

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: ALL-PRO

Report Number: P13819

Luminaire Tested: **FES0650LPC**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P13819
Test Lab: INNOVATION CENTER P-1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: ALL-PRO
Catalog Number: FES0650LPC
Description: CONSUMER PRODUCTS WALL MOUNT 10W LED BRONZE FIXTURE WITH 1%
DIFFUSE JELLY JAR LENS.
Light Source: (20) SAMSUNG 4700K LEDS
SPMWHT5225D5WAP
Ballast/Driver: (1) AUROLITE ELECTRONIC DRIVER
AD100300-02

Summary

Lumens per Lamp: 1000 (20 lamps)
Luminaire Lumens: 599.6 lumens
Efficiency: 3.0%
Efficacy: 54.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.27' x H: 0.21')
IES Classification: Type IV - Short - Cutoff
BUG Rating: B0 - U3 - G1

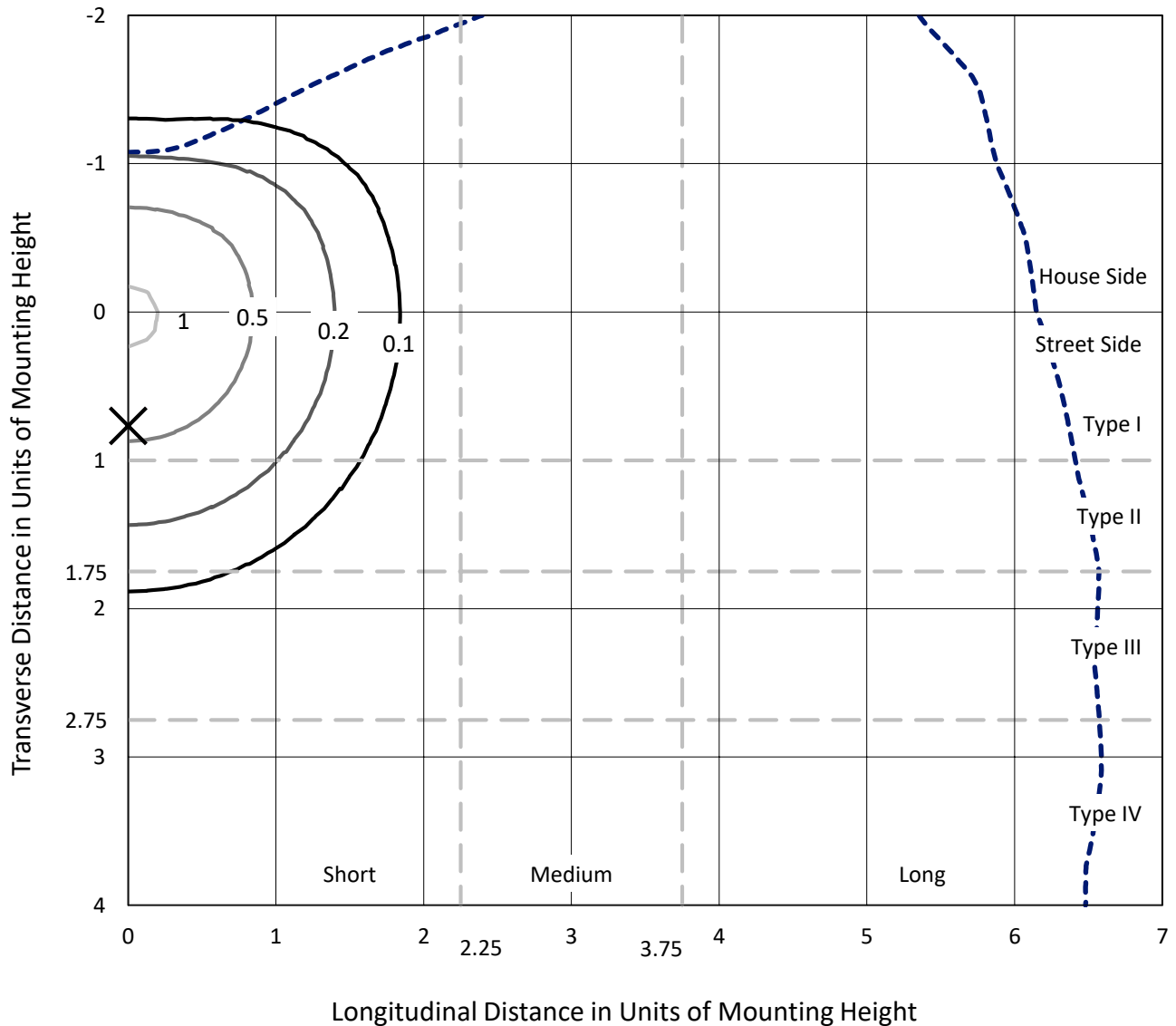
Input Watts (W): 11
Input Voltage (V): NR
Input Current (Ain): 0.16526
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

