

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: P731438 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-80-4S-CV1**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731438 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-27)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-57-80-4S-CV1
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 4S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

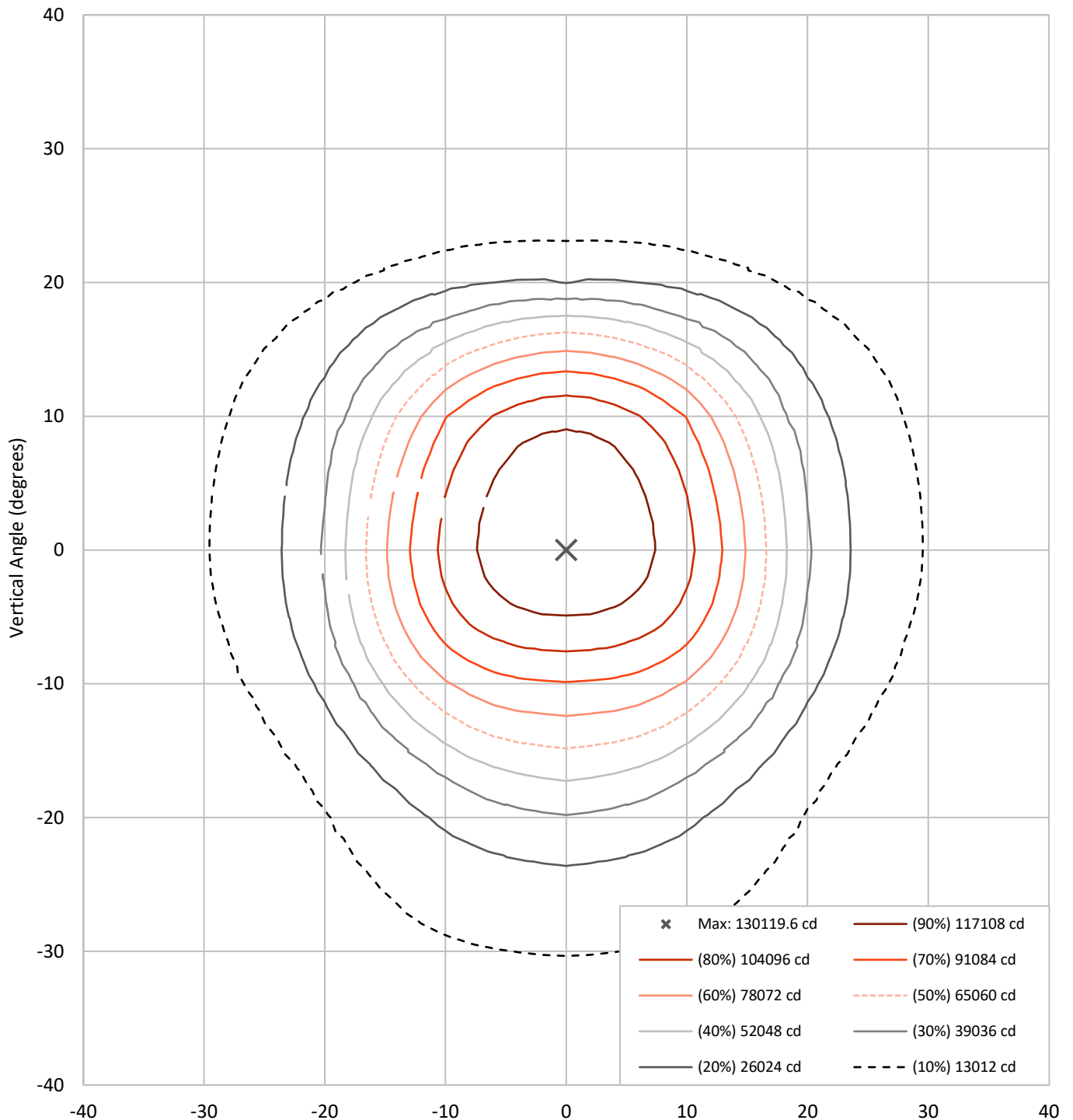
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	44334.4 lumens	Max Intensity:	130119.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	128.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	33.1°H x 31.1°V	Field Angle (10%):	59.1°H x 53.4°V
Beam Lumens:	24230.5 lumens	Field Lumens:	39043.2 lumens
Beam Efficiency:	54.7%	Field Efficiency:	88.1%

Input Watts (W): 345.8
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





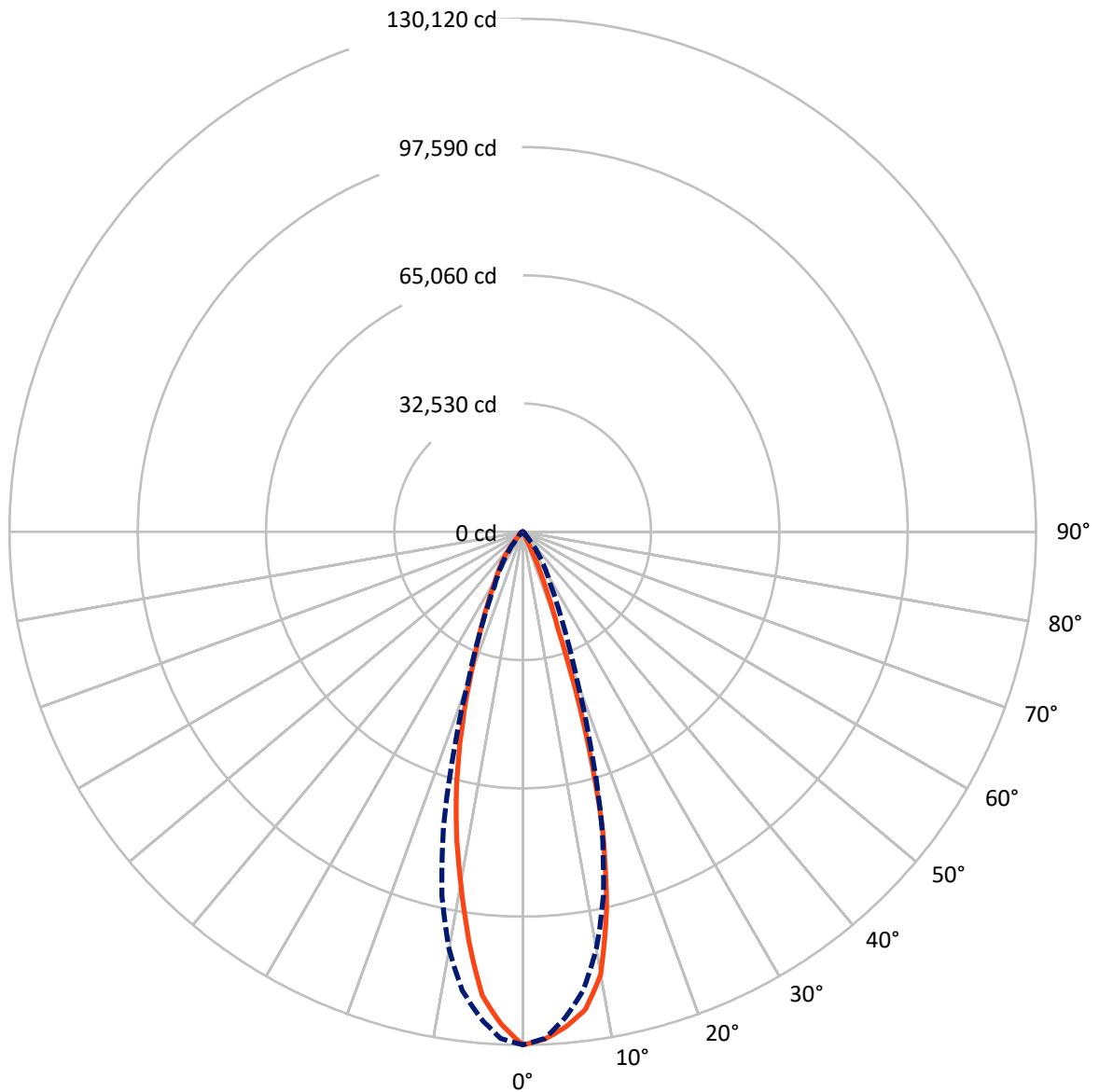
REPORT NUMBER: P731438 (CONVERTED FROM TYPE C PHOTOMETRY)
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Lumen Table

