

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: P858856

Luminaire Tested: **LX4C05D010 EX4C059827 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P858856
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 EX4C059827 4LBLWW*
Description:
Light Source: -
Ballast/Driver: -

Summary

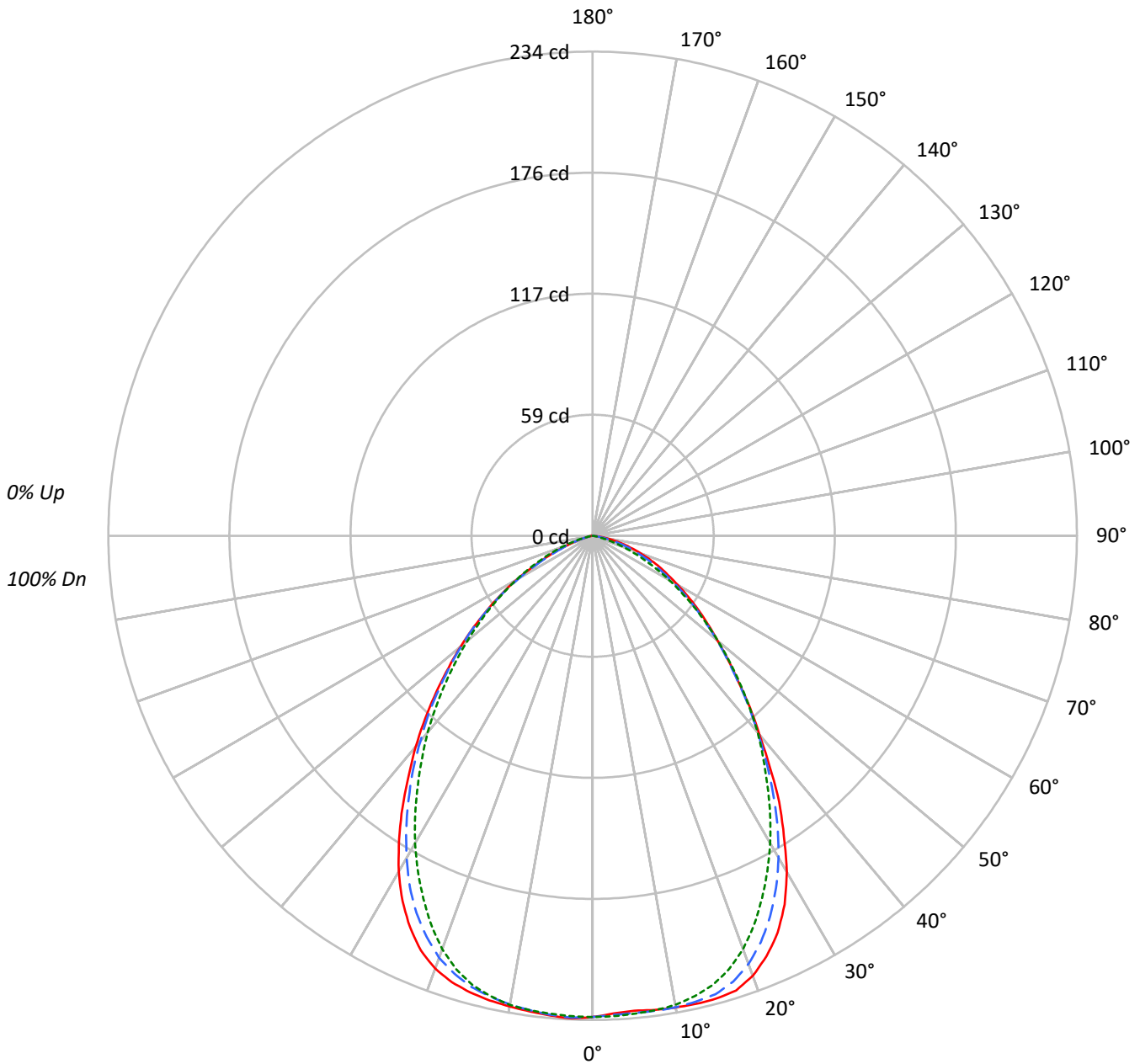
Lumens per Lamp: N/A
Luminaire Lumens: 445.9 lumens
Efficiency: N/A
Efficacy: 61.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	28576	28576	28576
5°	28414	28599	28710
10°	28879	28717	28817
15°	29444	28579	29062
20°	29586	27782	29102
25°	28683	26230	28304
30°	26627	24343	26584
35°	23576	22077	24026
40°	20095	19886	21314
45°	17252	17461	18556
50°	15061	15099	15902
55°	13323	12766	13173
60°	11671	10418	10369
65°	10349	8052	7180
70°	8800	5532	4274
75°	7120	2990	1946
80°	4882	778	495
85°	1551	282	282



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.1	5.0
10°-20°	64.0	14.4
20°-30°	92.5	20.7
30°-40°	95.6	21.4
40°-50°	79.0	17.7
50°-60°	54.5	12.2
60°-70°	28.5	6.4
70°-80°	9.0	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°	178.5	40.0
0°-40°	274.1	61.5
0°-60°	407.6	91.4
0°-90°	445.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	445.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	233	233	233	233	233	
5°	230	232	232	232	233	22
15°	232	229	225	226	228	65
25°	212	203	194	201	209	97
35°	157	152	147	155	160	98
45°	99	99	100	105	107	77
55°	62	60	60	61	62	56
65°	36	32	28	23	25	35
75°	15	12	6	4	4	16
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°	232.6	232.6	232.6	232.6	232.6	232.6	232.6	232.6	232.6	232.6	232.6
2.5°	231.1	231.1	231.1	231.3	231.3	231.3	231.4	231.4	231.5	231.6	231.7
5°	230.4	230.4	230.5	230.6	230.8	230.9	231.1	231.1	231.3	231.4	231.5
7.5°	231.1	231.1	231.1	231.2	231.2	231.3	231.3	231.4	231.5	231.6	231.6
10°	231.5	231.5	231.5	231.5	231.6	231.6	231.6	231.5	231.5	231.5	231.4
12.5°	231.7	231.7	231.6	231.5	231.6	231.5	231.5	231.2	231.1	230.9	230.6
15°	231.5	231.5	231.4	231.3	231.2	231.1	231.0	230.5	230.2	229.7	229.4
