

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P252451

Luminaire Tested: **LD6B10D010 EU6B10209727 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B10D010 EU6B10209727 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 644.0 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

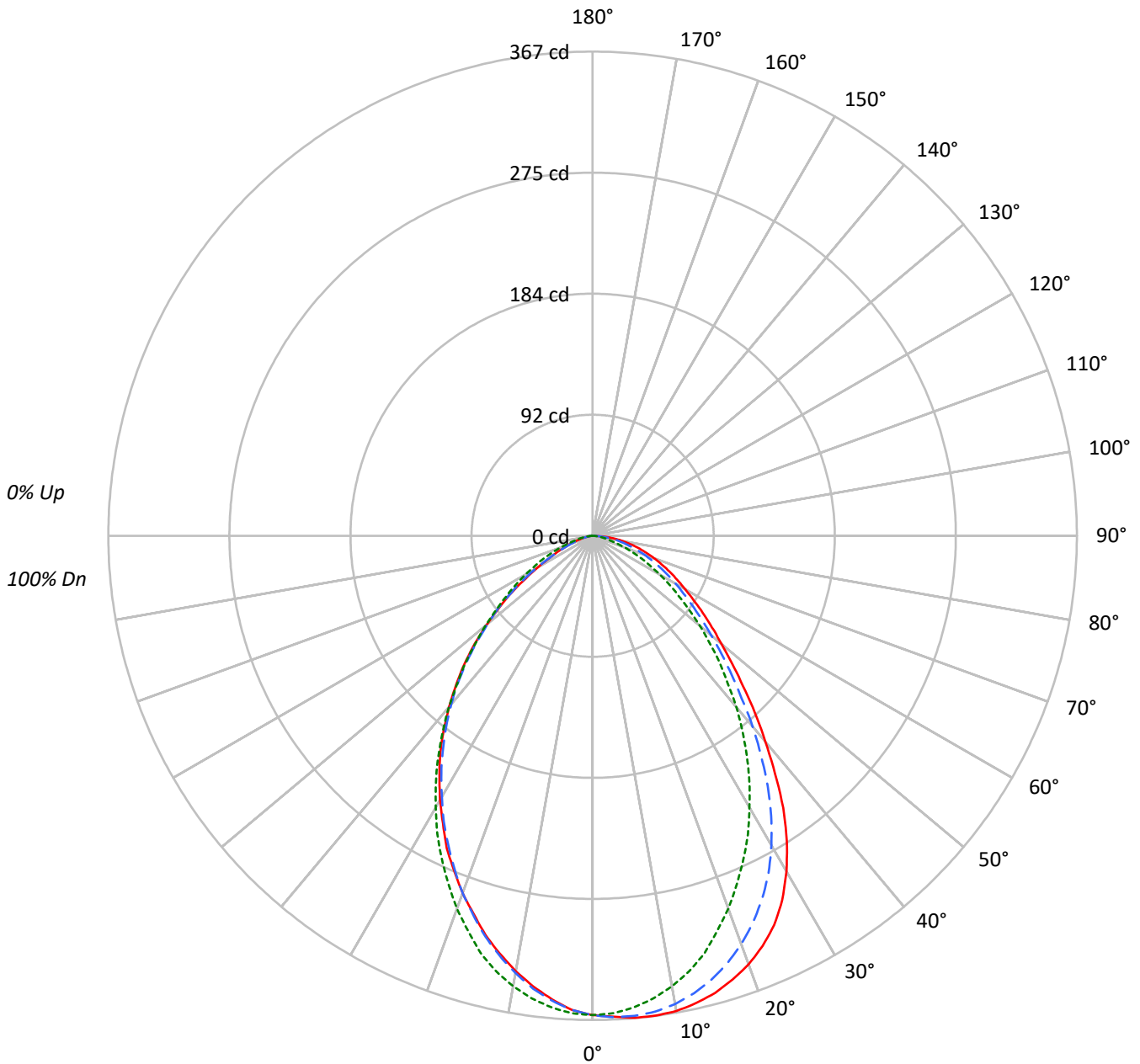
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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				100
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88				88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67				67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43				43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35				35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	23702	23702	23702
5°	24022	23498	23098
10°	24233	22968	22199
15°	24234	22120	21168
20°	24001	20877	20002
25°	23431	19472	18817
30°	22125	17907	17410
35°	20054	16239	16032
40°	17323	14436	14393
45°	14855	12566	12668
50°	12910	10759	10606
55°	11590	9065	8497
60°	10530	7633	6250
65°	9895	6314	4600
70°	9442	4902	3376
75°	9024	3554	2294
80°	8529	2480	1503
85°	7560	1497	749



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.0	5.3
10°-20°	93.1	14.5
20°-30°	129.2	20.1
30°-40°	133.8	20.8
40°-50°	110.0	17.1
50°-60°	75.6	11.7
60°-70°	43.5	6.7
70°-80°	20.0	3.1
80°-90°	4.9	0.8
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°	256.3	39.8
0°-40°	390.1	60.6
0°-60°	575.7	89.4
0°-90°	644.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	644.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	363	363	363	363	363	
5°	367	365	359	354	353	35
15°	359	348	328	314	313	101
25°	326	304	270	259	261	149
35°	252	231	204	198	201	156
45°	161	149	136	135	137	125
55°	102	92	80	75	75	92
65°	64	56	41	29	30	64
75°	36	28	14	9	9	38
85°	10	7	2	1	1	11
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°	363.3	363.3	363.3	363.3	363.3	363.3	363.3	363.3	363.3	363.3	363.3
2.5°	364.8	367.9	365.8	365.3	366.3	366.3	366.3	364.8	365.8	364.3	365.3
5°	366.8	369.4	367.3	366.3	367.3	367.9	366.3	365.3	366.8	364.8	365.3
7.5°	366.8	369.4	367.3	366.8	367.3	367.3	366.8	364.8	365.8	363.8	363.8
10°	365.8	367.9	365.8	364.8	365.3	364.8	364.8	362.3	362.8	360.3	360.3
