

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: P701356 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-40-80-5S-CV2-S**

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701356 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-32)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320L-40-80-5S-CV2-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 5S BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

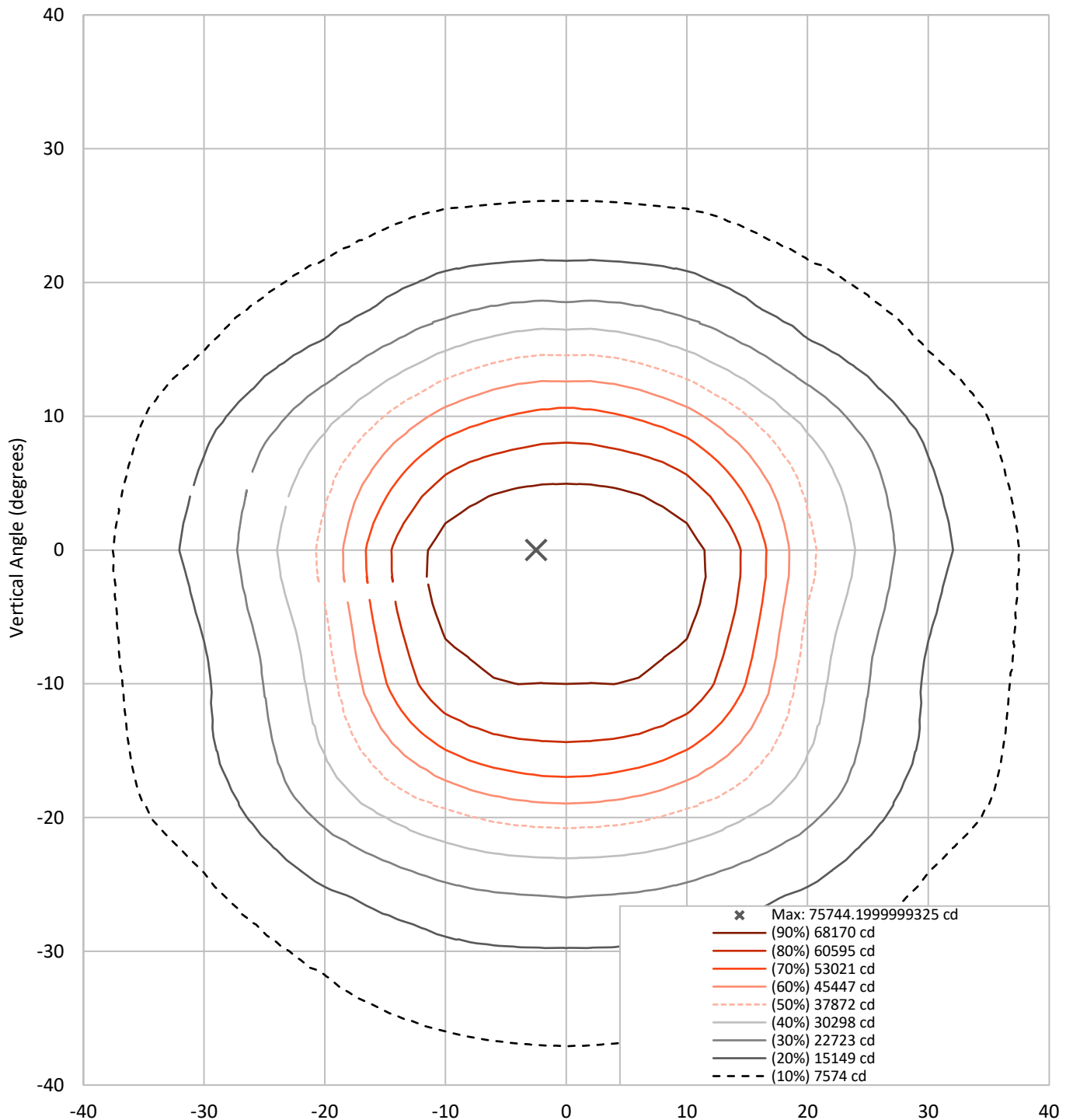
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 4V
Luminaire Lumens:	37381.8 lumens	Max Intensity:	75744.2 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	108.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	41.5°H x 35.3°V	Field Angle (10%):	75°H x 63°V
Beam Lumens:	20560.8 lumens	Field Lumens:	34246.1 lumens
Beam Efficiency:	55.0%	Field Efficiency:	91.6%

Input Watts (W): 344.2
Input Voltage (V): NR
Input Current (A_{in}): 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





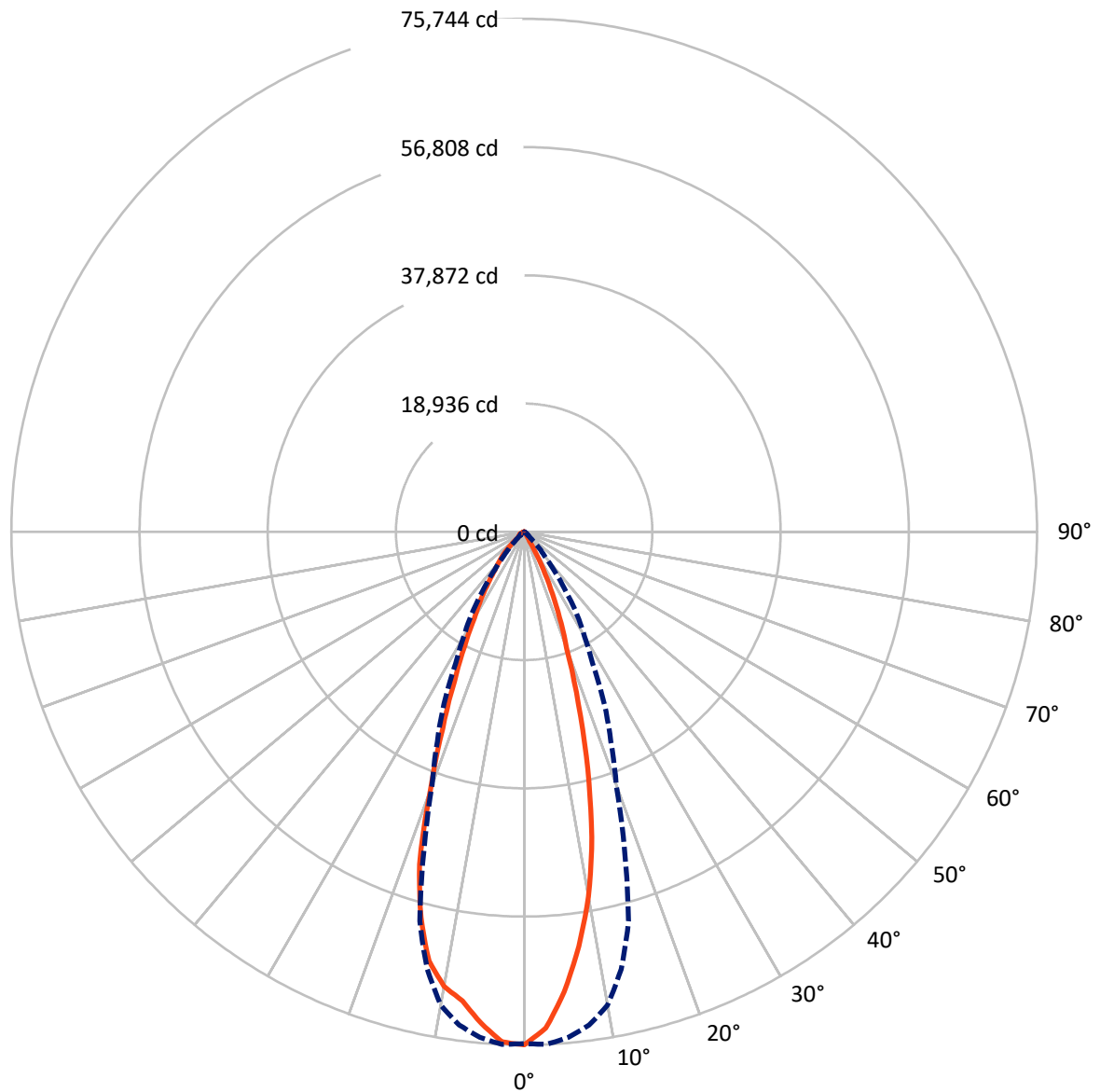
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Lumen Table

