495.1	32174.4	25333.1	19443.1	14291.4	9618.6	5675.8	3173.2
0°	96519.9	72422.0	54048.4	40847.0	32434.7	25536.0	19604.3	14425.0	9722.1	5736.6	3182.1
-2.5°	95080.8	71457.1	53432.2	40495.1	32174.4	25333.1	19443.1	14291.4	9618.6	5675.8	3173.2
-5°	90826.3	68595.4	51600.6	39447.4	31398.5	24727.8	18961.7	13892.2	9309.0	5494.0	3146.6
-7.5°	83931.5	63930.9	48602.4	37726.9	30121.1	23729.2	18166.4	13231.9	8796.4	5192.8	3102.5
-10°	74651.1	57603.8	44511.9	35369.2	28364.6	22352.3	17067.4	12317.7	8085.7	4774.5	3041.1
-12.5°	65451.1	50983.3	39938.3	32422.0	26157.5	20616.4	15678.0	11159.4	7183.5	4242.8	2963.1
-15°	55413.8	44418.1	36120.8	29558.4	23813.6	18678.5	14051.7	9768.4	6097.7	3601.6	2868.8
-17.5°	46988.7	38416.6	31909.9	26293.9	21227.7	16596.5	12307.1	8396.4	5160.1	3130.0	2763.0
-20°	39195.2	33261.9	27996.5	23072.7	18503.5	14279.1	10345.8	6857.0	4246.6	2995.0	2672.1



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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°	33261.9	28572.2	24013.0	19684.7	15750.8	11954.4	8419.2	5364.0	3234.0	2845.0	2570.9
-25°	27996.5	24013.0	20137.1	16506.3	12939.1	9484.8	6432.6	4177.1	3013.9	2706.3	2457.9
-27.5°	23072.7	19684.7	16506.3	13270.7	10079.9	7212.6	4818.9	3137.3	2823.8	2577.1	2323.5
-30°	18503.5	15750.8	12939.1	10079.9	7474.9	5143.8	3372.8	2920.7	2662.6	2434.6	2179.5
-32.5°	14279.1	11954.4	9484.8	7212.6	5143.8	3531.1	2969.8	2714.6	2506.4	2270.9	2061.0
-35°	10345.8	8419.2	6432.6	4818.9	3372.8	2969.8	2732.0	2540.4	2326.4	2112.1	1946.6
-37.5°	6857.0	5364.0	4177.1	3137.3	2920.7	2714.6	2540.4	2345.1	2137.9	1984.4	1847.1
-40°	4246.6	3234.0	3013.9	2823.8	2662.6	2506.4	2326.4	2137.9	1997.1	1865.8	1752.9
-42.5°	2995.0	2845.0	2706.3	2577.1	2434.6	2270.9	2112.1	1984.4	1865.8	1762.1	1633.1
-45°	2672.1	2570.9	2457.9	2323.5	2179.5	2061.0	1946.6	1847.1	1752.9	1633.1	1503.2
-47.5°	2398.5	2293.8	2178.8	2080.4	1985.5	1890.5	1809.9	1723.5	1609.9	1488.2	1328.2
-50°	2112.6	2044.1	1968.7	1892.3	1825.9	1755.0	1665.2	1563.6	1443.3	1298.6	1146.3
-52.5°	1901.7	1854.1	1801.7	1744.6	1669.2	1584.7	1492.7	1369.2	1239.8	1100.8	954.9
-55°	1739.8	1686.0	1624.0	1556.4	1477.4	1375.3	1267.0	1150.5	1025.6	895.2	773.2
