

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: P701394 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-40-70-4S-HEG-S**

Issue Date: 8/15/2023

Test Information

Test Method: LM-79-08
Report Number: P701394 (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-08-0320L-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

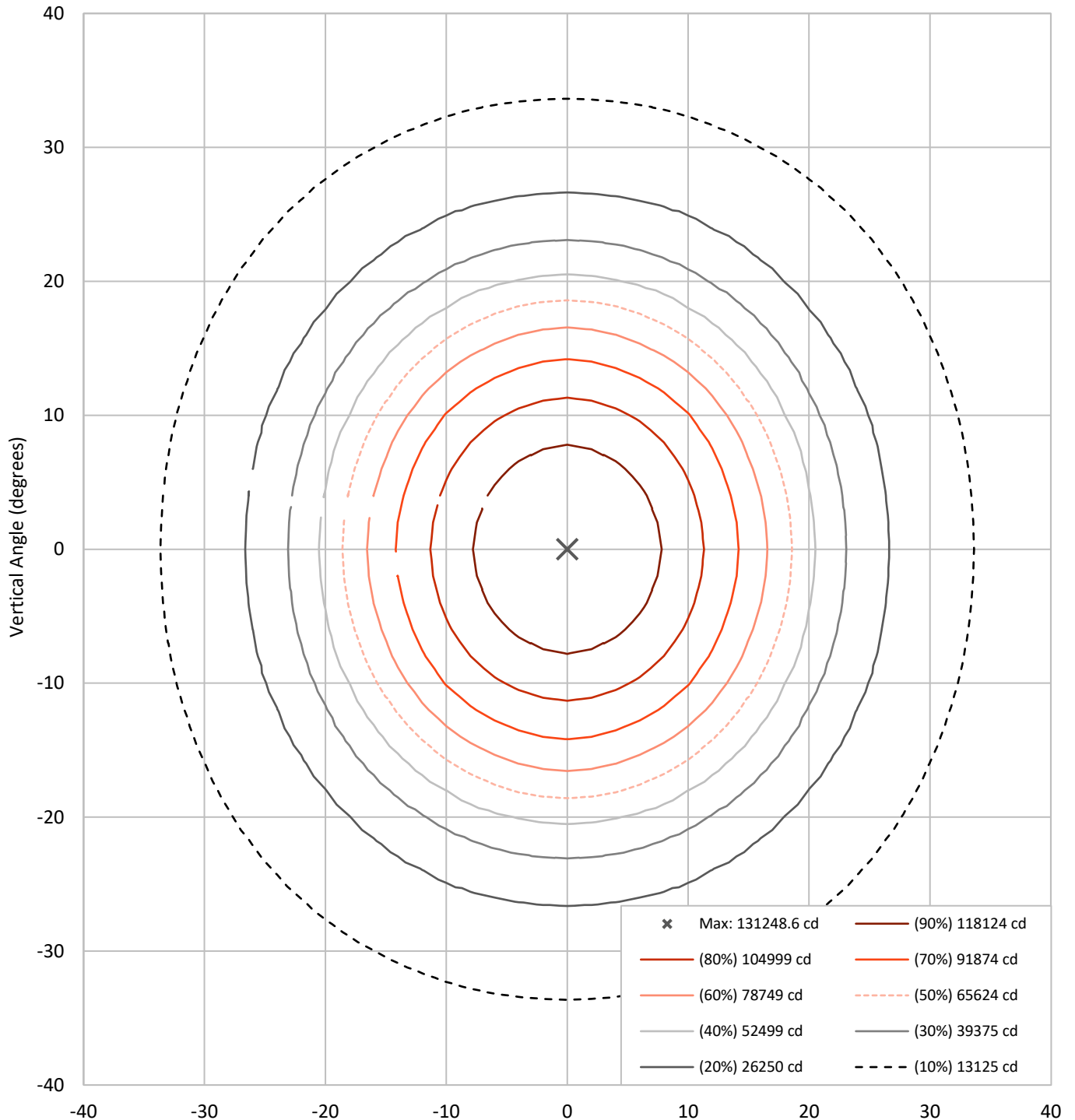
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	60611.9 lumens	Max Intensity:	131248.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	176.1 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:	31554 lumens	Field Lumens:	53005.4 lumens
Beam Efficiency:	52.1%	Field Efficiency:	87.5%

Input Watts (W): 344.2
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





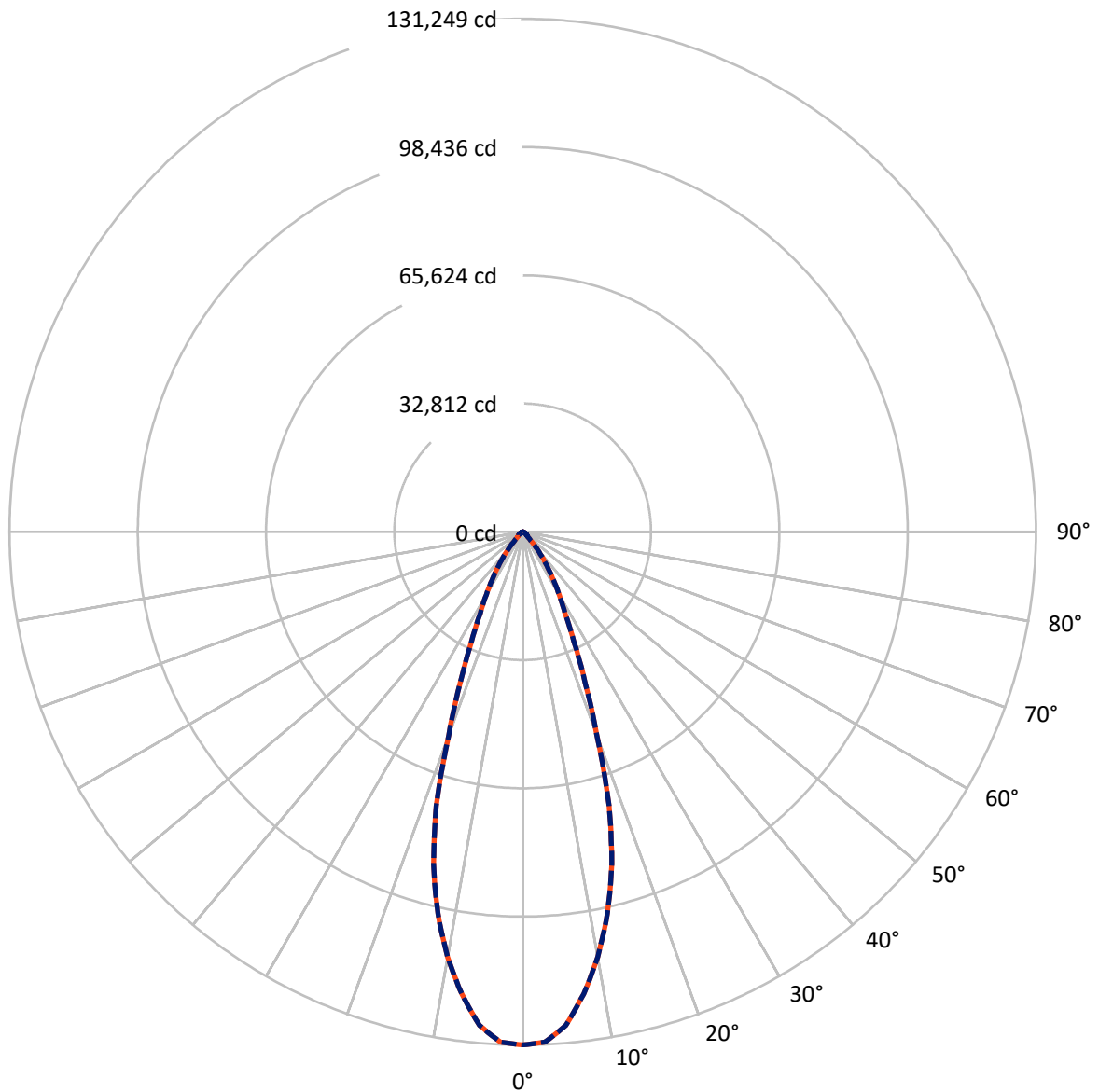
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Lumen Table

