

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: P274437

Luminaire Tested: **LD6B10DE010W2N2050 EU6B1020W2N902050 6LBLWWOLI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274437
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B10DE010W2N2050 EU6B1020W2N902050 6LBLWW0LI
Description: PORTFOLIO 6" W2N RN DOWNLIGHT, LENSED WALLWASH WITH SPECULAR FINISH
Light Source: W2N 2000K-5000K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 725.2 lumens
Efficiency: N/A
Efficacy: 51.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

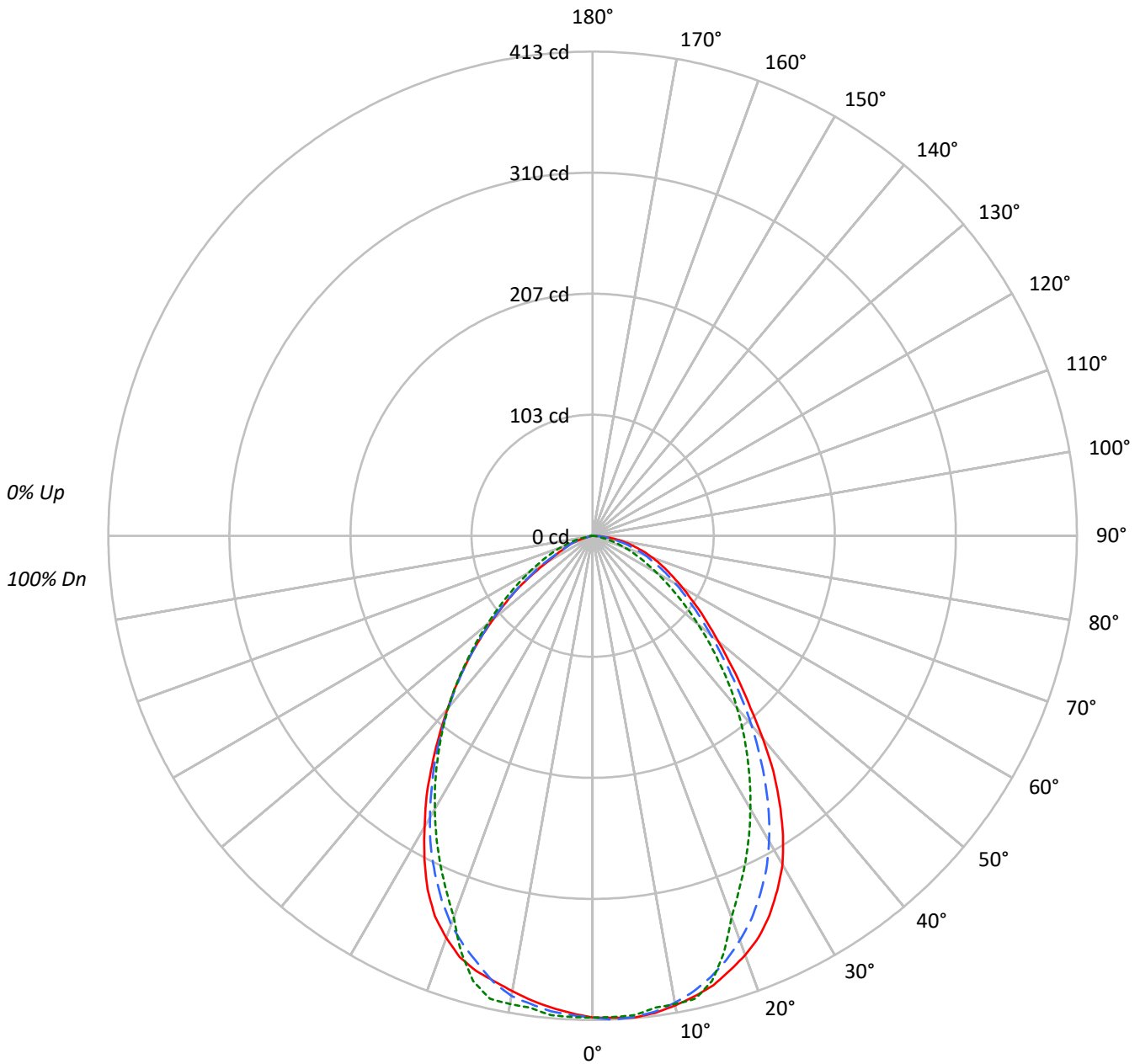
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P274437

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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	93	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	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44																			
8	67	55	47	42	66	54	47	42	53	46	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	40	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	26807	26807	26807
5°	27015	26877	26458
10°	26943	26870	26128
15°	26814	26564	25950
20°	26417	24043	25341
25°	25699	22164	23971
30°	24400	20265	21591
35°	22141	18318	18995
40°	19222	16318	16360
45°	16395	14033	13886
50°	14189	11865	11215
55°	12682	9896	8679
60°	11561	8220	5846
65°	10791	6762	4369
70°	10281	5494	3662
75°	9680	3907	1210
80°	9205	1991	413
85°	7560	1198	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.8	5.4
10°-20°	108.5	15.0
20°-30°	149.8	20.7
30°-40°	152.4	21.0
40°-50°	122.5	16.9
50°-60°	81.5	11.2
60°-70°	46.4	6.4
70°-80°	20.9	2.9
80°-90°	4.4	0.6
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°	297.1	41.0
0°-40°	449.6	62.0
0°-60°	653.6	90.1
0°-90°	725.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	725.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	411	411	411	411	411	
5°	412	412	410	407	404	39
15°	397	390	393	378	384	112
25°	357	338	308	318	333	164
35°	278	257	230	234	238	173
45°	178	167	152	150	150	138
55°	112	104	87	77	76	100
65°	70	62	44	28	28	70
75°	38	32	16	6	5	41
85°	10	7	2	0	0	12
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°	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9