90																
80	0.1	0.3		0.3		0.3		0.3		0.3		0.3		0.1		
70																
60	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.1	0.1
50		0.1	0.1	0.4	0.4	0.2	0.2	0.3	0.3	0.2	0.2	0.4	0.4	0.1	0.1	
40	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.1	1.1	0.9	0.6	0.4	0.3	0.2	0.1	0.1
30		0.1	0.5	1.1	3.0	8.4	14.5	18.5	18.5	14.5	8.4	3.0	1.1	0.5	0.1	
20	0.1	0.2	1.6	5.7	33.2	95.4	194.0	280.0	280.0	194.0	95.4	33.2	5.7	1.6	0.2	0.1
10		0.4	3.5	18.6	118.1	346.0	709.1	1047.7	1047.7	709.1	346.0	118.1	18.6	3.5	0.4	
0	0.2	0.8	6.0	40.5	242.9	693.7	1452.5	1982.4	1982.4	1452.5	693.7	242.9	40.5	6.0	0.8	0.2
-10		1.4	8.2	49.0	254.3	710.4	1630.1	2172.7	2172.7	1630.1	710.4	254.3	49.0	8.2	1.4	
-20	0.2	1.6	8.4	39.3	215.9	584.9	1231.7	1696.1	1696.1	1231.7	584.9	215.9	39.3	8.4	1.6	0.2
-30		1.4	6.9	18.5	108.3	313.0	575.5	755.7	755.7	575.5	313.0	108.3	18.5	6.9	1.4	
-40	0.2	1.1	4.8	10.8	31.6	117.9	217.0	283.1	283.1	217.0	117.9	31.6	10.8	4.8	1.1	0.2
-50		0.6	2.9	7.6	14.0	26.2	59.0	89.0	89.0	59.0	26.2	14.0	7.6	2.9	0.6	
-60	0.1	0.3	1.4	4.2	8.9	14.7	20.1	23.3	23.3	20.1	14.7	8.9	4.2	1.4	0.3	0.1
-70		0.1	0.5	1.7	3.7	6.5	9.8	11.7	11.7	9.8	6.5	3.7	1.7	0.5	0.1	
-80																
-90	0.1	0.4		1.3		3.5		4.9		3.5		1.3		0.4	0.1	

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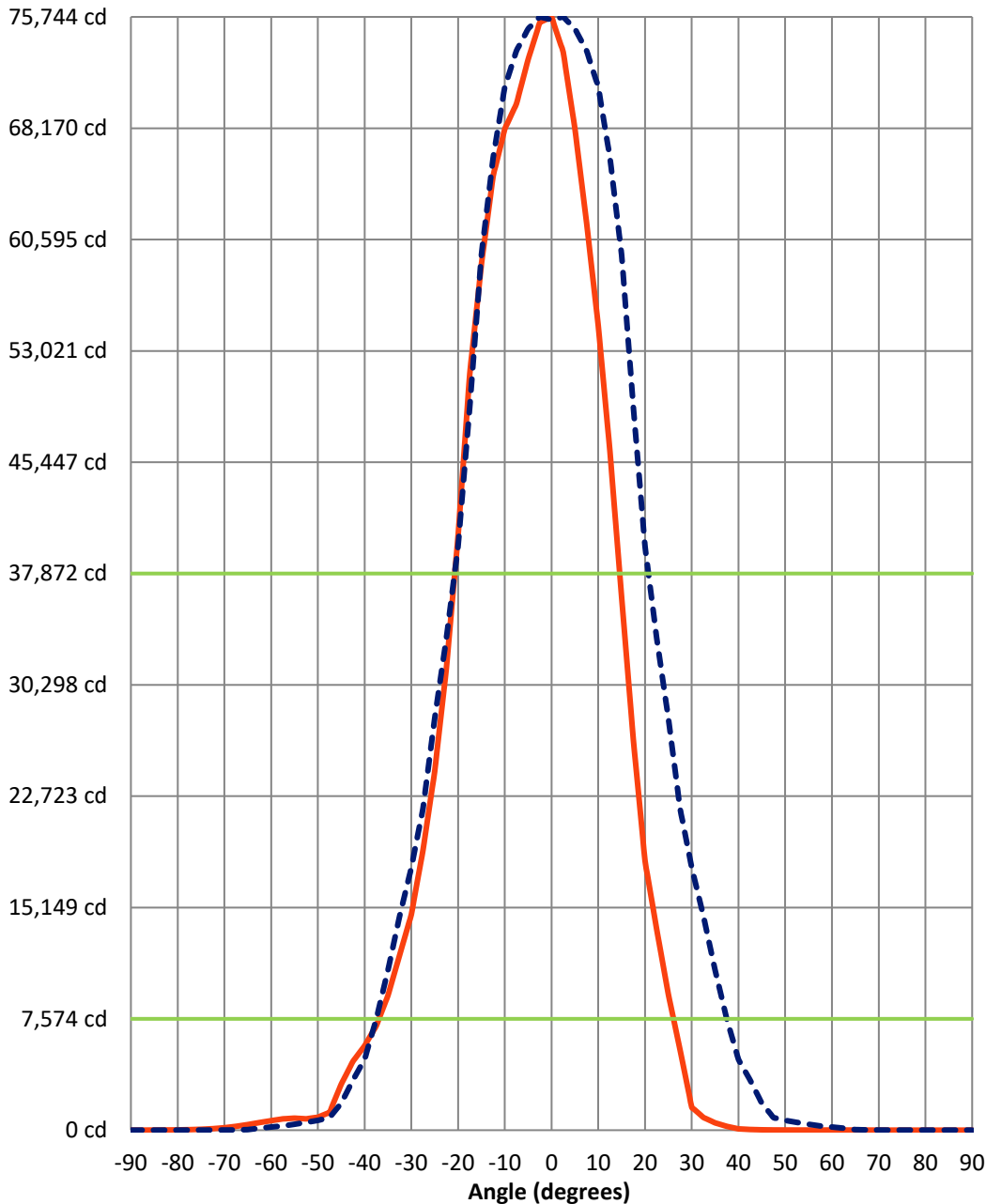
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 41.5°
 V Angle: 35.3°
 Lumens: 20560.8
 Efficiency: 55.0%

Field:
 H Angle: 75°
 V Angle: 63°
 Lumens: 34246.1
 Efficiency: 91.6%

Spill:
 Lumens: 3135.7
 Efficiency: 8.4%

— 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°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
87.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
85°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
82.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
80°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
77.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
75°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.5	4.4
72.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.5	4.6	4.6	4.5
70°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.7	4.9	4.8	4.9
67.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.7	5.0	5.1	5.1	5.2
65°	4.4	4.4	4.4	4.4	4.4	4.5	5.0	5.3	5.3	5.3	5.5
62.5°	4.4	4.4	4.4	4.4	4.4	4.7	5.2	5.4	5.4	5.5	5.5
60°	4.4	4.4	4.4	4.4	4.4	4.9	5.5	5.5	5.5	5.5	5.5
57.5°	4.4	4.4	4.4	4.4	4.6	5.1	5.5	5.5	5.5	5.5	5.5
55°	4.4	4.4	4.4	4.4	4.7	5.3	5.5	5.5	5.5	5.5	5.5
52.5°	4.4	4.4	4.4	4.4	4.9	5.5	5.5	5.5	5.5	5.5	5.5
50°	4.4	4.4	4.4	4.4	5.0	5.5	5.5	5.5	5.5	5.5	5.8
47.5°	4.4	4.4	4.4	4.4	5.2	5.5	5.5	5.5	5.5	5.5	6.2
45°	4.4	4.4	4.4	4.5	5.3	5.5	5.5	5.5	5.5	5.8	6.6
42.5°	4.4	4.4	4.4	4.6	5.4	5.5	5.5	5.5	5.6	6.1	6.9
40°	4.4	4.4	4.4	4.7	5.5	5.5	5.5	5.6	5.8	6.4	7.2
37.5°	4.4	4.4	4.4	4.8	5.5	5.5	5.5	5.7	6.1	6.8	7.5
35°	4.4	4.4	4.4	4.8	5.5	5.5	5.5	5.9	6.4	7.2	7.8
32.5°	4.4	4.4	4.4	4.9	5.5	5.5	5.5	6.0	6.7	7.6	8.4
30°	4.4	4.4	4.4	4.9	5.5	5.5	5.6	6.2	7.0	8.0	9.0
27.5°	4.4	4.4	4.4	4.9	5.5	5.5	5.8	6.4	7.3	8.5	9.7
25°	4.4	4.4	4.4	4.9	5.4	5.5	5.9	6.7	7.7	9.1	10.6
22.5°	4.4	4.4	4.4	4.9	5.4	5.5	6.0	6.9	8.1	9.7	12.4
20°	4.4	4.4	4.4	4.9	5.4	5.5	6.2	7.1	8.5	10.4	14.4
17.5°	4.4	4.4	4.4	4.8	5.4	5.5	6.3	7.3	8.8	11.0	16.3
15°	4.4	4.4	4.4	4.8	5.4	5.5	6.4	7.4	9.2	11.7	18.2
12.5°	4.4	4.4	4.4	4.7	5.4	5.5	6.4	7.5	9.6	12.4	20.1
10°	4.4	4.4	4.4	4.7	5.5	5.5	6.5	7.6	9.9	13.4	22.6
7.5°	4.4	4.4	4.4	4.6	5.5	5.5	6.5	7.6	10.2	14.5	26.7
5°	4.4	4.4	4.4	4.5	5.5	5.5	6.6	7.7	10.5	15.6	30.8
2.5°	4.4	4.4	4.4	4.5	5.5	5.5	6.6	7.7	10.8	16.7	34.8
0°	4.4	4.4	4.4	4.4	5.5	5.5	6.6	7.7	11.0	17.7	38.6
-2.5°	4.4	4.4	4.4	4.5	5.5	5.7	7.0	8.7	14.0	24.2	49.9
-5°	4.4	4.4	4.4	4.5	5.5	6.0	7.5	9.7	16.8	30.5	60.5
-7.5°	4.4	4.4	4.4	4.6	5.5	6.2	7.8	10.6	19.4	36.2	70.2
-10°	4.4	4.4	4.4	4.7	5.5	6.4	8.2	11.5	21.7	41.2	78.6
-12.5°	4.4	4.4	4.4	4.7	5.4	6.6	8.5	12.2	23.5	45.5	84.4
-15°	4.4	4.4	4.4	4.8	5.4	6.7	8.8	12.8	25.3	49.1	88.4
-17.5°	4.4	4.4	4.4	4.8	5.4	6.8	9.0	13.7	27.1	51.8	91.1
-20°	4.4	4.4	4.4	4.9	5.4	6.8	9.3	14.7	28.2	53.4	92.3



