

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: P701334 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-40-70-5S-VHE-S**

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701334 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-5)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320L-40-70-5S-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 5S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

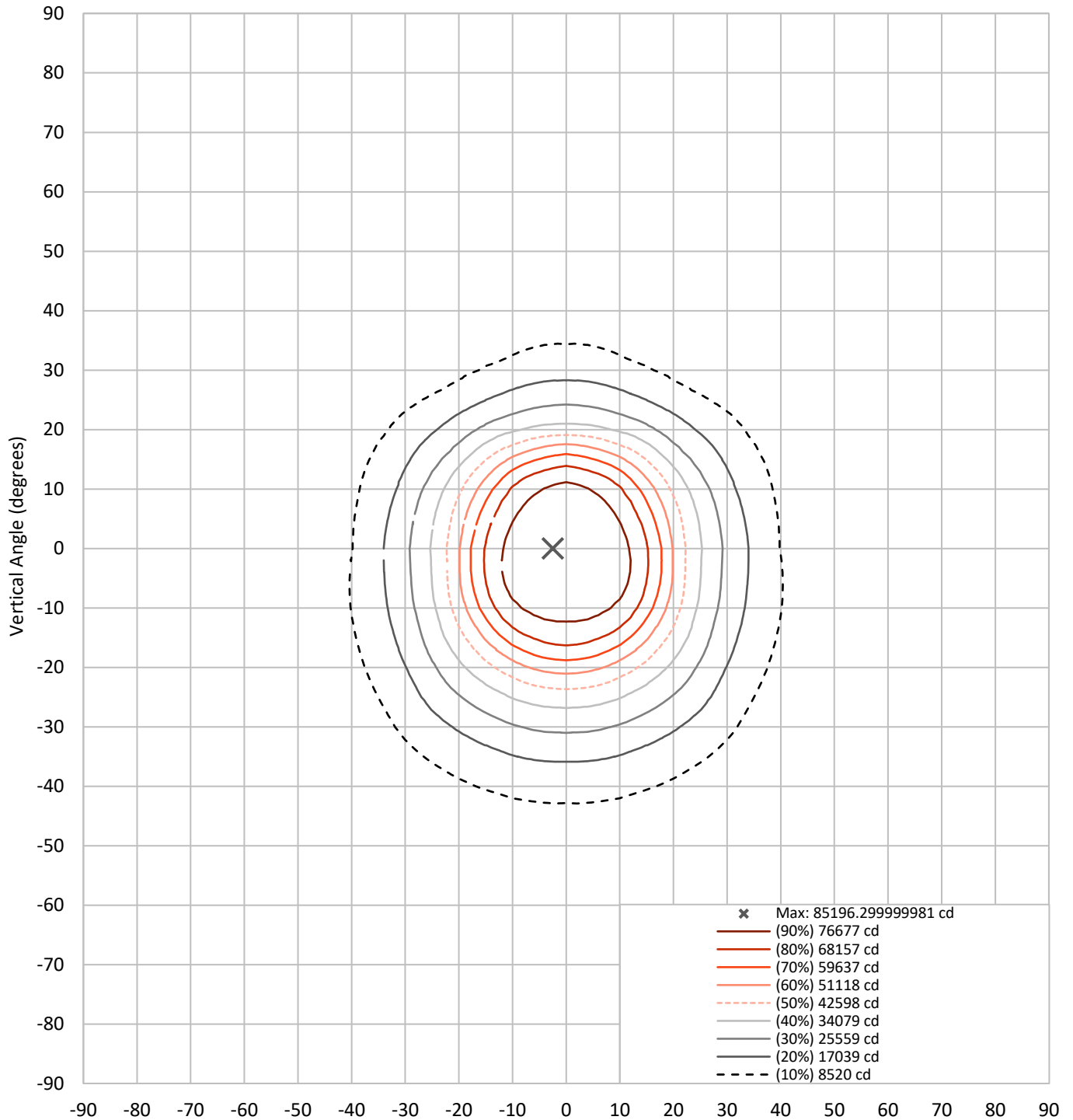
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	55474.3 lumens	Max Intensity:	85196.3 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	161.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	44.5°H x 42.5°V	Field Angle (10%):	79.6°H x 77.3°V
Beam Lumens:	30460.6 lumens	Field Lumens:	50974.1 lumens
Beam Efficiency:	54.9%	Field Efficiency:	91.9%

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





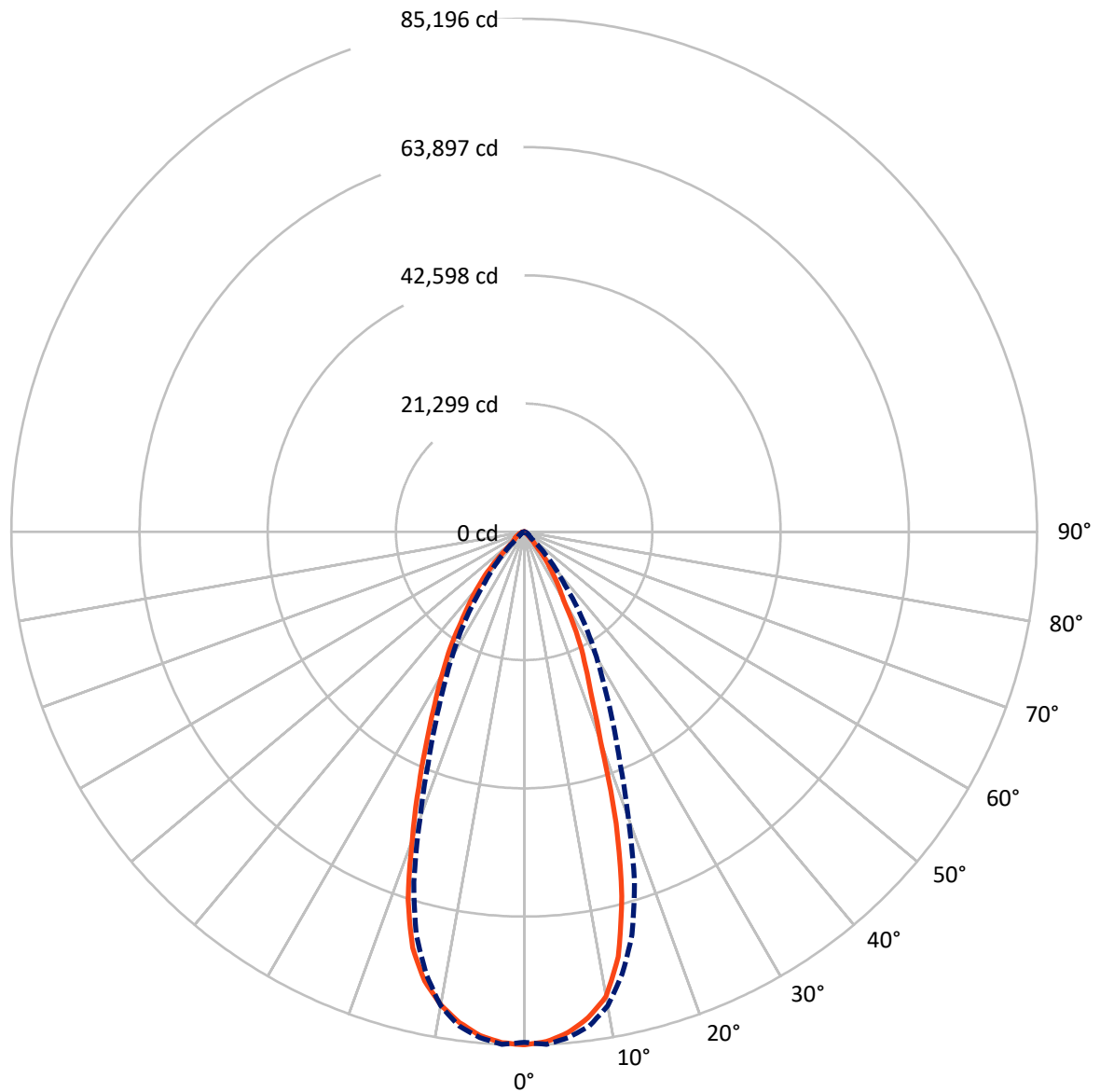
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Lumen Table

90																
80	0.2	0.8		1.4		1.9		2.2		1.9		1.4		0.8		0.2
70																
60	0.2	0.1	0.2	0.3	0.4	0.4	0.5	0.6	0.6	0.5	0.4	0.4	0.3	0.2	0.1	0.2
50		0.3	0.5	0.8	0.8	0.6	0.7	0.8	0.8	0.7	0.6	0.8	0.8	0.5	0.3	
40	0.6	0.8	1.6	3.3	6.0	12.2	26.9	36.3	36.3	26.9	12.2	6.0	3.3	1.6	0.8	0.6
30		1.7	5.5	11.3	28.5	84.7	156.8	231.1	231.1	156.8	84.7	28.5	11.3	5.5	1.7	
20	1.4	2.9	9.6	24.4	117.5	277.6	510.4	700.7	700.7	510.4	277.6	117.5	24.4	9.6	2.9	1.4
10		4.0	12.8	55.2	256.5	634.1	1233.7	1763.2	1763.2	1233.7	634.1	256.5	55.2	12.8	4.0	
0	2.0	4.9	15.1	83.8	361.1	920.8	1847.2	2450.4	2450.4	1847.2	920.8	361.1	83.8	15.1	4.9	2.0
-10		5.5	16.8	89.3	389.1	965.6	1959.7	2488.7	2488.7	1959.7	965.6	389.1	89.3	16.8	5.5	
-20	2.4	5.6	17.7	73.7	331.3	806.9	1520.1	2052.5	2052.5	1520.1	806.9	331.3	73.7	17.7	5.6	2.4
-30		5.4	17.7	45.7	214.8	534.3	888.5	1151.7	1151.7	888.5	534.3	214.8	45.7	17.7	5.4	
-40	2.4	4.8	15.5	32.9	87.4	259.9	437.3	555.6	555.6	437.3	259.9	87.4	32.9	15.5	4.8	2.4
-50		4.0	11.5	24.9	42.2	69.0	129.0	180.9	180.9	129.0	69.0	42.2	24.9	11.5	4.0	
-60	2.2	3.3	7.6	15.6	27.6	38.7	47.6	54.4	54.4	47.6	38.7	27.6	15.6	7.6	3.3	2.2
-70		2.6	5.1	8.8	14.3	19.6	24.9	28.7	28.7	24.9	19.6	14.3	8.8	5.1	2.6	
-80																
-90	1.6	9.7		21.5		33.7		41.3		33.7		21.5		9.7		1.6

