

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: P252659

Luminaire Tested: **LD6B10D010 EU6B10209727 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B10D010 EU6B10209727 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE 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: 709.0 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

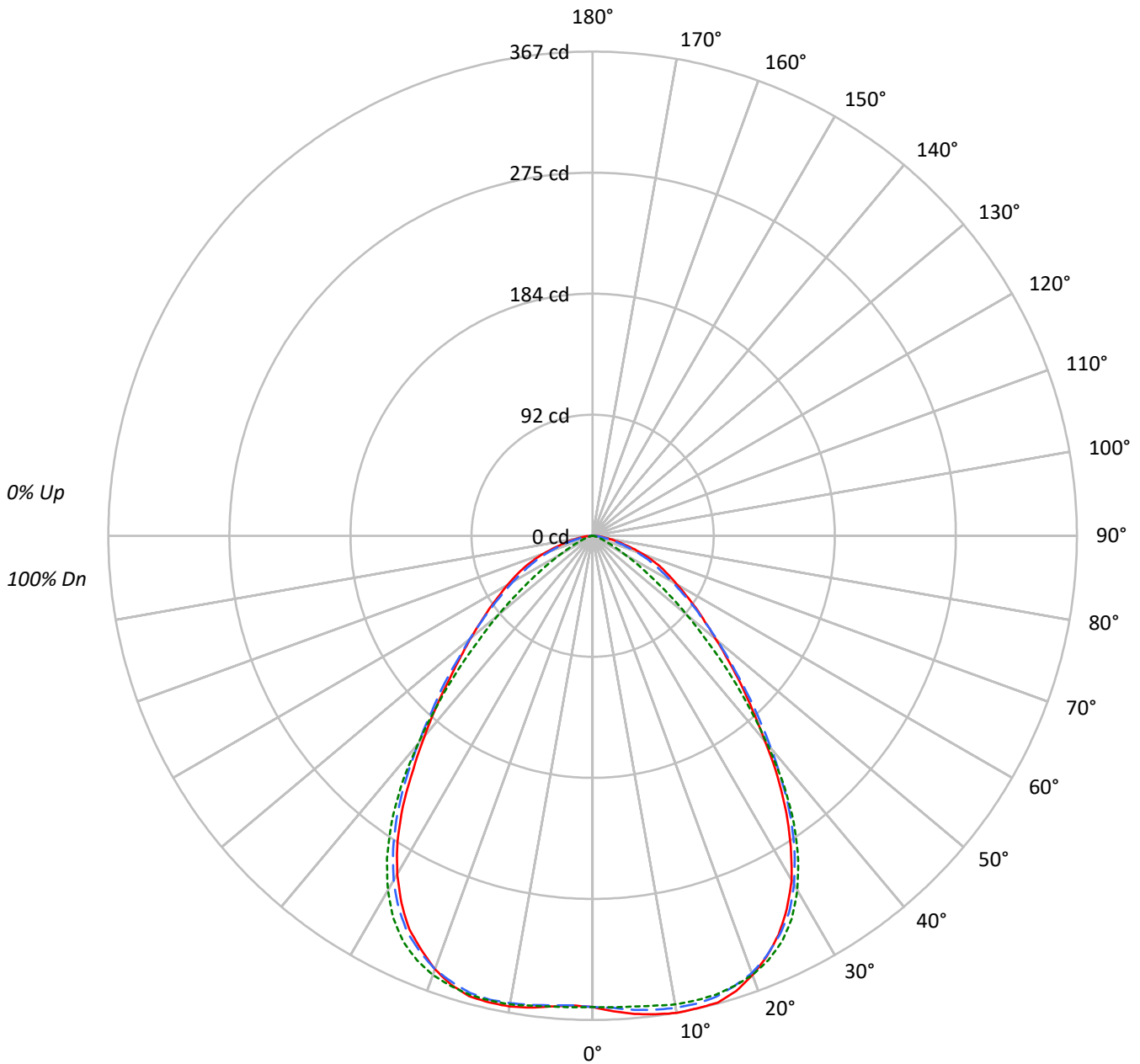
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	98	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68																			
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61																			
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54																			
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48																			
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44																			
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40																			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	23304	23304	23304
5°	23825	23458	23458
10°	24333	23895	24001
15°	24741	24329	24403
20°	24591	24591	24272
25°	24007	24439	23676
30°	22721	23368	22306
35°	20365	21169	19959
40°	17297	17510	16871
45°	14633	13378	14126
50°	12362	9439	12200
55°	10863	6097	10749
60°	9630	3627	9695
65°	8892	2177	8892
70°	7706	1259	7516
75°	6125	756	5722
80°	4546	564	4358
85°	4192	374	3818



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.4	4.9
10°-20°	101.8	14.4
20°-30°	153.1	21.6
30°-40°	160.9	22.7
40°-50°	120.2	17.0
50°-60°	74.9	10.6
60°-70°	42.6	6.0
70°-80°	17.5	2.5
80°-90°	3.6	0.5
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°	289.2	40.8
0°-40°	450.2	63.5
0°-60°	645.3	91.0
0°-90°	709.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	709.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	357	357	357	357	357	
5°	364	361	358	357	358	35
15°	366	362	360	359	361	103
25°	334	334	340	332	329	153
35°	256	262	266	258	251	159
45°	159	162	145	159	153	123
55°	96	94	54	92	94	86
65°	58	52	14	52	58	57
75°	24	19	3	19	23	26
85°	6	4	0	3	5	6
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°	357.2	357.2	357.2	357.2	357.2	357.2	357.2	357.2	357.2	357.2	357.2
2.5°	360.7	360.2	360.7	359.7	359.2	359.2	359.7	358.7	358.2	358.7	358.2