12.5°	362.8	365.3	362.8	361.8	361.8	361.8	360.3	358.3	358.8	355.7	355.2
15°	358.8	360.8	358.3	357.3	357.3	356.8	355.7	352.7	352.7	349.7	348.2
17.5°	352.7	354.7	352.7	351.2	350.7	349.7	348.7	345.7	344.6	341.1	339.6
20°	345.7	347.2	345.1	343.6	342.6	341.6	339.6	336.6	335.6	332.0	329.5
22.5°	336.6	338.6	335.6	334.0	333.0	331.5	329.5	326.5	325.0	320.4	317.4
25°	325.5	326.5	324.0	322.4	320.4	319.4	317.9	313.9	312.3	307.3	303.8
27.5°	311.3	312.3	309.3	308.3	305.8	304.8	302.8	299.2	297.2	292.2	288.6
30°	293.7	294.7	292.7	291.2	289.1	287.1	285.6	282.1	279.0	274.0	271.0
32.5°	274.0	275.5	273.5	271.5	267.9	268.4	265.9	262.4	259.9	255.3	251.8
35°	251.8	252.8	250.3	249.8	247.8	245.7	243.2	240.7	239.2	234.1	231.1
37.5°	227.1	229.6	227.1	225.1	224.0	222.5	221.0	217.5	216.5	213.4	209.4
40°	203.4	204.9	203.4	201.3	199.8	199.8	197.8	195.8	193.3	190.2	188.7
42.5°	182.2	181.2	180.6	179.6	177.6	177.1	176.6	174.1	172.6	169.5	167.0
45°	161.0	161.5	160.5	160.0	158.4	157.4	156.4	154.4	153.9	150.9	148.9
47.5°	143.3	142.8	141.8	141.8	140.8	139.8	138.8	137.3	136.7	134.2	132.2
50°	127.2	127.7	127.2	126.7	125.1	124.6	123.6	122.6	121.6	119.1	117.1
52.5°	114.0	113.5	113.0	113.0	111.5	111.0	110.0	109.0	108.0	105.5	103.9
55°	101.9	101.9	101.4	100.9	99.4	98.9	98.4	97.4	95.9	93.9	92.3
57.5°	90.8	90.8	90.3	89.8	88.8	88.8	87.8	86.8	85.8	83.8	81.7
60°	80.7	81.2	80.7	80.2	79.2	79.2	78.7	77.2	76.7	74.2	72.7
62.5°	72.2	72.2	72.2	71.7	71.1	70.1	70.1	68.6	67.6	66.1	64.1
65°	64.1	64.1	64.1	63.6	62.6	62.1	61.6	60.6	59.5	58.0	56.0
67.5°	56.5	56.5	56.5	56.0	55.0	54.5	54.0	53.5	52.0	50.5	48.4
70°	49.5	49.5	48.9	48.4	47.9	47.4	46.9	45.9	44.9	42.9	41.4
72.5°	42.4	42.4	42.4	41.4	40.9	40.9	39.9	39.4	38.3	36.3	34.8
75°	35.8	35.3	35.3	34.8	34.3	33.8	33.3	32.8	31.3	30.3	28.3
77.5°	29.3	29.3	28.8	28.3	28.3	27.8	27.2	26.2	25.7	24.2	22.7
80°	22.7	22.7	22.7	22.7	22.2	21.7	21.7	20.7	20.2	18.7	17.7
82.5°	17.2	16.7	16.7	16.7	16.1	15.6	15.6	15.1	14.6	13.6	12.6
85°	10.1	9.6	9.6	9.6	9.1	9.1	8.6	8.6	8.1	7.1	7.1
87.5°	3.0	3.0	3.5	3.5	3.0	3.0	3.0	3.0	3.0	2.5	2.5
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°	363.3	363.3	363.3	363.3	363.3	363.3	363.3	363.3	363.3	363.3	363.3
