

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: P701496 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-57-80-4S-HEG-S**

Issue Date: 8/15/2023

Test Information

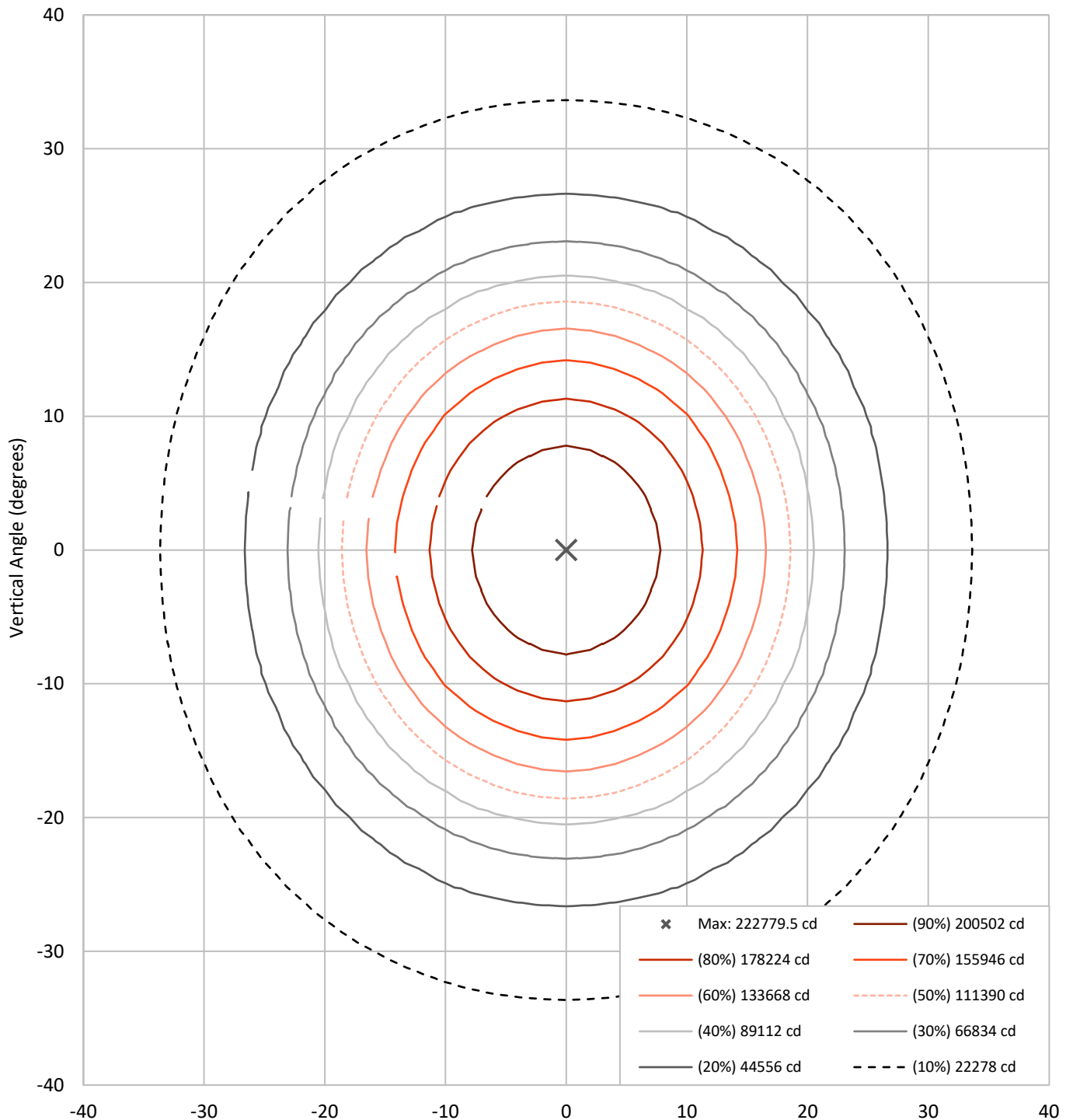
Test Method: LM-79-08
Report Number: P701496 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-4)
Test Lab: INNOVATION CENTER
Issue Date: 8/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680R-57-80-4S-HEG-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 5700K, 80 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:	102881.6 lumens	Max Intensity:	222779.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	147.5 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:	53559.3 lumens	Field Lumens:	89970.6 lumens
Beam Efficiency:	52.1%	Field Efficiency:	87.5%
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





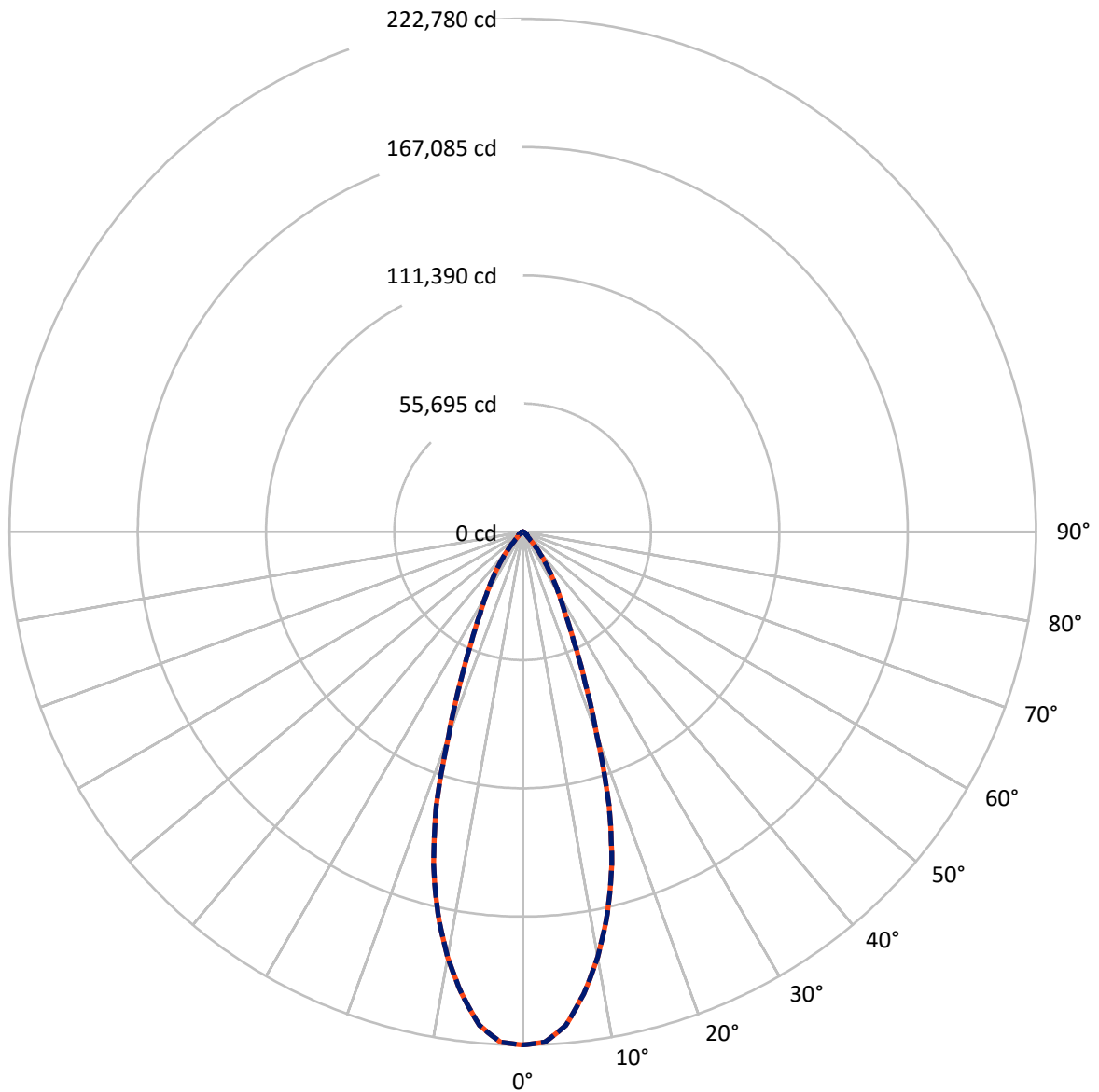
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Lumen Table