REPORT NUMBER: P701356 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-5S-CV2-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.4	4.4	4.4	4.9	5.4	6.8	9.7	15.4	28.7	53.9	92.0
-25°	4.4	4.4	4.4	4.9	5.4	6.8	9.8	15.8	28.3	53.1	90.1
-27.5°	4.4	4.4	4.4	4.9	5.5	6.7	9.8	15.8	27.2	51.8	89.1
-30°	4.4	4.4	4.4	4.9	5.5	6.6	9.7	15.5	26.6	50.5	86.4
-32.5°	4.4	4.4	4.4	4.9	5.6	6.4	9.3	15.3	26.3	48.0	82.1
-35°	4.4	4.4	4.4	4.8	5.6	6.2	9.0	14.8	25.3	44.4	76.0
-37.5°	4.4	4.4	4.4	4.8	5.6	6.1	8.8	14.1	23.9	39.7	67.0
-40°	4.4	4.4	4.4	4.7	5.7	6.1	8.4	13.1	21.8	36.5	58.7
-42.5°	4.4	4.4	4.4	4.6	5.6	6.1	8.0	11.8	20.0	32.8	50.0
-45°	4.4	4.4	4.4	4.6	5.5	6.2	7.5	10.7	18.2	28.6	41.5
-47.5°	4.4	4.4	4.4	4.5	5.4	6.1	7.0	10.0	15.9	24.2	36.5
-50°	4.4	4.4	4.4	4.5	5.3	6.1	6.8	9.3	13.1	21.0	31.1
-52.5°	4.4	4.4	4.4	4.5	5.2	6.1	6.8	8.4	11.5	17.5	25.6
-55°	4.4	4.4	4.4	4.5	5.1	5.9	6.6	7.6	10.3	13.8	21.4
-57.5°	4.4	4.4	4.4	4.5	4.9	5.8	6.5	7.4	9.0	11.8	16.8
-60°	4.4	4.4	4.4	4.6	4.8	5.6	6.4	7.1	7.9	10.3	13.0
-62.5°	4.4	4.4	4.4	4.6	4.8	5.4	6.1	6.9	7.6	8.6	11.1
-65°	4.4	4.4	4.4	4.6	4.8	5.2	5.9	6.6	7.3	8.0	9.2
-67.5°	4.4	4.4	4.4	4.6	4.9	5.1	5.7	6.3	7.0	7.7	8.3
-70°	4.4	4.4	4.4	4.6	4.9	5.1	5.4	6.1	6.7	7.3	7.9
-72.5°	4.4	4.4	4.4	4.6	4.9	5.2	5.4	5.8	6.4	6.9	7.5
-75°	4.4	4.4	4.4	4.6	4.9	5.2	5.4	5.7	6.0	6.5	7.1
-77.5°	4.4	4.4	4.4	4.6	4.9	5.2	5.5	5.6	5.9	6.2	6.7
-80°	4.4	4.4	4.4	4.5	4.8	5.1	5.5	5.5	5.7	5.9	6.2
-82.5°	4.4	4.4	4.4	4.5	4.7	4.9	5.2	5.4	5.5	5.6	5.8
-85°	4.4	4.4	4.4	4.5	4.6	4.8	5.0	5.1	5.2	5.2	5.3
-87.5°	4.4	4.4	4.4	4.4	4.5	4.6	4.7	4.7	4.8	4.8	4.9
-90°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4



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 CATALOG NUMBER: EPH-LS-08-0320L-40-80-5S-CV2-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	4.4	4.4	4.4	4.4	4.1	3.9	3.6	3.3	3.3	3.3	3.3
87.5°	4.3	4.1	4.0	3.9	3.8	3.7	3.5	3.3	3.0	2.8	2.5
85°	4.4	4.4	4.4	4.4	4.1	3.9	3.6	3.3	3.2	3.0	3.0
82.5°	4.4	4.4	4.4	4.4	4.2	3.9	3.6	3.3	3.3	3.3	3.3
80°	4.4	4.4	4.4	4.4	4.2	3.9	3.6	3.3	3.3	3.3	3.4
77.5°	4.4	4.4	4.4	4.4	4.2	4.0	3.9	3.9	3.9	3.8	3.6
75°	4.4	4.4	4.5	4.4	4.3	4.3	4.4	4.4	4.2	4.0	3.7
72.5°	4.6	4.7	4.7	4.5	4.4	4.4	4.4	4.4	4.5	4.6	4.5
70°	5.0	5.1	4.9	4.6	4.4	4.5	5.0	5.6	6.1	6.1	6.0
67.5°	5.4	5.2	4.9	4.7	4.8	5.4	6.1	7.0	7.8	7.8	8.1
65°	5.5	5.2	5.1	5.2	5.5	6.4	7.4	8.4	10.8	12.2	12.9
62.5°	5.5	5.3	5.4	5.8	6.6	7.7	9.2	11.9	15.6	17.6	17.0
60°	5.5	5.5	5.9	6.7	7.6	8.7	11.1	14.8	19.7	23.1	21.1
57.5°	5.5	5.8	6.5	7.4	8.2	9.1	12.4	17.0	22.7	28.8	25.0
55°	5.7	6.3	7.1	7.9	8.7	9.5	12.9	18.1	24.5	28.2	24.6
52.5°	6.1	6.7	7.5	8.3	9.2	10.0	12.5	17.6	21.4	24.3	22.5
50°	6.5	7.1	7.9	8.8	9.7	10.7	11.1	15.2	18.3	19.6	19.5
47.5°	6.9	7.6	8.3	9.3	10.5	11.3	11.3	13.3	15.6	17.1	15.9
45°	7.3	8.0	8.7	10.1	11.4	12.2	12.8	12.3	16.0	16.9	16.2
42.5°	7.7	8.4	9.7	11.0	12.7	14.5	15.5	16.8	18.6	20.3	19.8
40°	8.0	8.8	11.0	13.6	14.8	18.2	21.5	23.6	24.3	25.8	25.8
37.5°	8.4	10.2	13.6	19.1	19.2	24.2	28.9	33.6	35.0	32.4	36.7
35°	8.7	11.8	20.6	27.2	28.3	32.1	39.9	47.0	51.3	48.9	52.9
32.5°	9.7	13.5	29.8	36.7	43.5	47.0	52.6	67.9	82.8	87.3	79.5
30°	11.4	21.8	40.2	47.1	63.2	73.8	77.1	97.9	128.9	156.0	209.5
27.5°	13.6	32.1	49.9	64.5	87.8	106.9	115.2	149.2	202.2	273.7	427.5
25°	15.9	42.8	60.2	86.7	119.9	142.2	155.8	203.7	292.6	520.9	808.3
22.5°	21.5	53.8	73.2	111.5	156.3	175.6	204.4	269.6	418.9	798.3	1275.2
20°	30.3	64.1	91.8	135.9	195.2	207.5	249.2	332.9	591.7	1166.4	1739.3
17.5°	38.9	75.8	112.2	164.8	225.1	249.9	292.7	390.5	736.7	1627.7	2341.9
15°	47.3	88.5	131.3	194.0	260.1	308.9	374.5	520.2	1013.8	2173.9	3139.6
12.5°	55.2	101.8	149.3	223.1	300.6	371.5	468.3	731.6	1508.1	2812.0	4253.3
10°	62.6	115.4	165.9	251.6	344.9	436.4	565.5	962.9	2007.6	3367.3	5135.2
7.5°	79.7	136.0	184.5	278.7	391.4	502.0	663.6	1203.6	2458.4	3837.3	5872.1
5°	98.7	163.9	220.1	321.3	440.2	563.8	753.5	1442.0	2853.7	4224.4	6535.9
2.5°	117.4	190.9	254.8	363.7	487.1	617.5	809.2	1649.8	3163.8	4551.9	7108.7
0°	134.7	216.3	288.1	402.9	529.8	666.7	856.6	1831.2	3399.8	4817.1	7560.1
-2.5°	155.9	243.6	325.0	440.2	544.2	668.1	857.3	1764.2	3451.1	5067.6	7390.7
-5°	174.2	268.5	359.1	474.1	557.0	666.1	850.4	1661.9	3422.8	5201.8	7254.2
-7.5°	189.0	290.6	390.0	501.1	568.8	673.0	867.0	1684.5	3375.6	5201.8	7168.6
-10°	197.5	296.9	390.2	499.6	576.5	681.7	878.3	1644.7	3231.8	5094.1	6994.6
-12.5°	189.9	289.1	382.1	493.1	581.3	683.5	874.6	1532.1	2989.2	4874.5	6777.3
-15°	180.8	279.7	370.7	481.1	583.1	677.5	854.3	1339.1	2591.8	4401.5	6515.3
-17.5°	170.8	269.0	355.7	463.1	581.6	663.2	804.6	1033.8	2077.4	3740.8	5914.1
-20°	160.0	257.1	337.1	438.9	573.6	630.4	729.1	917.1	1639.0	3000.0	4968.7