17.5°	230.4	230.2	230.1	229.9	229.5	229.3	229.1	228.3	227.7	226.8	225.9
20°	226.3	226.2	226.0	225.5	225.1	224.7	224.2	223.0	222.4	221.2	220.2
22.5°	219.8	219.6	219.7	218.9	218.0	217.6	217.2	216.2	215.2	213.5	212.5
25°	211.6	211.1	211.1	209.8	209.4	209.1	208.7	207.5	205.9	204.5	203.0
27.5°	200.9	200.3	199.9	199.8	198.7	197.9	197.3	196.5	195.1	193.8	191.9
30°	187.7	187.6	187.2	186.4	185.6	185.2	184.5	183.1	181.8	180.8	179.7
32.5°	172.0	171.9	171.9	171.9	171.4	171.3	170.3	169.5	168.5	167.0	166.3
35°	157.2	157.1	157.2	155.9	155.5	155.3	155.2	154.6	153.4	152.7	152.0
37.5°	140.4	140.7	140.5	140.2	140.6	139.8	140.4	139.3	138.8	138.6	137.8
40°	125.3	126.0	125.3	125.4	125.8	125.0	125.0	124.8	124.6	124.4	124.2
42.5°	112.4	111.6	112.0	111.6	112.0	111.8	111.4	111.6	111.7	111.4	111.3
45°	99.3	99.5	99.7	99.4	99.4	99.3	99.9	99.4	99.4	99.5	99.0
47.5°	88.8	88.5	88.7	88.5	88.6	88.5	88.6	88.7	88.5	88.5	88.0
50°	78.8	78.7	79.3	78.7	78.7	78.7	78.7	78.6	78.3	78.3	78.5
52.5°	70.2	69.8	69.7	70.2	69.6	69.6	69.7	69.6	69.2	69.0	68.6
55°	62.2	62.1	62.2	61.8	61.6	61.6	61.3	61.1	61.0	60.5	60.3
57.5°	54.7	54.4	54.5	54.4	54.0	54.0	53.6	53.6	53.2	52.9	52.5
60°	47.5	47.5	47.8	47.4	47.2	47.0	46.8	46.6	46.0	45.4	44.9
62.5°	41.1	41.2	41.1	40.8	40.7	40.5	40.3	39.9	39.3	39.0	38.3
65°	35.6	35.5	35.2	35.0	34.6	34.6	34.2	34.0	33.4	32.8	32.2
67.5°	29.8	29.6	29.6	29.6	29.1	29.0	28.8	28.3	27.7	27.1	26.6
70°	24.5	24.7	24.4	24.2	23.9	23.8	23.5	23.1	22.5	21.8	21.3
72.5°	19.5	19.7	19.4	19.4	18.9	18.7	18.6	18.2	17.5	17.0	16.3
75°	15.0	15.1	14.9	14.8	14.4	14.4	13.9	13.6	13.1	12.4	11.8
77.5°	10.8	10.6	10.6	10.3	10.0	10.0	9.9	9.4	8.7	8.2	7.7
80°	6.9	6.8	6.5	6.3	6.2	6.1	6.0	5.5	5.1	4.7	4.4
82.5°	3.5	3.4	3.3	3.2	3.0	2.9	2.9	2.6	2.4	2.1	1.9
85°	1.1	1.2	1.2	1.1	1.0	1.0	1.0	0.9	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°	232.6	232.6	232.6	232.6	232.6	232.6	232.6	232.6	232.6	232.6	232.6
2.5°	231.8	231.9	231.9	232.0	232.0	232.1	232.2	232.3	232.4	232.4	232.5