90																			
80	0.1	0.8		3.1		7.3		9.5		7.3		3.1		0.8		0.1			
70																			
60	0.4	0.5	1.8	5.1	10.7	17.4	23.2	26.5	26.5	23.2	17.4	10.7	5.1	1.8	0.5	0.4			
50		1.4	6.1	16.5	30.4	42.7	51.8	56.8	56.8	51.8	42.7	30.4	16.5	6.1	1.4				
40	1.0	3.2	13.5	30.8	47.9	66.5	95.6	126.1	126.1	95.6	66.5	47.9	30.8	13.5	3.2	1.0			
30		5.7	21.5	41.5	71.9	193.5	409.5	568.0	568.0	409.5	193.5	71.9	41.5	21.5	5.7				
20	2.1	8.4	27.3	52.1	176.2	550.6	1076.7	1601.1	1601.1	1076.7	550.6	176.2	52.1	27.3	8.4	2.1			
10		10.5	31.0	70.8	350.7	1013.8	2510.7	4121.5	4121.5	2510.7	1013.8	350.7	70.8	31.0	10.5				
0	2.6	11.7	33.0	91.2	472.0	1466.0	4005.0	6032.8	6032.8	4005.0	1466.0	472.0	91.2	33.0	11.7	2.6			
-10		11.7	33.0	91.2	472.0	1466.0	4005.0	6032.8	6032.8	4005.0	1466.0	472.0	91.2	33.0	11.7				
-20	2.1	10.5	31.0	70.8	350.7	1013.8	2510.7	4121.5	4121.5	2510.7	1013.8	350.7	70.8	31.0	10.5	2.1			
-30		8.4	27.3	52.1	176.2	550.6	1076.7	1601.1	1601.1	1076.7	550.6	176.2	52.1	27.3	8.4				
-40	1.0	5.7	21.5	41.5	71.9	193.5	409.5	568.0	568.0	409.5	193.5	71.9	41.5	21.5	5.7	1.0			
-50		3.2	13.5	30.8	47.9	66.5	95.6	126.1	126.1	95.6	66.5	47.9	30.8	13.5	3.2				
-60	0.4	1.4	6.1	16.5	30.4	42.7	51.8	56.8	56.8	51.8	42.7	30.4	16.5	6.1	1.4	0.4			
-70		0.5	1.8	5.1	10.7	17.4	23.2	26.5	26.5	23.2	17.4	10.7	5.1	1.8	0.5				
-80	0.1	0.8		3.1		7.3		9.5		7.3		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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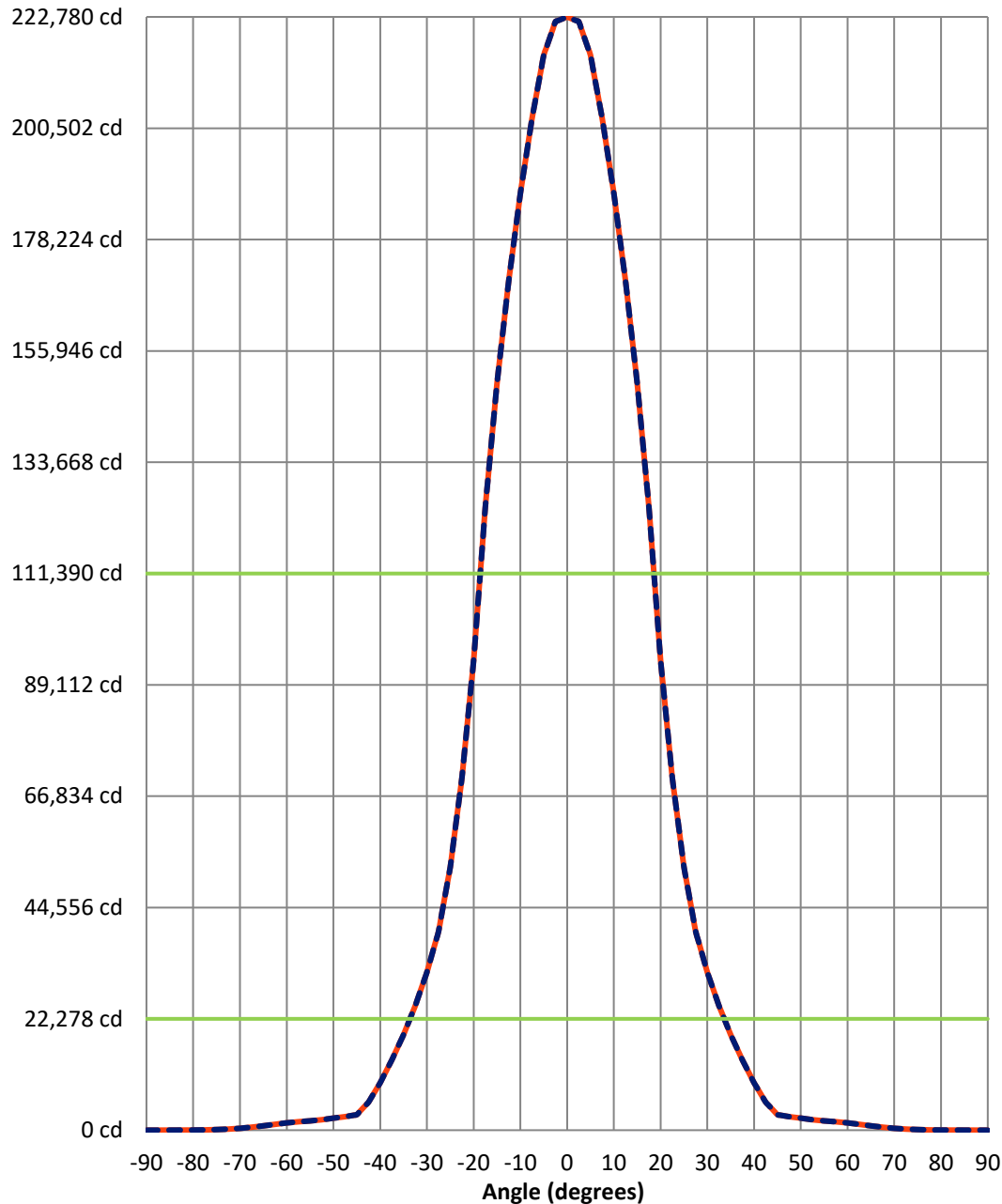
Luminous Intensity Polar Plot



— 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: 53559.3
Efficiency: 52.1%

Field:
H Angle: 67.2°
V Angle: 67.2°
Lumens: 89970.6
Efficiency: 87.5%

Spill:
Lumens: 12911
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	0.4	0.7	0.9	1.1	1.3	1.5	1.7	2.0	2.2
85°	0.0	0.4	0.9	1.3	1.8	2.2	2.6	3.1	3.5	3.9	4.3
82.5°	0.0	0.7	1.3	2.0	2.6	3.3	3.9	4.6	5.2	5.9	6.5
80°	0.0	0.9	1.8	2.6	3.5	4.4	5.3	6.1	7.0	7.8	8.7
77.5°	0.0	1.1	2.2	3.3	4.4	5.5	6.6	7.7	8.7	9.8	11.1
75°	0.0	1.3	2.6	3.9	5.3	6.6	7.9	9.2	10.6	12.6	14.7
72.5°	0.0	1.5	3.1	4.6	6.1	7.7	9.2	10.9	13.4	15.8	18.1
70°	0.0	1.7	3.5	5.2	7.0	8.7	10.6	13.4	16.1	18.9	21.6
67.5°	0.0	2.0	3.9	5.9	7.8	9.8	12.6	15.8	18.9	22.0	25.0
65°	0.0	2.2	4.3	6.5	8.7	11.1	14.7	18.1	21.6	25.0	30.6
62.5°	0.0	2.4	4.7	7.1	9.5	12.8	16.6	20.5	24.3	29.3	41.1
60°	0.0	2.5	5.1	7.7	10.3	14.4	18.6	22.7	26.9	38.7	51.5
57.5°	0.0	2.7	5.5	8.3	11.5	16.0	20.5	25.0	33.9	47.8	71.5
55°	0.0	2.9	5.9	8.8	12.7	17.5	22.4	27.2	41.8	59.6	95.6
52.5°	0.0	3.1	6.2	9.4	13.9	19.0	24.2	33.4	49.5	80.8	119.2
50°	0.0	3.3	6.6	9.9	15.1	20.5	25.9	39.9	60.1	101.3	149.8
47.5°	0.0	3.4	6.9	10.5	16.2	21.9	28.2	46.3	77.8	121.2	180.4
45°	0.0	3.6	7.2	11.3	17.3	23.3	33.4	52.4	94.8	147.5	209.9
42.5°	0.0	3.8	7.6	12.1	18.3	24.6	38.4	63.1	111.1	173.0	255.4
40°	0.0	3.9	7.9	12.8	19.3	25.8	43.1	76.7	128.6	197.3	301.6
37.5°	0.0	4.0	8.1	13.5	20.2	27.0	47.7	89.6	149.1	225.1	345.8
35°	0.0	4.2	8.4	14.2	21.1	29.7	52.0	101.8	168.6	262.5	394.6
32.5°	0.0	4.3	8.7	14.8	22.0	33.1	57.7	113.4	186.9	297.9	451.3
30°	0.0	4.4	8.9	15.4	22.8	36.2	66.9	125.1	204.1	330.9	504.5
27.5°	0.0	4.5	9.1	15.9	23.5	39.1	75.4	139.0	224.2	361.7	553.9
25°	0.0	4.6	9.3	16.4	24.1	41.8	83.3	151.8	249.2	398.1	600.0
22.5°	0.0	4.7	9.5	16.8	24.8	44.2	90.5	163.4	272.1	435.3	650.2
20°	0.0	4.8	9.7	17.3	25.3	46.4	96.9	173.9	292.7	468.9	695.6
17.5°	0.0	4.9	9.8	17.6	25.8	48.4	102.6	183.2	311.0	498.7	736.0
15°	0.0	4.9	9.9	17.9	26.2	50.1	107.6	191.4	326.9	524.8	771.2
12.5°	0.0	5.0	10.1	18.2	26.6	51.5	111.9	198.3	340.5	546.9	801.2
10°	0.0	5.0	10.1	18.4	26.9	52.7	115.4	204.0	351.7	565.1	825.9
7.5°	0.0	5.1	10.2	18.6	27.1	53.6	118.1	208.4	360.4	579.4	845.1
5°	0.0	5.1	10.3	18.7	27.3	54.3	120.0	211.6	366.6	589.5	858.9
2.5°	0.0	5.1	10.3	18.8	27.4	54.7	121.2	213.5	370.3	595.7	867.2
0°	0.0	5.1	10.3	18.8	27.4	54.7	121.2	213.5	370.3	595.7	867.2
-2.5°	0.0	5.1	10.3	18.8	27.4	54.7	121.2	213.5	370.3	595.7	867.2
-5°	0.0	5.1	10.3	18.7	27.3	54.3	120.0	211.6	366.6	589.5	858.9
-7.5°	0.0	5.1	10.2	18.6	27.1	53.6	118.1	208.4	360.4	579.4	845.1
-10°	0.0	5.0	10.1	18.4	26.9	52.7	115.4	204.0	351.7	565.1	825.9
-12.5°	0.0	5.0	10.1	18.2	26.6	51.5	111.9	198.3	340.5	546.9	801.2
-15°	0.0	4.9	9.9	17.9	26.2	50.1	107.6	191.4	326.9	524.8	771.2
-17.5°	0.0	4.9	9.8	17.6	25.8	48.4	102.6	183.2	311.0	498.7	736.0
-20°	0.0	4.8	9.7	17.3	25.3	46.4	96.9	173.9	292.7	468.9	695.6