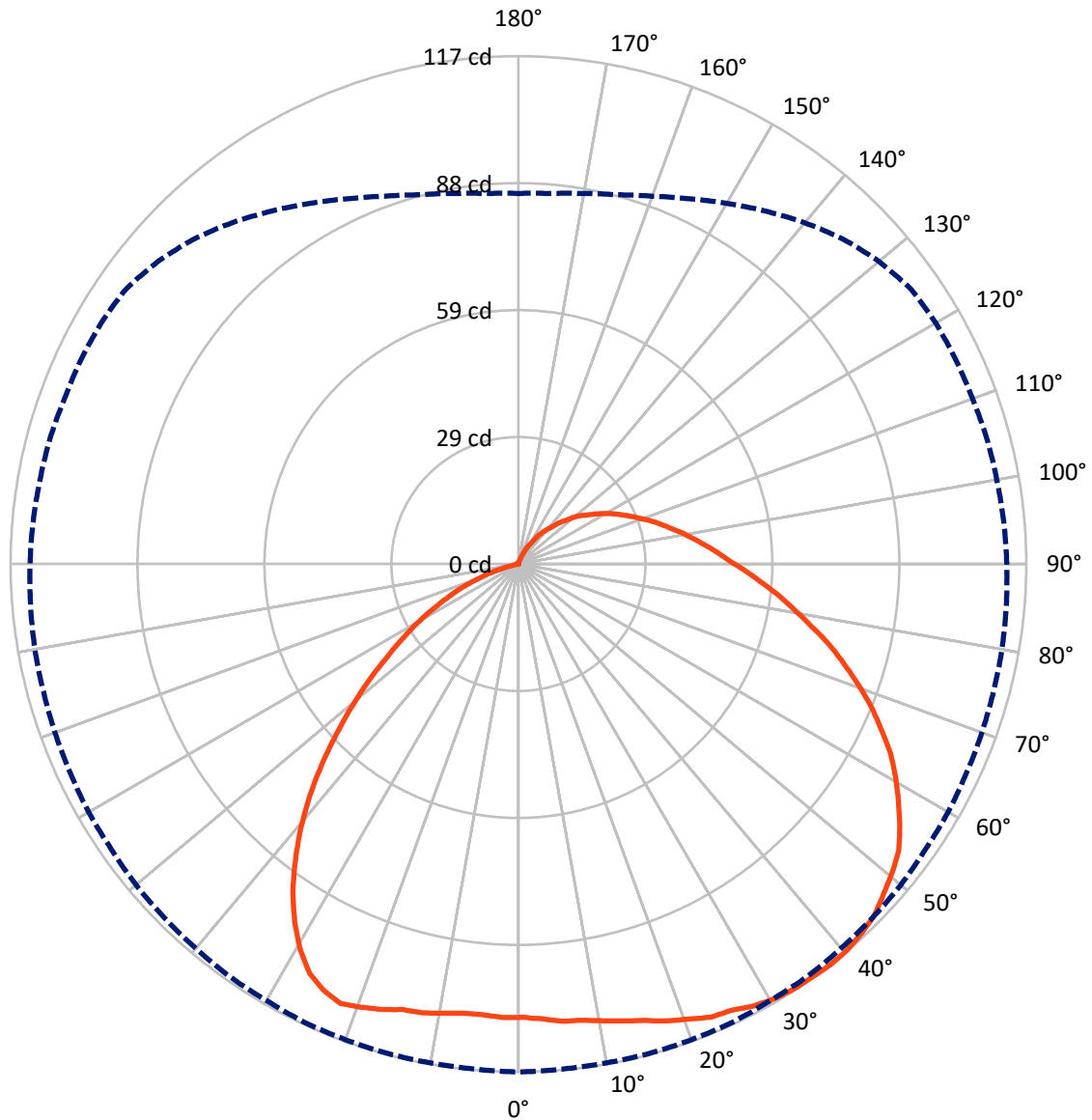
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Short - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 37.5-Deg Vertical

