

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: P858778

Luminaire Tested: **LX4C05D010 EX4C059027 4LBLWWH**

Issue Date: 2/14/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P858778  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/14/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX4C05D010 EX4C059027 4LBLWWH  
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 4LRLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

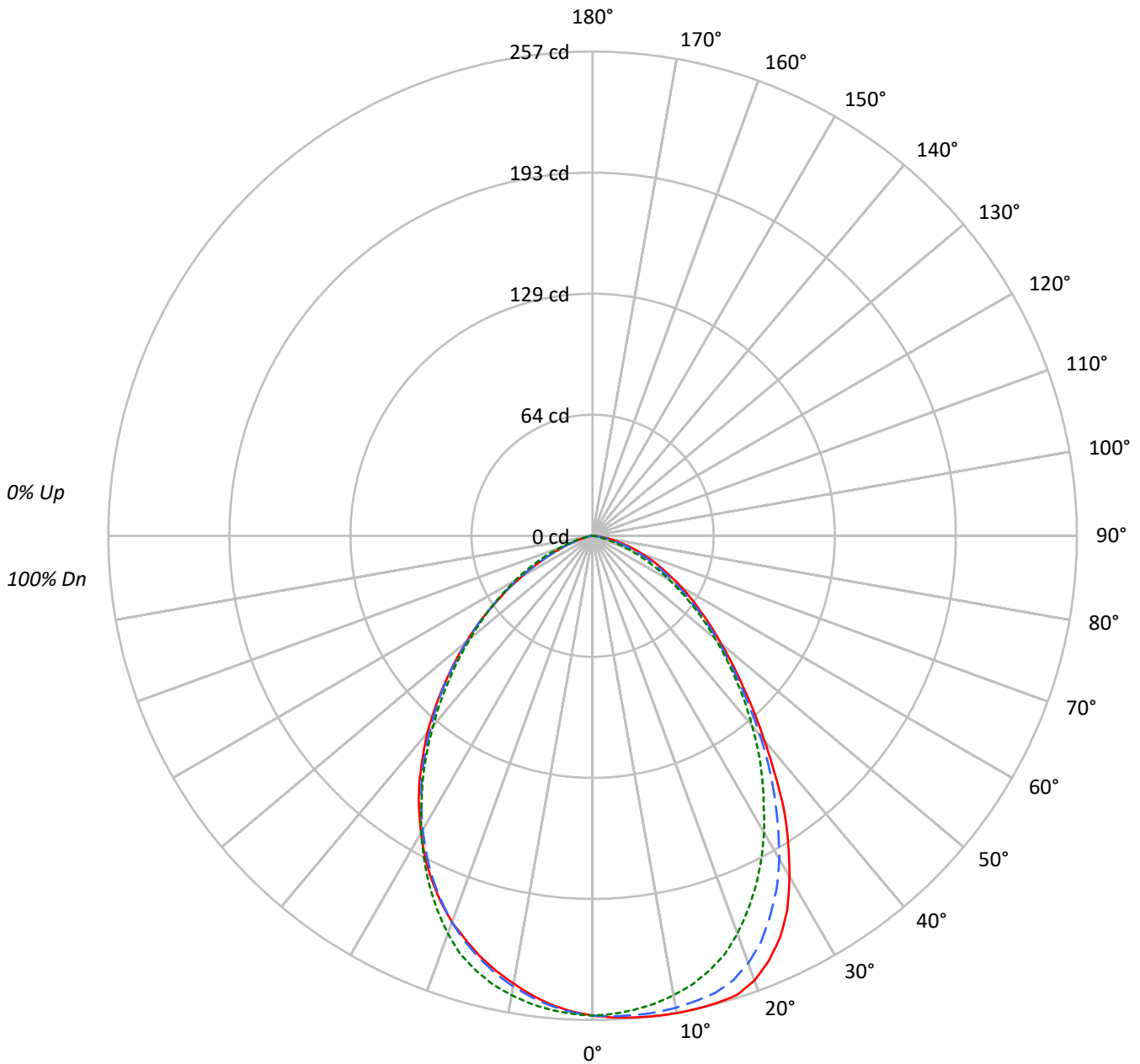
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 480.0 lumens  
Efficiency: N/A  
Efficacy: 66.7 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 7.2  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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	108	105	102	99	101	98	96	97	95	93	94	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68																			
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60																			
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53																			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47																			
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43																			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39																			
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	47	41	37	35																			
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	31291	31291	31291
5°	31645	31151	30818
10°	32098	30888	30114
15°	32636	30398	29393
20°	32841	29364	28527
25°	31896	27775	27355
30°	29649	25818	25833
35°	26531	23531	24041
40°	22725	21105	21875
45°	19563	18608	19303
50°	16991	16188	16685
55°	14950	13922	13815
60°	13317	11622	10713
65°	11686	9302	7733
70°	10022	6573	5244
75°	8117	3797	3085
80°	5801	1698	1556
85°	2255	705	705



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.0	5.0
10°-20°	67.9	14.2
20°-30°	97.0	20.2
30°-40°	101.5	21.1
40°-50°	85.0	17.7
50°-60°	59.5	12.4
60°-70°	32.4	6.8
70°-80°	11.3	2.3
80°-90°	1.3	0.3
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°	189.0	39.4
0°-40°	290.5	60.5
0°-60°	435.0	90.6
0°-90°	480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	480.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	255	255	255	255	255	
5°	257	255	253	250	250	25