REPORT NUMBER: P701356 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-5S-CV2-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	149.0	244.2	317.8	415.0	527.2	590.7	658.5	793.9	1158.8	2167.3	3746.5
-25°	142.8	228.0	300.9	383.5	479.7	553.7	587.5	672.8	855.5	1591.1	2735.2
-27.5°	139.9	212.5	280.1	351.0	436.3	514.9	539.8	594.9	731.4	1026.4	1847.7
-30°	135.0	191.5	257.3	320.0	398.3	468.4	504.8	539.7	626.8	786.3	1241.2
-32.5°	124.3	170.1	232.6	293.3	360.8	428.8	483.6	517.0	571.9	655.2	806.0
-35°	111.1	154.3	207.6	264.4	323.9	392.1	453.8	502.9	529.5	586.9	687.9
-37.5°	99.1	137.2	182.4	235.3	290.7	353.8	421.7	475.3	514.3	541.8	614.2
-40°	86.4	118.8	161.0	207.8	257.8	315.5	378.0	440.2	489.6	530.7	562.8
-42.5°	73.4	104.0	139.6	180.9	228.2	278.8	332.5	393.5	454.8	508.2	548.8
-45°	63.3	88.7	118.0	157.5	199.2	243.3	292.0	342.5	408.3	468.9	519.4
-47.5°	52.9	73.9	100.8	133.6	171.8	211.2	252.2	302.7	357.4	417.2	474.8
-50°	43.3	62.1	83.6	113.2	145.9	180.7	217.1	263.3	313.7	364.7	417.5
-52.5°	36.9	49.9	69.9	93.1	122.0	153.0	186.6	226.0	270.7	317.3	364.1
-55°	30.3	41.6	56.4	75.9	98.5	126.4	158.0	192.2	227.3	269.8	311.7
-57.5°	24.4	34.0	45.7	60.2	79.0	99.8	129.1	159.6	191.8	224.6	259.6
-60°	18.9	26.9	36.8	48.1	61.0	79.4	100.3	126.6	155.3	184.1	213.5
-62.5°	13.8	20.3	28.4	37.7	48.4	60.0	76.9	96.7	118.1	142.2	166.8
-65°	11.6	14.5	20.3	28.1	36.6	46.7	57.7	69.5	86.9	104.1	121.1
-67.5°	9.3	11.7	14.4	18.3	25.6	33.6	42.0	52.0	62.5	72.1	83.3
-70°	8.5	9.1	11.1	13.6	16.5	20.8	27.9	35.4	42.9	50.1	58.2
-72.5°	7.9	8.4	9.0	9.7	11.8	14.4	17.3	20.6	25.4	31.1	36.8
-75°	7.4	7.7	8.1	8.6	9.2	9.9	10.9	13.2	15.8	18.3	20.6
-77.5°	6.9	7.1	7.3	7.5	7.8	8.2	8.8	9.4	10.2	11.2	12.3
-80°	6.4	6.6	6.8	6.9	6.9	7.0	7.1	7.3	7.6	7.9	8.5
-82.5°	5.9	6.0	6.2	6.3	6.2	6.0	5.8	5.8	6.0	6.1	6.3
-85°	5.4	5.5	5.6	5.7	5.5	5.3	5.1	4.9	4.9	5.0	5.0
-87.5°	4.9	4.9	5.0	5.0	4.8	4.6	4.3	4.1	4.1	4.1	4.2
-90°	4.1	3.9	3.6	3.3	3.3	3.3	3.3	3.3	3.0	2.8	2.5



REPORT NUMBER: P701356 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-5S-CV2-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	3.3	3.3	3.3	3.3	3.3	3.6	3.9	4.1	4.4	4.9	5.5
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	1.9	1.7
85°	2.9	2.8	2.6	2.4	2.2	2.2	2.2	2.2	2.2	1.9	1.7
82.5°	3.3	3.0	2.8	2.5	2.2	2.2	2.2	2.2	2.2	1.9	1.7
80°	3.3	3.2	3.0	2.9	2.9	2.8	2.6	2.4	2.2	1.9	1.7
77.5°	3.4	3.3	3.3	3.3	3.3	3.1	2.8	2.5	2.2	2.0	1.7
75°	3.4	3.3	3.4	3.4	3.3	3.2	3.1	3.1	3.1	2.9	2.7
72.5°	4.3	4.1	4.0	4.0	3.8	3.7	3.7	3.5	3.4	3.3	3.2
70°	5.9	5.8	5.6	5.5	5.3	5.0	4.9	4.6	4.3	4.2	4.3
67.5°	8.7	8.8	8.7	8.3	7.5	6.7	6.3	5.9	5.4	5.4	5.7
65°	12.7	11.1	10.1	9.2	8.4	7.8	7.4	7.0	6.5	6.7	7.6
62.5°	15.1	11.8	10.1	9.4	9.0	8.7	8.1	7.6	7.4	7.6	8.4
60°	17.6	12.7	9.5	8.9	8.3	7.8	7.7	7.7	7.7	7.8	8.2
57.5°	18.8	13.0	8.7	8.4	8.1	7.8	7.8	7.9	7.8	7.7	8.1
55°	18.4	13.1	9.0	8.6	8.5	8.6	8.6	8.2	7.9	7.7	8.0
52.5°	16.8	12.7	9.7	8.9	8.8	8.4	7.7	8.1	8.6	9.0	9.4
50°	15.0	11.9	10.4	9.6	9.6	9.7	9.7	10.3	10.8	11.2	11.6
47.5°	13.7	11.9	11.9	11.6	11.9	12.6	12.8	13.4	15.1	16.0	16.4
45°	13.8	14.7	15.3	15.8	15.8	18.9	21.2	22.4	23.8	25.2	26.3
42.5°	18.7	20.9	22.8	25.7	27.4	32.6	35.3	31.9	38.9	45.0	46.5
40°	28.7	31.7	38.5	46.1	55.1	59.1	77.5	78.3	86.3	106.2	112.6
37.5°	43.6	52.4	76.0	96.0	127.7	146.6	169.9	192.4	210.4	228.9	241.5
35°	67.9	113.0	148.6	210.9	253.5	275.0	302.8	336.0	350.0	408.2	452.7
32.5°	145.1	226.1	322.6	372.4	428.3	471.1	465.2	603.0	656.1	743.6	814.7
30°	268.0	461.6	720.9	720.9	710.9	946.7	1033.0	1211.0	1393.6	1515.2	1805.9
27.5°	619.7	1030.5	1441.2	1449.5	1627.4	2119.7	2400.0	2484.3	3276.4	3785.1	4478.9
25°	1141.9	1818.1	2384.6	2648.2	3176.7	3978.7	4453.5	5019.6	6201.8	7548.9	8399.3
22.5°	1700.7	2421.3	3272.6	3873.0	4885.7	5917.5	6780.9	8030.2	9619.0	11122.2	12139.3
20°	2121.3	2967.9	4170.3	5431.3	6714.3	8007.7	9349.0	11065.6	13216.5	15046.9	16701.2
17.5°	2979.0	3874.1	5501.4	7216.6	8957.9	10339.7	12457.9	14516.7	17137.1	19793.2	21850.4
15°	4248.1	5690.9	7319.0	9543.8	11993.0	14107.6	16353.5	19966.5	23154.4	26568.1	29618.2
12.5°	5876.6	7788.8	9946.4	12505.0	15715.0	19033.6	22458.8	26272.4	30442.0	34542.5	38895.2
10°	7397.2	10025.2	12810.8	15959.1	19632.5	23823.3	28008.5	32329.5	38123.5	43374.7	48029.4
7.5°	8447.1	11542.2	14961.1	18809.2	23343.4	27800.7	32528.2	38403.4	45172.3	51126.8	55897.0
5°	9389.9	12897.1	16310.9	20201.1	25472.6	30567.4	36153.2	43304.1	51009.5	57539.4	62293.3
2.5°	10210.7	13984.9	17300.2	21219.3	27007.0	32307.8	38407.4	46929.7	55906.1	62446.9	67462.9
0°	10885.9	14569.3	17859.8	21896.5	28016.1	33475.6	39733.1	49210.5	59543.4	66150.9	70972.4
-2.5°	10232.1	13573.7	16821.7	20910.3	27077.2	32668.5	39431.8	49072.0	59212.5	66339.1	71317.4
-5°	9738.3	12789.9	15873.2	19918.9	25343.0	30527.5	36874.1	46788.3	57461.5	64662.3	69699.7
-7.5°	9355.7	12018.8	14822.2	18547.5	23509.4	29007.3	35812.0	45377.6	55463.2	62745.9	67310.2
-10°	8938.5	11226.3	14281.6	18036.4	22861.5	28102.9	34148.1	42996.7	53187.0	60194.1	65540.1
-12.5°	8811.5	11227.1	14304.6	17564.8	22003.0	27036.5	32800.0	40337.1	48147.9	55495.6	60183.7
-15°	8606.5	11057.9	14069.7	17136.1	21159.8	26007.5	30818.7	36388.8	42917.2	48226.4	53123.8
-17.5°	8204.8	10560.4	12823.8	15689.1	19605.3	24099.3	27744.9	32125.4	36835.5	40884.0	44578.1
-20°	7242.9	8844.9	10990.1	13692.1	17048.2	20687.2	24006.4	27166.9	30193.8	33278.1	35414.7