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 CATALOG NUMBER: EPH-LS-08-0680R-57-80-4S-HEG-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	4.7	9.5	16.8	24.8	44.2	90.5	163.4	272.1	435.3	650.2
-25°	0.0	4.6	9.3	16.4	24.1	41.8	83.3	151.8	249.2	398.1	600.0
-27.5°	0.0	4.5	9.1	15.9	23.5	39.1	75.4	139.0	224.2	361.7	553.9
-30°	0.0	4.4	8.9	15.4	22.8	36.2	66.9	125.1	204.1	330.9	504.5
-32.5°	0.0	4.3	8.7	14.8	22.0	33.1	57.7	113.4	186.9	297.9	451.3
-35°	0.0	4.2	8.4	14.2	21.1	29.7	52.0	101.8	168.6	262.5	394.6
-37.5°	0.0	4.0	8.1	13.5	20.2	27.0	47.7	89.6	149.1	225.1	345.8
-40°	0.0	3.9	7.9	12.8	19.3	25.8	43.1	76.7	128.6	197.3	301.6
-42.5°	0.0	3.8	7.6	12.1	18.3	24.6	38.4	63.1	111.1	173.0	255.4
-45°	0.0	3.6	7.2	11.3	17.3	23.3	33.4	52.4	94.8	147.5	209.9
-47.5°	0.0	3.4	6.9	10.5	16.2	21.9	28.2	46.3	77.8	121.2	180.4
-50°	0.0	3.3	6.6	9.9	15.1	20.5	25.9	39.9	60.1	101.3	149.8
-52.5°	0.0	3.1	6.2	9.4	13.9	19.0	24.2	33.4	49.5	80.8	119.2
-55°	0.0	2.9	5.9	8.8	12.7	17.5	22.4	27.2	41.8	59.6	95.6
-57.5°	0.0	2.7	5.5	8.3	11.5	16.0	20.5	25.0	33.9	47.8	71.5
-60°	0.0	2.5	5.1	7.7	10.3	14.4	18.6	22.7	26.9	38.7	51.5
-62.5°	0.0	2.4	4.7	7.1	9.5	12.8	16.6	20.5	24.3	29.3	41.1
-65°	0.0	2.2	4.3	6.5	8.7	11.1	14.7	18.1	21.6	25.0	30.6
-67.5°	0.0	2.0	3.9	5.9	7.8	9.8	12.6	15.8	18.9	22.0	25.0
-70°	0.0	1.7	3.5	5.2	7.0	8.7	10.6	13.4	16.1	18.9	21.6
-72.5°	0.0	1.5	3.1	4.6	6.1	7.7	9.2	10.9	13.4	15.8	18.1
-75°	0.0	1.3	2.6	3.9	5.3	6.6	7.9	9.2	10.6	12.6	14.7
-77.5°	0.0	1.1	2.2	3.3	4.4	5.5	6.6	7.7	8.7	9.8	11.1
-80°	0.0	0.9	1.8	2.6	3.5	4.4	5.3	6.1	7.0	7.8	8.7
-82.5°	0.0	0.7	1.3	2.0	2.6	3.3	3.9	4.6	5.2	5.9	6.5
-85°	0.0	0.4	0.9	1.3	1.8	2.2	2.6	3.1	3.5	3.9	4.3
-87.5°	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.5	1.7	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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 CATALOG NUMBER: EPH-LS-08-0680R-57-80-4S-HEG-S

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	2.5	2.7	2.9	3.1	3.3	3.4	3.6	3.8	3.9	4.0
85°	4.7	5.1	5.5	5.9	6.2	6.6	6.9	7.2	7.6	7.9	8.1
82.5°	7.1	7.7	8.3	8.8	9.4	9.9	10.5	11.3	12.1	12.8	13.5
80°	9.5	10.3	11.5	12.7	13.9	15.1	16.2	17.3	18.3	19.3	20.2
77.5°	12.8	14.4	16.0	17.5	19.0	20.5	21.9	23.3	24.6	25.8	27.0
75°	16.6	18.6	20.5	22.4	24.2	25.9	28.2	33.4	38.4	43.1	47.7
72.5°	20.5	22.7	25.0	27.2	33.4	39.9	46.3	52.4	63.1	76.7	89.6
70°	24.3	26.9	33.9	41.8	49.5	60.1	77.8	94.8	111.1	128.6	149.1
67.5°	29.3	38.7	47.8	59.6	80.8	101.3	121.2	147.5	173.0	197.3	225.1
65°	41.1	51.5	71.5	95.6	119.2	149.8	180.4	209.9	255.4	301.6	345.8
62.5°	52.7	77.5	104.6	134.8	170.6	205.4	256.7	312.2	365.5	436.3	506.3
60°	77.5	107.6	143.2	183.2	228.0	292.7	355.4	435.3	519.2	600.0	692.5
57.5°	104.6	143.2	187.4	242.4	314.4	390.1	487.7	582.3	688.9	794.3	898.0
55°	134.8	183.2	242.4	321.7	411.1	519.4	630.3	753.2	872.0	999.1	1120.8
52.5°	170.6	228.0	314.4	411.1	530.1	656.0	792.1	930.2	1072.3	1207.8	1333.8
50°	205.4	292.7	390.1	519.4	656.0	805.1	959.5	1116.7	1265.0	1405.9	1523.2
47.5°	256.7	355.4	487.7	630.3	792.1	959.5	1131.5	1293.9	1449.7	1568.2	1678.9
45°	312.2	435.3	582.3	753.2	930.2	1116.7	1293.9	1464.3	1590.9	1707.5	1799.3
42.5°	365.5	519.2	688.9	872.0	1072.3	1265.0	1449.7	1590.9	1716.5	1817.5	1933.1
40°	436.3	600.0	794.3	999.1	1207.8	1405.9	1568.2	1707.5	1817.5	1945.5	2082.7
37.5°	506.3	692.5	898.0	1120.8	1333.8	1523.2	1678.9	1799.3	1933.1	2082.7	2284.5
35°	572.8	780.5	1004.9	1234.3	1454.0	1622.1	1763.1	1896.3	2057.5	2266.3	2474.7
32.5°	643.4	863.6	1106.0	1339.8	1543.7	1709.6	1841.6	2007.7	2212.2	2441.6	2644.4
30°	714.4	949.9	1200.1	1439.2	1626.1	1778.6	1934.1	2123.2	2371.7	2593.8	2845.3
27.5°	780.5	1031.0	1285.3	1516.1	1699.5	1843.4	2026.7	2263.5	2510.5	2750.8	3056.3
25°	841.6	1106.0	1364.3	1581.9	1755.1	1917.8	2122.5	2394.4	2636.3	2936.0	4069.2
22.5°	900.6	1174.6	1436.6	1642.4	1806.2	1991.3	2234.5	2504.5	2771.5	3150.4	5225.4
20°	956.8	1234.3	1493.2	1694.8	1852.5	2058.1	2336.5	2603.1	2917.6	4136.9	6679.7
17.5°	1006.8	1287.4	1537.8	1732.8	1905.0	2129.5	2426.4	2691.6	3049.1	5026.8	8179.4
15°	1050.5	1333.8	1576.9	1766.1	1953.2	2203.4	2498.3	2794.6	3508.5	5940.0	9516.0
12.5°	1087.7	1373.4	1610.2	1794.5	1994.4	2266.7	2559.8	2886.5	4133.1	6997.8	10871.0
10°	1118.4	1405.9	1637.7	1817.9	2028.4	2319.0	2610.7	2962.6	4651.1	7876.8	11999.4
7.5°	1142.3	1431.4	1659.1	1836.2	2055.0	2360.0	2650.7	3022.3	5058.5	8569.1	12889.9
5°	1159.4	1449.7	1674.5	1849.3	2074.1	2389.4	2679.4	3065.3	5352.0	9068.4	13533.2
2.5°	1169.8	1460.6	1683.8	1857.3	2085.6	2407.2	2696.7	3091.2	5529.1	9370.0	13922.1
0°	1173.2	1464.3	1686.9	1859.9	2089.4	2413.1	2702.5	3099.9	5588.3	9470.9	14052.2
-2.5°	1169.8	1460.6	1683.8	1857.3	2085.6	2407.2	2696.7	3091.2	5529.1	9370.0	13922.1
-5°	1159.4	1449.7	1674.5	1849.3	2074.1	2389.4	2679.4	3065.3	5352.0	9068.4	13533.2
-7.5°	1142.3	1431.4	1659.1	1836.2	2055.0	2360.0	2650.7	3022.3	5058.5	8569.1	12889.9
-10°	1118.4	1405.9	1637.7	1817.9	2028.4	2319.0	2610.7	2962.6	4651.1	7876.8	11999.4
-12.5°	1087.7	1373.4	1610.2	1794.5	1994.4	2266.7	2559.8	2886.5	4133.1	6997.8	10871.0
-15°	1050.5	1333.8	1576.9	1766.1	1953.2	2203.4	2498.3	2794.6	3508.5	5940.0	9516.0
-17.5°	1006.8	1287.4	1537.8	1732.8	1905.0	2129.5	2426.4	2691.6	3049.1	5026.8	8179.4
-20°	956.8	1234.3	1493.2	1694.8	1852.5	2058.1	2336.5	2603.1	2917.6	4136.9	6679.7



