

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: P252549

Luminaire Tested: **LD6B10D010 EU6B10209024 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B10D010 EU6B10209024 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 765.0 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

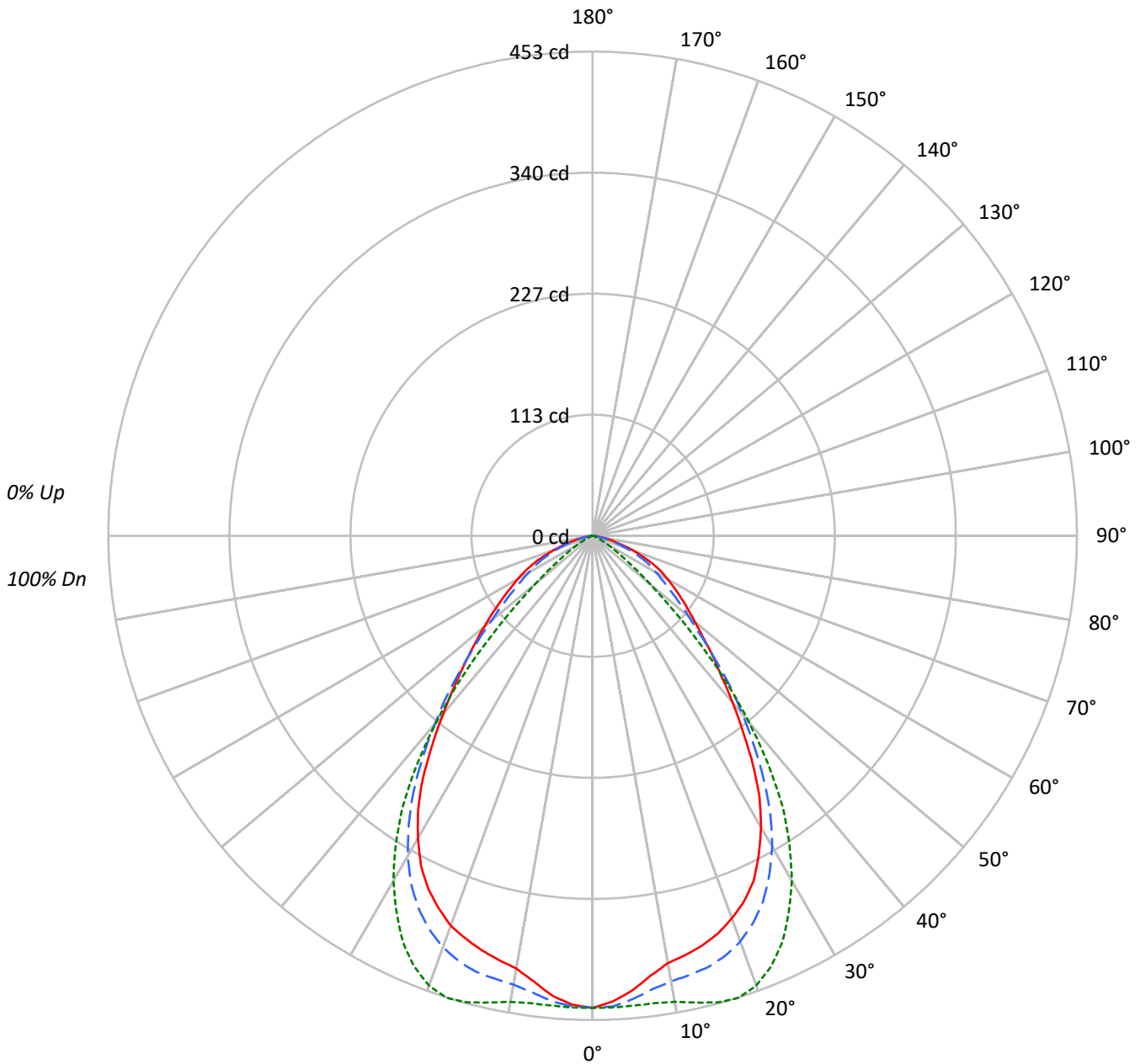
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																			
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70																			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46																			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42																			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	28817	28817	28817
5°	27958	28894	28292
10°	26890	29328	27228
15°	26794	30522	27105
20°	26445	31090	26945
25°	25655	30212	26210
30°	23730	28077	24619
35°	20819	24682	22038
40°	17348	19350	18481
45°	14605	12769	15593
50°	12646	6993	13418
55°	11443	3719	11727
60°	10530	1931	10530
65°	9540	1019	9309
70°	7687	591	7115
75°	5268	378	4890
80°	3456	188	3081
85°	2321	374	1946



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.2	5.4
10°-20°	119.1	15.6
20°-30°	176.0	23.0
30°-40°	177.7	23.2
40°-50°	122.5	16.0
50°-60°	70.4	9.2
60°-70°	40.9	5.4
70°-80°	14.9	2.0
80°-90°	2.3	0.3
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°	336.2	44.0
0°-40°	514.0	67.2
0°-60°	706.8	92.4
0°-90°	765.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	765.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	442	442	442	442	442	
5°	427	435	441	437	432	40
15°	397	418	452	422	401	112
25°	356	377	420	385	364	162
35°	261	279	310	292	277	162
45°	158	160	138	170	169	123
55°	101	88	33	92	103	91
65°	62	52	7	52	60	60
75°	21	17	2	16	19	24
85°	3	2	0	2	3	4
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°	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7
2.5°	436.1	436.6	437.1	436.6	437.1	439.1	437.6	438.6	438.6	439.1	440.7
5°	426.9	426.9	427.9	427.4	428.9	430.9	429.4	430.9	431.5	432.5	435.0
7.5°	415.1	415.1	415.6	415.6	417.7	419.7	418.7	420.7	422.8	424.8	427.9
10°	405.9	407.0	407.0	407.5	409.5	412.1	411.5	414.1	416.1	419.2	423.3
