

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: SURE-LITES

Report Number: P26738

Luminaire Tested: **CU22 LED**

Test Date: 09/08/15

Test Information

Test Method: LM-79-08
Report Number: P26738
Test Lab: INNOVATION CENTER-P2
Test Date: 09/08/15
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SURE-LITES
Catalog Number: CU22 LED
Description: SURE-LITES FIXED OPTIC EMERGENCY LIGHT WITHOUT LED REFLECTORS
Light Source: (2) 5000K LEDS
NONE
Ballast/Driver: [1] AGILIENT DC POWER SUPPLY
IN0011

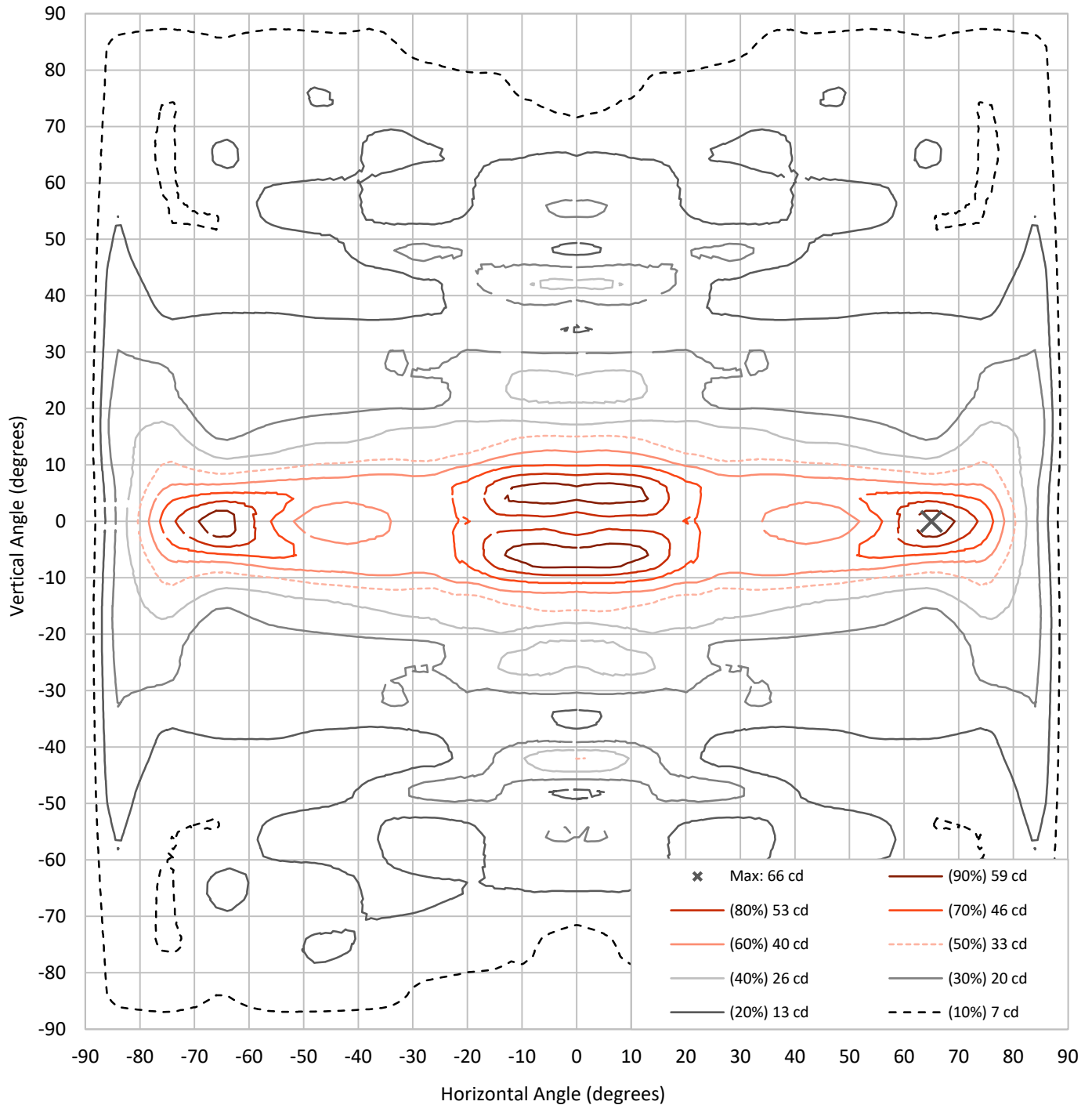
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 6V
Luminaire Lumens:	116.6 lumens	Max Intensity:	66 candela
Efficiency:	N/A	Max Intensity Angle:	65°H x 0°V
Efficacy:	97.2 lumens/watt		
Luminous Opening:	Rectangular w/ Sides (W: 0.92' x L: 0.12' x H: 0.44')		
Beam Angle (50%):	36.6°H x 17°V	Field Angle (10%):	176.3°H x 103.5°V
Beam Lumens:	37 lumens	Field Lumens:	114.1 lumens
Beam Efficiency:	31.8%	Field Efficiency:	97.9%
Input Watts (W):	1.2		
Input Voltage (V):	NR		
Input Current (Ain):	0.34109		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	DC		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	25.1		
Test Distance:	25 FT		