-57.5°	1532.9	1474.8	1400.5	1319.4	1231.9	1135.4	1031.5	921.9	815.4	707.2	597.7
-60°	1267.0	1205.8	1135.4	1058.4	975.1	886.6	801.2	710.9	615.9	533.0	446.9
-62.5°	982.2	924.5	863.9	801.2	733.3	660.5	588.1	519.8	447.9	375.3	320.5
-65°	714.1	667.5	615.9	568.7	517.9	463.3	405.1	355.0	309.7	262.2	215.5
-67.5°	481.4	446.9	408.7	371.3	339.8	305.8	269.5	231.1	202.6	177.6	151.4
-70°	300.5	279.3	255.9	230.2	209.5	191.9	173.1	153.1	132.0	114.0	97.3
-72.5°	178.5	167.7	155.8	142.6	128.4	116.3	104.5	92.0	78.7	64.8	53.8
-75°	99.5	92.9	85.5	77.5	68.7	59.3	53.4	49.0	44.3	39.4	34.3
-77.5°	47.7	45.4	42.9	40.2	37.2	33.9	30.5	27.7	26.5	25.2	23.9
-80°	26.0	25.4	24.8	24.1	23.3	22.5	21.7	20.8	19.8	18.8	17.7
-82.5°	17.7	17.3	16.8	16.3	15.7	15.1	14.5	13.8	13.1	12.3	11.5
-85°	9.9	9.7	9.5	9.3	9.1	8.9	8.6	8.3	8.1	7.8	7.4
-87.5°	5.0	4.9	4.8	4.7	4.6	4.5	4.3	4.2	4.1	3.9	3.7
-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: P701430 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-4S-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°	3.6	3.4	3.2	3.0	2.8	2.6	2.4	2.2	2.0	1.8	1.6
85°	7.1	6.8	6.4	6.1	5.7	5.3	4.9	4.5	4.1	3.6	3.2
82.5°	10.7	10.1	9.6	9.0	8.5	7.9	7.3	6.7	6.1	5.4	4.8
80°	16.6	15.5	14.3	13.0	11.7	10.5	9.7	8.9	8.0	7.2	6.3
77.5°	22.5	21.1	19.6	18.0	16.4	14.8	13.1	11.4	10.0	8.9	7.9
75°	28.9	26.6	24.8	23.0	21.0	19.1	17.1	15.0	12.9	10.8	9.4
72.5°	47.5	41.0	34.3	27.9	25.6	23.3	21.0	18.6	16.2	13.7	11.2
70°	79.9	61.8	50.9	42.9	34.7	27.6	24.9	22.2	19.4	16.5	13.7
67.5°	124.3	104.0	82.9	61.2	49.1	39.7	30.1	25.7	22.5	19.4	16.2
65°	185.2	153.8	122.3	98.2	73.4	52.9	42.2	31.4	25.7	22.2	18.6
62.5°	263.6	210.9	175.2	138.4	107.4	79.6	54.2	42.2	30.1	24.9	21.0
60°	364.9	300.5	234.1	188.1	147.0	110.5	79.6	52.9	39.7	27.6	23.3
57.5°	500.7	400.5	322.8	248.9	192.4	147.0	107.4	73.4	49.1	34.7	25.6
55°	647.0	533.3	422.0	330.2	248.9	188.1	138.4	98.2	61.2	42.9	27.9
52.5°	813.1	673.5	544.2	422.0	322.8	234.1	175.2	122.3	82.9	50.9	34.3
50°	985.0	826.5	673.5	533.3	400.5	300.5	210.9	153.8	104.0	61.8	41.0
47.5°	1161.5	985.0	813.1	647.0	500.7	364.9	263.6	185.2	124.3	79.9	47.5
45°	1328.2	1146.3	954.9	773.2	597.7	446.9	320.5	215.5	151.4	97.3	53.8
42.5°	1488.2	1298.6	1100.8	895.2	707.2	533.0	375.3	262.2	177.6	114.0	64.8