90																
80	0.1	0.5		1.8		4.3		5.6		4.3		1.8		0.5		0.1
70																
60	0.2	0.3	1.1	3.0	6.3	10.2	13.7	15.6	15.6	13.7	10.2	6.3	3.0	1.1	0.3	0.2
50		0.8	3.6	9.7	17.9	25.2	30.5	33.5	33.5	30.5	25.2	17.9	9.7	3.6	0.8	
40	0.6	1.9	8.0	18.2	28.2	39.2	56.3	74.3	74.3	56.3	39.2	28.2	18.2	8.0	1.9	0.6
30		3.4	12.7	24.4	42.4	114.0	241.3	334.7	334.7	241.3	114.0	42.4	24.4	12.7	3.4	
20	1.3	5.0	16.1	30.7	103.8	324.4	634.3	943.2	943.2	634.3	324.4	103.8	30.7	16.1	5.0	1.3
10		6.2	18.3	41.7	206.6	597.3	1479.2	2428.1	2428.1	1479.2	597.3	206.6	41.7	18.3	6.2	
0	1.6	6.9	19.4	53.7	278.1	863.7	2359.5	3554.2	3554.2	2359.5	863.7	278.1	53.7	19.4	6.9	1.6
-10		6.9	19.4	53.7	278.1	863.7	2359.5	3554.2	3554.2	2359.5	863.7	278.1	53.7	19.4	6.9	
-20	1.3	6.2	18.3	41.7	206.6	597.3	1479.2	2428.1	2428.1	1479.2	597.3	206.6	41.7	18.3	6.2	1.3
-30		5.0	16.1	30.7	103.8	324.4	634.3	943.2	943.2	634.3	324.4	103.8	30.7	16.1	5.0	
-40	0.6	3.4	12.7	24.4	42.4	114.0	241.3	334.7	334.7	241.3	114.0	42.4	24.4	12.7	3.4	0.6
-50		1.9	8.0	18.2	28.2	39.2	56.3	74.3	74.3	56.3	39.2	28.2	18.2	8.0	1.9	
-60	0.2	0.8	3.6	9.7	17.9	25.2	30.5	33.5	33.5	30.5	25.2	17.9	9.7	3.6	0.8	0.2
-70		0.3	1.1	3.0	6.3	10.2	13.7	15.6	15.6	13.7	10.2	6.3	3.0	1.1	0.3	
-80																
-90	0.1	0.5		1.8		4.3		5.6		4.3		1.8		0.5		0.1

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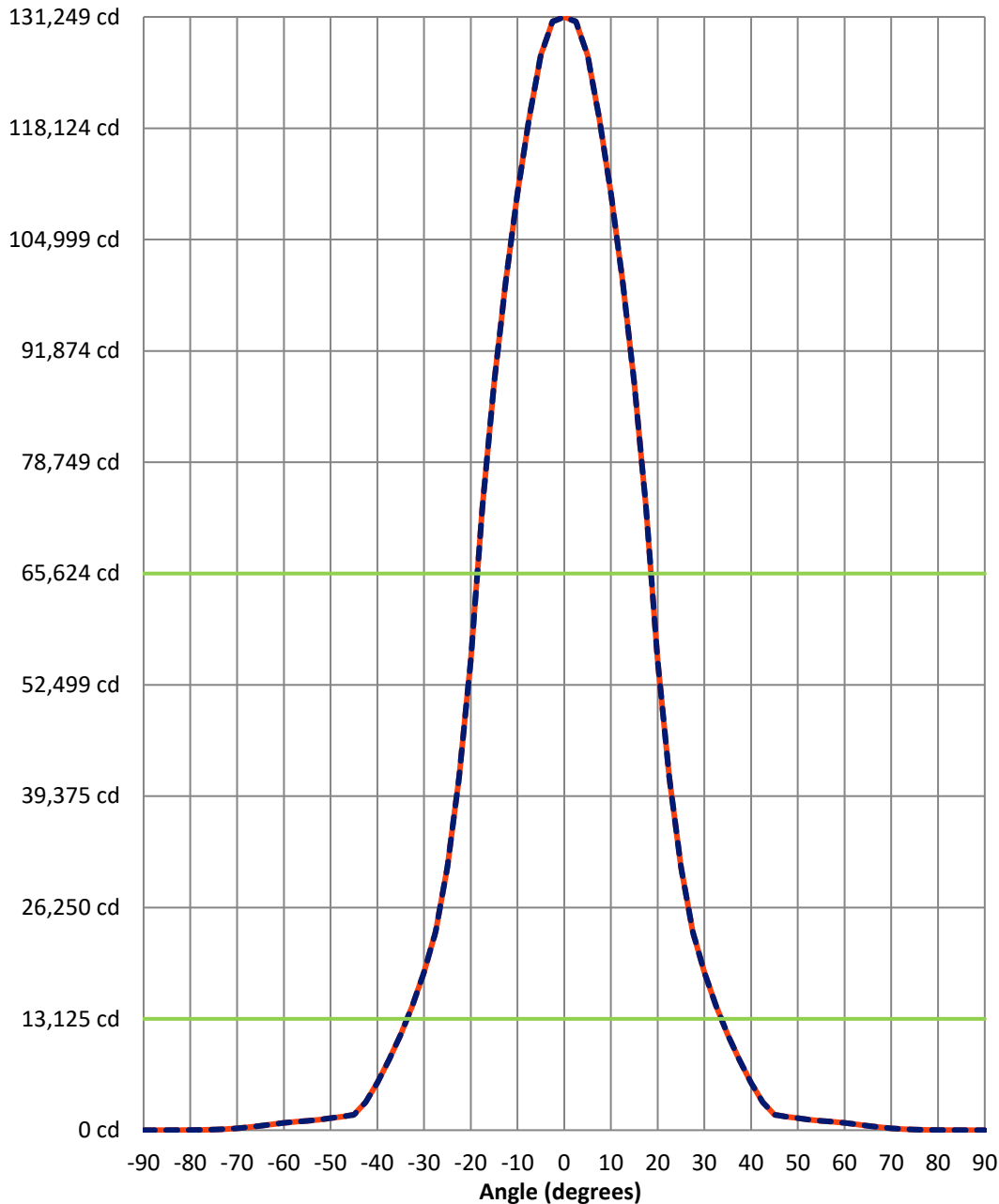
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 37.2°
V Angle: 37.2°
Lumens: 31554
Efficiency: 52.1%

Field:
H Angle: 67.2°
V Angle: 67.2°
Lumens: 53005.4
Efficiency: 87.5%

Spill:
Lumens: 7606.5
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	0.1	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.3
85°	0.0	0.3	0.5	0.8	1.0	1.3	1.6	1.8	2.0	2.3	2.5
82.5°	0.0	0.4	0.8	1.2	1.6	1.9	2.3	2.7	3.1	3.5	3.8
80°	0.0	0.5	1.0	1.6	2.1	2.6	3.1	3.6	4.1	4.6	5.1
77.5°	0.0	0.6	1.3	1.9	2.6	3.2	3.9	4.5	5.2	5.8	6.6
75°	0.0	0.8	1.6	2.3	3.1	3.9	4.7	5.4	6.3	7.5	8.7
72.5°	0.0	0.9	1.8	2.7	3.6	4.5	5.4	6.5	7.9	9.3	10.7
70°	0.0	1.0	2.0	3.1	4.1	5.2	6.3	7.9	9.5	11.1	12.7
67.5°	0.0	1.1	2.3	3.5	4.6	5.8	7.5	9.3	11.1	12.9	14.7
65°	0.0	1.3	2.5	3.8	5.1	6.6	8.7	10.7	12.7	14.7	18.0
62.5°	0.0	1.4	2.8	4.2	5.6	7.6	9.8	12.1	14.3	17.3	24.2
60°	0.0	1.5	3.0	4.5	6.1	8.5	11.0	13.4	15.8	22.8	30.4
57.5°	0.0	1.6	3.2	4.9	6.8	9.5	12.1	14.7	19.9	28.2	42.1
55°	0.0	1.7	3.5	5.2	7.5	10.4	13.2	16.0	24.6	35.1	56.3
52.5°	0.0	1.8	3.7	5.6	8.2	11.2	14.2	19.7	29.2	47.6	70.2
50°	0.0	1.9	3.9	5.9	8.9	12.1	15.3	23.5	35.4	59.7	88.2
47.5°	0.0	2.0	4.1	6.2	9.6	12.9	16.6	27.3	45.8	71.3	106.3
45°	0.0	2.1	4.3	6.7	10.2	13.7	19.6	30.9	55.8	86.9	123.7
42.5°	0.0	2.2	4.5	7.1	10.8	14.5	22.6	37.2	65.4	101.9	150.4
40°	0.0	2.3	4.6	7.6	11.4	15.2	25.4	45.2	75.7	116.2	177.7
37.5°	0.0	2.4	4.8	8.0	11.9	15.9	28.1	52.8	87.8	132.6	203.7
35°	0.0	2.5	5.0	8.4	12.5	17.5	30.6	60.0	99.3	154.6	232.5
32.5°	0.0	2.5	5.1	8.7	12.9	19.5	34.0	66.7	110.1	175.4	265.9
30°	0.0	2.6	5.3	9.1	13.4	21.3	39.4	73.7	120.2	194.9	297.2
27.5°	0.0	2.7	5.4	9.4	13.8	23.0	44.4	81.8	132.1	213.1	326.3
25°	0.0	2.7	5.5	9.7	14.2	24.6	49.1	89.4	146.8	234.5	353.4
22.5°	0.0	2.8	5.6	10.0	14.6	26.0	53.3	96.2	160.3	256.5	383.1
20°	0.0	2.8	5.7	10.2	14.9	27.3	57.1	102.4	172.4	276.2	409.8
17.5°	0.0	2.9	5.8	10.4	15.2	28.5	60.4	107.9	183.2	293.8	433.6
15°	0.0	2.9	5.9	10.6	15.4	29.5	63.4	112.7	192.6	309.1	454.4
12.5°	0.0	2.9	6.0	10.7	15.6	30.4	65.9	116.8	200.6	322.2	472.0
10°	0.0	3.0	6.0	10.9	15.8	31.0	67.9	120.1	207.2	332.9	486.6
7.5°	0.0	3.0	6.0	11.0	15.9	31.6	69.5	122.7	212.3	341.3	497.9
5°	0.0	3.0	6.1	11.0	16.0	32.0	70.7	124.6	216.0	347.3	506.1
2.5°	0.0	3.0	6.1	11.1	16.1	32.2	71.4	125.7	218.2	350.9	511.0
0°	0.0	3.0	6.1	11.1	16.1	32.2	71.4	125.7	218.2	350.9	511.0
-2.5°	0.0	3.0	6.1	11.1	16.1	32.2	71.4	125.7	218.2	350.9	511.0
-5°	0.0	3.0	6.1	11.0	16.0	32.0	70.7	124.6	216.0	347.3	506.1
-7.5°	0.0	3.0	6.0	11.0	15.9	31.6	69.5	122.7	212.3	341.3	497.9
-10°	0.0	3.0	6.0	10.9	15.8	31.0	67.9	120.1	207.2	332.9	486.6
-12.5°	0.0	2.9	6.0	10.7	15.6	30.4	65.9	116.8	200.6	322.2	472.0
-15°	0.0	2.9	5.9	10.6	15.4	29.5	63.4	112.7	192.6	309.1	454.4
-17.5°	0.0	2.9	5.8	10.4	15.2	28.5	60.4	107.9	183.2	293.8	433.6
-20°	0.0	2.8	5.7	10.2	14.9	27.3	57.1	102.4	172.4	276.2	409.8