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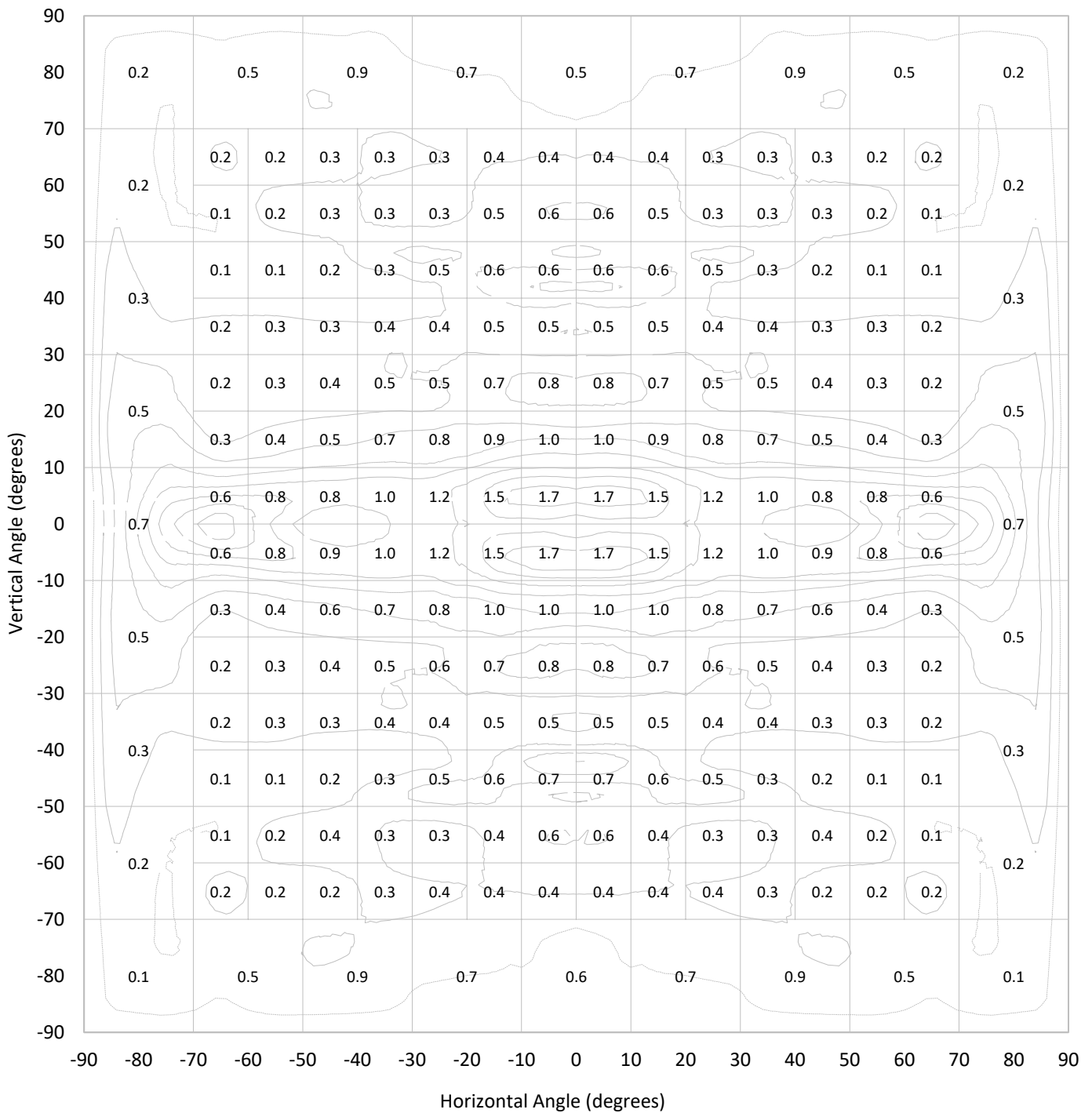
Iso-Candela Plot