40°	1609.9	1443.3	1239.8	1025.6	815.4	615.9	447.9	309.7	202.6	132.0	78.7
37.5°	1723.5	1563.6	1369.2	1150.5	921.9	710.9	519.8	355.0	231.1	153.1	92.0
35°	1809.9	1665.2	1492.7	1267.0	1031.5	801.2	588.1	405.1	269.5	173.1	104.5
32.5°	1890.5	1755.0	1584.7	1375.3	1135.4	886.6	660.5	463.3	305.8	191.9	116.3
30°	1985.5	1825.9	1669.2	1477.4	1231.9	975.1	733.3	517.9	339.8	209.5	128.4
27.5°	2080.4	1892.3	1744.6	1556.4	1319.4	1058.4	801.2	568.7	371.3	230.2	142.6
25°	2178.8	1968.7	1801.7	1624.0	1400.5	1135.4	863.9	615.9	408.7	255.9	155.8
22.5°	2293.8	2044.1	1854.1	1686.0	1474.8	1205.8	924.5	667.5	446.9	279.3	167.7
20°	2398.5	2112.6	1901.7	1739.8	1532.9	1267.0	982.2	714.1	481.4	300.5	178.5
17.5°	2490.7	2185.9	1955.6	1778.8	1578.7	1321.5	1033.5	755.5	512.0	319.3	188.1
15°	2564.5	2261.9	2005.1	1813.0	1618.8	1369.2	1078.4	791.7	538.7	335.6	196.4
12.5°	2627.7	2326.9	2047.3	1842.1	1653.0	1409.8	1116.6	822.5	561.5	349.6	203.5
10°	2680.0	2380.5	2082.2	1866.2	1681.2	1443.3	1148.0	847.8	580.2	361.0	209.4
7.5°	2721.0	2422.6	2109.5	1885.0	1703.2	1469.4	1172.6	867.6	594.8	370.0	213.9
5°	2750.5	2452.8	2129.1	1898.5	1719.0	1488.2	1190.2	881.7	605.2	376.4	217.2
2.5°	2768.3	2471.0	2140.9	1906.6	1728.5	1499.4	1200.8	890.3	611.5	380.2	219.1
0°	2774.2	2477.1	2144.8	1909.3	1731.7	1503.2	1204.3	893.1	613.6	381.5	219.8
-2.5°	2768.3	2471.0	2140.9	1906.6	1728.5	1499.4	1200.8	890.3	611.5	380.2	219.1
-5°	2750.5	2452.8	2129.1	1898.5	1719.0	1488.2	1190.2	881.7	605.2	376.4	217.2
-7.5°	2721.0	2422.6	2109.5	1885.0	1703.2	1469.4	1172.6	867.6	594.8	370.0	213.9
-10°	2680.0	2380.5	2082.2	1866.2	1681.2	1443.3	1148.0	847.8	580.2	361.0	209.4
-12.5°	2627.7	2326.9	2047.3	1842.1	1653.0	1409.8	1116.6	822.5	561.5	349.6	203.5
-15°	2564.5	2261.9	2005.1	1813.0	1618.8	1369.2	1078.4	791.7	538.7	335.6	196.4
-17.5°	2490.7	2185.9	1955.6	1778.8	1578.7	1321.5	1033.5	755.5	512.0	319.3	188.1
-20°	2398.5	2112.6	1901.7	1739.8	1532.9	1267.0	982.2	714.1	481.4	300.5	178.5



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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°	2293.8	2044.1	1854.1	1686.0	1474.8	1205.8	924.5	667.5	446.9	279.3	167.7
-25°	2178.8	1968.7	1801.7	1624.0	1400.5	1135.4	863.9	615.9	408.7	255.9	155.8