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 CATALOG NUMBER: EPH-LS-08-0320L-40-70-4S-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	2.8	5.6	10.0	14.6	26.0	53.3	96.2	160.3	256.5	383.1
-25°	0.0	2.7	5.5	9.7	14.2	24.6	49.1	89.4	146.8	234.5	353.4
-27.5°	0.0	2.7	5.4	9.4	13.8	23.0	44.4	81.8	132.1	213.1	326.3
-30°	0.0	2.6	5.3	9.1	13.4	21.3	39.4	73.7	120.2	194.9	297.2
-32.5°	0.0	2.5	5.1	8.7	12.9	19.5	34.0	66.7	110.1	175.4	265.9
-35°	0.0	2.5	5.0	8.4	12.5	17.5	30.6	60.0	99.3	154.6	232.5
-37.5°	0.0	2.4	4.8	8.0	11.9	15.9	28.1	52.8	87.8	132.6	203.7
-40°	0.0	2.3	4.6	7.6	11.4	15.2	25.4	45.2	75.7	116.2	177.7
-42.5°	0.0	2.2	4.5	7.1	10.8	14.5	22.6	37.2	65.4	101.9	150.4
-45°	0.0	2.1	4.3	6.7	10.2	13.7	19.6	30.9	55.8	86.9	123.7
-47.5°	0.0	2.0	4.1	6.2	9.6	12.9	16.6	27.3	45.8	71.3	106.3
-50°	0.0	1.9	3.9	5.9	8.9	12.1	15.3	23.5	35.4	59.7	88.2
-52.5°	0.0	1.8	3.7	5.6	8.2	11.2	14.2	19.7	29.2	47.6	70.2
-55°	0.0	1.7	3.5	5.2	7.5	10.4	13.2	16.0	24.6	35.1	56.3
-57.5°	0.0	1.6	3.2	4.9	6.8	9.5	12.1	14.7	19.9	28.2	42.1
-60°	0.0	1.5	3.0	4.5	6.1	8.5	11.0	13.4	15.8	22.8	30.4
-62.5°	0.0	1.4	2.8	4.2	5.6	7.6	9.8	12.1	14.3	17.3	24.2
-65°	0.0	1.3	2.5	3.8	5.1	6.6	8.7	10.7	12.7	14.7	18.0
-67.5°	0.0	1.1	2.3	3.5	4.6	5.8	7.5	9.3	11.1	12.9	14.7
-70°	0.0	1.0	2.0	3.1	4.1	5.2	6.3	7.9	9.5	11.1	12.7
-72.5°	0.0	0.9	1.8	2.7	3.6	4.5	5.4	6.5	7.9	9.3	10.7
-75°	0.0	0.8	1.6	2.3	3.1	3.9	4.7	5.4	6.3	7.5	8.7
-77.5°	0.0	0.6	1.3	1.9	2.6	3.2	3.9	4.5	5.2	5.8	6.6
-80°	0.0	0.5	1.0	1.6	2.1	2.6	3.1	3.6	4.1	4.6	5.1
-82.5°	0.0	0.4	0.8	1.2	1.6	1.9	2.3	2.7	3.1	3.5	3.8
-85°	0.0	0.3	0.5	0.8	1.0	1.3	1.6	1.8	2.0	2.3	2.5
-87.5°	0.0	0.1	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.3
-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°	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4
85°	2.8	3.0	3.2	3.5	3.7	3.9	4.1	4.3	4.5	4.6	4.8
82.5°	4.2	4.5	4.9	5.2	5.6	5.9	6.2	6.7	7.1	7.6	8.0
80°	5.6	6.1	6.8	7.5	8.2	8.9	9.6	10.2	10.8	11.4	11.9
77.5°	7.6	8.5	9.5	10.4	11.2	12.1	12.9	13.7	14.5	15.2	15.9
75°	9.8	11.0	12.1	13.2	14.2	15.3	16.6	19.6	22.6	25.4	28.1
72.5°	12.1	13.4	14.7	16.0	19.7	23.5	27.3	30.9	37.2	45.2	52.8
70°	14.3	15.8	19.9	24.6	29.2	35.4	45.8	55.8	65.4	75.7	87.8
67.5°	17.3	22.8	28.2	35.1	47.6	59.7	71.3	86.9	101.9	116.2	132.6
65°	24.2	30.4	42.1	56.3	70.2	88.2	106.3	123.7	150.4	177.7	203.7
62.5°	31.1	45.6	61.6	79.4	100.5	121.0	151.2	183.9	215.3	257.0	298.3
60°	45.6	63.4	84.3	107.9	134.3	172.4	209.3	256.5	305.8	353.4	408.0
57.5°	61.6	84.3	110.4	142.8	185.2	229.8	287.3	343.0	405.8	468.0	529.1
55°	79.4	107.9	142.8	189.5	242.2	306.0	371.3	443.7	513.8	588.7	660.3
52.5°	100.5	134.3	185.2	242.2	312.2	386.5	466.7	548.1	631.8	711.6	785.8
50°	121.0	172.4	229.8	306.0	386.5	474.4	565.3	657.9	745.3	828.3	897.4
47.5°	151.2	209.3	287.3	371.3	466.7	565.3	666.7	762.3	854.1	923.9	989.1
45°	183.9	256.5	343.0	443.7	548.1	657.9	762.3	862.7	937.3	1005.9	1060.1
42.5°	215.3	305.8	405.8	513.8	631.8	745.3	854.1	937.3	1011.2	1070.8	1138.9
40°	257.0	353.4	468.0	588.7	711.6	828.3	923.9	1005.9	1070.8	1146.2	1227.0
37.5°	298.3	408.0	529.1	660.3	785.8	897.4	989.1	1060.1	1138.9	1227.0	1345.9
35°	337.4	459.8	592.1	727.2	856.7	955.6	1038.7	1117.2	1212.2	1335.2	1458.0
32.5°	379.0	508.9	651.6	789.3	909.5	1007.2	1085.0	1182.9	1303.4	1438.5	1558.0
30°	420.9	559.7	707.0	847.9	958.0	1047.9	1139.5	1250.9	1397.3	1528.1	1676.3
27.5°	459.8	607.5	757.3	893.2	1001.2	1086.1	1194.0	1333.6	1479.1	1620.6	1800.6
25°	495.8	651.6	803.8	932.0	1034.0	1129.9	1250.5	1410.7	1553.2	1729.8	2397.3
22.5°	530.6	692.0	846.4	967.6	1064.1	1173.2	1316.5	1475.5	1632.8	1856.1	3078.5
20°	563.7	727.2	879.7	998.5	1091.4	1212.5	1376.6	1533.6	1718.9	2437.2	3935.3
17.5°	593.2	758.5	906.0	1020.9	1122.4	1254.6	1429.5	1585.8	1796.4	2961.5	4818.8
15°	618.9	785.8	929.0	1040.5	1150.8	1298.2	1471.9	1646.5	2067.0	3499.5	5606.3
12.5°	640.9	809.1	948.6	1057.2	1175.0	1335.5	1508.1	1700.6	2435.0	4122.7	6404.6
10°	658.9	828.3	964.8	1071.0	1195.0	1366.3	1538.1	1745.4	2740.2	4640.5	7069.3
7.5°	673.0	843.3	977.5	1081.8	1210.7	1390.4	1561.7	1780.6	2980.2	5048.4	7594.0
5°	683.1	854.1	986.5	1089.6	1222.0	1407.8	1578.6	1805.9	3153.1	5342.6	7972.9
2.5°	689.2	860.5	992.0	1094.2	1228.7	1418.2	1588.8	1821.2	3257.4	5520.3	8202.0
0°	691.2	862.7	993.8	1095.8	1231.0	1421.7	1592.2	1826.3	3292.3	5579.7	8278.7
-2.5°	689.2	860.5	992.0	1094.2	1228.7	1418.2	1588.8	1821.2	3257.4	5520.3	8202.0
-5°	683.1	854.1	986.5	1089.6	1222.0	1407.8	1578.6	1805.9	3153.1	5342.6	7972.9
-7.5°	673.0	843.3	977.5	1081.8	1210.7	1390.4	1561.7	1780.6	2980.2	5048.4	7594.0
-10°	658.9	828.3	964.8	1071.0	1195.0	1366.3	1538.1	1745.4	2740.2	4640.5	7069.3
-12.5°	640.9	809.1	948.6	1057.2	1175.0	1335.5	1508.1	1700.6	2435.0	4122.7	6404.6
-15°	618.9	785.8	929.0	1040.5	1150.8	1298.2	1471.9	1646.5	2067.0	3499.5	5606.3
-17.5°	593.2	758.5	906.0	1020.9	1122.4	1254.6	1429.5	1585.8	1796.4	2961.5	4818.8
-20°	563.7	727.2	879.7	998.5	1091.4	1212.5	1376.6	1533.6	1718.9	2437.2	3935.3