2.5°	364.3	365.8	363.8	363.3	365.3	364.3	363.8	362.8	363.3	362.3	360.8
5°	363.8	365.8	363.3	361.8	364.3	362.8	361.8	360.8	360.8	358.8	357.8
7.5°	362.3	363.3	360.8	359.3	360.8	359.3	358.3	356.8	356.2	353.7	352.2
10°	358.3	359.3	356.2	354.2	355.7	353.7	352.2	350.7	349.7	346.7	344.6
12.5°	352.7	353.2	349.7	347.2	348.2	346.7	344.1	342.1	341.1	338.1	335.6
15°	345.1	345.7	341.6	338.1	339.1	337.1	334.0	332.0	330.5	327.5	324.0
17.5°	336.1	335.6	331.0	327.5	328.0	325.5	322.4	319.4	317.4	313.9	311.3
20°	326.0	324.5	319.4	315.4	315.9	312.9	309.3	306.3	303.8	300.7	297.2
22.5°	313.4	311.3	306.8	301.8	302.3	299.7	294.7	292.2	289.6	285.6	282.6
25°	299.7	296.7	292.2	287.1	287.1	284.1	280.1	277.0	274.5	270.5	266.9
27.5°	283.6	282.1	276.0	272.0	271.5	268.4	264.9	261.4	258.4	254.8	251.3
30°	265.9	263.4	258.9	254.3	253.3	250.8	247.3	243.2	241.2	237.7	234.6
32.5°	247.3	244.7	239.7	235.1	234.6	232.6	229.6	225.6	223.5	221.0	219.0
35°	226.1	225.1	220.0	216.5	216.5	214.5	211.4	207.9	206.4	203.9	201.3
37.5°	205.9	204.4	199.8	196.8	196.8	194.3	191.2	189.7	188.2	186.2	184.7
40°	184.7	183.7	180.1	177.1	177.6	175.6	173.6	171.6	170.6	169.5	168.0
42.5°	165.0	164.0	161.5	158.9	158.9	157.4	155.4	153.9	152.9	151.4	150.9
45°	147.3	145.8	143.8	141.3	141.3	139.8	138.8	137.8	137.3	136.2	134.7
47.5°	130.2	129.2	127.2	124.6	124.6	124.6	122.6	121.1	121.1	120.1	119.6
50°	115.6	114.0	112.5	110.5	110.5	109.5	108.0	106.5	106.5	106.0	105.0
52.5°	101.9	100.9	98.9	96.9	96.9	95.9	94.4	93.9	93.4	91.8	91.3
55°	90.3	89.3	87.8	85.3	84.8	84.3	82.8	81.7	81.2	79.7	79.7
57.5°	79.7	78.7	76.2	74.7	74.2	73.2	71.7	70.6	70.1	69.1	68.1
60°	70.6	69.1	67.1	65.1	64.6	63.6	62.1	61.1	60.6	58.5	57.5
62.5°	62.1	60.6	58.5	56.5	56.0	55.0	53.0	52.0	51.0	48.9	47.9
65°	54.0	52.5	50.5	48.4	47.4	46.9	44.9	43.4	42.4	40.9	38.9
67.5°	46.4	44.9	42.9	40.4	40.4	38.9	37.3	35.8	34.3	32.8	31.3
70°	39.4	37.8	35.8	33.8	33.3	32.3	30.8	28.8	27.8	25.7	24.2
72.5°	32.8	31.3	29.3	27.2	26.7	25.7	24.2	22.2	20.7	19.2	17.7
75°	26.7	25.2	23.2	21.7	21.2	20.2	18.7	16.7	15.1	14.1	12.6
77.5°	21.2	19.7	18.2	16.7	16.1	15.1	13.6	12.6	11.1	10.1	8.6
80°	16.1	15.1	13.6	12.6	12.1	11.1	10.1	8.6	7.6	6.6	6.1