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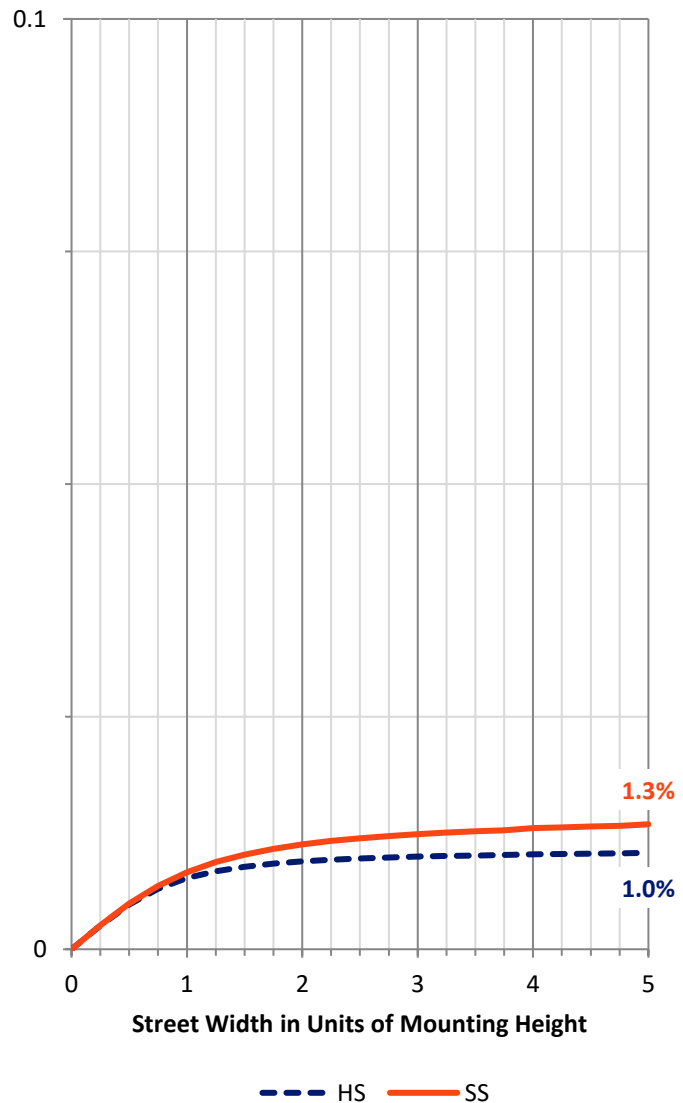
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	214.0	30.2	244.2
	% Lamp	1.1	0.2	1.2
Street Side	Lumens	286.0	69.4	355.4
	% Lamp	1.4	0.3	1.8
Total	Lumens	500.0	99.6	599.6
	% Lamp	2.5	0.5	3.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	10.1	1.7	0.1
10°-20°	30.7	5.1	0.2
20°-30°	51.7	8.6	0.3
30°-40°	69.0	11.5	0.3
40°-50°	78.9	13.2	0.4
50°-60°	80.1	13.4	0.4
60°-70°	73.0	12.2	0.4
70°-80°	60.1	10.0	0.3
80°-90°	46.5	7.8	0.2
90°-100°	34.9	5.8	0.2
100°-110°	25.6	4.3	0.1
110°-120°	17.8	3.0	0.1
120°-130°	11.5	1.9	0.1
130°-140°	6.3	1.1	0.0
140°-150°	2.7	0.5	0.0
150°-160°	0.7	0.1	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	500.0	83.4	2.5
0°-180°	599.6	100.0	3.0

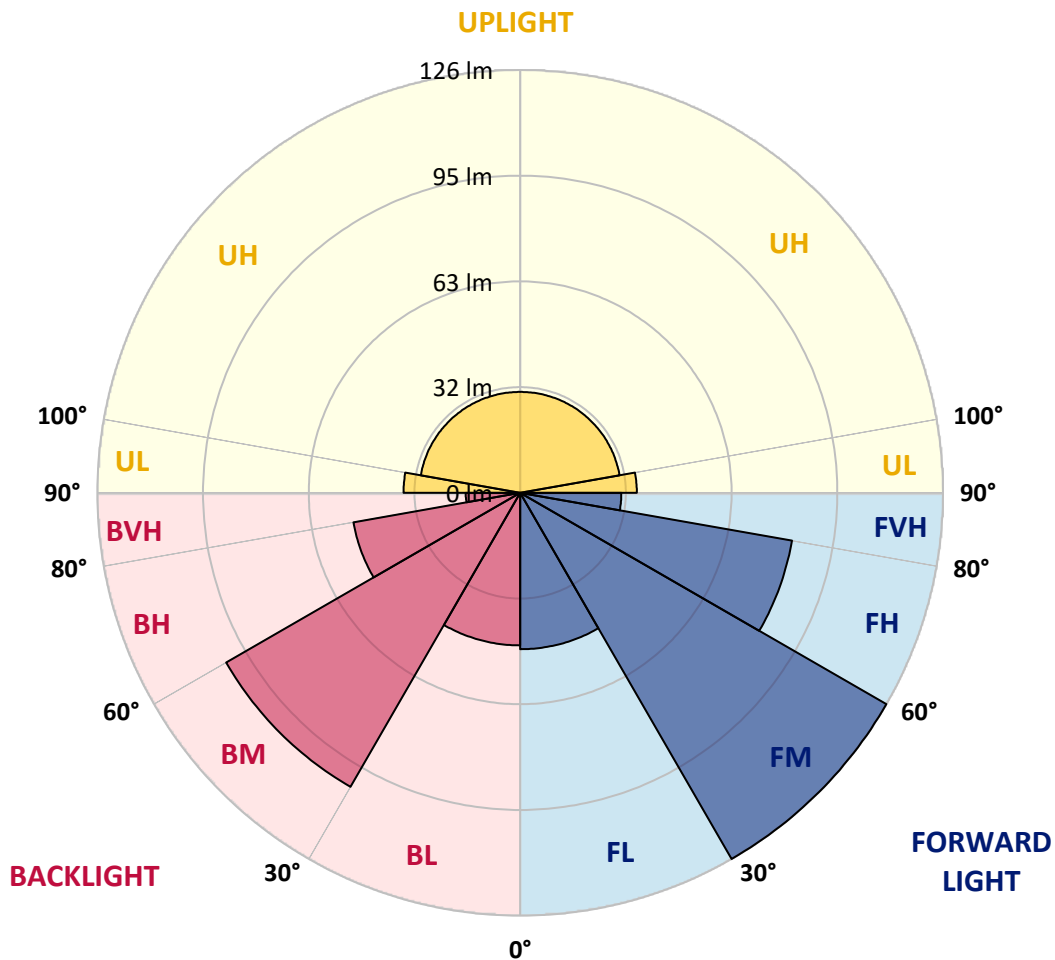


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	46.8	0.2			
FM (30°-60°)	126.4	0.6			
FH (60°-80°)	82.5	0.4			G0/660
FVH (80°-90°)	30.3	0.2			G1/100
BL (0°-30°)	45.6	0.2	B0/110		
BM (30°-60°)	101.5	0.5	B0/220		
BH (60°-80°)	50.6	0.3	B0/110		G0/110
BVH (80°-90°)	16.3	0.1			G1/100
UL (90°-100°)	34.9	0.2		U2/50	
UH (100°-180°)	30.2	0.2		U2/50	
Trapped Light	19400.4	97.0			

