

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: P701595 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-57-80-5S-CV1-S**

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701595 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-34)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0640L-57-80-5S-CV1-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 5S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

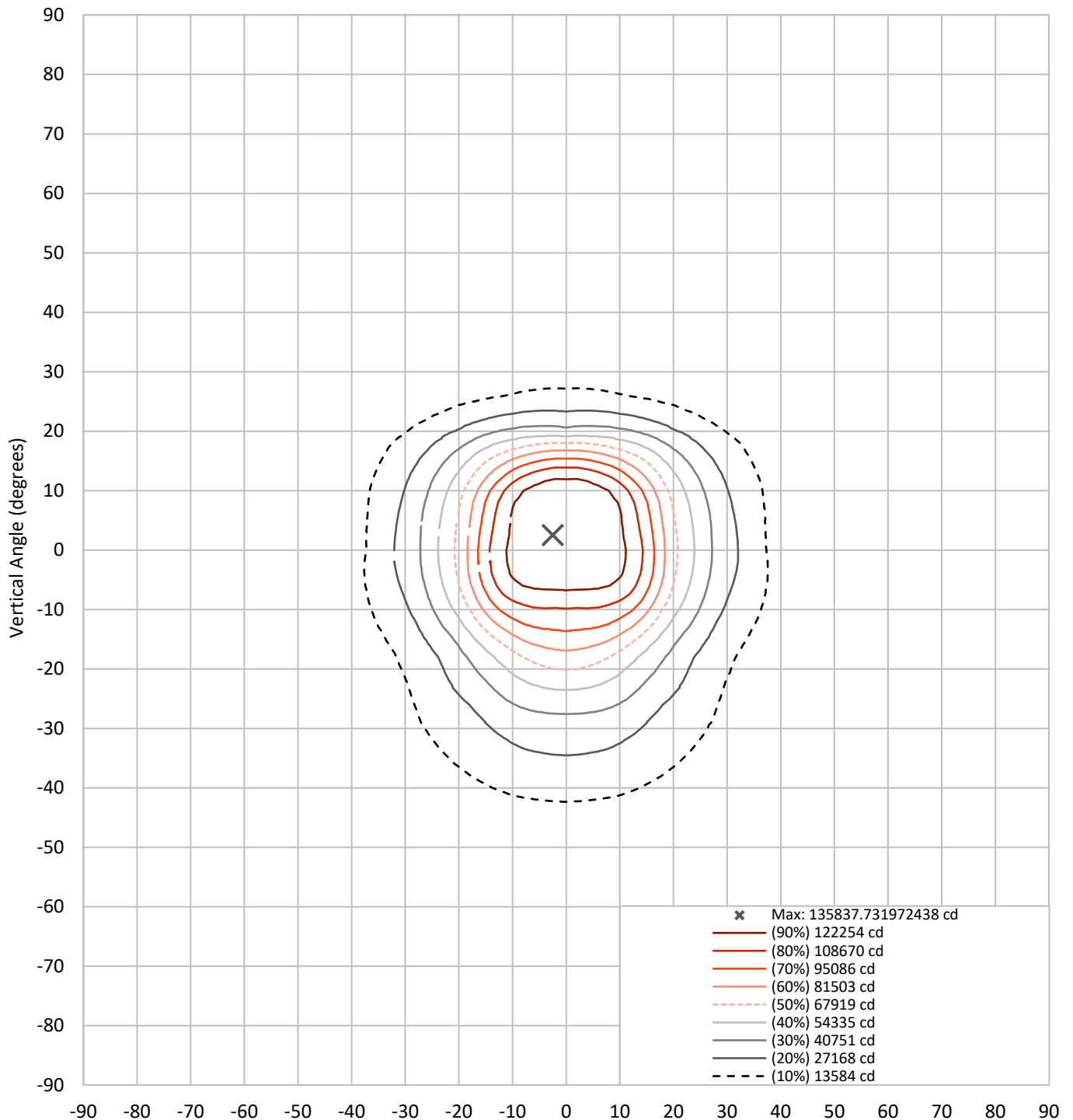
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 4V
Luminaire Lumens:	72521.6 lumens	Max Intensity:	135837.7 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 2.5°V
Efficacy:	110.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	41.4°H x 38°V	Field Angle (10%):	74.2°H x 69.6°V
Beam Lumens:	39959.8 lumens	Field Lumens:	67443.7 lumens
Beam Efficiency:	55.1%	Field Efficiency:	93.0%

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





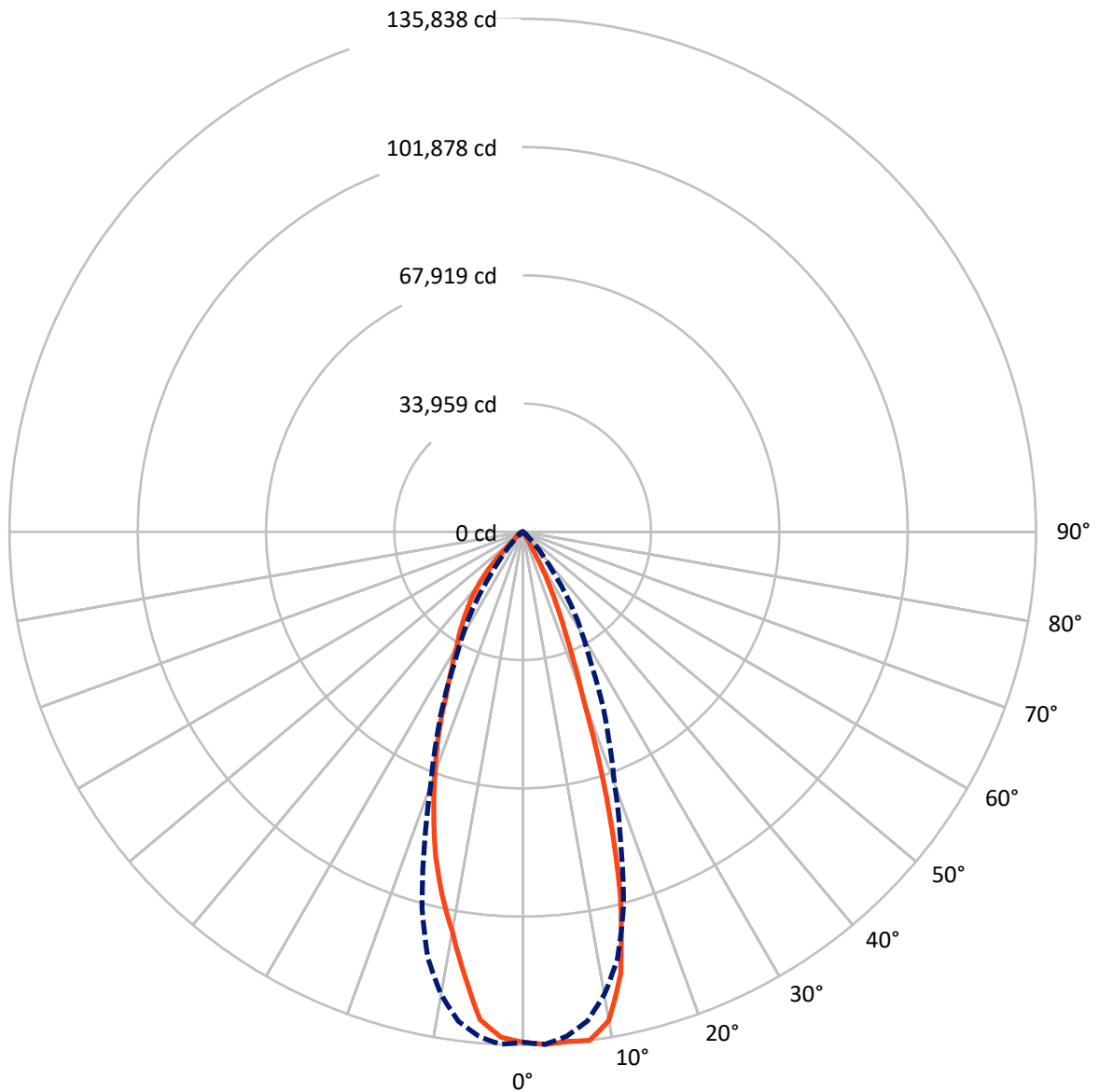
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Lumen Table