2.5°	411.5	413.6	413.1	412.5	413.1	412.5	411.5	411.5	410.4	410.4	413.1
5°	412.5	413.6	413.1	412.5	412.5	413.1	410.9	410.9	409.9	409.3	412.0
7.5°	410.4	412.0	410.9	410.9	410.4	410.9	408.8	408.8	407.2	406.7	409.3
10°	406.7	408.8	407.7	407.7	407.7	406.7	405.6	405.1	403.5	402.9	404.5
12.5°	402.4	404.0	403.5	402.4	402.4	402.4	400.2	399.7	397.6	396.5	398.1
15°	397.0	398.1	397.6	397.0	396.0	396.0	393.8	392.8	390.6	388.5	389.6
17.5°	389.0	390.6	389.6	389.0	387.4	387.4	385.3	384.2	381.0	378.9	379.4
20°	380.5	381.0	380.5	379.4	377.8	377.3	375.2	373.0	370.4	367.7	367.2
22.5°	370.4	370.9	369.3	368.2	366.6	366.1	363.4	361.8	357.6	354.4	353.8
25°	357.0	357.6	357.6	354.9	353.8	352.8	350.1	347.4	343.7	339.4	337.8
27.5°	341.0	342.6	341.5	338.9	336.7	336.2	333.5	331.4	326.6	322.9	320.7
30°	323.9	323.4	322.9	321.3	318.1	317.5	314.9	312.2	308.5	303.7	301.0
32.5°	302.1	302.1	301.5	299.9	296.7	295.7	293.5	290.3	286.0	282.3	279.6
35°	278.0	278.6	278.0	274.8	272.7	271.6	270.6	266.8	263.1	258.8	256.7
37.5°	253.0	251.4	251.9	249.2	246.6	247.6	244.4	242.8	238.5	235.3	233.2
40°	225.7	226.8	224.7	223.6	222.0	220.4	220.4	217.7	215.6	211.9	210.8
42.5°	199.1	200.7	200.1	199.1	196.9	197.5	194.8	193.7	191.1	189.5	187.9
45°	177.7	177.7	177.7	176.6	176.1	175.0	173.4	171.8	170.2	168.1	167.0
47.5°	156.9	156.9	157.4	156.4	155.3	154.8	153.7	153.7	151.0	148.9	147.8
50°	139.8	139.8	139.8	138.8	137.7	137.7	136.6	135.6	134.0	132.3	131.3
52.5°	124.3	124.3	124.3	123.3	122.7	122.2	121.7	121.1	119.0	117.9	116.9
55°	111.5	111.0	111.0	110.5	109.4	109.4	108.9	107.8	106.2	104.6	104.1
57.5°	98.7	99.3	98.7	98.7	97.7	97.7	96.6	96.1	94.5	93.4	92.3
60°	88.6	88.6	88.6	88.1	87.0	87.5	86.5	85.9	84.3	82.7	81.7
62.5°	78.4	79.0	79.0	78.4	77.4	77.4	76.8	76.3	74.7	73.1	71.5
65°	69.9	69.9	69.9	69.4	68.8	68.8	68.3	67.8	66.2	64.0	62.4
67.5°	61.9	61.4	61.4	61.4	60.8	60.3	59.8	59.2	57.6	56.0	53.9
70°	53.9	53.9	53.9	53.4	52.3	52.8	52.3	51.8	50.2	48.6	47.0
72.5°	46.4	46.4	45.9	45.4	45.4	44.8	44.8	44.3	42.7	40.6	39.0
75°	38.4	38.4	38.4	38.4	37.4	37.9	36.8	36.3	35.2	33.6	32.0
77.5°	31.5	31.5	31.5	31.0	30.4	30.4	29.9	29.4	27.8	26.7	24.5
80°	24.5	24.5	24.5	24.5	24.0	23.5	22.9	22.4	21.3	19.7	18.1
82.5°	18.1	18.1	17.6	17.6	17.6	17.1	16.5	16.0	14.9	13.9	12.8
