

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: P858854

Luminaire Tested: **LX4C05D010 EX4C059730 4LBLWWH**

Issue Date: 2/14/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P858854  
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 EX4C059730 4LBLWWH  
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 97CRI LEDS AND  
4LRLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

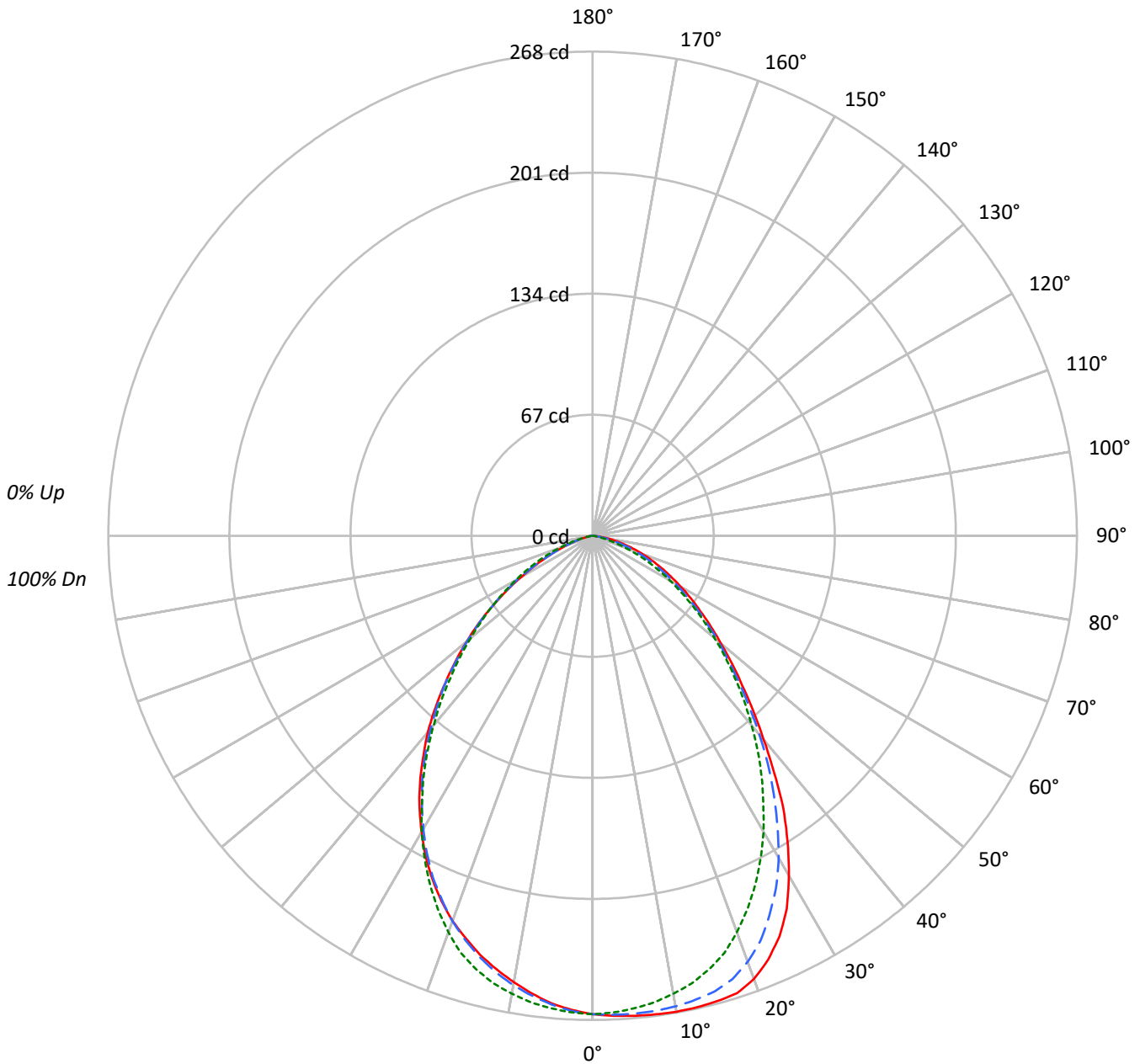
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 499.0 lumens  
Efficiency: N/A  
Efficacy: 69.3 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	49	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°	32532	32532	32532
5°	32890	32385	32039
10°	33370	32110	31299
15°	33921	31606	30550
20°	34136	30527	29651
25°	33156	28873	28439
30°	30812	26840	26854
35°	27581	24461	24986
40°	23623	21939	22741
45°	20328	19337	20067
50°	17679	16838	17335
55°	15550	14479	14351
60°	13833	12089	11131
65°	12151	9680	8052
70°	10417	6825	5460
75°	8449	3987	3180
80°	6084	1698	1556
85°	2255	705	705



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.0	5.0
10°-20°	70.6	14.2
20°-30°	100.9	20.2
30°-40°	105.5	21.1
40°-50°	88.4	17.7
50°-60°	61.9	12.4
60°-70°	33.7	6.8
70°-80°	11.7	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°	196.5	39.4
0°-40°	302.0	60.5
0°-60°	452.3	90.6
0°-90°	499.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	499.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	265	265	265	265	265	
5°	267	266	263	260	260	25
15°	267	261	248	241	240	75
25°	245	232	213	209	210	112
35°	184	175	163	164	167	114
45°	117	114	111	115	116	91
55°	73	70	68	68	67	66
65°	42	38	33	28	28	42
75°	18	14	8	7	7	19
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°	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8
2.5°	266.0	265.7	265.8	265.8	265.8	265.7	265.8	265.7	265.7	265.6	265.4
5°	266.7	266.5	266.5	266.5	266.4	266.3	266.3	266.2	266.0	265.9	265.5
7.5°	267.2	267.0	267.0	266.9	266.8	266.7	266.6	266.3	266.0	265.8	265.3