BUG Rating: B0-U3-G1
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6
2.5°	105.1	104.9	105.0	105.2	105.1	105.0	105.0	104.9	105.0	105.0	105.0
5°	106.0	105.5	105.5	105.5	105.5	105.6	105.3	105.4	105.3	105.3	105.3
7.5°	106.3	106.3	106.2	106.3	106.2	106.2	106.1	106.1	106.0	106.0	106.1
10°	107.2	107.2	107.3	107.2	107.1	107.2	107.0	107.1	106.9	107.0	106.8
12.5°	108.2	108.2	108.1	108.2	108.2	108.0	108.1	107.9	108.0	107.8	107.8
15°	109.3	109.1	109.2	109.3	109.1	109.1	109.1	109.0	108.9	108.8	108.8
17.5°	110.9	110.7	110.8	110.7	110.7	110.6	110.6	110.5	110.3	110.2	110.2
20°	112.1	112.1	112.3	112.2	111.9	111.9	112.0	111.8	111.7	111.5	111.4
22.5°	113.6	113.4	113.5	113.4	113.4	113.3	113.1	112.9	112.8	112.6	112.6
25°	114.1	114.0	114.3	114.1	113.8	113.8	113.6	113.5	113.3	113.0	112.9
27.5°	115.5	115.3	115.3	115.3	115.3	115.0	114.9	114.7	114.4	114.3	114.1
30°	116.4	116.4	116.2	116.1	116.0	115.7	115.8	115.7	115.2	115.2	114.7
32.5°	116.9	116.7	116.7	116.6	116.4	116.4	116.2	116.0	115.7	115.5	115.1
35°	117.0	117.0	116.8	116.9	116.6	116.5	116.4	116.1	115.8	115.7	115.2
37.5°	117.2	117.0	116.9	116.9	116.8	116.7	116.3	116.2	115.8	115.5	115.2
40°	117.0	116.9	116.7	116.8	116.8	116.3	116.2	115.8	115.5	115.3	114.7
42.5°	116.3	116.2	116.2	116.1	115.9	115.8	115.5	115.3	114.9	114.6	114.1
45°	115.3	115.2	115.2	115.1	114.8	114.7	114.4	114.2	113.9	113.6	113.0
47.5°	113.5	113.5	113.3	113.3	113.2	112.8	112.8	112.3	112.0	111.7	111.3
50°	111.8	111.8	111.7	111.8	111.5	111.3	111.0	110.8	110.3	109.8	109.3
52.5°	109.9	109.9	109.7	109.6	109.3	109.2	108.8	108.4	108.3	107.6	107.2
55°	106.8	106.6	106.6	106.5	106.4	106.2	105.9	105.6	105.1	104.7	104.2
57.5°	103.4	103.4	103.4	103.5	103.2	102.9	102.7	102.4	102.1	101.7	101.0
60°	100.0	100.0	100.1	100.0	99.9	99.7	99.4	99.0	98.8	98.2	97.6
62.5°	96.4	96.3	96.3	96.2	96.2	96.0	95.8	95.5	94.9	94.5	94.0
65°	92.0	91.9	92.0	92.0	91.9	91.8	91.5	91.2	90.8	90.3	89.7
67.5°	87.8	87.8	87.8	87.8	87.8	87.6	87.4	87.0	86.5	86.1	85.6
70°	83.1	82.9	82.9	82.9	83.0	82.8	82.6	82.2	82.1	81.6	80.8
72.5°	78.5	78.5	78.5	78.6	78.6	78.6	78.4	78.1	77.7	77.2	76.8
75°	74.0	74.1	74.3	74.2	74.4	74.1	73.8	73.8	73.2	73.0	72.5
77.5°	69.1	69.3	69.3	69.4	69.5	69.3	69.2	68.9	68.5	68.2	67.7
80°	64.7	64.6	64.8	65.1	64.9	65.1	64.7	64.5	64.2	63.8	63.4
82.5°	60.7	60.7	60.9	61.0	61.0	61.0	60.8	60.6	60.2	59.9	59.4
85°	56.5	57.0	56.8	57.0	57.0	57.0	56.9	56.6	56.4	56.0	55.5
87.5°	52.8	52.7	52.8	53.1	53.1	53.1	53.0	52.7	52.5	52.2	51.8
90°	49.1	49.3	49.4	49.4	49.5	49.6	49.4	49.2	49.1	48.8	48.3
92.5°	46.3	46.2	46.6	46.6	46.5	46.7	46.5	46.4	46.0	45.7	45.5
95°	43.6	43.5	43.7	43.8	43.8	43.8	43.7	43.5	43.3	42.9	42.7
97.5°	41.0	41.4	41.1	41.5	41.4	41.2	41.2	41.0	40.8	40.8	40.2
100°	38.7	38.7	38.7	38.8	38.9	38.9	38.8	38.7	38.4	38.2	37.7
102.5°	36.3	36.3	36.4	36.5	36.4	36.6	36.5	36.2	36.1	35.9	35.9
105°	34.2	34.0	34.2	34.4	34.3	34.3	34.1	34.1	33.9	33.6	33.3
107.5°	32.2	32.2	32.2	32.3	32.2	32.3	32.2	32.1	31.8	31.7	31.4
110°	30.0	30.0	30.0	30.2	30.1	30.0	30.2	29.9	29.9	29.5	29.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	28.2	28.2	28.3	28.3	28.3	28.3	28.3	28.1	28.0	27.7	27.4
115°	26.4	26.3	26.2	26.3	26.2	26.2	26.2	26.1	25.9	25.7	25.5
117.5°	24.7	24.8	24.6	24.7	24.6	24.6	24.5	24.4	24.3	24.1	23.9
120°	22.9	23.3	23.0	22.8	23.0	23.0	22.8	22.6	22.6	22.6	22.1
122.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.1	21.0	21.0	20.7	20.6
125°	19.4	19.4	19.4	19.5	19.4	19.3	19.3	19.1	19.0	18.9	18.7
127.5°	18.1	18.0	18.1	18.1	17.9	18.0	17.9	17.7	17.6	17.6	17.4
130°	16.5	16.4	16.4	16.4	16.4	16.3	16.3	16.3	16.1	15.9	15.9
132.5°	14.7	14.7	14.8	14.7	14.7	14.6	14.7	14.7	14.5	14.3	14.1
135°	13.3	13.3	13.3	13.3	13.2	13.3	13.1	13.1	12.9	12.9	12.7
137.5°	11.4	11.4	11.5	11.5	11.5	11.4	11.3	11.3	11.3	11.1	11.0
