

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: P684354

Luminaire Tested: **LX6C05D010 EX6C059050 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-10)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C05D010 EX6C059050 6LBLWWH
Description: 6 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

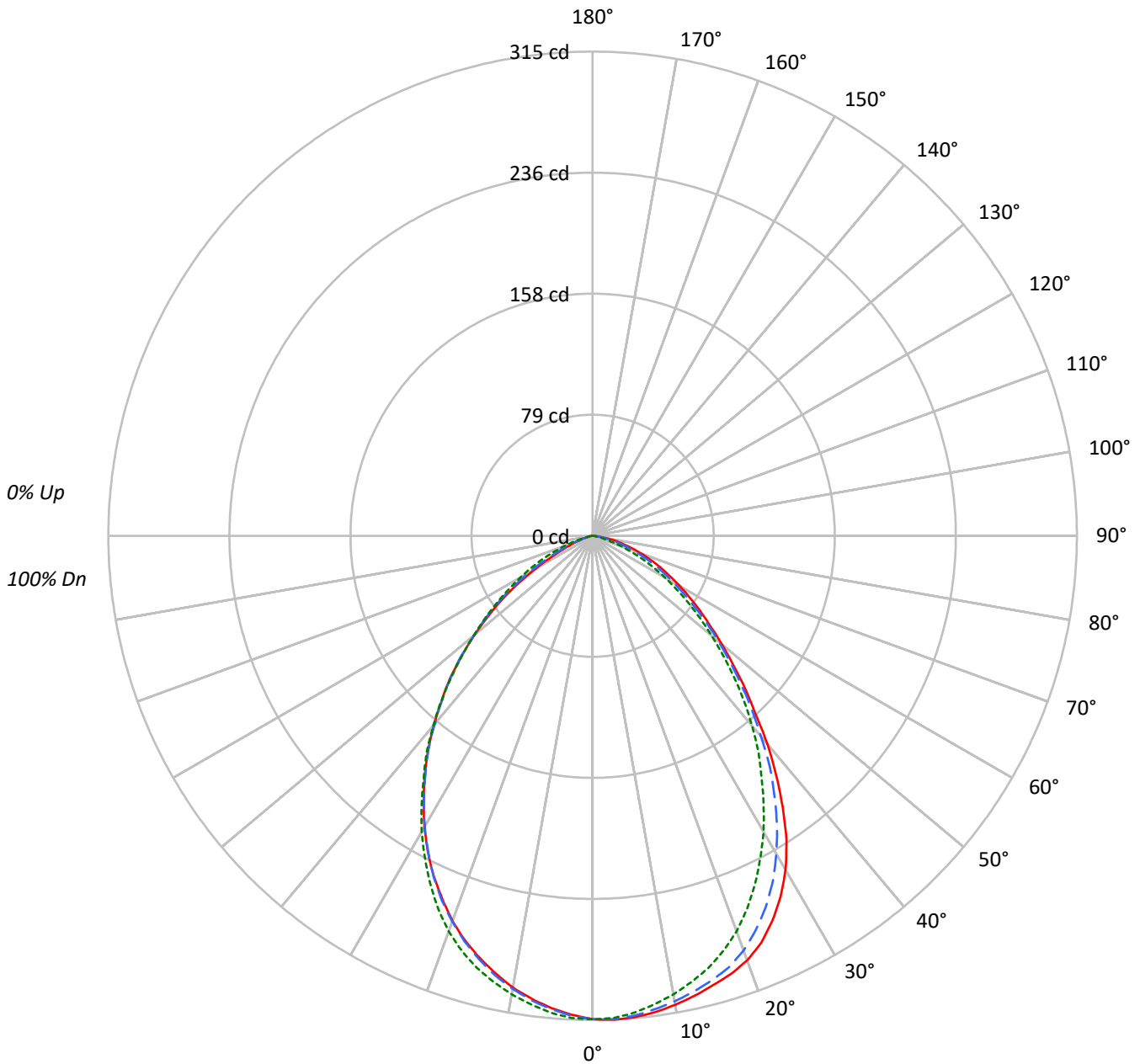
Lumens per Lamp: N/A
Luminaire Lumens: 572.0 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	90	85	91	87	83	88	85	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68																			
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60																			
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43																			
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39																			
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	17241	17241	17241
5°	17301	17142	16971
10°	17245	16861	16616
15°	17179	16515	16129
20°	17146	15973	15547
25°	16725	15116	14783
30°	15889	14078	13844
35°	14422	12816	12735
40°	12652	11536	11479
45°	10846	10079	10164
50°	9339	8588	8546
55°	8162	7254	6805
60°	7170	5943	4649
65°	6278	4605	2802
70°	5353	3093	1651
75°	4321	1610	890
80°	2999	631	505
85°	1195	189	252



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.5	5.2
10°-20°	82.3	14.4
20°-30°	117.1	20.5
30°-40°	123.2	21.5
40°-50°	102.7	18.0
50°-60°	69.4	12.1
60°-70°	35.2	6.2
70°-80°	11.4	2.0
80°-90°	1.3	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°	228.8	40.0
0°-40°	352.1	61.6
0°-60°	524.2	91.6
0°-90°	572.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	572.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	314	314	314	314	314	
5°	314	313	312	309	308	30
15°	303	300	291	285	284	86
25°	276	266	250	245	244	127
35°	216	206	192	190	190	134
45°	140	136	130	130	131	108
55°	85	81	76	74	71	77
65°	48	44	36	26	22	48
75°	20	16	8	4	4	22
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°	314.5	314.5	314.5	314.5	314.5	314.5	314.5	314.5	314.5	314.5	314.5
2.5°	315.2	315.2	315.2	315.2	315.2	315.2	315.1	315.1	314.9	314.9	314.8
5°	314.4	314.5	314.5	314.4	314.4	314.1	314.1	314.0	313.7	313.5	313.4
7.5°	312.6	312.6	312.5	312.4	312.2	311.9	311.8	311.5	311.3	311.1	310.7