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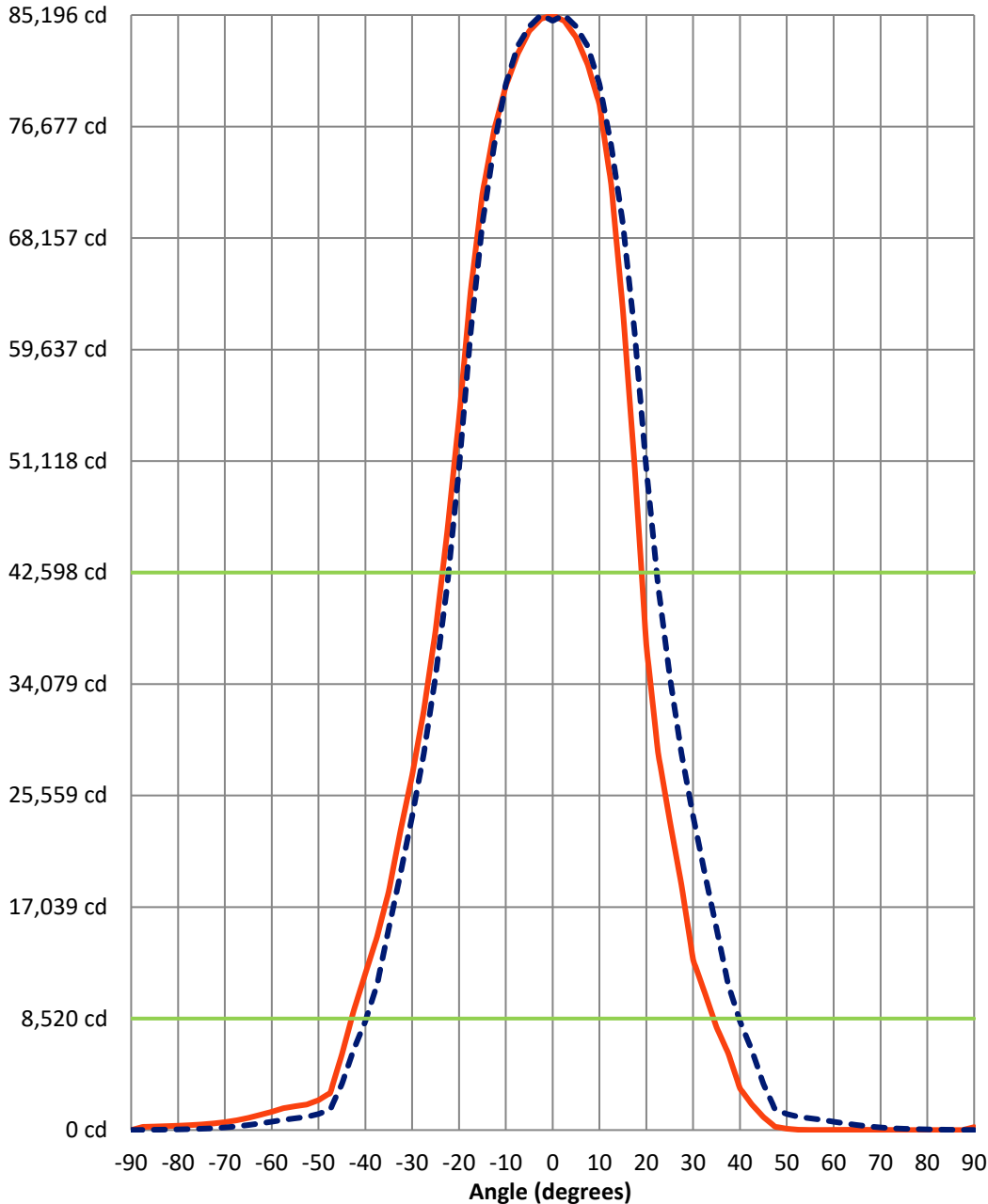
Luminous Intensity Polar Plot



— Vertical Distribution Through -2.5-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 44.5°
 V Angle: 42.5°
 Lumens: 30460.6
 Efficiency: 54.9%

Field:
 H Angle: 79.6°
 V Angle: 77.3°
 Lumens: 50974.1
 Efficiency: 91.9%

Spill:
 Lumens: 4500.2
 Efficiency: 8.1%

— Vertical Distribution through -2.5-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°	7.4	14.4	21.4	35.4	49.5	62.6	75.7	86.4	97.1	104.8	112.5
87.5°	7.4	6.8	6.2	6.2	6.2	6.3	6.4	6.1	5.8	5.8	5.7
85°	7.4	7.0	6.4	6.4	6.5	6.6	6.7	6.5	6.3	6.1	5.9
82.5°	7.4	7.1	6.5	6.7	6.7	6.9	7.1	6.9	6.8	6.5	6.2
80°	7.4	7.3	6.7	6.9	7.0	7.2	7.4	7.3	7.2	6.9	6.6
77.5°	7.4	7.4	6.9	7.1	7.2	7.5	7.8	7.7	7.7	7.4	6.9
75°	7.4	7.6	7.1	7.3	7.5	8.0	8.2	8.1	8.1	7.7	7.3
72.5°	7.4	7.8	7.3	7.6	8.0	8.4	8.6	8.6	8.5	8.0	7.6
70°	7.4	7.9	7.6	7.8	8.4	8.9	9.0	9.1	8.8	8.4	8.2
67.5°	7.4	8.1	7.8	8.2	8.9	9.4	9.6	9.6	9.3	9.1	9.0
65°	7.4	8.2	8.0	8.6	9.4	9.9	10.2	10.2	10.2	9.9	9.9
62.5°	7.4	8.4	8.3	9.0	9.9	10.5	10.8	11.1	11.2	11.0	11.6
60°	7.4	8.6	8.5	9.4	10.3	11.0	11.4	12.1	12.2	13.3	13.5
57.5°	7.4	8.7	9.0	9.8	11.0	11.6	12.7	13.3	15.1	16.1	17.2
55°	7.4	8.9	9.4	10.2	11.7	12.2	14.2	14.7	18.7	20.0	22.1
52.5°	7.4	9.1	9.9	10.6	12.5	13.0	15.8	18.5	22.7	26.0	27.6
50°	7.4	9.2	10.4	10.9	13.4	14.8	17.5	22.6	27.6	32.4	35.6
47.5°	7.4	9.4	11.0	11.4	14.3	16.8	19.7	26.8	33.9	39.2	44.7
45°	7.4	9.6	11.6	12.1	15.2	18.8	23.4	31.0	40.2	47.9	54.2
42.5°	7.4	9.7	12.1	12.9	16.2	21.0	27.1	36.2	46.8	57.0	68.6
40°	7.4	9.9	12.8	14.0	17.6	23.2	31.0	42.1	54.1	66.3	84.6
37.5°	7.4	10.0	13.4	15.3	19.4	25.6	35.3	48.1	62.6	77.6	101.5
35°	7.4	10.2	14.1	16.7	21.2	28.6	39.5	54.2	71.4	92.9	121.0
32.5°	7.4	10.4	14.7	18.1	23.0	32.1	44.2	60.6	80.3	108.4	143.2
30°	7.4	10.5	15.4	19.5	24.8	35.4	49.6	67.4	89.5	124.2	165.0
27.5°	7.4	10.7	16.1	21.0	27.2	38.8	54.8	74.8	99.7	140.2	186.4
25°	7.4	10.8	16.8	22.4	29.7	42.1	60.0	81.9	111.6	157.4	207.4
22.5°	7.4	11.0	17.5	23.9	32.2	45.4	65.0	88.7	122.8	172.2	229.5
20°	7.4	11.1	18.2	25.4	34.6	49.1	69.8	95.1	133.3	186.2	248.0
17.5°	7.4	11.3	19.0	26.8	36.9	52.6	74.6	101.3	143.1	199.3	265.4
15°	7.4	11.4	19.7	28.3	39.1	55.9	79.2	107.2	152.1	211.6	282.0
12.5°	7.4	11.6	20.3	29.7	41.3	59.1	83.6	113.1	161.2	222.8	297.6
10°	7.4	11.7	21.0	31.1	43.4	62.1	87.7	118.6	170.3	236.1	314.0
7.5°	7.4	11.8	21.7	32.5	45.4	64.9	91.5	123.7	178.6	249.0	333.6
5°	7.4	11.9	22.3	33.8	47.4	67.6	95.1	128.5	186.2	261.0	352.1
2.5°	7.4	12.0	22.9	35.0	49.2	70.0	98.2	132.8	193.0	271.7	369.1
0°	7.4	12.1	23.4	36.2	50.9	72.3	101.1	136.6	198.8	281.2	384.3
-2.5°	7.4	12.6	24.4	37.8	53.3	75.6	105.4	142.2	205.6	289.2	392.2
-5°	7.4	13.0	25.4	39.3	55.5	78.7	109.4	147.2	211.4	295.6	398.0
-7.5°	7.4	13.5	26.3	40.7	57.6	81.5	113.0	151.7	216.1	300.5	401.7
-10°	7.4	13.9	27.1	42.1	59.6	84.1	116.1	155.5	219.7	303.8	403.6
-12.5°	7.4	14.3	27.9	43.3	61.4	86.4	118.9	158.8	222.1	305.5	406.4
-15°	7.4	14.7	28.7	44.5	63.0	88.4	121.2	161.5	223.5	306.0	407.8
-17.5°	7.4	15.1	29.4	45.5	64.5	90.2	123.1	163.7	223.8	304.7	406.1
-20°	7.4	15.4	30.0	46.5	65.8	91.6	124.8	165.7	223.0	301.6	401.1