90																
80	0.1	0.3		0.5		0.5		0.4		0.5		0.5		0.3		0.1
70																
60	0.1	0.1	0.1	0.4	0.6	0.4	0.3	0.3	0.3	0.3	0.4	0.6	0.4	0.1	0.1	0.1
50		0.1	0.2	0.7	0.8	0.4	0.3	0.3	0.3	0.3	0.4	0.8	0.7	0.2	0.1	
40	0.1	0.1	0.3	0.5	0.7	1.0	1.1	1.1	1.1	1.1	1.0	0.7	0.5	0.3	0.1	0.1
30		0.2	0.7	2.2	4.7	10.2	24.2	34.5	34.5	24.2	10.2	4.7	2.2	0.7	0.2	
20	0.2	0.4	3.9	14.5	79.1	242.8	488.5	657.3	657.3	488.5	242.8	79.1	14.5	3.9	0.4	0.2
10		1.1	9.5	52.2	325.9	927.7	1923.1	2769.6	2769.6	1923.1	927.7	325.9	52.2	9.5	1.1	
0	0.2	1.8	12.8	82.5	468.4	1334.5	2883.5	3987.4	3987.4	2883.5	1334.5	468.4	82.5	12.8	1.8	0.2
-10		2.2	13.7	86.2	471.8	1301.0	2841.6	3766.4	3766.4	2841.6	1301.0	471.8	86.2	13.7	2.2	
-20	0.4	2.6	13.2	57.9	310.1	858.2	1825.5	2596.6	2596.6	1825.5	858.2	310.1	57.9	13.2	2.6	0.4
-30		2.6	12.5	32.2	182.8	525.6	1021.6	1444.8	1444.8	1021.6	525.6	182.8	32.2	12.5	2.6	
-40	0.3	2.0	10.1	24.0	73.5	289.7	565.3	773.7	773.7	565.3	289.7	73.5	24.0	10.1	2.0	0.3
-50		1.3	6.6	18.8	36.1	67.4	159.7	248.3	248.3	159.7	67.4	36.1	18.8	6.6	1.3	
-60	0.2	0.7	3.3	10.2	22.2	36.1	49.2	57.0	57.0	49.2	36.1	22.2	10.2	3.3	0.7	0.2
-70		0.3	1.2	3.5	7.6	12.9	19.1	22.5	22.5	19.1	12.9	7.6	3.5	1.2	0.3	
-80																
-90	0.1	0.7		2.6		6.1		8.1		6.1		2.6		0.7		0.1

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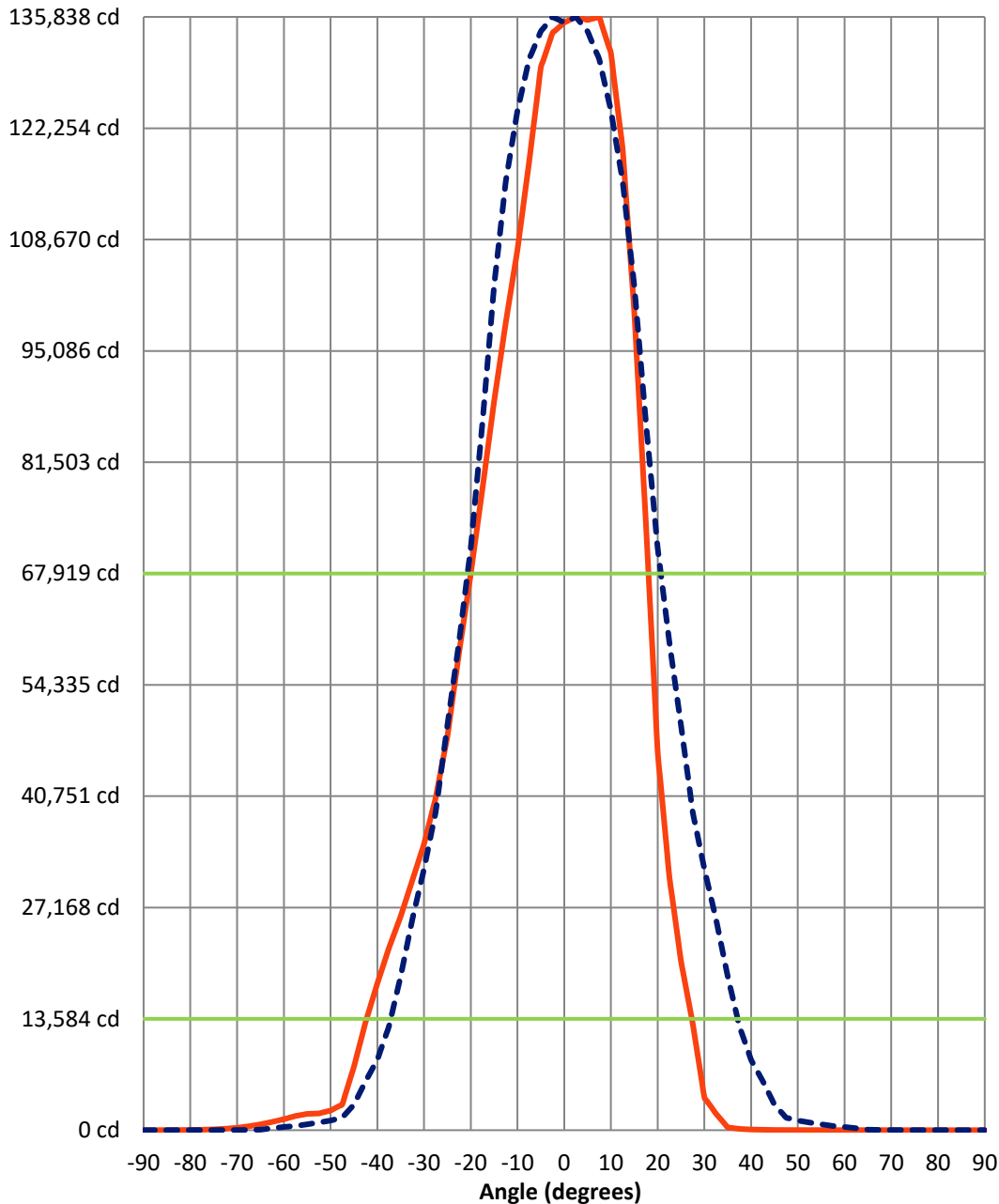
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 41.4°
 V Angle: 38°
 Lumens: 39959.8
 Efficiency: 55.1%

Field:
 H Angle: 74.2°
 V Angle: 69.6°
 Lumens: 67443.7
 Efficiency: 93.0%

Spill:
 Lumens: 5077.9
 Efficiency: 7.0%

— Vertical Distribution through -2.5-Deg
 - - Horizontal Distribution through 2.5-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°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
87.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.3	4.9	4.4	3.9
85°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.3	4.9	4.4	3.9
82.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.4	4.9	4.6	4.4
80°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.5	5.2	5.1	5.2
77.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.6	5.5	5.7	5.8
75°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.7	5.8	5.8	5.8
72.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
70°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
67.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
65°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
62.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
60°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
57.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.9	5.8	5.8	5.8	6.0
55°	5.8	5.8	5.8	5.8	5.8	5.8	6.0	5.9	5.8	5.9	6.3
52.5°	5.8	5.8	5.8	5.8	5.8	5.8	6.2	6.0	5.8	6.3	6.7
50°	5.8	5.8	5.8	5.8	5.8	6.0	6.4	6.1	6.0	6.8	7.7
47.5°	5.8	5.8	5.8	5.8	5.8	6.2	6.6	6.2	6.5	7.4	8.7
45°	5.8	5.8	5.8	5.8	5.8	6.4	6.7	6.3	7.1	8.1	9.6
42.5°	5.8	5.8	5.8	5.8	5.8	6.7	6.7	6.6	7.7	8.8	10.2
40°	5.8	5.8	5.8	5.8	5.9	6.9	6.8	7.2	8.3	9.4	10.8
37.5°	5.8	5.8	5.8	5.9	6.1	7.2	6.9	7.6	8.8	10.0	11.4
35°	5.8	5.8	5.8	5.9	6.3	7.4	7.1	8.1	9.4	10.7	12.1
32.5°	5.8	5.8	5.8	6.0	6.5	7.4	7.2	8.6	9.9	11.5	13.7
30°	5.8	5.8	5.8	6.1	6.7	7.5	7.6	9.0	10.4	12.3	15.5
27.5°	5.8	5.8	5.8	6.2	7.0	7.6	8.0	9.4	11.0	13.1	17.7
25°	5.8	5.8	5.8	6.3	7.2	7.7	8.3	9.9	11.6	14.5	20.1
22.5°	5.8	5.8	5.8	6.5	7.3	7.8	8.6	10.2	12.3	16.4	24.7
20°	5.8	5.8	5.8	6.6	7.5	7.8	9.0	10.6	13.0	18.3	29.7
17.5°	5.8	5.8	5.8	6.7	7.6	7.8	9.2	11.0	13.7	20.3	34.9
15°	5.8	5.8	5.8	6.9	7.7	7.8	9.3	11.2	14.3	22.4	40.2
12.5°	5.8	5.8	5.8	7.1	7.7	7.8	9.4	11.4	14.9	24.5	45.6
10°	5.8	5.8	5.8	7.2	7.8	7.8	9.5	11.5	15.5	26.7	50.9
7.5°	5.8	5.8	5.8	7.4	7.8	7.8	9.6	11.6	16.1	29.0	55.9
5°	5.8	5.8	5.8	7.5	7.8	7.8	9.7	11.6	16.6	31.2	60.4
2.5°	5.8	5.8	5.8	7.7	7.8	7.8	9.7	11.7	17.1	33.2	64.5
0°	5.8	5.8	5.8	7.8	7.8	7.8	9.7	11.7	17.5	35.0	68.0
-2.5°	5.8	5.8	5.9	7.8	7.8	8.0	10.2	13.8	23.4	45.7	84.8
-5°	5.8	5.8	6.0	7.8	7.8	8.2	10.7	15.8	29.1	55.7	100.6
-7.5°	5.8	5.8	6.1	7.8	7.8	8.4	11.1	17.7	34.3	65.0	115.0
-10°	5.8	5.8	6.1	7.7	7.8	8.6	11.5	19.3	38.8	73.3	127.7
-12.5°	5.8	5.8	6.2	7.7	7.8	8.7	11.8	20.6	42.6	80.5	139.9
-15°	5.8	5.8	6.3	7.7	7.8	8.8	12.1	21.6	46.1	87.4	150.3
-17.5°	5.8	5.8	6.3	7.6	7.8	8.9	12.2	23.2	49.5	92.7	157.9
-20°	5.8	5.8	6.4	7.6	7.8	8.9	12.7	25.1	51.9	96.2	162.4