15°	257	251	239	232	231	72
25°	235	223	205	201	202	107
35°	177	168	157	158	160	110
45°	113	110	107	111	111	88
55°	70	68	65	65	64	63
65°	40	37	32	27	27	40
75°	17	14	8	6	6	18
85°	2	1	0	0	0	3
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°	254.7	254.7	254.7	254.7	254.7	254.7	254.7	254.7	254.7	254.7	254.7
2.5°	255.9	255.6	255.7	255.7	255.7	255.6	255.7	255.6	255.6	255.5	255.3
5°	256.6	256.4	256.4	256.4	256.3	256.2	256.2	256.1	255.9	255.8	255.4
7.5°	257.1	256.9	256.9	256.8	256.7	256.6	256.5	256.2	255.9	255.7	255.2
10°	257.3	257.1	257.1	256.9	256.7	256.6	256.4	256.0	255.6	255.1	254.4
12.5°	257.1	256.9	256.8	256.6	256.2	256.0	255.8	255.3	254.6	253.9	253.0
15°	256.6	256.4	256.2	255.9	255.4	255.1	254.9	254.1	253.2	252.3	251.2
17.5°	255.4	255.1	254.7	254.3	253.6	253.3	252.8	251.9	250.6	249.2	247.5
20°	251.2	251.0	250.6	249.9	248.8	248.4	247.7	246.5	244.8	243.1	241.4
22.5°	244.2	243.9	243.3	242.7	241.8	241.1	240.5	238.7	236.9	235.1	233.4
25°	235.3	235.0	234.2	233.4	232.5	231.3	230.7	229.3	227.5	225.2	222.8
27.5°	223.8	222.9	222.6	221.7	220.2	219.8	218.9	217.2	215.4	213.5	211.4
30°	209.0	209.0	208.4	208.0	206.6	206.2	205.2	203.4	202.4	199.6	198.1
32.5°	193.2	193.0	192.5	192.2	191.4	190.7	189.8	188.8	186.6	185.2	183.1
35°	176.9	175.7	175.9	175.4	174.9	174.1	174.0	172.9	170.9	170.2	168.2
37.5°	158.4	157.9	158.6	157.7	157.2	157.3	156.5	155.9	155.1	153.7	153.3
40°	141.7	142.0	141.9	141.2	141.6	141.1	140.3	139.6	139.2	138.3	138.0
42.5°	126.7	126.1	125.9	125.9	126.0	126.0	125.6	125.1	125.1	124.2	123.3
45°	112.6	112.6	112.4	112.9	112.1	112.1	111.8	111.7	111.3	111.1	110.0
47.5°	100.4	100.3	100.2	100.1	100.0	100.0	99.4	98.9	98.8	98.3	97.7
50°	88.9	89.5	89.3	88.9	88.7	88.8	88.4	88.1	88.0	87.0	87.1
52.5°	79.3	79.3	79.4	79.2	78.7	78.8	78.4	78.0	77.6	77.1	76.7
55°	69.8	70.3	70.1	69.8	69.7	69.6	69.3	68.8	68.7	67.6	67.5
57.5°	61.9	61.8	61.6	61.1	61.0	60.7	60.7	60.3	59.8	59.2	58.7
60°	54.2	54.2	53.9	53.8	53.4	53.3	53.2	52.8	52.1	51.6	50.8
62.5°	46.7	46.9	46.7	46.4	46.1	45.7	45.6	45.3	44.7	44.2	43.5
65°	40.2	40.1	40.0	39.6	39.5	39.1	39.0	38.4	37.8	37.4	36.6
67.5°	33.9	33.6	33.6	33.4	33.2	32.9	32.7	32.1	31.4	31.1	30.3
70°	27.9	27.7	27.7	27.7	27.2	26.9	26.8	26.5	25.6	25.2	24.4
72.5°	22.4	22.3	22.2	21.9	21.6	21.6	21.3	20.7	20.2	19.7	19.1
