

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: P858838

Luminaire Tested: **LX4C05D010 EX4C059050 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P858838
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 EX4C059050 4LBLWWH
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

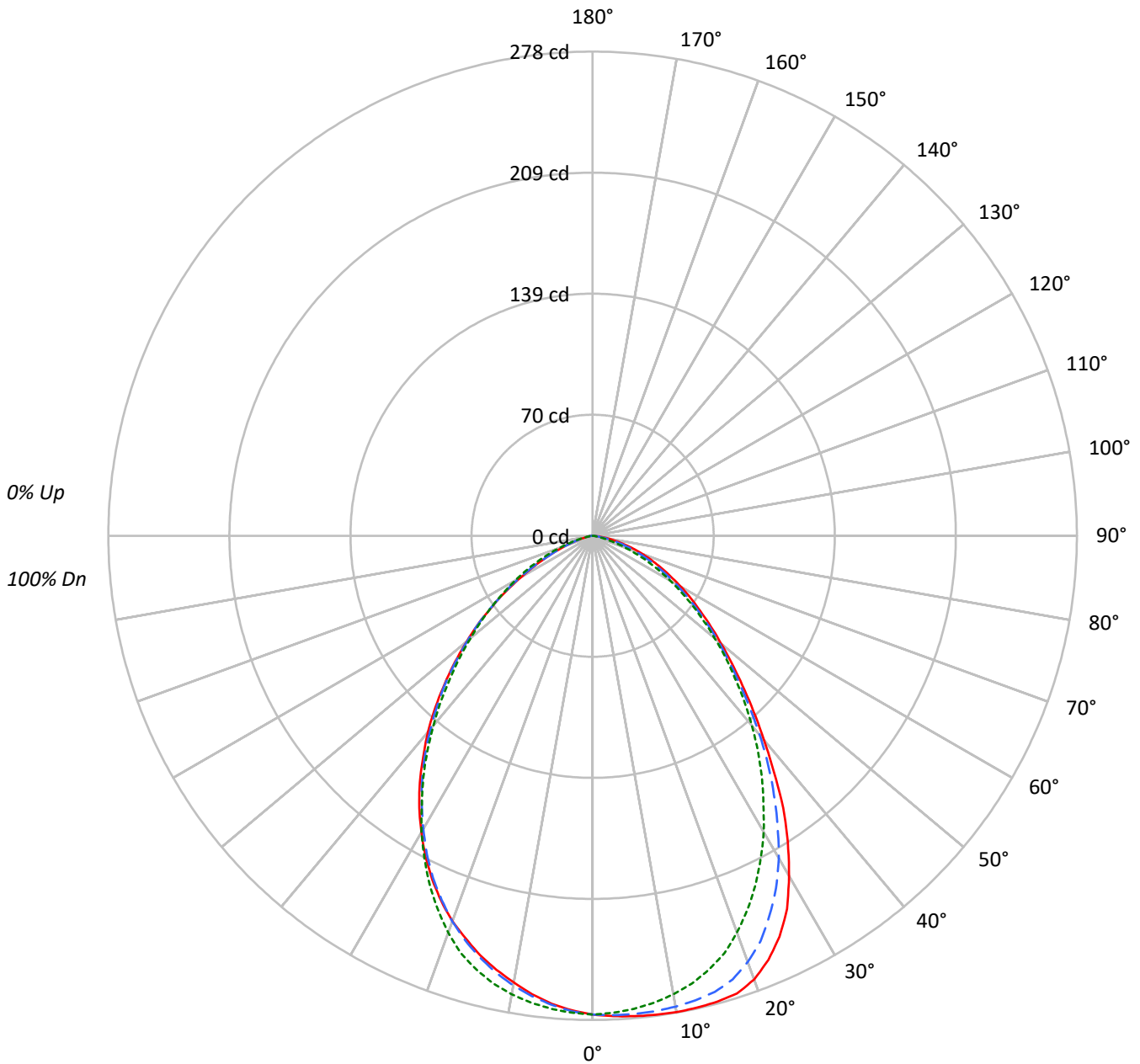
Lumens per Lamp: N/A
Luminaire Lumens: 518.0 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
Input Voltage (V):
Input Current (A_{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	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°	33772	33772	33772
5°	34148	33618	33260
10°	34643	33345	32497
15°	35218	32802	31721
20°	35443	31691	30776
25°	34417	29985	29524
30°	31989	27861	27875
35°	28630	25406	25946
40°	24521	22773	23607
45°	21110	20067	20832
50°	18348	17469	18004
55°	16150	15036	14908
60°	14374	12556	11548
65°	12587	10058	8372
70°	10812	7112	5675
75°	8781	4130	3323
80°	6297	1769	1627
85°	2396	705	705



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.9	5.0
10°-20°	73.3	14.2
20°-30°	104.7	20.2
30°-40°	109.5	21.1
40°-50°	91.8	17.7
50°-60°	64.2	12.4
60°-70°	35.0	6.8
70°-80°	12.1	2.3
80°-90°	1.4	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°	203.9	39.4
0°-40°	313.5	60.5
0°-60°	469.5	90.6
0°-90°	518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	518.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	275	275	275	275	275	
5°	277	276	273	270	270	26
15°	277	271	258	250	249	78
25°	254	240	221	217	218	116
35°	191	182	169	171	173	118
45°	122	119	116	119	120	94
55°	75	73	70	70	70	68
65°	43	40	35	29	29	43
75°	18	15	9	7	7	20
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°	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9
2.5°	276.1	275.8	275.9	275.9	275.9	275.8	275.9	275.8	275.8	275.7	275.5
5°	276.9	276.7	276.7	276.7	276.6	276.4	276.4	276.3	276.1	276.0	275.6
7.5°	277.4	277.2	277.2	277.1	277.0	276.9	276.8	276.4	276.1	275.9	275.4
10°	277.7	277.4	277.4	277.2	277.0	276.9	276.7	276.2	275.8	275.3	274.5
12.5°	277.5	277.2	277.1	276.9	276.4	276.2	276.0	275.5	274.8	274.0	273.1