12.5°	401.8	402.4	402.4	403.4	405.4	408.0	407.5	410.0	413.1	416.7	420.7
15°	396.7	397.8	397.3	398.3	400.3	402.9	402.4	404.9	408.5	412.1	417.7
17.5°	390.1	390.6	391.1	391.1	393.2	395.2	395.2	397.8	401.8	405.9	412.1
20°	380.9	381.9	381.9	382.4	384.0	387.0	386.5	389.1	393.2	397.3	403.9
22.5°	370.2	370.7	370.7	371.2	373.8	375.3	375.8	377.8	381.4	386.0	392.1
25°	356.4	356.9	356.4	357.9	359.0	362.0	361.0	363.6	367.6	371.2	377.3
27.5°	336.5	337.5	337.5	338.0	340.6	343.1	343.1	345.7	349.3	351.8	357.9
30°	315.0	316.6	315.0	317.6	318.6	320.7	322.2	323.7	326.8	330.4	336.0
32.5°	290.5	290.0	290.5	291.6	294.6	296.2	297.2	298.7	301.8	304.8	309.4
35°	261.4	262.5	263.0	265.0	265.0	267.6	268.1	269.1	273.7	275.7	279.3
37.5°	230.8	231.8	232.3	233.3	235.4	236.4	237.9	239.5	242.5	246.1	248.2
40°	203.7	203.7	204.2	205.3	206.8	207.3	208.8	210.9	212.9	216.0	218.0
42.5°	178.2	178.7	178.2	179.2	180.8	182.8	182.3	184.8	185.3	187.4	188.9
45°	158.3	158.3	157.3	158.3	158.3	160.3	159.8	160.8	160.3	161.4	160.3
47.5°	139.4	139.9	139.4	139.9	139.9	139.9	140.4	139.4	139.9	138.4	135.3
50°	124.6	125.1	124.1	124.6	124.1	123.6	124.1	122.5	122.0	120.0	116.9
52.5°	111.8	111.3	110.8	110.8	110.8	110.3	109.8	108.2	106.7	104.7	101.1
55°	100.6	100.1	99.6	99.6	98.5	98.0	98.0	96.5	95.0	92.4	88.3
57.5°	90.4	89.9	89.4	89.4	88.8	87.8	87.8	86.3	84.2	81.2	77.6
60°	80.7	80.7	80.7	80.2	80.2	79.1	79.1	77.6	75.6	72.5	68.4
62.5°	72.0	71.5	71.5	71.5	71.5	71.0	70.5	69.4	67.4	64.3	60.8
65°	61.8	61.8	61.8	61.8	61.3	61.3	61.3	59.7	58.7	55.7	52.1
67.5°	50.5	50.5	50.5	50.5	50.0	50.5	50.5	49.5	48.5	45.4	42.4
70°	40.3	39.8	39.3	39.8	39.3	39.3	39.8	38.8	38.3	35.7	32.7
72.5°	29.6	30.1	29.6	29.6	29.6	29.1	29.6	29.1	28.1	26.0	24.0
75°	20.9	21.4	21.4	20.9	20.9	20.9	20.4	20.4	19.4	17.9	16.8
77.5°	14.3	14.3	14.3	14.3	13.8	13.8	13.8	13.3	12.8	11.7	10.7
80°	9.2	9.2	9.2	9.2	8.7	8.7	8.7	8.2	8.2	7.1	6.1
82.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.1	5.1	4.6	4.1	3.6
85°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	2.6	2.6	2.0	1.5
87.5°	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7