REPORT NUMBER: P701394 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-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°	530.6	692.0	846.4	967.6	1064.1	1173.2	1316.5	1475.5	1632.8	1856.1	3078.5
-25°	495.8	651.6	803.8	932.0	1034.0	1129.9	1250.5	1410.7	1553.2	1729.8	2397.3
-27.5°	459.8	607.5	757.3	893.2	1001.2	1086.1	1194.0	1333.6	1479.1	1620.6	1800.6
-30°	420.9	559.7	707.0	847.9	958.0	1047.9	1139.5	1250.9	1397.3	1528.1	1676.3
-32.5°	379.0	508.9	651.6	789.3	909.5	1007.2	1085.0	1182.9	1303.4	1438.5	1558.0
-35°	337.4	459.8	592.1	727.2	856.7	955.6	1038.7	1117.2	1212.2	1335.2	1458.0
-37.5°	298.3	408.0	529.1	660.3	785.8	897.4	989.1	1060.1	1138.9	1227.0	1345.9
-40°	257.0	353.4	468.0	588.7	711.6	828.3	923.9	1005.9	1070.8	1146.2	1227.0
-42.5°	215.3	305.8	405.8	513.8	631.8	745.3	854.1	937.3	1011.2	1070.8	1138.9
-45°	183.9	256.5	343.0	443.7	548.1	657.9	762.3	862.7	937.3	1005.9	1060.1
-47.5°	151.2	209.3	287.3	371.3	466.7	565.3	666.7	762.3	854.1	923.9	989.1
-50°	121.0	172.4	229.8	306.0	386.5	474.4	565.3	657.9	745.3	828.3	897.4
-52.5°	100.5	134.3	185.2	242.2	312.2	386.5	466.7	548.1	631.8	711.6	785.8
-55°	79.4	107.9	142.8	189.5	242.2	306.0	371.3	443.7	513.8	588.7	660.3
-57.5°	61.6	84.3	110.4	142.8	185.2	229.8	287.3	343.0	405.8	468.0	529.1
-60°	45.6	63.4	84.3	107.9	134.3	172.4	209.3	256.5	305.8	353.4	408.0
-62.5°	31.1	45.6	61.6	79.4	100.5	121.0	151.2	183.9	215.3	257.0	298.3
-65°	24.2	30.4	42.1	56.3	70.2	88.2	106.3	123.7	150.4	177.7	203.7
-67.5°	17.3	22.8	28.2	35.1	47.6	59.7	71.3	86.9	101.9	116.2	132.6
-70°	14.3	15.8	19.9	24.6	29.2	35.4	45.8	55.8	65.4	75.7	87.8
-72.5°	12.1	13.4	14.7	16.0	19.7	23.5	27.3	30.9	37.2	45.2	52.8
-75°	9.8	11.0	12.1	13.2	14.2	15.3	16.6	19.6	22.6	25.4	28.1
-77.5°	7.6	8.5	9.5	10.4	11.2	12.1	12.9	13.7	14.5	15.2	15.9
-80°	5.6	6.1	6.8	7.5	8.2	8.9	9.6	10.2	10.8	11.4	11.9
-82.5°	4.2	4.5	4.9	5.2	5.6	5.9	6.2	6.7	7.1	7.6	8.0
-85°	2.8	3.0	3.2	3.5	3.7	3.9	4.1	4.3	4.5	4.6	4.8
-87.5°	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P701394 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-4S-HEG-S

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°	2.5	2.5	2.6	2.7	2.7	2.8	2.8	2.9	2.9	2.9	3.0
85°	5.0	5.1	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.0
82.5°	8.4	8.7	9.1	9.4	9.7	10.0	10.2	10.4	10.6	10.7	10.9
80°	12.5	12.9	13.4	13.8	14.2	14.6	14.9	15.2	15.4	15.6	15.8
77.5°	17.5	19.5	21.3	23.0	24.6	26.0	27.3	28.5	29.5	30.4	31.0
75°	30.6	34.0	39.4	44.4	49.1	53.3	57.1	60.4	63.4	65.9	67.9
72.5°	60.0	66.7	73.7	81.8	89.4	96.2	102.4	107.9	112.7	116.8	120.1
70°	99.3	110.1	120.2	132.1	146.8	160.3	172.4	183.2	192.6	200.6	207.2
67.5°	154.6	175.4	194.9	213.1	234.5	256.5	276.2	293.8	309.1	322.2	332.9
65°	232.5	265.9	297.2	326.3	353.4	383.1	409.8	433.6	454.4	472.0	486.6
62.5°	337.4	379.0	420.9	459.8	495.8	530.6	563.7	593.2	618.9	640.9	658.9
60°	459.8	508.9	559.7	607.5	651.6	692.0	727.2	758.5	785.8	809.1	828.3
57.5°	592.1	651.6	707.0	757.3	803.8	846.4	879.7	906.0	929.0	948.6	964.8
55°	727.2	789.3	847.9	893.2	932.0	967.6	998.5	1020.9	1040.5	1057.2	1071.0
52.5°	856.7	909.5	958.0	1001.2	1034.0	1064.1	1091.4	1122.4	1150.8	1175.0	1195.0
50°	955.6	1007.2	1047.9	1086.1	1129.9	1173.2	1212.5	1254.6	1298.2	1335.5	1366.3
47.5°	1038.7	1085.0	1139.5	1194.0	1250.5	1316.5	1376.6	1429.5	1471.9	1508.1	1538.1
45°	1117.2	1182.9	1250.9	1333.6	1410.7	1475.5	1533.6	1585.8	1646.5	1700.6	1745.4
42.5°	1212.2	1303.4	1397.3	1479.1	1553.2	1632.8	1718.9	1796.4	2067.0	2435.0	2740.2
40°	1335.2	1438.5	1528.1	1620.6	1729.8	1856.1	2437.2	2961.5	3499.5	4122.7	4640.5
37.5°	1458.0	1558.0	1676.3	1800.6	2397.3	3078.5	3935.3	4818.8	5606.3	6404.6	7069.3
35°	1568.0	1704.4	1935.7	2765.6	3691.8	4831.9	5937.6	7063.3	8064.5	8997.8	9795.2
32.5°	1704.4	2026.6	2952.1	4139.4	5443.5	6860.8	8195.0	9525.0	10719.9	11832.1	12828.3
30°	1935.7	2952.1	4290.0	5785.0	7425.9	9039.6	10619.4	12182.9	13667.0	15012.2	16278.9
27.5°	2765.6	4139.4	5785.0	7616.2	9473.2	11297.3	13241.7	15090.4	16964.0	18607.4	20298.9
25°	3691.8	5443.5	7425.9	9473.2	11557.0	13781.4	16067.6	18313.5	20730.2	22921.2	25546.1
22.5°	4831.9	6860.8	9039.6	11297.3	13781.4	16398.0	19089.5	22047.8	25492.2	29260.1	33059.7
20°	5937.6	8195.0	10619.4	13241.7	16067.6	19089.5	22494.7	26967.5	31802.8	37563.4	42843.4
17.5°	7063.3	9525.0	12182.9	15090.4	18313.5	22047.8	26967.5	32903.9	39898.3	47696.5	54964.3
15°	8064.5	10719.9	13667.0	16964.0	20730.2	25492.2	31802.8	39898.3	49361.1	59489.9	70109.7
12.5°	8997.8	11832.1	15012.2	18607.4	22921.2	29260.1	37563.4	47696.5	59489.9	72689.0	82455.4
10°	9795.2	12828.3	16278.9	20298.9	25546.1	33059.7	42843.4	54964.3	70109.7	82455.4	92517.6
7.5°	10426.0	13618.6	17286.9	21652.0	27893.6	36690.9	48169.6	62671.2	77941.4	90311.9	100205.0
5°	10882.4	14191.6	18020.0	22639.5	29614.4	39368.0	52126.6	68556.6	83415.9	95699.6	105687.8
2.5°	11158.7	14539.1	18465.3	23240.7	30665.6	41010.3	54568.3	72218.0	86862.8	99005.6	109199.7
0°	11251.2	14655.5	18614.7	23442.7	31019.2	41564.1	55394.2	73462.1	88041.9	100101.8	110441.4
-2.5°	11158.7	14539.1	18465.3	23240.7	30665.6	41010.3	54568.3	72218.0	86862.8	99005.6	109199.7
-5°	10882.4	14191.6	18020.0	22639.5	29614.4	39368.0	52126.6	68556.6	83415.9	95699.6	105687.8
-7.5°	10426.0	13618.6	17286.9	21652.0	27893.6	36690.9	48169.6	62671.2	77941.4	90311.9	100205.0
-10°	9795.2	12828.3	16278.9	20298.9	25546.1	33059.7	42843.4	54964.3	70109.7	82455.4	92517.6
-12.5°	8997.8	11832.1	15012.2	18607.4	22921.2	29260.1	37563.4	47696.5	59489.9	72689.0	82455.4
-15°	8064.5	10719.9	13667.0	16964.0	20730.2	25492.2	31802.8	39898.3	49361.1	59489.9	70109.7
-17.5°	7063.3	9525.0	12182.9	15090.4	18313.5	22047.8	26967.5	32903.9	39898.3	47696.5	54964.3
-20°	5937.6	8195.0	10619.4	13241.7	16067.6	19089.5	22494.7	26967.5	31802.8	37563.4	42843.4