15°	276.9	276.7	276.4	276.1	275.6	275.3	275.1	274.2	273.3	272.2	271.1
17.5°	275.6	275.3	274.9	274.4	273.7	273.4	272.9	271.8	270.4	268.9	267.1
20°	271.1	270.8	270.4	269.7	268.5	268.1	267.4	266.0	264.2	262.4	260.5
22.5°	263.6	263.2	262.6	262.0	260.9	260.2	259.5	257.6	255.6	253.7	251.9
25°	253.9	253.6	252.8	251.9	250.9	249.6	249.0	247.5	245.5	243.0	240.4
27.5°	241.6	240.5	240.2	239.2	237.7	237.2	236.3	234.4	232.5	230.4	228.1
30°	225.5	225.5	224.9	224.4	223.0	222.5	221.5	219.5	218.4	215.5	213.8
32.5°	208.5	208.3	207.7	207.4	206.6	205.8	204.8	203.7	201.4	199.9	197.6
35°	190.9	189.7	189.9	189.2	188.7	187.9	187.8	186.6	184.5	183.6	181.5
37.5°	170.9	170.4	171.2	170.2	169.7	169.8	168.9	168.2	167.3	165.9	165.4
40°	152.9	153.3	153.2	152.3	152.8	152.2	151.4	150.6	150.2	149.3	149.0
42.5°	136.7	136.1	135.8	135.8	136.0	136.0	135.5	135.0	135.0	134.0	133.1
45°	121.5	121.5	121.3	121.9	120.9	120.9	120.6	120.5	120.1	119.9	118.7
47.5°	108.4	108.3	108.1	108.0	107.9	107.9	107.3	106.8	106.7	106.0	105.4
50°	96.0	96.6	96.4	95.9	95.7	95.8	95.4	95.0	94.9	93.9	94.0
52.5°	85.6	85.5	85.7	85.4	84.9	85.0	84.6	84.2	83.7	83.2	82.8
55°	75.4	75.9	75.7	75.4	75.3	75.1	74.7	74.2	74.1	72.9	72.8
57.5°	66.8	66.7	66.5	66.0	65.9	65.5	65.5	65.1	64.5	63.9	63.3
60°	58.5	58.5	58.1	58.0	57.6	57.5	57.4	57.0	56.2	55.7	54.9
62.5°	50.4	50.6	50.4	50.1	49.8	49.4	49.2	48.8	48.2	47.7	46.9
65°	43.3	43.2	43.1	42.7	42.6	42.2	42.1	41.4	40.8	40.4	39.5
67.5°	36.6	36.3	36.3	36.0	35.8	35.5	35.3	34.7	33.9	33.5	32.7
70°	30.1	29.9	29.9	29.9	29.4	29.1	29.0	28.6	27.6	27.2	26.3
72.5°	24.2	24.1	24.0	23.7	23.4	23.4	22.9	22.3	21.8	21.2	20.6
75°	18.5	18.7	18.5	18.1	18.0	17.8	17.4	16.9	16.4	15.8	15.0
77.5°	13.5	13.3	13.1	13.1	12.9	12.5	12.4	11.9	11.3	10.9	10.1
80°	8.9	8.8	8.6	8.4	8.2	8.1	8.0	7.6	7.0	6.7	6.0
82.5°	4.9	4.8	4.8	4.7	4.3	4.3	4.2	3.8	3.5	3.3	3.0
85°	1.7	1.7	1.7	1.6	1.6	1.6	1.5	1.4	1.3	1.2	1.0
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°	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9
2.5°	275.3	275.1	275.0	274.9	274.8	274.7	274.5	274.3	274.2	274.1	273.9