2.5°	439.6	440.1	440.1	440.1	441.7	442.2	440.7	439.1	442.2	441.7	442.7
5°	434.5	436.1	437.1	437.6	439.1	440.1	438.6	438.1	440.7	441.2	441.7
7.5°	428.4	430.9	433.5	434.5	436.6	437.6	437.1	437.1	440.1	441.2	441.2
10°	424.3	427.9	430.9	433.5	436.1	437.6	437.6	438.1	441.7	442.7	443.7
12.5°	423.3	427.9	432.0	435.5	437.6	440.1	440.7	442.2	445.8	447.3	447.3
15°	420.7	426.9	432.0	436.6	439.6	442.7	443.7	446.8	450.9	451.9	452.9
17.5°	416.1	422.3	428.4	434.0	438.1	440.7	443.7	446.8	451.9	453.4	453.9
20°	408.0	415.1	421.2	426.9	430.9	434.5	437.6	441.2	445.8	447.8	448.3
22.5°	395.7	402.9	409.0	415.1	419.2	422.3	425.3	429.4	434.0	436.1	436.1
25°	380.9	387.5	394.2	398.8	402.9	406.4	408.0	412.6	417.2	419.7	419.7
27.5°	362.0	368.1	374.3	379.4	381.9	385.0	387.5	391.6	395.2	397.3	399.3
30°	338.0	344.1	349.8	354.9	357.9	361.0	363.6	366.6	370.2	372.7	373.3
32.5°	312.0	317.1	322.7	327.8	330.9	331.9	334.4	337.5	340.6	342.6	343.1
35°	283.4	287.0	290.5	295.1	298.2	298.2	300.7	302.8	305.3	309.9	308.9
37.5°	249.7	254.8	257.3	258.9	260.9	263.0	263.5	266.0	269.1	270.1	271.6
40°	218.0	219.6	221.1	221.1	223.1	223.1	223.1	223.6	226.7	227.2	229.3
42.5°	186.4	186.4	184.8	183.3	183.8	183.3	180.8	180.8	182.3	184.3	184.3
45°	156.8	153.2	148.6	145.0	142.5	141.4	138.4	138.4	137.9	138.4	140.4
47.5°	131.7	125.6	117.9	110.8	108.2	106.2	101.6	99.6	98.5	99.1	100.1
50°	110.8	104.2	95.5	86.8	82.2	79.7	74.0	70.5	70.0	68.9	71.0
52.5°	95.5	87.3	78.1	67.9	63.3	59.2	53.1	50.0	48.0	48.0	48.5
55°	82.2	73.5	63.3	53.1	48.5	45.4	39.3	35.2	33.2	32.7	34.2
57.5°	71.0	62.8	52.6	42.4	37.8	34.2	28.1	24.5	23.0	22.0	22.5
60°	62.3	54.1	43.9	34.2	30.1	26.0	20.9	16.8	14.8	14.8	15.3
62.5°	54.1	46.5	37.3	28.1	24.5	20.9	15.3	11.7	10.2	9.7	10.2
65°	46.0	38.8	31.1	23.5	19.9	16.8	12.3	9.2	7.1	6.6	7.1
67.5°	37.3	31.7	25.0	18.9	15.8	13.3	9.2	6.6	5.1	4.6	5.1
70°	29.1	24.0	18.9	13.8	11.7	9.7	6.6	5.1	3.6	3.1	3.6
72.5°	20.9	17.4	13.3	9.7	8.2	6.6	4.6	3.6	2.6	2.0	2.6
75°	14.3	11.7	8.7	6.1	5.1	4.6	3.1	2.0	1.5	1.5	1.5
77.5°	9.2	7.1	5.6	4.1	3.1	2.6	1.5	1.0	1.0	1.0	1.0
80°	5.1	4.1	3.1	2.0	1.5	1.5	1.0	1.0	0.5	0.5	0.5