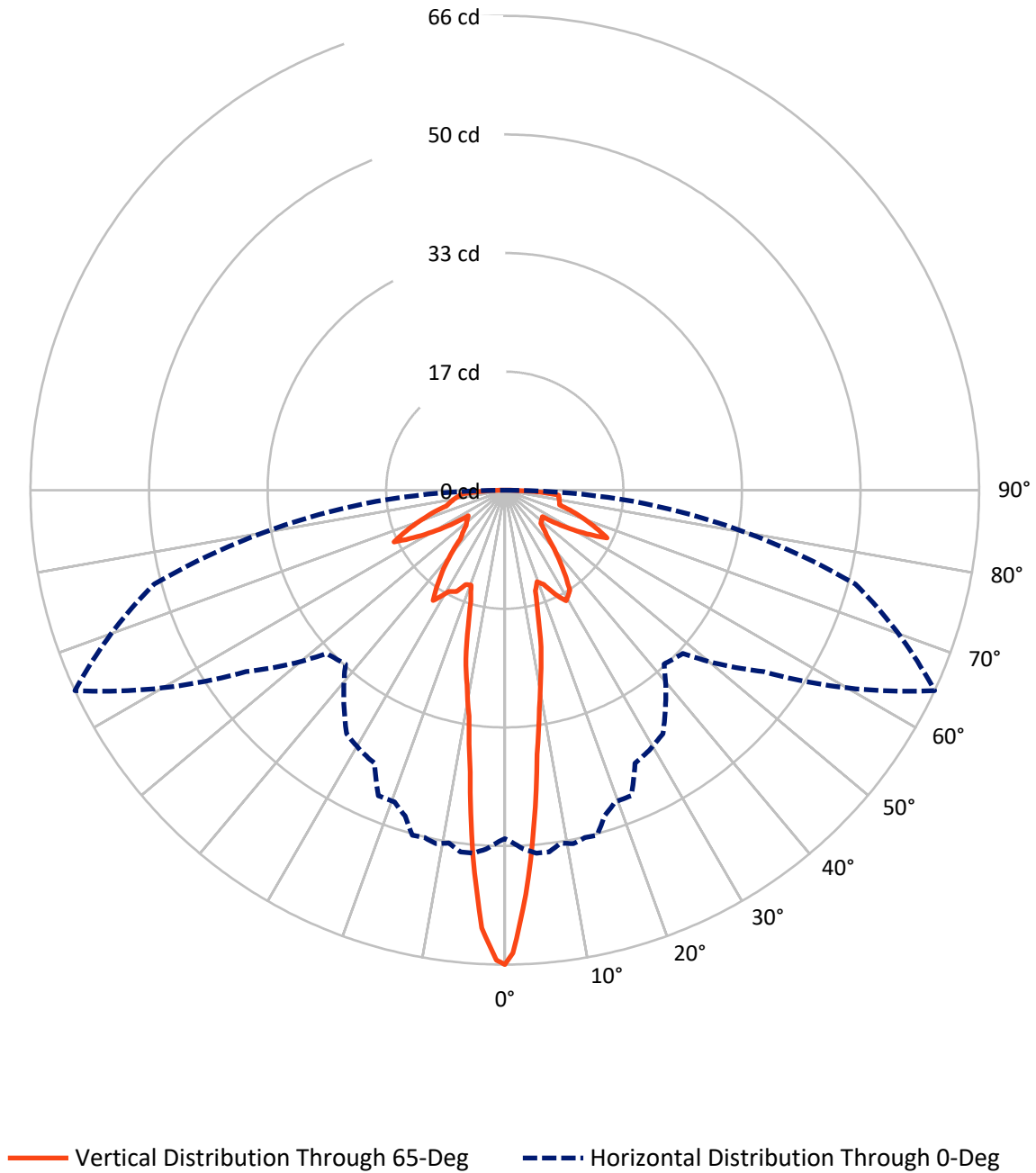
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Lumen Table



