

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: P563954

Luminaire Tested: **LX6C05D010 EX6C059030 6LBLWWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P563954
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 EX6C059030 6LBLWWH
Description: 6 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 6LRLWW TRIM WITH H FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

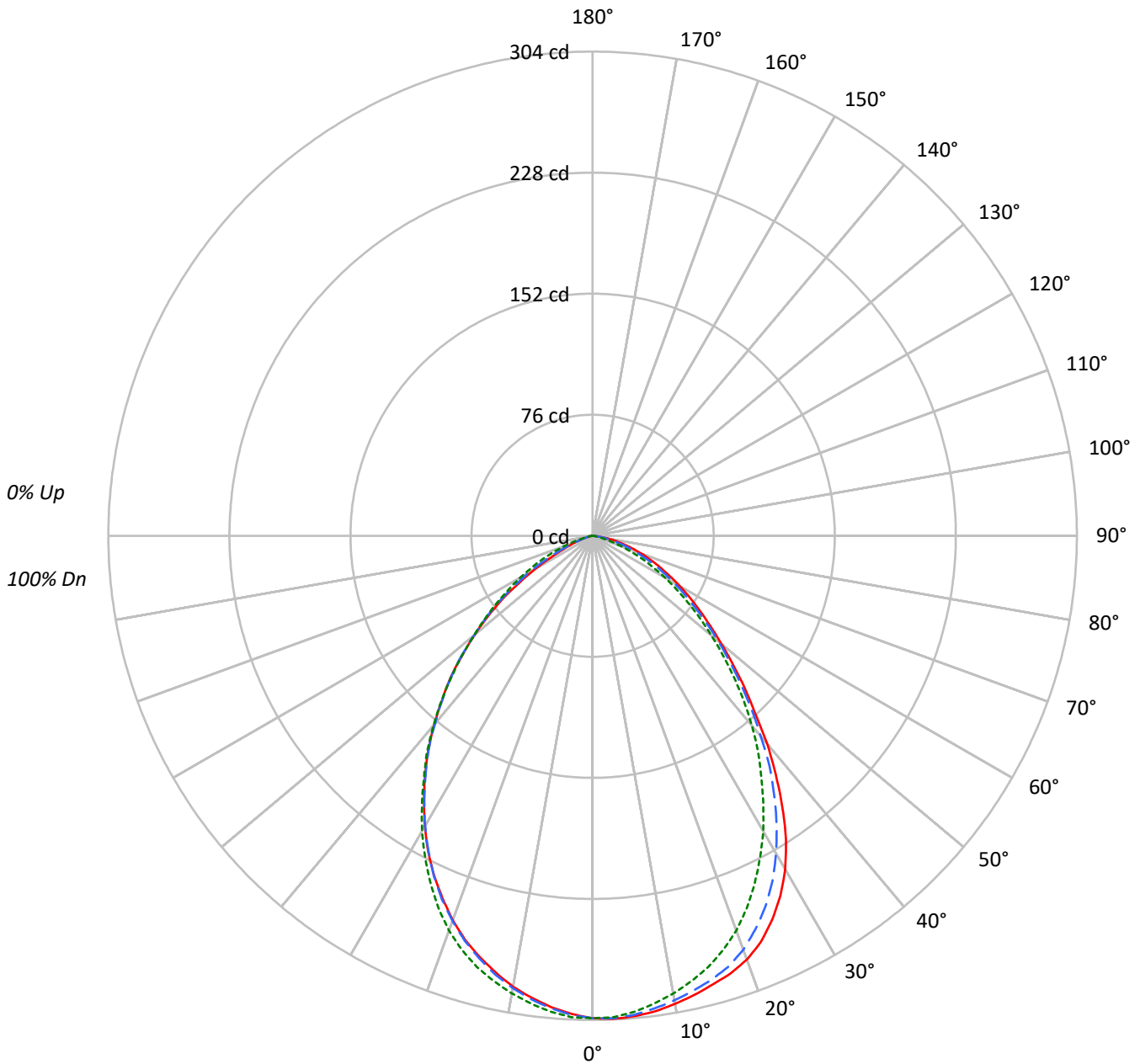
Lumens per Lamp: N/A
Luminaire Lumens: 551.0 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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					20					
RC	80					70					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°	16605	16605	16605
5°	16663	16514	16349
10°	16611	16243	16004
15°	16549	15908	15539
20°	16516	15384	14975
25°	16114	14559	14239
30°	15306	13559	13337
35°	13893	12347	12267
40°	12187	11114	11056
45°	10451	9706	9792
50°	8998	8273	8230
55°	7866	6987	6557
60°	6907	5723	4473
65°	6045	4436	2698
70°	5161	2981	1587
75°	4173	1546	868
80°	2904	600	474
85°	1132	189	252



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.4	5.2
10°-20°	79.3	14.4
20°-30°	112.8	20.5
30°-40°	118.7	21.5
40°-50°	98.9	18.0
50°-60°	66.8	12.1
60°-70°	33.9	6.2
70°-80°	10.9	2.0
80°-90°	1.2	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°	220.4	40.0
0°-40°	339.1	61.6
0°-60°	504.9	91.6
0°-90°	551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	551.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	303	303	303	303	303	
5°	303	302	300	298	297	29
15°	292	288	280	275	274	82
25°	266	257	241	236	235	122
35°	208	199	184	183	183	129
45°	135	131	125	126	126	104
55°	82	78	73	71	69	74
65°	47	42	34	25	21	46
75°	20	15	7	4	4	21
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°	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9
2.5°	303.6	303.6	303.6	303.6	303.6	303.6	303.5	303.5	303.3	303.3	303.2
5°	302.8	302.9	302.9	302.8	302.8	302.6	302.6	302.5	302.2	302.0	301.9
7.5°	301.1	301.1	301.0	300.9	300.8	300.5	300.4	300.1	299.9	299.7	299.3
10°	298.4	298.4	298.3	298.1	298.0	297.8	297.8	297.4	297.0	296.5	296.2