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 CATALOG NUMBER: EPH-LS-08-0640L-57-80-5S-CV1-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	5.8	5.8	6.4	7.6	7.8	8.9	13.7	26.5	53.0	97.7	163.5
-25°	5.8	5.8	6.5	7.6	7.8	9.1	14.4	27.2	52.9	97.1	160.9
-27.5°	5.8	5.8	6.5	7.6	7.8	9.3	14.8	27.3	51.5	95.3	159.8
-30°	5.8	5.8	6.5	7.6	7.8	9.3	14.8	26.7	50.6	93.6	156.0
-32.5°	5.8	5.8	6.5	7.6	7.9	9.3	14.5	26.5	49.8	89.9	149.2
-35°	5.8	5.8	6.5	7.7	8.0	9.0	14.2	26.1	48.0	84.4	139.3
-37.5°	5.8	5.8	6.5	7.7	8.1	8.8	13.9	25.1	45.1	76.9	126.5
-40°	5.8	5.8	6.5	7.8	8.1	8.9	13.4	23.5	41.2	71.3	114.1
-42.5°	5.8	5.8	6.4	7.8	8.1	8.9	12.7	21.3	38.0	64.6	100.1
-45°	5.8	5.8	6.4	7.8	8.1	9.0	11.7	19.2	34.7	57.0	85.6
-47.5°	5.8	5.8	6.3	7.8	8.1	8.9	10.4	17.7	30.7	48.8	76.1
-50°	5.8	5.8	6.2	7.7	8.1	8.9	10.2	15.8	25.7	43.0	65.8
-52.5°	5.8	5.8	6.1	7.5	8.0	8.8	10.0	13.7	22.2	36.5	55.0
-55°	5.8	5.8	6.0	7.3	8.0	8.7	9.8	11.4	19.2	29.5	46.8
-57.5°	5.8	5.8	5.9	7.1	7.9	8.5	9.6	11.1	15.9	24.7	37.8
-60°	5.8	5.8	5.8	6.9	7.8	8.3	9.3	10.7	13.0	20.4	29.6
-62.5°	5.8	5.8	5.8	6.8	7.6	8.1	9.0	10.3	12.2	15.7	24.1
-65°	5.8	5.8	5.8	6.6	7.4	7.9	8.6	9.7	11.4	13.8	18.2
-67.5°	5.8	5.8	5.8	6.4	7.3	7.7	8.3	9.3	10.4	12.5	15.1
-70°	5.8	5.8	5.8	6.2	7.1	7.6	7.9	8.8	9.9	11.0	13.1
-72.5°	5.8	5.8	5.8	6.2	6.9	7.5	7.8	8.3	9.3	10.3	11.3
-75°	5.8	5.8	5.8	6.1	6.8	7.4	7.8	8.1	8.7	9.6	10.6
-77.5°	5.8	5.8	5.8	6.1	6.6	7.3	7.8	8.0	8.4	9.0	9.8
-80°	5.8	5.8	5.8	6.0	6.5	7.1	7.8	7.9	8.1	8.5	9.1
-82.5°	5.8	5.8	5.8	6.0	6.3	6.8	7.3	7.6	7.8	8.0	8.3
-85°	5.8	5.8	5.8	5.9	6.1	6.4	6.8	7.0	7.2	7.3	7.5
-87.5°	5.8	5.8	5.8	5.9	6.0	6.1	6.3	6.4	6.5	6.6	6.6
-90°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.3	4.9	4.4	3.9



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 CATALOG NUMBER: EPH-LS-08-0640L-57-80-5S-CV1-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
85°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
82.5°	4.5	4.4	4.2	3.9	3.9	3.9	3.9	4.1	4.2	4.2	4.1
80°	5.2	4.9	4.5	4.0	4.1	4.4	4.8	5.4	5.3	5.0	4.7
77.5°	5.4	5.0	4.5	4.0	4.3	4.9	5.4	5.7	5.7	5.7	5.7
75°	5.5	5.0	4.8	4.8	5.2	5.6	5.8	6.2	6.5	6.5	6.3
72.5°	5.6	5.4	5.5	5.8	5.9	6.1	6.6	7.4	7.8	7.7	7.6
70°	5.7	5.8	5.8	5.8	5.9	6.6	7.6	8.6	9.3	9.6	10.6
67.5°	5.8	5.8	5.8	5.9	6.6	7.7	8.8	11.1	14.0	15.1	16.2
65°	5.8	5.8	6.0	6.7	7.7	9.2	11.7	15.0	20.8	23.5	24.7
62.5°	5.8	5.9	6.5	7.5	8.7	10.7	15.7	22.1	29.3	33.3	32.5
60°	5.8	6.0	7.3	8.8	10.3	14.7	21.2	28.5	37.8	44.4	39.9
57.5°	6.0	6.9	8.8	10.6	13.9	18.2	24.8	33.7	43.1	53.1	45.9
55°	6.7	8.4	10.3	13.0	16.5	19.8	26.4	34.7	45.1	51.5	45.2
52.5°	8.1	9.9	11.6	14.7	18.1	20.7	24.7	32.5	38.6	43.8	40.4
50°	9.4	10.7	12.6	16.1	19.1	20.7	20.5	26.4	31.6	33.9	34.3
47.5°	10.2	11.5	13.7	17.2	19.7	20.2	18.3	21.3	25.2	27.5	26.8
45°	10.9	12.8	15.2	18.2	20.1	19.4	19.1	18.0	22.8	24.9	25.3
42.5°	11.6	14.2	17.1	19.5	20.3	21.3	21.7	21.9	24.4	29.2	31.6
40°	12.8	15.6	19.5	21.5	21.9	25.3	28.7	31.3	33.1	39.6	44.3
37.5°	14.0	18.0	22.7	26.2	26.7	32.6	37.9	55.1	58.6	53.5	70.4
35°	15.1	20.7	28.7	36.9	41.6	43.1	66.8	90.1	100.0	97.9	112.1
32.5°	17.1	23.7	36.5	55.2	73.6	78.3	103.6	142.9	178.1	192.3	183.6
30°	20.4	31.0	49.0	78.3	120.1	165.9	173.1	216.8	288.0	346.0	432.7
27.5°	25.5	40.4	71.2	121.0	187.7	281.6	304.6	342.6	448.4	594.0	873.5
25°	31.3	64.3	96.6	177.7	301.3	411.4	454.7	526.4	649.1	1119.7	1763.3
22.5°	44.2	96.3	148.7	243.1	433.7	547.5	625.9	746.1	1037.8	1789.2	3041.9
20°	67.2	140.7	214.6	325.6	573.8	691.1	796.4	979.2	1630.5	3027.7	5063.7
17.5°	94.3	188.7	282.7	425.1	649.4	809.7	972.7	1218.3	2252.5	4472.0	7177.2
15°	124.6	239.3	346.8	511.2	715.6	887.9	1115.5	1681.6	3239.9	6121.2	9118.6
12.5°	157.0	291.6	406.7	584.8	777.0	961.4	1232.5	2077.5	4269.1	7619.4	11113.2
10°	190.3	344.5	462.7	646.8	833.3	1029.5	1338.5	2439.3	4994.7	8181.4	12068.6
7.5°	211.0	377.5	507.9	698.3	884.2	1091.6	1432.4	2758.8	5508.2	8464.9	12462.2
5°	226.6	385.9	512.4	713.4	916.6	1141.0	1505.7	3026.7	5827.4	8505.0	12583.6
2.5°	238.5	389.3	513.3	718.1	936.2	1174.4	1530.8	3115.4	5973.7	8582.9	12667.7
0°	246.6	388.4	510.7	716.5	949.5	1200.0	1539.8	3132.1	5976.8	8633.1	12699.2
-2.5°	259.8	402.3	536.7	746.6	964.5	1205.4	1552.4	3220.3	6266.7	9176.6	13657.5
-5°	269.1	412.7	558.3	770.1	973.5	1202.7	1550.3	3225.0	6303.1	9302.7	13696.4
-7.5°	274.9	419.6	574.6	784.0	965.7	1172.5	1497.3	2964.4	5748.5	8732.2	12765.8
-10°	278.4	428.4	586.1	775.9	936.9	1122.9	1422.1	2642.0	5085.3	7998.3	11641.2
-12.5°	284.8	438.7	593.7	766.4	910.1	1068.2	1333.6	2267.2	4332.1	7101.2	10338.0
-15°	286.8	445.4	597.5	757.2	887.6	1009.3	1232.3	1847.2	3577.2	6313.7	9047.9
-17.5°	284.2	448.6	597.8	749.6	871.7	947.3	1128.7	1484.1	3014.4	5549.1	8072.2
-20°	277.1	448.3	594.5	745.0	861.8	926.9	1094.6	1405.0	2530.8	4653.5	7150.2