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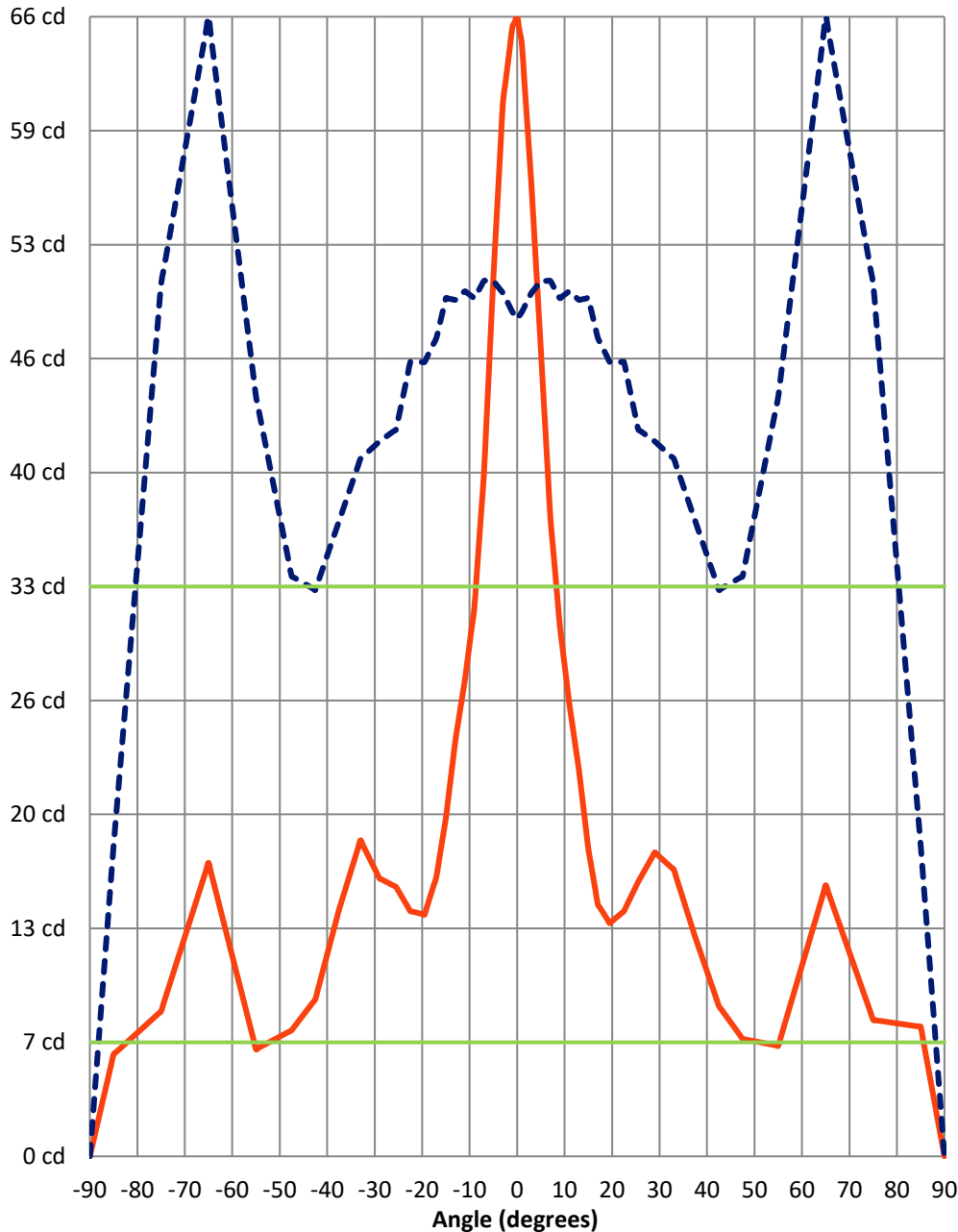
Luminous Intensity Polar Plot