12.5°	295.3	295.4	295.2	295.1	294.8	294.7	294.5	294.0	293.7	293.0	292.5
15°	291.6	291.8	291.8	291.4	291.1	291.0	290.7	290.4	289.7	289.1	288.5
17.5°	288.1	288.3	288.1	287.7	287.4	287.0	286.8	286.2	285.3	284.5	283.6
20°	283.1	283.4	283.0	282.5	281.8	281.7	281.4	280.4	279.1	277.9	276.5
22.5°	276.0	275.8	275.5	275.3	274.3	273.7	273.3	272.0	270.5	268.9	267.3
25°	266.4	266.8	266.2	265.2	264.7	264.1	263.1	261.7	260.4	258.6	256.7
27.5°	255.0	255.0	254.1	253.8	252.7	251.9	251.4	250.0	248.2	246.5	244.4
30°	241.8	241.2	241.2	239.8	238.9	238.6	238.1	235.7	234.2	232.4	230.2
32.5°	225.9	225.8	225.4	224.5	223.3	222.3	222.3	220.6	218.6	216.4	215.0
35°	207.6	207.7	207.5	206.5	206.5	205.3	205.1	203.6	202.0	200.3	198.7
37.5°	188.7	189.1	188.7	188.2	187.9	187.8	186.8	185.8	184.6	183.6	182.4
40°	170.3	169.7	169.9	168.9	169.0	168.8	168.4	167.1	166.4	165.4	164.0
42.5°	150.6	151.2	151.4	150.8	150.6	150.2	150.6	150.1	149.3	148.8	147.5
45°	134.8	134.2	134.5	134.3	134.4	133.6	133.3	133.1	132.8	131.9	131.3
47.5°	119.1	119.2	119.1	118.7	118.5	118.5	118.1	117.5	117.5	116.9	116.5
50°	105.5	105.5	105.7	105.2	105.0	104.6	104.7	104.1	103.7	103.1	102.8
52.5°	93.0	93.1	92.7	92.8	92.6	92.6	92.1	91.7	91.3	90.4	90.2
55°	82.3	82.4	81.9	82.1	81.5	81.2	80.9	80.3	80.3	79.4	78.3
57.5°	72.3	72.2	72.1	71.8	71.4	71.1	70.8	70.1	69.7	69.1	68.2
60°	63.0	62.9	62.7	62.6	62.3	61.6	61.6	61.1	60.1	59.5	58.5
62.5°	54.3	54.3	54.2	53.9	53.6	53.3	53.0	52.6	51.6	50.9	50.1
65°	46.6	46.5	46.2	45.7	45.5	45.5	44.8	44.5	43.7	43.0	42.1
67.5°	39.3	38.9	38.7	38.8	38.2	38.2	37.6	37.1	36.4	35.1	34.4
70°	32.2	32.0	31.8	31.6	31.5	31.1	30.8	30.1	29.4	28.5	27.4
72.5°	25.8	25.8	25.5	25.3	24.9	24.5	24.3	23.8	23.0	22.0	21.2
75°	19.7	19.7	19.7	19.2	19.0	18.8	18.2	17.9	17.0	16.4	15.4
77.5°	14.5	14.3	13.9	13.8	13.6	13.4	13.1	12.6	11.8	11.1	10.5
80°	9.2	9.5	9.2	9.2	8.7	8.5	8.3	7.7	7.4	6.8	6.3
82.5°	5.1	5.2	5.0	4.9	4.6	4.5	4.5	4.1	3.9	3.5	3.2
85°	1.8	1.9	1.8	1.8	1.6	1.7	1.6	1.5	1.3	1.1	1.0
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°	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9