REPORT NUMBER: P701595 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-80-5S-CV1-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	265.2	444.6	588.8	737.1	860.8	945.7	1065.6	1305.4	1924.1	3619.2	6194.5
-25°	257.3	427.8	579.8	716.9	855.0	965.9	1034.4	1198.8	1544.1	2829.3	4906.7
-27.5°	253.6	405.3	552.9	687.7	840.0	977.4	1040.2	1160.1	1404.4	1961.7	3550.0
-30°	245.0	367.6	520.4	651.0	804.9	954.2	1063.2	1120.0	1277.9	1602.6	2536.9
-32.5°	227.8	328.9	477.6	611.1	756.2	919.9	1067.3	1123.3	1225.3	1412.3	1762.5
-35°	208.0	304.2	430.9	565.0	697.9	863.8	1019.7	1139.1	1183.9	1319.2	1563.7
-37.5°	190.6	275.3	383.3	513.4	641.9	794.7	966.3	1105.1	1197.2	1256.5	1437.2
-40°	170.4	242.2	343.8	460.7	585.5	724.8	883.7	1045.8	1176.4	1288.7	1364.5
-42.5°	148.4	216.7	303.2	407.9	528.4	657.5	795.0	955.5	1122.7	1282.7	1399.7
-45°	131.1	188.4	260.3	358.8	467.7	587.0	715.8	851.3	1026.0	1206.5	1369.8
-47.5°	112.1	159.8	225.6	305.2	406.1	515.5	632.3	760.5	904.5	1078.1	1265.7
-50°	93.7	136.6	187.3	258.5	342.8	442.0	548.9	660.9	788.3	932.7	1097.8
-52.5°	81.1	111.6	156.8	211.2	283.6	367.9	462.4	561.2	669.9	788.6	924.2
-55°	67.6	93.9	126.7	171.5	226.2	298.1	375.1	462.8	553.1	656.3	760.7
-57.5°	55.7	77.3	102.8	135.7	179.4	229.1	295.9	365.1	445.4	528.8	612.1
-60°	44.4	61.6	82.6	107.7	137.4	178.3	220.8	278.6	342.7	405.5	475.0
-62.5°	33.4	47.5	64.0	83.7	107.7	131.6	165.3	204.9	247.0	298.7	349.6
-65°	26.4	34.4	46.9	62.7	79.8	100.2	121.2	142.6	176.3	209.9	241.8
-67.5°	19.0	26.2	33.5	42.4	56.8	71.2	86.4	105.0	123.8	141.3	161.9
-70°	15.7	18.5	24.2	30.8	37.2	44.9	57.5	70.6	83.9	97.1	111.8
-72.5°	13.1	15.4	18.0	20.7	25.9	31.0	35.9	40.7	49.2	60.0	70.4
-75°	11.4	12.4	14.4	16.6	18.8	20.8	23.2	27.3	31.5	35.7	39.9
-77.5°	10.4	11.1	11.9	12.9	14.2	16.0	17.7	19.4	21.1	22.7	24.3
-80°	9.4	9.7	10.2	10.8	11.5	12.4	13.3	14.4	15.6	16.9	18.2
-82.5°	8.5	8.7	9.0	9.2	9.4	9.6	9.8	10.4	11.0	11.7	12.4
-85°	7.6	7.8	7.9	8.1	8.2	8.3	8.5	8.6	8.7	8.8	8.9
-87.5°	6.7	6.8	6.9	6.9	7.0	7.1	7.2	7.2	7.3	7.3	7.4
-90°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9



REPORT NUMBER: P701595 (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°
90°	5.8	5.8	5.8	5.8	5.8	5.3	4.9	4.4	3.9	3.9	3.9
87.5°	3.9	3.9	3.9	3.9	3.9	3.4	2.9	2.4	1.9	1.9	1.9
85°	3.9	3.9	3.9	3.9	3.9	3.8	3.8	3.8	3.8	3.3	2.9
82.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.4	2.9
80°	4.5	4.5	4.4	4.2	3.9	3.9	3.9	3.9	3.9	3.4	2.9
77.5°	5.8	5.4	5.0	4.5	4.0	3.9	3.9	3.9	3.9	3.5	2.9
75°	6.0	5.6	5.4	5.1	4.9	4.7	4.6	4.3	4.0	3.8	3.8
72.5°	7.5	7.3	7.2	7.4	7.3	7.1	6.8	6.2	5.6	5.5	5.6
70°	11.2	11.6	11.7	11.5	10.9	10.0	9.2	8.4	7.6	7.4	7.5
67.5°	17.2	17.5	16.9	15.7	13.6	11.9	10.9	9.7	8.4	8.0	8.5
65°	24.4	21.6	19.3	17.2	15.3	13.7	12.5	11.2	9.9	9.6	10.8
62.5°	29.1	22.9	19.4	17.7	16.5	15.3	13.5	12.0	10.5	9.8	10.0
60°	33.1	24.4	18.4	16.8	15.3	13.8	12.0	10.5	9.3	8.4	8.2
57.5°	35.1	24.9	16.9	14.7	12.6	10.5	9.6	9.2	8.6	7.8	8.3
55°	33.8	23.2	14.4	12.7	12.1	11.7	11.3	10.4	9.6	9.0	9.4
52.5°	28.9	21.1	15.3	13.3	12.7	12.2	11.6	11.4	11.2	11.0	11.2
50°	25.8	19.7	15.7	13.4	13.4	13.4	13.4	13.6	13.9	14.0	14.1
47.5°	23.0	18.5	17.6	15.3	15.7	16.9	17.2	17.5	18.5	18.3	17.9
45°	23.0	24.7	24.1	22.8	22.0	30.6	31.2	26.1	31.0	30.4	26.6
42.5°	33.7	36.1	36.6	45.0	60.8	60.0	58.4	66.1	60.9	53.2	47.9
40°	52.2	52.2	61.9	76.0	75.5	72.5	82.2	83.4	82.8	87.2	85.8
37.5°	83.0	84.0	88.5	96.9	111.8	104.7	125.8	139.3	141.4	160.2	174.7
35°	138.1	161.8	140.7	191.1	224.1	217.1	247.7	302.4	250.8	384.0	408.0
32.5°	258.9	312.2	353.1	410.7	485.2	595.2	603.3	992.6	1070.5	1300.4	1614.5
30°	445.7	600.2	897.2	974.7	1094.5	1550.1	2088.8	2762.9	3389.5	3837.1	4425.7
27.5°	1073.1	1328.4	1968.1	2663.2	2622.6	3474.0	5400.7	5993.5	7620.4	8161.7	9535.0
25°	2400.3	3011.7	4560.1	5940.1	6643.4	8886.5	11428.5	12574.9	14718.1	15857.7	17539.0
22.5°	4694.0	6371.4	8425.1	10544.3	13185.0	16619.4	19761.9	22055.8	24941.5	27258.3	28629.5
20°	7597.5	9918.6	13081.4	16373.2	20457.8	24969.7	28249.7	32896.9	37237.2	41358.7	43217.6
17.5°	10362.4	14240.4	18066.8	22040.0	27398.1	33299.9	38645.8	45442.6	52639.3	58173.6	62685.3
15°	12705.1	17020.2	22541.1	27289.6	33422.4	40782.1	48729.5	57418.9	67768.7	75635.0	84106.3
12.5°	14867.6	19194.5	25184.7	30855.9	39113.8	47426.0	56700.4	67497.2	79461.3	91097.6	102013.2
10°	16259.9	21246.7	27665.7	34555.8	43014.7	52666.9	63216.8	75312.1	90644.2	103947.4	116244.8
7.5°	17102.2	23118.3	29765.2	37112.0	46167.4	56099.9	67210.6	81469.4	97578.7	111474.3	122522.0
5°	17930.6	24651.7	31120.3	38344.3	48219.5	58326.7	69164.0	83466.9	100082.2	113991.0	123911.8
2.5°	18761.3	25707.3	31864.7	38834.6	49384.7	59585.1	71059.1	86297.1	102998.1	115772.2	124390.1
0°	19520.6	26083.8	32132.5	38957.8	49891.9	60134.8	71816.5	86863.3	105494.6	117780.2	126124.0
-2.5°	19796.0	26063.4	31842.9	38610.1	49468.4	59382.5	71008.7	87224.4	104611.3	117112.4	125584.9
-5°	18958.6	24646.1	30270.5	37125.0	47218.7	57452.1	69156.4	85235.7	101740.2	114682.1	122761.3
-7.5°	17383.9	22522.8	28054.9	34847.2	44018.3	53907.4	64562.1	78607.0	94855.3	106912.0	113275.2
-10°	15735.7	20143.5	25369.5	31656.2	39738.0	49129.2	57961.0	69911.6	84929.3	95618.2	102130.3
-12.5°	13851.5	17428.4	22252.0	27746.9	34960.9	43148.2	51226.1	61334.2	72803.3	83797.2	90576.8
-15°	11873.6	14752.2	18943.3	24216.0	29913.2	36037.0	43507.0	51695.0	60840.2	69751.4	77474.6
-17.5°	10290.3	12511.7	16357.7	21096.2	25440.4	30408.5	37689.2	44345.6	51038.5	58225.4	64659.4
-20°	9272.1	11357.2	14463.9	18420.3	22729.8	27737.7	33364.1	39185.9	45407.5	50925.4	56596.2