REPORT NUMBER: P701334 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	7.4	15.7	30.6	47.4	66.9	92.6	126.5	167.0	221.0	296.6	393.0
-25°	7.4	16.0	31.1	48.1	67.8	93.9	127.7	167.7	217.9	289.8	386.0
-27.5°	7.4	16.3	31.5	48.7	68.6	95.2	128.5	167.8	213.6	285.1	380.9
-30°	7.4	16.6	31.9	49.3	69.2	96.1	128.7	167.3	211.7	281.4	372.8
-32.5°	7.4	16.8	32.1	49.7	70.3	96.7	128.5	166.9	211.6	275.8	361.7
-35°	7.4	17.0	32.4	50.0	71.3	97.0	128.5	166.3	210.4	268.2	347.5
-37.5°	7.4	17.2	32.5	50.2	72.1	97.3	128.5	165.3	208.1	258.7	334.6
-40°	7.4	17.3	32.6	50.3	72.7	98.1	128.1	163.6	204.9	252.9	322.1
-42.5°	7.4	17.4	32.6	50.4	73.2	98.5	127.4	161.2	201.6	248.1	307.5
-45°	7.4	17.5	32.5	50.7	73.6	98.8	126.3	158.9	198.0	242.0	292.2
-47.5°	7.4	17.6	32.4	50.8	73.8	98.8	124.7	157.0	193.6	234.6	283.7
-50°	7.4	17.6	32.2	50.8	73.7	98.5	124.2	154.6	188.0	227.9	273.5
-52.5°	7.4	17.6	31.9	50.8	73.3	98.0	123.5	151.6	183.2	220.0	261.3
-55°	7.4	17.6	31.5	50.5	72.8	97.1	122.4	148.3	178.5	210.9	249.0
-57.5°	7.4	17.5	31.1	50.1	72.0	96.0	121.1	146.6	173.2	203.7	235.6
-60°	7.4	17.4	30.6	49.6	70.9	94.5	119.4	144.3	167.9	196.6	222.8
-62.5°	7.4	17.3	30.2	49.0	69.9	92.8	117.2	141.4	164.4	188.5	212.7
-65°	7.4	17.1	29.7	48.2	68.7	90.8	114.6	138.1	160.5	182.1	201.8
-67.5°	7.4	17.0	29.2	47.2	67.3	88.7	111.7	134.1	156.2	176.1	193.4
-70°	7.4	16.8	28.5	46.2	65.7	86.3	108.5	129.8	150.9	169.6	185.8
-72.5°	7.4	16.6	27.8	45.2	64.0	83.6	104.7	125.1	145.2	162.3	177.7
-75°	7.4	16.3	27.1	44.1	62.1	80.6	100.5	119.7	139.1	154.7	169.2
-77.5°	7.4	16.0	26.2	42.9	60.3	77.4	96.0	113.7	131.9	146.6	160.4
-80°	7.4	15.7	25.3	41.6	58.4	74.5	91.1	107.5	124.2	137.3	150.2
-82.5°	7.4	15.4	24.4	40.2	56.3	71.8	87.4	101.6	116.3	127.8	139.2
-85°	7.4	15.1	23.4	38.7	54.2	68.9	83.7	96.7	110.0	119.7	129.2
-87.5°	7.4	14.8	22.4	37.1	51.9	65.8	79.8	91.7	103.7	112.3	120.9
-90°	7.4	6.7	6.0	6.0	6.0	6.0	6.0	5.7	5.4	5.4	5.4



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 CATALOG NUMBER: EPH-LS-08-0320L-40-70-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	117.2	121.9	126.3	130.6	136.0	141.3	147.0	152.7	158.7	164.7	170.4
87.5°	5.4	5.1	5.1	5.1	4.8	4.5	4.2	4.0	3.7	3.3	3.2
85°	5.7	5.4	5.4	5.4	5.1	4.9	4.6	4.3	4.0	3.7	3.7
82.5°	6.1	6.1	5.8	5.4	5.3	5.4	5.1	4.7	4.5	4.2	4.1
80°	6.5	6.7	6.2	5.7	5.5	5.4	5.1	4.8	4.7	4.7	4.5
77.5°	6.8	6.7	6.4	6.0	5.8	5.6	5.4	5.2	5.0	4.8	4.7
75°	7.0	6.8	6.6	6.2	5.9	5.9	5.8	5.7	5.5	5.5	5.5
72.5°	7.4	7.2	6.9	6.3	6.2	6.3	6.3	6.1	6.3	6.6	6.6
70°	8.0	7.7	7.3	6.8	6.6	6.8	7.1	7.6	8.1	8.2	8.9
67.5°	8.7	8.4	7.7	7.4	7.2	7.6	8.0	9.7	11.3	12.1	13.0
65°	9.6	9.1	8.5	8.4	8.0	9.7	11.0	12.8	16.0	17.5	17.4
62.5°	10.8	10.9	10.0	10.3	11.6	13.1	15.5	19.2	22.9	24.3	23.1
60°	13.7	13.3	13.3	14.2	15.7	17.5	21.2	25.8	30.0	32.3	28.9
57.5°	17.5	17.4	18.4	19.0	21.0	21.6	26.5	32.2	35.8	38.6	34.0
55°	22.9	23.2	25.1	25.7	27.2	27.1	31.4	36.7	40.5	41.7	37.0
52.5°	30.5	30.8	34.3	34.8	34.3	34.8	36.4	42.1	45.2	45.3	41.1
50°	38.7	43.0	45.2	46.6	44.0	45.6	44.1	50.5	55.2	54.7	56.3
47.5°	50.9	56.6	59.8	62.1	60.2	65.2	64.1	73.8	77.1	95.5	98.4
45°	65.3	74.5	78.7	84.0	89.7	95.8	111.3	111.4	154.9	172.0	217.2
42.5°	81.5	95.3	107.1	109.3	138.1	154.9	176.2	219.7	262.2	315.6	335.9
40°	103.1	118.4	142.5	169.7	201.8	238.3	277.8	330.7	386.6	414.2	417.6
37.5°	126.9	155.7	189.3	238.7	287.9	335.9	386.0	437.8	478.0	488.2	525.6
35°	152.6	194.7	257.5	314.2	371.5	437.8	482.3	530.0	554.1	596.4	668.5
32.5°	184.8	234.7	312.8	386.6	450.2	522.3	565.0	601.5	658.2	731.5	890.7
30°	218.5	279.9	358.8	444.0	522.4	582.9	631.5	677.3	766.1	943.1	1489.2
27.5°	246.5	318.7	401.7	496.7	586.1	641.2	696.3	776.3	934.9	1299.8	2335.6
25°	271.6	350.0	443.7	554.0	641.5	702.2	774.0	886.9	1135.7	2126.1	3453.4
22.5°	296.1	380.9	491.7	614.2	697.7	762.2	870.8	1074.8	1596.2	2988.5	4583.8
20°	321.5	420.4	543.8	670.2	751.6	815.4	955.5	1257.3	2324.5	3916.8	5581.2
17.5°	348.0	460.2	594.5	710.0	786.1	871.1	1044.8	1407.0	2932.6	4783.8	6646.9
15°	373.9	498.4	637.8	744.3	817.7	931.2	1164.6	1848.4	3575.6	5752.0	7786.5
12.5°	398.8	533.1	671.5	771.2	848.9	987.3	1263.0	2334.7	4348.7	6651.0	8777.2
10°	422.2	564.2	699.8	796.7	882.8	1047.0	1357.8	2810.9	5025.4	7235.2	9388.6
7.5°	446.3	590.0	723.6	820.9	915.5	1103.4	1462.2	3180.7	5530.7	7684.5	9861.0
5°	468.1	610.0	746.6	848.1	949.2	1153.4	1546.7	3463.5	5909.9	8055.8	10281.8
2.5°	487.2	625.6	766.2	873.7	982.0	1195.2	1571.0	3542.1	6088.0	8255.5	10695.6
0°	503.5	637.4	782.0	896.5	1011.6	1229.2	1577.4	3528.4	6132.1	8316.1	11098.6
-2.5°	512.8	652.6	810.3	929.2	1038.1	1256.7	1610.8	3533.6	6169.4	8740.0	11616.8
-5°	519.2	664.1	833.5	958.1	1061.6	1276.0	1629.4	3453.3	6119.0	8963.1	11768.3
-7.5°	522.9	671.3	850.6	982.2	1082.9	1290.0	1639.8	3322.6	6121.8	8973.2	11577.8
-10°	524.8	678.1	858.6	995.7	1101.1	1296.7	1634.7	3098.3	5878.8	8730.4	11263.9
-12.5°	531.1	684.4	861.5	1005.8	1115.7	1298.3	1642.2	2878.7	5422.9	8288.2	10815.3
-15°	533.6	686.1	859.9	1014.0	1139.3	1314.1	1642.5	2537.8	4831.1	7727.1	10251.1
-17.5°	531.9	683.0	855.0	1026.0	1161.0	1315.4	1605.2	2090.5	4155.2	6928.9	9508.2
-20°	526.1	675.9	844.3	1031.9	1173.4	1326.3	1594.3	2017.8	3492.7	5930.9	8606.2