10°	267.5	267.2	267.2	267.0	266.8	266.7	266.5	266.1	265.7	265.2	264.5
12.5°	267.3	267.0	266.9	266.7	266.3	266.1	265.9	265.4	264.7	264.0	263.1
15°	266.7	266.5	266.3	266.0	265.5	265.2	265.0	264.2	263.3	262.2	261.1
17.5°	265.5	265.2	264.8	264.4	263.7	263.4	262.8	261.8	260.5	259.1	257.3
20°	261.1	260.9	260.5	259.8	258.7	258.3	257.6	256.2	254.5	252.8	250.9
22.5°	253.9	253.6	253.0	252.4	251.3	250.6	250.0	248.2	246.2	244.4	242.7
25°	244.6	244.3	243.5	242.7	241.7	240.4	239.8	238.4	236.5	234.1	231.6
27.5°	232.7	231.7	231.4	230.5	228.9	228.5	227.6	225.8	223.9	221.9	219.8
30°	217.2	217.2	216.6	216.2	214.8	214.4	213.4	211.4	210.4	207.5	205.9
32.5°	200.8	200.6	200.1	199.8	199.0	198.3	197.3	196.2	194.0	192.6	190.3
35°	183.9	182.7	182.9	182.3	181.8	181.0	180.9	179.7	177.7	176.9	174.9
37.5°	164.7	164.2	164.9	164.0	163.5	163.6	162.7	162.0	161.2	159.8	159.4
40°	147.3	147.7	147.6	146.8	147.2	146.6	145.8	145.1	144.7	143.8	143.5
42.5°	131.7	131.1	130.9	130.9	131.0	131.0	130.6	130.0	130.0	129.1	128.2
45°	117.0	117.0	116.8	117.4	116.5	116.5	116.2	116.1	115.7	115.5	114.4
47.5°	104.4	104.3	104.2	104.1	104.0	104.0	103.4	102.9	102.8	102.1	101.5
50°	92.5	93.1	92.9	92.4	92.2	92.3	91.9	91.6	91.5	90.4	90.5
52.5°	82.5	82.4	82.6	82.3	81.8	81.9	81.5	81.1	80.7	80.1	79.7
55°	72.6	73.1	72.9	72.6	72.5	72.3	72.0	71.5	71.4	70.3	70.2
57.5°	64.4	64.3	64.1	63.5	63.4	63.1	63.1	62.7	62.1	61.5	61.0
60°	56.3	56.3	56.0	55.9	55.5	55.4	55.3	54.9	54.2	53.7	52.9
62.5°	48.6	48.8	48.6	48.3	48.0	47.6	47.4	47.0	46.4	45.9	45.2
65°	41.8	41.7	41.6	41.1	41.0	40.6	40.5	39.9	39.3	38.9	38.1
67.5°	35.2	34.9	34.9	34.7	34.5	34.2	34.0	33.4	32.7	32.3	31.5
70°	29.0	28.8	28.8	28.8	28.3	28.0	27.9	27.6	26.6	26.2	25.4
72.5°	23.3	23.2	23.1	22.8	22.5	22.5	22.1	21.5	21.0	20.5	19.9
75°	17.8	18.0	17.8	17.4	17.3	17.1	16.8	16.3	15.8	15.2	14.5
77.5°	13.0	12.8	12.6	12.6	12.4	12.0	11.9	11.5	10.9	10.5	9.8
80°	8.6	8.5	8.2	8.0	7.9	7.8	7.7	7.3	6.7	6.4	5.8
82.5°	4.7	4.6	4.6	4.5	4.2	4.2	4.1	3.7	3.4	3.2	2.9
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°	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8
