

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: PORTFOLIO

Report Number: P858908

Luminaire Tested: **LX4C05D010 EX4C059850 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P858908
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-1)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C05D010 EX4C059850 4LBLWW*
Description:
Light Source: -
Ballast/Driver: -

Summary

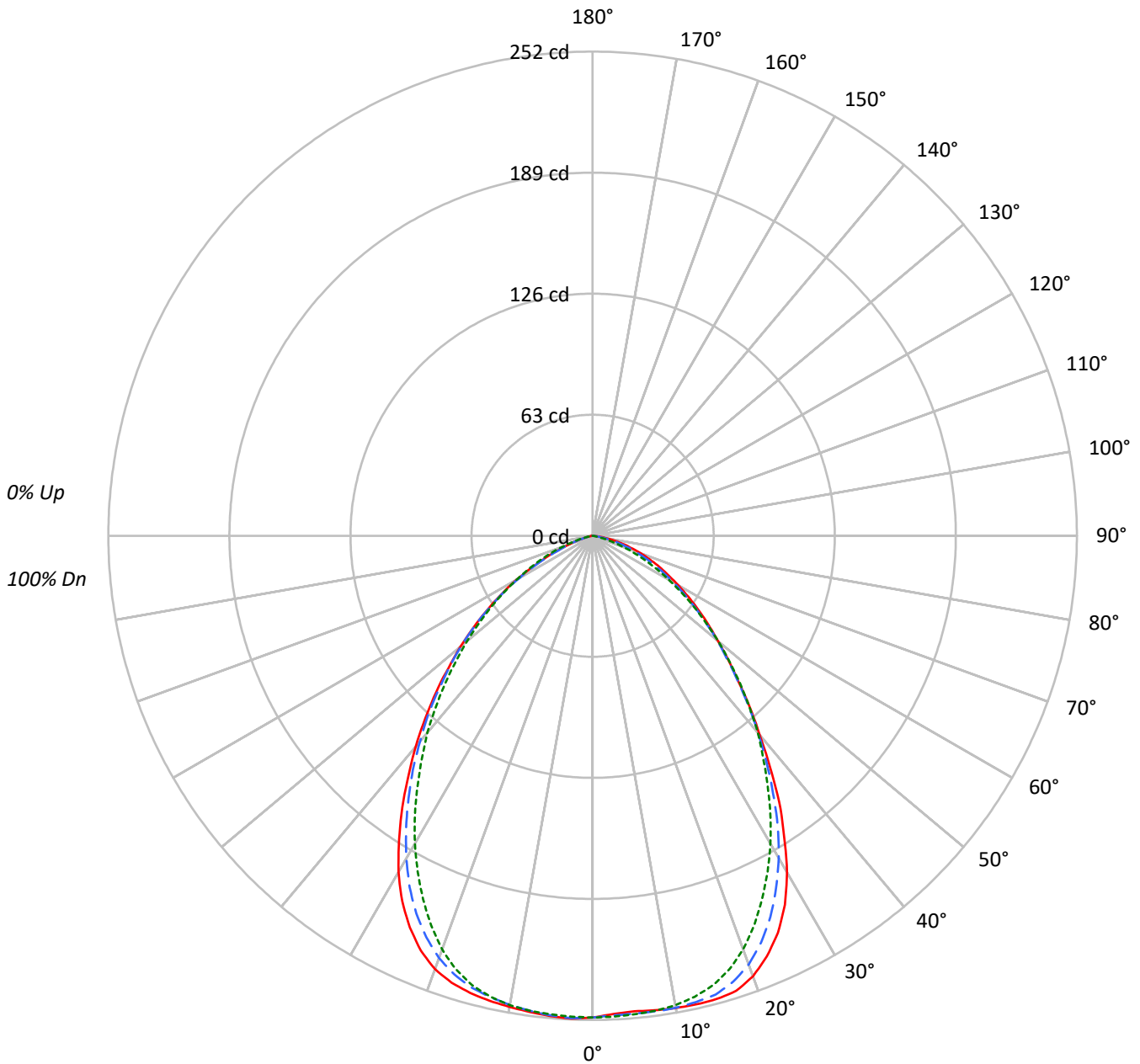
Lumens per Lamp: N/A
Luminaire Lumens: 480.7 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
Input Voltage (V):
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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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54																			
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48																			
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43																			
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39																			
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36																			
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	30799	30799	30799
5°	30633	30831	30954
10°	31137	30950	31062
15°	31746	30805	31326
20°	31900	29952	31377
25°	30920	28290	30500
30°	28698	26244	28656
35°	25406	23801	25886
40°	21667	21442	22966
45°	18608	18816	19998
50°	16246	16284	17144
55°	14372	13751	14201
60°	12580	11229	11180
65°	11134	8721	7762
70°	9519	5999	4598
75°	7690	3228	2136
80°	5235	849	495
85°	1692	282	282



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.8	5.0
10°-20°	69.0	14.4
20°-30°	99.7	20.7
30°-40°	103.0	21.4
40°-50°	85.1	17.7
50°-60°	58.8	12.2
60°-70°	30.8	6.4
70°-80°	9.7	2.0
80°-90°	0.8	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	192.5	40.0
0°-40°	295.5	61.5
0°-60°	439.4	91.4
0°-90°	480.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	480.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	251	251	251	251	251	
5°	248	250	250	250	251	24
15°	250	247	242	243	246	70
25°	228	219	209	217	225	104
35°	169	164	159	167	173	105
45°	107	107	108	113	115	84
55°	67	65	64	66	66	60
65°	38	35	30	25	27	38
75°	16	13	7	5	4	17