REPORT NUMBER: P701334 (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°	517.7	664.9	829.0	1018.9	1187.6	1350.1	1579.3	1921.2	2713.7	4790.8	7489.5
-25°	507.7	652.8	812.6	1003.9	1194.2	1365.4	1533.0	1792.2	2256.3	3815.4	6107.4
-27.5°	497.2	635.5	795.1	979.0	1190.2	1358.2	1505.7	1720.7	2048.7	2731.6	4667.4
-30°	483.8	614.9	769.3	946.7	1155.0	1335.7	1489.1	1628.3	1852.3	2262.6	3424.6
-32.5°	467.6	590.6	740.6	910.0	1101.8	1308.9	1450.7	1571.6	1742.3	1993.7	2470.5
-35°	449.2	569.2	708.8	863.6	1038.8	1241.4	1393.0	1520.9	1636.1	1829.7	2134.6
-37.5°	430.5	542.8	667.8	814.6	981.4	1146.8	1325.6	1453.1	1569.2	1690.7	1907.9
-40°	408.6	510.0	627.0	762.8	904.2	1054.3	1220.2	1379.9	1494.6	1621.2	1751.4
-42.5°	384.6	478.8	583.4	701.1	828.0	963.0	1110.2	1270.2	1423.9	1545.0	1664.7
-45°	365.3	445.1	537.0	641.8	751.0	871.1	1005.3	1145.5	1308.7	1465.5	1576.2
-47.5°	342.0	411.5	496.2	579.3	678.2	785.3	900.0	1032.7	1169.6	1324.0	1475.4
-50°	319.6	383.3	448.5	523.5	607.4	701.5	803.8	920.6	1047.2	1173.7	1311.0
-52.5°	304.3	353.1	408.6	467.7	541.1	621.8	712.4	811.6	922.5	1033.0	1152.1
-55°	287.5	329.7	369.6	419.8	477.4	547.4	626.0	712.7	797.4	898.2	999.4
-57.5°	271.2	306.2	338.2	376.7	424.8	476.3	547.7	619.9	693.4	771.5	856.9
-60°	254.6	283.3	311.3	342.4	377.5	423.0	472.7	533.0	593.1	655.5	731.1
-62.5°	238.0	261.3	285.4	312.2	342.1	372.8	413.4	457.3	499.5	556.3	616.5
-65°	224.7	240.7	260.6	284.2	308.3	336.4	364.7	392.2	429.2	472.3	515.9
-67.5°	210.4	225.4	240.0	256.6	278.3	301.5	324.9	349.6	374.7	404.3	436.1
-70°	199.9	210.5	223.5	237.2	251.5	268.3	289.1	309.6	330.7	355.4	380.8
-72.5°	190.0	199.8	209.5	219.1	232.0	245.9	259.7	273.5	291.0	312.0	332.3
-75°	179.9	188.9	197.8	206.5	216.2	226.6	237.4	249.8	263.5	278.1	292.2
-77.5°	169.6	177.6	185.7	193.7	202.6	211.7	221.2	230.7	241.4	252.7	263.7
-80°	158.5	166.0	173.2	180.4	188.4	196.5	205.0	213.4	222.9	232.7	241.8
-82.5°	146.3	152.9	159.7	166.4	173.7	181.0	188.5	196.0	204.4	212.8	220.6
-85°	134.6	139.7	145.7	151.7	158.4	165.0	171.7	178.3	186.0	193.7	200.4
-87.5°	126.0	130.9	135.7	140.5	146.3	152.0	157.8	163.5	170.2	177.0	182.8
-90°	5.1	4.7	4.7	4.7	4.4	4.0	4.0	4.0	3.7	3.3	3.0



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	176.1	179.8	183.4	186.5	189.5	193.5	197.5	202.9	208.2	213.6	218.9
87.5°	3.2	3.0	2.7	2.7	2.6	2.6	2.7	2.3	2.0	2.0	2.0
85°	3.7	3.7	3.7	3.4	3.2	3.2	3.2	3.2	3.2	3.0	2.7
82.5°	4.0	4.0	4.0	3.7	3.3	3.3	3.3	3.3	3.3	3.0	2.7
80°	4.2	4.1	4.0	3.9	3.8	3.6	3.3	3.1	2.8	2.7	2.7
77.5°	4.8	4.6	4.3	4.2	4.0	3.7	3.4	3.0	2.7	2.7	2.7
75°	5.4	5.2	5.1	4.8	4.4	4.3	4.2	4.0	3.8	3.8	3.9
72.5°	6.5	6.4	6.4	6.5	6.5	6.7	7.0	7.3	7.6	8.1	8.7
70°	9.7	10.3	10.6	10.8	10.8	10.6	10.6	10.8	11.1	11.5	11.7
67.5°	14.1	15.2	15.7	15.9	14.9	14.3	14.4	14.7	15.2	16.1	17.5
65°	18.4	18.1	17.6	17.2	17.4	17.5	17.4	17.6	18.5	19.9	21.6
62.5°	21.6	18.7	17.0	16.1	16.7	17.7	17.0	16.5	17.2	18.1	18.9
60°	24.7	19.3	15.5	14.2	14.0	14.4	13.3	12.3	12.6	12.8	13.3
57.5°	27.6	20.6	14.3	12.2	10.2	9.2	8.9	8.6	8.3	8.1	8.2
55°	30.3	22.5	14.1	12.5	11.1	10.7	9.8	9.4	9.0	8.8	9.0
52.5°	33.5	28.9	23.0	21.4	24.1	24.3	21.6	25.6	28.6	30.1	30.6
50°	54.9	49.1	59.0	58.1	69.7	77.8	74.9	84.0	97.5	106.0	109.6
47.5°	120.6	120.8	140.3	157.6	171.9	190.6	204.9	218.8	238.1	250.1	255.5
45°	228.9	248.4	268.8	298.4	326.8	361.3	403.0	435.7	567.1	697.9	816.8
42.5°	350.4	371.8	401.6	466.1	542.7	720.2	1037.7	1214.8	1436.0	1676.7	1769.0
40°	451.5	482.5	564.3	746.0	1188.5	1609.8	2072.7	2464.0	2810.5	3009.8	3176.3
37.5°	576.4	650.5	1023.0	1537.2	2087.4	2615.5	3092.1	3505.7	3864.6	4155.8	4444.0
35°	758.4	1250.3	1800.6	2469.3	3054.1	3543.3	4037.2	4511.1	4918.2	5353.1	5999.2
32.5°	1437.8	2080.7	2788.5	3387.9	3959.5	4576.7	5095.6	5853.9	6447.8	7240.7	8452.3
30°	2307.7	3114.7	3756.5	4356.0	5088.9	5919.5	6786.0	7945.8	9157.7	10422.0	11723.1
27.5°	3424.7	4239.8	4916.4	5716.0	6683.8	7789.1	9445.7	11080.5	12818.6	14399.6	15601.2
25°	4771.0	5634.2	6790.8	7951.1	9336.0	11224.8	13086.0	15089.0	16831.6	18383.2	20120.0
22.5°	6032.8	7447.8	8975.1	10726.8	12982.0	15112.3	17413.4	19440.5	21627.4	23838.8	25549.0
20°	7098.1	8941.5	11132.3	13657.5	16157.3	18570.5	21248.4	24479.5	27735.2	30643.9	32754.6
17.5°	8535.1	10869.6	13596.7	16598.2	19289.5	22280.0	26007.0	30205.2	34767.3	38803.8	42004.4
15°	10105.1	12831.2	15914.8	19059.8	22464.6	26471.8	31264.2	36625.8	42206.2	47866.2	53139.3
12.5°	11172.5	14366.3	17733.7	21473.2	25719.8	31092.6	36911.9	42855.5	49232.7	56275.2	62392.0
10°	12085.0	15628.2	19690.7	24040.5	28920.2	34695.8	40710.3	47929.5	55889.6	62824.8	69376.5
7.5°	12987.6	17151.0	21394.7	25923.7	31285.0	37558.1	44676.2	52440.3	60541.2	68079.2	73437.1
5°	14055.5	18375.0	22618.4	27402.5	33016.9	39542.2	47050.1	55965.8	64501.0	71430.0	76262.5
2.5°	14938.6	19109.2	23454.3	28189.4	33959.6	40772.4	48921.1	58829.1	67587.0	74065.8	78438.6
0°	15388.2	19579.4	23980.2	28792.0	34707.2	41658.8	50549.3	60957.7	69235.0	75220.1	79903.1
-2.5°	15443.0	19429.9	23749.6	28495.5	34276.6	41366.1	50480.4	61011.7	69663.8	75884.6	80504.9
-5°	15283.5	19233.0	23544.4	28293.1	33996.2	41380.7	50532.0	60658.7	69019.2	75462.7	79814.0
-7.5°	14898.6	18871.4	23190.7	27869.6	33482.9	40644.8	49180.1	58359.2	66958.7	73920.9	77935.0
-10°	14334.6	18238.2	22490.9	26969.9	32263.6	38885.3	46518.5	54922.0	63612.0	70268.8	74897.8
-12.5°	13621.4	17315.8	21381.1	25615.6	30613.6	36782.9	43587.1	50623.8	57908.3	65497.4	70318.9
-15°	12802.7	16178.5	19983.9	24241.1	29182.4	34323.8	39728.6	45461.6	52120.8	58328.5	63940.7
-17.5°	12025.8	14933.2	18483.9	22631.7	26839.4	31306.8	35938.8	40619.4	45959.4	50832.4	55191.6
-20°	11049.4	13525.0	16796.5	20482.1	24392.0	28262.8	32241.5	36033.6	39910.3	43876.6	47338.7