5°	363.8	362.8	363.3	362.8	361.8	361.8	362.3	360.7	360.7	361.3	360.7
7.5°	365.8	365.8	365.8	364.8	364.3	363.8	364.8	363.3	362.8	362.8	362.3
10°	367.3	366.8	367.3	366.3	365.3	364.8	365.8	364.8	363.8	364.8	363.3
12.5°	366.8	366.8	366.8	366.3	365.3	364.8	365.8	364.3	363.8	364.3	363.3
15°	366.3	364.8	365.3	364.8	363.3	363.3	363.8	362.3	361.3	362.8	361.8
17.5°	361.8	360.7	361.3	360.2	359.2	358.7	359.2	358.7	357.7	358.7	357.7
20°	354.2	354.2	354.7	353.7	352.7	352.2	353.2	352.2	351.1	352.7	352.7
22.5°	345.1	345.1	345.1	344.6	344.1	344.1	344.1	343.6	343.1	344.1	344.6
25°	333.5	333.0	333.5	334.0	333.5	333.0	333.5	333.5	332.5	334.5	334.5
27.5°	318.8	318.8	319.8	319.3	319.3	318.8	319.8	319.8	319.3	320.8	322.3
30°	301.6	300.6	301.6	301.6	302.1	302.1	302.6	302.6	302.6	304.2	305.2
32.5°	279.4	279.9	281.4	280.9	280.4	281.9	281.9	282.9	283.4	284.5	285.0
35°	255.7	256.2	256.2	256.7	257.7	256.7	259.2	258.7	259.2	261.2	262.2
37.5°	230.4	228.9	231.4	230.4	230.9	230.9	231.9	232.4	233.9	236.5	236.5
40°	203.1	203.6	204.6	205.1	205.6	205.6	205.6	207.2	207.7	210.7	210.2
42.5°	179.4	179.4	180.4	180.9	180.9	180.9	180.9	182.4	183.4	184.4	185.4
45°	158.6	157.1	158.1	158.1	159.2	158.6	159.7	160.7	161.2	162.7	162.2
47.5°	138.9	138.4	138.9	139.4	138.9	139.4	140.0	140.5	141.0	141.0	141.0
50°	121.8	121.8	122.3	122.8	122.8	122.8	122.8	123.3	123.3	124.3	123.3
52.5°	107.6	108.1	108.1	107.6	108.1	108.1	108.6	108.6	108.1	108.1	106.6
55°	95.5	95.0	95.5	95.0	95.5	95.5	95.0	95.0	94.5	94.0	93.5
57.5°	83.9	83.9	83.9	83.9	83.4	83.9	83.4	82.9	82.9	81.8	80.3
60°	73.8	73.8	73.8	73.8	73.8	73.3	73.8	73.3	72.3	71.2	69.2
62.5°	65.2	64.7	65.2	64.7	64.7	64.2	64.2	63.7	62.7	61.6	59.6
65°	57.6	58.1	57.6	57.6	57.1	56.6	56.6	56.1	54.6	53.6	51.5
67.5°	49.5	49.0	49.0	49.0	48.5	48.5	48.5	47.5	46.5	45.0	42.9
70°	40.4	40.4	40.4	39.9	39.9	39.4	39.4	38.9	37.9	36.9	34.4
72.5°	31.8	31.8	31.8	30.8	31.3	30.8	30.8	29.8	29.3	27.8	26.3
75°	24.3	24.3	23.7	23.7	23.2	22.7	22.7	22.2	21.7	20.7	19.2
77.5°	17.7	17.7	17.7	17.2	16.7	16.2	16.2	15.7	15.2	14.7	13.6
80°	12.1	12.1	12.1	12.1	11.6	11.1	11.1	10.6	10.6	10.1	9.1
82.5°	8.1	8.1	8.1	8.1	7.6	7.6	7.6	7.1	6.6	6.6	5.6
85°	5.6	5.6	5.1	5.1	5.1	5.1	4.5	4.5	4.0	3.5	3.5
87.5°	3.0	3.0	3.0	3.0	2.5	2.5	2.5	2.5	2.0	2.0	1.5