REPORT NUMBER: P701496 (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°	900.6	1174.6	1436.6	1642.4	1806.2	1991.3	2234.5	2504.5	2771.5	3150.4	5225.4
-25°	841.6	1106.0	1364.3	1581.9	1755.1	1917.8	2122.5	2394.4	2636.3	2936.0	4069.2
-27.5°	780.5	1031.0	1285.3	1516.1	1699.5	1843.4	2026.7	2263.5	2510.5	2750.8	3056.3
-30°	714.4	949.9	1200.1	1439.2	1626.1	1778.6	1934.1	2123.2	2371.7	2593.8	2845.3
-32.5°	643.4	863.6	1106.0	1339.8	1543.7	1709.6	1841.6	2007.7	2212.2	2441.6	2644.4
-35°	572.8	780.5	1004.9	1234.3	1454.0	1622.1	1763.1	1896.3	2057.5	2266.3	2474.7
-37.5°	506.3	692.5	898.0	1120.8	1333.8	1523.2	1678.9	1799.3	1933.1	2082.7	2284.5
-40°	436.3	600.0	794.3	999.1	1207.8	1405.9	1568.2	1707.5	1817.5	1945.5	2082.7
-42.5°	365.5	519.2	688.9	872.0	1072.3	1265.0	1449.7	1590.9	1716.5	1817.5	1933.1
-45°	312.2	435.3	582.3	753.2	930.2	1116.7	1293.9	1464.3	1590.9	1707.5	1799.3
-47.5°	256.7	355.4	487.7	630.3	792.1	959.5	1131.5	1293.9	1449.7	1568.2	1678.9
-50°	205.4	292.7	390.1	519.4	656.0	805.1	959.5	1116.7	1265.0	1405.9	1523.2
-52.5°	170.6	228.0	314.4	411.1	530.1	656.0	792.1	930.2	1072.3	1207.8	1333.8
-55°	134.8	183.2	242.4	321.7	411.1	519.4	630.3	753.2	872.0	999.1	1120.8
-57.5°	104.6	143.2	187.4	242.4	314.4	390.1	487.7	582.3	688.9	794.3	898.0
-60°	77.5	107.6	143.2	183.2	228.0	292.7	355.4	435.3	519.2	600.0	692.5
-62.5°	52.7	77.5	104.6	134.8	170.6	205.4	256.7	312.2	365.5	436.3	506.3
-65°	41.1	51.5	71.5	95.6	119.2	149.8	180.4	209.9	255.4	301.6	345.8
-67.5°	29.3	38.7	47.8	59.6	80.8	101.3	121.2	147.5	173.0	197.3	225.1
-70°	24.3	26.9	33.9	41.8	49.5	60.1	77.8	94.8	111.1	128.6	149.1
-72.5°	20.5	22.7	25.0	27.2	33.4	39.9	46.3	52.4	63.1	76.7	89.6
-75°	16.6	18.6	20.5	22.4	24.2	25.9	28.2	33.4	38.4	43.1	47.7
-77.5°	12.8	14.4	16.0	17.5	19.0	20.5	21.9	23.3	24.6	25.8	27.0
-80°	9.5	10.3	11.5	12.7	13.9	15.1	16.2	17.3	18.3	19.3	20.2
-82.5°	7.1	7.7	8.3	8.8	9.4	9.9	10.5	11.3	12.1	12.8	13.5
-85°	4.7	5.1	5.5	5.9	6.2	6.6	6.9	7.2	7.6	7.9	8.1
-87.5°	2.4	2.5	2.7	2.9	3.1	3.3	3.4	3.6	3.8	3.9	4.0
-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):

	-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°	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	4.9	5.0	5.0
85°	8.4	8.7	8.9	9.1	9.3	9.5	9.7	9.8	9.9	10.1	10.1
82.5°	14.2	14.8	15.4	15.9	16.4	16.8	17.3	17.6	17.9	18.2	18.4
80°	21.1	22.0	22.8	23.5	24.1	24.8	25.3	25.8	26.2	26.6	26.9
77.5°	29.7	33.1	36.2	39.1	41.8	44.2	46.4	48.4	50.1	51.5	52.7
75°	52.0	57.7	66.9	75.4	83.3	90.5	96.9	102.6	107.6	111.9	115.4
72.5°	101.8	113.4	125.1	139.0	151.8	163.4	173.9	183.2	191.4	198.3	204.0
70°	168.6	186.9	204.1	224.2	249.2	272.1	292.7	311.0	326.9	340.5	351.7
67.5°	262.5	297.9	330.9	361.7	398.1	435.3	468.9	498.7	524.8	546.9	565.1
65°	394.6	451.3	504.5	553.9	600.0	650.2	695.6	736.0	771.2	801.2	825.9
62.5°	572.8	643.4	714.4	780.5	841.6	900.6	956.8	1006.8	1050.5	1087.7	1118.4
60°	780.5	863.6	949.9	1031.0	1106.0	1174.6	1234.3	1287.4	1333.8	1373.4	1405.9
57.5°	1004.9	1106.0	1200.1	1285.3	1364.3	1436.6	1493.2	1537.8	1576.9	1610.2	1637.7
55°	1234.3	1339.8	1439.2	1516.1	1581.9	1642.4	1694.8	1732.8	1766.1	1794.5	1817.9
52.5°	1454.0	1543.7	1626.1	1699.5	1755.1	1806.2	1852.5	1905.0	1953.2	1994.4	2028.4
50°	1622.1	1709.6	1778.6	1843.4	1917.8	1991.3	2058.1	2129.5	2203.4	2266.7	2319.0
47.5°	1763.1	1841.6	1934.1	2026.7	2122.5	2234.5	2336.5	2426.4	2498.3	2559.8	2610.7
45°	1896.3	2007.7	2123.2	2263.5	2394.4	2504.5	2603.1	2691.6	2794.6	2886.5	2962.6
42.5°	2057.5	2212.2	2371.7	2510.5	2636.3	2771.5	2917.6	3049.1	3508.5	4133.1	4651.1
40°	2266.3	2441.6	2593.8	2750.8	2936.0	3150.4	4136.9	5026.8	5940.0	6997.8	7876.8
37.5°	2474.7	2644.4	2845.3	3056.3	4069.2	5225.4	6679.7	8179.4	9516.0	10871.0	11999.4
35°	2661.4	2893.0	3285.7	4694.3	6266.3	8201.6	10078.5	11989.1	13688.5	15272.8	16626.3
32.5°	2893.0	3439.8	5010.8	7026.2	9239.8	11645.5	13910.1	16167.6	18195.7	20083.6	21774.6
30°	3285.7	5010.8	7281.7	9819.4	12604.7	15343.7	18025.3	20679.1	23198.1	25481.5	27631.5
27.5°	4694.3	7026.2	9819.4	12927.7	16079.7	19175.9	22476.3	25614.3	28794.5	31584.0	34455.1
25°	6266.3	9239.8	12604.7	16079.7	19616.6	23392.4	27273.0	31085.2	35187.3	38906.2	43361.6
22.5°	8201.6	11645.5	15343.7	19175.9	23392.4	27833.7	32402.3	37423.7	43270.2	49665.6	56115.0
20°	10078.5	13910.1	18025.3	22476.3	27273.0	32402.3	38182.3	45774.4	53981.6	63759.5	72721.8
17.5°	11989.1	16167.6	20679.1	25614.3	31085.2	37423.7	45774.4	55850.6	67722.8	80959.3	93295.6
15°	13688.5	18195.7	23198.1	28794.5	35187.3	43270.2	53981.6	67722.8	83784.7	100977.3	119003.2
12.5°	15272.8	20083.6	25481.5	31584.0	38906.2	49665.6	63759.5	80959.3	100977.3	123381.3	139958.6
10°	16626.3	21774.6	27631.5	34455.1	43361.6	56115.0	72721.8	93295.6	119003.2	139958.6	157038.0
7.5°	17696.9	23115.9	29342.6	36751.9	47346.3	62278.6	81762.3	106377.2	132296.6	153294.1	170086.5
5°	18471.6	24088.6	30587.0	38428.0	50267.0	66822.6	88478.9	116367.0	141588.9	162439.1	179392.9
2.5°	18940.6	24678.4	31342.9	39448.6	52051.2	69610.3	92623.4	122581.9	147439.6	168050.7	185353.9
0°	19097.6	24876.0	31596.4	39791.4	52651.5	70550.3	94025.3	124693.5	149441.1	169911.3	187461.5
-2.5°	18940.6	24678.4	31342.9	39448.6	52051.2	69610.3	92623.4	122581.9	147439.6	168050.7	185353.9
-5°	18471.6	24088.6	30587.0	38428.0	50267.0	66822.6	88478.9	116367.0	141588.9	162439.1	179392.9
-7.5°	17696.9	23115.9	29342.6	36751.9	47346.3	62278.6	81762.3	106377.2	132296.6	153294.1	170086.5
-10°	16626.3	21774.6	27631.5	34455.1	43361.6	56115.0	72721.8	93295.6	119003.2	139958.6	157038.0
-12.5°	15272.8	20083.6	25481.5	31584.0	38906.2	49665.6	63759.5	80959.3	100977.3	123381.3	139958.6
-15°	13688.5	18195.7	23198.1	28794.5	35187.3	43270.2	53981.6	67722.8	83784.7	100977.3	119003.2
-17.5°	11989.1	16167.6	20679.1	25614.3	31085.2	37423.7	45774.4	55850.6	67722.8	80959.3	93295.6
-20°	10078.5	13910.1	18025.3	22476.3	27273.0	32402.3	38182.3	45774.4	53981.6	63759.5	72721.8