82.5°	11.6	10.6	9.6	8.1	8.1	7.1	6.6	5.6	4.5	4.0	3.5
85°	6.6	5.6	5.0	4.5	4.0	4.0	3.5	3.0	2.5	2.0	2.0
87.5°	2.0	2.0	1.5	1.5	1.5	1.5	1.0	1.0	1.0	1.0	1.0
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°	363.3	363.3	363.3	363.3	363.3	363.3	363.3	363.3	363.3	363.3	363.3
2.5°	360.8	361.3	360.3	361.3	360.3	360.8	359.8	360.8	359.8	360.8	358.8
5°	357.3	357.3	355.7	356.8	355.7	356.2	354.2	354.7	353.7	354.7	352.7
7.5°	351.2	351.7	349.2	350.2	348.7	348.7	347.2	347.7	346.2	346.7	345.1
10°	344.1	343.6	341.1	342.1	340.1	340.1	338.6	338.6	336.6	337.1	335.1
12.5°	334.0	333.5	330.5	331.5	329.5	329.5	328.0	328.0	326.0	327.0	325.0
15°	322.4	321.9	318.9	319.4	317.4	317.4	315.4	315.9	314.4	315.4	313.4
17.5°	309.3	308.8	305.8	306.3	303.8	304.3	302.8	302.3	301.2	301.8	300.2
20°	295.7	294.7	291.7	292.2	291.2	289.6	288.6	289.1	288.1	289.1	287.6
22.5°	281.6	279.5	277.0	277.0	276.0	276.0	274.5	275.5	273.5	275.0	274.0
25°	265.4	263.9	261.9	262.9	260.9	260.9	259.4	259.9	258.9	259.9	258.9
27.5°	249.8	248.8	245.7	246.7	245.2	245.7	244.2	244.7	244.2	245.2	244.2
30°	233.1	232.6	230.6	230.6	230.1	229.6	229.1	229.1	228.6	230.1	229.1
32.5°	217.5	216.0	214.0	215.5	212.9	214.5	213.4	214.5	213.4	214.5	214.0
35°	201.3	200.8	198.3	198.8	198.3	198.3	197.8	197.8	197.8	199.3	199.3
37.5°	184.2	183.7	182.2	182.7	181.7	181.2	181.2	182.2	182.2	183.2	183.2
40°	167.5	168.0	166.5	166.5	166.0	166.0	166.0	167.0	166.5	167.5	167.0
42.5°	150.9	150.9	149.4	149.9	149.4	149.9	149.9	150.9	150.9	151.4	150.9
45°	135.2	135.2	134.7	135.2	134.2	134.7	134.2	135.2	134.7	135.2	135.2
47.5°	119.6	119.6	119.6	119.1	119.1	119.1	119.1	119.1	118.6	119.6	119.1
50°	105.0	105.5	105.0	105.0	104.5	105.0	104.5	104.5	103.4	103.9	103.9
52.5°	91.8	91.8	90.8	90.8	90.8	90.3	90.3	90.3	89.8	89.8	88.8
55°	79.2	79.2	78.2	78.2	77.7	77.2	76.7	76.7	75.2	75.2	73.7
57.5°	67.6	67.1	65.6	65.6	64.6	64.1	63.6	63.1	62.1	61.1	60.6
60°	57.0	56.0	55.0	54.5	53.5	52.5	51.5	50.5	49.5	48.9	48.4
62.5°	46.9	45.4	44.4	43.9	42.9	41.4	40.4	39.4	38.3	37.8	36.8
65°	37.8	36.3	34.8	34.3	33.3	32.3	30.8	29.8	28.8	28.3	28.3
67.5°	29.8	28.3	26.2	26.2	25.2	24.2	23.2	22.2	21.7	22.2	22.2
70°	22.2	21.2	19.7	19.2	18.2	17.2	16.7	16.7	16.7	17.2	16.7