REPORT NUMBER: P701595 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-80-5S-CV1-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	8459.4	10602.5	12999.6	16296.9	20883.8	25484.7	29812.8	34268.2	39429.8	45066.0	49816.6
-25°	7403.6	9651.1	11928.4	15064.7	18926.6	22993.2	26179.6	29351.8	34009.1	38802.4	42729.6
-27.5°	5935.4	8476.5	11135.4	13688.1	16980.2	19872.4	22672.5	25547.4	29608.3	33654.5	36588.7
-30°	4235.4	7170.4	9931.8	12540.1	14800.4	17077.9	19419.7	22362.7	25757.4	29013.0	31507.4
-32.5°	3099.2	5298.4	8284.6	10946.8	13158.7	15065.3	16863.8	19482.4	22138.3	24748.8	27132.9
-35°	1977.6	3585.0	5912.0	8622.8	11219.7	13243.8	15199.4	17096.8	19092.8	21317.7	23380.7
-37.5°	1702.8	2135.0	3564.5	5587.0	8075.8	10720.7	12643.4	14532.3	16569.8	18241.4	19975.8
-40°	1543.3	1769.0	2131.1	2848.5	4727.8	6593.7	8753.8	10774.0	12721.7	14437.4	16022.3
-42.5°	1473.5	1608.7	1754.9	2027.1	2330.3	3224.9	4799.8	6270.7	8004.2	9726.4	11230.6
-45°	1508.8	1555.3	1629.6	1763.5	1887.6	2139.6	2405.0	2682.3	3866.8	5108.7	6173.0
-47.5°	1412.2	1547.6	1619.7	1677.9	1741.6	1851.3	1964.8	2119.3	2386.2	2656.9	2871.3
-50°	1251.9	1396.1	1522.7	1647.6	1707.9	1751.7	1798.5	1889.0	2012.9	2140.3	2234.2
-52.5°	1052.6	1192.1	1331.4	1457.8	1560.9	1660.5	1758.9	1833.0	1897.8	1961.8	1992.7
-55°	874.2	990.5	1102.8	1216.7	1329.0	1435.6	1544.7	1655.7	1758.8	1854.1	1901.2
-57.5°	706.6	804.1	900.6	987.5	1077.1	1168.2	1269.2	1377.0	1483.7	1583.4	1634.9
-60°	547.5	622.4	701.4	772.2	838.7	901.1	988.4	1076.8	1161.5	1233.8	1272.1
-62.5°	400.3	458.4	518.4	574.7	628.0	680.9	746.6	810.6	872.1	921.8	950.8
-65°	277.5	320.7	361.0	399.8	437.6	482.8	532.6	580.4	625.9	659.9	679.1
-67.5°	189.4	215.1	237.6	258.6	285.7	317.5	352.3	385.1	415.7	438.0	452.7
-70°	126.5	140.5	152.9	167.1	184.3	201.7	220.5	239.1	257.2	269.7	277.4
-72.5°	80.3	89.1	97.6	107.4	116.6	125.8	135.0	143.5	151.2	158.5	165.1
-75°	44.0	48.7	55.4	61.6	67.3	73.5	79.5	84.8	89.4	92.6	94.9
-77.5°	26.9	29.9	32.7	35.1	37.3	40.1	43.1	46.3	49.5	51.5	53.2
-80°	19.5	20.5	21.5	22.5	23.5	24.3	25.1	25.6	26.1	26.9	27.6
-82.5°	13.2	13.8	14.4	14.8	15.3	16.2	17.0	17.8	18.6	19.3	20.0
-85°	9.0	9.0	8.9	8.9	9.0	9.5	10.1	10.7	11.3	11.4	11.5
-87.5°	7.4	7.1	6.7	6.2	5.8	5.8	5.7	5.7	5.7	5.8	5.8
-90°	3.9	3.9	3.9	3.9	3.9	3.4	2.9	2.4	1.9	1.9	1.9



REPORT NUMBER: P701595 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-80-5S-CV1-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	4.4
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.4
85°	2.4	1.9	1.9	1.9	1.9	1.9	2.4	2.9	3.3	3.8	3.8
82.5°	2.4	1.9	1.9	1.9	1.9	1.9	2.4	2.9	3.4	3.9	3.9
80°	2.4	1.9	1.9	1.9	1.9	1.9	2.4	2.9	3.4	3.9	3.9
77.5°	2.4	1.9	1.9	1.9	1.9	1.9	2.4	2.9	3.5	3.9	3.9
75°	3.8	3.9	3.9	3.9	3.9	3.9	3.8	3.8	3.8	4.0	4.3
72.5°	5.7	5.7	5.8	5.8	5.8	5.7	5.7	5.6	5.5	5.6	6.2
70°	7.7	7.7	7.8	7.8	7.8	7.7	7.7	7.5	7.4	7.6	8.4
67.5°	9.0	9.6	9.7	9.7	9.7	9.6	9.0	8.5	8.0	8.4	9.7
65°	12.0	13.2	12.7	11.7	12.7	13.2	12.0	10.8	9.6	9.9	11.2
62.5°	10.0	9.9	9.7	9.7	9.7	9.9	10.0	10.0	9.8	10.5	12.0
60°	8.0	7.9	7.8	7.8	7.8	7.9	8.0	8.2	8.4	9.3	10.5
57.5°	8.8	9.4	9.7	9.7	9.7	9.4	8.8	8.3	7.8	8.6	9.2
55°	9.6	9.7	9.7	9.7	9.7	9.7	9.6	9.4	9.0	9.6	10.4
52.5°	11.4	11.6	11.7	11.7	11.7	11.6	11.4	11.2	11.0	11.2	11.4
50°	14.0	13.7	13.6	13.6	13.6	13.7	14.0	14.1	14.0	13.9	13.6
47.5°	17.8	17.5	17.4	17.5	17.4	17.5	17.8	17.9	18.3	18.5	17.5
45°	26.5	25.7	25.0	25.2	25.0	25.7	26.5	26.6	30.4	31.0	26.1
42.5°	50.8	52.6	54.7	58.3	54.7	52.6	50.8	47.9	53.2	60.9	66.1
40°	86.6	84.1	80.9	81.6	80.9	84.1	86.6	85.8	87.2	82.8	83.4
37.5°	180.1	173.3	160.4	151.5	160.4	173.3	180.1	174.7	160.2	141.4	139.3
35°	370.2	361.4	340.2	334.0	340.2	361.4	370.2	408.0	384.0	250.8	302.4
32.5°	1742.4	1942.2	2005.0	2007.8	2005.0	1942.2	1742.4	1614.5	1300.4	1070.5	992.6
30°	4471.6	4423.0	3991.6	3547.6	3991.6	4423.0	4471.6	4425.7	3837.1	3389.5	2762.9
27.5°	10761.8	12076.5	13026.0	12718.6	13026.0	12076.5	10761.8	9535.0	8161.7	7620.4	5993.5
25°	19383.0	20313.5	20618.8	20165.3	20618.8	20313.5	19383.0	17539.0	15857.7	14718.1	12574.9
22.5°	30431.0	30989.7	30941.0	29920.8	30941.0	30989.7	30431.0	28629.5	27258.3	24941.5	22055.8
20°	45826.5	45737.4	46195.1	44119.0	46195.1	45737.4	45826.5	43217.6	41358.7	37237.2	32896.9
17.5°	67601.3	71177.7	73900.7	73639.8	73900.7	71177.7	67601.3	62685.3	58173.6	52639.3	45442.6
15°	90732.1	96135.9	99829.5	100069.3	99829.5	96135.9	90732.1	84106.3	75635.0	67768.7	57418.9
12.5°	110839.0	116618.0	119755.0	119278.3	119755.0	116618.0	110839.0	102013.2	91097.6	79461.3	67497.2
10°	123647.6	128095.8	131397.2	132217.3	131397.2	128095.8	123647.6	116244.8	103947.4	90644.2	75312.1
7.5°	128783.8	132946.9	135824.6	135781.4	135824.6	132946.9	128783.8	122522.0	111474.3	97578.7	81469.4
5°	129734.2	133833.2	135462.0	135770.7	135462.0	133833.2	129734.2	123911.8	113991.0	100082.2	83466.9
2.5°	130668.9	134067.3	135837.7	135164.9	135837.7	134067.3	130668.9	124390.1	115772.2	102998.1	86297.1
0°	131034.7	133759.1	135142.6	134714.4	135142.6	133759.1	131034.7	126124.0	117780.2	105494.6	86863.3
-2.5°	130909.4	132701.5	133872.7	133467.7	133872.7	132701.5	130909.4	125584.9	117112.4	104611.3	87224.4
-5°	127559.4	129102.7	129648.4	129947.4	129648.4	129102.7	127559.4	122761.3	114682.1	101740.2	85235.7
-7.5°	116793.9	118822.4	118170.1	119154.0	118170.1	118822.4	116793.9	113275.2	106912.0	94855.3	78607.0
-10°	106143.9	108117.9	107440.6	108075.2	107440.6	108117.9	106143.9	102130.3	95618.2	84929.3	69911.6
-12.5°	96101.2	98584.2	98547.3	99447.9	98547.3	98584.2	96101.2	90576.8	83797.2	72803.3	61334.2
-15°	84027.4	87189.7	88912.0	90016.7	88912.0	87189.7	84027.4	77474.6	69751.4	60840.2	51695.0
-17.5°	71273.4	75340.1	78237.3	78682.6	78237.3	75340.1	71273.4	64659.4	58225.4	51038.5	44345.6
-20°	61468.1	65134.4	67861.2	68740.7	67861.2	65134.4	61468.1	56596.2	50925.4	45407.5	39185.9