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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°	8201.6	11645.5	15343.7	19175.9	23392.4	27833.7	32402.3	37423.7	43270.2	49665.6	56115.0
-25°	6266.3	9239.8	12604.7	16079.7	19616.6	23392.4	27273.0	31085.2	35187.3	38906.2	43361.6
-27.5°	4694.3	7026.2	9819.4	12927.7	16079.7	19175.9	22476.3	25614.3	28794.5	31584.0	34455.1
-30°	3285.7	5010.8	7281.7	9819.4	12604.7	15343.7	18025.3	20679.1	23198.1	25481.5	27631.5
-32.5°	2893.0	3439.8	5010.8	7026.2	9239.8	11645.5	13910.1	16167.6	18195.7	20083.6	21774.6
-35°	2661.4	2893.0	3285.7	4694.3	6266.3	8201.6	10078.5	11989.1	13688.5	15272.8	16626.3
-37.5°	2474.7	2644.4	2845.3	3056.3	4069.2	5225.4	6679.7	8179.4	9516.0	10871.0	11999.4
-40°	2266.3	2441.6	2593.8	2750.8	2936.0	3150.4	4136.9	5026.8	5940.0	6997.8	7876.8
-42.5°	2057.5	2212.2	2371.7	2510.5	2636.3	2771.5	2917.6	3049.1	3508.5	4133.1	4651.1
-45°	1896.3	2007.7	2123.2	2263.5	2394.4	2504.5	2603.1	2691.6	2794.6	2886.5	2962.6
-47.5°	1763.1	1841.6	1934.1	2026.7	2122.5	2234.5	2336.5	2426.4	2498.3	2559.8	2610.7
-50°	1622.1	1709.6	1778.6	1843.4	1917.8	1991.3	2058.1	2129.5	2203.4	2266.7	2319.0
-52.5°	1454.0	1543.7	1626.1	1699.5	1755.1	1806.2	1852.5	1905.0	1953.2	1994.4	2028.4
-55°	1234.3	1339.8	1439.2	1516.1	1581.9	1642.4	1694.8	1732.8	1766.1	1794.5	1817.9
-57.5°	1004.9	1106.0	1200.1	1285.3	1364.3	1436.6	1493.2	1537.8	1576.9	1610.2	1637.7
-60°	780.5	863.6	949.9	1031.0	1106.0	1174.6	1234.3	1287.4	1333.8	1373.4	1405.9
-62.5°	572.8	643.4	714.4	780.5	841.6	900.6	956.8	1006.8	1050.5	1087.7	1118.4
-65°	394.6	451.3	504.5	553.9	600.0	650.2	695.6	736.0	771.2	801.2	825.9
-67.5°	262.5	297.9	330.9	361.7	398.1	435.3	468.9	498.7	524.8	546.9	565.1
-70°	168.6	186.9	204.1	224.2	249.2	272.1	292.7	311.0	326.9	340.5	351.7
-72.5°	101.8	113.4	125.1	139.0	151.8	163.4	173.9	183.2	191.4	198.3	204.0
-75°	52.0	57.7	66.9	75.4	83.3	90.5	96.9	102.6	107.6	111.9	115.4
-77.5°	29.7	33.1	36.2	39.1	41.8	44.2	46.4	48.4	50.1	51.5	52.7
-80°	21.1	22.0	22.8	23.5	24.1	24.8	25.3	25.8	26.2	26.6	26.9
-82.5°	14.2	14.8	15.4	15.9	16.4	16.8	17.3	17.6	17.9	18.2	18.4
-85°	8.4	8.7	8.9	9.1	9.3	9.5	9.7	9.8	9.9	10.1	10.1
-87.5°	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	4.9	5.0	5.0
-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: P701496 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-57-80-4S-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°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.0	5.0	4.9	4.9
85°	10.2	10.3	10.3	10.3	10.3	10.3	10.2	10.1	10.1	9.9	9.8
82.5°	18.6	18.7	18.8	18.8	18.8	18.7	18.6	18.4	18.2	17.9	17.6
80°	27.1	27.3	27.4	27.4	27.4	27.3	27.1	26.9	26.6	26.2	25.8
77.5°	53.6	54.3	54.7	54.8	54.7	54.3	53.6	52.7	51.5	50.1	48.4
75°	118.1	120.0	121.2	121.6	121.2	120.0	118.1	115.4	111.9	107.6	102.6
72.5°	208.4	211.6	213.5	214.1	213.5	211.6	208.4	204.0	198.3	191.4	183.2
70°	360.4	366.6	370.3	371.6	370.3	366.6	360.4	351.7	340.5	326.9	311.0
67.5°	579.4	589.5	595.7	597.7	595.7	589.5	579.4	565.1	546.9	524.8	498.7
65°	845.1	858.9	867.2	870.0	867.2	858.9	845.1	825.9	801.2	771.2	736.0
62.5°	1142.3	1159.4	1169.8	1173.2	1169.8	1159.4	1142.3	1118.4	1087.7	1050.5	1006.8
60°	1431.4	1449.7	1460.6	1464.3	1460.6	1449.7	1431.4	1405.9	1373.4	1333.8	1287.4
57.5°	1659.1	1674.5	1683.8	1686.9	1683.8	1674.5	1659.1	1637.7	1610.2	1576.9	1537.8
55°	1836.2	1849.3	1857.3	1859.9	1857.3	1849.3	1836.2	1817.9	1794.5	1766.1	1732.8
52.5°	2055.0	2074.1	2085.6	2089.4	2085.6	2074.1	2055.0	2028.4	1994.4	1953.2	1905.0
50°	2360.0	2389.4	2407.2	2413.1	2407.2	2389.4	2360.0	2319.0	2266.7	2203.4	2129.5
47.5°	2650.7	2679.4	2696.7	2702.5	2696.7	2679.4	2650.7	2610.7	2559.8	2498.3	2426.4
45°	3022.3	3065.3	3091.2	3099.9	3091.2	3065.3	3022.3	2962.6	2886.5	2794.6	2691.6
42.5°	5058.5	5352.0	5529.1	5588.3	5529.1	5352.0	5058.5	4651.1	4133.1	3508.5	3049.1
40°	8569.1	9068.4	9370.0	9470.9	9370.0	9068.4	8569.1	7876.8	6997.8	5940.0	5026.8
37.5°	12889.9	13533.2	13922.1	14052.2	13922.1	13533.2	12889.9	11999.4	10871.0	9516.0	8179.4
35°	17696.9	18471.6	18940.6	19097.6	18940.6	18471.6	17696.9	16626.3	15272.8	13688.5	11989.1
32.5°	23115.9	24088.6	24678.4	24876.0	24678.4	24088.6	23115.9	21774.6	20083.6	18195.7	16167.6
30°	29342.6	30587.0	31342.9	31596.4	31342.9	30587.0	29342.6	27631.5	25481.5	23198.1	20679.1
27.5°	36751.9	38428.0	39448.6	39791.4	39448.6	38428.0	36751.9	34455.1	31584.0	28794.5	25614.3
25°	47346.3	50267.0	52051.2	52651.5	52051.2	50267.0	47346.3	43361.6	38906.2	35187.3	31085.2
22.5°	62278.6	66822.6	69610.3	70550.3	69610.3	66822.6	62278.6	56115.0	49665.6	43270.2	37423.7
20°	81762.3	88478.9	92623.4	94025.3	92623.4	88478.9	81762.3	72721.8	63759.5	53981.6	45774.4
17.5°	106377.2	116367.0	122581.9	124693.5	122581.9	116367.0	106377.2	93295.6	80959.3	67722.8	55850.6
15°	132296.6	141588.9	147439.6	149441.1	147439.6	141588.9	132296.6	119003.2	100977.3	83784.7	67722.8
12.5°	153294.1	162439.1	168050.7	169911.3	168050.7	162439.1	153294.1	139958.6	123381.3	100977.3	80959.3
10°	170086.5	179392.9	185353.9	187461.5	185353.9	179392.9	170086.5	157038.0	139958.6	119003.2	93295.6
7.5°	183370.5	193874.7	200236.9	202501.1	200236.9	193874.7	183370.5	170086.5	153294.1	132296.6	106377.2
5°	193874.7	204933.6	212463.9	215113.7	212463.9	204933.6	193874.7	179392.9	162439.1	141588.9	116367.0
2.5°	200236.9	212463.9	219738.2	221828.2	219738.2	212463.9	200236.9	185353.9	168050.7	147439.6	122581.9
0°	202501.1	215113.7	221828.2	222779.5	221828.2	215113.7	202501.1	187461.5	169911.3	149441.1	124693.5
-2.5°	200236.9	212463.9	219738.2	221828.2	219738.2	212463.9	200236.9	185353.9	168050.7	147439.6	122581.9
-5°	193874.7	204933.6	212463.9	215113.7	212463.9	204933.6	193874.7	179392.9	162439.1	141588.9	116367.0
-7.5°	183370.5	193874.7	200236.9	202501.1	200236.9	193874.7	183370.5	170086.5	153294.1	132296.6	106377.2
-10°	170086.5	179392.9	185353.9	187461.5	185353.9	179392.9	170086.5	157038.0	139958.6	119003.2	93295.6
-12.5°	153294.1	162439.1	168050.7	169911.3	168050.7	162439.1	153294.1	139958.6	123381.3	100977.3	80959.3
-15°	132296.6	141588.9	147439.6	149441.1	147439.6	141588.9	132296.6	119003.2	100977.3	83784.7	67722.8
-17.5°	106377.2	116367.0	122581.9	124693.5	122581.9	116367.0	106377.2	93295.6	80959.3	67722.8	55850.6
-20°	81762.3	88478.9	92623.4	94025.3	92623.4	88478.9	81762.3	72721.8	63759.5	53981.6	45774.4