90															
80	0.0	0.1		0.2		0.2		0.2		0.2		0.1		0.0	
70															
60	0.0	0.0	0.1	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.1	0.0
50		0.0	0.1	0.5	0.4	0.2	0.1	0.2	0.2	0.1	0.2	0.4	0.5	0.1	0.0
40	0.0	0.1	0.2	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.2	0.1
30		0.1	0.5	1.3	2.4	4.2	6.3	7.8	7.8	6.3	4.2	2.4	1.3	0.5	0.1
20	0.1	0.2	2.2	6.7	26.3	82.2	164.5	267.2	267.2	164.5	82.2	26.3	6.7	2.2	0.2
10		0.7	4.9	16.1	108.8	371.5	1108.6	2066.9	2066.9	1108.6	371.5	108.8	16.1	4.9	0.7
0	0.1	1.1	6.8	23.0	169.5	603.6	2069.7	3545.0	3545.0	2069.7	603.6	169.5	23.0	6.8	1.1
-10		1.4	7.2	23.6	167.3	582.2	2003.3	3299.8	3299.8	2003.3	582.2	167.3	23.6	7.2	1.4
-20	0.3	1.7	6.9	18.2	99.4	329.0	1011.0	1802.1	1802.1	1011.0	329.0	99.4	18.2	6.9	1.7
-30		1.7	6.6	14.0	46.8	178.3	410.8	655.4	655.4	410.8	178.3	46.8	14.0	6.6	1.7
-40	0.2	1.4	6.0	12.0	23.1	66.3	165.9	252.0	252.0	165.9	66.3	23.1	12.0	6.0	1.4
-50		0.9	4.3	10.3	17.3	26.4	40.1	54.4	54.4	40.1	26.4	17.3	10.3	4.3	0.9
-60	0.1	0.5	2.2	6.7	13.0	18.7	24.0	27.5	27.5	24.0	18.7	13.0	6.7	2.2	0.5
-70		0.2	0.8	2.4	5.2	8.7	12.3	14.2	14.2	12.3	8.7	5.2	2.4	0.8	0.2
-80	0.1	0.4		1.6		4.2		5.5		4.2		1.6		0.4	0.1
-90															

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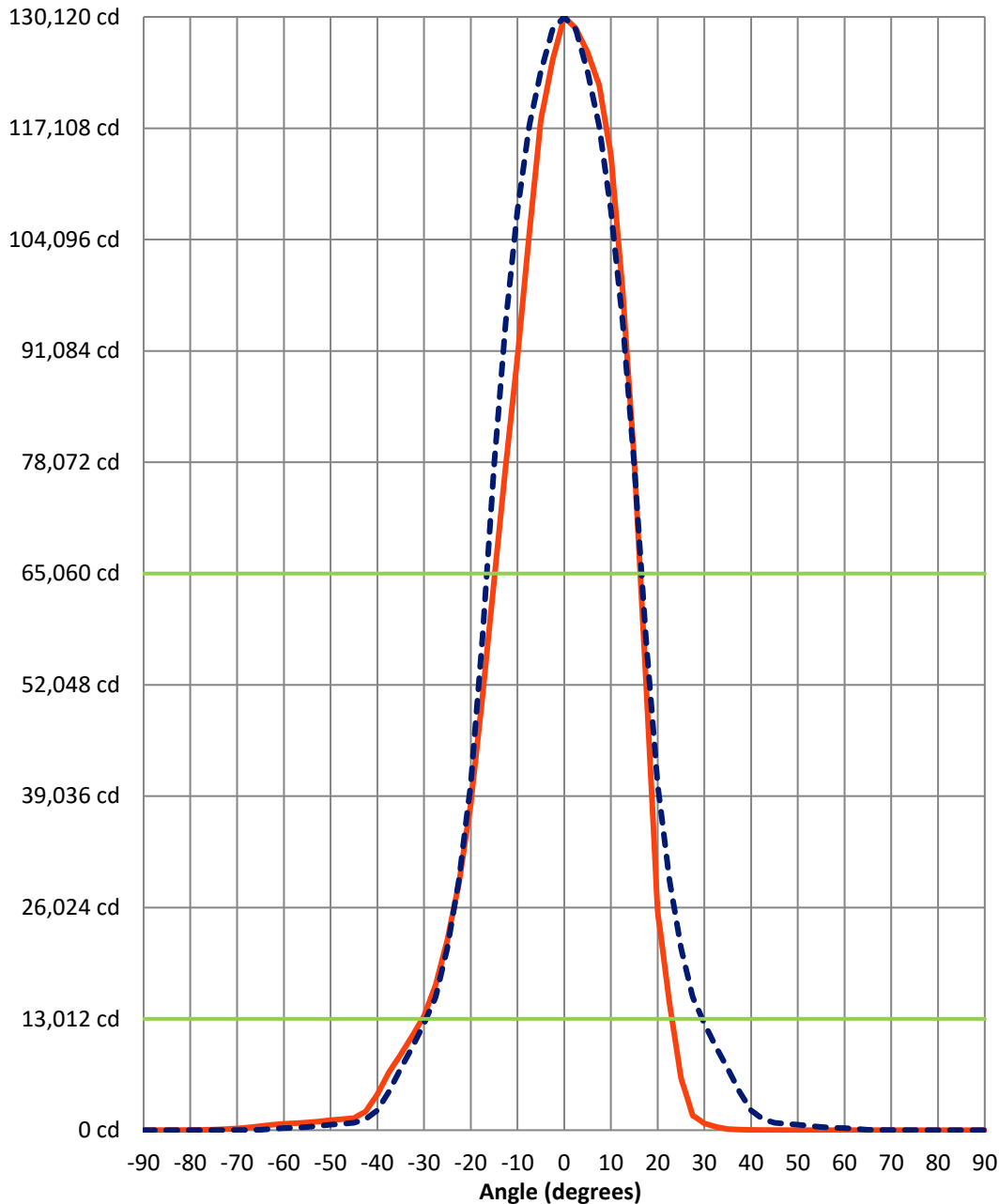
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 33.1°
 V Angle: 31.1°
 Lumens: 24230.5
 Efficiency: 54.7%

Field:
 H Angle: 59.1°
 V Angle: 53.4°
 Lumens: 39043.2
 Efficiency: 88.1%

Spill:
 Lumens: 5291.2
 Efficiency: 11.9%

— 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°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
87.5°	2.2	1.7	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1
85°	2.2	1.7	1.3	1.3	1.3	1.2	1.1	1.1	1.1	1.1	1.1
82.5°	2.2	1.7	1.4	1.4	1.4	1.3	1.1	1.1	1.1	1.1	1.1
80°	2.2	1.8	1.5	1.5	1.5	1.4	1.2	1.3	1.3	1.3	1.1
77.5°	2.2	1.8	1.6	1.6	1.6	1.5	1.4	1.5	1.5	1.4	1.3
75°	2.2	1.8	1.7	1.8	1.7	1.6	1.7	1.8	1.7	1.7	1.7
72.5°	2.2	1.8	1.8	1.9	1.8	1.8	2.0	2.0	1.9	1.9	2.1
70°	2.2	1.9	1.9	2.0	1.9	2.0	2.2	2.1	2.1	2.2	2.2
67.5°	2.2	1.9	2.0	2.0	2.0	2.1	2.2	2.2	2.2	2.2	2.2
65°	2.2	1.9	2.0	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2
62.5°	2.2	1.9	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2
60°	2.2	2.0	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2
57.5°	2.2	2.0	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2
55°	2.2	2.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
52.5°	2.2	2.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
50°	2.2	2.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.9
47.5°	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.7
45°	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.8	4.4
42.5°	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.3	3.5	5.3
40°	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.3	2.6	4.1	6.3
37.5°	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.5	3.2	4.8	7.3
35°	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.6	3.7	5.7	8.1
32.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.8	4.3	6.6	8.9
30°	2.2	2.2	2.2	2.2	2.2	2.2	2.4	3.0	4.8	7.4	9.9
27.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.5	3.4	5.3	8.1	11.0
25°	2.2	2.2	2.2	2.2	2.2	2.2	2.6	3.8	5.9	9.0	12.3
22.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.8	4.2	6.5	9.9	15.0
20°	2.2	2.2	2.2	2.2	2.2	2.3	2.9	4.5	7.1	11.0	17.9
17.5°	2.2	2.2	2.2	2.2	2.2	2.4	3.1	4.8	7.6	12.0	20.9
15°	2.2	2.2	2.2	2.2	2.2	2.5	3.4	5.2	8.0	13.1	24.1
12.5°	2.2	2.2	2.2	2.2	2.2	2.7	3.6	5.7	8.7	14.1	27.3
10°	2.2	2.2	2.2	2.2	2.2	2.8	3.8	6.2	9.7	16.0	30.6
7.5°	2.2	2.2	2.2	2.2	2.2	3.0	4.0	6.6	10.7	18.1	34.1
5°	2.2	2.2	2.2	2.2	2.2	3.1	4.2	7.1	11.7	20.0	37.3
2.5°	2.2	2.2	2.2	2.2	2.2	3.3	4.3	7.5	12.6	21.9	40.2
0°	2.2	2.2	2.2	2.2	2.2	3.4	4.5	7.9	13.5	23.6	42.7
-2.5°	2.2	2.2	2.2	2.2	2.3	3.8	5.5	10.0	18.1	31.9	55.0
-5°	2.2	2.2	2.2	2.2	2.4	4.1	6.6	12.0	22.6	39.8	66.8
-7.5°	2.2	2.2	2.2	2.2	2.5	4.4	7.5	13.9	26.7	47.1	77.6
-10°	2.2	2.2	2.2	2.2	2.6	4.7	8.4	15.6	30.3	53.7	87.5
-12.5°	2.2	2.2	2.2	2.2	2.7	4.9	9.1	17.1	33.4	59.4	96.2
-15°	2.2	2.2	2.2	2.2	2.7	5.1	9.8	18.4	36.0	63.8	103.4
-17.5°	2.2	2.2	2.2	2.2	2.8	5.3	10.3	19.6	37.9	67.0	108.7
-20°	2.2	2.2	2.2	2.2	2.8	5.3	10.7	20.6	39.1	69.1	111.9