5°	275.3	274.9	274.7	274.3	274.1	273.9	273.6	273.3	273.0	272.6	272.3
7.5°	274.9	274.2	273.8	273.2	273.0	272.6	272.0	271.6	271.1	270.4	269.7
10°	273.8	273.1	272.2	271.4	271.1	270.5	269.7	268.9	268.1	267.3	266.5
12.5°	272.1	271.0	269.9	268.7	268.1	267.6	266.4	265.3	264.3	263.3	262.1
15°	269.6	268.2	266.8	265.2	264.5	263.9	262.2	260.9	259.2	257.9	256.7
17.5°	265.5	263.3	261.6	259.6	258.6	257.8	256.4	254.4	252.8	251.4	249.9
20°	258.4	256.4	254.0	251.8	250.7	249.7	247.6	245.5	243.9	242.4	240.8
22.5°	249.1	246.5	244.8	242.1	241.1	240.0	237.4	235.5	233.7	232.3	230.8
25°	237.8	235.5	233.2	230.7	229.5	228.1	226.0	224.0	222.9	221.2	219.4
27.5°	224.8	223.0	220.1	217.9	216.7	215.7	213.7	211.9	210.2	209.0	207.3
30°	211.0	208.9	206.4	204.0	203.4	202.1	200.3	199.0	197.2	196.4	195.7
32.5°	195.9	193.5	191.6	190.1	188.8	187.8	186.8	184.6	184.3	182.4	182.1
35°	179.4	178.3	176.5	175.3	174.2	173.5	171.9	170.8	169.7	169.4	168.6
37.5°	163.9	162.6	160.9	159.7	159.0	158.9	157.7	157.1	156.2	155.8	155.0
40°	147.6	147.1	145.6	145.4	144.2	144.1	143.5	142.7	142.0	142.0	142.1
42.5°	132.6	131.9	131.3	130.6	129.9	129.9	129.6	129.4	129.2	128.9	129.4
45°	118.5	117.7	117.2	116.5	116.8	116.2	116.0	116.0	115.7	115.5	116.3
47.5°	105.4	104.4	104.0	103.8	103.8	103.9	103.0	103.3	103.2	103.4	103.7
50°	93.5	92.6	92.0	92.0	92.1	91.7	91.2	91.6	91.2	91.4	92.2
52.5°	82.4	81.5	81.2	81.2	80.6	80.5	80.7	80.2	80.3	80.5	80.9
55°	72.1	71.6	71.0	70.5	70.6	70.4	70.0	69.9	70.1	70.2	70.7
57.5°	62.9	62.2	61.4	61.2	61.0	61.0	60.5	60.4	60.6	60.0	60.0
60°	54.1	53.7	52.8	52.4	52.4	51.9	51.5	51.7	51.2	51.1	51.2
62.5°	46.0	45.7	45.0	44.4	44.2	44.0	43.4	43.2	43.0	42.6	42.0
65°	38.9	38.2	37.4	37.0	36.7	36.2	35.8	35.4	34.8	34.6	33.9
67.5°	31.8	31.1	30.3	30.0	29.7	29.4	28.9	28.3	27.6	26.7	26.0
70°	25.6	24.6	24.2	23.4	23.2	22.7	22.0	21.5	20.7	19.8	19.0
72.5°	19.6	18.9	18.3	17.5	17.0	16.7	16.1	15.2	14.4	13.8	13.1
75°	14.1	13.7	12.9	12.1	11.8	11.4	10.7	10.1	9.5	8.7	8.0
77.5°	9.5	8.9	8.4	7.6	7.4	7.0	6.6	6.0	5.6	5.1	4.7
80°	5.6	5.1	4.8	4.2	4.0	3.8	3.5	3.1	2.7	2.5	2.4