10°	309.8	309.8	309.7	309.5	309.4	309.2	309.2	308.8	308.3	307.8	307.5
12.5°	306.5	306.6	306.4	306.3	306.0	305.9	305.7	305.2	304.8	304.2	303.7
15°	302.7	302.9	302.9	302.5	302.2	302.1	301.8	301.5	300.7	300.1	299.5
17.5°	299.0	299.2	299.0	298.7	298.4	298.0	297.8	297.1	296.2	295.3	294.4
20°	293.9	294.2	293.7	293.2	292.6	292.5	292.2	291.1	289.7	288.5	287.1
22.5°	286.6	286.3	286.0	285.8	284.8	284.1	283.7	282.3	280.9	279.2	277.5
25°	276.5	276.9	276.3	275.4	274.8	274.2	273.1	271.7	270.3	268.5	266.5
27.5°	264.7	264.7	263.8	263.5	262.4	261.5	261.0	259.5	257.7	255.9	253.7
30°	251.0	250.4	250.4	248.9	248.0	247.7	247.1	244.7	243.1	241.2	239.0
32.5°	234.6	234.4	234.0	233.1	231.8	230.7	230.7	229.1	226.9	224.6	223.2
35°	215.5	215.6	215.4	214.4	214.4	213.1	212.9	211.4	209.7	207.9	206.2
37.5°	195.9	196.3	195.9	195.3	195.0	194.9	194.0	192.9	191.6	190.6	189.3
40°	176.8	176.2	176.4	175.4	175.5	175.3	174.8	173.5	172.7	171.7	170.3
42.5°	156.3	157.0	157.2	156.5	156.3	155.9	156.3	155.8	155.0	154.4	153.2
45°	139.9	139.3	139.6	139.4	139.5	138.7	138.4	138.2	137.8	136.9	136.4
47.5°	123.7	123.8	123.7	123.2	123.0	123.0	122.6	122.0	122.0	121.3	120.9
50°	109.5	109.5	109.7	109.2	109.0	108.6	108.7	108.0	107.6	107.1	106.8
52.5°	96.5	96.6	96.2	96.3	96.1	96.1	95.7	95.2	94.8	93.9	93.7
55°	85.4	85.5	85.0	85.2	84.6	84.2	84.0	83.4	83.4	82.4	81.3
57.5°	75.0	74.9	74.8	74.5	74.1	73.8	73.5	72.7	72.4	71.8	70.8
60°	65.4	65.3	65.1	65.0	64.7	63.9	63.9	63.4	62.4	61.7	60.8
62.5°	56.3	56.3	56.2	55.9	55.6	55.3	55.1	54.6	53.6	52.9	52.0
65°	48.4	48.3	48.0	47.5	47.2	47.2	46.5	46.2	45.3	44.6	43.7
67.5°	40.8	40.4	40.2	40.3	39.6	39.6	39.0	38.5	37.7	36.5	35.7
70°	33.4	33.2	33.0	32.8	32.7	32.2	31.9	31.3	30.5	29.6	28.4
72.5°	26.7	26.7	26.4	26.2	25.9	25.5	25.3	24.7	23.9	22.8	22.0
75°	20.4	20.4	20.4	20.0	19.8	19.6	18.9	18.6	17.7	17.0	16.0
77.5°	15.0	14.8	14.5	14.4	14.2	14.0	13.6	13.1	12.3	11.5	10.9
80°	9.5	9.8	9.5	9.5	9.0	8.8	8.7	8.0	7.7	7.1	6.6
82.5°	5.3	5.4	5.2	5.1	4.8	4.7	4.7	4.2	4.0	3.6	3.3
85°	1.9	2.0	1.9	1.9	1.7	1.8	1.7	1.6	1.4	1.2	1.1
87.5°	0.1	0.1	0.1	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	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°	314.5	314.5	314.5	314.5	314.5	314.5	314.5	314.5	314.5	314.5	314.5