REPORT NUMBER: P731438 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-4S-CV1

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	2.2	2.2	2.2	2.2	2.8	5.4	11.1	21.3	39.6	69.8	112.9
-25°	2.2	2.2	2.2	2.2	2.8	5.4	11.2	21.6	39.2	69.1	111.5
-27.5°	2.2	2.2	2.2	2.2	2.8	5.4	11.2	21.5	37.9	67.6	110.5
-30°	2.2	2.2	2.2	2.2	2.8	5.3	10.9	20.9	37.0	66.0	107.7
-32.5°	2.2	2.2	2.2	2.2	2.8	5.1	10.3	20.4	36.3	63.2	102.8
-35°	2.2	2.2	2.2	2.2	2.8	4.8	9.9	19.8	34.9	59.0	95.9
-37.5°	2.2	2.2	2.2	2.2	2.8	4.5	9.6	18.7	33.0	53.6	87.4
-40°	2.2	2.2	2.2	2.2	2.8	4.5	9.0	17.3	30.3	49.8	78.8
-42.5°	2.2	2.2	2.2	2.2	2.8	4.5	8.3	15.4	27.9	45.4	69.0
-45°	2.2	2.2	2.2	2.2	2.8	4.4	7.4	13.7	25.4	40.4	58.7
-47.5°	2.2	2.2	2.2	2.3	2.9	4.3	6.4	12.5	22.3	34.9	52.5
-50°	2.2	2.2	2.2	2.3	2.9	4.1	6.0	11.0	18.5	30.4	45.7
-52.5°	2.2	2.2	2.2	2.3	2.8	3.9	5.8	9.3	15.6	25.4	38.4
-55°	2.2	2.2	2.2	2.3	2.8	3.8	5.5	7.6	13.3	19.9	32.0
-57.5°	2.2	2.2	2.2	2.3	2.7	3.7	5.2	7.2	10.8	16.4	25.0
-60°	2.2	2.2	2.2	2.3	2.6	3.5	4.9	6.7	8.6	13.4	18.9
-62.5°	2.2	2.2	2.2	2.3	2.6	3.3	4.6	6.2	7.9	10.3	15.3
-65°	2.2	2.2	2.2	2.3	2.5	3.1	4.2	5.6	7.2	8.9	11.7
-67.5°	2.2	2.2	2.2	2.2	2.5	2.9	3.8	5.1	6.4	8.0	9.8
-70°	2.2	2.2	2.2	2.2	2.4	2.8	3.4	4.5	5.8	7.1	8.6
-72.5°	2.2	2.2	2.2	2.2	2.3	2.6	3.1	3.9	5.1	6.3	7.5
-75°	2.2	2.2	2.2	2.2	2.2	2.4	2.8	3.5	4.4	5.5	6.6
-77.5°	2.2	2.2	2.2	2.2	2.2	2.3	2.5	3.1	3.9	4.8	5.7
-80°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.8	3.4	4.1	4.8
-82.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.5	2.8	3.4	4.0
-85°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.4	2.6	2.9	3.2
-87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.4	2.5	2.7
-90°	2.2	1.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1



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 CATALOG NUMBER: EPH-LS-08-0320N-57-80-4S-CV1

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.3	1.4	1.5
80°	1.1	1.1	1.1	1.1	1.2	1.4	1.6	2.0	2.1	2.2	2.2
77.5°	1.4	1.4	1.3	1.2	1.3	1.6	1.8	2.1	2.2	2.2	2.2
75°	1.8	1.7	1.5	1.2	1.3	1.5	1.8	2.1	2.2	2.2	2.2
72.5°	2.0	1.8	1.5	1.2	1.4	1.8	2.1	2.2	2.7	3.4	3.8
70°	2.1	1.8	1.7	1.8	2.0	2.4	3.4	4.7	5.9	6.3	6.8
67.5°	2.1	2.0	2.0	2.3	3.1	4.2	5.6	7.4	9.1	9.8	10.5
65°	2.2	2.2	2.5	3.2	4.4	6.1	8.0	10.1	13.1	14.7	15.4
62.5°	2.2	2.4	3.0	4.2	6.1	8.1	10.7	14.0	18.1	20.7	20.6
60°	2.2	2.5	3.7	5.6	7.7	10.1	13.4	18.1	23.8	27.9	25.2
57.5°	2.2	3.0	4.8	6.9	9.1	11.8	16.4	22.1	27.4	32.9	28.2
55°	2.5	3.8	5.8	8.0	10.6	13.9	18.4	22.9	28.6	30.8	25.7
52.5°	3.4	4.7	6.6	9.2	12.4	15.0	17.5	21.5	23.7	24.7	21.2
50°	4.3	5.7	7.4	10.6	13.4	14.8	15.2	17.7	18.7	17.8	16.2
47.5°	5.2	6.7	8.5	11.6	13.5	14.2	13.7	14.1	14.1	13.9	11.7
45°	6.2	7.9	9.9	12.0	13.4	13.3	13.0	11.4	12.9	12.5	11.5
42.5°	7.3	9.1	11.1	12.5	12.8	13.5	13.4	13.9	13.9	14.6	15.7
40°	8.2	10.1	12.4	13.4	13.1	15.1	18.2	19.7	17.7	21.3	24.5
37.5°	9.1	11.5	14.5	16.8	15.5	20.0	24.9	32.9	34.0	31.6	40.3
35°	9.8	13.1	19.2	24.5	25.9	28.0	41.8	54.5	62.3	57.7	64.4
32.5°	11.0	14.8	25.6	37.3	46.5	49.1	63.7	90.1	105.5	108.2	103.8
30°	12.9	20.9	35.3	53.4	74.0	92.5	105.3	135.5	160.8	188.2	204.6
27.5°	15.8	28.7	50.8	78.8	109.9	144.5	173.3	196.6	242.7	289.5	329.7
25°	19.2	44.6	68.5	110.6	160.0	207.8	247.8	283.5	344.2	417.3	539.5
22.5°	27.5	65.0	98.0	146.3	215.7	276.2	330.1	385.7	459.8	558.3	813.9
20°	42.4	90.5	131.7	183.1	273.2	347.5	415.9	485.8	578.8	784.9	1345.7
17.5°	59.5	117.1	164.1	223.7	316.0	410.5	504.5	581.4	694.0	998.2	1931.2
15°	78.4	144.4	193.4	260.8	356.7	459.4	564.4	674.6	846.2	1282.5	2487.0
12.5°	98.3	172.1	219.8	294.5	394.8	506.0	612.5	731.8	983.7	1713.7	3194.2
10°	118.6	199.7	243.6	324.8	430.2	549.6	655.4	780.0	1091.3	1989.8	3688.1
7.5°	131.6	219.2	263.0	351.7	462.5	589.9	693.4	819.7	1182.5	2165.0	4033.2
5°	141.4	229.2	269.4	363.8	483.7	619.3	722.8	851.6	1256.0	2250.7	4271.8
2.5°	148.9	237.1	274.6	371.1	496.7	633.1	731.6	863.6	1286.5	2302.5	4437.0
0°	154.0	242.7	278.7	375.3	505.7	641.7	736.1	869.8	1291.2	2317.2	4517.6
-2.5°	162.4	247.2	287.1	382.9	510.5	644.4	739.8	874.7	1310.1	2386.5	4640.7
-5°	168.6	249.8	294.2	387.6	511.2	642.4	739.8	873.5	1299.2	2362.4	4485.4
-7.5°	172.8	250.9	299.9	389.2	504.4	628.3	724.8	848.6	1231.0	2210.5	4063.5
-10°	175.8	254.5	307.0	386.8	489.4	605.5	703.5	818.4	1143.2	1997.1	3574.7
-12.5°	180.5	260.5	313.9	383.3	473.8	579.2	678.9	783.3	1036.7	1722.1	3022.2
-15°	182.9	265.4	320.3	379.3	458.5	550.1	650.9	743.7	917.4	1390.4	2408.8
-17.5°	182.9	269.5	326.4	375.2	444.3	518.5	622.9	715.0	833.3	1186.4	1981.2
-20°	180.6	273.0	332.4	371.5	432.5	498.8	600.1	694.8	798.9	1033.7	1557.0