82.5°	3.1	2.0	1.5	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5
85°	1.5	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7
2.5°	440.7	441.2	439.6	441.7	440.1	442.2	442.2	440.1	440.7	439.6	441.7
5°	439.6	439.6	438.6	440.1	438.1	440.1	439.6	436.1	437.1	435.0	437.1
7.5°	439.6	438.6	437.1	438.6	436.1	437.6	435.5	432.0	430.9	428.4	428.4
10°	441.2	439.6	437.6	438.1	435.5	436.1	433.0	427.9	426.4	423.3	422.3
12.5°	444.7	443.2	440.1	441.2	437.6	437.6	433.5	427.4	424.3	420.2	419.2
15°	449.8	447.3	443.7	444.2	440.7	438.6	433.5	426.4	422.3	416.7	415.1
17.5°	450.9	448.3	443.7	443.7	439.1	436.6	430.4	422.3	417.2	411.5	408.5
20°	445.2	442.7	437.6	437.1	433.0	429.4	422.8	414.6	409.5	403.4	400.8
22.5°	433.5	430.4	425.8	425.3	421.2	419.2	412.1	403.9	398.8	392.7	390.6
25°	416.1	414.6	410.0	409.5	405.9	403.4	397.3	389.6	385.0	378.9	376.8
27.5°	395.7	394.2	389.6	389.6	385.5	384.0	378.4	371.2	367.6	362.0	359.5
30°	371.2	369.2	366.6	366.1	362.5	361.0	355.9	349.3	345.7	341.1	340.1
32.5°	342.1	340.6	339.0	338.5	335.0	333.4	329.9	323.2	320.1	316.1	314.5
35°	308.4	307.4	305.9	305.3	303.8	302.3	298.7	293.6	292.1	289.0	287.5
37.5°	269.6	270.6	269.6	269.6	268.1	268.6	265.5	262.5	260.9	258.9	257.9
40°	227.7	229.8	231.3	231.3	230.8	232.8	232.3	229.8	229.3	228.2	227.7
42.5°	185.3	186.4	189.4	191.5	191.0	196.1	196.6	198.6	200.2	199.1	199.6
45°	140.9	144.0	148.1	150.1	152.7	159.3	162.9	167.0	170.5	172.6	172.1
47.5°	101.6	105.2	109.8	112.8	117.4	125.6	134.8	139.9	145.0	147.6	150.1
50°	73.5	77.1	82.7	87.3	90.4	101.6	111.3	117.9	123.6	127.1	129.7
52.5°	51.6	55.7	61.8	65.9	70.5	81.2	92.4	100.1	106.2	110.8	113.4
55°	35.7	40.3	46.0	50.0	55.1	66.4	77.1	85.3	91.9	96.0	99.1
57.5°	25.0	29.1	34.7	38.3	43.4	54.1	64.8	73.0	79.7	83.7	87.3
60°	16.8	20.9	26.6	30.1	34.2	44.9	54.6	63.3	69.4	73.5	77.1
62.5°	11.7	15.3	20.9	24.5	28.1	37.3	46.5	54.1	60.3	64.8	67.9
65°	9.2	12.3	16.8	19.9	23.5	31.1	38.8	45.4	51.6	56.2	58.2
67.5°	6.6	9.7	13.3	15.8	18.4	25.0	31.7	36.8	42.4	46.0	48.5
70°	4.6	6.6	9.7	11.7	13.8	18.9	24.0	28.6	32.7	35.2	37.3
72.5°	3.6	4.6	6.6	8.2	9.7	13.3	17.4	20.9	24.0	26.0	28.1
75°	2.0	3.1	4.6	5.6	6.6	9.2	11.7	14.3	16.3	17.9	18.9