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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°	62278.6	66822.6	69610.3	70550.3	69610.3	66822.6	62278.6	56115.0	49665.6	43270.2	37423.7
-25°	47346.3	50267.0	52051.2	52651.5	52051.2	50267.0	47346.3	43361.6	38906.2	35187.3	31085.2
-27.5°	36751.9	38428.0	39448.6	39791.4	39448.6	38428.0	36751.9	34455.1	31584.0	28794.5	25614.3
-30°	29342.6	30587.0	31342.9	31596.4	31342.9	30587.0	29342.6	27631.5	25481.5	23198.1	20679.1
-32.5°	23115.9	24088.6	24678.4	24876.0	24678.4	24088.6	23115.9	21774.6	20083.6	18195.7	16167.6
-35°	17696.9	18471.6	18940.6	19097.6	18940.6	18471.6	17696.9	16626.3	15272.8	13688.5	11989.1
-37.5°	12889.9	13533.2	13922.1	14052.2	13922.1	13533.2	12889.9	11999.4	10871.0	9516.0	8179.4
-40°	8569.1	9068.4	9370.0	9470.9	9370.0	9068.4	8569.1	7876.8	6997.8	5940.0	5026.8
-42.5°	5058.5	5352.0	5529.1	5588.3	5529.1	5352.0	5058.5	4651.1	4133.1	3508.5	3049.1
-45°	3022.3	3065.3	3091.2	3099.9	3091.2	3065.3	3022.3	2962.6	2886.5	2794.6	2691.6
-47.5°	2650.7	2679.4	2696.7	2702.5	2696.7	2679.4	2650.7	2610.7	2559.8	2498.3	2426.4
-50°	2360.0	2389.4	2407.2	2413.1	2407.2	2389.4	2360.0	2319.0	2266.7	2203.4	2129.5
-52.5°	2055.0	2074.1	2085.6	2089.4	2085.6	2074.1	2055.0	2028.4	1994.4	1953.2	1905.0
-55°	1836.2	1849.3	1857.3	1859.9	1857.3	1849.3	1836.2	1817.9	1794.5	1766.1	1732.8
-57.5°	1659.1	1674.5	1683.8	1686.9	1683.8	1674.5	1659.1	1637.7	1610.2	1576.9	1537.8
-60°	1431.4	1449.7	1460.6	1464.3	1460.6	1449.7	1431.4	1405.9	1373.4	1333.8	1287.4
-62.5°	1142.3	1159.4	1169.8	1173.2	1169.8	1159.4	1142.3	1118.4	1087.7	1050.5	1006.8
-65°	845.1	858.9	867.2	870.0	867.2	858.9	845.1	825.9	801.2	771.2	736.0
-67.5°	579.4	589.5	595.7	597.7	595.7	589.5	579.4	565.1	546.9	524.8	498.7
-70°	360.4	366.6	370.3	371.6	370.3	366.6	360.4	351.7	340.5	326.9	311.0
-72.5°	208.4	211.6	213.5	214.1	213.5	211.6	208.4	204.0	198.3	191.4	183.2
-75°	118.1	120.0	121.2	121.6	121.2	120.0	118.1	115.4	111.9	107.6	102.6
-77.5°	53.6	54.3	54.7	54.8	54.7	54.3	53.6	52.7	51.5	50.1	48.4
-80°	27.1	27.3	27.4	27.4	27.4	27.3	27.1	26.9	26.6	26.2	25.8
-82.5°	18.6	18.7	18.8	18.8	18.8	18.7	18.6	18.4	18.2	17.9	17.6
-85°	10.2	10.3	10.3	10.3	10.3	10.3	10.2	10.1	10.1	9.9	9.8
-87.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.0	5.0	4.9	4.9
-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°	4.8	4.7	4.6	4.5	4.4	4.3	4.2	4.0	3.9	3.8	3.6
85°	9.7	9.5	9.3	9.1	8.9	8.7	8.4	8.1	7.9	7.6	7.2
82.5°	17.3	16.8	16.4	15.9	15.4	14.8	14.2	13.5	12.8	12.1	11.3
80°	25.3	24.8	24.1	23.5	22.8	22.0	21.1	20.2	19.3	18.3	17.3
77.5°	46.4	44.2	41.8	39.1	36.2	33.1	29.7	27.0	25.8	24.6	23.3
75°	96.9	90.5	83.3	75.4	66.9	57.7	52.0	47.7	43.1	38.4	33.4
72.5°	173.9	163.4	151.8	139.0	125.1	113.4	101.8	89.6	76.7	63.1	52.4
70°	292.7	272.1	249.2	224.2	204.1	186.9	168.6	149.1	128.6	111.1	94.8
67.5°	468.9	435.3	398.1	361.7	330.9	297.9	262.5	225.1	197.3	173.0	147.5
65°	695.6	650.2	600.0	553.9	504.5	451.3	394.6	345.8	301.6	255.4	209.9
62.5°	956.8	900.6	841.6	780.5	714.4	643.4	572.8	506.3	436.3	365.5	312.2
60°	1234.3	1174.6	1106.0	1031.0	949.9	863.6	780.5	692.5	600.0	519.2	435.3
57.5°	1493.2	1436.6	1364.3	1285.3	1200.1	1106.0	1004.9	898.0	794.3	688.9	582.3
55°	1694.8	1642.4	1581.9	1516.1	1439.2	1339.8	1234.3	1120.8	999.1	872.0	753.2
52.5°	1852.5	1806.2	1755.1	1699.5	1626.1	1543.7	1454.0	1333.8	1207.8	1072.3	930.2
50°	2058.1	1991.3	1917.8	1843.4	1778.6	1709.6	1622.1	1523.2	1405.9	1265.0	1116.7
47.5°	2336.5	2234.5	2122.5	2026.7	1934.1	1841.6	1763.1	1678.9	1568.2	1449.7	1293.9
45°	2603.1	2504.5	2394.4	2263.5	2123.2	2007.7	1896.3	1799.3	1707.5	1590.9	1464.3
42.5°	2917.6	2771.5	2636.3	2510.5	2371.7	2212.2	2057.5	1933.1	1817.5	1716.5	1590.9
40°	4136.9	3150.4	2936.0	2750.8	2593.8	2441.6	2266.3	2082.7	1945.5	1817.5	1707.5
37.5°	6679.7	5225.4	4069.2	3056.3	2845.3	2644.4	2474.7	2284.5	2082.7	1933.1	1799.3
35°	10078.5	8201.6	6266.3	4694.3	3285.7	2893.0	2661.4	2474.7	2266.3	2057.5	1896.3
32.5°	13910.1	11645.5	9239.8	7026.2	5010.8	3439.8	2893.0	2644.4	2441.6	2212.2	2007.7
30°	18025.3	15343.7	12604.7	9819.4	7281.7	5010.8	3285.7	2845.3	2593.8	2371.7	2123.2
27.5°	22476.3	19175.9	16079.7	12927.7	9819.4	7026.2	4694.3	3056.3	2750.8	2510.5	2263.5
25°	27273.0	23392.4	19616.6	16079.7	12604.7	9239.8	6266.3	4069.2	2936.0	2636.3	2394.4
22.5°	32402.3	27833.7	23392.4	19175.9	15343.7	11645.5	8201.6	5225.4	3150.4	2771.5	2504.5
20°	38182.3	32402.3	27273.0	22476.3	18025.3	13910.1	10078.5	6679.7	4136.9	2917.6	2603.1
17.5°	45774.4	37423.7	31085.2	25614.3	20679.1	16167.6	11989.1	8179.4	5026.8	3049.1	2691.6
15°	53981.6	43270.2	35187.3	28794.5	23198.1	18195.7	13688.5	9516.0	5940.0	3508.5	2794.6
12.5°	63759.5	49665.6	38906.2	31584.0	25481.5	20083.6	15272.8	10871.0	6997.8	4133.1	2886.5
10°	72721.8	56115.0	43361.6	34455.1	27631.5	21774.6	16626.3	11999.4	7876.8	4651.1	2962.6
7.5°	81762.3	62278.6	47346.3	36751.9	29342.6	23115.9	17696.9	12889.9	8569.1	5058.5	3022.3
5°	88478.9	66822.6	50267.0	38428.0	30587.0	24088.6	18471.6	13533.2	9068.4	5352.0	3065.3
2.5°	92623.4	69610.3	52051.2	39448.6	31342.9	24678.4	18940.6	13922.1	9370.0	5529.1	3091.2
0°	94025.3	70550.3	52651.5	39791.4	31596.4	24876.0	19097.6	14052.2	9470.9	5588.3	3099.9
-2.5°	92623.4	69610.3	52051.2	39448.6	31342.9	24678.4	18940.6	13922.1	9370.0	5529.1	3091.2
-5°	88478.9	66822.6	50267.0	38428.0	30587.0	24088.6	18471.6	13533.2	9068.4	5352.0	3065.3
-7.5°	81762.3	62278.6	47346.3	36751.9	29342.6	23115.9	17696.9	12889.9	8569.1	5058.5	3022.3
-10°	72721.8	56115.0	43361.6	34455.1	27631.5	21774.6	16626.3	11999.4	7876.8	4651.1	2962.6
-12.5°	63759.5	49665.6	38906.2	31584.0	25481.5	20083.6	15272.8	10871.0	6997.8	4133.1	2886.5
-15°	53981.6	43270.2	35187.3	28794.5	23198.1	18195.7	13688.5	9516.0	5940.0	3508.5	2794.6
-17.5°	45774.4	37423.7	31085.2	25614.3	20679.1	16167.6	11989.1	8179.4	5026.8	3049.1	2691.6
-20°	38182.3	32402.3	27273.0	22476.3	18025.3	13910.1	10078.5	6679.7	4136.9	2917.6	2603.1