REPORT NUMBER: P731438 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-4S-CV1

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	176.0	275.9	336.2	374.4	428.2	490.6	573.9	670.6	763.2	870.5	1233.2
-25°	173.0	268.5	336.7	377.4	423.7	482.0	545.7	642.1	729.8	833.2	1062.6
-27.5°	170.9	258.4	330.5	378.2	418.1	473.5	529.5	608.6	704.3	800.3	905.2
-30°	165.6	239.9	321.9	374.7	415.9	465.7	518.5	578.0	675.0	768.0	864.6
-32.5°	155.1	220.6	302.9	363.4	412.2	457.1	507.3	560.9	637.6	733.6	822.3
-35°	142.9	205.6	279.6	349.2	404.9	448.6	494.5	545.1	601.5	688.7	787.4
-37.5°	131.6	188.1	255.6	328.3	386.7	439.7	479.7	527.7	580.2	640.3	738.8
-40°	118.1	168.2	233.0	301.6	366.9	425.0	470.1	508.6	557.1	618.3	679.4
-42.5°	103.1	151.0	208.7	274.1	338.8	400.6	459.0	496.6	539.4	596.5	655.0
-45°	90.8	131.5	182.6	243.2	305.5	370.0	429.3	488.0	529.0	574.8	630.3
-47.5°	76.9	111.4	158.2	209.8	269.3	330.6	394.1	455.0	517.7	561.5	605.1
-50°	63.7	94.3	131.1	178.6	230.4	288.2	348.0	414.8	477.9	539.0	589.5
-52.5°	55.3	75.6	108.7	146.9	193.0	243.3	300.4	362.2	427.2	492.0	547.6
-55°	46.3	63.4	86.1	118.9	156.5	200.7	249.7	306.3	365.3	427.4	486.2
-57.5°	37.7	52.4	69.3	92.1	124.0	158.8	201.4	248.0	300.9	355.9	405.0
-60°	28.9	41.5	55.9	72.5	92.7	122.5	153.0	191.6	235.6	280.0	322.9
-62.5°	20.5	30.8	42.9	56.5	72.5	88.6	113.0	141.1	170.3	206.3	241.9
-65°	16.4	21.3	30.2	41.7	53.8	67.8	82.3	97.1	120.9	144.7	167.5
-67.5°	12.1	16.4	20.9	26.9	37.3	47.7	59.0	71.9	84.9	97.0	111.6
-70°	10.2	11.8	15.3	19.4	23.4	28.3	37.4	47.2	57.2	66.8	76.9
-72.5°	8.8	10.3	11.7	13.1	16.3	19.4	22.2	24.8	30.5	38.5	46.2
-75°	7.6	8.7	10.0	11.3	12.3	13.3	14.5	17.0	19.4	21.7	23.9
-77.5°	6.4	7.2	8.2	9.3	10.2	10.9	11.6	12.4	13.5	14.7	15.9
-80°	5.2	5.6	6.1	6.9	7.7	8.4	9.0	9.5	10.1	10.9	11.8
-82.5°	4.2	4.5	4.7	5.0	5.4	5.9	6.5	7.1	7.5	7.9	8.3
-85°	3.3	3.4	3.6	3.7	3.9	4.2	4.5	4.8	5.1	5.4	5.7
-87.5°	2.8	2.8	2.8	2.9	2.9	3.0	3.0	3.0	3.3	3.5	3.8
-90°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1



REPORT NUMBER: P731438 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	2.2	2.5	2.8	3.1	3.4	3.7	4.0	4.2	4.5	4.5	4.5
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.6	1.5	1.4	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	2.2	2.1	1.9	1.8	1.8	1.7	1.5	1.3	1.1	1.1	1.1
77.5°	2.2	2.2	2.2	2.2	2.2	2.0	1.7	1.4	1.1	1.1	1.1
75°	2.2	2.3	2.4	2.4	2.3	2.1	2.0	2.0	2.0	1.8	1.6
72.5°	4.0	4.0	3.8	3.7	3.6	3.6	3.6	3.5	3.2	3.2	3.2
70°	7.2	7.4	7.4	7.1	6.4	5.7	5.3	4.9	4.4	4.1	3.9
67.5°	11.1	11.2	10.6	9.5	7.9	6.5	5.9	5.3	4.8	4.6	4.8
65°	15.4	14.0	12.3	10.4	8.5	6.6	6.1	5.7	5.4	5.5	5.9
62.5°	19.0	15.3	12.3	10.2	8.3	6.6	6.1	5.6	5.1	4.8	4.8
60°	21.0	15.4	11.1	9.2	7.4	5.8	5.2	4.8	4.6	4.5	4.5
57.5°	21.0	14.5	9.6	7.9	6.4	5.0	4.5	4.5	4.5	4.5	4.5
55°	18.7	12.7	8.3	6.8	5.8	4.9	4.5	4.7	4.7	4.5	4.7
52.5°	14.7	10.5	7.7	6.3	5.9	5.6	5.5	5.5	5.4	5.2	5.4
50°	11.6	8.7	7.4	6.6	6.6	6.6	6.6	6.7	6.9	7.0	7.1
47.5°	9.7	8.2	8.3	7.7	8.0	8.7	8.8	8.9	9.3	9.3	9.1
45°	10.0	11.6	11.9	11.8	11.6	13.2	13.1	12.1	13.5	13.9	13.5
42.5°	16.5	17.9	18.8	19.7	20.7	21.9	22.6	22.2	23.5	23.4	21.9
40°	27.9	26.6	28.7	31.3	33.6	34.4	36.6	38.8	39.6	39.1	37.7
37.5°	45.8	43.8	44.0	49.7	55.0	48.8	57.9	61.6	59.3	67.5	69.1
35°	76.1	84.2	72.6	93.0	103.2	98.1	109.1	130.8	114.0	144.7	152.2
32.5°	135.2	154.6	166.7	184.0	209.4	242.9	251.3	304.7	321.8	346.5	373.1
30°	221.0	275.6	376.2	394.9	419.1	534.5	566.2	595.2	655.9	702.8	782.3
27.5°	401.6	548.8	759.0	944.1	930.6	1125.7	1342.9	1099.7	1460.5	1315.7	1661.9
25°	752.1	1076.6	1583.4	2073.9	2307.9	2705.6	3203.0	3108.8	3765.0	3810.6	4778.5
22.5°	1430.3	2135.4	2910.4	3744.1	4553.0	5448.0	6308.1	7209.7	8565.3	10438.3	12258.7
20°	2340.2	3376.8	4628.6	5919.5	7288.5	8680.4	10297.7	13036.5	15844.5	19742.4	22496.0
17.5°	3326.2	4976.0	6512.7	8112.1	10025.8	12339.6	15685.0	20364.7	26040.8	31867.5	36375.0
15°	4187.4	6053.8	8268.8	10401.1	12780.8	16253.9	21508.1	28439.7	36880.8	45738.6	56449.7
12.5°	5020.8	6970.3	9377.3	12074.4	15308.2	20279.3	27090.0	36457.2	47639.7	60950.3	74707.5
10°	5667.4	7806.5	10485.5	13522.9	17469.9	23575.4	31489.9	42549.2	59119.9	74832.9	90542.8
7.5°	6172.8	8579.1	11416.9	14604.6	19200.5	26075.3	35544.3	49465.9	66974.3	83975.3	98445.1
5°	6622.0	9214.4	12047.9	15214.3	20446.3	27894.2	38091.0	53990.0	72673.8	89382.5	103151.8
2.5°	6975.8	9629.8	12394.5	15519.7	21248.3	28898.3	39434.1	56417.9	76347.6	92843.5	105991.4
0°	7190.0	9703.9	12452.6	15584.6	21309.2	29353.2	40482.1	57480.4	77658.0	94537.2	107468.6
-2.5°	7113.2	9538.0	12264.2	15394.0	21108.2	28926.9	39639.1	56942.0	76547.6	92339.6	105345.2
-5°	6730.9	8995.1	11526.7	14471.4	19774.9	27307.2	37249.5	53027.9	71456.2	87221.5	99459.8
-7.5°	6128.0	8236.5	10560.7	13286.8	17873.1	24679.5	33739.5	47166.8	63896.1	78442.7	89487.1
-10°	5453.5	7357.0	9370.8	11785.3	15370.2	21147.7	28713.5	38966.2	53314.0	66393.0	76835.7
-12.5°	4642.9	6226.5	7919.3	10001.6	12718.7	17428.7	23789.8	32106.7	42082.8	53721.4	63228.3
-15°	3800.4	5131.7	6532.8	8486.1	10803.4	13803.7	18376.1	24988.1	32393.0	40342.4	48968.2
-17.5°	3051.8	4179.0	5664.5	7309.7	9075.9	11163.8	14944.3	19450.4	24809.4	30479.4	35685.3
-20°	2451.5	3647.0	4981.6	6412.3	8035.2	10042.8	12365.2	15788.7	19762.8	24115.4	28285.6