2.5°	303.2	303.0	303.0	302.9	302.8	302.8	302.8	302.7	302.5	302.5	302.4
5°	301.7	301.5	301.2	301.0	300.9	300.8	300.7	300.6	300.2	300.1	299.8
7.5°	298.9	298.7	298.2	298.0	297.7	297.6	297.2	297.0	296.6	296.2	296.0
10°	295.7	295.2	294.8	294.3	294.1	293.8	293.2	292.6	292.3	291.8	291.4
12.5°	292.0	291.4	290.6	290.0	289.8	289.3	288.5	288.0	287.2	286.4	285.7
15°	287.4	286.7	286.0	284.9	284.6	284.0	283.2	282.1	281.1	280.3	279.5
17.5°	282.5	281.3	280.2	279.0	278.1	277.8	276.4	275.0	274.1	272.7	271.8
20°	275.4	273.9	272.1	270.8	270.0	269.1	267.6	266.1	264.9	263.7	262.4
22.5°	265.8	264.3	262.2	260.4	259.7	258.4	257.1	255.7	254.2	252.9	251.3
25°	254.4	252.8	250.7	248.9	247.8	247.2	244.7	243.3	241.8	240.7	239.6
27.5°	242.6	239.9	238.5	235.6	234.7	234.5	232.2	230.6	229.1	227.6	226.1
30°	228.2	226.0	223.9	221.9	220.6	219.9	218.2	216.3	215.3	214.2	212.8
32.5°	213.2	211.3	208.6	206.7	205.8	204.8	203.2	201.9	200.4	199.3	199.0
35°	197.2	195.1	192.8	191.4	191.2	190.0	188.5	187.4	186.2	184.5	184.2
37.5°	180.1	178.9	177.4	175.3	174.4	174.4	172.9	172.1	170.7	170.6	169.7
40°	163.3	162.8	160.5	159.9	159.7	158.2	157.8	156.4	155.4	155.3	154.1
42.5°	146.7	145.4	145.0	144.0	143.1	142.9	141.9	141.3	140.9	140.3	139.7
45°	130.2	129.9	128.9	128.2	127.9	127.5	127.2	126.0	125.7	125.2	124.9
47.5°	116.0	115.2	114.2	113.4	113.3	112.7	112.0	112.0	110.9	110.8	110.6
50°	101.8	101.2	100.7	99.6	99.8	99.0	98.9	98.0	97.4	97.0	97.5
52.5°	89.4	88.2	88.0	87.1	86.8	86.9	85.7	85.4	85.2	84.8	84.6
55°	77.6	77.0	76.2	75.6	75.0	74.5	74.1	74.1	73.0	73.1	72.6
57.5°	67.2	66.7	65.7	64.8	64.6	63.9	63.4	62.9	62.8	62.1	61.6
60°	57.9	57.0	55.7	55.3	54.7	54.2	53.7	53.0	52.7	52.2	51.3
62.5°	49.3	47.8	47.2	46.4	45.7	45.4	44.6	43.9	43.4	42.7	42.0
65°	41.0	39.9	39.0	38.1	38.0	37.2	36.5	35.8	34.8	34.2	32.9
67.5°	33.5	32.5	31.5	30.5	29.8	29.6	28.5	27.8	27.1	25.9	24.7
70°	26.6	25.6	24.7	23.6	23.3	22.5	21.7	21.0	19.8	18.6	17.7
72.5°	20.3	19.1	18.2	17.4	16.9	16.2	15.4	14.6	13.3	12.2	11.4
75°	14.5	13.6	12.7	11.9	11.5	11.1	10.2	9.3	8.5	7.3	6.6