REPORT NUMBER: P701356 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-5S-CV2-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	5542.2	7080.5	8879.1	11123.6	13784.1	16955.4	19888.7	22029.3	24437.0	26657.9	28483.8
-25°	4053.0	5180.1	6858.8	8774.0	10510.2	13050.3	15301.3	16747.0	18860.4	20520.6	22101.2
-27.5°	2930.9	4034.7	5403.7	6917.0	8218.8	9583.4	11570.5	12951.0	14613.2	15886.3	17204.6
-30°	2000.5	3216.1	4477.7	5715.5	6705.9	7736.8	8838.0	10199.7	11534.1	12603.7	13556.1
-32.5°	1387.5	2268.4	3501.3	4654.6	5549.6	6335.7	7059.3	8093.7	9092.3	9962.8	10676.7
-35°	850.0	1474.7	2328.7	3426.9	4373.0	5128.4	5795.8	6454.7	7093.5	7748.5	8300.4
-37.5°	719.2	868.3	1400.4	2156.6	3057.9	3898.6	4552.3	5096.3	5578.5	6077.0	6469.5
-40°	635.5	724.7	858.3	1135.0	1828.2	2527.0	3231.9	3817.4	4347.7	4789.7	5133.3
-42.5°	580.4	640.0	705.1	813.6	942.1	1284.7	1890.8	2481.7	3057.0	3539.4	3943.8
-45°	563.3	593.2	628.4	686.5	739.7	843.9	956.4	1073.0	1530.3	2015.6	2443.2
-47.5°	524.3	572.3	604.2	629.2	658.8	706.0	749.2	804.2	909.3	1013.5	1098.6
-50°	472.7	525.1	569.2	611.9	642.1	662.7	678.5	707.0	748.9	789.5	822.4
-52.5°	410.1	461.0	512.2	564.2	607.1	646.8	684.1	709.8	729.4	746.0	754.5
-55°	353.2	395.7	438.5	490.8	542.7	592.4	640.2	680.9	718.9	754.4	774.5
-57.5°	297.6	334.2	372.4	419.1	465.2	510.4	556.7	603.7	649.7	692.6	717.5
-60°	244.6	277.2	311.7	349.4	389.4	431.1	471.1	510.8	550.3	585.3	605.9
-62.5°	192.8	220.1	248.3	278.1	309.6	342.5	375.6	409.0	442.4	470.5	487.9
-65°	140.0	162.4	183.8	205.6	227.7	252.6	278.8	304.4	329.0	348.3	360.9
-67.5°	97.9	112.4	125.5	138.3	154.0	171.7	190.5	208.9	226.6	239.9	248.8
-70°	66.5	74.5	81.7	90.1	100.4	110.9	122.0	132.7	142.8	150.5	156.5
-72.5°	42.5	47.8	52.9	58.7	64.2	70.3	76.6	82.7	88.3	92.3	95.5
-75°	22.9	25.8	30.0	34.0	37.6	42.0	46.6	50.8	54.8	56.9	58.3
-77.5°	14.0	15.9	17.8	19.5	21.2	23.5	26.2	28.8	31.5	32.7	33.6
-80°	9.2	10.1	11.0	11.9	12.9	14.3	15.8	17.3	18.7	19.2	19.5
-82.5°	6.5	6.8	7.1	7.5	7.9	8.8	9.7	10.7	11.6	12.3	13.0
-85°	5.1	5.2	5.2	5.3	5.3	5.8	6.3	6.9	7.5	7.8	8.1
-87.5°	4.2	4.2	4.3	4.3	4.3	4.3	4.4	4.4	4.4	4.7	5.0
-90°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	1.9	1.7



REPORT NUMBER: P701356 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-5S-CV2-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	6.0	6.6	6.1	5.5	6.1	6.6	6.0	5.5	4.9	4.4	4.1
87.5°	1.4	1.1	0.6	0.0	0.6	1.1	1.4	1.7	1.9	2.2	2.2
85°	1.4	1.1	1.1	1.1	1.1	1.1	1.4	1.7	1.9	2.2	2.2
82.5°	1.4	1.1	1.1	1.1	1.1	1.1	1.4	1.7	1.9	2.2	2.2
80°	1.4	1.1	1.1	1.1	1.1	1.1	1.4	1.7	1.9	2.2	2.4
77.5°	1.4	1.1	1.6	2.2	1.6	1.1	1.4	1.7	2.0	2.2	2.5
75°	2.4	2.2	2.2	2.2	2.2	2.2	2.4	2.7	2.9	3.1	3.1
72.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.3	3.4	3.5
70°	4.3	4.4	4.4	4.4	4.4	4.4	4.3	4.3	4.2	4.3	4.6
67.5°	6.1	6.5	6.6	6.6	6.6	6.5	6.1	5.7	5.4	5.4	5.9
65°	8.6	9.6	9.4	8.8	9.4	9.6	8.6	7.6	6.7	6.5	7.0
62.5°	9.1	9.8	9.9	9.9	9.9	9.8	9.1	8.4	7.6	7.4	7.6
60°	8.5	8.8	8.8	8.8	8.8	8.8	8.5	8.2	7.8	7.7	7.7
57.5°	8.4	8.7	8.8	8.8	8.8	8.7	8.4	8.1	7.7	7.8	7.9
55°	8.3	8.7	8.8	8.8	8.8	8.7	8.3	8.0	7.7	7.9	8.2
52.5°	9.7	9.8	9.9	9.9	9.9	9.8	9.7	9.4	9.0	8.6	8.1
50°	12.2	12.8	12.4	11.0	12.4	12.8	12.2	11.6	11.2	10.8	10.3
47.5°	16.4	15.8	15.4	15.5	15.4	15.8	16.4	16.4	16.0	15.1	13.4
45°	26.7	26.4	26.3	26.5	26.3	26.4	26.7	26.3	25.2	23.8	22.4
42.5°	48.1	48.3	47.5	46.4	47.5	48.3	48.1	46.5	45.0	38.9	31.9
40°	112.3	102.9	90.2	82.8	90.2	102.9	112.3	112.6	106.2	86.3	78.3
37.5°	253.1	260.4	261.1	256.1	261.1	260.4	253.1	241.5	228.9	210.4	192.4
35°	480.8	498.0	499.0	490.1	499.0	498.0	480.8	452.7	408.2	350.0	336.0
32.5°	813.6	852.3	866.8	863.2	866.8	852.3	813.6	814.7	743.6	656.1	603.0
30°	1670.7	1682.3	1563.4	1345.6	1563.4	1682.3	1670.7	1805.9	1515.2	1393.6	1211.0
27.5°	4855.3	5303.4	5465.9	5394.4	5465.9	5303.4	4855.3	4478.9	3785.1	3276.4	2484.3
25°	8643.6	8938.8	9233.6	9267.7	9233.6	8938.8	8643.6	8399.3	7548.9	6201.8	5019.6
22.5°	12843.6	13263.2	13661.4	13570.4	13661.4	13263.2	12843.6	12139.3	11122.2	9619.0	8030.2
20°	17752.0	18041.3	18335.2	18009.9	18335.2	18041.3	17752.0	16701.2	15046.9	13216.5	11065.6
17.5°	24005.3	25367.9	26577.5	26030.3	26577.5	25367.9	24005.3	21850.4	19793.2	17137.1	14516.7
15°	32490.0	34861.5	36252.4	36178.8	36252.4	34861.5	32490.0	29618.2	26568.1	23154.4	19966.5
12.5°	42267.4	44745.7	46165.1	45871.5	46165.1	44745.7	42267.4	38895.2	34542.5	30442.0	26272.4
10°	51088.7	53034.8	54721.4	55382.0	54721.4	53034.8	51088.7	48029.4	43374.7	38123.5	32329.5
7.5°	58880.2	60330.2	61737.0	61988.4	61737.0	60330.2	58880.2	55897.0	51126.8	45172.3	38403.4
5°	65294.1	67348.4	68143.6	68459.0	68143.6	67348.4	65294.1	62293.3	57539.4	51009.5	43304.1
2.5°	70470.6	72349.7	73344.5	73050.9	73344.5	72349.7	70470.6	67462.9	62446.9	55906.1	46929.7
0°	73444.4	74931.8	75744.2	75549.9	75744.2	74931.8	73444.4	70972.4	66150.9	59543.4	49210.5
-2.5°	73737.5	74737.6	75373.1	75123.8	75373.1	74737.6	73737.5	71317.4	66339.1	59212.5	49072.0
-5°	71709.6	72523.5	72857.4	73000.1	72857.4	72523.5	71709.6	69699.7	64662.3	57461.5	46788.3
-7.5°	68915.4	70008.8	69842.4	70130.1	69842.4	70008.8	68915.4	67310.2	62745.9	55463.2	45377.6
-10°	67251.3	68260.3	68114.2	68191.8	68114.2	68260.3	67251.3	65540.1	60194.1	53187.0	42996.7
-12.5°	63213.4	64678.4	64903.3	65155.8	64903.3	64678.4	63213.4	60183.7	55495.6	48147.9	40337.1
-15°	56338.3	57948.1	58921.5	59140.5	58921.5	57948.1	56338.3	53123.8	48226.4	42917.2	36388.8
-17.5°	47649.3	49875.6	51440.7	51804.5	51440.7	49875.6	47649.3	44578.1	40884.0	36835.5	32125.4
-20°	38024.0	39617.7	40428.5	40865.7	40428.5	39617.7	38024.0	35414.7	33278.1	30193.8	27166.9