140°	10.3	10.3	10.3	10.2	10.1	10.2	10.1	10.1	10.0	9.8	9.6
142.5°	9.0	8.9	8.8	8.8	8.8	8.8	8.7	8.6	8.6	8.6	8.5
145°	7.7	7.4	7.4	7.3	7.4	7.3	7.4	7.2	7.2	7.2	7.1
147.5°	5.9	5.9	5.9	6.1	5.9	6.0	5.9	6.1	5.9	5.8	5.7
150°	4.9	4.9	4.8	4.8	4.9	4.8	4.8	4.8	4.7	4.6	4.6
152.5°	3.9	3.7	3.7	3.7	3.6	3.7	3.6	3.5	3.6	3.5	3.4
155°	2.7	2.6	2.7	2.7	2.7	2.6	2.7	2.6	2.6	2.5	2.5
157.5°	1.7	1.8	1.7	1.7	1.8	1.8	1.8	1.7	1.6	1.7	1.7
160°	1.0	0.9	0.9	1.0	0.9	0.9	1.0	0.9	0.8	0.8	0.9
162.5°	0.3	0.3	0.4	0.3	0.2	0.3	0.3	0.3	0.3	0.2	0.3
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6
2.5°	104.9	104.9	104.8	104.8	104.8	104.7	104.9	104.8	104.6	104.7	104.6
5°	105.3	105.3	105.3	105.0	105.1	105.1	105.0	105.0	105.0	105.0	104.8
7.5°	105.8	105.8	105.9	105.8	105.8	105.6	105.5	105.3	105.3	105.2	105.1
10°	106.7	106.7	106.6	106.5	106.3	106.3	106.2	106.0	105.9	105.8	105.8
12.5°	107.6	107.6	107.5	107.3	107.1	107.0	107.0	106.8	106.8	106.5	106.7
15°	108.7	108.6	108.4	108.2	108.1	107.9	107.8	107.8	107.6	107.3	107.3
17.5°	110.1	110.0	109.7	109.7	109.5	109.3	109.2	109.0	108.8	109.0	108.5
20°	111.3	111.1	111.0	110.9	110.7	110.5	110.4	110.1	110.1	109.8	109.6
22.5°	112.3	112.3	112.1	111.9	111.7	111.6	111.6	111.2	111.0	110.8	110.7
25°	113.0	112.4	112.6	112.4	112.2	111.8	111.6	111.5	111.2	111.1	110.9
27.5°	113.9	113.8	113.6	113.5	113.2	112.9	112.8	112.5	112.3	112.2	111.8
30°	114.5	114.4	114.1	113.9	113.8	113.4	113.6	113.0	112.8	112.5	112.4
32.5°	114.8	114.5	114.3	114.1	114.0	113.7	113.4	113.2	112.9	112.6	112.4
35°	114.9	114.5	114.2	114.1	113.9	113.4	113.3	113.0	112.7	112.5	112.2
37.5°	114.7	114.5	114.1	113.8	113.5	113.3	113.0	112.7	112.4	112.1	111.9
40°	114.5	113.9	113.5	113.3	113.0	112.7	112.4	112.1	111.9	111.5	111.3
42.5°	113.6	113.3	112.9	112.6	112.2	111.9	111.5	111.2	110.9	110.5	110.2
45°	112.5	111.9	111.6	111.2	110.8	110.5	110.2	109.8	109.6	109.2	109.0
47.5°	110.5	110.2	109.9	109.3	109.0	108.7	108.0	107.9	107.5	107.1	106.9
50°	108.9	108.4	108.0	107.4	107.1	106.7	106.3	106.0	105.6	105.1	104.9
52.5°	106.6	106.2	105.7	105.2	104.7	104.5	103.9	103.6	103.2	102.8	102.4
55°	103.7	103.0	102.5	102.1	101.6	101.2	100.8	100.5	100.1	99.7	99.4
57.5°	100.3	99.9	99.2	98.8	98.6	98.0	97.6	97.0	96.8	96.4	96.6
60°	97.1	96.4	96.0	95.4	94.9	94.6	94.1	93.7	93.5	93.1	92.7
62.5°	93.3	92.9	92.1	91.6	91.2	90.9	90.4	90.0	89.6	89.3	89.1
65°	89.2	88.5	87.9	87.4	86.9	86.6	86.1	85.8	85.4	85.0	84.8
67.5°	85.3	84.6	83.9	83.4	82.9	82.4	82.1	81.6	81.3	80.9	80.8
70°	80.2	79.6	79.1	78.7	78.2	77.8	77.3	77.2	76.6	76.5	76.1
72.5°	76.0	75.6	75.0	74.5	74.1	73.7	73.2	73.0	72.5	72.3	72.1
75°	71.8	71.1	70.6	70.3	69.7	69.3	68.9	68.6	68.2	67.8	67.5
77.5°	67.2	66.7	66.1	65.6	65.0	64.7	64.3	64.0	63.7	63.3	63.1
80°	62.7	62.4	61.7	61.2	61.2	60.5	60.2	59.7	59.6	59.3	59.3
82.5°	59.0	58.4	58.1	57.6	57.2	56.8	56.3	56.0	55.8	55.4	55.4
85°	55.4	54.7	54.2	53.8	53.4	52.9	52.6	52.3	51.9	51.7	51.4
87.5°	51.3	50.8	50.4	50.0	49.7	49.2	48.8	48.4	48.1	47.7	47.6
90°	47.9	47.5	47.1	46.6	46.3	45.8	45.4	45.0	44.7	44.2	43.7
92.5°	45.0	44.7	44.0	43.8	43.4	42.8	42.2	42.1	41.6	40.9	40.4
95°	42.4	41.9	41.4	41.0	40.7	40.1	39.7	39.1	38.5	38.0	37.3
97.5°	39.6	39.4	39.0	38.5	38.0	37.7	37.1	36.6	36.1	35.3	34.6
100°	37.4	37.1	36.6	36.2	35.8	35.2	34.5	34.0	33.4	32.7	32.0
102.5°	35.2	34.7	34.3	33.9	33.7	32.8	32.4	31.7	31.0	30.4	29.7
105°	33.2	32.6	32.2	31.8	31.3	30.7	30.1	29.7	28.9	28.2	27.4
107.5°	31.2	30.7	30.4	29.9	29.4	29.0	28.2	27.7	27.0	26.3	25.5
110°	29.0	28.7	28.3	27.7	27.2	26.9	26.2	25.5	24.9	24.3	23.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	27.2	26.9	26.5	26.1	25.6	24.9	24.4	23.8	23.2	22.5	21.7
115°	25.2	24.8	24.6	24.3	23.8	23.0	22.6	22.1	21.5	20.6	19.7
117.5°	23.6	23.4	23.0	22.5	22.0	21.5	20.9	20.4	19.7	19.2	18.3
120°	21.9	21.8	21.4	21.0	20.5	20.0	19.4	18.8	18.1	17.5	16.7