72.5°	16.7	15.1	14.1	13.6	13.1	12.6	12.6	12.6	12.1	12.6	12.6
75°	11.6	10.6	9.6	9.6	9.1	9.1	9.1	9.1	9.1	9.1	9.1
77.5°	8.1	7.1	6.6	6.6	6.6	6.1	6.1	6.1	6.1	6.1	6.1
80°	5.0	5.0	4.5	4.5	4.0	4.0	4.0	4.0	4.0	4.0	4.0
82.5°	3.0	3.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
85°	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.0	1.0	1.0	1.0
87.5°	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0
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°	363.3	363.3	363.3	363.3	363.3	363.3	363.3	363.3
2.5°	358.8	360.3	358.3	359.8	359.3	358.8	357.8	359.8
5°	352.7	353.2	351.2	353.2	352.7	351.7	350.7	352.7
7.5°	344.1	345.7	343.1	345.1	344.6	343.6	342.6	344.6
10°	334.5	336.1	334.0	335.6	335.6	334.5	333.0	335.1
12.5°	324.0	325.0	322.9	325.0	324.5	323.4	322.9	324.5
15°	312.3	313.9	311.8	313.4	312.9	312.3	311.8	313.4
17.5°	299.7	301.2	299.7	301.2	301.2	299.7	299.2	300.2
20°	287.1	288.1	286.6	288.1	287.6	287.6	286.6	288.1
22.5°	273.0	274.5	273.5	274.5	274.0	274.0	273.5	274.5
25°	258.9	260.4	258.9	260.4	259.9	259.9	258.9	261.4
27.5°	244.7	245.7	244.2	246.2	245.7	244.7	245.2	245.7
30°	229.6	230.6	229.6	231.1	231.1	231.1	230.1	231.1
32.5°	214.5	216.0	214.5	216.0	215.5	215.5	215.0	216.0
35°	199.3	199.8	198.8	200.3	200.3	200.8	199.8	201.3
37.5°	183.7	184.2	183.7	184.2	185.2	183.7	184.7	185.2
40°	167.5	168.5	168.0	168.5	168.5	169.0	168.5	169.0
42.5°	151.4	152.4	151.4	152.9	152.4	152.4	152.9	152.9
45°	134.7	136.2	135.2	136.2	136.7	136.2	136.2	137.3
47.5°	119.1	120.1	119.6	120.1	120.1	120.1	120.1	121.1
50°	103.4	103.9	103.9	104.5	104.5	105.0	103.9	104.5
52.5°	87.8	88.8	88.8	88.8	88.3	88.8	88.8	88.8
55°	73.7	74.2	73.2	74.2	74.2	73.7	73.7	74.7
57.5°	60.0	60.0	60.0	60.0	60.0	59.5	60.0	60.0
60°	47.4	47.9	47.4	47.4	47.4	47.4	46.9	47.9
62.5°	36.8	36.8	36.3	36.8	36.8	36.8	37.3	37.3
65°	28.8	29.3	28.8	29.3	29.3	29.3	29.3	29.8
67.5°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7
70°	17.2	17.2	17.2	17.7	17.2	17.2	17.2	17.7
72.5°	12.6	12.6	12.6	12.6	12.6	12.6	13.1	13.1
75°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
77.5°	6.1	6.1	6.1	6.6	6.1	6.6	6.1	6.1
80°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5
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)