85°	1	0	0	0	0	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	250.7	250.7	250.7	250.7	250.7	250.7	250.7	250.7	250.7	250.7	250.7
2.5°	249.1	249.2	249.2	249.4	249.4	249.4	249.5	249.5	249.6	249.7	249.8
5°	248.4	248.4	248.5	248.6	248.8	248.9	249.1	249.2	249.4	249.5	249.6
7.5°	249.1	249.1	249.2	249.3	249.3	249.4	249.4	249.5	249.6	249.7	249.7
10°	249.6	249.6	249.6	249.6	249.7	249.7	249.7	249.6	249.6	249.6	249.5
12.5°	249.8	249.8	249.7	249.6	249.7	249.6	249.6	249.3	249.1	248.9	248.6
15°	249.6	249.6	249.5	249.4	249.3	249.1	249.0	248.5	248.2	247.6	247.2
17.5°	248.4	248.2	248.0	247.8	247.4	247.1	246.9	246.1	245.4	244.5	243.4
20°	244.0	243.8	243.5	243.1	242.6	242.2	241.7	240.4	239.8	238.4	237.4
22.5°	236.9	236.8	236.8	236.0	235.1	234.5	234.2	233.1	231.9	230.2	229.1
25°	228.1	227.6	227.6	226.2	225.8	225.3	224.9	223.6	222.0	220.3	218.9
27.5°	216.6	215.9	215.5	215.3	214.2	213.3	212.7	211.7	210.4	208.9	206.8
30°	202.3	202.2	201.7	200.9	200.0	199.7	198.9	197.3	196.0	194.9	193.7
32.5°	185.5	185.4	185.4	185.4	184.8	184.7	183.6	182.7	181.7	180.1	179.2
35°	169.4	169.3	169.4	168.0	167.6	167.4	167.3	166.8	165.3	164.5	163.8
37.5°	151.4	151.7	151.5	151.1	151.6	150.7	151.4	150.2	149.6	149.4	148.6
40°	135.1	135.8	135.1	135.2	135.6	134.8	134.8	134.7	134.2	134.0	133.9
42.5°	121.2	120.2	120.8	120.3	120.8	120.5	120.0	120.3	120.4	120.0	119.9
45°	107.1	107.4	107.5	107.2	107.2	106.9	107.7	107.2	107.2	107.4	106.7
47.5°	95.8	95.5	95.7	95.5	95.6	95.3	95.6	95.7	95.5	95.5	94.9
50°	85.0	84.8	85.5	84.9	84.9	84.8	84.9	84.7	84.4	84.4	84.6
52.5°	75.7	75.4	75.3	75.7	75.0	75.0	75.1	74.9	74.5	74.4	73.9
55°	67.1	67.0	67.1	66.6	66.4	66.4	66.0	65.8	65.7	65.3	64.9
57.5°	58.9	58.7	58.8	58.7	58.2	58.1	57.8	57.8	57.4	57.1	56.5
60°	51.2	51.2	51.5	51.1	50.8	50.7	50.5	50.3	49.6	49.0	48.4
62.5°	44.3	44.4	44.3	44.1	43.9	43.7	43.5	42.9	42.4	42.0	41.3
65°	38.3	38.3	37.9	37.7	37.3	37.3	36.9	36.7	35.9	35.4	34.8
67.5°	32.1	31.9	31.9	31.9	31.4	31.3	31.0	30.5	30.0	29.2	28.6
70°	26.5	26.7	26.4	26.0	25.8	25.7	25.4	24.9	24.2	23.5	23.0
72.5°	21.0	21.3	21.0	20.9	20.3	20.2	20.1	19.6	18.8	18.4	17.6
75°	16.2	16.3	16.1	15.9	15.5	15.4	15.0	14.6	14.1	13.4	12.8
77.5°	11.7	11.5	11.5	11.1	10.7	10.7	10.6	10.1	9.5	8.8	8.3
80°	7.4	7.3	7.0	6.9	6.6	6.5	6.4	6.0	5.4	5.1	4.7