122.5°	20.4	20.1	19.8	19.2	18.8	18.4	17.8	17.2	16.7	16.0	15.1
125°	18.5	18.1	17.8	17.5	17.2	16.6	16.1	15.5	14.9	14.3	13.4
127.5°	17.1	16.8	16.6	16.3	16.0	15.4	14.8	14.4	13.7	13.0	12.3
130°	15.5	15.3	15.0	14.7	14.4	13.9	13.4	12.8	12.3	11.8	11.0
132.5°	13.9	13.6	13.4	13.0	12.7	12.3	11.9	11.4	10.9	10.2	9.5
135°	12.6	12.2	12.1	11.8	11.4	11.0	10.6	10.2	9.6	9.0	8.5
137.5°	10.8	10.8	10.4	10.2	10.1	9.5	9.3	8.5	8.2	7.6	7.0
140°	9.6	9.4	9.2	9.0	8.6	8.3	8.0	7.6	7.1	6.6	6.1
142.5°	8.2	8.2	7.9	7.7	7.3	7.1	6.8	6.5	6.0	5.4	4.9
145°	6.9	6.8	6.6	6.3	6.1	5.8	5.6	5.3	4.8	4.4	4.0
147.5°	5.6	5.3	5.3	5.0	5.0	4.5	4.4	4.0	3.7	3.4	2.8
150°	4.5	4.5	4.3	4.1	3.9	3.8	3.4	3.3	3.0	2.6	2.3
152.5°	3.4	3.2	3.2	3.1	2.9	2.6	2.5	2.4	2.1	1.7	1.6
155°	2.5	2.4	2.3	2.1	2.1	1.9	1.8	1.6	1.3	1.2	1.0
157.5°	1.5	1.7	1.5	1.4	1.3	1.2	1.1	1.0	0.9	0.8	0.6
160°	0.8	0.9	0.7	0.8	0.6	0.6	0.6	0.5	0.4	0.3	0.1
162.5°	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6
2.5°	104.7	104.5	104.7	104.5	104.5	104.6	104.4	104.4	104.6	104.4	104.4
5°	104.8	104.6	104.6	104.6	104.5	104.7	104.5	104.5	104.5	104.5	104.3
7.5°	105.2	105.0	104.9	104.9	104.8	104.7	104.6	104.7	104.5	104.5	104.6
10°	105.7	105.4	105.3	105.4	105.3	105.2	105.1	105.3	105.1	105.0	105.1
12.5°	106.4	106.1	106.3	106.0	105.9	106.1	105.8	105.8	106.1	105.7	105.7
15°	107.1	107.1	107.0	106.8	106.7	106.7	106.5	106.6	106.5	106.5	106.5
17.5°	108.3	108.3	108.2	107.9	107.9	107.9	107.8	107.8	107.8	107.6	107.6
20°	109.5	109.5	109.2	109.2	109.1	109.0	109.0	108.8	108.7	108.7	108.5
22.5°	110.5	110.4	110.2	110.1	109.9	109.9	109.7	109.8	109.6	109.5	109.4
25°	110.7	110.6	110.4	110.3	110.3	110.1	109.9	109.9	109.7	109.5	109.2
27.5°	111.7	111.7	111.4	111.2	111.2	111.0	110.8	110.5	109.9	108.9	108.0
30°	112.1	112.1	111.8	111.7	111.4	111.2	110.7	109.4	108.0	106.4	105.1
32.5°	112.2	112.0	111.9	111.7	111.4	110.6	109.0	106.8	104.7	102.7	100.8
35°	111.9	111.9	111.6	111.3	110.5	108.6	106.1	103.3	100.7	98.0	96.0
37.5°	111.5	111.4	111.2	110.6	108.6	106.0	102.8	99.4	96.1	93.0	90.3
40°	110.9	110.8	110.4	108.9	106.3	103.0	99.4	95.3	91.4	87.6	84.3
42.5°	110.0	109.8	109.1	107.0	103.9	99.9	95.7	90.9	86.4	82.1	78.3
45°	108.7	108.5	107.1	104.6	100.8	96.5	91.6	86.5	81.4	76.5	72.0
47.5°	106.8	106.2	104.7	101.6	97.6	92.7	87.2	81.5	75.7	70.2	65.3
50°	104.7	104.3	102.5	98.9	94.5	89.0	83.1	76.8	70.7	64.7	59.2
52.5°	102.2	102.0	99.9	95.9	90.7	85.1	78.9	72.2	65.2	59.1	53.3
55°	99.1	98.7	96.4	92.2	86.9	80.7	74.1	66.9	60.0	53.2	47.2
57.5°	95.8	95.3	92.9	88.5	82.9	76.4	69.5	62.2	54.9	48.0	42.1
60°	92.3	92.0	89.4	84.7	79.1	72.4	65.2	57.7	50.2	43.4	37.0
62.5°	88.7	88.3	86.0	80.8	74.9	68.3	61.0	53.3	45.9	38.7	32.4
65°	84.5	84.0	81.6	76.8	70.6	63.8	56.5	48.9	41.4	34.3	27.9
67.5°	80.5	80.1	77.6	72.5	66.5	59.8	52.4	44.9	37.6	30.5	24.0
70°	75.9	75.5	73.1	67.8	61.9	55.3	48.2	40.7	33.3	26.2	20.1
72.5°	71.7	71.5	69.1	64.0	58.0	51.4	44.4	37.0	29.8	22.8	16.4
75°	67.4	67.4	64.9	59.8	54.1	47.4	40.6	33.3	26.2	19.5	13.2
77.5°	63.0	62.7	60.6	55.6	49.7	43.2	36.5	29.4	22.6	15.9	9.7
80°	58.7	58.5	56.4	51.7	46.0	39.7	33.0	26.6	19.7	13.3	7.7
82.5°	55.0	54.7	52.7	48.2	42.8	37.0	30.8	24.7	18.4	12.4	7.0
85°	51.1	50.9	48.8	44.7	39.5	34.1	28.5	22.7	17.0	11.5	6.5
87.5°	47.3	46.7	44.7	40.9	36.0	31.0	26.0	20.6	15.5	10.4	5.6
90°	43.4	42.7	40.9	37.0	32.8	28.2	23.3	18.6	13.9	9.4	5.1
92.5°	40.0	39.1	37.3	33.8	29.8	25.6	21.2	16.8	12.7	8.4	4.6
95°	36.8	35.8	34.3	31.1	27.3	23.3	19.3	15.4	11.6	7.8	4.2
97.5°	33.9	33.4	31.2	28.6	25.0	21.4	17.6	14.0	10.5	7.2	3.9
100°	31.2	30.3	28.8	26.1	23.0	19.7	16.1	12.8	9.5	6.3	3.2
102.5°	28.8	27.7	26.3	23.8	20.9	17.8	14.6	11.9	8.4	5.4	2.7
105°	26.6	25.6	24.1	21.7	19.2	16.2	13.3	10.4	7.5	4.8	2.3
107.5°	24.6	23.5	22.3	20.1	17.5	15.1	12.2	9.4	6.9	4.4	2.0
110°	22.5	21.4	20.1	18.1	15.9	13.3	10.8	8.2	5.9	3.5	1.4