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Luminous Intensity Plot



Beam:
 H Angle: 36.6°
 V Angle: 17°
 Lumens: 37
 Efficiency: 31.8%

Field:
 H Angle: 176.3°
 V Angle: 103.5°
 Lumens: 114.1
 Efficiency: 97.9%

Spill:
 Lumens: 2.5
 Efficiency: 2.1%

— Vertical Distribution through 65-Deg
 - - - Horizontal Distribution through 0-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	0°	1°	3°	5°	7°	9°	11°	13°	15°	17°	19.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.5	0.5	1.5	2.7	3.2	3.4	3.9	3.9	3.9	3.9	4.0
75°	3.2	3.7	3.9	4.6	5.9	6.4	6.4	8.0	9.1	8.7	8.8
65°	13.1	13.5	13.8	13.5	13.3	13.1	12.7	12.9	12.9	12.7	12.9
55°	21.3	21.4	21.2	20.6	20.2	19.3	17.5	17.2	15.6	14.6	12.9
47.5°	10.5	10.5	11.2	12.5	14.0	15.3	15.9	16.7	18.3	18.9	19.6
42.5°	29.4	29.5	29.8	29.5	28.1	27.1	25.5	22.9	21.8	21.6	18.3
37.5°	14.7	15.4	16.9	18.2	17.8	18.3	18.2	17.6	16.9	16.8	16.0
33°	12.2	12.1	12.2	12.3	12.4	12.7	12.9	13.2	13.7	14.5	15.6
29°	21.9	21.6	22.1	21.6	21.7	22.1	22.0	22.1	21.7	22.0	22.6
25.5°	26.9	27.3	28.1	28.9	29.1	28.9	28.0	26.0	24.3	23.0	22.1
22.5°	30.8	30.7	30.3	29.7	28.4	27.6	26.9	26.8	25.5	23.5	22.1
19.5°	21.5	21.8	22.1	23.0	23.6	24.3	24.6	24.0	23.5	23.1	22.6
17°	25.4	25.2	25.7	26.3	26.6	26.9	27.3	27.5	28.1	27.8	28.5
15°	34.4	34.4	34.4	34.6	34.0	33.3	32.7	31.3	30.0	28.7	28.1
13°	38.4	38.5	39.2	39.1	39.1	37.8	37.1	35.2	33.7	31.9	30.4
11°	41.9	41.8	42.3	42.4	42.3	42.4	42.6	41.7	40.6	38.3	36.0
9°	49.5	49.2	49.4	50.0	49.3	48.9	48.8	47.0	46.6	44.1	42.6
7°	57.8	58.3	59.4	59.8	60.1	59.1	58.6	56.1	54.3	50.6	47.5
5°	62.4	62.7	64.7	64.6	64.4	62.4	62.4	60.0	57.5	52.5	48.3
3°	57.5	57.5	59.2	59.2	59.8	59.2	59.9	59.4	57.4	51.7	47.7
1°	49.9	50.2	51.2	51.6	52.0	50.7	51.2	51.3	51.4	48.3	46.7
0°	48.5	48.9	50.0	50.7	50.7	49.7	50.1	49.6	49.7	47.4	46.0
-1°	49.2	49.4	50.5	51.3	51.4	50.4	50.9	50.2	50.5	48.5	46.9
-3°	53.9	54.1	55.4	56.2	56.6	56.2	56.7	56.0	55.9	52.6	48.8
-5°	61.5	60.8	61.9	62.4	62.9	61.9	62.0	59.9	58.3	53.1	47.5
-7°	64.2	64.2	64.7	64.6	64.4	62.5	61.3	59.0	56.6	52.2	47.6
-9°	55.8	55.1	56.0	55.7	56.2	54.3	53.0	51.6	50.0	46.7	44.5