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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°	53254.2	56279.7	58251.2	58736.7	58251.2	56279.7	53254.2	49816.6	45066.0	39429.8	34268.2
-25°	45302.8	46994.4	48029.2	48420.1	48029.2	46994.4	45302.8	42729.6	38802.4	34009.1	29351.8
-27.5°	38831.3	40037.8	40554.5	40757.8	40554.5	40037.8	38831.3	36588.7	33654.5	29608.3	25547.4
-30°	33414.0	34340.5	34908.2	35118.9	34908.2	34340.5	33414.0	31507.4	29013.0	25757.4	22362.7
-32.5°	28954.7	29876.9	30475.1	30689.7	30475.1	29876.9	28954.7	27132.9	24748.8	22138.3	19482.4
-35°	24779.3	25541.7	26086.7	26340.2	26086.7	25541.7	24779.3	23380.7	21317.7	19092.8	17096.8
-37.5°	21088.6	21776.4	22230.3	22371.2	22230.3	21776.4	21088.6	19975.8	18241.4	16569.8	14532.3
-40°	16915.3	17536.0	17881.3	17864.3	17881.3	17536.0	16915.3	16022.3	14437.4	12721.7	10774.0
-42.5°	12119.5	12746.3	13189.4	13522.5	13189.4	12746.3	12119.5	11230.6	9726.4	8004.2	6270.7
-45°	6885.3	7400.4	7732.0	7887.5	7732.0	7400.4	6885.3	6173.0	5108.7	3866.8	2682.3
-47.5°	2998.8	3092.3	3139.3	3139.8	3139.3	3092.3	2998.8	2871.3	2656.9	2386.2	2119.3
-50°	2302.2	2360.9	2394.8	2403.9	2394.8	2360.9	2302.2	2234.2	2140.3	2012.9	1889.0
-52.5°	2014.4	2034.7	2043.8	2044.7	2043.8	2034.7	2014.4	1992.7	1961.8	1897.8	1833.0
-55°	1941.1	1974.9	1988.4	1986.4	1988.4	1974.9	1941.1	1901.2	1854.1	1758.8	1655.7
-57.5°	1678.0	1711.7	1731.3	1737.9	1731.3	1711.7	1678.0	1634.9	1583.4	1483.7	1377.0
-60°	1301.8	1323.0	1341.4	1353.4	1341.4	1323.0	1301.8	1272.1	1233.8	1161.5	1076.8
-62.5°	974.3	992.1	1009.3	1021.4	1009.3	992.1	974.3	950.8	921.8	872.1	810.6
-65°	693.0	701.9	716.1	728.2	716.1	701.9	693.0	679.1	659.9	625.9	580.4
-67.5°	464.3	472.7	477.9	479.6	477.9	472.7	464.3	452.7	438.0	415.7	385.1
-70°	282.8	286.0	292.0	297.1	292.0	286.0	282.8	277.4	269.7	257.2	239.1
-72.5°	171.1	176.2	176.3	174.8	176.3	176.2	171.1	165.1	158.5	151.2	143.5
-75°	96.7	98.0	98.7	99.0	98.7	98.0	96.7	94.9	92.6	89.4	84.8
-77.5°	54.6	55.8	55.2	54.4	55.2	55.8	54.6	53.2	51.5	49.5	46.3
-80°	28.3	29.0	29.1	29.1	29.1	29.0	28.3	27.6	26.9	26.1	25.6
-82.5°	20.7	21.3	20.4	19.4	20.4	21.3	20.7	20.0	19.3	18.6	17.8
-85°	11.6	11.7	11.7	11.7	11.7	11.7	11.6	11.5	11.4	11.3	10.7
-87.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.7	5.7
-90°	1.9	1.9	1.0	0.0	1.0	1.9	1.9	1.9	1.9	1.9	2.4



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	4.9	5.3	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
87.5°	2.9	3.4	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
85°	3.8	3.8	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
82.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	4.1	4.2	4.2	4.1
80°	3.9	3.9	3.9	4.2	4.4	4.5	4.5	4.7	5.0	5.3	5.4
77.5°	3.9	3.9	4.0	4.5	5.0	5.4	5.8	5.7	5.7	5.7	5.7
75°	4.6	4.7	4.9	5.1	5.4	5.6	6.0	6.3	6.5	6.5	6.2
72.5°	6.8	7.1	7.3	7.4	7.2	7.3	7.5	7.6	7.7	7.8	7.4
70°	9.2	10.0	10.9	11.5	11.7	11.6	11.2	10.6	9.6	9.3	8.6
67.5°	10.9	11.9	13.6	15.7	16.9	17.5	17.2	16.2	15.1	14.0	11.1
65°	12.5	13.7	15.3	17.2	19.3	21.6	24.4	24.7	23.5	20.8	15.0
62.5°	13.5	15.3	16.5	17.7	19.4	22.9	29.1	32.5	33.3	29.3	22.1
60°	12.0	13.8	15.3	16.8	18.4	24.4	33.1	39.9	44.4	37.8	28.5
57.5°	9.6	10.5	12.6	14.7	16.9	24.9	35.1	45.9	53.1	43.1	33.7
55°	11.3	11.7	12.1	12.7	14.4	23.2	33.8	45.2	51.5	45.1	34.7
52.5°	11.6	12.2	12.7	13.3	15.3	21.1	28.9	40.4	43.8	38.6	32.5
50°	13.4	13.4	13.4	13.4	15.7	19.7	25.8	34.3	33.9	31.6	26.4
47.5°	17.2	16.9	15.7	15.3	17.6	18.5	23.0	26.8	27.5	25.2	21.3
45°	31.2	30.6	22.0	22.8	24.1	24.7	23.0	25.3	24.9	22.8	18.0
42.5°	58.4	60.0	60.8	45.0	36.6	36.1	33.7	31.6	29.2	24.4	21.9
40°	82.2	72.5	75.5	76.0	61.9	52.2	52.2	44.3	39.6	33.1	31.3
37.5°	125.8	104.7	111.8	96.9	88.5	84.0	83.0	70.4	53.5	58.6	55.1
35°	247.7	217.1	224.1	191.1	140.7	161.8	138.1	112.1	97.9	100.0	90.1
32.5°	603.3	595.2	485.2	410.7	353.1	312.2	258.9	183.6	192.3	178.1	142.9
30°	2088.8	1550.1	1094.5	974.7	897.2	600.2	445.7	432.7	346.0	288.0	216.8
27.5°	5400.7	3474.0	2622.6	2663.2	1968.1	1328.4	1073.1	873.5	594.0	448.4	342.6
25°	11428.5	8886.5	6643.4	5940.1	4560.1	3011.7	2400.3	1763.3	1119.7	649.1	526.4
22.5°	19761.9	16619.4	13185.0	10544.3	8425.1	6371.4	4694.0	3041.9	1789.2	1037.8	746.1
20°	28249.7	24969.7	20457.8	16373.2	13081.4	9918.6	7597.5	5063.7	3027.7	1630.5	979.2
17.5°	38645.8	33299.9	27398.1	22040.0	18066.8	14240.4	10362.4	7177.2	4472.0	2252.5	1218.3
15°	48729.5	40782.1	33422.4	27289.6	22541.1	17020.2	12705.1	9118.6	6121.2	3239.9	1681.6
12.5°	56700.4	47426.0	39113.8	30855.9	25184.7	19194.5	14867.6	11113.2	7619.4	4269.1	2077.5
10°	63216.8	52666.9	43014.7	34555.8	27665.7	21246.7	16259.9	12068.6	8181.4	4994.7	2439.3
7.5°	67210.6	56099.9	46167.4	37112.0	29765.2	23118.3	17102.2	12462.2	8464.9	5508.2	2758.8
5°	69164.0	58326.7	48219.5	38344.3	31120.3	24651.7	17930.6	12583.6	8505.0	5827.4	3026.7
2.5°	71059.1	59585.1	49384.7	38834.6	31864.7	25707.3	18761.3	12667.7	8582.9	5973.7	3115.4
0°	71816.5	60134.8	49891.9	38957.8	32132.5	26083.8	19520.6	12699.2	8633.1	5976.8	3132.1
-2.5°	71008.7	59382.5	49468.4	38610.1	31842.9	26063.4	19796.0	13657.5	9176.6	6266.7	3220.3
-5°	69156.4	57452.1	47218.7	37125.0	30270.5	24646.1	18958.6	13696.4	9302.7	6303.1	3225.0
-7.5°	64562.1	53907.4	44018.3	34847.2	28054.9	22522.8	17383.9	12765.8	8732.2	5748.5	2964.4
-10°	57961.0	49129.2	39738.0	31656.2	25369.5	20143.5	15735.7	11641.2	7998.3	5085.3	2642.0
-12.5°	51226.1	43148.2	34960.9	27746.9	22252.0	17428.4	13851.5	10338.0	7101.2	4332.1	2267.2
-15°	43507.0	36037.0	29913.2	24216.0	18943.3	14752.2	11873.6	9047.9	6313.7	3577.2	1847.2
-17.5°	37689.2	30408.5	25440.4	21096.2	16357.7	12511.7	10290.3	8072.2	5549.1	3014.4	1484.1
-20°	33364.1	27737.7	22729.8	18420.3	14463.9	11357.2	9272.1	7150.2	4653.5	2530.8	1405.0