REPORT NUMBER: P701394 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-4S-HEG-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	4831.9	6860.8	9039.6	11297.3	13781.4	16398.0	19089.5	22047.8	25492.2	29260.1	33059.7
-25°	3691.8	5443.5	7425.9	9473.2	11557.0	13781.4	16067.6	18313.5	20730.2	22921.2	25546.1
-27.5°	2765.6	4139.4	5785.0	7616.2	9473.2	11297.3	13241.7	15090.4	16964.0	18607.4	20298.9
-30°	1935.7	2952.1	4290.0	5785.0	7425.9	9039.6	10619.4	12182.9	13667.0	15012.2	16278.9
-32.5°	1704.4	2026.6	2952.1	4139.4	5443.5	6860.8	8195.0	9525.0	10719.9	11832.1	12828.3
-35°	1568.0	1704.4	1935.7	2765.6	3691.8	4831.9	5937.6	7063.3	8064.5	8997.8	9795.2
-37.5°	1458.0	1558.0	1676.3	1800.6	2397.3	3078.5	3935.3	4818.8	5606.3	6404.6	7069.3
-40°	1335.2	1438.5	1528.1	1620.6	1729.8	1856.1	2437.2	2961.5	3499.5	4122.7	4640.5
-42.5°	1212.2	1303.4	1397.3	1479.1	1553.2	1632.8	1718.9	1796.4	2067.0	2435.0	2740.2
-45°	1117.2	1182.9	1250.9	1333.6	1410.7	1475.5	1533.6	1585.8	1646.5	1700.6	1745.4
-47.5°	1038.7	1085.0	1139.5	1194.0	1250.5	1316.5	1376.6	1429.5	1471.9	1508.1	1538.1
-50°	955.6	1007.2	1047.9	1086.1	1129.9	1173.2	1212.5	1254.6	1298.2	1335.5	1366.3
-52.5°	856.7	909.5	958.0	1001.2	1034.0	1064.1	1091.4	1122.4	1150.8	1175.0	1195.0
-55°	727.2	789.3	847.9	893.2	932.0	967.6	998.5	1020.9	1040.5	1057.2	1071.0
-57.5°	592.1	651.6	707.0	757.3	803.8	846.4	879.7	906.0	929.0	948.6	964.8
-60°	459.8	508.9	559.7	607.5	651.6	692.0	727.2	758.5	785.8	809.1	828.3
-62.5°	337.4	379.0	420.9	459.8	495.8	530.6	563.7	593.2	618.9	640.9	658.9
-65°	232.5	265.9	297.2	326.3	353.4	383.1	409.8	433.6	454.4	472.0	486.6
-67.5°	154.6	175.4	194.9	213.1	234.5	256.5	276.2	293.8	309.1	322.2	332.9
-70°	99.3	110.1	120.2	132.1	146.8	160.3	172.4	183.2	192.6	200.6	207.2
-72.5°	60.0	66.7	73.7	81.8	89.4	96.2	102.4	107.9	112.7	116.8	120.1
-75°	30.6	34.0	39.4	44.4	49.1	53.3	57.1	60.4	63.4	65.9	67.9
-77.5°	17.5	19.5	21.3	23.0	24.6	26.0	27.3	28.5	29.5	30.4	31.0
-80°	12.5	12.9	13.4	13.8	14.2	14.6	14.9	15.2	15.4	15.6	15.8
-82.5°	8.4	8.7	9.1	9.4	9.7	10.0	10.2	10.4	10.6	10.7	10.9
-85°	5.0	5.1	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.0
-87.5°	2.5	2.5	2.6	2.7	2.7	2.8	2.8	2.9	2.9	2.9	3.0
-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: P701394 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-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°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.9
85°	6.0	6.1	6.1	6.1	6.1	6.1	6.0	6.0	6.0	5.9	5.8
82.5°	11.0	11.0	11.1	11.1	11.1	11.0	11.0	10.9	10.7	10.6	10.4
80°	15.9	16.0	16.1	16.1	16.1	16.0	15.9	15.8	15.6	15.4	15.2
77.5°	31.6	32.0	32.2	32.3	32.2	32.0	31.6	31.0	30.4	29.5	28.5
75°	69.5	70.7	71.4	71.6	71.4	70.7	69.5	67.9	65.9	63.4	60.4
72.5°	122.7	124.6	125.7	126.1	125.7	124.6	122.7	120.1	116.8	112.7	107.9
70°	212.3	216.0	218.2	218.9	218.2	216.0	212.3	207.2	200.6	192.6	183.2
67.5°	341.3	347.3	350.9	352.1	350.9	347.3	341.3	332.9	322.2	309.1	293.8
65°	497.9	506.1	511.0	512.6	511.0	506.1	497.9	486.6	472.0	454.4	433.6
62.5°	673.0	683.1	689.2	691.2	689.2	683.1	673.0	658.9	640.9	618.9	593.2
60°	843.3	854.1	860.5	862.7	860.5	854.1	843.3	828.3	809.1	785.8	758.5
57.5°	977.5	986.5	992.0	993.8	992.0	986.5	977.5	964.8	948.6	929.0	906.0
55°	1081.8	1089.6	1094.2	1095.8	1094.2	1089.6	1081.8	1071.0	1057.2	1040.5	1020.9
52.5°	1210.7	1222.0	1228.7	1231.0	1228.7	1222.0	1210.7	1195.0	1175.0	1150.8	1122.4
50°	1390.4	1407.8	1418.2	1421.7	1418.2	1407.8	1390.4	1366.3	1335.5	1298.2	1254.6
47.5°	1561.7	1578.6	1588.8	1592.2	1588.8	1578.6	1561.7	1538.1	1508.1	1471.9	1429.5
45°	1780.6	1805.9	1821.2	1826.3	1821.2	1805.9	1780.6	1745.4	1700.6	1646.5	1585.8
42.5°	2980.2	3153.1	3257.4	3292.3	3257.4	3153.1	2980.2	2740.2	2435.0	2067.0	1796.4
40°	5048.4	5342.6	5520.3	5579.7	5520.3	5342.6	5048.4	4640.5	4122.7	3499.5	2961.5
37.5°	7594.0	7972.9	8202.0	8278.7	8202.0	7972.9	7594.0	7069.3	6404.6	5606.3	4818.8
35°	10426.0	10882.4	11158.7	11251.2	11158.7	10882.4	10426.0	9795.2	8997.8	8064.5	7063.3
32.5°	13618.6	14191.6	14539.1	14655.5	14539.1	14191.6	13618.6	12828.3	11832.1	10719.9	9525.0
30°	17286.9	18020.0	18465.3	18614.7	18465.3	18020.0	17286.9	16278.9	15012.2	13667.0	12182.9
27.5°	21652.0	22639.5	23240.7	23442.7	23240.7	22639.5	21652.0	20298.9	18607.4	16964.0	15090.4
25°	27893.6	29614.4	30665.6	31019.2	30665.6	29614.4	27893.6	25546.1	22921.2	20730.2	18313.5
22.5°	36690.9	39368.0	41010.3	41564.1	41010.3	39368.0	36690.9	33059.7	29260.1	25492.2	22047.8
20°	48169.6	52126.6	54568.3	55394.2	54568.3	52126.6	48169.6	42843.4	37563.4	31802.8	26967.5
17.5°	62671.2	68556.6	72218.0	73462.1	72218.0	68556.6	62671.2	54964.3	47696.5	39898.3	32903.9
15°	77941.4	83415.9	86862.8	88041.9	86862.8	83415.9	77941.4	70109.7	59489.9	49361.1	39898.3
12.5°	90311.9	95699.6	99005.6	100101.8	99005.6	95699.6	90311.9	82455.4	72689.0	59489.9	47696.5
10°	100205.0	105687.8	109199.7	110441.4	109199.7	105687.8	100205.0	92517.6	82455.4	70109.7	54964.3
7.5°	108031.2	114219.6	117967.8	119301.8	117967.8	114219.6	108031.2	100205.0	90311.9	77941.4	62671.2
5°	114219.6	120734.9	125171.3	126732.4	125171.3	120734.9	114219.6	105687.8	95699.6	83415.9	68556.6
2.5°	117967.8	125171.3	129456.9	130688.2	129456.9	125171.3	117967.8	109199.7	99005.6	86862.8	72218.0
0°	119301.8	126732.4	130688.2	131248.6	130688.2	126732.4	119301.8	110441.4	100101.8	88041.9	73462.1
-2.5°	117967.8	125171.3	129456.9	130688.2	129456.9	125171.3	117967.8	109199.7	99005.6	86862.8	72218.0
-5°	114219.6	120734.9	125171.3	126732.4	125171.3	120734.9	114219.6	105687.8	95699.6	83415.9	68556.6
-7.5°	108031.2	114219.6	117967.8	119301.8	117967.8	114219.6	108031.2	100205.0	90311.9	77941.4	62671.2
-10°	100205.0	105687.8	109199.7	110441.4	109199.7	105687.8	100205.0	92517.6	82455.4	70109.7	54964.3
-12.5°	90311.9	95699.6	99005.6	100101.8	99005.6	95699.6	90311.9	82455.4	72689.0	59489.9	47696.5
-15°	77941.4	83415.9	86862.8	88041.9	86862.8	83415.9	77941.4	70109.7	59489.9	49361.1	39898.3
-17.5°	62671.2	68556.6	72218.0	73462.1	72218.0	68556.6	62671.2	54964.3	47696.5	39898.3	32903.9
-20°	48169.6	52126.6	54568.3	55394.2	54568.3	52126.6	48169.6	42843.4	37563.4	31802.8	26967.5