-11°	45.7	45.6	45.5	44.8	44.9	43.7	43.7	43.0	43.0	40.5	39.6
-13°	35.9	36.6	36.9	37.2	38.0	37.9	38.3	37.8	37.0	34.1	32.6
-15°	34.7	35.0	35.8	35.5	35.0	33.3	32.2	30.9	29.8	27.7	27.0
-17°	30.5	29.8	30.1	30.3	30.2	29.7	29.4	29.1	29.0	28.5	28.4
-19.5°	20.6	20.7	21.2	22.0	23.3	24.5	25.6	26.5	26.6	25.8	25.9
-22.5°	31.0	31.1	30.7	29.3	27.4	26.1	25.3	24.9	24.3	23.0	22.0
-25.5°	26.4	26.4	27.1	28.0	28.4	29.2	29.4	29.0	26.3	24.3	23.4
-29°	23.6	23.7	24.4	24.7	24.3	23.6	22.8	21.9	20.9	20.3	20.8
-33°	12.4	12.5	12.6	12.6	12.9	13.3	13.9	15.3	15.3	16.5	18.3
-37.5°	12.3	12.3	13.0	14.4	15.3	15.7	15.9	16.2	16.0	16.2	16.1
-42.5°	35.5	35.5	34.9	33.8	31.3	28.3	25.7	23.1	20.5	18.0	16.2
-47.5°	11.0	11.0	11.5	12.5	14.1	15.5	17.7	19.1	21.6	22.5	22.6
-55°	20.3	20.8	21.3	20.7	20.0	18.7	16.8	15.9	14.5	13.2	10.9
-65°	13.9	13.9	13.7	13.7	13.8	13.5	13.3	13.4	13.4	13.2	13.4
-75°	2.7	3.0	4.2	4.7	6.1	8.2	7.3	7.9	8.5	9.0	9.0
-85°	4.3	3.9	4.2	4.2	4.4	4.6	4.3	4.2	4.1	3.9	4.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	22.5°	25.5°	29°	33°	37.5°	42.5°	47.5°	55°	65°	75°	85°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.0	4.1	4.2	6.3	12.6	9.1	10.3	12.3	7.5	12.5	8.3
75°	9.3	10.2	11.3	11.6	11.6	13.1	14.0	11.8	7.9	6.4	9.6
65°	13.3	13.7	13.9	14.6	14.2	11.7	9.0	8.7	15.7	5.1	11.4
55°	11.2	9.2	8.9	9.7	11.7	15.3	18.5	17.3	6.4	6.3	13.7
47.5°	21.1	21.7	23.5	20.7	18.1	12.8	8.7	6.6	6.8	7.4	15.7
42.5°	15.9	11.9	11.8	8.7	7.8	7.8	7.7	7.7	8.7	10.0	17.1
37.5°	13.8	12.3	11.2	10.1	10.0	10.4	11.1	12.4	12.7	12.0	18.2
33°	14.8	17.0	19.3	18.5	17.9	18.4	17.5	18.3	16.6	14.9	19.3
29°	20.3	19.2	18.6	20.9	18.9	19.8	19.0	17.2	17.6	19.3	20.4
25.5°	20.4	20.4	20.5	19.6	19.1	18.2	17.7	17.0	15.9	20.4	21.6
22.5°	20.1	17.4	15.7	15.9	15.5	14.8	14.2	14.3	14.2	20.8	22.6
19.5°	21.9	20.6	20.3	20.8	20.1	19.0	18.0	16.0	13.5	24.1	23.6
17°	28.9	27.5	27.1	26.5	25.3	24.3	23.8	21.0	14.6	27.8	24.0
15°	28.4	27.5	27.4	27.4	25.9	25.6	26.1	24.4	17.8	30.1	23.6
13°	29.9	28.3	29.1	29.1	28.2	27.0	26.5	25.3	22.4	31.4	23.1
11°	34.7	31.9	31.5	32.7	32.4	31.0	30.5	28.0	26.2	33.0	22.4