REPORT NUMBER: P731438 (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°	2016.7	3088.8	4328.1	5670.1	7311.9	9119.3	11000.1	13148.6	16000.6	19347.0	22550.6
-25°	1536.0	2431.9	3634.1	4987.5	6500.0	8093.9	9620.6	11372.0	13457.0	15634.3	17877.6
-27.5°	1217.5	1850.0	2837.1	4108.0	5507.5	6755.4	8063.4	9521.8	11345.1	13239.4	14487.6
-30°	993.7	1364.0	2105.0	3098.0	4267.6	5368.9	6442.8	7753.5	9184.8	10544.4	11647.8
-32.5°	928.3	1093.9	1477.4	2185.1	3063.6	4046.5	5010.6	6180.6	7291.5	8367.4	9316.1
-35°	882.1	988.0	1132.6	1501.9	2031.0	2829.8	3710.7	4700.8	5703.4	6572.5	7377.2
-37.5°	839.1	931.0	1026.7	1122.0	1419.9	1785.5	2405.9	3189.0	3949.6	4652.8	5345.5
-40°	777.7	878.4	955.8	1037.2	1125.8	1226.5	1551.1	1871.1	2243.4	2782.8	3255.3
-42.5°	712.6	796.5	884.6	960.8	1034.9	1112.3	1194.1	1275.5	1445.6	1657.3	1830.6
-45°	685.4	735.8	796.4	876.0	950.5	1020.0	1086.5	1150.9	1218.9	1281.0	1331.7
-47.5°	652.8	698.7	747.7	799.6	854.3	921.4	987.2	1052.8	1112.3	1167.6	1211.7
-50°	622.7	658.8	702.5	746.7	790.4	835.4	880.9	931.5	988.3	1044.3	1090.4
-52.5°	598.1	631.1	662.4	693.8	731.8	769.9	808.1	848.4	887.2	923.9	952.5
-55°	538.4	584.9	630.7	660.2	685.9	711.9	740.8	776.9	811.3	843.9	863.1
-57.5°	457.0	511.0	560.5	595.4	631.1	667.2	697.1	722.9	748.9	773.8	787.3
-60°	366.6	410.8	455.7	497.3	537.0	574.5	609.3	643.2	674.5	700.9	716.9
-62.5°	277.0	313.8	350.2	385.0	418.5	451.1	488.1	523.9	557.9	585.6	602.7
-65°	192.9	223.0	251.2	278.3	304.3	332.0	360.8	388.9	415.8	437.1	451.2
-67.5°	131.2	149.7	166.6	182.7	202.4	223.7	244.9	264.6	282.6	296.4	306.3
-70°	87.2	97.1	105.9	116.4	129.3	142.3	155.4	167.5	178.6	186.9	193.1
-72.5°	53.6	60.5	66.9	73.9	80.5	87.3	94.4	101.4	108.1	113.0	116.7
-75°	25.8	29.0	34.7	39.8	44.5	48.8	52.7	56.2	59.2	61.1	62.3
-77.5°	17.6	19.1	20.5	21.9	23.3	25.0	26.8	28.5	30.2	31.4	32.5
-80°	12.7	13.5	14.1	14.7	15.2	15.9	16.7	17.5	18.3	18.6	18.8
-82.5°	8.7	9.3	10.0	10.5	11.1	11.6	12.1	12.6	13.0	13.4	13.8
-85°	5.9	6.2	6.5	6.9	7.3	7.6	8.0	8.4	8.8	8.8	8.9
-87.5°	4.1	4.2	4.3	4.3	4.4	4.7	5.0	5.3	5.6	5.6	5.6
-90°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.8	0.6



REPORT NUMBER: P731438 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.2
87.5°	1.1	1.1	0.5	0.0	0.5	1.1	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.3
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4
75°	1.4	1.1	1.1	1.1	1.1	1.1	1.4	1.6	1.8	2.0	2.0
72.5°	3.3	3.3	2.8	2.2	2.8	3.3	3.3	3.2	3.2	3.2	3.5
70°	3.7	3.4	3.4	3.4	3.4	3.4	3.7	3.9	4.1	4.4	4.9
67.5°	5.1	5.5	5.6	5.6	5.6	5.5	5.1	4.8	4.6	4.8	5.3
65°	6.2	6.6	6.2	5.6	6.2	6.6	6.2	5.9	5.5	5.4	5.7
62.5°	4.7	4.6	4.5	4.5	4.5	4.6	4.7	4.8	4.8	5.1	5.6
60°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.6	4.8
57.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
55°	5.1	5.4	5.6	5.6	5.6	5.4	5.1	4.7	4.5	4.7	4.7
52.5°	5.5	5.6	5.6	5.6	5.6	5.6	5.5	5.4	5.2	5.4	5.5
50°	7.0	6.8	6.7	6.7	6.7	6.8	7.0	7.1	7.0	6.9	6.7
47.5°	8.7	8.2	7.9	7.9	7.9	8.2	8.7	9.1	9.3	9.3	8.9
45°	13.6	13.5	13.4	13.5	13.4	13.5	13.6	13.5	13.9	13.5	12.1
42.5°	22.8	23.2	22.8	21.4	22.8	23.2	22.8	21.9	23.4	23.5	22.2
40°	37.7	36.2	34.3	33.7	34.3	36.2	37.7	37.7	39.1	39.6	38.8
37.5°	70.0	69.9	68.3	67.4	68.3	69.9	70.0	69.1	67.5	59.3	61.6
35°	147.1	145.9	137.9	130.4	137.9	145.9	147.1	152.2	144.7	114.0	130.8
32.5°	382.1	402.4	400.5	388.8	400.5	402.4	382.1	373.1	346.5	321.8	304.7
30°	812.9	849.2	841.6	793.4	841.6	849.2	812.9	782.3	702.8	655.9	595.2
27.5°	1680.2	1765.2	1840.1	1741.9	1840.1	1765.2	1680.2	1661.9	1315.7	1460.5	1099.7
25°	5747.5	6300.2	6627.2	6119.0	6627.2	6300.2	5747.5	4778.5	3810.6	3765.0	3108.8
22.5°	13717.0	14405.8	14773.4	14983.4	14773.4	14405.8	13717.0	12258.7	10438.3	8565.3	7209.7
20°	25161.6	26634.4	27577.9	25677.3	27577.9	26634.4	25161.6	22496.0	19742.4	15844.5	13036.5
17.5°	42628.0	48060.1	50920.1	52474.0	50920.1	48060.1	42628.0	36375.0	31867.5	26040.8	20364.7
15°	64716.1	71666.4	76359.8	78197.4	76359.8	71666.4	64716.1	56449.7	45738.6	36880.8	28439.7
12.5°	85600.6	92772.2	97102.7	98191.2	97102.7	92772.2	85600.6	74707.5	60950.3	47639.7	36457.2
10°	100455.1	107212.5	112193.9	113942.7	112193.9	107212.5	100455.1	90542.8	74832.9	59119.9	42549.2
7.5°	108724.6	116623.6	121014.0	122107.0	121014.0	116623.6	108724.6	98445.1	83975.3	66974.3	49465.9
5°	113484.0	120620.7	125420.1	126002.0	125420.1	120620.7	113484.0	103151.8	89382.5	72673.8	53990.0
2.5°	116552.6	123532.2	127570.2	128757.0	127570.2	123532.2	116552.6	105991.4	92843.5	76347.6	56417.9
0°	117305.6	123723.0	128601.3	130119.6	128601.3	123723.0	117305.6	107468.6	94537.2	77658.0	57480.4
-2.5°	115025.7	121216.4	124466.0	124992.9	124466.0	121216.4	115025.7	105345.2	92339.6	76547.6	56942.0
-5°	109203.2	113781.7	117533.2	118013.0	117533.2	113781.7	109203.2	99459.8	87221.5	71456.2	53027.9
-7.5°	96835.6	101971.6	104046.5	104608.0	104046.5	101971.6	96835.6	89487.1	78442.7	63896.1	47166.8
-10°	83676.5	88076.6	89546.4	90339.9	89546.4	88076.6	83676.5	76835.7	66393.0	53314.0	38966.2
-12.5°	70793.7	75096.3	76542.0	77690.6	76542.0	75096.3	70793.7	63228.3	53721.4	42082.8	32106.7
-15°	56359.7	60596.5	62932.3	64225.4	62932.3	60596.5	56359.7	48968.2	40342.4	32393.0	24988.1
-17.5°	42292.1	46315.9	49034.5	50616.3	49034.5	46315.9	42292.1	35685.3	30479.4	24809.4	19450.4
-20°	32067.5	34790.8	36882.9	38124.4	36882.9	34790.8	32067.5	28285.6	24115.4	19762.8	15788.7