77.5°	9.8	9.0	8.1	7.4	6.9	6.6	6.0	5.3	4.6	4.0	3.5
80°	5.7	5.2	4.6	4.0	3.9	3.6	3.1	2.6	2.2	1.9	1.5
82.5°	2.7	2.4	2.0	1.7	1.5	1.4	1.2	1.0	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°	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9
2.5°	302.1	302.0	301.9	301.8	301.6	301.6	301.3	301.1	301.1	300.9	300.8
5°	299.5	299.2	299.0	298.8	298.6	298.5	298.1	298.0	297.8	297.6	297.6
7.5°	295.7	295.3	294.9	294.7	294.6	294.3	294.1	294.0	293.7	293.4	293.0
10°	290.7	290.4	289.9	289.7	289.5	289.3	288.8	288.5	288.4	288.2	288.0
12.5°	284.9	284.5	284.0	283.6	283.4	283.1	282.6	282.2	282.2	281.8	281.8
15°	278.7	278.1	277.2	276.8	276.6	276.0	275.6	275.2	274.7	274.5	274.5
17.5°	270.7	269.7	268.9	268.9	268.5	267.9	267.3	267.0	266.7	266.3	266.1
20°	261.4	260.7	259.7	259.7	258.8	258.6	258.0	257.9	257.2	257.3	257.0
22.5°	250.1	249.7	249.2	248.8	248.2	247.6	247.3	247.4	247.1	247.0	246.9
25°	238.7	237.5	236.9	236.7	236.5	236.0	235.8	235.7	235.7	235.4	235.5
27.5°	225.5	224.7	223.9	224.2	223.8	223.5	223.3	223.0	223.2	223.1	223.2
30°	212.1	211.1	210.6	210.8	210.7	209.9	210.3	210.2	210.3	210.3	210.5
32.5°	197.9	197.2	197.1	197.2	196.3	196.4	196.0	196.6	196.7	197.3	196.8
35°	183.6	183.2	182.5	182.4	182.5	182.4	182.4	182.8	182.7	183.3	183.1
37.5°	168.8	168.6	167.9	168.1	167.7	168.4	168.6	168.4	169.1	168.9	168.8
40°	154.4	154.1	153.6	154.5	154.0	153.5	154.3	153.6	153.9	154.5	154.5
42.5°	139.7	139.2	139.2	139.2	139.1	139.1	139.4	139.7	139.5	139.6	140.4
45°	124.9	124.8	124.5	124.7	124.6	125.1	125.1	125.3	125.7	126.2	126.0
47.5°	110.7	110.5	110.8	110.6	110.7	110.4	110.6	111.2	111.7	111.0	111.7
50°	97.3	96.9	96.8	97.1	97.0	96.9	97.1	97.1	96.9	96.9	97.6
52.5°	84.6	84.2	83.9	84.4	84.1	84.2	83.8	83.8	84.0	83.8	83.5
55°	72.7	72.4	72.0	72.2	71.7	71.6	71.2	71.2	70.9	70.7	70.1
57.5°	61.3	61.1	60.2	60.1	60.2	59.5	58.8	58.4	57.6	57.4	57.3
60°	51.2	50.1	49.6	49.0	48.6	48.3	47.4	46.9	45.7	45.0	44.9
62.5°	40.7	40.2	39.6	38.7	38.5	37.5	36.7	35.3	34.7	33.8	32.9
65°	32.3	31.0	30.0	29.5	28.7	27.8	26.9	25.5	24.7	23.6	22.7
67.5°	23.6	22.5	21.3	20.9	20.2	19.0	18.1	16.9	16.3	15.3	15.0