82.5°	3.7	3.7	3.6	3.5	3.3	3.1	3.2	2.9	2.7	2.2	2.0
85°	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.0	0.7	0.6	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	250.7	250.7	250.7	250.7	250.7	250.7	250.7	250.7	250.7	250.7	250.7
2.5°	249.9	250.0	250.0	250.1	250.1	250.2	250.3	250.4	250.5	250.5	250.6
5°	249.7	249.9	249.9	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.1
7.5°	249.8	249.8	249.8	249.7	249.7	249.6	249.6	249.6	249.4	249.4	249.4
10°	249.3	249.2	249.1	248.9	248.8	248.7	248.5	248.4	248.2	248.1	247.9
12.5°	248.4	248.0	247.6	247.2	247.0	246.9	246.6	246.3	246.0	245.7	245.5
15°	246.5	245.9	245.2	244.5	244.3	244.2	243.4	242.9	242.6	242.2	241.8
17.5°	242.7	241.6	240.9	239.7	239.3	239.1	238.0	237.5	236.8	236.6	236.2
20°	236.0	235.0	233.5	232.6	231.9	231.4	230.5	229.8	229.1	229.1	228.6
22.5°	227.7	226.3	224.5	223.2	223.1	222.0	221.2	220.3	220.1	219.5	219.5
25°	217.1	216.0	214.0	212.9	212.3	212.1	210.8	209.6	209.1	208.7	209.0
27.5°	205.5	203.8	202.2	200.8	200.4	199.8	198.7	198.1	197.2	197.1	197.0
30°	192.1	190.4	188.9	188.2	187.3	186.8	185.9	185.4	185.0	185.0	184.8
32.5°	178.0	176.5	175.8	174.3	173.9	173.3	172.6	172.1	172.3	172.1	172.2
35°	162.8	162.5	161.0	160.2	160.2	160.2	159.2	158.8	158.6	158.7	159.2
37.5°	148.5	147.3	146.4	145.8	146.3	145.7	145.6	145.6	146.2	145.8	146.6
40°	133.1	133.0	132.7	132.9	133.0	132.2	132.4	132.5	133.0	133.7	133.8
42.5°	119.8	119.7	119.7	119.7	119.5	119.1	119.5	120.1	120.0	120.6	121.1
45°	106.8	106.7	107.0	106.7	107.4	107.5	107.2	107.5	108.0	108.3	109.1
47.5°	95.1	95.1	95.1	95.3	94.8	95.2	95.5	95.9	96.1	96.3	96.7
50°	84.2	84.2	84.0	84.0	84.0	84.3	83.9	84.4	84.4	85.2	85.7
52.5°	74.1	73.7	73.9	73.7	73.3	73.1	73.3	73.4	74.0	74.2	74.7
55°	64.5	64.5	63.8	63.6	63.8	63.8	63.7	63.7	63.9	64.2	64.7
57.5°	56.0	55.5	54.8	54.8	54.5	54.6	54.6	54.5	54.3	54.4	54.5
60°	48.0	47.6	46.8	46.8	46.7	46.6	46.1	46.0	45.6	45.7	45.3
62.5°	40.7	40.5	39.3	39.0	39.0	38.7	38.3	38.2	37.5	37.5	37.1
65°	34.1	33.5	32.8	32.2	32.2	31.8	31.6	30.7	30.2	30.0	29.3
67.5°	28.1	27.2	26.6	25.9	25.6	25.5	24.9	24.3	23.5	23.1	22.2
70°	22.2	21.6	20.9	20.3	20.0	19.6	18.9	18.1	17.5	16.7	16.1