2.5°	265.2	265.0	264.9	264.8	264.7	264.6	264.5	264.3	264.2	264.1	263.9
5°	265.2	264.8	264.6	264.3	264.1	263.9	263.6	263.3	262.9	262.6	262.3
7.5°	264.8	264.2	263.8	263.2	262.9	262.6	262.0	261.6	261.1	260.5	259.8
10°	263.8	263.1	262.2	261.4	261.1	260.6	259.8	259.1	258.3	257.4	256.7
12.5°	262.1	261.0	260.0	258.9	258.3	257.8	256.6	255.6	254.6	253.7	252.5
15°	259.7	258.4	257.0	255.5	254.8	254.2	252.6	251.3	249.7	248.5	247.3
17.5°	255.7	253.7	252.1	250.1	249.1	248.4	247.0	245.0	243.5	242.2	240.7
20°	248.9	247.0	244.7	242.6	241.5	240.5	238.5	236.5	234.9	233.5	232.0
22.5°	239.9	237.5	235.9	233.2	232.3	231.2	228.7	226.9	225.2	223.7	222.3
25°	229.0	226.9	224.7	222.2	221.1	219.8	217.7	215.8	214.7	213.0	211.3
27.5°	216.5	214.8	212.0	209.9	208.8	207.8	205.8	204.1	202.5	201.3	199.7
30°	203.3	201.2	198.8	196.5	195.9	194.7	193.0	191.7	189.9	189.2	188.5
32.5°	188.7	186.4	184.5	183.1	181.9	180.9	179.9	177.8	177.5	175.7	175.5
35°	172.8	171.8	170.1	168.8	167.8	167.1	165.6	164.6	163.5	163.1	162.4
37.5°	157.9	156.6	155.0	153.9	153.2	153.1	151.9	151.3	150.5	150.1	149.3
40°	142.2	141.7	140.2	140.0	138.9	138.8	138.2	137.5	136.8	136.8	136.9
42.5°	127.7	127.1	126.5	125.8	125.2	125.2	124.9	124.7	124.4	124.1	124.7
45°	114.2	113.3	112.9	112.2	112.5	111.9	111.7	111.7	111.4	111.3	112.0
47.5°	101.5	100.6	100.2	100.0	100.0	100.1	99.2	99.5	99.4	99.6	99.9
50°	90.0	89.2	88.6	88.6	88.7	88.3	87.9	88.2	87.9	88.1	88.8
52.5°	79.3	78.5	78.2	78.2	77.6	77.5	77.7	77.3	77.4	77.5	77.9
55°	69.5	68.9	68.4	67.9	68.0	67.8	67.4	67.3	67.5	67.6	68.1
57.5°	60.6	59.9	59.2	59.0	58.8	58.8	58.3	58.2	58.4	57.8	57.8
60°	52.1	51.7	50.8	50.5	50.5	50.0	49.6	49.8	49.3	49.2	49.3
62.5°	44.3	44.0	43.4	42.8	42.6	42.4	41.9	41.7	41.4	41.0	40.4
65°	37.5	36.8	36.1	35.6	35.3	34.8	34.5	34.1	33.5	33.3	32.7
67.5°	30.7	29.9	29.2	28.9	28.6	28.3	27.8	27.3	26.6	25.8	25.1
70°	24.6	23.7	23.3	22.5	22.3	21.9	21.2	20.7	20.0	19.0	18.3
72.5°	18.8	18.2	17.6	16.9	16.4	16.1	15.5	14.7	13.9	13.3	12.6