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 CATALOG NUMBER: EPH-LS-08-0680R-57-80-4S-HEG-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	32402.3	27833.7	23392.4	19175.9	15343.7	11645.5	8201.6	5225.4	3150.4	2771.5	2504.5
-25°	27273.0	23392.4	19616.6	16079.7	12604.7	9239.8	6266.3	4069.2	2936.0	2636.3	2394.4
-27.5°	22476.3	19175.9	16079.7	12927.7	9819.4	7026.2	4694.3	3056.3	2750.8	2510.5	2263.5
-30°	18025.3	15343.7	12604.7	9819.4	7281.7	5010.8	3285.7	2845.3	2593.8	2371.7	2123.2
-32.5°	13910.1	11645.5	9239.8	7026.2	5010.8	3439.8	2893.0	2644.4	2441.6	2212.2	2007.7
-35°	10078.5	8201.6	6266.3	4694.3	3285.7	2893.0	2661.4	2474.7	2266.3	2057.5	1896.3
-37.5°	6679.7	5225.4	4069.2	3056.3	2845.3	2644.4	2474.7	2284.5	2082.7	1933.1	1799.3
-40°	4136.9	3150.4	2936.0	2750.8	2593.8	2441.6	2266.3	2082.7	1945.5	1817.5	1707.5
-42.5°	2917.6	2771.5	2636.3	2510.5	2371.7	2212.2	2057.5	1933.1	1817.5	1716.5	1590.9
-45°	2603.1	2504.5	2394.4	2263.5	2123.2	2007.7	1896.3	1799.3	1707.5	1590.9	1464.3
-47.5°	2336.5	2234.5	2122.5	2026.7	1934.1	1841.6	1763.1	1678.9	1568.2	1449.7	1293.9
-50°	2058.1	1991.3	1917.8	1843.4	1778.6	1709.6	1622.1	1523.2	1405.9	1265.0	1116.7
-52.5°	1852.5	1806.2	1755.1	1699.5	1626.1	1543.7	1454.0	1333.8	1207.8	1072.3	930.2
-55°	1694.8	1642.4	1581.9	1516.1	1439.2	1339.8	1234.3	1120.8	999.1	872.0	753.2
-57.5°	1493.2	1436.6	1364.3	1285.3	1200.1	1106.0	1004.9	898.0	794.3	688.9	582.3
-60°	1234.3	1174.6	1106.0	1031.0	949.9	863.6	780.5	692.5	600.0	519.2	435.3
-62.5°	956.8	900.6	841.6	780.5	714.4	643.4	572.8	506.3	436.3	365.5	312.2
-65°	695.6	650.2	600.0	553.9	504.5	451.3	394.6	345.8	301.6	255.4	209.9
-67.5°	468.9	435.3	398.1	361.7	330.9	297.9	262.5	225.1	197.3	173.0	147.5
-70°	292.7	272.1	249.2	224.2	204.1	186.9	168.6	149.1	128.6	111.1	94.8
-72.5°	173.9	163.4	151.8	139.0	125.1	113.4	101.8	89.6	76.7	63.1	52.4
-75°	96.9	90.5	83.3	75.4	66.9	57.7	52.0	47.7	43.1	38.4	33.4
-77.5°	46.4	44.2	41.8	39.1	36.2	33.1	29.7	27.0	25.8	24.6	23.3
-80°	25.3	24.8	24.1	23.5	22.8	22.0	21.1	20.2	19.3	18.3	17.3
-82.5°	17.3	16.8	16.4	15.9	15.4	14.8	14.2	13.5	12.8	12.1	11.3
-85°	9.7	9.5	9.3	9.1	8.9	8.7	8.4	8.1	7.9	7.6	7.2
-87.5°	4.8	4.7	4.6	4.5	4.4	4.3	4.2	4.0	3.9	3.8	3.6
-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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 CATALOG NUMBER: EPH-LS-08-0680R-57-80-4S-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°	3.4	3.3	3.1	2.9	2.7	2.5	2.4	2.2	2.0	1.7	1.5
85°	6.9	6.6	6.2	5.9	5.5	5.1	4.7	4.3	3.9	3.5	3.1
82.5°	10.5	9.9	9.4	8.8	8.3	7.7	7.1	6.5	5.9	5.2	4.6
80°	16.2	15.1	13.9	12.7	11.5	10.3	9.5	8.7	7.8	7.0	6.1
77.5°	21.9	20.5	19.0	17.5	16.0	14.4	12.8	11.1	9.8	8.7	7.7
75°	28.2	25.9	24.2	22.4	20.5	18.6	16.6	14.7	12.6	10.6	9.2
72.5°	46.3	39.9	33.4	27.2	25.0	22.7	20.5	18.1	15.8	13.4	10.9
70°	77.8	60.1	49.5	41.8	33.9	26.9	24.3	21.6	18.9	16.1	13.4
67.5°	121.2	101.3	80.8	59.6	47.8	38.7	29.3	25.0	22.0	18.9	15.8
65°	180.4	149.8	119.2	95.6	71.5	51.5	41.1	30.6	25.0	21.6	18.1
62.5°	256.7	205.4	170.6	134.8	104.6	77.5	52.7	41.1	29.3	24.3	20.5
60°	355.4	292.7	228.0	183.2	143.2	107.6	77.5	51.5	38.7	26.9	22.7
57.5°	487.7	390.1	314.4	242.4	187.4	143.2	104.6	71.5	47.8	33.9	25.0
55°	630.3	519.4	411.1	321.7	242.4	183.2	134.8	95.6	59.6	41.8	27.2
52.5°	792.1	656.0	530.1	411.1	314.4	228.0	170.6	119.2	80.8	49.5	33.4
50°	959.5	805.1	656.0	519.4	390.1	292.7	205.4	149.8	101.3	60.1	39.9
47.5°	1131.5	959.5	792.1	630.3	487.7	355.4	256.7	180.4	121.2	77.8	46.3
45°	1293.9	1116.7	930.2	753.2	582.3	435.3	312.2	209.9	147.5	94.8	52.4
42.5°	1449.7	1265.0	1072.3	872.0	688.9	519.2	365.5	255.4	173.0	111.1	63.1
40°	1568.2	1405.9	1207.8	999.1	794.3	600.0	436.3	301.6	197.3	128.6	76.7
37.5°	1678.9	1523.2	1333.8	1120.8	898.0	692.5	506.3	345.8	225.1	149.1	89.6
35°	1763.1	1622.1	1454.0	1234.3	1004.9	780.5	572.8	394.6	262.5	168.6	101.8
32.5°	1841.6	1709.6	1543.7	1339.8	1106.0	863.6	643.4	451.3	297.9	186.9	113.4
30°	1934.1	1778.6	1626.1	1439.2	1200.1	949.9	714.4	504.5	330.9	204.1	125.1
27.5°	2026.7	1843.4	1699.5	1516.1	1285.3	1031.0	780.5	553.9	361.7	224.2	139.0
25°	2122.5	1917.8	1755.1	1581.9	1364.3	1106.0	841.6	600.0	398.1	249.2	151.8
22.5°	2234.5	1991.3	1806.2	1642.4	1436.6	1174.6	900.6	650.2	435.3	272.1	163.4
20°	2336.5	2058.1	1852.5	1694.8	1493.2	1234.3	956.8	695.6	468.9	292.7	173.9
17.5°	2426.4	2129.5	1905.0	1732.8	1537.8	1287.4	1006.8	736.0	498.7	311.0	183.2
15°	2498.3	2203.4	1953.2	1766.1	1576.9	1333.8	1050.5	771.2	524.8	326.9	191.4
12.5°	2559.8	2266.7	1994.4	1794.5	1610.2	1373.4	1087.7	801.2	546.9	340.5	198.3
10°	2610.7	2319.0	2028.4	1817.9	1637.7	1405.9	1118.4	825.9	565.1	351.7	204.0
7.5°	2650.7	2360.0	2055.0	1836.2	1659.1	1431.4	1142.3	845.1	579.4	360.4	208.4
5°	2679.4	2389.4	2074.1	1849.3	1674.5	1449.7	1159.4	858.9	589.5	366.6	211.6
2.5°	2696.7	2407.2	2085.6	1857.3	1683.8	1460.6	1169.8	867.2	595.7	370.3	213.5
0°	2702.5	2413.1	2089.4	1859.9	1686.9	1464.3	1173.2	870.0	597.7	371.6	214.1
-2.5°	2696.7	2407.2	2085.6	1857.3	1683.8	1460.6	1169.8	867.2	595.7	370.3	213.5
-5°	2679.4	2389.4	2074.1	1849.3	1674.5	1449.7	1159.4	858.9	589.5	366.6	211.6
-7.5°	2650.7	2360.0	2055.0	1836.2	1659.1	1431.4	1142.3	845.1	579.4	360.4	208.4
-10°	2610.7	2319.0	2028.4	1817.9	1637.7	1405.9	1118.4	825.9	565.1	351.7	204.0
-12.5°	2559.8	2266.7	1994.4	1794.5	1610.2	1373.4	1087.7	801.2	546.9	340.5	198.3
-15°	2498.3	2203.4	1953.2	1766.1	1576.9	1333.8	1050.5	771.2	524.8	326.9	191.4
-17.5°	2426.4	2129.5	1905.0	1732.8	1537.8	1287.4	1006.8	736.0	498.7	311.0	183.2
-20°	2336.5	2058.1	1852.5	1694.8	1493.2	1234.3	956.8	695.6	468.9	292.7	173.9