82.5°	2.7	2.3	2.2	1.9	1.8	1.7	1.5	1.4	1.2	1.2	1.2
85°	1.0	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°	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9
2.5°	273.8	273.7	273.6	273.5	273.5	273.4	273.4	273.3	273.3	273.2	273.2
5°	271.9	271.6	271.4	271.2	271.2	270.8	270.6	270.4	270.3	270.3	270.1
7.5°	269.3	268.8	268.4	268.1	268.0	267.5	267.0	267.0	266.6	266.4	266.2
10°	265.8	265.0	264.4	264.1	263.7	263.3	262.8	262.5	262.2	261.6	261.5
12.5°	261.0	260.5	259.5	259.1	258.9	258.3	257.4	257.0	256.9	256.5	256.2
15°	255.6	254.5	253.6	253.1	253.1	252.0	251.6	251.0	250.5	250.2	250.1
17.5°	248.6	247.5	246.6	245.9	245.7	244.8	244.2	244.0	243.5	243.7	243.1
20°	239.7	238.7	238.1	237.1	237.1	236.6	236.4	235.9	235.6	235.4	235.6
22.5°	230.0	228.9	227.8	227.7	227.7	227.0	226.9	226.8	226.3	226.7	226.6
25°	218.7	217.9	217.2	217.1	217.1	216.7	216.3	216.5	216.8	216.7	217.0
27.5°	207.0	206.1	205.9	205.8	205.6	205.5	205.7	205.7	206.0	206.5	206.9
30°	194.3	194.1	193.8	193.7	193.5	194.0	194.2	194.5	194.4	195.0	195.5
32.5°	181.6	181.2	181.1	181.3	181.6	181.5	182.1	182.4	182.6	183.3	183.6
35°	168.8	168.7	168.5	168.5	168.6	169.5	169.5	170.2	170.6	170.8	171.7
37.5°	155.1	155.5	155.7	156.0	156.1	156.5	156.7	157.4	157.8	158.3	158.7
40°	142.5	142.3	143.2	142.6	142.8	143.8	144.2	144.1	144.7	145.4	145.8
42.5°	129.1	129.4	129.6	129.8	130.3	130.5	131.0	131.7	131.9	132.7	132.9
45°	116.1	116.2	116.6	117.0	117.3	118.2	118.4	118.7	119.4	119.4	119.7
47.5°	103.8	104.2	104.2	104.9	105.4	105.3	106.0	106.2	106.1	106.7	106.9
50°	92.1	92.7	92.6	93.0	93.2	93.3	94.0	94.2	93.8	94.3	94.4
52.5°	80.9	81.2	81.6	81.7	81.5	82.0	81.8	82.2	82.1	82.6	82.1
55°	70.6	70.5	70.5	70.7	70.5	70.7	70.9	70.5	70.2	70.6	70.5
57.5°	60.4	60.4	60.2	60.5	60.2	59.8	59.7	59.4	59.1	59.1	59.0
60°	50.7	50.5	50.1	50.0	50.0	49.5	49.3	48.8	48.8	48.4	48.0
62.5°	41.8	41.2	40.9	40.9	40.7	40.2	39.2	38.6	38.4	37.7	37.6
65°	33.3	32.8	32.5	31.8	31.3	31.1	30.1	29.4	29.1	28.4	28.5
67.5°	25.6	24.7	23.8	23.4	23.0	22.3	22.0	21.5	21.1	21.1	21.1
70°	18.4	17.7	16.7	16.4	16.2	15.5	15.2	15.1	15.4	15.3	15.4