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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°	36690.9	39368.0	41010.3	41564.1	41010.3	39368.0	36690.9	33059.7	29260.1	25492.2	22047.8
-25°	27893.6	29614.4	30665.6	31019.2	30665.6	29614.4	27893.6	25546.1	22921.2	20730.2	18313.5
-27.5°	21652.0	22639.5	23240.7	23442.7	23240.7	22639.5	21652.0	20298.9	18607.4	16964.0	15090.4
-30°	17286.9	18020.0	18465.3	18614.7	18465.3	18020.0	17286.9	16278.9	15012.2	13667.0	12182.9
-32.5°	13618.6	14191.6	14539.1	14655.5	14539.1	14191.6	13618.6	12828.3	11832.1	10719.9	9525.0
-35°	10426.0	10882.4	11158.7	11251.2	11158.7	10882.4	10426.0	9795.2	8997.8	8064.5	7063.3
-37.5°	7594.0	7972.9	8202.0	8278.7	8202.0	7972.9	7594.0	7069.3	6404.6	5606.3	4818.8
-40°	5048.4	5342.6	5520.3	5579.7	5520.3	5342.6	5048.4	4640.5	4122.7	3499.5	2961.5
-42.5°	2980.2	3153.1	3257.4	3292.3	3257.4	3153.1	2980.2	2740.2	2435.0	2067.0	1796.4
-45°	1780.6	1805.9	1821.2	1826.3	1821.2	1805.9	1780.6	1745.4	1700.6	1646.5	1585.8
-47.5°	1561.7	1578.6	1588.8	1592.2	1588.8	1578.6	1561.7	1538.1	1508.1	1471.9	1429.5
-50°	1390.4	1407.8	1418.2	1421.7	1418.2	1407.8	1390.4	1366.3	1335.5	1298.2	1254.6
-52.5°	1210.7	1222.0	1228.7	1231.0	1228.7	1222.0	1210.7	1195.0	1175.0	1150.8	1122.4
-55°	1081.8	1089.6	1094.2	1095.8	1094.2	1089.6	1081.8	1071.0	1057.2	1040.5	1020.9
-57.5°	977.5	986.5	992.0	993.8	992.0	986.5	977.5	964.8	948.6	929.0	906.0
-60°	843.3	854.1	860.5	862.7	860.5	854.1	843.3	828.3	809.1	785.8	758.5
-62.5°	673.0	683.1	689.2	691.2	689.2	683.1	673.0	658.9	640.9	618.9	593.2
-65°	497.9	506.1	511.0	512.6	511.0	506.1	497.9	486.6	472.0	454.4	433.6
-67.5°	341.3	347.3	350.9	352.1	350.9	347.3	341.3	332.9	322.2	309.1	293.8
-70°	212.3	216.0	218.2	218.9	218.2	216.0	212.3	207.2	200.6	192.6	183.2
-72.5°	122.7	124.6	125.7	126.1	125.7	124.6	122.7	120.1	116.8	112.7	107.9
-75°	69.5	70.7	71.4	71.6	71.4	70.7	69.5	67.9	65.9	63.4	60.4
-77.5°	31.6	32.0	32.2	32.3	32.2	32.0	31.6	31.0	30.4	29.5	28.5
-80°	15.9	16.0	16.1	16.1	16.1	16.0	15.9	15.8	15.6	15.4	15.2
-82.5°	11.0	11.0	11.1	11.1	11.1	11.0	11.0	10.9	10.7	10.6	10.4
-85°	6.0	6.1	6.1	6.1	6.1	6.1	6.0	6.0	6.0	5.9	5.8
-87.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.9
-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°	2.8	2.8	2.7	2.7	2.6	2.5	2.5	2.4	2.3	2.2	2.1
85°	5.7	5.6	5.5	5.4	5.3	5.1	5.0	4.8	4.6	4.5	4.3
82.5°	10.2	10.0	9.7	9.4	9.1	8.7	8.4	8.0	7.6	7.1	6.7
80°	14.9	14.6	14.2	13.8	13.4	12.9	12.5	11.9	11.4	10.8	10.2
77.5°	27.3	26.0	24.6	23.0	21.3	19.5	17.5	15.9	15.2	14.5	13.7
75°	57.1	53.3	49.1	44.4	39.4	34.0	30.6	28.1	25.4	22.6	19.6
72.5°	102.4	96.2	89.4	81.8	73.7	66.7	60.0	52.8	45.2	37.2	30.9
70°	172.4	160.3	146.8	132.1	120.2	110.1	99.3	87.8	75.7	65.4	55.8
67.5°	276.2	256.5	234.5	213.1	194.9	175.4	154.6	132.6	116.2	101.9	86.9
65°	409.8	383.1	353.4	326.3	297.2	265.9	232.5	203.7	177.7	150.4	123.7
62.5°	563.7	530.6	495.8	459.8	420.9	379.0	337.4	298.3	257.0	215.3	183.9
60°	727.2	692.0	651.6	607.5	559.7	508.9	459.8	408.0	353.4	305.8	256.5
57.5°	879.7	846.4	803.8	757.3	707.0	651.6	592.1	529.1	468.0	405.8	343.0
55°	998.5	967.6	932.0	893.2	847.9	789.3	727.2	660.3	588.7	513.8	443.7
52.5°	1091.4	1064.1	1034.0	1001.2	958.0	909.5	856.7	785.8	711.6	631.8	548.1
50°	1212.5	1173.2	1129.9	1086.1	1047.9	1007.2	955.6	897.4	828.3	745.3	657.9
47.5°	1376.6	1316.5	1250.5	1194.0	1139.5	1085.0	1038.7	989.1	923.9	854.1	762.3
45°	1533.6	1475.5	1410.7	1333.6	1250.9	1182.9	1117.2	1060.1	1005.9	937.3	862.7
42.5°	1718.9	1632.8	1553.2	1479.1	1397.3	1303.4	1212.2	1138.9	1070.8	1011.2	937.3
40°	2437.2	1856.1	1729.8	1620.6	1528.1	1438.5	1335.2	1227.0	1146.2	1070.8	1005.9
37.5°	3935.3	3078.5	2397.3	1800.6	1676.3	1558.0	1458.0	1345.9	1227.0	1138.9	1060.1
35°	5937.6	4831.9	3691.8	2765.6	1935.7	1704.4	1568.0	1458.0	1335.2	1212.2	1117.2
32.5°	8195.0	6860.8	5443.5	4139.4	2952.1	2026.6	1704.4	1558.0	1438.5	1303.4	1182.9
30°	10619.4	9039.6	7425.9	5785.0	4290.0	2952.1	1935.7	1676.3	1528.1	1397.3	1250.9
27.5°	13241.7	11297.3	9473.2	7616.2	5785.0	4139.4	2765.6	1800.6	1620.6	1479.1	1333.6
25°	16067.6	13781.4	11557.0	9473.2	7425.9	5443.5	3691.8	2397.3	1729.8	1553.2	1410.7
22.5°	19089.5	16398.0	13781.4	11297.3	9039.6	6860.8	4831.9	3078.5	1856.1	1632.8	1475.5
20°	22494.7	19089.5	16067.6	13241.7	10619.4	8195.0	5937.6	3935.3	2437.2	1718.9	1533.6
17.5°	26967.5	22047.8	18313.5	15090.4	12182.9	9525.0	7063.3	4818.8	2961.5	1796.4	1585.8
15°	31802.8	25492.2	20730.2	16964.0	13667.0	10719.9	8064.5	5606.3	3499.5	2067.0	1646.5
12.5°	37563.4	29260.1	22921.2	18607.4	15012.2	11832.1	8997.8	6404.6	4122.7	2435.0	1700.6
10°	42843.4	33059.7	25546.1	20298.9	16278.9	12828.3	9795.2	7069.3	4640.5	2740.2	1745.4
7.5°	48169.6	36690.9	27893.6	21652.0	17286.9	13618.6	10426.0	7594.0	5048.4	2980.2	1780.6
5°	52126.6	39368.0	29614.4	22639.5	18020.0	14191.6	10882.4	7972.9	5342.6	3153.1	1805.9
2.5°	54568.3	41010.3	30665.6	23240.7	18465.3	14539.1	11158.7	8202.0	5520.3	3257.4	1821.2
0°	55394.2	41564.1	31019.2	23442.7	18614.7	14655.5	11251.2	8278.7	5579.7	3292.3	1826.3
-2.5°	54568.3	41010.3	30665.6	23240.7	18465.3	14539.1	11158.7	8202.0	5520.3	3257.4	1821.2
-5°	52126.6	39368.0	29614.4	22639.5	18020.0	14191.6	10882.4	7972.9	5342.6	3153.1	1805.9
-7.5°	48169.6	36690.9	27893.6	21652.0	17286.9	13618.6	10426.0	7594.0	5048.4	2980.2	1780.6
-10°	42843.4	33059.7	25546.1	20298.9	16278.9	12828.3	9795.2	7069.3	4640.5	2740.2	1745.4
-12.5°	37563.4	29260.1	22921.2	18607.4	15012.2	11832.1	8997.8	6404.6	4122.7	2435.0	1700.6
-15°	31802.8	25492.2	20730.2	16964.0	13667.0	10719.9	8064.5	5606.3	3499.5	2067.0	1646.5
-17.5°	26967.5	22047.8	18313.5	15090.4	12182.9	9525.0	7063.3	4818.8	2961.5	1796.4	1585.8
-20°	22494.7	19089.5	16067.6	13241.7	10619.4	8195.0	5937.6	3935.3	2437.2	1718.9	1533.6