9°	41.5	38.0	36.9	38.1	38.1	36.7	36.4	33.7	30.7	35.5	21.2
7°	46.9	43.3	41.8	42.9	42.8	41.8	41.5	40.6	37.0	38.5	19.8
5°	46.8	42.8	42.5	43.2	43.5	42.9	45.0	47.3	46.7	42.8	19.0
3°	46.8	42.5	40.8	41.2	41.0	38.6	40.7	49.9	56.3	47.0	18.5
1°	46.0	42.2	40.6	40.1	37.1	33.6	35.1	45.9	64.4	49.9	18.3
0°	46.0	42.1	41.4	40.4	36.8	32.8	33.6	44.0	66.0	50.5	18.0
-1°	46.7	42.6	41.8	40.1	37.4	33.2	34.1	44.2	65.4	49.7	18.3
-3°	46.8	42.6	40.8	40.7	39.3	37.1	39.4	48.0	61.0	47.2	18.7
-5°	46.0	41.6	40.0	41.8	42.3	41.7	44.3	50.4	50.9	43.6	19.3
-7°	46.4	42.9	42.2	43.6	44.0	43.5	44.4	45.5	39.5	39.6	19.7
-9°	44.8	41.9	40.4	41.2	41.5	40.0	39.3	37.0	31.8	36.3	20.3
-11°	39.6	35.2	35.0	36.2	35.9	34.7	33.3	29.2	27.6	34.0	20.7
-13°	32.5	30.0	30.4	30.7	29.6	28.0	26.9	25.6	24.1	31.9	21.1
-15°	27.4	26.6	27.5	27.2	26.1	25.5	25.5	24.9	19.6	29.8	21.6
-17°	28.8	27.6	27.0	26.5	25.7	25.2	26.0	23.3	16.2	27.3	21.9
-19.5°	25.6	23.8	23.6	23.3	22.5	21.4	20.1	17.7	14.0	24.2	21.8
-22.5°	20.3	17.8	16.4	16.0	15.5	14.9	14.1	14.2	14.2	21.7	21.7
-25.5°	21.1	20.1	20.6	19.4	19.0	17.7	16.9	17.2	15.6	21.1	21.3
-29°	19.4	18.9	18.2	20.1	19.4	19.9	20.0	18.1	16.1	20.0	20.7
-33°	17.9	18.2	19.0	21.2	18.9	18.7	18.2	17.9	18.3	16.0	20.2
-37.5°	14.5	13.4	12.5	10.9	11.1	11.9	12.4	14.6	14.3	12.2	19.3
-42.5°	13.4	10.1	10.6	8.5	7.9	7.9	8.0	8.1	9.1	10.4	18.5
-47.5°	24.4	24.0	23.0	19.6	16.1	11.2	7.4	6.8	7.3	8.0	17.2
-55°	9.1	7.8	8.2	10.0	14.1	18.5	20.6	16.9	6.2	6.6	14.9
-65°	13.9	14.3	14.7	14.9	14.4	11.3	7.2	9.6	17.0	5.3	12.0
-75°	9.9	10.6	11.2	11.5	12.3	13.9	14.7	11.4	8.4	5.7	9.8
-85°	3.8	3.9	4.3	7.8	9.3	10.0	10.5	10.8	5.9	11.1	8.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°
90°	0.0
85°	0.0
75°	0.0
65°	0.0
55°	0.0
47.5°	0.0
42.5°	0.0
37.5°	0.0
33°	0.0
29°	0.0
25.5°	0.0
22.5°	0.0
19.5°	0.0
17°	0.0
15°	0.0
13°	0.0
11°	0.0
9°	0.0
7°	0.0
5°	0.0
3°	0.0
1°	0.0
0°	0.0
-1°	0.0
-3°	0.0
-5°	0.0
-7°	0.0
-9°	0.0
-11°	0.0
-13°	0.0
-15°	0.0
-17°	0.0
-19.5°	0.0
-22.5°	0.0
-25.5°	0.0
-29°	0.0
-33°	0.0
-37.5°	0.0
-42.5°	0.0
-47.5°	0.0
-55°	0.0
-65°	0.0
-75°	0.0
-85°	0.0
-90°	0.0

(END OF REPORT)