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°	357.2	357.2	357.2	357.2	357.2	357.2	357.2	357.2	357.2	357.2	357.2
2.5°	359.7	359.7	359.2	357.7	358.2	357.7	358.2	357.7	356.2	357.7	356.2
5°	361.8	362.3	361.3	359.2	359.7	359.2	359.2	358.7	357.2	358.2	357.2
7.5°	363.8	363.3	362.8	360.7	361.3	360.7	360.7	359.7	358.2	359.2	357.7
10°	364.8	364.8	363.8	361.8	361.8	361.3	361.8	361.3	359.2	360.7	359.7
12.5°	364.8	364.3	364.3	361.8	362.3	361.8	362.3	361.3	359.7	360.7	360.2
15°	363.3	363.3	362.8	360.2	360.7	360.7	361.3	360.2	358.7	360.2	359.2
17.5°	360.2	360.2	359.7	357.7	358.7	358.7	359.2	358.2	356.7	357.7	357.7
20°	354.2	354.7	354.7	353.2	354.2	354.2	354.7	354.2	353.7	354.2	353.2
22.5°	347.1	348.1	348.1	346.6	347.6	347.6	349.1	348.6	347.6	348.1	347.6
25°	336.5	337.5	338.5	337.5	338.5	338.5	340.0	339.5	338.5	339.5	338.0
27.5°	324.4	324.9	325.9	324.9	326.4	325.9	327.4	326.9	325.4	326.9	326.4
30°	307.2	309.2	310.7	309.2	310.7	310.7	311.7	311.2	310.7	310.2	310.2
32.5°	288.0	290.0	290.0	289.5	290.5	290.5	291.0	290.0	289.5	290.0	290.5
35°	264.2	265.3	266.3	265.8	266.3	266.8	266.3	266.8	265.3	265.8	265.8
37.5°	238.5	239.5	239.5	238.0	239.0	239.0	238.0	238.0	237.0	238.0	236.0
40°	211.2	210.2	210.7	209.7	208.7	208.7	208.2	206.1	205.1	205.6	206.1
42.5°	184.4	184.4	182.9	180.4	177.8	177.8	176.3	175.3	173.3	174.3	173.8
45°	161.7	159.2	157.1	153.1	151.6	150.6	148.0	145.5	144.5	145.0	144.5
47.5°	140.0	137.9	132.9	127.3	125.8	124.3	121.3	118.2	117.2	116.2	116.2
50°	121.8	118.2	112.7	106.6	104.1	101.6	97.5	94.5	92.5	93.0	93.0
52.5°	105.1	101.0	94.5	86.9	83.9	80.8	77.3	73.8	72.3	71.7	71.7
55°	90.4	85.9	79.3	70.7	68.2	64.7	60.1	56.1	54.1	53.6	54.6
57.5°	77.3	73.3	65.7	57.1	54.1	50.5	46.0	42.4	39.9	39.4	39.9
60°	66.7	61.1	54.6	46.5	42.4	39.4	34.4	31.3	28.8	27.8	28.3
62.5°	56.1	51.0	44.5	36.4	33.3	30.3	25.8	22.2	20.2	19.7	20.2
65°	48.0	42.9	36.9	29.8	26.8	23.7	19.7	16.2	14.7	14.1	14.7
67.5°	39.9	35.4	30.3	23.7	21.2	18.7	14.7	12.1	10.1	9.6	10.1
70°	32.3	28.3	23.2	18.7	16.2	14.1	11.1	8.6	7.1	6.6	7.1
72.5°	24.3	21.2	17.7	13.6	12.1	10.6	8.1	6.1	5.1	4.5	5.1
75°	17.7	15.2	12.6	9.6	8.6	7.6	5.6	4.0	3.5	3.0	3.5
77.5°	12.1	10.6	8.6	6.6	5.6	5.1	3.5	3.0	2.5	2.0	2.0
80°	8.1	7.1	5.6	4.5	4.0	3.5	2.5	2.0	1.5	1.5	1.5