72.5°	12.4	11.6	11.2	11.0	10.8	10.5	10.7	10.8	10.6	10.7	10.8
75°	7.5	7.3	7.0	6.9	6.9	7.0	6.9	6.9	7.0	7.0	7.1
77.5°	4.3	4.1	4.1	4.0	4.2	4.1	4.1	4.1	4.2	4.2	4.2
80°	2.3	2.3	2.3	2.3	2.4	2.3	2.4	2.4	2.4	2.4	2.4
82.5°	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.2
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°	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9
2.5°	273.0	273.0	273.0	272.7	272.9	272.9	272.7	272.7
5°	270.0	269.9	269.7	269.7	269.5	269.7	269.6	269.7
7.5°	266.0	266.0	265.7	265.7	265.6	265.5	265.3	265.5
10°	261.2	261.2	261.0	260.9	261.0	260.6	260.6	260.5
12.5°	255.9	255.7	255.5	255.6	255.5	255.2	255.1	255.2
15°	249.8	249.5	249.6	249.3	249.3	249.2	249.4	249.4
17.5°	243.0	242.8	242.6	242.7	242.5	242.6	242.5	242.4
20°	235.5	235.4	235.4	235.0	235.1	235.0	235.1	235.4
22.5°	226.9	226.8	226.9	226.6	226.8	226.8	227.1	227.1
25°	217.4	217.2	217.5	217.6	217.7	218.0	217.7	217.8
27.5°	206.8	207.1	207.4	207.5	207.9	207.6	207.4	207.7
30°	196.1	196.1	196.0	196.4	196.7	197.1	196.5	196.5
32.5°	183.8	184.4	184.4	184.5	184.8	184.8	184.8	185.2
35°	172.1	172.4	172.5	172.1	172.3	172.2	173.0	173.0
37.5°	159.0	159.0	159.1	159.8	159.8	159.5	159.7	159.7
40°	146.5	146.6	146.2	146.4	146.9	146.7	146.9	147.2
42.5°	132.9	133.6	133.2	133.4	133.3	133.4	133.5	133.5
45°	119.9	120.1	120.1	120.2	120.4	120.6	120.0	119.9
47.5°	107.2	107.3	107.6	107.1	107.7	107.1	107.7	107.0
50°	94.4	94.8	94.5	94.7	94.4	94.4	94.3	94.2
52.5°	82.2	82.1	82.1	82.0	82.0	82.2	82.0	82.4
55°	70.1	70.2	70.0	69.9	69.8	70.1	69.8	69.6
57.5°	58.6	58.8	58.4	58.6	57.8	58.1	58.2	58.4
60°	47.9	47.6	47.6	47.1	47.1	47.5	47.0	47.0
62.5°	37.1	37.3	37.0	37.4	37.4	37.8	37.6	37.8
65°	28.4	28.5	28.6	28.6	28.6	29.3	29.1	28.8
67.5°	21.5	21.6	21.7	21.6	21.9	21.7	21.7	21.8
70°	15.5	15.6	15.8	15.8	15.6	15.8	15.8	15.8
72.5°	10.8	10.9	10.8	10.9	11.0	10.9	10.9	11.0
75°	7.1	7.1	7.0	7.0	7.0	7.0	7.1	7.0
77.5°	4.1	4.2	4.1	4.2	4.2	4.2	4.2	4.2
80°	2.4	2.4	2.4	2.3	2.4	2.4	2.4	2.3
82.5°	1.3	1.3	1.2	1.2	1.3	1.3	1.3	1.3
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)