77.5°	1.0	1.5	2.6	3.1	4.1	5.6	7.7	9.2	10.7	11.7	12.8
80°	1.0	1.0	1.5	1.5	2.0	3.1	4.1	5.1	6.1	7.1	7.7
82.5°	0.5	0.5	1.0	1.0	1.0	1.5	2.0	3.1	3.6	4.1	4.6
85°	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.5	2.0	2.6	2.6
87.5°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7
2.5°	440.1	441.2	440.7	441.7	440.1	439.6	440.7	439.1
5°	434.5	435.0	434.5	434.5	433.5	432.5	433.5	432.0
7.5°	425.8	425.8	424.3	424.3	422.3	421.2	421.2	420.7
10°	418.7	417.2	415.6	416.1	413.1	412.1	411.5	411.0
12.5°	415.1	414.1	411.5	411.5	408.5	407.5	407.0	406.4
15°	411.0	409.0	407.0	406.4	403.9	402.9	402.4	401.3
17.5°	403.9	402.4	399.8	399.8	397.3	396.7	395.7	395.2
20°	396.2	394.2	392.1	392.1	389.1	389.1	387.5	388.1
22.5°	385.5	384.0	381.9	381.9	379.4	378.9	377.3	376.8
25°	372.7	370.7	369.2	368.7	366.6	365.6	365.1	364.1
27.5°	355.9	354.4	352.8	351.8	349.3	348.7	347.2	347.7
30°	335.0	333.9	333.4	332.4	329.3	328.3	328.3	326.8
32.5°	312.0	310.4	309.4	307.9	305.3	304.8	303.3	303.8
35°	283.9	281.9	280.3	280.8	277.8	277.3	276.2	276.7
37.5°	254.8	252.7	250.7	250.2	247.6	247.6	246.1	246.1
40°	224.7	222.6	221.6	221.6	218.5	219.0	217.5	217.0
42.5°	197.6	195.6	195.1	194.5	193.0	192.5	191.0	191.5
45°	172.1	171.6	171.6	170.5	169.0	168.5	169.0	169.0
47.5°	149.6	150.1	149.6	149.6	148.6	149.6	148.6	149.1
50°	130.7	131.7	131.7	131.7	131.2	131.7	131.7	132.2
52.5°	114.9	116.4	115.9	116.4	115.9	116.9	116.4	116.9
55°	101.1	102.1	102.6	103.1	103.1	103.1	103.1	103.1
57.5°	88.3	89.9	90.4	90.9	90.9	91.9	90.9	90.9
60°	78.1	79.7	80.2	80.7	80.7	81.2	80.2	80.7
62.5°	68.9	70.5	70.5	71.0	71.0	71.0	70.0	70.5
65°	59.7	60.3	60.8	60.8	60.3	60.3	59.7	60.3
67.5°	49.5	50.0	49.5	49.5	49.0	49.0	48.0	48.5
70°	38.3	38.3	38.8	38.3	37.8	38.3	37.8	37.3
72.5°	28.6	28.6	28.6	28.1	28.1	27.6	28.1	28.1
75°	19.4	19.4	19.9	19.9	19.9	19.9	19.4	19.4
77.5°	12.8	12.8	12.8	12.8	13.3	12.8	12.8	12.8
80°	8.2	8.2	8.7	8.7	8.2	8.2	8.2	8.2
82.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
85°	3.1	3.1	3.1	3.1	2.6	2.6	2.6	2.6
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0
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)