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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°	2234.5	1991.3	1806.2	1642.4	1436.6	1174.6	900.6	650.2	435.3	272.1	163.4
-25°	2122.5	1917.8	1755.1	1581.9	1364.3	1106.0	841.6	600.0	398.1	249.2	151.8
-27.5°	2026.7	1843.4	1699.5	1516.1	1285.3	1031.0	780.5	553.9	361.7	224.2	139.0
-30°	1934.1	1778.6	1626.1	1439.2	1200.1	949.9	714.4	504.5	330.9	204.1	125.1
-32.5°	1841.6	1709.6	1543.7	1339.8	1106.0	863.6	643.4	451.3	297.9	186.9	113.4
-35°	1763.1	1622.1	1454.0	1234.3	1004.9	780.5	572.8	394.6	262.5	168.6	101.8
-37.5°	1678.9	1523.2	1333.8	1120.8	898.0	692.5	506.3	345.8	225.1	149.1	89.6
-40°	1568.2	1405.9	1207.8	999.1	794.3	600.0	436.3	301.6	197.3	128.6	76.7
-42.5°	1449.7	1265.0	1072.3	872.0	688.9	519.2	365.5	255.4	173.0	111.1	63.1
-45°	1293.9	1116.7	930.2	753.2	582.3	435.3	312.2	209.9	147.5	94.8	52.4
-47.5°	1131.5	959.5	792.1	630.3	487.7	355.4	256.7	180.4	121.2	77.8	46.3
-50°	959.5	805.1	656.0	519.4	390.1	292.7	205.4	149.8	101.3	60.1	39.9
-52.5°	792.1	656.0	530.1	411.1	314.4	228.0	170.6	119.2	80.8	49.5	33.4
-55°	630.3	519.4	411.1	321.7	242.4	183.2	134.8	95.6	59.6	41.8	27.2
-57.5°	487.7	390.1	314.4	242.4	187.4	143.2	104.6	71.5	47.8	33.9	25.0
-60°	355.4	292.7	228.0	183.2	143.2	107.6	77.5	51.5	38.7	26.9	22.7
-62.5°	256.7	205.4	170.6	134.8	104.6	77.5	52.7	41.1	29.3	24.3	20.5
-65°	180.4	149.8	119.2	95.6	71.5	51.5	41.1	30.6	25.0	21.6	18.1
-67.5°	121.2	101.3	80.8	59.6	47.8	38.7	29.3	25.0	22.0	18.9	15.8
-70°	77.8	60.1	49.5	41.8	33.9	26.9	24.3	21.6	18.9	16.1	13.4
-72.5°	46.3	39.9	33.4	27.2	25.0	22.7	20.5	18.1	15.8	13.4	10.9
-75°	28.2	25.9	24.2	22.4	20.5	18.6	16.6	14.7	12.6	10.6	9.2
-77.5°	21.9	20.5	19.0	17.5	16.0	14.4	12.8	11.1	9.8	8.7	7.7
-80°	16.2	15.1	13.9	12.7	11.5	10.3	9.5	8.7	7.8	7.0	6.1
-82.5°	10.5	9.9	9.4	8.8	8.3	7.7	7.1	6.5	5.9	5.2	4.6
-85°	6.9	6.6	6.2	5.9	5.5	5.1	4.7	4.3	3.9	3.5	3.1
-87.5°	3.4	3.3	3.1	2.9	2.7	2.5	2.4	2.2	2.0	1.7	1.5
-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°	1.3	1.1	0.9	0.7	0.4	0.2	0.0
85°	2.6	2.2	1.8	1.3	0.9	0.4	0.0
82.5°	3.9	3.3	2.6	2.0	1.3	0.7	0.0
80°	5.3	4.4	3.5	2.6	1.8	0.9	0.0
77.5°	6.6	5.5	4.4	3.3	2.2	1.1	0.0
75°	7.9	6.6	5.3	3.9	2.6	1.3	0.0
72.5°	9.2	7.7	6.1	4.6	3.1	1.5	0.0
70°	10.6	8.7	7.0	5.2	3.5	1.7	0.0
67.5°	12.6	9.8	7.8	5.9	3.9	2.0	0.0
65°	14.7	11.1	8.7	6.5	4.3	2.2	0.0
62.5°	16.6	12.8	9.5	7.1	4.7	2.4	0.0
60°	18.6	14.4	10.3	7.7	5.1	2.5	0.0
57.5°	20.5	16.0	11.5	8.3	5.5	2.7	0.0
55°	22.4	17.5	12.7	8.8	5.9	2.9	0.0
52.5°	24.2	19.0	13.9	9.4	6.2	3.1	0.0
50°	25.9	20.5	15.1	9.9	6.6	3.3	0.0
47.5°	28.2	21.9	16.2	10.5	6.9	3.4	0.0
45°	33.4	23.3	17.3	11.3	7.2	3.6	0.0
42.5°	38.4	24.6	18.3	12.1	7.6	3.8	0.0
40°	43.1	25.8	19.3	12.8	7.9	3.9	0.0
37.5°	47.7	27.0	20.2	13.5	8.1	4.0	0.0
35°	52.0	29.7	21.1	14.2	8.4	4.2	0.0
32.5°	57.7	33.1	22.0	14.8	8.7	4.3	0.0
30°	66.9	36.2	22.8	15.4	8.9	4.4	0.0
27.5°	75.4	39.1	23.5	15.9	9.1	4.5	0.0
25°	83.3	41.8	24.1	16.4	9.3	4.6	0.0
22.5°	90.5	44.2	24.8	16.8	9.5	4.7	0.0
20°	96.9	46.4	25.3	17.3	9.7	4.8	0.0
17.5°	102.6	48.4	25.8	17.6	9.8	4.9	0.0
15°	107.6	50.1	26.2	17.9	9.9	4.9	0.0
12.5°	111.9	51.5	26.6	18.2	10.1	5.0	0.0
10°	115.4	52.7	26.9	18.4	10.1	5.0	0.0
7.5°	118.1	53.6	27.1	18.6	10.2	5.1	0.0
5°	120.0	54.3	27.3	18.7	10.3	5.1	0.0
2.5°	121.2	54.7	27.4	18.8	10.3	5.1	0.0
0°	121.6	54.8	27.4	18.8	10.3	5.1	0.0
-2.5°	121.2	54.7	27.4	18.8	10.3	5.1	0.0
-5°	120.0	54.3	27.3	18.7	10.3	5.1	0.0
-7.5°	118.1	53.6	27.1	18.6	10.2	5.1	0.0
-10°	115.4	52.7	26.9	18.4	10.1	5.0	0.0
-12.5°	111.9	51.5	26.6	18.2	10.1	5.0	0.0
-15°	107.6	50.1	26.2	17.9	9.9	4.9	0.0
-17.5°	102.6	48.4	25.8	17.6	9.8	4.9	0.0
-20°	96.9	46.4	25.3	17.3	9.7	4.8	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	90.5	44.2	24.8	16.8	9.5	4.7	0.0
-25°	83.3	41.8	24.1	16.4	9.3	4.6	0.0
-27.5°	75.4	39.1	23.5	15.9	9.1	4.5	0.0
-30°	66.9	36.2	22.8	15.4	8.9	4.4	0.0
-32.5°	57.7	33.1	22.0	14.8	8.7	4.3	0.0
-35°	52.0	29.7	21.1	14.2	8.4	4.2	0.0
-37.5°	47.7	27.0	20.2	13.5	8.1	4.0	0.0
-40°	43.1	25.8	19.3	12.8	7.9	3.9	0.0
-42.5°	38.4	24.6	18.3	12.1	7.6	3.8	0.0
-45°	33.4	23.3	17.3	11.3	7.2	3.6	0.0
-47.5°	28.2	21.9	16.2	10.5	6.9	3.4	0.0
-50°	25.9	20.5	15.1	9.9	6.6	3.3	0.0
-52.5°	24.2	19.0	13.9	9.4	6.2	3.1	0.0
-55°	22.4	17.5	12.7	8.8	5.9	2.9	0.0
-57.5°	20.5	16.0	11.5	8.3	5.5	2.7	0.0
-60°	18.6	14.4	10.3	7.7	5.1	2.5	0.0
-62.5°	16.6	12.8	9.5	7.1	4.7	2.4	0.0
-65°	14.7	11.1	8.7	6.5	4.3	2.2	0.0
-67.5°	12.6	9.8	7.8	5.9	3.9	2.0	0.0
-70°	10.6	8.7	7.0	5.2	3.5	1.7	0.0
-72.5°	9.2	7.7	6.1	4.6	3.1	1.5	0.0
-75°	7.9	6.6	5.3	3.9	2.6	1.3	0.0
-77.5°	6.6	5.5	4.4	3.3	2.2	1.1	0.0
-80°	5.3	4.4	3.5	2.6	1.8	0.9	0.0
-82.5°	3.9	3.3	2.6	2.0	1.3	0.7	0.0
-85°	2.6	2.2	1.8	1.3	0.9	0.4	0.0
-87.5°	1.3	1.1	0.9	0.7	0.4	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