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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°	19089.5	16398.0	13781.4	11297.3	9039.6	6860.8	4831.9	3078.5	1856.1	1632.8	1475.5
-25°	16067.6	13781.4	11557.0	9473.2	7425.9	5443.5	3691.8	2397.3	1729.8	1553.2	1410.7
-27.5°	13241.7	11297.3	9473.2	7616.2	5785.0	4139.4	2765.6	1800.6	1620.6	1479.1	1333.6
-30°	10619.4	9039.6	7425.9	5785.0	4290.0	2952.1	1935.7	1676.3	1528.1	1397.3	1250.9
-32.5°	8195.0	6860.8	5443.5	4139.4	2952.1	2026.6	1704.4	1558.0	1438.5	1303.4	1182.9
-35°	5937.6	4831.9	3691.8	2765.6	1935.7	1704.4	1568.0	1458.0	1335.2	1212.2	1117.2
-37.5°	3935.3	3078.5	2397.3	1800.6	1676.3	1558.0	1458.0	1345.9	1227.0	1138.9	1060.1
-40°	2437.2	1856.1	1729.8	1620.6	1528.1	1438.5	1335.2	1227.0	1146.2	1070.8	1005.9
-42.5°	1718.9	1632.8	1553.2	1479.1	1397.3	1303.4	1212.2	1138.9	1070.8	1011.2	937.3
-45°	1533.6	1475.5	1410.7	1333.6	1250.9	1182.9	1117.2	1060.1	1005.9	937.3	862.7
-47.5°	1376.6	1316.5	1250.5	1194.0	1139.5	1085.0	1038.7	989.1	923.9	854.1	762.3
-50°	1212.5	1173.2	1129.9	1086.1	1047.9	1007.2	955.6	897.4	828.3	745.3	657.9
-52.5°	1091.4	1064.1	1034.0	1001.2	958.0	909.5	856.7	785.8	711.6	631.8	548.1
-55°	998.5	967.6	932.0	893.2	847.9	789.3	727.2	660.3	588.7	513.8	443.7
-57.5°	879.7	846.4	803.8	757.3	707.0	651.6	592.1	529.1	468.0	405.8	343.0
-60°	727.2	692.0	651.6	607.5	559.7	508.9	459.8	408.0	353.4	305.8	256.5
-62.5°	563.7	530.6	495.8	459.8	420.9	379.0	337.4	298.3	257.0	215.3	183.9
-65°	409.8	383.1	353.4	326.3	297.2	265.9	232.5	203.7	177.7	150.4	123.7
-67.5°	276.2	256.5	234.5	213.1	194.9	175.4	154.6	132.6	116.2	101.9	86.9
-70°	172.4	160.3	146.8	132.1	120.2	110.1	99.3	87.8	75.7	65.4	55.8
-72.5°	102.4	96.2	89.4	81.8	73.7	66.7	60.0	52.8	45.2	37.2	30.9
-75°	57.1	53.3	49.1	44.4	39.4	34.0	30.6	28.1	25.4	22.6	19.6
-77.5°	27.3	26.0	24.6	23.0	21.3	19.5	17.5	15.9	15.2	14.5	13.7
-80°	14.9	14.6	14.2	13.8	13.4	12.9	12.5	11.9	11.4	10.8	10.2
-82.5°	10.2	10.0	9.7	9.4	9.1	8.7	8.4	8.0	7.6	7.1	6.7
-85°	5.7	5.6	5.5	5.4	5.3	5.1	5.0	4.8	4.6	4.5	4.3
-87.5°	2.8	2.8	2.7	2.7	2.6	2.5	2.5	2.4	2.3	2.2	2.1
-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: P701394 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-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°	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.1	1.0	0.9
85°	4.1	3.9	3.7	3.5	3.2	3.0	2.8	2.5	2.3	2.0	1.8
82.5°	6.2	5.9	5.6	5.2	4.9	4.5	4.2	3.8	3.5	3.1	2.7
80°	9.6	8.9	8.2	7.5	6.8	6.1	5.6	5.1	4.6	4.1	3.6
77.5°	12.9	12.1	11.2	10.4	9.5	8.5	7.6	6.6	5.8	5.2	4.5
75°	16.6	15.3	14.2	13.2	12.1	11.0	9.8	8.7	7.5	6.3	5.4
72.5°	27.3	23.5	19.7	16.0	14.7	13.4	12.1	10.7	9.3	7.9	6.5
70°	45.8	35.4	29.2	24.6	19.9	15.8	14.3	12.7	11.1	9.5	7.9
67.5°	71.3	59.7	47.6	35.1	28.2	22.8	17.3	14.7	12.9	11.1	9.3
65°	106.3	88.2	70.2	56.3	42.1	30.4	24.2	18.0	14.7	12.7	10.7
62.5°	151.2	121.0	100.5	79.4	61.6	45.6	31.1	24.2	17.3	14.3	12.1
60°	209.3	172.4	134.3	107.9	84.3	63.4	45.6	30.4	22.8	15.8	13.4
57.5°	287.3	229.8	185.2	142.8	110.4	84.3	61.6	42.1	28.2	19.9	14.7
55°	371.3	306.0	242.2	189.5	142.8	107.9	79.4	56.3	35.1	24.6	16.0
52.5°	466.7	386.5	312.2	242.2	185.2	134.3	100.5	70.2	47.6	29.2	19.7
50°	565.3	474.4	386.5	306.0	229.8	172.4	121.0	88.2	59.7	35.4	23.5
47.5°	666.7	565.3	466.7	371.3	287.3	209.3	151.2	106.3	71.3	45.8	27.3
45°	762.3	657.9	548.1	443.7	343.0	256.5	183.9	123.7	86.9	55.8	30.9
42.5°	854.1	745.3	631.8	513.8	405.8	305.8	215.3	150.4	101.9	65.4	37.2
40°	923.9	828.3	711.6	588.7	468.0	353.4	257.0	177.7	116.2	75.7	45.2
37.5°	989.1	897.4	785.8	660.3	529.1	408.0	298.3	203.7	132.6	87.8	52.8
35°	1038.7	955.6	856.7	727.2	592.1	459.8	337.4	232.5	154.6	99.3	60.0
32.5°	1085.0	1007.2	909.5	789.3	651.6	508.9	379.0	265.9	175.4	110.1	66.7
30°	1139.5	1047.9	958.0	847.9	707.0	559.7	420.9	297.2	194.9	120.2	73.7
27.5°	1194.0	1086.1	1001.2	893.2	757.3	607.5	459.8	326.3	213.1	132.1	81.8
25°	1250.5	1129.9	1034.0	932.0	803.8	651.6	495.8	353.4	234.5	146.8	89.4
22.5°	1316.5	1173.2	1064.1	967.6	846.4	692.0	530.6	383.1	256.5	160.3	96.2
20°	1376.6	1212.5	1091.4	998.5	879.7	727.2	563.7	409.8	276.2	172.4	102.4
17.5°	1429.5	1254.6	1122.4	1020.9	906.0	758.5	593.2	433.6	293.8	183.2	107.9
15°	1471.9	1298.2	1150.8	1040.5	929.0	785.8	618.9	454.4	309.1	192.6	112.7
12.5°	1508.1	1335.5	1175.0	1057.2	948.6	809.1	640.9	472.0	322.2	200.6	116.8
10°	1538.1	1366.3	1195.0	1071.0	964.8	828.3	658.9	486.6	332.9	207.2	120.1
7.5°	1561.7	1390.4	1210.7	1081.8	977.5	843.3	673.0	497.9	341.3	212.3	122.7
5°	1578.6	1407.8	1222.0	1089.6	986.5	854.1	683.1	506.1	347.3	216.0	124.6
2.5°	1588.8	1418.2	1228.7	1094.2	992.0	860.5	689.2	511.0	350.9	218.2	125.7
0°	1592.2	1421.7	1231.0	1095.8	993.8	862.7	691.2	512.6	352.1	218.9	126.1
-2.5°	1588.8	1418.2	1228.7	1094.2	992.0	860.5	689.2	511.0	350.9	218.2	125.7
-5°	1578.6	1407.8	1222.0	1089.6	986.5	854.1	683.1	506.1	347.3	216.0	124.6
-7.5°	1561.7	1390.4	1210.7	1081.8	977.5	843.3	673.0	497.9	341.3	212.3	122.7
-10°	1538.1	1366.3	1195.0	1071.0	964.8	828.3	658.9	486.6	332.9	207.2	120.1
-12.5°	1508.1	1335.5	1175.0	1057.2	948.6	809.1	640.9	472.0	322.2	200.6	116.8
-15°	1471.9	1298.2	1150.8	1040.5	929.0	785.8	618.9	454.4	309.1	192.6	112.7
-17.5°	1429.5	1254.6	1122.4	1020.9	906.0	758.5	593.2	433.6	293.8	183.2	107.9
-20°	1376.6	1212.5	1091.4	998.5	879.7	727.2	563.7	409.8	276.2	172.4	102.4