85°	10.1	10.7	10.7	9.6	10.1	9.6	9.6	8.5	8.5	7.5	6.9
87.5°	3.7	3.2	3.2	3.2	3.2	3.2	3.2	2.7	2.7	2.7	2.1
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°	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9
2.5°	410.9	410.4	412.5	412.5	409.3	410.9	411.5	410.4	410.4	410.9	409.3
5°	409.9	408.8	410.9	411.5	408.3	409.9	410.4	409.3	409.9	410.4	408.3
7.5°	406.1	406.1	407.7	408.3	405.1	406.7	406.7	405.6	406.1	406.1	404.5
10°	402.4	400.8	402.4	402.4	399.7	400.2	401.3	400.8	402.9	405.6	405.6
12.5°	395.4	393.8	396.5	396.5	394.9	397.0	399.7	401.3	403.5	404.5	401.3
15°	386.9	387.4	392.2	396.0	394.4	397.6	400.2	399.2	396.5	393.3	388.5
17.5°	375.7	374.1	378.4	380.5	378.4	379.4	381.6	379.4	375.2	372.5	366.1
20°	362.9	358.6	358.6	357.6	353.8	353.8	353.3	349.6	348.0	346.3	343.7
22.5°	348.5	343.7	342.1	338.9	335.7	335.1	333.5	329.8	327.7	326.6	323.4
25°	331.9	327.7	325.0	321.8	317.0	315.9	314.3	310.6	309.5	307.9	305.3
27.5°	314.9	309.5	305.8	302.6	298.3	297.8	294.6	291.9	289.8	288.7	286.6
30°	295.1	289.2	286.6	282.3	279.1	278.0	275.4	271.6	270.0	269.0	267.4
32.5°	273.2	268.4	265.8	262.0	257.8	258.3	255.1	251.9	250.8	249.8	248.2
35°	251.9	247.1	243.9	240.7	238.0	236.9	234.8	232.1	230.5	230.0	228.9
37.5°	228.4	224.7	222.0	218.8	216.7	215.6	214.5	211.9	210.8	210.8	208.7
40°	205.5	202.3	200.1	198.5	195.9	195.3	194.3	192.7	192.1	191.6	190.0
42.5°	184.6	180.4	178.8	177.7	176.1	175.0	174.5	173.4	172.9	172.4	170.8
45°	164.9	161.2	159.6	158.5	156.9	156.4	155.8	154.2	153.2	152.1	151.6
47.5°	145.7	143.0	142.5	139.8	138.8	137.7	136.6	135.6	135.0	134.5	132.3
50°	129.1	127.5	124.9	123.3	122.2	121.7	119.5	117.9	117.4	116.9	115.3
52.5°	114.2	112.1	110.5	107.8	107.3	106.2	105.1	103.0	101.9	101.4	99.8
55°	100.9	99.3	97.1	95.0	93.4	92.9	91.3	89.1	88.1	87.0	85.9
57.5°	89.7	87.0	84.9	82.7	81.7	80.0	78.4	77.4	75.8	74.2	72.6
60°	79.0	76.8	74.2	72.0	71.0	69.9	67.8	66.2	64.6	63.0	61.4
62.5°	68.8	66.7	64.0	61.9	60.8	59.8	57.6	56.0	54.4	52.8	50.7
65°	59.8	57.6	55.5	53.4	52.3	51.2	49.1	47.0	45.4	43.8	41.6
67.5°	52.3	49.6	47.5	45.4	44.3	43.2	41.1	39.5	37.4	35.8	33.6
70°	44.3	42.2	40.6	38.4	37.4	36.3	34.2	32.0	30.4	28.8	26.7
72.5°	37.4	34.7	33.1	31.0	29.9	29.4	27.2	25.6	24.0	21.9	20.3
75°	29.9	27.8	25.6	24.0	22.9	22.4	20.3	18.7	17.1	15.5	13.9