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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°	29928.3	30980.8	31432.6	31506.4	31432.6	30980.8	29928.3	28483.8	26657.9	24437.0	22029.3
-25°	23381.2	24098.5	24406.0	24860.3	24406.0	24098.5	23381.2	22101.2	20520.6	18860.4	16747.0
-27.5°	18144.6	18775.3	19056.6	19474.7	19056.6	18775.3	18144.6	17204.6	15886.3	14613.2	12951.0
-30°	14198.5	14578.5	14673.4	14694.1	14673.4	14578.5	14198.5	13556.1	12603.7	11534.1	10199.7
-32.5°	11231.0	11659.0	11914.5	12028.3	11914.5	11659.0	11231.0	10676.7	9962.8	9092.3	8093.7
-35°	8713.6	8995.7	9163.7	9352.7	9163.7	8995.7	8713.6	8300.4	7748.5	7093.5	6454.7
-37.5°	6774.6	6983.8	7099.5	7138.4	7099.5	6983.8	6774.6	6469.5	6077.0	5578.5	5096.3
-40°	5407.5	5615.2	5739.9	5758.6	5739.9	5615.2	5407.5	5133.3	4789.7	4347.7	3817.4
-42.5°	4251.0	4509.8	4677.1	4715.5	4677.1	4509.8	4251.0	3943.8	3539.4	3057.0	2481.7
-45°	2755.9	2996.8	3124.2	3116.1	3124.2	2996.8	2755.9	2443.2	2015.6	1530.3	1073.0
-47.5°	1153.0	1191.8	1208.5	1203.2	1208.5	1191.8	1153.0	1098.6	1013.5	909.3	804.2
-50°	848.4	870.4	882.5	885.3	882.5	870.4	848.4	822.4	789.5	748.9	707.0
-52.5°	761.8	770.0	772.8	772.7	772.8	770.0	761.8	754.5	746.0	729.4	709.8
-55°	793.1	810.9	817.8	817.9	817.8	810.9	793.1	774.5	754.4	718.9	680.9
-57.5°	740.0	760.0	769.3	771.6	769.3	760.0	740.0	717.5	692.6	649.7	603.7
-60°	624.3	640.4	647.4	649.0	647.4	640.4	624.3	605.9	585.3	550.3	510.8
-62.5°	502.7	514.9	518.6	517.7	518.6	514.9	502.7	487.9	470.5	442.4	409.0
-65°	371.5	379.9	380.5	377.5	380.5	379.9	371.5	360.9	348.3	329.0	304.4
-67.5°	255.9	261.3	261.5	259.4	261.5	261.3	255.9	248.8	239.9	226.6	208.9
-70°	161.5	165.5	165.8	164.5	165.8	165.5	161.5	156.5	150.5	142.8	132.7
-72.5°	98.2	100.4	102.4	103.8	102.4	100.4	98.2	95.5	92.3	88.3	82.7
-75°	59.4	60.1	60.0	59.6	60.0	60.1	59.4	58.3	56.9	54.8	50.8
-77.5°	34.3	35.0	36.3	37.5	36.3	35.0	34.3	33.6	32.7	31.5	28.8
-80°	19.7	19.8	20.4	21.0	20.4	19.8	19.7	19.5	19.2	18.7	17.3
-82.5°	13.6	14.2	14.3	14.3	14.3	14.2	13.6	13.0	12.3	11.6	10.7
-85°	8.5	8.8	9.3	9.9	9.3	8.8	8.5	8.1	7.8	7.5	6.9
-87.5°	5.2	5.5	5.5	5.5	5.5	5.5	5.2	5.0	4.7	4.4	4.4
-90°	1.4	1.1	0.5	0.0	0.5	1.1	1.4	1.7	1.9	2.2	2.2



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	3.9	3.6	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.5	2.8	3.0	3.3
85°	2.2	2.2	2.2	2.4	2.6	2.8	2.9	3.0	3.0	3.2	3.3
82.5°	2.2	2.2	2.2	2.5	2.8	3.0	3.3	3.3	3.3	3.3	3.3
80°	2.6	2.8	2.9	2.9	3.0	3.2	3.3	3.4	3.3	3.3	3.3
77.5°	2.8	3.1	3.3	3.3	3.3	3.3	3.4	3.6	3.8	3.9	3.9
75°	3.1	3.2	3.3	3.4	3.4	3.3	3.4	3.7	4.0	4.2	4.4
72.5°	3.7	3.7	3.8	4.0	4.0	4.1	4.3	4.5	4.6	4.5	4.4
70°	4.9	5.0	5.3	5.5	5.6	5.8	5.9	6.0	6.1	6.1	5.6
67.5°	6.3	6.7	7.5	8.3	8.7	8.8	8.7	8.1	7.8	7.8	7.0
65°	7.4	7.8	8.4	9.2	10.1	11.1	12.7	12.9	12.2	10.8	8.4
62.5°	8.1	8.7	9.0	9.4	10.1	11.8	15.1	17.0	17.6	15.6	11.9
60°	7.7	7.8	8.3	8.9	9.5	12.7	17.6	21.1	23.1	19.7	14.8
57.5°	7.8	7.8	8.1	8.4	8.7	13.0	18.8	25.0	28.8	22.7	17.0
55°	8.6	8.6	8.5	8.6	9.0	13.1	18.4	24.6	28.2	24.5	18.1
52.5°	7.7	8.4	8.8	8.9	9.7	12.7	16.8	22.5	24.3	21.4	17.6
50°	9.7	9.7	9.6	9.6	10.4	11.9	15.0	19.5	19.6	18.3	15.2
47.5°	12.8	12.6	11.9	11.6	11.9	11.9	13.7	15.9	17.1	15.6	13.3
45°	21.2	18.9	15.8	15.8	15.3	14.7	13.8	16.2	16.9	16.0	12.3
42.5°	35.3	32.6	27.4	25.7	22.8	20.9	18.7	19.8	20.3	18.6	16.8
40°	77.5	59.1	55.1	46.1	38.5	31.7	28.7	25.8	25.8	24.3	23.6
37.5°	169.9	146.6	127.7	96.0	76.0	52.4	43.6	36.7	32.4	35.0	33.6
35°	302.8	275.0	253.5	210.9	148.6	113.0	67.9	52.9	48.9	51.3	47.0
32.5°	465.2	471.1	428.3	372.4	322.6	226.1	145.1	79.5	87.3	82.8	67.9
30°	1033.0	946.7	710.9	720.9	720.9	461.6	268.0	209.5	156.0	128.9	97.9
27.5°	2400.0	2119.7	1627.4	1449.5	1441.2	1030.5	619.7	427.5	273.7	202.2	149.2
25°	4453.5	3978.7	3176.7	2648.2	2384.6	1818.1	1141.9	808.3	520.9	292.6	203.7
22.5°	6780.9	5917.5	4885.7	3873.0	3272.6	2421.3	1700.7	1275.2	798.3	418.9	269.6
20°	9349.0	8007.7	6714.3	5431.3	4170.3	2967.9	2121.3	1739.3	1166.4	591.7	332.9
17.5°	12457.9	10339.7	8957.9	7216.6	5501.4	3874.1	2979.0	2341.9	1627.7	736.7	390.5
15°	16353.5	14107.6	11993.0	9543.8	7319.0	5690.9	4248.1	3139.6	2173.9	1013.8	520.2
12.5°	22458.8	19033.6	15715.0	12505.0	9946.4	7788.8	5876.6	4253.3	2812.0	1508.1	731.6
10°	28008.5	23823.3	19632.5	15959.1	12810.8	10025.2	7397.2	5135.2	3367.3	2007.6	962.9
7.5°	32528.2	27800.7	23343.4	18809.2	14961.1	11542.2	8447.1	5872.1	3837.3	2458.4	1203.6
5°	36153.2	30567.4	25472.6	20201.1	16310.9	12897.1	9389.9	6535.9	4224.4	2853.7	1442.0
2.5°	38407.4	32307.8	27007.0	21219.3	17300.2	13984.9	10210.7	7108.7	4551.9	3163.8	1649.8
0°	39733.1	33475.6	28016.1	21896.5	17859.8	14569.3	10885.9	7560.1	4817.1	3399.8	1831.2
-2.5°	39431.8	32668.5	27077.2	20910.3	16821.7	13573.7	10232.1	7390.7	5067.6	3451.1	1764.2
-5°	36874.1	30527.5	25343.0	19918.9	15873.2	12789.9	9738.3	7254.2	5201.8	3422.8	1661.9
-7.5°	35812.0	29007.3	23509.4	18547.5	14822.2	12018.8	9355.7	7168.6	5201.8	3375.6	1684.5
-10°	34148.1	28102.9	22861.5	18036.4	14281.6	11226.3	8938.5	6994.6	5094.1	3231.8	1644.7
-12.5°	32800.0	27036.5	22003.0	17564.8	14304.6	11227.1	8811.5	6777.3	4874.5	2989.2	1532.1
-15°	30818.7	26007.5	21159.8	17136.1	14069.7	11057.9	8606.5	6515.3	4401.5	2591.8	1339.1
-17.5°	27744.9	24099.3	19605.3	15689.1	12823.8	10560.4	8204.8	5914.1	3740.8	2077.4	1033.8
-20°	24006.4	20687.2	17048.2	13692.1	10990.1	8844.9	7242.9	4968.7	3000.0	1639.0	917.1