-27.5°	2080.4	1892.3	1744.6	1556.4	1319.4	1058.4	801.2	568.7	371.3	230.2	142.6
-30°	1985.5	1825.9	1669.2	1477.4	1231.9	975.1	733.3	517.9	339.8	209.5	128.4
-32.5°	1890.5	1755.0	1584.7	1375.3	1135.4	886.6	660.5	463.3	305.8	191.9	116.3
-35°	1809.9	1665.2	1492.7	1267.0	1031.5	801.2	588.1	405.1	269.5	173.1	104.5
-37.5°	1723.5	1563.6	1369.2	1150.5	921.9	710.9	519.8	355.0	231.1	153.1	92.0
-40°	1609.9	1443.3	1239.8	1025.6	815.4	615.9	447.9	309.7	202.6	132.0	78.7
-42.5°	1488.2	1298.6	1100.8	895.2	707.2	533.0	375.3	262.2	177.6	114.0	64.8
-45°	1328.2	1146.3	954.9	773.2	597.7	446.9	320.5	215.5	151.4	97.3	53.8
-47.5°	1161.5	985.0	813.1	647.0	500.7	364.9	263.6	185.2	124.3	79.9	47.5
-50°	985.0	826.5	673.5	533.3	400.5	300.5	210.9	153.8	104.0	61.8	41.0
-52.5°	813.1	673.5	544.2	422.0	322.8	234.1	175.2	122.3	82.9	50.9	34.3
-55°	647.0	533.3	422.0	330.2	248.9	188.1	138.4	98.2	61.2	42.9	27.9
-57.5°	500.7	400.5	322.8	248.9	192.4	147.0	107.4	73.4	49.1	34.7	25.6
-60°	364.9	300.5	234.1	188.1	147.0	110.5	79.6	52.9	39.7	27.6	23.3
-62.5°	263.6	210.9	175.2	138.4	107.4	79.6	54.2	42.2	30.1	24.9	21.0
-65°	185.2	153.8	122.3	98.2	73.4	52.9	42.2	31.4	25.7	22.2	18.6
-67.5°	124.3	104.0	82.9	61.2	49.1	39.7	30.1	25.7	22.5	19.4	16.2
-70°	79.9	61.8	50.9	42.9	34.7	27.6	24.9	22.2	19.4	16.5	13.7
-72.5°	47.5	41.0	34.3	27.9	25.6	23.3	21.0	18.6	16.2	13.7	11.2
-75°	28.9	26.6	24.8	23.0	21.0	19.1	17.1	15.0	12.9	10.8	9.4
-77.5°	22.5	21.1	19.6	18.0	16.4	14.8	13.1	11.4	10.0	8.9	7.9
-80°	16.6	15.5	14.3	13.0	11.7	10.5	9.7	8.9	8.0	7.2	6.3
-82.5°	10.7	10.1	9.6	9.0	8.5	7.9	7.3	6.7	6.1	5.4	4.8
-85°	7.1	6.8	6.4	6.1	5.7	5.3	4.9	4.5	4.1	3.6	3.2
-87.5°	3.6	3.4	3.2	3.0	2.8	2.6	2.4	2.2	2.0	1.8	1.6
-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°	1.4	1.1	0.9	0.7	0.5	0.2	0.0
85°	2.7	2.3	1.8	1.4	0.9	0.5	0.0
82.5°	4.1	3.4	2.8	2.1	1.4	0.7	0.0
80°	5.5	4.6	3.7	2.8	1.8	0.9	0.0
77.5°	6.8	5.7	4.6	3.4	2.3	1.1	0.0
75°	8.1	6.8	5.5	4.1	2.7	1.4	0.0
72.5°	9.4	7.9	6.3	4.8	3.2	1.6	0.0
70°	10.8	8.9	7.2	5.4	3.6	1.8	0.0
67.5°	12.9	10.0	8.0	6.1	4.1	2.0	0.0
65°	15.0	11.4	8.9	6.7	4.5	2.2	0.0
62.5°	17.1	13.1	9.7	7.3	4.9	2.4	0.0
60°	19.1	14.8	10.5	7.9	5.3	2.6	0.0
57.5°	21.0	16.4	11.7	8.5	5.7	2.8	0.0
55°	23.0	18.0	13.0	9.0	6.1	3.0	0.0
52.5°	24.8	19.6	14.3	9.6	6.4	3.2	0.0