77.5°	22.9	21.3	19.2	17.6	16.5	16.0	13.9	12.3	10.7	9.6	8.0
80°	17.1	14.9	13.9	12.3	11.7	10.7	9.6	8.0	6.9	5.3	4.3
82.5°	11.7	10.1	9.1	8.0	7.5	6.9	5.9	4.8	3.7	3.2	2.7
85°	6.4	5.3	4.8	4.3	3.7	3.7	3.2	2.7	2.1	1.6	1.1
87.5°	2.1	1.6	1.6	1.6	1.6	1.1	1.1	1.1	0.5	0.5	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°	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9
2.5°	410.4	410.4	410.4	409.9	409.9	409.9	409.3	411.5	409.3	408.8	410.4
5°	409.9	408.8	408.8	408.8	408.8	408.3	407.7	408.8	407.2	406.7	406.7
7.5°	406.7	406.1	406.1	405.6	405.1	404.5	404.0	404.5	402.9	402.4	402.4
10°	407.2	406.1	406.1	404.5	403.5	401.9	400.2	400.8	398.6	397.0	397.0
12.5°	400.8	398.1	396.5	394.9	393.8	393.3	391.2	392.2	390.1	389.6	389.6
15°	386.4	383.2	380.5	379.4	379.4	378.4	376.8	378.9	377.8	378.4	381.0
17.5°	364.0	362.4	360.8	360.2	360.8	361.8	362.9	366.1	366.1	367.7	370.4
20°	344.2	343.1	344.2	344.2	344.7	346.9	349.0	351.7	352.8	354.4	358.1
22.5°	325.0	325.0	326.1	327.7	327.1	330.9	331.4	336.2	336.2	339.4	342.6
25°	306.3	306.3	307.4	307.9	309.0	311.1	313.3	317.0	318.1	321.3	323.9
27.5°	288.2	287.6	287.6	288.2	289.2	291.9	293.0	297.3	298.9	301.0	303.7
30°	267.9	267.4	268.4	269.5	269.0	271.6	273.2	276.4	277.5	279.6	281.8
32.5°	248.7	248.7	248.7	249.8	249.8	251.9	251.9	255.6	255.6	257.2	259.4
35°	228.9	228.9	229.5	230.0	230.5	231.1	231.6	233.7	234.3	234.8	235.9
37.5°	210.3	209.7	210.3	210.3	209.2	211.3	211.3	213.5	211.9	213.5	214.0
40°	191.1	191.1	190.5	190.5	190.5	191.6	190.5	192.1	191.1	192.1	191.6
42.5°	171.3	171.3	170.2	171.3	170.8	170.8	170.8	171.8	170.2	171.3	171.8
45°	151.6	151.0	151.0	150.5	150.5	150.5	151.0	151.0	150.5	151.6	151.6
47.5°	132.3	131.8	131.8	131.8	131.8	132.3	130.7	131.8	130.7	130.7	130.7
50°	115.8	115.3	114.7	114.2	113.7	113.7	113.1	113.1	112.1	111.5	111.0
52.5°	99.8	99.3	98.2	98.2	97.7	97.1	95.5	95.5	93.9	93.4	93.4
55°	85.4	83.8	83.3	82.2	82.2	81.1	80.0	79.0	77.4	76.3	76.3
57.5°	72.0	70.4	69.4	68.8	68.3	67.2	65.1	64.6	62.4	61.9	61.4
60°	60.3	58.7	57.1	56.0	55.5	53.9	51.8	50.7	49.6	48.0	46.4
62.5°	49.1	47.5	45.4	44.8	43.8	42.2	40.6	39.0	37.9	36.3	35.2
65°	39.5	37.9	36.3	35.2	34.2	32.6	31.0	29.4	28.3	27.8	27.2
67.5°	32.0	29.9	28.3	27.8	26.7	25.6	24.0	23.5	22.4	22.4	22.4