75°	17.1	17.3	17.1	16.8	16.7	16.5	16.2	15.7	15.2	14.6	13.9
77.5°	12.5	12.3	12.1	12.1	12.0	11.6	11.5	11.1	10.5	10.1	9.4
80°	8.2	8.1	7.9	7.7	7.6	7.5	7.4	7.1	6.5	6.2	5.6
82.5°	4.5	4.4	4.4	4.3	4.0	4.0	3.9	3.5	3.2	3.0	2.7
85°	1.6	1.6	1.6	1.5	1.5	1.5	1.4	1.3	1.2	1.1	0.9
87.5°	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	254.7	254.7	254.7	254.7	254.7	254.7	254.7	254.7	254.7	254.7	254.7
2.5°	255.1	254.9	254.8	254.7	254.6	254.5	254.4	254.2	254.1	254.0	253.8
5°	255.1	254.7	254.5	254.2	254.0	253.8	253.5	253.2	252.9	252.6	252.3
7.5°	254.7	254.1	253.7	253.1	252.9	252.6	252.1	251.7	251.2	250.6	249.9
10°	253.7	253.0	252.3	251.5	251.2	250.7	249.9	249.2	248.4	247.6	247.0
12.5°	252.2	251.1	250.1	249.0	248.4	247.9	246.9	245.9	244.9	244.0	242.8
15°	249.8	248.5	247.3	245.8	245.1	244.5	242.9	241.8	240.2	239.0	237.9
17.5°	246.0	244.0	242.5	240.6	239.6	238.9	237.6	235.7	234.2	233.0	231.6
20°	239.4	237.6	235.4	233.3	232.3	231.4	229.4	227.5	226.0	224.6	223.2
22.5°	230.8	228.4	226.9	224.3	223.5	222.4	220.0	218.3	216.6	215.2	213.8
25°	220.3	218.3	216.1	213.8	212.7	211.4	209.4	207.6	206.5	204.9	203.3
27.5°	208.3	206.6	204.0	201.9	200.8	199.8	198.0	196.3	194.7	193.7	192.1
30°	195.5	193.6	191.2	189.1	188.5	187.3	185.6	184.4	182.7	182.0	181.3
32.5°	181.5	179.3	177.5	176.1	175.0	174.0	173.1	171.0	170.7	169.0	168.8
35°	166.2	165.3	163.6	162.4	161.4	160.8	159.3	158.3	157.2	156.9	156.2
37.5°	151.8	150.7	149.1	148.0	147.3	147.2	146.2	145.6	144.8	144.4	143.6
40°	136.8	136.3	134.9	134.7	133.6	133.5	132.9	132.2	131.6	131.6	131.7
42.5°	122.8	122.3	121.7	121.0	120.4	120.4	120.1	119.9	119.7	119.4	119.9
45°	109.8	109.0	108.6	108.0	108.2	107.7	107.5	107.5	107.2	107.1	107.8
47.5°	97.7	96.8	96.4	96.2	96.2	96.3	95.4	95.7	95.6	95.8	96.1
50°	86.6	85.8	85.2	85.2	85.3	84.9	84.5	84.8	84.5	84.7	85.4
52.5°	76.3	75.5	75.2	75.2	74.6	74.5	74.7	74.4	74.5	74.5	74.9
55°	66.8	66.3	65.8	65.3	65.4	65.2	64.9	64.8	64.9	65.0	65.5
57.5°	58.3	57.6	56.9	56.7	56.5	56.5	56.0	55.9	56.1	55.6	55.6
60°	50.2	49.8	48.9	48.6	48.6	48.1	47.7	47.9	47.4	47.3	47.4
62.5°	42.6	42.3	41.7	41.1	40.9	40.8	40.3	40.1	39.9	39.5	38.9
65°	36.0	35.4	34.7	34.3	34.0	33.5	33.2	32.8	32.2	32.0	31.4
67.5°	29.5	28.8	28.1	27.8	27.5	27.2	26.7	26.3	25.6	24.8	24.1