REPORT NUMBER: P701334 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	9898.6	12306.2	15035.6	18244.7	21998.4	25443.5	28630.1	31593.6	34700.9	37445.4	40294.5
-25°	8645.0	10959.8	13468.1	16393.5	19275.6	22398.7	25043.5	27563.7	29973.9	32129.0	34344.5
-27.5°	7105.6	9549.3	12021.8	14363.1	16741.4	18983.8	21449.7	23774.9	25785.0	27562.8	29318.8
-30°	5371.3	7965.0	10303.9	12312.3	14197.8	16068.1	17955.9	19907.1	21809.9	23428.8	24867.1
-32.5°	3963.1	6126.8	8288.6	10256.8	11907.0	13452.8	14921.0	16451.8	17782.7	19149.2	20479.2
-35°	2622.0	4151.4	5946.0	7946.9	9665.6	10966.0	12297.2	13517.6	14520.9	15580.4	16584.5
-37.5°	2206.6	2613.6	3814.2	5438.7	7030.4	8525.8	9853.3	10914.4	11837.8	12684.1	13551.2
-40°	1946.5	2178.7	2520.2	3110.4	4449.1	5764.6	7132.3	8260.2	9243.9	10055.1	10853.5
-42.5°	1775.8	1935.1	2105.2	2337.7	2566.8	3211.1	4333.8	5307.3	6229.9	7143.9	7966.5
-45°	1687.3	1776.7	1874.0	2000.4	2098.4	2273.0	2468.0	2651.2	3385.6	4179.2	4843.4
-47.5°	1581.2	1676.6	1749.3	1808.8	1856.5	1933.2	2014.2	2120.2	2290.2	2490.7	2643.7
-50°	1445.6	1561.3	1633.9	1693.6	1727.8	1757.4	1786.6	1853.1	1945.2	2054.5	2141.2
-52.5°	1270.2	1384.7	1487.5	1565.1	1602.9	1639.8	1676.6	1722.2	1774.6	1837.7	1882.9
-55°	1104.9	1200.6	1289.5	1361.9	1427.2	1486.6	1543.8	1592.1	1648.6	1708.7	1750.9
-57.5°	948.0	1025.3	1098.2	1160.9	1217.5	1267.4	1325.9	1389.4	1461.7	1530.6	1578.9
-60°	801.4	862.8	923.5	974.5	1020.4	1061.4	1115.5	1168.7	1232.1	1288.5	1329.6
-62.5°	670.3	724.0	768.8	807.3	841.9	876.2	921.7	966.2	1018.3	1063.4	1097.5
-65°	556.9	601.7	633.3	661.8	686.9	716.1	751.3	787.0	828.0	863.0	891.0
-67.5°	469.5	499.8	519.7	537.3	558.1	581.4	608.0	636.5	668.3	694.8	716.2
-70°	403.4	422.3	434.4	447.5	462.7	478.8	496.8	518.3	542.5	563.1	580.9
-72.5°	351.1	365.5	375.5	385.7	394.8	405.8	417.9	434.0	451.9	468.0	483.1
-75°	305.8	316.1	325.4	334.2	342.1	351.5	361.1	374.7	389.4	402.7	415.2
-77.5°	275.3	283.3	289.5	295.4	301.1	308.9	316.9	327.8	339.2	350.2	360.9
-80°	250.9	257.0	262.3	266.6	270.6	277.1	284.0	292.9	302.0	311.5	321.0
-82.5°	228.3	233.6	238.6	242.7	246.5	252.5	258.6	266.6	274.7	282.6	290.3
-85°	207.1	212.0	216.7	220.6	224.5	229.3	234.1	241.0	247.9	255.1	262.2
-87.5°	188.7	193.3	197.9	201.0	204.0	208.3	212.6	218.5	224.4	230.6	236.7
-90°	2.7	2.7	2.7	2.4	2.0	2.0	2.0	1.7	1.3	1.3	1.3



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 CATALOG NUMBER: EPH-LS-08-0320L-40-70-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	221.6	224.3	225.7	227.0	225.7	224.3	221.6	218.9	213.6	208.2	202.9
87.5°	1.6	1.3	1.3	1.3	1.3	1.3	1.6	2.0	2.0	2.0	2.3
85°	2.3	2.0	2.3	2.7	2.3	2.0	2.3	2.7	3.0	3.2	3.2
82.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.0	3.3	3.3
80°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.8	3.1
77.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.0
75°	3.6	3.3	3.3	3.3	3.3	3.3	3.6	3.9	3.8	3.8	4.0
72.5°	9.0	9.2	9.6	10.0	9.6	9.2	9.0	8.7	8.1	7.6	7.3
70°	11.9	12.0	12.1	12.1	12.1	12.0	11.9	11.7	11.5	11.1	10.8
67.5°	18.2	18.5	19.3	20.1	19.3	18.5	18.2	17.5	16.1	15.2	14.7
65°	22.8	23.8	24.1	24.1	24.1	23.8	22.8	21.6	19.9	18.5	17.6
62.5°	19.7	20.7	20.8	20.8	20.8	20.7	19.7	18.9	18.1	17.2	16.5
60°	13.8	14.2	14.4	14.7	14.4	14.2	13.8	13.3	12.8	12.6	12.3
57.5°	8.4	8.8	8.8	8.7	8.8	8.8	8.4	8.2	8.1	8.3	8.6
55°	9.2	9.3	9.1	8.7	9.1	9.3	9.2	9.0	8.8	9.0	9.4
52.5°	29.8	28.3	26.8	25.4	26.8	28.3	29.8	30.6	30.1	28.6	25.6
50°	108.5	106.6	104.0	101.1	104.0	106.6	108.5	109.6	106.0	97.5	84.0
47.5°	260.3	260.8	258.3	253.7	258.3	260.8	260.3	255.5	250.1	238.1	218.8
45°	920.5	970.6	997.6	1016.3	997.6	970.6	920.5	816.8	697.9	567.1	435.7
42.5°	1849.8	1920.1	1973.5	1984.5	1973.5	1920.1	1849.8	1769.0	1676.7	1436.0	1214.8
40°	3373.8	3385.6	3189.8	2894.3	3189.8	3385.6	3373.8	3176.3	3009.8	2810.5	2464.0
37.5°	4787.4	5281.4	5855.3	6148.2	5855.3	5281.4	4787.4	4444.0	4155.8	3864.6	3505.7
35°	6871.1	7614.2	7855.3	7861.5	7855.3	7614.2	6871.1	5999.2	5353.1	4918.2	4511.1
32.5°	9545.1	10149.2	10471.8	10384.2	10471.8	10149.2	9545.1	8452.3	7240.7	6447.8	5853.9
30°	12481.3	13006.9	13011.2	12835.3	13011.2	13006.9	12481.3	11723.1	10422.0	9157.7	7945.8
27.5°	16844.9	17955.6	18737.4	18948.1	18737.4	17955.6	16844.9	15601.2	14399.6	12818.6	11080.5
25°	21684.9	22905.5	23656.0	23929.3	23656.0	22905.5	21684.9	20120.0	18383.2	16831.6	15089.0
22.5°	27140.7	28327.3	28869.0	29152.2	28869.0	28327.3	27140.7	25549.0	23838.8	21627.4	19440.5
20°	34766.6	36453.9	37090.0	37361.8	37090.0	36453.9	34766.6	32754.6	30643.9	27735.2	24479.5
17.5°	45330.0	48662.4	50746.0	51816.1	50746.0	48662.4	45330.0	42004.4	38803.8	34767.3	30205.2
15°	57041.9	60425.0	62649.9	63983.9	62649.9	60425.0	57041.9	53139.3	47866.2	42206.2	36625.8
12.5°	67089.3	70105.2	72254.1	73531.6	72254.1	70105.2	67089.3	62392.0	56275.2	49232.7	42855.5
10°	73535.1	76121.5	78350.9	79439.8	78350.9	76121.5	73535.1	69376.5	62824.8	55889.6	47929.5
7.5°	77178.1	80185.4	81393.9	82138.6	81393.9	80185.4	77178.1	73437.1	68079.2	60541.2	52440.3
5°	80001.4	82378.0	83493.5	84038.0	83493.5	82378.0	80001.4	76262.5	71430.0	64501.0	55965.8
2.5°	81886.2	83949.3	84738.3	85177.5	84738.3	83949.3	81886.2	78438.6	74065.8	67587.0	58829.1
0°	82790.7	84311.8	85196.3	84765.1	85196.3	84311.8	82790.7	79903.1	75220.1	69235.0	60957.7
-2.5°	82797.0	84242.9	84900.4	84580.3	84900.4	84242.9	82797.0	80504.9	75884.6	69663.8	61011.7
-5°	82088.6	83167.8	83968.5	83712.0	83968.5	83167.8	82088.6	79814.0	75462.7	69019.2	60658.7
-7.5°	80178.4	81612.5	82199.1	82227.6	82199.1	81612.5	80178.4	77935.0	73920.9	66958.7	58359.2
-10°	77550.5	79140.6	79765.0	79828.7	79765.0	79140.6	77550.5	74897.8	70268.8	63612.0	54922.0
-12.5°	73644.7	75510.0	76408.7	76568.9	76408.7	75510.0	73644.7	70318.9	65497.4	57908.3	50623.8
-15°	67581.6	70095.7	71514.9	72012.8	71514.9	70095.7	67581.6	63940.7	58328.5	52120.8	45461.6
-17.5°	59339.1	62342.9	64112.5	64736.5	64112.5	62342.9	59339.1	55191.6	50832.4	45959.4	40619.4
-20°	50741.4	52968.3	54332.4	54894.5	54332.4	52968.3	50741.4	47338.7	43876.6	39910.3	36033.6