72.5°	16.8	16.2	15.6	14.9	14.4	14.1	13.5	12.8	11.8	11.2	10.4
75°	12.0	11.4	10.6	10.0	9.7	9.5	8.6	8.1	7.4	6.8	6.1
77.5°	7.8	7.0	6.5	5.7	5.6	5.4	4.7	4.1	3.7	3.3	2.9
80°	4.1	3.7	3.3	2.9	2.7	2.3	2.0	1.7	1.4	1.2	1.0
82.5°	1.8	1.5	1.2	1.1	1.0	0.9	0.6	0.5	0.4	0.4	0.4
85°	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.0
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	250.7	250.7	250.7	250.7	250.7	250.7	250.7	250.7	250.7	250.7	250.7
2.5°	250.7	250.8	250.9	250.9	251.0	251.1	251.1	251.2	251.3	251.4	251.4
5°	250.2	250.2	250.2	250.3	250.3	250.3	250.3	250.5	250.5	250.6	250.7
7.5°	249.3	249.3	249.3	249.3	249.2	249.3	249.2	249.2	249.4	249.5	249.6
10°	247.8	247.7	247.7	247.6	247.6	247.6	247.7	247.8	247.9	248.0	248.3
12.5°	245.4	245.3	245.3	245.2	245.2	245.3	245.4	245.6	246.0	246.2	246.6
15°	241.7	241.6	241.7	241.8	241.9	242.2	242.6	242.8	243.4	243.8	244.3
17.5°	236.2	236.3	236.4	236.6	236.8	237.2	238.0	238.7	239.4	240.1	240.9
20°	228.6	229.1	229.2	229.8	230.0	230.9	231.7	232.8	233.8	234.8	235.9
22.5°	219.6	219.9	220.3	221.1	221.5	222.7	223.6	225.0	226.1	227.4	228.8
25°	209.4	209.5	210.6	210.6	211.7	212.7	213.9	215.3	217.0	218.6	219.6
27.5°	197.7	198.1	199.0	199.4	200.3	201.7	202.8	204.5	206.2	207.6	208.8
30°	185.5	185.8	187.3	187.4	188.1	189.4	190.8	192.4	193.8	195.4	196.4
32.5°	172.6	173.6	174.4	175.1	175.3	177.3	178.0	179.2	180.7	182.3	183.3
35°	160.1	160.5	161.8	162.1	162.7	163.8	165.3	166.2	167.0	168.0	169.3
37.5°	146.8	148.2	148.5	149.6	149.8	150.8	151.6	152.7	153.6	154.6	154.8
40°	134.5	134.9	135.9	136.3	136.4	137.9	138.8	139.0	139.6	140.4	141.5
42.5°	121.9	122.3	123.5	123.2	124.0	124.8	125.2	126.4	126.8	127.1	127.1
45°	109.6	109.8	110.5	110.9	111.4	111.7	112.6	113.2	113.3	114.2	114.5
47.5°	97.8	98.0	98.5	99.3	99.1	99.5	100.4	100.8	100.9	101.4	101.7
50°	86.2	86.7	87.5	87.3	87.8	88.1	89.0	89.2	89.2	89.3	89.4
52.5°	75.4	75.8	76.0	76.2	76.4	77.0	77.3	77.1	77.5	77.8	77.6
55°	64.7	64.9	65.5	65.6	65.6	65.7	65.5	66.3	66.0	65.9	66.0
57.5°	54.8	54.5	54.4	54.8	55.1	55.0	54.7	55.1	55.1	54.8	54.6
60°	45.4	45.1	45.0	45.1	44.7	44.4	44.6	44.4	44.0	43.8	43.9
62.5°	36.7	36.5	35.7	35.7	35.5	35.4	34.7	34.8	34.3	33.8	34.0
65°	28.7	28.0	27.6	27.5	26.8	26.3	26.0	25.4	24.9	24.8	24.9