50°	26.6	21.1	15.5	10.1	6.8	3.4	0.0
47.5°	28.9	22.5	16.6	10.7	7.1	3.6	0.0
45°	34.3	23.9	17.7	11.5	7.4	3.7	0.0
42.5°	39.4	25.2	18.8	12.3	7.8	3.9	0.0
40°	44.3	26.5	19.8	13.1	8.1	4.1	0.0
37.5°	49.0	27.7	20.8	13.8	8.3	4.2	0.0
35°	53.4	30.5	21.7	14.5	8.6	4.3	0.0
32.5°	59.3	33.9	22.5	15.1	8.9	4.5	0.0
30°	68.7	37.2	23.3	15.7	9.1	4.6	0.0
27.5°	77.5	40.2	24.1	16.3	9.3	4.7	0.0
25°	85.5	42.9	24.8	16.8	9.5	4.8	0.0
22.5°	92.9	45.4	25.4	17.3	9.7	4.9	0.0
20°	99.5	47.7	26.0	17.7	9.9	5.0	0.0
17.5°	105.4	49.7	26.5	18.1	10.0	5.1	0.0
15°	110.5	51.4	26.9	18.4	10.1	5.1	0.0
12.5°	114.8	52.9	27.3	18.7	10.3	5.2	0.0
10°	118.4	54.1	27.6	18.9	10.3	5.2	0.0
7.5°	121.2	55.1	27.8	19.1	10.4	5.3	0.0
5°	123.2	55.8	28.0	19.2	10.5	5.3	0.0
2.5°	124.4	56.2	28.1	19.3	10.5	5.3	0.0
0°	124.8	56.3	28.1	19.3	10.5	5.3	0.0
-2.5°	124.4	56.2	28.1	19.3	10.5	5.3	0.0
-5°	123.2	55.8	28.0	19.2	10.5	5.3	0.0
-7.5°	121.2	55.1	27.8	19.1	10.4	5.3	0.0
-10°	118.4	54.1	27.6	18.9	10.3	5.2	0.0
-12.5°	114.8	52.9	27.3	18.7	10.3	5.2	0.0
-15°	110.5	51.4	26.9	18.4	10.1	5.1	0.0
-17.5°	105.4	49.7	26.5	18.1	10.0	5.1	0.0
-20°	99.5	47.7	26.0	17.7	9.9	5.0	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	92.9	45.4	25.4	17.3	9.7	4.9	0.0
-25°	85.5	42.9	24.8	16.8	9.5	4.8	0.0
-27.5°	77.5	40.2	24.1	16.3	9.3	4.7	0.0
-30°	68.7	37.2	23.3	15.7	9.1	4.6	0.0
-32.5°	59.3	33.9	22.5	15.1	8.9	4.5	0.0
-35°	53.4	30.5	21.7	14.5	8.6	4.3	0.0
-37.5°	49.0	27.7	20.8	13.8	8.3	4.2	0.0
-40°	44.3	26.5	19.8	13.1	8.1	4.1	0.0
-42.5°	39.4	25.2	18.8	12.3	7.8	3.9	0.0
-45°	34.3	23.9	17.7	11.5	7.4	3.7	0.0
-47.5°	28.9	22.5	16.6	10.7	7.1	3.6	0.0
-50°	26.6	21.1	15.5	10.1	6.8	3.4	0.0
-52.5°	24.8	19.6	14.3	9.6	6.4	3.2	0.0
-55°	23.0	18.0	13.0	9.0	6.1	3.0	0.0
-57.5°	21.0	16.4	11.7	8.5	5.7	2.8	0.0
-60°	19.1	14.8	10.5	7.9	5.3	2.6	0.0
-62.5°	17.1	13.1	9.7	7.3	4.9	2.4	0.0
-65°	15.0	11.4	8.9	6.7	4.5	2.2	0.0
-67.5°	12.9	10.0	8.0	6.1	4.1	2.0	0.0
-70°	10.8	8.9	7.2	5.4	3.6	1.8	0.0
-72.5°	9.4	7.9	6.3	4.8	3.2	1.6	0.0
-75°	8.1	6.8	5.5	4.1	2.7	1.4	0.0
-77.5°	6.8	5.7	4.6	3.4	2.3	1.1	0.0
-80°	5.5	4.6	3.7	2.8	1.8	0.9	0.0
-82.5°	4.1	3.4	2.8	2.1	1.4	0.7	0.0
-85°	2.7	2.3	1.8	1.4	0.9	0.5	0.0
-87.5°	1.4	1.1	0.9	0.7	0.5	0.2	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