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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°	42920.9	44716.4	45729.9	46180.1	45729.9	44716.4	42920.9	40294.5	37445.4	34700.9	31593.6
-25°	36138.1	37650.3	38170.1	38463.2	38170.1	37650.3	36138.1	34344.5	32129.0	29973.9	27563.7
-27.5°	30596.1	31795.8	32075.7	32334.4	32075.7	31795.8	30596.1	29318.8	27562.8	25785.0	23774.9
-30°	25926.3	26970.3	27112.9	27399.4	27112.9	26970.3	25926.3	24867.1	23428.8	21809.9	19907.1
-32.5°	21559.1	22488.7	22844.8	22899.6	22844.8	22488.7	21559.1	20479.2	19149.2	17782.7	16451.8
-35°	17377.2	17989.9	18232.3	18247.1	18232.3	17989.9	17377.2	16584.5	15580.4	14520.9	13517.6
-37.5°	14089.2	14479.8	14760.5	14683.2	14760.5	14479.8	14089.2	13551.2	12684.1	11837.8	10914.4
-40°	11300.9	11693.8	11950.5	11888.0	11950.5	11693.8	11300.9	10853.5	10055.1	9243.9	8260.2
-42.5°	8420.2	8852.3	9094.9	9027.8	9094.9	8852.3	8420.2	7966.5	7143.9	6229.9	5307.3
-45°	5222.0	5602.9	5781.6	5672.8	5781.6	5602.9	5222.0	4843.4	4179.2	3385.6	2651.2
-47.5°	2724.3	2811.0	2838.7	2799.9	2838.7	2811.0	2724.3	2643.7	2490.7	2290.2	2120.2
-50°	2208.9	2263.2	2286.6	2279.7	2286.6	2263.2	2208.9	2141.2	2054.5	1945.2	1853.1
-52.5°	1918.5	1943.6	1951.9	1947.0	1951.9	1943.6	1918.5	1882.9	1837.7	1774.6	1722.2
-55°	1786.6	1811.5	1820.1	1817.1	1820.1	1811.5	1786.6	1750.9	1708.7	1648.6	1592.1
-57.5°	1619.1	1649.7	1668.7	1678.5	1668.7	1649.7	1619.1	1578.9	1530.6	1461.7	1389.4
-60°	1362.7	1387.2	1394.2	1390.6	1394.2	1387.2	1362.7	1329.6	1288.5	1232.1	1168.7
-62.5°	1124.3	1144.5	1159.5	1169.6	1159.5	1144.5	1124.3	1097.5	1063.4	1018.3	966.2
-65°	911.5	926.1	929.1	926.6	929.1	926.1	911.5	891.0	863.0	828.0	787.0
-67.5°	731.3	742.1	743.6	741.2	743.6	742.1	731.3	716.2	694.8	668.3	636.5
-70°	592.9	602.0	603.2	601.9	603.2	602.0	592.9	580.9	563.1	542.5	518.3
-72.5°	491.8	498.4	503.5	507.5	503.5	498.4	491.8	483.1	468.0	451.9	434.0
-75°	421.5	426.3	427.5	427.8	427.5	426.3	421.5	415.2	402.7	389.4	374.7
-77.5°	366.5	371.3	374.7	377.6	374.7	371.3	366.5	360.9	350.2	339.2	327.8
-80°	325.2	328.8	331.6	334.1	331.6	328.8	325.2	321.0	311.5	302.0	292.9
-82.5°	294.4	298.2	300.5	302.6	300.5	298.2	294.4	290.3	282.6	274.7	266.6
-85°	265.3	268.3	270.4	272.5	270.4	268.3	265.3	262.2	255.1	247.9	241.0
-87.5°	239.5	242.3	243.7	245.0	243.7	242.3	239.5	236.7	230.6	224.4	218.5
-90°	1.0	0.7	0.7	0.7	0.7	0.7	1.0	1.3	1.3	1.3	1.7



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	197.5	193.5	189.5	186.5	183.4	179.8	176.1	170.4	164.7	158.7	152.7
87.5°	2.7	2.6	2.6	2.7	2.7	3.0	3.2	3.2	3.3	3.7	4.0
85°	3.2	3.2	3.2	3.4	3.7	3.7	3.7	3.7	3.7	4.0	4.3
82.5°	3.3	3.3	3.3	3.7	4.0	4.0	4.0	4.1	4.2	4.5	4.7
80°	3.3	3.6	3.8	3.9	4.0	4.1	4.2	4.5	4.7	4.7	4.8
77.5°	3.4	3.7	4.0	4.2	4.3	4.6	4.8	4.7	4.8	5.0	5.2
75°	4.2	4.3	4.4	4.8	5.1	5.2	5.4	5.5	5.5	5.5	5.7
72.5°	7.0	6.7	6.5	6.5	6.4	6.4	6.5	6.6	6.6	6.3	6.1
70°	10.6	10.6	10.8	10.8	10.6	10.3	9.7	8.9	8.2	8.1	7.6
67.5°	14.4	14.3	14.9	15.9	15.7	15.2	14.1	13.0	12.1	11.3	9.7
65°	17.4	17.5	17.4	17.2	17.6	18.1	18.4	17.4	17.5	16.0	12.8
62.5°	17.0	17.7	16.7	16.1	17.0	18.7	21.6	23.1	24.3	22.9	19.2
60°	13.3	14.4	14.0	14.2	15.5	19.3	24.7	28.9	32.3	30.0	25.8
57.5°	8.9	9.2	10.2	12.2	14.3	20.6	27.6	34.0	38.6	35.8	32.2
55°	9.8	10.7	11.1	12.5	14.1	22.5	30.3	37.0	41.7	40.5	36.7
52.5°	21.6	24.3	24.1	21.4	23.0	28.9	33.5	41.1	45.3	45.2	42.1
50°	74.9	77.8	69.7	58.1	59.0	49.1	54.9	56.3	54.7	55.2	50.5
47.5°	204.9	190.6	171.9	157.6	140.3	120.8	120.6	98.4	95.5	77.1	73.8
45°	403.0	361.3	326.8	298.4	268.8	248.4	228.9	217.2	172.0	154.9	111.4
42.5°	1037.7	720.2	542.7	466.1	401.6	371.8	350.4	335.9	315.6	262.2	219.7
40°	2072.7	1609.8	1188.5	746.0	564.3	482.5	451.5	417.6	414.2	386.6	330.7
37.5°	3092.1	2615.5	2087.4	1537.2	1023.0	650.5	576.4	525.6	488.2	478.0	437.8
35°	4037.2	3543.3	3054.1	2469.3	1800.6	1250.3	758.4	668.5	596.4	554.1	530.0
32.5°	5095.6	4576.7	3959.5	3387.9	2788.5	2080.7	1437.8	890.7	731.5	658.2	601.5
30°	6786.0	5919.5	5088.9	4356.0	3756.5	3114.7	2307.7	1489.2	943.1	766.1	677.3
27.5°	9445.7	7789.1	6683.8	5716.0	4916.4	4239.8	3424.7	2335.6	1299.8	934.9	776.3
25°	13086.0	11224.8	9336.0	7951.1	6790.8	5634.2	4771.0	3453.4	2126.1	1135.7	886.9
22.5°	17413.4	15112.3	12982.0	10726.8	8975.1	7447.8	6032.8	4583.8	2988.5	1596.2	1074.8
20°	21248.4	18570.5	16157.3	13657.5	11132.3	8941.5	7098.1	5581.2	3916.8	2324.5	1257.3
17.5°	26007.0	22280.0	19289.5	16598.2	13596.7	10869.6	8535.1	6646.9	4783.8	2932.6	1407.0
15°	31264.2	26471.8	22464.6	19059.8	15914.8	12831.2	10105.1	7786.5	5752.0	3575.6	1848.4
12.5°	36911.9	31092.6	25719.8	21473.2	17733.7	14366.3	11172.5	8777.2	6651.0	4348.7	2334.7
10°	40710.3	34695.8	28920.2	24040.5	19690.7	15628.2	12085.0	9388.6	7235.2	5025.4	2810.9
7.5°	44676.2	37558.1	31285.0	25923.7	21394.7	17151.0	12987.6	9861.0	7684.5	5530.7	3180.7
5°	47050.1	39542.2	33016.9	27402.5	22618.4	18375.0	14055.5	10281.8	8055.8	5909.9	3463.5
2.5°	48921.1	40772.4	33959.6	28189.4	23454.3	19109.2	14938.6	10695.6	8255.5	6088.0	3542.1
0°	50549.3	41658.8	34707.2	28792.0	23980.2	19579.4	15388.2	11098.6	8316.1	6132.1	3528.4
-2.5°	50480.4	41366.1	34276.6	28495.5	23749.6	19429.9	15443.0	11616.8	8740.0	6169.4	3533.6
-5°	50532.0	41380.7	33996.2	28293.1	23544.4	19233.0	15283.5	11768.3	8963.1	6119.0	3453.3
-7.5°	49180.1	40644.8	33482.9	27869.6	23190.7	18871.4	14898.6	11577.8	8973.2	6121.8	3322.6
-10°	46518.5	38885.3	32263.6	26969.9	22490.9	18238.2	14334.6	11263.9	8730.4	5878.8	3098.3
-12.5°	43587.1	36782.9	30613.6	25615.6	21381.1	17315.8	13621.4	10815.3	8288.2	5422.9	2878.7
-15°	39728.6	34323.8	29182.4	24241.1	19983.9	16178.5	12802.7	10251.1	7727.1	4831.1	2537.8
-17.5°	35938.8	31306.8	26839.4	22631.7	18483.9	14933.2	12025.8	9508.2	6928.9	4155.2	2090.5
-20°	32241.5	28262.8	24392.0	20482.1	16796.5	13525.0	11049.4	8606.2	5930.9	3492.7	2017.8