75°	13.5	13.2	12.4	11.6	11.4	11.0	10.3	9.8	9.2	8.4	7.7
77.5°	9.2	8.6	8.0	7.3	7.1	6.7	6.3	5.8	5.4	4.9	4.5
80°	5.4	4.9	4.6	4.1	3.9	3.7	3.4	3.0	2.6	2.4	2.3
82.5°	2.6	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°	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8
2.5°	263.8	263.7	263.6	263.5	263.5	263.4	263.4	263.3	263.3	263.2	263.2
5°	261.9	261.6	261.4	261.2	261.2	260.9	260.7	260.5	260.4	260.4	260.2
7.5°	259.4	259.0	258.6	258.3	258.2	257.7	257.2	257.2	256.8	256.6	256.4
10°	256.0	255.3	254.7	254.4	254.0	253.7	253.2	252.9	252.6	252.1	251.9
12.5°	251.4	250.9	250.0	249.6	249.4	248.8	248.0	247.6	247.5	247.1	246.8
15°	246.2	245.1	244.3	243.8	243.8	242.8	242.4	241.8	241.4	241.1	241.0
17.5°	239.5	238.4	237.6	236.9	236.7	235.9	235.2	235.0	234.5	234.7	234.2
20°	230.9	230.0	229.3	228.4	228.4	227.9	227.7	227.2	227.0	226.8	227.0
22.5°	221.6	220.5	219.5	219.4	219.4	218.6	218.5	218.4	218.0	218.3	218.2
25°	210.7	209.9	209.3	209.2	209.2	208.8	208.4	208.6	208.9	208.8	209.1
27.5°	199.4	198.6	198.4	198.3	198.1	198.0	198.2	198.2	198.5	198.9	199.3
30°	187.2	187.0	186.7	186.6	186.4	186.9	187.1	187.4	187.3	187.9	188.3
32.5°	175.0	174.6	174.5	174.7	175.0	174.9	175.5	175.7	175.9	176.6	176.9
35°	162.6	162.5	162.3	162.3	162.4	163.2	163.2	164.0	164.4	164.6	165.4
37.5°	149.4	149.8	150.0	150.3	150.4	150.7	150.9	151.6	152.0	152.5	152.9
40°	137.3	137.1	138.0	137.4	137.6	138.5	138.9	138.8	139.4	140.0	140.4
42.5°	124.3	124.7	124.9	125.1	125.6	125.7	126.2	126.9	127.1	127.8	128.0
45°	111.8	111.9	112.3	112.7	113.0	113.9	114.1	114.4	115.0	115.0	115.3
47.5°	100.0	100.4	100.4	101.0	101.5	101.4	102.1	102.3	102.2	102.8	103.0
50°	88.7	89.3	89.2	89.6	89.8	89.9	90.5	90.7	90.3	90.8	90.9
52.5°	77.9	78.2	78.6	78.7	78.5	79.0	78.8	79.2	79.1	79.5	79.1
55°	68.0	67.9	67.9	68.1	67.9	68.1	68.3	67.9	67.6	68.0	67.9
57.5°	58.2	58.2	57.9	58.3	57.9	57.6	57.5	57.2	56.9	56.9	56.8
60°	48.9	48.7	48.3	48.2	48.2	47.7	47.5	47.0	47.0	46.6	46.2
62.5°	40.2	39.7	39.4	39.4	39.2	38.7	37.8	37.2	37.0	36.4	36.3
65°	32.1	31.6	31.3	30.7	30.1	29.9	29.0	28.3	28.0	27.4	27.5