82.5°	5.1	4.0	3.5	2.5	2.0	2.0	1.5	1.0	1.0	1.0	1.0
85°	3.0	2.5	2.0	1.5	1.0	1.0	0.5	0.5	0.5	0.5	0.5
87.5°	1.5	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.5
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	357.2	357.2	357.2	357.2	357.2	357.2	357.2	357.2	357.2	357.2	357.2
2.5°	357.2	356.2	356.2	356.7	357.2	357.7	356.7	356.2	356.2	357.7	356.7
5°	357.2	356.7	356.7	356.7	357.7	358.2	357.2	356.7	357.2	358.7	358.2
7.5°	358.7	357.7	358.2	358.2	358.7	359.7	358.7	358.2	358.7	360.2	359.2
10°	359.7	358.7	359.2	358.7	360.2	360.7	359.7	359.2	359.7	361.8	361.3
12.5°	360.2	359.7	359.7	359.2	360.7	361.3	360.2	359.7	360.2	361.8	361.3
15°	359.2	358.7	358.7	358.7	359.7	360.7	359.2	358.7	358.7	360.2	359.7
17.5°	357.2	356.2	356.2	356.2	356.7	357.2	355.7	355.2	354.7	356.2	355.7
20°	353.7	352.7	351.7	351.7	352.2	352.2	351.1	349.6	349.6	350.1	349.1
22.5°	347.1	346.6	345.6	345.1	346.1	345.6	343.6	342.1	341.5	342.1	341.0
25°	338.0	337.0	336.5	336.0	336.5	336.0	334.0	331.9	331.9	331.9	330.4
27.5°	325.4	324.4	323.9	323.9	324.4	323.4	321.3	319.3	318.3	318.3	316.8
30°	309.2	309.2	308.7	308.2	307.7	307.7	304.7	302.6	301.6	302.1	301.1
32.5°	289.5	289.0	288.5	287.0	287.5	287.0	284.5	282.9	281.4	280.4	279.9
35°	264.2	264.2	263.7	263.7	263.7	263.2	260.7	259.2	258.2	257.7	256.2
37.5°	236.5	236.0	235.4	235.4	235.4	235.4	233.9	232.4	232.4	231.9	230.9
40°	205.1	205.6	206.1	205.6	207.2	208.7	206.6	205.6	205.1	206.6	204.6
42.5°	174.8	174.3	176.8	177.3	177.3	179.9	180.4	180.9	180.4	181.4	181.4
45°	145.5	145.0	147.5	148.5	151.1	154.1	155.6	158.1	159.2	160.2	159.2
47.5°	117.7	119.7	121.8	124.3	126.3	131.4	134.4	136.9	137.9	139.4	139.4
50°	94.5	96.5	100.0	102.1	104.6	110.6	115.7	119.2	121.3	122.8	122.3
52.5°	72.8	76.3	80.8	82.9	86.4	93.5	99.0	103.1	105.6	107.1	107.6
55°	56.1	59.1	63.7	66.7	70.2	77.8	84.9	89.4	92.0	94.0	95.0
57.5°	41.4	45.0	50.0	52.5	56.6	65.2	71.2	76.8	79.8	82.4	82.9
60°	30.3	33.9	38.4	41.4	45.5	54.1	61.1	66.2	69.7	71.7	72.8
62.5°	21.7	25.3	29.8	32.8	36.4	44.0	51.0	56.1	59.6	62.1	63.7
65°	15.7	19.2	23.7	26.3	29.3	36.4	42.9	48.0	51.5	54.6	55.6
67.5°	11.6	14.1	18.2	20.7	23.7	29.3	34.9	39.4	42.9	45.5	46.5
70°	8.6	10.6	14.1	15.7	17.7	22.7	27.3	31.3	34.4	36.4	37.4
72.5°	6.1	7.6	10.1	11.6	13.1	17.2	20.7	23.7	25.8	27.8	28.8