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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°	28630.1	25443.5	21998.4	18244.7	15035.6	12306.2	9898.6	7489.5	4790.8	2713.7	1921.2
-25°	25043.5	22398.7	19275.6	16393.5	13468.1	10959.8	8645.0	6107.4	3815.4	2256.3	1792.2
-27.5°	21449.7	18983.8	16741.4	14363.1	12021.8	9549.3	7105.6	4667.4	2731.6	2048.7	1720.7
-30°	17955.9	16068.1	14197.8	12312.3	10303.9	7965.0	5371.3	3424.6	2262.6	1852.3	1628.3
-32.5°	14921.0	13452.8	11907.0	10256.8	8288.6	6126.8	3963.1	2470.5	1993.7	1742.3	1571.6
-35°	12297.2	10966.0	9665.6	7946.9	5946.0	4151.4	2622.0	2134.6	1829.7	1636.1	1520.9
-37.5°	9853.3	8525.8	7030.4	5438.7	3814.2	2613.6	2206.6	1907.9	1690.7	1569.2	1453.1
-40°	7132.3	5764.6	4449.1	3110.4	2520.2	2178.7	1946.5	1751.4	1621.2	1494.6	1379.9
-42.5°	4333.8	3211.1	2566.8	2337.7	2105.2	1935.1	1775.8	1664.7	1545.0	1423.9	1270.2
-45°	2468.0	2273.0	2098.4	2000.4	1874.0	1776.7	1687.3	1576.2	1465.5	1308.7	1145.5
-47.5°	2014.2	1933.2	1856.5	1808.8	1749.3	1676.6	1581.2	1475.4	1324.0	1169.6	1032.7
-50°	1786.6	1757.4	1727.8	1693.6	1633.9	1561.3	1445.6	1311.0	1173.7	1047.2	920.6
-52.5°	1676.6	1639.8	1602.9	1565.1	1487.5	1384.7	1270.2	1152.1	1033.0	922.5	811.6
-55°	1543.8	1486.6	1427.2	1361.9	1289.5	1200.6	1104.9	999.4	898.2	797.4	712.7
-57.5°	1325.9	1267.4	1217.5	1160.9	1098.2	1025.3	948.0	856.9	771.5	693.4	619.9
-60°	1115.5	1061.4	1020.4	974.5	923.5	862.8	801.4	731.1	655.5	593.1	533.0
-62.5°	921.7	876.2	841.9	807.3	768.8	724.0	670.3	616.5	556.3	499.5	457.3
-65°	751.3	716.1	686.9	661.8	633.3	601.7	556.9	515.9	472.3	429.2	392.2
-67.5°	608.0	581.4	558.1	537.3	519.7	499.8	469.5	436.1	404.3	374.7	349.6
-70°	496.8	478.8	462.7	447.5	434.4	422.3	403.4	380.8	355.4	330.7	309.6
-72.5°	417.9	405.8	394.8	385.7	375.5	365.5	351.1	332.3	312.0	291.0	273.5
-75°	361.1	351.5	342.1	334.2	325.4	316.1	305.8	292.2	278.1	263.5	249.8
-77.5°	316.9	308.9	301.1	295.4	289.5	283.3	275.3	263.7	252.7	241.4	230.7
-80°	284.0	277.1	270.6	266.6	262.3	257.0	250.9	241.8	232.7	222.9	213.4
-82.5°	258.6	252.5	246.5	242.7	238.6	233.6	228.3	220.6	212.8	204.4	196.0
-85°	234.1	229.3	224.5	220.6	216.7	212.0	207.1	200.4	193.7	186.0	178.3
-87.5°	212.6	208.3	204.0	201.0	197.9	193.3	188.7	182.8	177.0	170.2	163.5
-90°	2.0	2.0	2.0	2.4	2.7	2.7	2.7	3.0	3.3	3.7	4.0



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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°	147.0	141.3	136.0	130.6	126.3	121.9	117.2	112.5	104.8	97.1	86.4
87.5°	4.2	4.5	4.8	5.1	5.1	5.1	5.4	5.7	5.8	5.8	6.1
85°	4.6	4.9	5.1	5.4	5.4	5.4	5.7	5.9	6.1	6.3	6.5
82.5°	5.1	5.4	5.3	5.4	5.8	6.1	6.1	6.2	6.5	6.8	6.9
80°	5.1	5.4	5.5	5.7	6.2	6.7	6.5	6.6	6.9	7.2	7.3
77.5°	5.4	5.6	5.8	6.0	6.4	6.7	6.8	6.9	7.4	7.7	7.7
75°	5.8	5.9	5.9	6.2	6.6	6.8	7.0	7.3	7.7	8.1	8.1
72.5°	6.3	6.3	6.2	6.3	6.9	7.2	7.4	7.6	8.0	8.5	8.6
70°	7.1	6.8	6.6	6.8	7.3	7.7	8.0	8.2	8.4	8.8	9.1
67.5°	8.0	7.6	7.2	7.4	7.7	8.4	8.7	9.0	9.1	9.3	9.6
65°	11.0	9.7	8.0	8.4	8.5	9.1	9.6	9.9	9.9	10.2	10.2
62.5°	15.5	13.1	11.6	10.3	10.0	10.9	10.8	11.6	11.0	11.2	11.1
60°	21.2	17.5	15.7	14.2	13.3	13.3	13.7	13.5	13.3	12.2	12.1
57.5°	26.5	21.6	21.0	19.0	18.4	17.4	17.5	17.2	16.1	15.1	13.3
55°	31.4	27.1	27.2	25.7	25.1	23.2	22.9	22.1	20.0	18.7	14.7
52.5°	36.4	34.8	34.3	34.8	34.3	30.8	30.5	27.6	26.0	22.7	18.5
50°	44.1	45.6	44.0	46.6	45.2	43.0	38.7	35.6	32.4	27.6	22.6
47.5°	64.1	65.2	60.2	62.1	59.8	56.6	50.9	44.7	39.2	33.9	26.8
45°	111.3	95.8	89.7	84.0	78.7	74.5	65.3	54.2	47.9	40.2	31.0
42.5°	176.2	154.9	138.1	109.3	107.1	95.3	81.5	68.6	57.0	46.8	36.2
40°	277.8	238.3	201.8	169.7	142.5	118.4	103.1	84.6	66.3	54.1	42.1
37.5°	386.0	335.9	287.9	238.7	189.3	155.7	126.9	101.5	77.6	62.6	48.1
35°	482.3	437.8	371.5	314.2	257.5	194.7	152.6	121.0	92.9	71.4	54.2
32.5°	565.0	522.3	450.2	386.6	312.8	234.7	184.8	143.2	108.4	80.3	60.6
30°	631.5	582.9	522.4	444.0	358.8	279.9	218.5	165.0	124.2	89.5	67.4
27.5°	696.3	641.2	586.1	496.7	401.7	318.7	246.5	186.4	140.2	99.7	74.8
25°	774.0	702.2	641.5	554.0	443.7	350.0	271.6	207.4	157.4	111.6	81.9
22.5°	870.8	762.2	697.7	614.2	491.7	380.9	296.1	229.5	172.2	122.8	88.7
20°	955.5	815.4	751.6	670.2	543.8	420.4	321.5	248.0	186.2	133.3	95.1
17.5°	1044.8	871.1	786.1	710.0	594.5	460.2	348.0	265.4	199.3	143.1	101.3
15°	1164.6	931.2	817.7	744.3	637.8	498.4	373.9	282.0	211.6	152.1	107.2
12.5°	1263.0	987.3	848.9	771.2	671.5	533.1	398.8	297.6	222.8	161.2	113.1
10°	1357.8	1047.0	882.8	796.7	699.8	564.2	422.2	314.0	236.1	170.3	118.6
7.5°	1462.2	1103.4	915.5	820.9	723.6	590.0	446.3	333.6	249.0	178.6	123.7
5°	1546.7	1153.4	949.2	848.1	746.6	610.0	468.1	352.1	261.0	186.2	128.5
2.5°	1571.0	1195.2	982.0	873.7	766.2	625.6	487.2	369.1	271.7	193.0	132.8
0°	1577.4	1229.2	1011.6	896.5	782.0	637.4	503.5	384.3	281.2	198.8	136.6
-2.5°	1610.8	1256.7	1038.1	929.2	810.3	652.6	512.8	392.2	289.2	205.6	142.2
-5°	1629.4	1276.0	1061.6	958.1	833.5	664.1	519.2	398.0	295.6	211.4	147.2
-7.5°	1639.8	1290.0	1082.9	982.2	850.6	671.3	522.9	401.7	300.5	216.1	151.7
-10°	1634.7	1296.7	1101.1	995.7	858.6	678.1	524.8	403.6	303.8	219.7	155.5
-12.5°	1642.2	1298.3	1115.7	1005.8	861.5	684.4	531.1	406.4	305.5	222.1	158.8
-15°	1642.5	1314.1	1139.3	1014.0	859.9	686.1	533.6	407.8	306.0	223.5	161.5
-17.5°	1605.2	1315.4	1161.0	1026.0	855.0	683.0	531.9	406.1	304.7	223.8	163.7
-20°	1594.3	1326.3	1173.4	1031.9	844.3	675.9	526.1	401.1	301.6	223.0	165.7