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	19888.7	16955.4	13784.1	11123.6	8879.1	7080.5	5542.2	3746.5	2167.3	1158.8	793.9
-25°	15301.3	13050.3	10510.2	8774.0	6858.8	5180.1	4053.0	2735.2	1591.1	855.5	672.8
-27.5°	11570.5	9583.4	8218.8	6917.0	5403.7	4034.7	2930.9	1847.7	1026.4	731.4	594.9
-30°	8838.0	7736.8	6705.9	5715.5	4477.7	3216.1	2000.5	1241.2	786.3	626.8	539.7
-32.5°	7059.3	6335.7	5549.6	4654.6	3501.3	2268.4	1387.5	806.0	655.2	571.9	517.0
-35°	5795.8	5128.4	4373.0	3426.9	2328.7	1474.7	850.0	687.9	586.9	529.5	502.9
-37.5°	4552.3	3898.6	3057.9	2156.6	1400.4	868.3	719.2	614.2	541.8	514.3	475.3
-40°	3231.9	2527.0	1828.2	1135.0	858.3	724.7	635.5	562.8	530.7	489.6	440.2
-42.5°	1890.8	1284.7	942.1	813.6	705.1	640.0	580.4	548.8	508.2	454.8	393.5
-45°	956.4	843.9	739.7	686.5	628.4	593.2	563.3	519.4	468.9	408.3	342.5
-47.5°	749.2	706.0	658.8	629.2	604.2	572.3	524.3	474.8	417.2	357.4	302.7
-50°	678.5	662.7	642.1	611.9	569.2	525.1	472.7	417.5	364.7	313.7	263.3
-52.5°	684.1	646.8	607.1	564.2	512.2	461.0	410.1	364.1	317.3	270.7	226.0
-55°	640.2	592.4	542.7	490.8	438.5	395.7	353.2	311.7	269.8	227.3	192.2
-57.5°	556.7	510.4	465.2	419.1	372.4	334.2	297.6	259.6	224.6	191.8	159.6
-60°	471.1	431.1	389.4	349.4	311.7	277.2	244.6	213.5	184.1	155.3	126.6
-62.5°	375.6	342.5	309.6	278.1	248.3	220.1	192.8	166.8	142.2	118.1	96.7
-65°	278.8	252.6	227.7	205.6	183.8	162.4	140.0	121.1	104.1	86.9	69.5
-67.5°	190.5	171.7	154.0	138.3	125.5	112.4	97.9	83.3	72.1	62.5	52.0
-70°	122.0	110.9	100.4	90.1	81.7	74.5	66.5	58.2	50.1	42.9	35.4
-72.5°	76.6	70.3	64.2	58.7	52.9	47.8	42.5	36.8	31.1	25.4	20.6
-75°	46.6	42.0	37.6	34.0	30.0	25.8	22.9	20.6	18.3	15.8	13.2
-77.5°	26.2	23.5	21.2	19.5	17.8	15.9	14.0	12.3	11.2	10.2	9.4
-80°	15.8	14.3	12.9	11.9	11.0	10.1	9.2	8.5	7.9	7.6	7.3
-82.5°	9.7	8.8	7.9	7.5	7.1	6.8	6.5	6.3	6.1	6.0	5.8
-85°	6.3	5.8	5.3	5.3	5.2	5.2	5.1	5.0	5.0	4.9	4.9
-87.5°	4.4	4.3	4.3	4.3	4.3	4.2	4.2	4.2	4.1	4.1	4.1
-90°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.5	2.8	3.0	3.3



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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°	3.6	3.9	4.1	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
87.5°	3.5	3.7	3.8	3.9	4.0	4.1	4.3	4.4	4.4	4.4	4.4
85°	3.6	3.9	4.1	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
82.5°	3.6	3.9	4.2	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
80°	3.6	3.9	4.2	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
77.5°	3.9	4.0	4.2	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
75°	4.4	4.3	4.3	4.4	4.5	4.4	4.4	4.4	4.5	4.4	4.4
72.5°	4.4	4.4	4.4	4.5	4.7	4.7	4.6	4.5	4.6	4.6	4.5
70°	5.0	4.5	4.4	4.6	4.9	5.1	5.0	4.9	4.8	4.9	4.7
67.5°	6.1	5.4	4.8	4.7	4.9	5.2	5.4	5.2	5.1	5.1	5.0
65°	7.4	6.4	5.5	5.2	5.1	5.2	5.5	5.5	5.3	5.3	5.3
62.5°	9.2	7.7	6.6	5.8	5.4	5.3	5.5	5.5	5.5	5.4	5.4
60°	11.1	8.7	7.6	6.7	5.9	5.5	5.5	5.5	5.5	5.5	5.5
57.5°	12.4	9.1	8.2	7.4	6.5	5.8	5.5	5.5	5.5	5.5	5.5
55°	12.9	9.5	8.7	7.9	7.1	6.3	5.7	5.5	5.5	5.5	5.5
52.5°	12.5	10.0	9.2	8.3	7.5	6.7	6.1	5.5	5.5	5.5	5.5
50°	11.1	10.7	9.7	8.8	7.9	7.1	6.5	5.8	5.5	5.5	5.5
47.5°	11.3	11.3	10.5	9.3	8.3	7.6	6.9	6.2	5.5	5.5	5.5
45°	12.8	12.2	11.4	10.1	8.7	8.0	7.3	6.6	5.8	5.5	5.5
42.5°	15.5	14.5	12.7	11.0	9.7	8.4	7.7	6.9	6.1	5.6	5.5
40°	21.5	18.2	14.8	13.6	11.0	8.8	8.0	7.2	6.4	5.8	5.6
37.5°	28.9	24.2	19.2	19.1	13.6	10.2	8.4	7.5	6.8	6.1	5.7
35°	39.9	32.1	28.3	27.2	20.6	11.8	8.7	7.8	7.2	6.4	5.9
32.5°	52.6	47.0	43.5	36.7	29.8	13.5	9.7	8.4	7.6	6.7	6.0
30°	77.1	73.8	63.2	47.1	40.2	21.8	11.4	9.0	8.0	7.0	6.2
27.5°	115.2	106.9	87.8	64.5	49.9	32.1	13.6	9.7	8.5	7.3	6.4
25°	155.8	142.2	119.9	86.7	60.2	42.8	15.9	10.6	9.1	7.7	6.7
22.5°	204.4	175.6	156.3	111.5	73.2	53.8	21.5	12.4	9.7	8.1	6.9
20°	249.2	207.5	195.2	135.9	91.8	64.1	30.3	14.4	10.4	8.5	7.1
17.5°	292.7	249.9	225.1	164.8	112.2	75.8	38.9	16.3	11.0	8.8	7.3
15°	374.5	308.9	260.1	194.0	131.3	88.5	47.3	18.2	11.7	9.2	7.4
12.5°	468.3	371.5	300.6	223.1	149.3	101.8	55.2	20.1	12.4	9.6	7.5
10°	565.5	436.4	344.9	251.6	165.9	115.4	62.6	22.6	13.4	9.9	7.6
7.5°	663.6	502.0	391.4	278.7	184.5	136.0	79.7	26.7	14.5	10.2	7.6
5°	753.5	563.8	440.2	321.3	220.1	163.9	98.7	30.8	15.6	10.5	7.7
2.5°	809.2	617.5	487.1	363.7	254.8	190.9	117.4	34.8	16.7	10.8	7.7
0°	856.6	666.7	529.8	402.9	288.1	216.3	134.7	38.6	17.7	11.0	7.7
-2.5°	857.3	668.1	544.2	440.2	325.0	243.6	155.9	49.9	24.2	14.0	8.7
-5°	850.4	666.1	557.0	474.1	359.1	268.5	174.2	60.5	30.5	16.8	9.7
-7.5°	867.0	673.0	568.8	501.1	390.0	290.6	189.0	70.2	36.2	19.4	10.6
-10°	878.3	681.7	576.5	499.6	390.2	296.9	197.5	78.6	41.2	21.7	11.5
-12.5°	874.6	683.5	581.3	493.1	382.1	289.1	189.9	84.4	45.5	23.5	12.2
-15°	854.3	677.5	583.1	481.1	370.7	279.7	180.8	88.4	49.1	25.3	12.8
-17.5°	804.6	663.2	581.6	463.1	355.7	269.0	170.8	91.1	51.8	27.1	13.7
-20°	729.1	630.4	573.6	438.9	337.1	257.1	160.0	92.3	53.4	28.2	14.7