2.5°	314.8	314.6	314.6	314.5	314.4	314.4	314.4	314.3	314.0	314.0	313.9
5°	313.2	313.0	312.7	312.5	312.4	312.2	312.1	312.0	311.6	311.5	311.2
7.5°	310.3	310.1	309.6	309.4	309.1	309.0	308.5	308.3	307.9	307.5	307.3
10°	307.0	306.4	306.0	305.5	305.3	305.0	304.4	303.8	303.5	302.9	302.5
12.5°	303.2	302.5	301.7	301.0	300.8	300.3	299.5	298.9	298.2	297.3	296.6
15°	298.4	297.7	296.9	295.8	295.4	294.8	294.0	292.9	291.8	291.0	290.2
17.5°	293.2	292.1	290.9	289.6	288.7	288.4	287.0	285.5	284.6	283.1	282.1
20°	285.9	284.3	282.4	281.2	280.3	279.4	277.8	276.2	275.0	273.8	272.4
22.5°	275.9	274.4	272.2	270.3	269.6	268.3	266.9	265.4	263.9	262.6	260.9
25°	264.0	262.5	260.2	258.3	257.3	256.6	254.0	252.5	251.0	249.9	248.7
27.5°	251.9	249.0	247.6	244.6	243.6	243.4	241.0	239.4	237.8	236.2	234.8
30°	236.9	234.7	232.4	230.3	229.1	228.3	226.5	224.5	223.5	222.4	220.9
32.5°	221.3	219.3	216.6	214.6	213.6	212.6	211.0	209.6	208.0	206.9	206.5
35°	204.7	202.5	200.2	198.7	198.5	197.2	195.7	194.5	193.3	191.5	191.2
37.5°	187.0	185.7	184.1	182.0	181.1	181.1	179.5	178.6	177.2	177.1	176.2
40°	169.5	169.0	166.6	166.0	165.7	164.3	163.8	162.4	161.3	161.2	159.9
42.5°	152.3	150.9	150.5	149.5	148.5	148.3	147.3	146.7	146.3	145.7	145.0
45°	135.2	134.9	133.8	133.1	132.8	132.3	132.0	130.8	130.5	130.0	129.7
47.5°	120.4	119.5	118.6	117.8	117.6	117.0	116.3	116.3	115.1	115.0	114.8
50°	105.7	105.1	104.5	103.4	103.6	102.7	102.6	101.7	101.2	100.7	101.3
52.5°	92.8	91.5	91.3	90.4	90.1	90.2	89.0	88.7	88.5	88.0	87.8
55°	80.5	79.9	79.1	78.4	77.9	77.4	77.0	77.0	75.8	75.9	75.4
57.5°	69.8	69.2	68.2	67.2	67.0	66.4	65.9	65.3	65.2	64.5	63.9
60°	60.1	59.2	57.8	57.4	56.8	56.2	55.7	55.1	54.8	54.2	53.3
62.5°	51.2	49.6	49.0	48.2	47.5	47.1	46.3	45.6	45.0	44.3	43.5
65°	42.6	41.4	40.5	39.5	39.4	38.6	37.8	37.2	36.2	35.5	34.1
67.5°	34.8	33.7	32.7	31.7	31.0	30.8	29.6	28.9	28.1	26.8	25.7
70°	27.6	26.5	25.7	24.5	24.2	23.4	22.5	21.8	20.5	19.3	18.4
72.5°	21.0	19.9	18.9	18.1	17.5	16.8	16.0	15.1	13.8	12.7	11.8
75°	15.0	14.2	13.2	12.4	11.9	11.5	10.6	9.6	8.8	7.6	6.9
77.5°	10.1	9.3	8.5	7.7	7.2	6.9	6.2	5.5	4.8	4.1	3.6
80°	5.9	5.4	4.8	4.1	4.0	3.7	3.2	2.7	2.3	2.0	1.6
82.5°	2.9	2.5	2.1	1.8	1.6	1.5	1.3	1.1	0.8	0.7	0.7