REPORT NUMBER: P701334 (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°
-22.5°	1579.3	1350.1	1187.6	1018.9	829.0	664.9	517.7	393.0	296.6	221.0	167.0
-25°	1533.0	1365.4	1194.2	1003.9	812.6	652.8	507.7	386.0	289.8	217.9	167.7
-27.5°	1505.7	1358.2	1190.2	979.0	795.1	635.5	497.2	380.9	285.1	213.6	167.8
-30°	1489.1	1335.7	1155.0	946.7	769.3	614.9	483.8	372.8	281.4	211.7	167.3
-32.5°	1450.7	1308.9	1101.8	910.0	740.6	590.6	467.6	361.7	275.8	211.6	166.9
-35°	1393.0	1241.4	1038.8	863.6	708.8	569.2	449.2	347.5	268.2	210.4	166.3
-37.5°	1325.6	1146.8	981.4	814.6	667.8	542.8	430.5	334.6	258.7	208.1	165.3
-40°	1220.2	1054.3	904.2	762.8	627.0	510.0	408.6	322.1	252.9	204.9	163.6
-42.5°	1110.2	963.0	828.0	701.1	583.4	478.8	384.6	307.5	248.1	201.6	161.2
-45°	1005.3	871.1	751.0	641.8	537.0	445.1	365.3	292.2	242.0	198.0	158.9
-47.5°	900.0	785.3	678.2	579.3	496.2	411.5	342.0	283.7	234.6	193.6	157.0
-50°	803.8	701.5	607.4	523.5	448.5	383.3	319.6	273.5	227.9	188.0	154.6
-52.5°	712.4	621.8	541.1	467.7	408.6	353.1	304.3	261.3	220.0	183.2	151.6
-55°	626.0	547.4	477.4	419.8	369.6	329.7	287.5	249.0	210.9	178.5	148.3
-57.5°	547.7	476.3	424.8	376.7	338.2	306.2	271.2	235.6	203.7	173.2	146.6
-60°	472.7	423.0	377.5	342.4	311.3	283.3	254.6	222.8	196.6	167.9	144.3
-62.5°	413.4	372.8	342.1	312.2	285.4	261.3	238.0	212.7	188.5	164.4	141.4
-65°	364.7	336.4	308.3	284.2	260.6	240.7	224.7	201.8	182.1	160.5	138.1
-67.5°	324.9	301.5	278.3	256.6	240.0	225.4	210.4	193.4	176.1	156.2	134.1
-70°	289.1	268.3	251.5	237.2	223.5	210.5	199.9	185.8	169.6	150.9	129.8
-72.5°	259.7	245.9	232.0	219.1	209.5	199.8	190.0	177.7	162.3	145.2	125.1
-75°	237.4	226.6	216.2	206.5	197.8	188.9	179.9	169.2	154.7	139.1	119.7
-77.5°	221.2	211.7	202.6	193.7	185.7	177.6	169.6	160.4	146.6	131.9	113.7
-80°	205.0	196.5	188.4	180.4	173.2	166.0	158.5	150.2	137.3	124.2	107.5
-82.5°	188.5	181.0	173.7	166.4	159.7	152.9	146.3	139.2	127.8	116.3	101.6
-85°	171.7	165.0	158.4	151.7	145.7	139.7	134.6	129.2	119.7	110.0	96.7
-87.5°	157.8	152.0	146.3	140.5	135.7	130.9	126.0	120.9	112.3	103.7	91.7
-90°	4.0	4.0	4.4	4.7	4.7	4.7	5.1	5.4	5.4	5.4	5.7



REPORT NUMBER: P701334 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	75.7	62.6	49.5	35.4	21.4	14.4	7.4
87.5°	6.4	6.3	6.2	6.2	6.2	6.8	7.4
85°	6.7	6.6	6.5	6.4	6.4	7.0	7.4
82.5°	7.1	6.9	6.7	6.7	6.5	7.1	7.4
80°	7.4	7.2	7.0	6.9	6.7	7.3	7.4
77.5°	7.8	7.5	7.2	7.1	6.9	7.4	7.4
75°	8.2	8.0	7.5	7.3	7.1	7.6	7.4
72.5°	8.6	8.4	8.0	7.6	7.3	7.8	7.4
70°	9.0	8.9	8.4	7.8	7.6	7.9	7.4
67.5°	9.6	9.4	8.9	8.2	7.8	8.1	7.4
65°	10.2	9.9	9.4	8.6	8.0	8.2	7.4
62.5°	10.8	10.5	9.9	9.0	8.3	8.4	7.4
60°	11.4	11.0	10.3	9.4	8.5	8.6	7.4
57.5°	12.7	11.6	11.0	9.8	9.0	8.7	7.4
55°	14.2	12.2	11.7	10.2	9.4	8.9	7.4
52.5°	15.8	13.0	12.5	10.6	9.9	9.1	7.4
50°	17.5	14.8	13.4	10.9	10.4	9.2	7.4
47.5°	19.7	16.8	14.3	11.4	11.0	9.4	7.4
45°	23.4	18.8	15.2	12.1	11.6	9.6	7.4
42.5°	27.1	21.0	16.2	12.9	12.1	9.7	7.4
40°	31.0	23.2	17.6	14.0	12.8	9.9	7.4
37.5°	35.3	25.6	19.4	15.3	13.4	10.0	7.4
35°	39.5	28.6	21.2	16.7	14.1	10.2	7.4
32.5°	44.2	32.1	23.0	18.1	14.7	10.4	7.4
30°	49.6	35.4	24.8	19.5	15.4	10.5	7.4
27.5°	54.8	38.8	27.2	21.0	16.1	10.7	7.4
25°	60.0	42.1	29.7	22.4	16.8	10.8	7.4
22.5°	65.0	45.4	32.2	23.9	17.5	11.0	7.4
20°	69.8	49.1	34.6	25.4	18.2	11.1	7.4
17.5°	74.6	52.6	36.9	26.8	19.0	11.3	7.4
15°	79.2	55.9	39.1	28.3	19.7	11.4	7.4
12.5°	83.6	59.1	41.3	29.7	20.3	11.6	7.4
10°	87.7	62.1	43.4	31.1	21.0	11.7	7.4
7.5°	91.5	64.9	45.4	32.5	21.7	11.8	7.4
5°	95.1	67.6	47.4	33.8	22.3	11.9	7.4
2.5°	98.2	70.0	49.2	35.0	22.9	12.0	7.4
0°	101.1	72.3	50.9	36.2	23.4	12.1	7.4
-2.5°	105.4	75.6	53.3	37.8	24.4	12.6	7.4
-5°	109.4	78.7	55.5	39.3	25.4	13.0	7.4
-7.5°	113.0	81.5	57.6	40.7	26.3	13.5	7.4
-10°	116.1	84.1	59.6	42.1	27.1	13.9	7.4
-12.5°	118.9	86.4	61.4	43.3	27.9	14.3	7.4
-15°	121.2	88.4	63.0	44.5	28.7	14.7	7.4
-17.5°	123.1	90.2	64.5	45.5	29.4	15.1	7.4
-20°	124.8	91.6	65.8	46.5	30.0	15.4	7.4



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 CATALOG NUMBER: EPH-LS-08-0320L-40-70-5S-VHE-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	126.5	92.6	66.9	47.4	30.6	15.7	7.4
-25°	127.7	93.9	67.8	48.1	31.1	16.0	7.4
-27.5°	128.5	95.2	68.6	48.7	31.5	16.3	7.4
-30°	128.7	96.1	69.2	49.3	31.9	16.6	7.4
-32.5°	128.5	96.7	70.3	49.7	32.1	16.8	7.4
-35°	128.5	97.0	71.3	50.0	32.4	17.0	7.4
-37.5°	128.5	97.3	72.1	50.2	32.5	17.2	7.4
-40°	128.1	98.1	72.7	50.3	32.6	17.3	7.4
-42.5°	127.4	98.5	73.2	50.4	32.6	17.4	7.4
-45°	126.3	98.8	73.6	50.7	32.5	17.5	7.4
-47.5°	124.7	98.8	73.8	50.8	32.4	17.6	7.4
-50°	124.2	98.5	73.7	50.8	32.2	17.6	7.4
-52.5°	123.5	98.0	73.3	50.8	31.9	17.6	7.4
-55°	122.4	97.1	72.8	50.5	31.5	17.6	7.4
-57.5°	121.1	96.0	72.0	50.1	31.1	17.5	7.4
-60°	119.4	94.5	70.9	49.6	30.6	17.4	7.4
-62.5°	117.2	92.8	69.9	49.0	30.2	17.3	7.4
-65°	114.6	90.8	68.7	48.2	29.7	17.1	7.4
-67.5°	111.7	88.7	67.3	47.2	29.2	17.0	7.4
-70°	108.5	86.3	65.7	46.2	28.5	16.8	7.4
-72.5°	104.7	83.6	64.0	45.2	27.8	16.6	7.4
-75°	100.5	80.6	62.1	44.1	27.1	16.3	7.4
-77.5°	96.0	77.4	60.3	42.9	26.2	16.0	7.4
-80°	91.1	74.5	58.4	41.6	25.3	15.7	7.4
-82.5°	87.4	71.8	56.3	40.2	24.4	15.4	7.4
-85°	83.7	68.9	54.2	38.7	23.4	15.1	7.4
-87.5°	79.8	65.8	51.9	37.1	22.4	14.8	7.4
-90°	6.0	6.0	6.0	6.0	6.0	6.7	7.4

(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