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°	
112.5°	20.8	19.7	18.5	16.7	14.5	12.2	9.8	7.6	5.4	3.1	1.4	0°
115°	18.7	17.7	16.7	15.0	13.0	10.9	8.6	6.9	4.4	2.6	0.8	2.5°
117.5°	17.3	16.3	15.2	13.7	11.9	10.0	7.8	5.9	4.0	2.2	0.6	5°
120°	15.8	15.2	13.5	12.2	10.7	8.9	6.8	5.1	3.3	1.9	0.4	7.5°
122.5°	14.2	13.2	12.3	10.8	9.4	7.7	6.0	4.3	2.8	1.4	0.3	10°
125°	12.7	11.7	10.7	9.3	7.9	6.5	5.0	3.4	2.0	0.8	0.0	12.5°
127.5°	11.5	10.6	9.5	8.3	7.2	5.9	4.3	3.0	1.8	0.7	0.1	15°
130°	10.2	9.2	8.4	7.2	6.1	4.8	3.6	2.4	1.3	0.4	0.0	17.5°
132.5°	8.8	8.0	7.1	6.0	4.8	3.9	2.8	1.7	0.9	0.1	0.0	20°
135°	7.7	6.9	6.1	5.2	4.2	3.2	2.2	1.3	0.5	0.1	0.1	22.5°
137.5°	6.2	5.5	4.8	4.0	3.1	2.2	1.4	0.9	0.2	0.0	0.0	25°
140°	5.4	4.7	4.0	3.3	2.5	1.9	1.0	0.5	0.1	0.0	0.0	27.5°
142.5°	4.4	3.9	3.1	2.5	2.0	1.2	0.6	0.2	0.0	0.0	0.1	30°
145°	3.5	3.0	2.5	1.8	1.3	0.9	0.4	0.1	0.0	0.0	0.0	32.5°
147.5°	2.5	2.0	1.7	1.0	0.7	0.3	0.1	0.0	0.0	0.0	0.0	35°
150°	1.9	1.6	1.2	0.8	0.5	0.3	0.0	0.0	0.0	0.0	0.0	37.5°
152.5°	1.3	1.0	0.6	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	40°
155°	0.8	0.5	0.3	0.2	0.1	0.0	0.0	0.0	0.1	0.0	0.0	42.5°
157.5°	0.5	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°
160°	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	47.5°
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°
170°	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°
												110°