REPORT NUMBER: P701356 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-5S-CV2-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	658.5	590.7	527.2	415.0	317.8	244.2	149.0	92.0	53.9	28.7	15.4
-25°	587.5	553.7	479.7	383.5	300.9	228.0	142.8	90.1	53.1	28.3	15.8
-27.5°	539.8	514.9	436.3	351.0	280.1	212.5	139.9	89.1	51.8	27.2	15.8
-30°	504.8	468.4	398.3	320.0	257.3	191.5	135.0	86.4	50.5	26.6	15.5
-32.5°	483.6	428.8	360.8	293.3	232.6	170.1	124.3	82.1	48.0	26.3	15.3
-35°	453.8	392.1	323.9	264.4	207.6	154.3	111.1	76.0	44.4	25.3	14.8
-37.5°	421.7	353.8	290.7	235.3	182.4	137.2	99.1	67.0	39.7	23.9	14.1
-40°	378.0	315.5	257.8	207.8	161.0	118.8	86.4	58.7	36.5	21.8	13.1
-42.5°	332.5	278.8	228.2	180.9	139.6	104.0	73.4	50.0	32.8	20.0	11.8
-45°	292.0	243.3	199.2	157.5	118.0	88.7	63.3	41.5	28.6	18.2	10.7
-47.5°	252.2	211.2	171.8	133.6	100.8	73.9	52.9	36.5	24.2	15.9	10.0
-50°	217.1	180.7	145.9	113.2	83.6	62.1	43.3	31.1	21.0	13.1	9.3
-52.5°	186.6	153.0	122.0	93.1	69.9	49.9	36.9	25.6	17.5	11.5	8.4
-55°	158.0	126.4	98.5	75.9	56.4	41.6	30.3	21.4	13.8	10.3	7.6
-57.5°	129.1	99.8	79.0	60.2	45.7	34.0	24.4	16.8	11.8	9.0	7.4
-60°	100.3	79.4	61.0	48.1	36.8	26.9	18.9	13.0	10.3	7.9	7.1
-62.5°	76.9	60.0	48.4	37.7	28.4	20.3	13.8	11.1	8.6	7.6	6.9
-65°	57.7	46.7	36.6	28.1	20.3	14.5	11.6	9.2	8.0	7.3	6.6
-67.5°	42.0	33.6	25.6	18.3	14.4	11.7	9.3	8.3	7.7	7.0	6.3
-70°	27.9	20.8	16.5	13.6	11.1	9.1	8.5	7.9	7.3	6.7	6.1
-72.5°	17.3	14.4	11.8	9.7	9.0	8.4	7.9	7.5	6.9	6.4	5.8
-75°	10.9	9.9	9.2	8.6	8.1	7.7	7.4	7.1	6.5	6.0	5.7
-77.5°	8.8	8.2	7.8	7.5	7.3	7.1	6.9	6.7	6.2	5.9	5.6
-80°	7.1	7.0	6.9	6.9	6.8	6.6	6.4	6.2	5.9	5.7	5.5
-82.5°	5.8	6.0	6.2	6.3	6.2	6.0	5.9	5.8	5.6	5.5	5.4
-85°	5.1	5.3	5.5	5.7	5.6	5.5	5.4	5.3	5.2	5.2	5.1
-87.5°	4.3	4.6	4.8	5.0	5.0	4.9	4.9	4.9	4.8	4.8	4.7
-90°	3.3	3.3	3.3	3.3	3.6	3.9	4.1	4.4	4.4	4.4	4.4



REPORT NUMBER: P701356 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	4.4	4.4	4.4	4.4	4.4	4.4	4.4
87.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4
85°	4.4	4.4	4.4	4.4	4.4	4.4	4.4
82.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4
80°	4.4	4.4	4.4	4.4	4.4	4.4	4.4
77.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4
75°	4.4	4.4	4.4	4.4	4.4	4.4	4.4
72.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4
70°	4.4	4.4	4.4	4.4	4.4	4.4	4.4
67.5°	4.7	4.4	4.4	4.4	4.4	4.4	4.4
65°	5.0	4.5	4.4	4.4	4.4	4.4	4.4
62.5°	5.2	4.7	4.4	4.4	4.4	4.4	4.4
60°	5.5	4.9	4.4	4.4	4.4	4.4	4.4
57.5°	5.5	5.1	4.6	4.4	4.4	4.4	4.4
55°	5.5	5.3	4.7	4.4	4.4	4.4	4.4
52.5°	5.5	5.5	4.9	4.4	4.4	4.4	4.4
50°	5.5	5.5	5.0	4.4	4.4	4.4	4.4
47.5°	5.5	5.5	5.2	4.4	4.4	4.4	4.4
45°	5.5	5.5	5.3	4.5	4.4	4.4	4.4
42.5°	5.5	5.5	5.4	4.6	4.4	4.4	4.4
40°	5.5	5.5	5.5	4.7	4.4	4.4	4.4
37.5°	5.5	5.5	5.5	4.8	4.4	4.4	4.4
35°	5.5	5.5	5.5	4.8	4.4	4.4	4.4
32.5°	5.5	5.5	5.5	4.9	4.4	4.4	4.4
30°	5.6	5.5	5.5	4.9	4.4	4.4	4.4
27.5°	5.8	5.5	5.5	4.9	4.4	4.4	4.4
25°	5.9	5.5	5.4	4.9	4.4	4.4	4.4
22.5°	6.0	5.5	5.4	4.9	4.4	4.4	4.4
20°	6.2	5.5	5.4	4.9	4.4	4.4	4.4
17.5°	6.3	5.5	5.4	4.8	4.4	4.4	4.4
15°	6.4	5.5	5.4	4.8	4.4	4.4	4.4
12.5°	6.4	5.5	5.4	4.7	4.4	4.4	4.4
10°	6.5	5.5	5.5	4.7	4.4	4.4	4.4
7.5°	6.5	5.5	5.5	4.6	4.4	4.4	4.4
5°	6.6	5.5	5.5	4.5	4.4	4.4	4.4
2.5°	6.6	5.5	5.5	4.5	4.4	4.4	4.4
0°	6.6	5.5	5.5	4.4	4.4	4.4	4.4
-2.5°	7.0	5.7	5.5	4.5	4.4	4.4	4.4
-5°	7.5	6.0	5.5	4.5	4.4	4.4	4.4
-7.5°	7.8	6.2	5.5	4.6	4.4	4.4	4.4
-10°	8.2	6.4	5.5	4.7	4.4	4.4	4.4
-12.5°	8.5	6.6	5.4	4.7	4.4	4.4	4.4
-15°	8.8	6.7	5.4	4.8	4.4	4.4	4.4
-17.5°	9.0	6.8	5.4	4.8	4.4	4.4	4.4
-20°	9.3	6.8	5.4	4.9	4.4	4.4	4.4



REPORT NUMBER: P701356 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-5S-CV2-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	9.7	6.8	5.4	4.9	4.4	4.4	4.4
-25°	9.8	6.8	5.4	4.9	4.4	4.4	4.4
-27.5°	9.8	6.7	5.5	4.9	4.4	4.4	4.4
-30°	9.7	6.6	5.5	4.9	4.4	4.4	4.4
-32.5°	9.3	6.4	5.6	4.9	4.4	4.4	4.4
-35°	9.0	6.2	5.6	4.8	4.4	4.4	4.4
-37.5°	8.8	6.1	5.6	4.8	4.4	4.4	4.4
-40°	8.4	6.1	5.7	4.7	4.4	4.4	4.4
-42.5°	8.0	6.1	5.6	4.6	4.4	4.4	4.4
-45°	7.5	6.2	5.5	4.6	4.4	4.4	4.4
-47.5°	7.0	6.1	5.4	4.5	4.4	4.4	4.4
-50°	6.8	6.1	5.3	4.5	4.4	4.4	4.4
-52.5°	6.8	6.1	5.2	4.5	4.4	4.4	4.4
-55°	6.6	5.9	5.1	4.5	4.4	4.4	4.4
-57.5°	6.5	5.8	4.9	4.5	4.4	4.4	4.4
-60°	6.4	5.6	4.8	4.6	4.4	4.4	4.4
-62.5°	6.1	5.4	4.8	4.6	4.4	4.4	4.4
-65°	5.9	5.2	4.8	4.6	4.4	4.4	4.4
-67.5°	5.7	5.1	4.9	4.6	4.4	4.4	4.4
-70°	5.4	5.1	4.9	4.6	4.4	4.4	4.4
-72.5°	5.4	5.2	4.9	4.6	4.4	4.4	4.4
-75°	5.4	5.2	4.9	4.6	4.4	4.4	4.4
-77.5°	5.5	5.2	4.9	4.6	4.4	4.4	4.4
-80°	5.5	5.1	4.8	4.5	4.4	4.4	4.4
-82.5°	5.2	4.9	4.7	4.5	4.4	4.4	4.4
-85°	5.0	4.8	4.6	4.5	4.4	4.4	4.4
-87.5°	4.7	4.6	4.5	4.4	4.4	4.4	4.4
-90°	4.4	4.4	4.4	4.4	4.4	4.4	4.4

(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