85°	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3
87.5°	0.1	0.1	0.1	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	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°	314.5	314.5	314.5	314.5	314.5	314.5	314.5	314.5	314.5	314.5	314.5
2.5°	313.6	313.5	313.4	313.3	313.1	313.1	312.8	312.6	312.6	312.4	312.2
5°	310.9	310.6	310.4	310.2	310.0	309.9	309.5	309.4	309.2	309.0	309.0
7.5°	307.0	306.5	306.1	305.9	305.8	305.5	305.3	305.2	304.8	304.6	304.2
10°	301.8	301.5	300.9	300.7	300.5	300.3	299.8	299.5	299.3	299.1	298.9
12.5°	295.8	295.3	294.8	294.4	294.2	293.9	293.3	293.0	293.0	292.6	292.6
15°	289.3	288.7	287.7	287.3	287.2	286.6	286.1	285.7	285.2	285.0	285.0
17.5°	281.1	280.0	279.2	279.2	278.7	278.1	277.5	277.2	276.8	276.4	276.2
20°	271.3	270.6	269.6	269.6	268.7	268.5	267.8	267.7	267.0	267.1	266.8
22.5°	259.6	259.2	258.7	258.2	257.7	257.1	256.8	256.9	256.5	256.4	256.3
25°	247.8	246.6	246.0	245.8	245.5	245.0	244.8	244.7	244.7	244.4	244.5
27.5°	234.1	233.3	232.4	232.8	232.3	232.0	231.8	231.5	231.7	231.6	231.7
30°	220.2	219.1	218.6	218.8	218.7	217.9	218.3	218.2	218.3	218.3	218.5
32.5°	205.5	204.7	204.6	204.7	203.8	203.9	203.5	204.1	204.2	204.9	204.3
35°	190.6	190.2	189.4	189.3	189.4	189.3	189.3	189.7	189.6	190.3	190.1
37.5°	175.3	175.0	174.3	174.5	174.1	174.8	175.0	174.8	175.6	175.4	175.3
40°	160.2	159.9	159.5	160.4	159.8	159.4	160.1	159.5	159.7	160.4	160.4
42.5°	145.0	144.5	144.5	144.5	144.4	144.4	144.7	145.0	144.8	144.9	145.8
45°	129.7	129.6	129.3	129.5	129.4	129.9	129.9	130.1	130.5	131.0	130.8
47.5°	114.9	114.7	115.0	114.8	114.9	114.6	114.8	115.4	116.0	115.2	116.0
50°	101.1	100.6	100.5	100.8	100.7	100.6	100.8	100.8	100.6	100.6	101.4
52.5°	87.8	87.4	87.1	87.6	87.3	87.4	87.0	87.0	87.2	87.0	86.7
55°	75.5	75.2	74.7	74.9	74.4	74.3	73.9	73.9	73.6	73.4	72.7
57.5°	63.6	63.4	62.5	62.4	62.5	61.7	61.0	60.7	59.8	59.6	59.5
60°	53.2	52.0	51.5	50.8	50.4	50.1	49.3	48.7	47.5	46.7	46.6
62.5°	42.3	41.8	41.1	40.2	40.0	38.9	38.1	36.7	36.0	35.1	34.1
65°	33.5	32.1	31.2	30.7	29.8	28.9	27.9	26.4	25.7	24.5	23.6
67.5°	24.5	23.4	22.1	21.7	20.9	19.8	18.8	17.5	16.9	15.9	15.5
70°	16.8	15.7	14.8	14.2	13.6	12.5	11.5	11.1	10.5	10.3	10.3
72.5°	10.8	9.8	8.8	8.5	8.0	7.4	6.8	6.6	6.8	6.7	6.7