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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°	29812.8	25484.7	20883.8	16296.9	12999.6	10602.5	8459.4	6194.5	3619.2	1924.1	1305.4
-25°	26179.6	22993.2	18926.6	15064.7	11928.4	9651.1	7403.6	4906.7	2829.3	1544.1	1198.8
-27.5°	22672.5	19872.4	16980.2	13688.1	11135.4	8476.5	5935.4	3550.0	1961.7	1404.4	1160.1
-30°	19419.7	17077.9	14800.4	12540.1	9931.8	7170.4	4235.4	2536.9	1602.6	1277.9	1120.0
-32.5°	16863.8	15065.3	13158.7	10946.8	8284.6	5298.4	3099.2	1762.5	1412.3	1225.3	1123.3
-35°	15199.4	13243.8	11219.7	8622.8	5912.0	3585.0	1977.6	1563.7	1319.2	1183.9	1139.1
-37.5°	12643.4	10720.7	8075.8	5587.0	3564.5	2135.0	1702.8	1437.2	1256.5	1197.2	1105.1
-40°	8753.8	6593.7	4727.8	2848.5	2131.1	1769.0	1543.3	1364.5	1288.7	1176.4	1045.8
-42.5°	4799.8	3224.9	2330.3	2027.1	1754.9	1608.7	1473.5	1399.7	1282.7	1122.7	955.5
-45°	2405.0	2139.6	1887.6	1763.5	1629.6	1555.3	1508.8	1369.8	1206.5	1026.0	851.3
-47.5°	1964.8	1851.3	1741.6	1677.9	1619.7	1547.6	1412.2	1265.7	1078.1	904.5	760.5
-50°	1798.5	1751.7	1707.9	1647.6	1522.7	1396.1	1251.9	1097.8	932.7	788.3	660.9
-52.5°	1758.9	1660.5	1560.9	1457.8	1331.4	1192.1	1052.6	924.2	788.6	669.9	561.2
-55°	1544.7	1435.6	1329.0	1216.7	1102.8	990.5	874.2	760.7	656.3	553.1	462.8
-57.5°	1269.2	1168.2	1077.1	987.5	900.6	804.1	706.6	612.1	528.8	445.4	365.1
-60°	988.4	901.1	838.7	772.2	701.4	622.4	547.5	475.0	405.5	342.7	278.6
-62.5°	746.6	680.9	628.0	574.7	518.4	458.4	400.3	349.6	298.7	247.0	204.9
-65°	532.6	482.8	437.6	399.8	361.0	320.7	277.5	241.8	209.9	176.3	142.6
-67.5°	352.3	317.5	285.7	258.6	237.6	215.1	189.4	161.9	141.3	123.8	105.0
-70°	220.5	201.7	184.3	167.1	152.9	140.5	126.5	111.8	97.1	83.9	70.6
-72.5°	135.0	125.8	116.6	107.4	97.6	89.1	80.3	70.4	60.0	49.2	40.7
-75°	79.5	73.5	67.3	61.6	55.4	48.7	44.0	39.9	35.7	31.5	27.3
-77.5°	43.1	40.1	37.3	35.1	32.7	29.9	26.9	24.3	22.7	21.1	19.4
-80°	25.1	24.3	23.5	22.5	21.5	20.5	19.5	18.2	16.9	15.6	14.4
-82.5°	17.0	16.2	15.3	14.8	14.4	13.8	13.2	12.4	11.7	11.0	10.4
-85°	10.1	9.5	9.0	8.9	8.9	9.0	9.0	8.9	8.8	8.7	8.6
-87.5°	5.7	5.8	5.8	6.2	6.7	7.1	7.4	7.4	7.3	7.3	7.2
-90°	2.9	3.4	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9



REPORT NUMBER: P701595 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	4.4	4.9	5.3
85°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	4.4	4.9	5.3
82.5°	3.9	3.9	3.9	3.9	4.2	4.4	4.5	4.4	4.6	4.9	5.4
80°	4.8	4.4	4.1	4.0	4.5	4.9	5.2	5.2	5.1	5.2	5.5
77.5°	5.4	4.9	4.3	4.0	4.5	5.0	5.4	5.8	5.7	5.5	5.6
75°	5.8	5.6	5.2	4.8	4.8	5.0	5.5	5.8	5.8	5.8	5.7
72.5°	6.6	6.1	5.9	5.8	5.5	5.4	5.6	5.8	5.8	5.8	5.8
70°	7.6	6.6	5.9	5.8	5.8	5.8	5.7	5.8	5.8	5.8	5.8
67.5°	8.8	7.7	6.6	5.9	5.8	5.8	5.8	5.8	5.8	5.8	5.8
65°	11.7	9.2	7.7	6.7	6.0	5.8	5.8	5.8	5.8	5.8	5.8
62.5°	15.7	10.7	8.7	7.5	6.5	5.9	5.8	5.8	5.8	5.8	5.8
60°	21.2	14.7	10.3	8.8	7.3	6.0	5.8	5.8	5.8	5.8	5.8
57.5°	24.8	18.2	13.9	10.6	8.8	6.9	6.0	6.0	5.8	5.8	5.8
55°	26.4	19.8	16.5	13.0	10.3	8.4	6.7	6.3	5.9	5.8	5.9
52.5°	24.7	20.7	18.1	14.7	11.6	9.9	8.1	6.7	6.3	5.8	6.0
50°	20.5	20.7	19.1	16.1	12.6	10.7	9.4	7.7	6.8	6.0	6.1
47.5°	18.3	20.2	19.7	17.2	13.7	11.5	10.2	8.7	7.4	6.5	6.2
45°	19.1	19.4	20.1	18.2	15.2	12.8	10.9	9.6	8.1	7.1	6.3
42.5°	21.7	21.3	20.3	19.5	17.1	14.2	11.6	10.2	8.8	7.7	6.6
40°	28.7	25.3	21.9	21.5	19.5	15.6	12.8	10.8	9.4	8.3	7.2
37.5°	37.9	32.6	26.7	26.2	22.7	18.0	14.0	11.4	10.0	8.8	7.6
35°	66.8	43.1	41.6	36.9	28.7	20.7	15.1	12.1	10.7	9.4	8.1
32.5°	103.6	78.3	73.6	55.2	36.5	23.7	17.1	13.7	11.5	9.9	8.6
30°	173.1	165.9	120.1	78.3	49.0	31.0	20.4	15.5	12.3	10.4	9.0
27.5°	304.6	281.6	187.7	121.0	71.2	40.4	25.5	17.7	13.1	11.0	9.4
25°	454.7	411.4	301.3	177.7	96.6	64.3	31.3	20.1	14.5	11.6	9.9
22.5°	625.9	547.5	433.7	243.1	148.7	96.3	44.2	24.7	16.4	12.3	10.2
20°	796.4	691.1	573.8	325.6	214.6	140.7	67.2	29.7	18.3	13.0	10.6
17.5°	972.7	809.7	649.4	425.1	282.7	188.7	94.3	34.9	20.3	13.7	11.0
15°	1115.5	887.9	715.6	511.2	346.8	239.3	124.6	40.2	22.4	14.3	11.2
12.5°	1232.5	961.4	777.0	584.8	406.7	291.6	157.0	45.6	24.5	14.9	11.4
10°	1338.5	1029.5	833.3	646.8	462.7	344.5	190.3	50.9	26.7	15.5	11.5
7.5°	1432.4	1091.6	884.2	698.3	507.9	377.5	211.0	55.9	29.0	16.1	11.6
5°	1505.7	1141.0	916.6	713.4	512.4	385.9	226.6	60.4	31.2	16.6	11.6
2.5°	1530.8	1174.4	936.2	718.1	513.3	389.3	238.5	64.5	33.2	17.1	11.7
0°	1539.8	1200.0	949.5	716.5	510.7	388.4	246.6	68.0	35.0	17.5	11.7
-2.5°	1552.4	1205.4	964.5	746.6	536.7	402.3	259.8	84.8	45.7	23.4	13.8
-5°	1550.3	1202.7	973.5	770.1	558.3	412.7	269.1	100.6	55.7	29.1	15.8
-7.5°	1497.3	1172.5	965.7	784.0	574.6	419.6	274.9	115.0	65.0	34.3	17.7
-10°	1422.1	1122.9	936.9	775.9	586.1	428.4	278.4	127.7	73.3	38.8	19.3
-12.5°	1333.6	1068.2	910.1	766.4	593.7	438.7	284.8	139.9	80.5	42.6	20.6
-15°	1232.3	1009.3	887.6	757.2	597.5	445.4	286.8	150.3	87.4	46.1	21.6
-17.5°	1128.7	947.3	871.7	749.6	597.8	448.6	284.2	157.9	92.7	49.5	23.2
-20°	1094.6	926.9	861.8	745.0	594.5	448.3	277.1	162.4	96.2	51.9	25.1