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1316.5	1173.2	1064.1	967.6	846.4	692.0	530.6	383.1	256.5	160.3	96.2
-25°	1250.5	1129.9	1034.0	932.0	803.8	651.6	495.8	353.4	234.5	146.8	89.4
-27.5°	1194.0	1086.1	1001.2	893.2	757.3	607.5	459.8	326.3	213.1	132.1	81.8
-30°	1139.5	1047.9	958.0	847.9	707.0	559.7	420.9	297.2	194.9	120.2	73.7
-32.5°	1085.0	1007.2	909.5	789.3	651.6	508.9	379.0	265.9	175.4	110.1	66.7
-35°	1038.7	955.6	856.7	727.2	592.1	459.8	337.4	232.5	154.6	99.3	60.0
-37.5°	989.1	897.4	785.8	660.3	529.1	408.0	298.3	203.7	132.6	87.8	52.8
-40°	923.9	828.3	711.6	588.7	468.0	353.4	257.0	177.7	116.2	75.7	45.2
-42.5°	854.1	745.3	631.8	513.8	405.8	305.8	215.3	150.4	101.9	65.4	37.2
-45°	762.3	657.9	548.1	443.7	343.0	256.5	183.9	123.7	86.9	55.8	30.9
-47.5°	666.7	565.3	466.7	371.3	287.3	209.3	151.2	106.3	71.3	45.8	27.3
-50°	565.3	474.4	386.5	306.0	229.8	172.4	121.0	88.2	59.7	35.4	23.5
-52.5°	466.7	386.5	312.2	242.2	185.2	134.3	100.5	70.2	47.6	29.2	19.7
-55°	371.3	306.0	242.2	189.5	142.8	107.9	79.4	56.3	35.1	24.6	16.0
-57.5°	287.3	229.8	185.2	142.8	110.4	84.3	61.6	42.1	28.2	19.9	14.7
-60°	209.3	172.4	134.3	107.9	84.3	63.4	45.6	30.4	22.8	15.8	13.4
-62.5°	151.2	121.0	100.5	79.4	61.6	45.6	31.1	24.2	17.3	14.3	12.1
-65°	106.3	88.2	70.2	56.3	42.1	30.4	24.2	18.0	14.7	12.7	10.7
-67.5°	71.3	59.7	47.6	35.1	28.2	22.8	17.3	14.7	12.9	11.1	9.3
-70°	45.8	35.4	29.2	24.6	19.9	15.8	14.3	12.7	11.1	9.5	7.9
-72.5°	27.3	23.5	19.7	16.0	14.7	13.4	12.1	10.7	9.3	7.9	6.5
-75°	16.6	15.3	14.2	13.2	12.1	11.0	9.8	8.7	7.5	6.3	5.4
-77.5°	12.9	12.1	11.2	10.4	9.5	8.5	7.6	6.6	5.8	5.2	4.5
-80°	9.6	8.9	8.2	7.5	6.8	6.1	5.6	5.1	4.6	4.1	3.6
-82.5°	6.2	5.9	5.6	5.2	4.9	4.5	4.2	3.8	3.5	3.1	2.7
-85°	4.1	3.9	3.7	3.5	3.2	3.0	2.8	2.5	2.3	2.0	1.8
-87.5°	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.1	1.0	0.9
-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):

	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°	0.8	0.6	0.5	0.4	0.3	0.1	0.0
85°	1.6	1.3	1.0	0.8	0.5	0.3	0.0
82.5°	2.3	1.9	1.6	1.2	0.8	0.4	0.0
80°	3.1	2.6	2.1	1.6	1.0	0.5	0.0
77.5°	3.9	3.2	2.6	1.9	1.3	0.6	0.0
75°	4.7	3.9	3.1	2.3	1.6	0.8	0.0
72.5°	5.4	4.5	3.6	2.7	1.8	0.9	0.0
70°	6.3	5.2	4.1	3.1	2.0	1.0	0.0
67.5°	7.5	5.8	4.6	3.5	2.3	1.1	0.0
65°	8.7	6.6	5.1	3.8	2.5	1.3	0.0
62.5°	9.8	7.6	5.6	4.2	2.8	1.4	0.0
60°	11.0	8.5	6.1	4.5	3.0	1.5	0.0
57.5°	12.1	9.5	6.8	4.9	3.2	1.6	0.0
55°	13.2	10.4	7.5	5.2	3.5	1.7	0.0
52.5°	14.2	11.2	8.2	5.6	3.7	1.8	0.0
50°	15.3	12.1	8.9	5.9	3.9	1.9	0.0
47.5°	16.6	12.9	9.6	6.2	4.1	2.0	0.0
45°	19.6	13.7	10.2	6.7	4.3	2.1	0.0
42.5°	22.6	14.5	10.8	7.1	4.5	2.2	0.0
40°	25.4	15.2	11.4	7.6	4.6	2.3	0.0
37.5°	28.1	15.9	11.9	8.0	4.8	2.4	0.0
35°	30.6	17.5	12.5	8.4	5.0	2.5	0.0
32.5°	34.0	19.5	12.9	8.7	5.1	2.5	0.0
30°	39.4	21.3	13.4	9.1	5.3	2.6	0.0
27.5°	44.4	23.0	13.8	9.4	5.4	2.7	0.0
25°	49.1	24.6	14.2	9.7	5.5	2.7	0.0
22.5°	53.3	26.0	14.6	10.0	5.6	2.8	0.0
20°	57.1	27.3	14.9	10.2	5.7	2.8	0.0
17.5°	60.4	28.5	15.2	10.4	5.8	2.9	0.0
15°	63.4	29.5	15.4	10.6	5.9	2.9	0.0
12.5°	65.9	30.4	15.6	10.7	6.0	2.9	0.0
10°	67.9	31.0	15.8	10.9	6.0	3.0	0.0
7.5°	69.5	31.6	15.9	11.0	6.0	3.0	0.0
5°	70.7	32.0	16.0	11.0	6.1	3.0	0.0
2.5°	71.4	32.2	16.1	11.1	6.1	3.0	0.0
0°	71.6	32.3	16.1	11.1	6.1	3.0	0.0
-2.5°	71.4	32.2	16.1	11.1	6.1	3.0	0.0
-5°	70.7	32.0	16.0	11.0	6.1	3.0	0.0
-7.5°	69.5	31.6	15.9	11.0	6.0	3.0	0.0
-10°	67.9	31.0	15.8	10.9	6.0	3.0	0.0
-12.5°	65.9	30.4	15.6	10.7	6.0	2.9	0.0
-15°	63.4	29.5	15.4	10.6	5.9	2.9	0.0
-17.5°	60.4	28.5	15.2	10.4	5.8	2.9	0.0
-20°	57.1	27.3	14.9	10.2	5.7	2.8	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	53.3	26.0	14.6	10.0	5.6	2.8	0.0
-25°	49.1	24.6	14.2	9.7	5.5	2.7	0.0
-27.5°	44.4	23.0	13.8	9.4	5.4	2.7	0.0
-30°	39.4	21.3	13.4	9.1	5.3	2.6	0.0
-32.5°	34.0	19.5	12.9	8.7	5.1	2.5	0.0
-35°	30.6	17.5	12.5	8.4	5.0	2.5	0.0
-37.5°	28.1	15.9	11.9	8.0	4.8	2.4	0.0
-40°	25.4	15.2	11.4	7.6	4.6	2.3	0.0
-42.5°	22.6	14.5	10.8	7.1	4.5	2.2	0.0
-45°	19.6	13.7	10.2	6.7	4.3	2.1	0.0
-47.5°	16.6	12.9	9.6	6.2	4.1	2.0	0.0
-50°	15.3	12.1	8.9	5.9	3.9	1.9	0.0
-52.5°	14.2	11.2	8.2	5.6	3.7	1.8	0.0
-55°	13.2	10.4	7.5	5.2	3.5	1.7	0.0
-57.5°	12.1	9.5	6.8	4.9	3.2	1.6	0.0
-60°	11.0	8.5	6.1	4.5	3.0	1.5	0.0
-62.5°	9.8	7.6	5.6	4.2	2.8	1.4	0.0
-65°	8.7	6.6	5.1	3.8	2.5	1.3	0.0
-67.5°	7.5	5.8	4.6	3.5	2.3	1.1	0.0
-70°	6.3	5.2	4.1	3.1	2.0	1.0	0.0
-72.5°	5.4	4.5	3.6	2.7	1.8	0.9	0.0
-75°	4.7	3.9	3.1	2.3	1.6	0.8	0.0
-77.5°	3.9	3.2	2.6	1.9	1.3	0.6	0.0
-80°	3.1	2.6	2.1	1.6	1.0	0.5	0.0
-82.5°	2.3	1.9	1.6	1.2	0.8	0.4	0.0
-85°	1.6	1.3	1.0	0.8	0.5	0.3	0.0
-87.5°	0.8	0.6	0.5	0.4	0.3	0.1	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