75°	6.0	5.5	4.8	4.4	4.4	4.2	4.1	4.1	4.1	4.1	4.1
77.5°	3.1	2.7	2.5	2.4	2.4	2.4	2.5	2.5	2.5	2.6	2.5
80°	1.5	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.6	1.5
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8
85°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
87.5°	0.1	0.1	0.1	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	0.0	0.0	0.0



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CATALOG NUMBER: LX6C05D010 EX6C059050 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	314.5	314.5	314.5	314.5	314.5	314.5	314.5	314.5
2.5°	312.1	311.9	311.9	311.8	311.8	311.8	311.8	311.9
5°	308.8	308.7	308.7	308.4	308.4	308.4	308.4	308.4
7.5°	304.2	304.0	304.1	303.9	303.9	304.0	303.9	303.8
10°	298.6	298.5	298.6	298.6	298.4	298.3	298.4	298.5
12.5°	292.3	292.2	291.9	292.1	292.1	291.9	291.8	291.6
15°	284.9	284.8	284.7	284.6	284.4	284.6	284.4	284.2
17.5°	276.2	276.2	276.1	276.0	275.9	275.7	275.8	276.1
20°	266.9	266.8	266.6	266.7	266.3	266.1	266.2	266.5
22.5°	256.2	255.9	256.1	255.8	255.8	255.9	255.8	255.6
25°	244.6	244.2	244.4	244.5	244.5	244.4	244.3	244.4
27.5°	231.7	232.0	232.0	231.8	232.1	231.7	231.9	232.0
30°	218.5	218.2	218.1	218.5	219.1	218.6	218.6	218.7
32.5°	204.9	204.4	204.4	204.6	204.5	204.5	205.0	204.4
35°	190.3	190.5	189.6	190.2	190.4	190.2	190.3	190.3
37.5°	175.6	175.4	175.4	175.4	175.7	175.7	175.9	175.8
40°	161.1	160.7	160.6	160.8	160.4	160.7	160.7	160.4
42.5°	145.4	145.6	146.1	145.6	145.7	145.6	145.3	145.2
45°	131.0	131.3	131.1	131.0	131.1	130.6	130.8	131.1
47.5°	115.6	116.3	115.6	116.1	116.0	115.7	115.5	115.1
50°	101.3	101.5	101.4	101.3	101.2	101.1	100.5	100.2
52.5°	86.6	86.6	86.6	86.6	85.5	86.0	85.8	85.2
55°	72.2	72.5	72.1	72.1	71.3	71.3	71.1	71.2
57.5°	58.3	58.0	57.7	57.7	57.0	56.7	56.3	55.9
60°	45.5	45.1	44.7	44.2	43.4	43.4	43.2	42.4
62.5°	33.3	32.8	32.5	32.0	31.4	31.0	30.7	30.9
65°	22.8	22.3	21.9	21.9	21.9	21.7	21.6	21.6
67.5°	15.0	15.3	15.1	15.3	15.3	15.1	15.0	15.2
70°	10.4	10.4	10.3	10.3	10.3	10.3	10.1	10.3
72.5°	6.7	6.7	6.7	6.8	6.7	6.7	6.8	6.8
75°	4.2	4.2	4.2	4.3	4.2	4.2	4.3	4.2
77.5°	2.5	2.6	2.6	2.6	2.6	2.5	2.6	2.6
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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)