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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°	25049.5	26935.6	28147.6	28940.8	28147.6	26935.6	25049.5	22550.6	19347.0	16000.6	13148.6
-25°	19577.7	20815.6	21599.4	22240.8	21599.4	20815.6	19577.7	17877.6	15634.3	13457.0	11372.0
-27.5°	15501.4	16165.1	16511.5	16982.6	16511.5	16165.1	15501.4	14487.6	13239.4	11345.1	9521.8
-30°	12461.5	12970.8	13246.2	13348.3	13246.2	12970.8	12461.5	11647.8	10544.4	9184.8	7753.5
-32.5°	10029.5	10510.5	10858.0	11020.9	10858.0	10510.5	10029.5	9316.1	8367.4	7291.5	6180.6
-35°	8001.6	8402.9	8676.8	8827.3	8676.8	8402.9	8001.6	7377.2	6572.5	5703.4	4700.8
-37.5°	5919.0	6359.4	6661.0	6764.1	6661.0	6359.4	5919.0	5345.5	4652.8	3949.6	3189.0
-40°	3631.6	3912.1	4093.2	4169.2	4093.2	3912.1	3631.6	3255.3	2782.8	2243.4	1871.1
-42.5°	1965.7	2068.7	2140.2	2181.3	2140.2	2068.7	1965.7	1830.6	1657.3	1445.6	1275.5
-45°	1364.5	1390.6	1407.1	1413.7	1407.1	1390.6	1364.5	1331.7	1281.0	1218.9	1150.9
-47.5°	1244.0	1272.1	1287.1	1287.9	1287.1	1272.1	1244.0	1211.7	1167.6	1112.3	1052.8
-50°	1126.8	1157.4	1172.9	1174.4	1172.9	1157.4	1126.8	1090.4	1044.3	988.3	931.5
-52.5°	978.6	1002.9	1013.4	1012.5	1013.4	1002.9	978.6	952.5	923.9	887.2	848.4
-55°	879.7	894.2	900.6	901.3	900.6	894.2	879.7	863.1	843.9	811.3	776.9
-57.5°	799.6	810.3	814.0	813.6	814.0	810.3	799.6	787.3	773.8	748.9	722.9
-60°	730.9	742.6	745.8	743.9	745.8	742.6	730.9	716.9	700.9	674.5	643.2
-62.5°	616.6	627.3	632.6	633.8	632.6	627.3	616.6	602.7	585.6	557.9	523.9
-65°	462.2	470.2	474.4	475.4	474.4	470.2	462.2	451.2	437.1	415.8	388.9
-67.5°	313.9	319.3	321.0	320.3	321.0	319.3	313.9	306.3	296.4	282.6	264.6
-70°	198.1	201.9	202.8	202.3	202.8	201.9	198.1	193.1	186.9	178.6	167.5
-72.5°	119.7	121.9	122.1	121.4	122.1	121.9	119.7	116.7	113.0	108.1	101.4
-75°	63.1	63.5	63.4	62.9	63.4	63.5	63.1	62.3	61.1	59.2	56.2
-77.5°	33.6	34.5	34.2	33.7	34.2	34.5	33.6	32.5	31.4	30.2	28.5
-80°	18.9	19.0	19.1	19.1	19.1	19.0	18.9	18.8	18.6	18.3	17.5
-82.5°	14.2	14.5	14.0	13.5	14.0	14.5	14.2	13.8	13.4	13.0	12.6
-85°	8.9	9.0	9.0	9.0	9.0	9.0	8.9	8.9	8.8	8.8	8.4
-87.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.3
-90°	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.8	1.1	1.1



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	4.0	3.7	3.4	3.1	2.8	2.5	2.2	2.2	2.2	2.2	2.2
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.3	1.4	1.5	1.6	1.5	1.4	1.3	1.2
80°	1.5	1.7	1.8	1.8	1.9	2.1	2.2	2.2	2.2	2.1	2.0
77.5°	1.7	2.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1
75°	2.0	2.1	2.3	2.4	2.4	2.3	2.2	2.2	2.2	2.2	2.1
72.5°	3.6	3.6	3.6	3.7	3.8	4.0	4.0	3.8	3.4	2.7	2.2
70°	5.3	5.7	6.4	7.1	7.4	7.4	7.2	6.8	6.3	5.9	4.7
67.5°	5.9	6.5	7.9	9.5	10.6	11.2	11.1	10.5	9.8	9.1	7.4
65°	6.1	6.6	8.5	10.4	12.3	14.0	15.4	15.4	14.7	13.1	10.1
62.5°	6.1	6.6	8.3	10.2	12.3	15.3	19.0	20.6	20.7	18.1	14.0
60°	5.2	5.8	7.4	9.2	11.1	15.4	21.0	25.2	27.9	23.8	18.1
57.5°	4.5	5.0	6.4	7.9	9.6	14.5	21.0	28.2	32.9	27.4	22.1
55°	4.5	4.9	5.8	6.8	8.3	12.7	18.7	25.7	30.8	28.6	22.9
52.5°	5.5	5.6	5.9	6.3	7.7	10.5	14.7	21.2	24.7	23.7	21.5
50°	6.6	6.6	6.6	6.6	7.4	8.7	11.6	16.2	17.8	18.7	17.7
47.5°	8.8	8.7	8.0	7.7	8.3	8.2	9.7	11.7	13.9	14.1	14.1
45°	13.1	13.2	11.6	11.8	11.9	11.6	10.0	11.5	12.5	12.9	11.4
42.5°	22.6	21.9	20.7	19.7	18.8	17.9	16.5	15.7	14.6	13.9	13.9
40°	36.6	34.4	33.6	31.3	28.7	26.6	27.9	24.5	21.3	17.7	19.7
37.5°	57.9	48.8	55.0	49.7	44.0	43.8	45.8	40.3	31.6	34.0	32.9
35°	109.1	98.1	103.2	93.0	72.6	84.2	76.1	64.4	57.7	62.3	54.5
32.5°	251.3	242.9	209.4	184.0	166.7	154.6	135.2	103.8	108.2	105.5	90.1
30°	566.2	534.5	419.1	394.9	376.2	275.6	221.0	204.6	188.2	160.8	135.5
27.5°	1342.9	1125.7	930.6	944.1	759.0	548.8	401.6	329.7	289.5	242.7	196.6
25°	3203.0	2705.6	2307.9	2073.9	1583.4	1076.6	752.1	539.5	417.3	344.2	283.5
22.5°	6308.1	5448.0	4553.0	3744.1	2910.4	2135.4	1430.3	813.9	558.3	459.8	385.7
20°	10297.7	8680.4	7288.5	5919.5	4628.6	3376.8	2340.2	1345.7	784.9	578.8	485.8
17.5°	15685.0	12339.6	10025.8	8112.1	6512.7	4976.0	3326.2	1931.2	998.2	694.0	581.4
15°	21508.1	16253.9	12780.8	10401.1	8268.8	6053.8	4187.4	2487.0	1282.5	846.2	674.6
12.5°	27090.0	20279.3	15308.2	12074.4	9377.3	6970.3	5020.8	3194.2	1713.7	983.7	731.8
10°	31489.9	23575.4	17469.9	13522.9	10485.5	7806.5	5667.4	3688.1	1989.8	1091.3	780.0
7.5°	35544.3	26075.3	19200.5	14604.6	11416.9	8579.1	6172.8	4033.2	2165.0	1182.5	819.7
5°	38091.0	27894.2	20446.3	15214.3	12047.9	9214.4	6622.0	4271.8	2250.7	1256.0	851.6
2.5°	39434.1	28898.3	21248.3	15519.7	12394.5	9629.8	6975.8	4437.0	2302.5	1286.5	863.6
0°	40482.1	29353.2	21309.2	15584.6	12452.6	9703.9	7190.0	4517.6	2317.2	1291.2	869.8
-2.5°	39639.1	28926.9	21108.2	15394.0	12264.2	9538.0	7113.2	4640.7	2386.5	1310.1	874.7
-5°	37249.5	27307.2	19774.9	14471.4	11526.7	8995.1	6730.9	4485.4	2362.4	1299.2	873.5
-7.5°	33739.5	24679.5	17873.1	13286.8	10560.7	8236.5	6128.0	4063.5	2210.5	1231.0	848.6
-10°	28713.5	21147.7	15370.2	11785.3	9370.8	7357.0	5453.5	3574.7	1997.1	1143.2	818.4
-12.5°	23789.8	17428.7	12718.7	10001.6	7919.3	6226.5	4642.9	3022.2	1722.1	1036.7	783.3
-15°	18376.1	13803.7	10803.4	8486.1	6532.8	5131.7	3800.4	2408.8	1390.4	917.4	743.7
-17.5°	14944.3	11163.8	9075.9	7309.7	5664.5	4179.0	3051.8	1981.2	1186.4	833.3	715.0
-20°	12365.2	10042.8	8035.2	6412.3	4981.6	3647.0	2451.5	1557.0	1033.7	798.9	694.8