70°	16.2	15.2	14.3	13.6	13.1	12.0	11.1	10.7	10.1	9.9	9.9
72.5°	10.4	9.5	8.5	8.1	7.7	7.1	6.5	6.3	6.5	6.4	6.4
75°	5.8	5.3	4.6	4.3	4.3	4.1	4.0	4.0	4.0	4.0	4.0
77.5°	3.0	2.6	2.4	2.3	2.3	2.3	2.4	2.4	2.4	2.5	2.4
80°	1.4	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.5	1.4
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 EX6C059030 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9
2.5°	300.7	300.5	300.5	300.4	300.4	300.4	300.4	300.5
5°	297.4	297.3	297.3	297.1	297.1	297.1	297.1	297.1
7.5°	293.0	292.8	292.9	292.7	292.7	292.8	292.7	292.6
10°	287.6	287.5	287.6	287.6	287.4	287.3	287.4	287.5
12.5°	281.5	281.4	281.2	281.3	281.3	281.2	281.1	280.9
15°	274.4	274.3	274.2	274.1	274.0	274.1	274.0	273.8
17.5°	266.1	266.1	266.0	265.9	265.8	265.6	265.7	266.0
20°	257.1	257.0	256.8	256.9	256.5	256.3	256.4	256.7
22.5°	246.8	246.5	246.7	246.4	246.4	246.5	246.4	246.2
25°	235.6	235.2	235.4	235.5	235.5	235.4	235.3	235.4
27.5°	223.2	223.5	223.5	223.3	223.6	223.2	223.4	223.5
30°	210.5	210.2	210.1	210.5	211.1	210.6	210.6	210.7
32.5°	197.3	196.9	196.9	197.1	197.0	197.0	197.4	196.9
35°	183.3	183.5	182.7	183.2	183.4	183.2	183.3	183.3
37.5°	169.1	168.9	168.9	168.9	169.2	169.2	169.4	169.3
40°	155.2	154.8	154.7	154.9	154.5	154.8	154.8	154.5
42.5°	140.1	140.2	140.7	140.2	140.3	140.2	140.0	139.9
45°	126.2	126.5	126.3	126.2	126.3	125.9	126.0	126.3
47.5°	111.4	112.0	111.4	111.8	111.7	111.5	111.3	110.9
50°	97.5	97.7	97.6	97.5	97.4	97.3	96.8	96.5
52.5°	83.4	83.4	83.4	83.4	82.4	82.9	82.7	82.1
55°	69.5	69.8	69.4	69.4	68.7	68.7	68.5	68.6
57.5°	56.2	55.9	55.6	55.6	54.9	54.6	54.3	53.9
60°	43.8	43.5	43.1	42.6	41.8	41.8	41.6	40.8
62.5°	32.1	31.6	31.3	30.9	30.2	29.8	29.5	29.7
65°	22.0	21.5	21.1	21.1	21.1	20.9	20.8	20.8
67.5°	14.5	14.8	14.6	14.8	14.8	14.6	14.5	14.7
70°	10.0	10.0	9.9	9.9	9.9	9.9	9.8	9.9
72.5°	6.4	6.4	6.4	6.5	6.4	6.4	6.5	6.5
75°	4.1	4.1	4.1	4.2	4.1	4.1	4.2	4.1
77.5°	2.4	2.5	2.5	2.5	2.5	2.4	2.5	2.5
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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)