REPORT NUMBER: P701595 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-80-5S-CV1-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1065.6	945.7	860.8	737.1	588.8	444.6	265.2	163.5	97.7	53.0	26.5
-25°	1034.4	965.9	855.0	716.9	579.8	427.8	257.3	160.9	97.1	52.9	27.2
-27.5°	1040.2	977.4	840.0	687.7	552.9	405.3	253.6	159.8	95.3	51.5	27.3
-30°	1063.2	954.2	804.9	651.0	520.4	367.6	245.0	156.0	93.6	50.6	26.7
-32.5°	1067.3	919.9	756.2	611.1	477.6	328.9	227.8	149.2	89.9	49.8	26.5
-35°	1019.7	863.8	697.9	565.0	430.9	304.2	208.0	139.3	84.4	48.0	26.1
-37.5°	966.3	794.7	641.9	513.4	383.3	275.3	190.6	126.5	76.9	45.1	25.1
-40°	883.7	724.8	585.5	460.7	343.8	242.2	170.4	114.1	71.3	41.2	23.5
-42.5°	795.0	657.5	528.4	407.9	303.2	216.7	148.4	100.1	64.6	38.0	21.3
-45°	715.8	587.0	467.7	358.8	260.3	188.4	131.1	85.6	57.0	34.7	19.2
-47.5°	632.3	515.5	406.1	305.2	225.6	159.8	112.1	76.1	48.8	30.7	17.7
-50°	548.9	442.0	342.8	258.5	187.3	136.6	93.7	65.8	43.0	25.7	15.8
-52.5°	462.4	367.9	283.6	211.2	156.8	111.6	81.1	55.0	36.5	22.2	13.7
-55°	375.1	298.1	226.2	171.5	126.7	93.9	67.6	46.8	29.5	19.2	11.4
-57.5°	295.9	229.1	179.4	135.7	102.8	77.3	55.7	37.8	24.7	15.9	11.1
-60°	220.8	178.3	137.4	107.7	82.6	61.6	44.4	29.6	20.4	13.0	10.7
-62.5°	165.3	131.6	107.7	83.7	64.0	47.5	33.4	24.1	15.7	12.2	10.3
-65°	121.2	100.2	79.8	62.7	46.9	34.4	26.4	18.2	13.8	11.4	9.7
-67.5°	86.4	71.2	56.8	42.4	33.5	26.2	19.0	15.1	12.5	10.4	9.3
-70°	57.5	44.9	37.2	30.8	24.2	18.5	15.7	13.1	11.0	9.9	8.8
-72.5°	35.9	31.0	25.9	20.7	18.0	15.4	13.1	11.3	10.3	9.3	8.3
-75°	23.2	20.8	18.8	16.6	14.4	12.4	11.4	10.6	9.6	8.7	8.1
-77.5°	17.7	16.0	14.2	12.9	11.9	11.1	10.4	9.8	9.0	8.4	8.0
-80°	13.3	12.4	11.5	10.8	10.2	9.7	9.4	9.1	8.5	8.1	7.9
-82.5°	9.8	9.6	9.4	9.2	9.0	8.7	8.5	8.3	8.0	7.8	7.6
-85°	8.5	8.3	8.2	8.1	7.9	7.8	7.6	7.5	7.3	7.2	7.0
-87.5°	7.2	7.1	7.0	6.9	6.9	6.8	6.7	6.6	6.6	6.5	6.4
-90°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	4.4	4.9	5.3



REPORT NUMBER: P701595 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	5.8	5.8	5.8	5.8	5.8	5.8	5.8
87.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8
85°	5.8	5.8	5.8	5.8	5.8	5.8	5.8
82.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8
80°	5.8	5.8	5.8	5.8	5.8	5.8	5.8
77.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8
75°	5.8	5.8	5.8	5.8	5.8	5.8	5.8
72.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8
70°	5.8	5.8	5.8	5.8	5.8	5.8	5.8
67.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8
65°	5.8	5.8	5.8	5.8	5.8	5.8	5.8
62.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8
60°	5.8	5.8	5.8	5.8	5.8	5.8	5.8
57.5°	5.9	5.8	5.8	5.8	5.8	5.8	5.8
55°	6.0	5.8	5.8	5.8	5.8	5.8	5.8
52.5°	6.2	5.8	5.8	5.8	5.8	5.8	5.8
50°	6.4	6.0	5.8	5.8	5.8	5.8	5.8
47.5°	6.6	6.2	5.8	5.8	5.8	5.8	5.8
45°	6.7	6.4	5.8	5.8	5.8	5.8	5.8
42.5°	6.7	6.7	5.8	5.8	5.8	5.8	5.8
40°	6.8	6.9	5.9	5.8	5.8	5.8	5.8
37.5°	6.9	7.2	6.1	5.9	5.8	5.8	5.8
35°	7.1	7.4	6.3	5.9	5.8	5.8	5.8
32.5°	7.2	7.4	6.5	6.0	5.8	5.8	5.8
30°	7.6	7.5	6.7	6.1	5.8	5.8	5.8
27.5°	8.0	7.6	7.0	6.2	5.8	5.8	5.8
25°	8.3	7.7	7.2	6.3	5.8	5.8	5.8
22.5°	8.6	7.8	7.3	6.5	5.8	5.8	5.8
20°	9.0	7.8	7.5	6.6	5.8	5.8	5.8
17.5°	9.2	7.8	7.6	6.7	5.8	5.8	5.8
15°	9.3	7.8	7.7	6.9	5.8	5.8	5.8
12.5°	9.4	7.8	7.7	7.1	5.8	5.8	5.8
10°	9.5	7.8	7.8	7.2	5.8	5.8	5.8
7.5°	9.6	7.8	7.8	7.4	5.8	5.8	5.8
5°	9.7	7.8	7.8	7.5	5.8	5.8	5.8
2.5°	9.7	7.8	7.8	7.7	5.8	5.8	5.8
0°	9.7	7.8	7.8	7.8	5.8	5.8	5.8
-2.5°	10.2	8.0	7.8	7.8	5.9	5.8	5.8
-5°	10.7	8.2	7.8	7.8	6.0	5.8	5.8
-7.5°	11.1	8.4	7.8	7.8	6.1	5.8	5.8
-10°	11.5	8.6	7.8	7.7	6.1	5.8	5.8
-12.5°	11.8	8.7	7.8	7.7	6.2	5.8	5.8
-15°	12.1	8.8	7.8	7.7	6.3	5.8	5.8
-17.5°	12.2	8.9	7.8	7.6	6.3	5.8	5.8
-20°	12.7	8.9	7.8	7.6	6.4	5.8	5.8



REPORT NUMBER: P701595 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-57-80-5S-CV1-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	13.7	8.9	7.8	7.6	6.4	5.8	5.8
-25°	14.4	9.1	7.8	7.6	6.5	5.8	5.8
-27.5°	14.8	9.3	7.8	7.6	6.5	5.8	5.8
-30°	14.8	9.3	7.8	7.6	6.5	5.8	5.8
-32.5°	14.5	9.3	7.9	7.6	6.5	5.8	5.8
-35°	14.2	9.0	8.0	7.7	6.5	5.8	5.8
-37.5°	13.9	8.8	8.1	7.7	6.5	5.8	5.8
-40°	13.4	8.9	8.1	7.8	6.5	5.8	5.8
-42.5°	12.7	8.9	8.1	7.8	6.4	5.8	5.8
-45°	11.7	9.0	8.1	7.8	6.4	5.8	5.8
-47.5°	10.4	8.9	8.1	7.8	6.3	5.8	5.8
-50°	10.2	8.9	8.1	7.7	6.2	5.8	5.8
-52.5°	10.0	8.8	8.0	7.5	6.1	5.8	5.8
-55°	9.8	8.7	8.0	7.3	6.0	5.8	5.8
-57.5°	9.6	8.5	7.9	7.1	5.9	5.8	5.8
-60°	9.3	8.3	7.8	6.9	5.8	5.8	5.8
-62.5°	9.0	8.1	7.6	6.8	5.8	5.8	5.8
-65°	8.6	7.9	7.4	6.6	5.8	5.8	5.8
-67.5°	8.3	7.7	7.3	6.4	5.8	5.8	5.8
-70°	7.9	7.6	7.1	6.2	5.8	5.8	5.8
-72.5°	7.8	7.5	6.9	6.2	5.8	5.8	5.8
-75°	7.8	7.4	6.8	6.1	5.8	5.8	5.8
-77.5°	7.8	7.3	6.6	6.1	5.8	5.8	5.8
-80°	7.8	7.1	6.5	6.0	5.8	5.8	5.8
-82.5°	7.3	6.8	6.3	6.0	5.8	5.8	5.8
-85°	6.8	6.4	6.1	5.9	5.8	5.8	5.8
-87.5°	6.3	6.1	6.0	5.9	5.8	5.8	5.8
-90°	5.8	5.8	5.8	5.8	5.8	5.8	5.8

(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