5°	231.6	231.8	231.8	231.9	231.9	231.9	231.9	231.9	231.9	231.9	232.0
7.5°	231.7	231.7	231.7	231.6	231.6	231.5	231.5	231.5	231.3	231.3	231.3
10°	231.2	231.1	231.1	230.9	230.8	230.7	230.5	230.4	230.2	230.2	230.0
12.5°	230.4	230.1	229.7	229.4	229.2	229.1	228.7	228.5	228.2	227.9	227.8
15°	228.6	228.1	227.5	226.8	226.6	226.4	225.9	225.3	225.0	224.7	224.3
17.5°	225.2	224.1	223.4	222.3	222.0	221.8	220.8	220.3	219.6	219.5	219.1
20°	218.9	217.9	216.7	215.7	215.2	214.6	213.8	213.2	212.5	212.5	212.1
22.5°	211.2	209.9	208.3	207.1	207.0	205.9	205.2	204.5	204.2	203.7	203.7
25°	201.4	200.4	198.5	197.4	196.9	196.6	195.6	194.5	194.0	193.5	193.9
27.5°	190.6	189.0	187.6	186.3	185.8	185.3	184.2	183.9	182.9	182.8	182.7
30°	178.2	176.6	175.2	174.6	173.7	173.3	172.5	171.9	171.6	171.6	171.4
32.5°	165.2	163.7	163.0	161.8	161.3	160.7	160.2	159.6	159.8	159.6	159.7
35°	151.1	150.7	149.5	148.7	148.7	148.6	147.7	147.3	147.1	147.2	147.7
37.5°	137.7	136.7	135.8	135.3	135.7	135.2	135.1	135.1	135.6	135.3	136.0
40°	123.5	123.4	123.1	123.2	123.3	122.7	122.9	123.0	123.3	124.0	124.1
42.5°	111.1	111.0	111.0	111.0	110.8	110.5	110.8	111.5	111.4	111.9	112.3
45°	99.2	99.0	99.3	99.1	99.5	99.7	99.4	99.6	100.1	100.5	101.2
47.5°	88.2	88.2	88.3	88.5	87.9	88.4	88.5	88.9	89.2	89.4	89.7
50°	78.1	78.1	77.9	77.9	77.9	78.2	77.8	78.2	78.3	79.0	79.5
52.5°	68.8	68.3	68.6	68.4	68.0	67.9	68.0	68.1	68.7	68.8	69.4
55°	59.8	59.8	59.1	58.9	59.2	59.1	59.0	59.0	59.3	59.6	60.0
57.5°	52.0	51.5	50.9	50.8	50.6	50.7	50.7	50.6	50.4	50.5	50.6
60°	44.5	44.2	43.4	43.4	43.3	43.2	42.8	42.7	42.3	42.4	42.0
62.5°	37.7	37.5	36.5	36.1	36.1	35.9	35.5	35.4	34.8	34.8	34.4
65°	31.7	31.1	30.5	29.9	29.9	29.5	29.2	28.4	28.0	27.7	27.3
67.5°	26.0	25.2	24.6	24.1	23.7	23.6	23.1	22.6	21.8	21.4	20.6
70°	20.6	20.0	19.4	18.9	18.5	18.2	17.6	16.8	16.2	15.4	14.9
72.5°	15.5	15.0	14.5	13.8	13.4	13.1	12.5	11.8	10.9	10.4	9.7
75°	11.1	10.6	9.9	9.3	9.0	8.7	8.0	7.5	6.9	6.3	5.6
77.5°	7.2	6.5	6.1	5.4	5.3	5.1	4.4	3.8	3.4	3.0	2.6
80°	3.8	3.5	3.0	2.6	2.4	2.1	1.9	1.6	1.3	1.1	0.9