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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°	11000.1	9119.3	7311.9	5670.1	4328.1	3088.8	2016.7	1233.2	870.5	763.2	670.6
-25°	9620.6	8093.9	6500.0	4987.5	3634.1	2431.9	1536.0	1062.6	833.2	729.8	642.1
-27.5°	8063.4	6755.4	5507.5	4108.0	2837.1	1850.0	1217.5	905.2	800.3	704.3	608.6
-30°	6442.8	5368.9	4267.6	3098.0	2105.0	1364.0	993.7	864.6	768.0	675.0	578.0
-32.5°	5010.6	4046.5	3063.6	2185.1	1477.4	1093.9	928.3	822.3	733.6	637.6	560.9
-35°	3710.7	2829.8	2031.0	1501.9	1132.6	988.0	882.1	787.4	688.7	601.5	545.1
-37.5°	2405.9	1785.5	1419.9	1122.0	1026.7	931.0	839.1	738.8	640.3	580.2	527.7
-40°	1551.1	1226.5	1125.8	1037.2	955.8	878.4	777.7	679.4	618.3	557.1	508.6
-42.5°	1194.1	1112.3	1034.9	960.8	884.6	796.5	712.6	655.0	596.5	539.4	496.6
-45°	1086.5	1020.0	950.5	876.0	796.4	735.8	685.4	630.3	574.8	529.0	488.0
-47.5°	987.2	921.4	854.3	799.6	747.7	698.7	652.8	605.1	561.5	517.7	455.0
-50°	880.9	835.4	790.4	746.7	702.5	658.8	622.7	589.5	539.0	477.9	414.8
-52.5°	808.1	769.9	731.8	693.8	662.4	631.1	598.1	547.6	492.0	427.2	362.2
-55°	740.8	711.9	685.9	660.2	630.7	584.9	538.4	486.2	427.4	365.3	306.3
-57.5°	697.1	667.2	631.1	595.4	560.5	511.0	457.0	405.0	355.9	300.9	248.0
-60°	609.3	574.5	537.0	497.3	455.7	410.8	366.6	322.9	280.0	235.6	191.6
-62.5°	488.1	451.1	418.5	385.0	350.2	313.8	277.0	241.9	206.3	170.3	141.1
-65°	360.8	332.0	304.3	278.3	251.2	223.0	192.9	167.5	144.7	120.9	97.1
-67.5°	244.9	223.7	202.4	182.7	166.6	149.7	131.2	111.6	97.0	84.9	71.9
-70°	155.4	142.3	129.3	116.4	105.9	97.1	87.2	76.9	66.8	57.2	47.2
-72.5°	94.4	87.3	80.5	73.9	66.9	60.5	53.6	46.2	38.5	30.5	24.8
-75°	52.7	48.8	44.5	39.8	34.7	29.0	25.8	23.9	21.7	19.4	17.0
-77.5°	26.8	25.0	23.3	21.9	20.5	19.1	17.6	15.9	14.7	13.5	12.4
-80°	16.7	15.9	15.2	14.7	14.1	13.5	12.7	11.8	10.9	10.1	9.5
-82.5°	12.1	11.6	11.1	10.5	10.0	9.3	8.7	8.3	7.9	7.5	7.1
-85°	8.0	7.6	7.3	6.9	6.5	6.2	5.9	5.7	5.4	5.1	4.8
-87.5°	5.0	4.7	4.4	4.3	4.3	4.2	4.1	3.8	3.5	3.3	3.0
-90°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1



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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°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	1.6	1.4	1.2	1.1	1.1	1.1	1.1	1.1	1.3	1.3	1.3
77.5°	1.8	1.6	1.3	1.2	1.3	1.4	1.4	1.3	1.4	1.5	1.5
75°	1.8	1.5	1.3	1.2	1.5	1.7	1.8	1.7	1.7	1.7	1.8
72.5°	2.1	1.8	1.4	1.2	1.5	1.8	2.0	2.1	1.9	1.9	2.0
70°	3.4	2.4	2.0	1.8	1.7	1.8	2.1	2.2	2.2	2.1	2.1
67.5°	5.6	4.2	3.1	2.3	2.0	2.0	2.1	2.2	2.2	2.2	2.2
65°	8.0	6.1	4.4	3.2	2.5	2.2	2.2	2.2	2.2	2.2	2.2
62.5°	10.7	8.1	6.1	4.2	3.0	2.4	2.2	2.2	2.2	2.2	2.2
60°	13.4	10.1	7.7	5.6	3.7	2.5	2.2	2.2	2.2	2.2	2.2
57.5°	16.4	11.8	9.1	6.9	4.8	3.0	2.2	2.2	2.2	2.2	2.2
55°	18.4	13.9	10.6	8.0	5.8	3.8	2.5	2.2	2.2	2.2	2.2
52.5°	17.5	15.0	12.4	9.2	6.6	4.7	3.4	2.2	2.2	2.2	2.2
50°	15.2	14.8	13.4	10.6	7.4	5.7	4.3	2.9	2.2	2.2	2.2
47.5°	13.7	14.2	13.5	11.6	8.5	6.7	5.2	3.7	2.2	2.2	2.2
45°	13.0	13.3	13.4	12.0	9.9	7.9	6.2	4.4	2.8	2.2	2.2
42.5°	13.4	13.5	12.8	12.5	11.1	9.1	7.3	5.3	3.5	2.3	2.2
40°	18.2	15.1	13.1	13.4	12.4	10.1	8.2	6.3	4.1	2.6	2.3
37.5°	24.9	20.0	15.5	16.8	14.5	11.5	9.1	7.3	4.8	3.2	2.5
35°	41.8	28.0	25.9	24.5	19.2	13.1	9.8	8.1	5.7	3.7	2.6
32.5°	63.7	49.1	46.5	37.3	25.6	14.8	11.0	8.9	6.6	4.3	2.8
30°	105.3	92.5	74.0	53.4	35.3	20.9	12.9	9.9	7.4	4.8	3.0
27.5°	173.3	144.5	109.9	78.8	50.8	28.7	15.8	11.0	8.1	5.3	3.4
25°	247.8	207.8	160.0	110.6	68.5	44.6	19.2	12.3	9.0	5.9	3.8
22.5°	330.1	276.2	215.7	146.3	98.0	65.0	27.5	15.0	9.9	6.5	4.2
20°	415.9	347.5	273.2	183.1	131.7	90.5	42.4	17.9	11.0	7.1	4.5
17.5°	504.5	410.5	316.0	223.7	164.1	117.1	59.5	20.9	12.0	7.6	4.8
15°	564.4	459.4	356.7	260.8	193.4	144.4	78.4	24.1	13.1	8.0	5.2
12.5°	612.5	506.0	394.8	294.5	219.8	172.1	98.3	27.3	14.1	8.7	5.7
10°	655.4	549.6	430.2	324.8	243.6	199.7	118.6	30.6	16.0	9.7	6.2
7.5°	693.4	589.9	462.5	351.7	263.0	219.2	131.6	34.1	18.1	10.7	6.6
5°	722.8	619.3	483.7	363.8	269.4	229.2	141.4	37.3	20.0	11.7	7.1
2.5°	731.6	633.1	496.7	371.1	274.6	237.1	148.9	40.2	21.9	12.6	7.5
0°	736.1	641.7	505.7	375.3	278.7	242.7	154.0	42.7	23.6	13.5	7.9
-2.5°	739.8	644.4	510.5	382.9	287.1	247.2	162.4	55.0	31.9	18.1	10.0
-5°	739.8	642.4	511.2	387.6	294.2	249.8	168.6	66.8	39.8	22.6	12.0
-7.5°	724.8	628.3	504.4	389.2	299.9	250.9	172.8	77.6	47.1	26.7	13.9
-10°	703.5	605.5	489.4	386.8	307.0	254.5	175.8	87.5	53.7	30.3	15.6
-12.5°	678.9	579.2	473.8	383.3	313.9	260.5	180.5	96.2	59.4	33.4	17.1
-15°	650.9	550.1	458.5	379.3	320.3	265.4	182.9	103.4	63.8	36.0	18.4
-17.5°	622.9	518.5	444.3	375.2	326.4	269.5	182.9	108.7	67.0	37.9	19.6
-20°	600.1	498.8	432.5	371.5	332.4	273.0	180.6	111.9	69.1	39.1	20.6