70°	23.7	22.8	22.4	21.6	21.5	21.1	20.4	19.9	19.2	18.3	17.6
72.5°	18.1	17.5	16.9	16.3	15.8	15.5	14.9	14.1	13.3	12.8	12.1
75°	13.0	12.7	12.0	11.2	11.0	10.6	9.9	9.4	8.8	8.0	7.4
77.5°	8.8	8.2	7.7	7.1	6.9	6.5	6.1	5.6	5.2	4.7	4.3
80°	5.2	4.7	4.4	3.9	3.7	3.5	3.2	2.8	2.5	2.4	2.3
82.5°	2.5	2.2	2.1	1.8	1.7	1.6	1.4	1.3	1.1	1.1	1.1
85°	0.9	0.7	0.7	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	254.7	254.7	254.7	254.7	254.7	254.7	254.7	254.7	254.7	254.7	254.7
2.5°	253.7	253.6	253.5	253.4	253.4	253.3	253.3	253.2	253.2	253.1	253.1
5°	252.0	251.7	251.5	251.3	251.3	251.0	250.8	250.6	250.5	250.5	250.3
7.5°	249.5	249.1	248.7	248.4	248.3	247.8	247.5	247.5	247.1	246.9	246.7
10°	246.3	245.6	245.0	244.7	244.3	244.0	243.5	243.2	242.9	242.5	242.4
12.5°	241.9	241.4	240.5	240.1	239.9	239.3	238.5	238.1	238.0	237.7	237.4
15°	236.9	235.8	235.0	234.5	234.5	233.5	233.1	232.6	232.2	231.9	231.8
17.5°	230.4	229.3	228.5	227.9	227.7	226.9	226.3	226.1	225.6	225.8	225.3
20°	222.1	221.2	220.6	219.7	219.7	219.2	219.0	218.6	218.4	218.2	218.4
22.5°	213.2	212.1	211.1	211.0	211.0	210.3	210.2	210.1	209.7	210.0	209.9
25°	202.7	201.9	201.3	201.2	201.2	200.8	200.4	200.6	200.9	200.8	201.1
27.5°	191.8	191.0	190.8	190.7	190.5	190.4	190.6	190.6	190.9	191.3	191.7
30°	180.1	179.9	179.6	179.5	179.3	179.8	180.0	180.2	180.2	180.7	181.1
32.5°	168.3	167.9	167.8	168.0	168.3	168.2	168.8	169.0	169.2	169.9	170.2
35°	156.4	156.3	156.2	156.2	156.2	157.0	157.0	157.7	158.1	158.3	159.1
37.5°	143.7	144.1	144.3	144.6	144.7	145.0	145.2	145.9	146.3	146.6	147.0
40°	132.1	131.9	132.7	132.1	132.3	133.2	133.6	133.5	134.1	134.7	135.1
42.5°	119.6	119.9	120.1	120.3	120.8	120.9	121.4	122.1	122.3	122.9	123.1
45°	107.6	107.7	108.1	108.4	108.7	109.5	109.7	110.0	110.6	110.6	110.9
47.5°	96.2	96.6	96.6	97.2	97.7	97.6	98.3	98.5	98.4	98.8	99.0
50°	85.3	85.9	85.8	86.2	86.4	86.5	87.1	87.3	86.9	87.4	87.5
52.5°	74.9	75.2	75.6	75.7	75.5	76.0	75.8	76.2	76.1	76.5	76.1
55°	65.4	65.3	65.3	65.5	65.3	65.5	65.7	65.3	65.0	65.4	65.3
57.5°	55.9	55.9	55.7	56.0	55.7	55.4	55.3	55.1	54.8	54.8	54.7
60°	47.0	46.8	46.4	46.3	46.3	45.8	45.7	45.3	45.3	44.9	44.5
62.5°	38.7	38.2	37.9	37.9	37.7	37.2	36.3	35.8	35.6	35.0	34.9
65°	30.9	30.4	30.1	29.5	29.0	28.8	27.9	27.2	26.9	26.4	26.4