67.5°	21.6	20.7	20.1	19.8	19.4	18.9	18.3	17.7	17.9	17.8	18.2
70°	15.0	14.4	13.7	13.3	13.5	12.9	12.5	12.5	12.6	12.8	12.9
72.5°	10.0	9.2	8.9	8.6	8.5	8.1	8.3	8.3	8.2	8.3	8.1
75°	5.6	5.3	5.0	4.9	4.7	4.7	4.7	4.7	4.6	4.5	4.5
77.5°	2.6	2.3	2.2	2.1	2.1	2.1	2.1	2.0	2.0	2.0	1.9
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
87.5°	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.0
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	250.7	250.7	250.7	250.7	250.7	250.7	250.7	250.7
2.5°	251.5	251.6	251.6	251.6	251.6	251.6	251.6	251.6
5°	250.8	250.9	250.9	250.9	251.0	251.0	251.0	251.0
7.5°	249.7	249.8	249.8	249.9	249.9	250.0	250.0	250.0
10°	248.4	248.5	248.6	248.7	248.8	248.9	248.9	249.0
12.5°	246.9	247.1	247.2	247.4	247.6	247.7	247.8	247.9
15°	244.9	245.2	245.4	245.5	245.9	246.1	246.2	246.3
17.5°	241.6	242.3	242.6	242.8	243.2	243.5	243.8	243.9
20°	236.8	237.7	238.1	238.5	239.2	239.6	239.8	240.0
22.5°	230.2	231.2	231.8	232.4	232.8	233.3	234.1	233.7
25°	220.9	222.5	223.1	223.4	224.5	225.0	225.3	225.0
27.5°	210.4	211.3	211.8	212.5	213.2	213.8	214.0	214.6
30°	197.6	199.2	199.1	199.8	200.7	201.3	201.4	202.0
32.5°	184.4	185.2	185.7	185.7	186.0	187.1	186.7	187.5
35°	170.4	170.5	171.4	171.3	172.1	172.1	172.1	172.6
37.5°	155.4	156.6	156.1	157.2	156.9	157.1	157.1	157.3
40°	141.8	142.1	142.1	142.5	142.9	142.5	142.7	143.2
42.5°	127.7	128.1	128.1	128.0	128.2	129.0	128.4	128.9
45°	114.5	114.8	115.1	114.9	115.3	115.0	115.3	115.1
47.5°	102.0	101.9	101.8	102.6	101.9	102.0	102.5	101.7
50°	89.4	89.9	89.5	89.8	90.0	90.0	89.7	89.7
52.5°	78.0	77.9	77.7	77.9	77.8	77.8	78.0	77.8
55°	66.3	66.8	66.5	66.4	66.5	66.5	67.1	66.3
57.5°	54.8	54.7	55.0	55.6	55.0	55.5	55.7	55.8
60°	44.0	44.0	44.5	44.2	44.9	45.3	45.7	45.5
62.5°	33.5	34.0	34.2	34.2	34.9	35.2	35.2	35.1
65°	24.9	25.5	25.5	25.9	26.0	26.0	26.3	26.7
67.5°	18.4	18.4	18.5	18.6	18.5	18.5	18.7	18.8
70°	12.8	12.6	12.9	12.8	12.8	12.8	12.8	12.8
72.5°	8.1	8.1	8.2	8.1	7.9	8.0	8.0	8.2
75°	4.4	4.5	4.4	4.4	4.5	4.3	4.4	4.5
77.5°	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.7	0.7
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
87.5°	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)