70°	25.1	23.5	21.9	21.3	20.8	19.7	18.7	18.7	18.7	18.7	18.7
72.5°	18.7	17.6	16.0	15.5	14.9	14.4	13.3	13.9	13.3	13.3	13.3
75°	11.7	10.7	9.6	9.1	8.5	8.0	7.5	6.9	6.4	5.9	5.9
77.5°	6.4	5.3	4.8	4.3	4.3	3.7	3.2	3.2	2.7	2.7	2.7
80°	3.7	3.2	2.7	2.1	2.1	1.6	1.6	1.6	1.6	1.1	1.1
82.5°	2.1	1.6	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5
85°	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	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	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	410.9	410.9	410.9	410.9	410.9	410.9	410.9	410.9
2.5°	407.7	409.3	407.7	409.3	409.3	409.3	409.3	407.7
5°	405.1	406.1	404.5	405.6	406.1	405.6	405.6	404.0
7.5°	400.2	401.3	399.7	401.3	401.9	401.3	400.8	399.7
10°	395.4	396.0	394.4	395.4	396.5	396.5	396.0	394.4
12.5°	388.0	389.6	388.0	389.0	390.1	390.6	390.6	389.0
15°	379.4	382.1	381.0	382.6	384.2	384.8	384.8	384.2
17.5°	370.9	373.6	372.0	374.6	376.2	377.3	377.8	376.8
20°	358.6	361.8	360.8	362.9	365.0	366.6	366.6	365.0
22.5°	342.6	346.9	346.3	348.0	350.6	351.2	352.2	351.2
25°	325.0	328.2	327.7	329.3	332.5	332.5	333.0	333.0
27.5°	304.7	307.9	307.4	308.5	310.6	311.1	311.7	310.6
30°	282.8	284.4	284.4	286.0	287.6	288.2	288.2	286.6
32.5°	258.8	261.0	262.0	261.5	263.1	264.2	263.6	263.6
35°	236.9	237.5	238.0	238.5	239.1	240.1	239.1	238.5
37.5°	213.5	215.1	214.0	215.1	216.1	215.6	215.1	215.1
40°	192.1	192.7	191.6	192.7	193.2	193.2	193.2	192.1
42.5°	170.8	171.8	170.8	171.8	171.8	171.8	171.8	171.3
45°	149.4	150.5	150.5	151.0	151.0	150.5	150.5	150.5
47.5°	129.7	130.7	129.7	130.7	131.3	130.2	130.2	130.2
50°	111.0	110.5	110.5	111.0	111.0	111.0	111.0	110.5
52.5°	91.8	92.3	92.3	92.3	92.9	92.3	92.9	92.9
55°	75.2	75.2	75.2	75.8	75.2	75.2	75.8	76.3
57.5°	60.3	59.8	59.2	59.2	59.8	59.2	59.2	59.2
60°	46.4	45.9	45.4	45.4	45.4	45.4	45.4	44.8
62.5°	34.7	34.7	34.7	35.2	35.2	35.2	35.2	35.8
65°	27.8	27.8	27.8	27.8	27.8	27.8	27.8	28.3
67.5°	22.4	22.4	22.4	22.9	22.9	22.9	22.9	22.9
70°	18.7	18.7	19.2	18.7	19.2	19.2	19.2	19.2
72.5°	12.8	12.8	12.8	12.8	12.8	12.3	12.8	12.3
75°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	4.8
77.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0
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)