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DISTRIBUTION (continued):

165°	170°	175°	180°
104.6	104.6	104.6	104.6
104.6	104.5	104.5	104.7
104.4	104.3	104.4	104.3
104.8	104.5	104.5	104.4
105.0	105.0	105.0	105.1
105.7	105.5	105.6	105.9
106.3	106.4	106.4	106.2
107.7	107.4	107.6	107.5
108.5	108.6	108.5	108.5
109.4	109.5	109.3	109.4
108.9	108.6	108.4	108.2
107.6	106.4	106.2	106.1
103.9	102.9	102.4	102.2
99.4	98.4	97.7	97.4
94.4	93.0	91.9	91.9
88.2	86.8	85.8	85.5
82.0	80.2	79.5	78.9
75.2	73.2	72.3	71.9
68.5	66.0	64.8	64.6
61.3	58.6	57.5	57.2
54.8	51.8	50.7	50.4
48.8	45.0	44.5	43.9
42.3	38.7	38.0	37.5
36.7	33.1	32.6	32.2
31.6	27.9	27.3	27.4
27.1	23.3	22.8	22.7
22.3	18.7	18.2	18.3
18.5	15.0	14.5	14.6
14.3	10.8	10.5	10.5
11.0	7.7	7.4	7.4
7.6	4.4	4.4	4.1
4.2	1.3	1.1	1.0
2.5	0.3	0.0	0.2
2.5	0.1	0.1	0.0
2.4	0.1	0.1	0.2
1.8	0.0	0.0	0.0
1.4	0.0	0.0	0.0
1.2	0.1	0.0	0.0
1.2	0.0	0.0	0.0
1.2	0.1	0.2	0.0
0.9	0.1	0.1	0.0
0.6	0.0	0.2	0.4
0.5	0.0	0.0	0.0
0.5	0.1	0.1	0.0
0.1	0.0	0.0	0.0

CANDELA DISTRIBUTION:

	165°
112.5°	0.2
115°	0.0
117.5°	0.0
120°	0.2
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0



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TION (continued):

170°	175°	180°
0.0	0.0	0.1
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.2	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.1	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.2
0.0	0.0	0.0
0.0	0.2	0.0
0.0	0.0	0.0
0.0	0.0	0.2
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.1	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	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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