67.5°	23.7	22.9	22.0	21.6	21.4	20.7	20.4	19.9	19.6	19.6	19.6
70°	17.0	16.4	15.5	15.2	15.0	14.4	14.1	14.0	14.3	14.2	14.3
72.5°	11.5	10.8	10.4	10.2	10.0	9.7	9.9	10.0	9.8	9.9	10.0
75°	7.0	6.8	6.5	6.4	6.4	6.5	6.4	6.4	6.5	6.5	6.6
77.5°	4.0	3.8	3.8	3.7	3.9	3.8	3.8	3.8	3.9	3.9	3.9
80°	2.2	2.2	2.2	2.2	2.3	2.2	2.3	2.3	2.3	2.3	2.3
82.5°	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
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):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	254.7	254.7	254.7	254.7	254.7	254.7	254.7	254.7
2.5°	252.9	252.9	252.9	252.7	252.8	252.8	252.7	252.7
5°	250.2	250.1	249.9	249.9	249.7	249.9	249.8	249.9
7.5°	246.5	246.5	246.2	246.2	246.1	246.0	245.9	246.0
10°	242.1	242.1	241.9	241.8	241.9	241.5	241.5	241.4
12.5°	237.2	237.0	236.8	236.9	236.8	236.5	236.4	236.5
15°	231.5	231.2	231.3	231.0	231.0	230.9	231.1	231.1
17.5°	225.2	225.0	224.8	224.9	224.7	224.8	224.7	224.6
20°	218.3	218.2	218.2	217.8	217.9	217.8	217.9	218.2
22.5°	210.2	210.1	210.2	209.9	210.1	210.1	210.4	210.4
25°	201.4	201.3	201.5	201.6	201.7	202.0	201.7	201.8
27.5°	191.6	191.9	192.2	192.3	192.7	192.4	192.2	192.5
30°	181.7	181.7	181.6	182.0	182.3	182.6	182.1	182.1
32.5°	170.4	170.8	170.8	170.9	171.2	171.2	171.2	171.6
35°	159.5	159.8	159.9	159.5	159.7	159.6	160.3	160.3
37.5°	147.3	147.3	147.4	148.1	148.1	147.8	148.0	148.0
40°	135.8	135.9	135.5	135.7	136.2	136.0	136.2	136.4
42.5°	123.1	123.8	123.4	123.6	123.5	123.6	123.7	123.7
45°	111.1	111.3	111.3	111.4	111.6	111.8	111.2	111.1
47.5°	99.3	99.4	99.7	99.2	99.8	99.2	99.8	99.1
50°	87.5	87.9	87.6	87.8	87.5	87.5	87.4	87.3
52.5°	76.2	76.1	76.1	76.0	76.0	76.2	76.0	76.3
55°	64.9	65.0	64.9	64.8	64.7	64.9	64.7	64.5
57.5°	54.3	54.5	54.1	54.3	53.6	53.9	54.0	54.1
60°	44.4	44.1	44.1	43.7	43.7	44.0	43.6	43.6
62.5°	34.4	34.6	34.3	34.7	34.7	35.1	34.9	35.1
65°	26.4	26.4	26.5	26.5	26.5	27.1	26.9	26.6
67.5°	19.9	20.0	20.1	20.0	20.3	20.1	20.1	20.2
70°	14.4	14.5	14.6	14.6	14.5	14.6	14.6	14.6
72.5°	10.0	10.1	10.0	10.1	10.2	10.1	10.1	10.2
75°	6.6	6.6	6.5	6.5	6.5	6.5	6.6	6.5
77.5°	3.8	3.9	3.8	3.9	3.9	3.9	3.9	3.9
80°	2.3	2.3	2.3	2.2	2.3	2.3	2.3	2.2
82.5°	1.2	1.2	1.1	1.1	1.2	1.2	1.2	1.2
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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)