82.5°	1.7	1.4	1.2	1.0	0.9	0.8	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°	232.6	232.6	232.6	232.6	232.6	232.6	232.6	232.6	232.6	232.6	232.6
2.5°	232.6	232.7	232.7	232.7	232.8	232.9	232.9	233.0	233.1	233.2	233.2
5°	232.1	232.1	232.1	232.2	232.2	232.2	232.2	232.4	232.4	232.5	232.6
7.5°	231.2	231.2	231.2	231.2	231.1	231.2	231.1	231.1	231.3	231.4	231.5
10°	229.9	229.8	229.8	229.7	229.7	229.7	229.8	229.9	230.0	230.1	230.3
12.5°	227.7	227.6	227.6	227.5	227.5	227.6	227.7	227.8	228.2	228.4	228.7
15°	224.2	224.1	224.2	224.3	224.5	224.7	225.0	225.3	225.8	226.2	226.6
17.5°	219.1	219.2	219.3	219.5	219.7	220.1	220.8	221.5	222.0	222.8	223.5
20°	212.1	212.5	212.6	213.2	213.4	214.1	214.9	216.0	217.0	217.8	218.7
22.5°	203.8	204.0	204.4	205.0	205.5	206.5	207.5	208.8	209.7	210.9	212.3
25°	194.2	194.3	195.4	195.4	196.5	197.3	198.4	199.8	201.3	202.8	203.8
27.5°	183.4	183.9	184.6	184.9	185.7	187.2	188.2	189.7	191.3	192.5	193.6
30°	172.0	172.4	173.7	173.9	174.5	175.7	177.0	178.5	179.7	181.2	182.2
32.5°	160.1	161.0	161.9	162.5	162.7	164.4	165.2	166.2	167.6	169.1	170.1
35°	148.5	148.9	150.1	150.3	150.9	152.0	153.4	154.3	154.9	155.9	157.0
37.5°	136.2	137.4	137.7	138.8	138.9	139.9	140.6	141.6	142.5	143.4	143.6
40°	124.8	125.1	126.1	126.4	126.5	127.9	128.8	128.9	129.4	130.2	131.3
42.5°	113.1	113.5	114.6	114.3	115.1	115.7	116.2	117.2	117.6	117.9	117.9
45°	101.7	101.8	102.6	102.9	103.4	103.6	104.4	105.0	105.1	105.9	106.2
47.5°	90.8	90.9	91.4	92.0	91.8	92.3	93.2	93.5	93.5	94.1	94.3
50°	80.0	80.4	81.1	81.0	81.5	81.8	82.5	82.7	82.7	82.8	82.8
52.5°	69.9	70.3	70.4	70.6	70.9	71.3	71.7	71.5	71.9	72.2	72.0
55°	60.0	60.3	60.7	60.9	60.9	61.0	60.8	61.5	61.3	61.2	61.3
57.5°	50.9	50.6	50.5	50.9	51.1	51.0	50.7	51.1	51.1	50.9	50.7
60°	42.1	41.8	41.7	41.8	41.5	41.2	41.4	41.2	40.8	40.6	40.7
62.5°	34.1	33.8	33.1	33.1	32.9	32.8	32.1	32.2	31.8	31.4	31.6
65°	26.7	25.9	25.6	25.5	24.9	24.3	24.2	23.5	23.1	23.0	23.1
67.5°	20.0	19.2	18.6	18.4	18.0	17.6	16.9	16.4	16.6	16.5	16.9