75°	4.0	5.1	7.1	8.1	9.1	12.1	14.7	17.2	18.7	20.2	20.7
77.5°	2.5	3.5	5.1	5.6	6.6	8.1	10.1	11.6	12.6	13.6	14.7
80°	1.5	2.0	3.0	3.5	4.0	5.6	6.6	7.6	8.6	9.6	10.1
82.5°	1.0	1.5	2.0	2.0	2.5	3.0	4.0	5.1	5.6	6.1	6.6
85°	0.5	0.5	1.0	1.0	1.5	1.5	2.0	2.5	3.0	3.5	4.0
87.5°	0.5	0.5	0.5	0.5	1.0	1.0	1.5	1.5	1.5	2.0	2.0
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°	357.2	357.2	357.2	357.2	357.2	357.2	357.2	357.2
2.5°	355.7	357.2	355.7	356.7	356.2	356.2	355.7	356.2
5°	357.2	359.2	357.2	358.7	357.7	357.7	357.7	358.2
7.5°	358.7	360.7	359.2	360.7	360.2	359.7	359.7	360.7
10°	360.2	361.8	360.7	362.3	361.8	361.3	361.3	362.3
12.5°	360.2	362.3	361.3	362.8	362.3	361.8	361.8	362.3
15°	358.7	361.3	359.7	361.3	360.7	360.2	360.2	361.3
17.5°	354.2	356.2	355.2	356.2	356.2	355.7	356.2	356.7
20°	348.1	349.6	348.6	349.6	349.6	348.6	349.1	349.6
22.5°	339.5	341.0	340.0	341.0	340.5	340.0	340.0	339.5
25°	328.9	330.9	329.4	330.4	329.4	328.4	328.4	328.9
27.5°	315.8	317.3	315.3	316.3	315.3	314.3	314.3	313.8
30°	298.6	299.1	297.6	298.6	297.6	297.1	296.1	296.1
32.5°	277.9	278.4	276.9	276.9	275.9	275.9	273.8	275.4
35°	253.6	254.1	253.6	253.1	251.6	251.1	250.6	250.6
37.5°	228.4	228.4	226.9	226.4	225.3	224.3	224.8	223.3
40°	202.6	202.1	200.6	201.1	200.6	199.1	198.6	198.1
42.5°	178.4	178.4	176.8	177.3	176.3	175.8	174.3	174.8
45°	157.1	157.1	155.6	155.6	155.1	153.6	154.1	153.1
47.5°	137.9	137.9	137.4	137.4	135.9	135.4	135.4	135.4
50°	121.3	121.3	121.3	121.3	120.8	120.2	119.7	120.2
52.5°	107.1	108.1	107.6	107.6	107.1	106.6	106.1	106.1
55°	94.5	95.0	95.0	95.5	95.0	94.5	95.0	94.5
57.5°	83.4	84.4	84.4	84.4	84.4	84.4	83.9	83.4
60°	73.8	74.3	74.3	74.8	74.8	74.8	74.3	74.3
62.5°	64.2	65.2	65.7	65.7	66.2	65.7	65.7	65.7
65°	56.6	57.6	58.1	57.6	58.1	58.1	57.6	57.6
67.5°	47.5	48.5	48.5	48.5	48.5	49.0	48.5	48.5
70°	38.4	39.4	38.9	39.4	39.4	39.4	39.4	39.4
72.5°	29.3	29.8	30.3	30.3	30.8	30.3	30.3	30.3
75°	21.2	22.2	22.2	22.2	22.2	22.7	22.7	22.7
77.5°	15.2	15.7	15.7	16.2	16.2	16.2	16.2	16.7
80°	10.6	10.6	11.1	11.1	11.6	11.6	11.6	11.6
82.5°	7.1	7.6	7.6	7.6	7.6	7.6	7.6	7.6
85°	4.0	4.5	4.5	4.5	4.5	5.1	5.1	5.1
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.0	2.0
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)