67.5°	24.6	23.8	22.9	22.5	22.2	21.5	21.2	20.7	20.4	20.4	20.4
70°	17.7	17.0	16.1	15.8	15.6	15.0	14.7	14.6	14.9	14.8	14.9
72.5°	11.9	11.2	10.8	10.6	10.4	10.1	10.3	10.4	10.2	10.3	10.4
75°	7.2	7.0	6.7	6.6	6.6	6.7	6.6	6.6	6.7	6.7	6.8
77.5°	4.2	4.0	4.0	3.9	4.1	4.0	4.0	4.0	4.1	4.1	4.1
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°	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8
2.5°	262.9	262.9	262.9	262.7	262.8	262.8	262.7	262.7
5°	260.1	260.0	259.8	259.8	259.6	259.8	259.7	259.8
7.5°	256.2	256.2	255.9	255.9	255.8	255.7	255.6	255.7
10°	251.6	251.6	251.4	251.3	251.4	251.0	251.0	250.9
12.5°	246.6	246.3	246.1	246.2	246.1	245.8	245.7	245.8
15°	240.6	240.3	240.4	240.1	240.1	240.0	240.2	240.2
17.5°	234.1	233.9	233.7	233.8	233.6	233.7	233.6	233.5
20°	226.9	226.8	226.8	226.4	226.5	226.4	226.5	226.8
22.5°	218.5	218.4	218.5	218.2	218.4	218.4	218.8	218.8
25°	209.4	209.3	209.5	209.6	209.7	210.0	209.7	209.8
27.5°	199.2	199.5	199.8	199.9	200.3	200.0	199.8	200.1
30°	188.9	188.9	188.8	189.2	189.5	189.8	189.3	189.3
32.5°	177.1	177.6	177.6	177.7	178.0	178.0	178.0	178.4
35°	165.8	166.1	166.2	165.8	166.0	165.9	166.6	166.6
37.5°	153.2	153.2	153.3	154.0	154.0	153.7	153.9	153.9
40°	141.1	141.3	140.8	141.0	141.6	141.4	141.6	141.8
42.5°	128.0	128.7	128.3	128.5	128.4	128.5	128.6	128.6
45°	115.5	115.7	115.7	115.8	116.0	116.2	115.6	115.5
47.5°	103.3	103.4	103.7	103.2	103.8	103.2	103.8	103.1
50°	90.9	91.3	91.0	91.2	90.9	90.9	90.8	90.7
52.5°	79.2	79.1	79.1	79.0	79.0	79.2	79.0	79.3
55°	67.5	67.6	67.4	67.3	67.2	67.5	67.2	67.0
57.5°	56.4	56.6	56.2	56.4	55.7	56.0	56.1	56.2
60°	46.1	45.8	45.8	45.4	45.4	45.7	45.3	45.3
62.5°	35.7	35.9	35.6	36.1	36.1	36.5	36.3	36.5
65°	27.4	27.5	27.6	27.6	27.6	28.2	28.0	27.7
67.5°	20.7	20.8	20.9	20.8	21.1	20.9	20.9	21.0
70°	15.0	15.1	15.2	15.2	15.1	15.2	15.2	15.2
72.5°	10.4	10.5	10.4	10.5	10.6	10.5	10.5	10.6
75°	6.8	6.8	6.7	6.7	6.7	6.7	6.8	6.7
77.5°	4.0	4.1	4.0	4.1	4.1	4.1	4.1	4.1
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)