70°	13.9	13.4	12.8	12.3	12.5	11.9	11.6	11.6	11.7	11.8	11.9
72.5°	9.3	8.6	8.3	8.0	7.8	7.5	7.7	7.7	7.6	7.7	7.5
75°	5.3	4.9	4.6	4.5	4.4	4.4	4.4	4.4	4.3	4.2	4.2
77.5°	2.3	2.1	2.1	2.1	2.1	2.1	2.0	1.9	1.9	1.9	1.8
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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°	232.6	232.6	232.6	232.6	232.6	232.6	232.6	232.6
2.5°	233.3	233.4	233.4	233.4	233.5	233.5	233.5	233.5
5°	232.7	232.7	232.7	232.7	232.8	232.8	232.8	232.8
7.5°	231.6	231.7	231.7	231.8	231.8	231.9	231.9	231.9
10°	230.4	230.5	230.6	230.7	230.8	230.9	230.9	231.0
12.5°	229.1	229.3	229.4	229.5	229.7	229.8	229.9	230.0
15°	227.1	227.5	227.7	227.8	228.1	228.3	228.4	228.5
17.5°	224.1	224.8	225.1	225.3	225.6	226.0	226.2	226.2
20°	219.7	220.5	220.9	221.3	221.9	222.2	222.4	222.6
22.5°	213.6	214.5	215.0	215.5	216.0	216.4	217.1	216.9
25°	204.9	206.3	207.0	207.2	208.2	208.8	209.1	208.8
27.5°	195.1	196.0	196.5	197.1	197.8	198.3	198.5	199.0
30°	183.3	184.8	184.7	185.3	186.2	186.7	186.9	187.4
32.5°	171.1	171.7	172.3	172.2	172.6	173.5	173.2	174.0
35°	158.1	158.2	159.0	158.9	159.6	159.6	159.6	160.2
37.5°	144.2	145.3	144.8	145.9	145.5	145.8	145.8	145.9
40°	131.5	131.9	131.9	132.2	132.5	132.2	132.4	132.9
42.5°	118.4	118.8	118.9	118.7	119.0	119.8	119.1	119.7
45°	106.2	106.5	106.8	106.6	107.0	106.7	107.0	106.8
47.5°	94.7	94.6	94.5	95.1	94.6	94.7	95.1	94.4
50°	82.8	83.4	83.0	83.3	83.5	83.5	83.2	83.2
52.5°	72.4	72.3	72.1	72.3	72.1	72.2	72.4	72.2
55°	61.5	61.9	61.7	61.6	61.7	61.7	62.2	61.5
57.5°	50.9	50.7	51.0	51.6	51.0	51.5	51.7	51.8
60°	40.8	40.8	41.3	41.0	41.6	42.0	42.4	42.2
62.5°	31.1	31.6	31.7	31.7	32.3	32.6	32.6	32.5
65°	23.1	23.6	23.6	24.0	24.2	24.2	24.3	24.7
67.5°	17.0	17.0	17.1	17.3	17.2	17.2	17.4	17.5
70°	11.9	11.7	11.9	11.9	11.9	11.8	11.9	11.9
72.5°	7.5	7.5	7.6	7.5	7.3	7.4	7.4	7.6
75°	4.0	4.2	4.0	4.0	4.1	3.9	4.0	4.1
77.5°	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6
80°	0.8	0.8	0.8	0.8	0.8	0.8	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)