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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°	573.9	490.6	428.2	374.4	336.2	275.9	176.0	112.9	69.8	39.6	21.3
-25°	545.7	482.0	423.7	377.4	336.7	268.5	173.0	111.5	69.1	39.2	21.6
-27.5°	529.5	473.5	418.1	378.2	330.5	258.4	170.9	110.5	67.6	37.9	21.5
-30°	518.5	465.7	415.9	374.7	321.9	239.9	165.6	107.7	66.0	37.0	20.9
-32.5°	507.3	457.1	412.2	363.4	302.9	220.6	155.1	102.8	63.2	36.3	20.4
-35°	494.5	448.6	404.9	349.2	279.6	205.6	142.9	95.9	59.0	34.9	19.8
-37.5°	479.7	439.7	386.7	328.3	255.6	188.1	131.6	87.4	53.6	33.0	18.7
-40°	470.1	425.0	366.9	301.6	233.0	168.2	118.1	78.8	49.8	30.3	17.3
-42.5°	459.0	400.6	338.8	274.1	208.7	151.0	103.1	69.0	45.4	27.9	15.4
-45°	429.3	370.0	305.5	243.2	182.6	131.5	90.8	58.7	40.4	25.4	13.7
-47.5°	394.1	330.6	269.3	209.8	158.2	111.4	76.9	52.5	34.9	22.3	12.5
-50°	348.0	288.2	230.4	178.6	131.1	94.3	63.7	45.7	30.4	18.5	11.0
-52.5°	300.4	243.3	193.0	146.9	108.7	75.6	55.3	38.4	25.4	15.6	9.3
-55°	249.7	200.7	156.5	118.9	86.1	63.4	46.3	32.0	19.9	13.3	7.6
-57.5°	201.4	158.8	124.0	92.1	69.3	52.4	37.7	25.0	16.4	10.8	7.2
-60°	153.0	122.5	92.7	72.5	55.9	41.5	28.9	18.9	13.4	8.6	6.7
-62.5°	113.0	88.6	72.5	56.5	42.9	30.8	20.5	15.3	10.3	7.9	6.2
-65°	82.3	67.8	53.8	41.7	30.2	21.3	16.4	11.7	8.9	7.2	5.6
-67.5°	59.0	47.7	37.3	26.9	20.9	16.4	12.1	9.8	8.0	6.4	5.1
-70°	37.4	28.3	23.4	19.4	15.3	11.8	10.2	8.6	7.1	5.8	4.5
-72.5°	22.2	19.4	16.3	13.1	11.7	10.3	8.8	7.5	6.3	5.1	3.9
-75°	14.5	13.3	12.3	11.3	10.0	8.7	7.6	6.6	5.5	4.4	3.5
-77.5°	11.6	10.9	10.2	9.3	8.2	7.2	6.4	5.7	4.8	3.9	3.1
-80°	9.0	8.4	7.7	6.9	6.1	5.6	5.2	4.8	4.1	3.4	2.8
-82.5°	6.5	5.9	5.4	5.0	4.7	4.5	4.2	4.0	3.4	2.8	2.5
-85°	4.5	4.2	3.9	3.7	3.6	3.4	3.3	3.2	2.9	2.6	2.4
-87.5°	3.0	3.0	2.9	2.9	2.8	2.8	2.8	2.7	2.5	2.4	2.3
-90°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	2.2	2.2	2.2	2.2	2.2	2.2	2.2
87.5°	1.1	1.2	1.2	1.2	1.2	1.7	2.2
85°	1.1	1.2	1.3	1.3	1.3	1.7	2.2
82.5°	1.1	1.3	1.4	1.4	1.4	1.7	2.2
80°	1.2	1.4	1.5	1.5	1.5	1.8	2.2
77.5°	1.4	1.5	1.6	1.6	1.6	1.8	2.2
75°	1.7	1.6	1.7	1.8	1.7	1.8	2.2
72.5°	2.0	1.8	1.8	1.9	1.8	1.8	2.2
70°	2.2	2.0	1.9	2.0	1.9	1.9	2.2
67.5°	2.2	2.1	2.0	2.0	2.0	1.9	2.2
65°	2.2	2.2	2.1	2.1	2.0	1.9	2.2
62.5°	2.2	2.2	2.1	2.1	2.1	1.9	2.2
60°	2.2	2.2	2.2	2.1	2.2	2.0	2.2
57.5°	2.2	2.2	2.2	2.1	2.2	2.0	2.2
55°	2.2	2.2	2.2	2.2	2.2	2.0	2.2
52.5°	2.2	2.2	2.2	2.2	2.2	2.0	2.2
50°	2.2	2.2	2.2	2.2	2.2	2.0	2.2
47.5°	2.2	2.2	2.2	2.2	2.2	2.1	2.2
45°	2.2	2.2	2.2	2.2	2.2	2.1	2.2
42.5°	2.2	2.2	2.2	2.2	2.2	2.1	2.2
40°	2.2	2.2	2.2	2.2	2.2	2.1	2.2
37.5°	2.2	2.2	2.2	2.2	2.2	2.1	2.2
35°	2.2	2.2	2.2	2.2	2.2	2.1	2.2
32.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2
30°	2.4	2.2	2.2	2.2	2.2	2.2	2.2
27.5°	2.5	2.2	2.2	2.2	2.2	2.2	2.2
25°	2.6	2.2	2.2	2.2	2.2	2.2	2.2
22.5°	2.8	2.2	2.2	2.2	2.2	2.2	2.2
20°	2.9	2.3	2.2	2.2	2.2	2.2	2.2
17.5°	3.1	2.4	2.2	2.2	2.2	2.2	2.2
15°	3.4	2.5	2.2	2.2	2.2	2.2	2.2
12.5°	3.6	2.7	2.2	2.2	2.2	2.2	2.2
10°	3.8	2.8	2.2	2.2	2.2	2.2	2.2
7.5°	4.0	3.0	2.2	2.2	2.2	2.2	2.2
5°	4.2	3.1	2.2	2.2	2.2	2.2	2.2
2.5°	4.3	3.3	2.2	2.2	2.2	2.2	2.2
0°	4.5	3.4	2.2	2.2	2.2	2.2	2.2
-2.5°	5.5	3.8	2.3	2.2	2.2	2.2	2.2
-5°	6.6	4.1	2.4	2.2	2.2	2.2	2.2
-7.5°	7.5	4.4	2.5	2.2	2.2	2.2	2.2
-10°	8.4	4.7	2.6	2.2	2.2	2.2	2.2
-12.5°	9.1	4.9	2.7	2.2	2.2	2.2	2.2
-15°	9.8	5.1	2.7	2.2	2.2	2.2	2.2
-17.5°	10.3	5.3	2.8	2.2	2.2	2.2	2.2
-20°	10.7	5.3	2.8	2.2	2.2	2.2	2.2



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 CATALOG NUMBER: EPH-LS-08-0320N-57-80-4S-CV1

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	11.1	5.4	2.8	2.2	2.2	2.2	2.2
-25°	11.2	5.4	2.8	2.2	2.2	2.2	2.2
-27.5°	11.2	5.4	2.8	2.2	2.2	2.2	2.2
-30°	10.9	5.3	2.8	2.2	2.2	2.2	2.2
-32.5°	10.3	5.1	2.8	2.2	2.2	2.2	2.2
-35°	9.9	4.8	2.8	2.2	2.2	2.2	2.2
-37.5°	9.6	4.5	2.8	2.2	2.2	2.2	2.2
-40°	9.0	4.5	2.8	2.2	2.2	2.2	2.2
-42.5°	8.3	4.5	2.8	2.2	2.2	2.2	2.2
-45°	7.4	4.4	2.8	2.2	2.2	2.2	2.2
-47.5°	6.4	4.3	2.9	2.3	2.2	2.2	2.2
-50°	6.0	4.1	2.9	2.3	2.2	2.2	2.2
-52.5°	5.8	3.9	2.8	2.3	2.2	2.2	2.2
-55°	5.5	3.8	2.8	2.3	2.2	2.2	2.2
-57.5°	5.2	3.7	2.7	2.3	2.2	2.2	2.2
-60°	4.9	3.5	2.6	2.3	2.2	2.2	2.2
-62.5°	4.6	3.3	2.6	2.3	2.2	2.2	2.2
-65°	4.2	3.1	2.5	2.3	2.2	2.2	2.2
-67.5°	3.8	2.9	2.5	2.2	2.2	2.2	2.2
-70°	3.4	2.8	2.4	2.2	2.2	2.2	2.2
-72.5°	3.1	2.6	2.3	2.2	2.2	2.2	2.2
-75°	2.8	2.4	2.2	2.2	2.2	2.2	2.2
-77.5°	2.5	2.3	2.2	2.2	2.2	2.2	2.2
-80°	2.2	2.2	2.2	2.2	2.2	2.2	2.2
-82.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2
-85°	2.2	2.2	2.2	2.2	2.2	2.2	2.2
-87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2
-90°	1.1	1.1	1.1	1.1	1.1	1.7	2.2

(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

