

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: P252664

Luminaire Tested: **LD6B15D010 EU6B10208040 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252664
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: LD6B15D010 EU6B10208040 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1418.0 lumens
Efficiency: N/A
Efficacy: 98.5 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

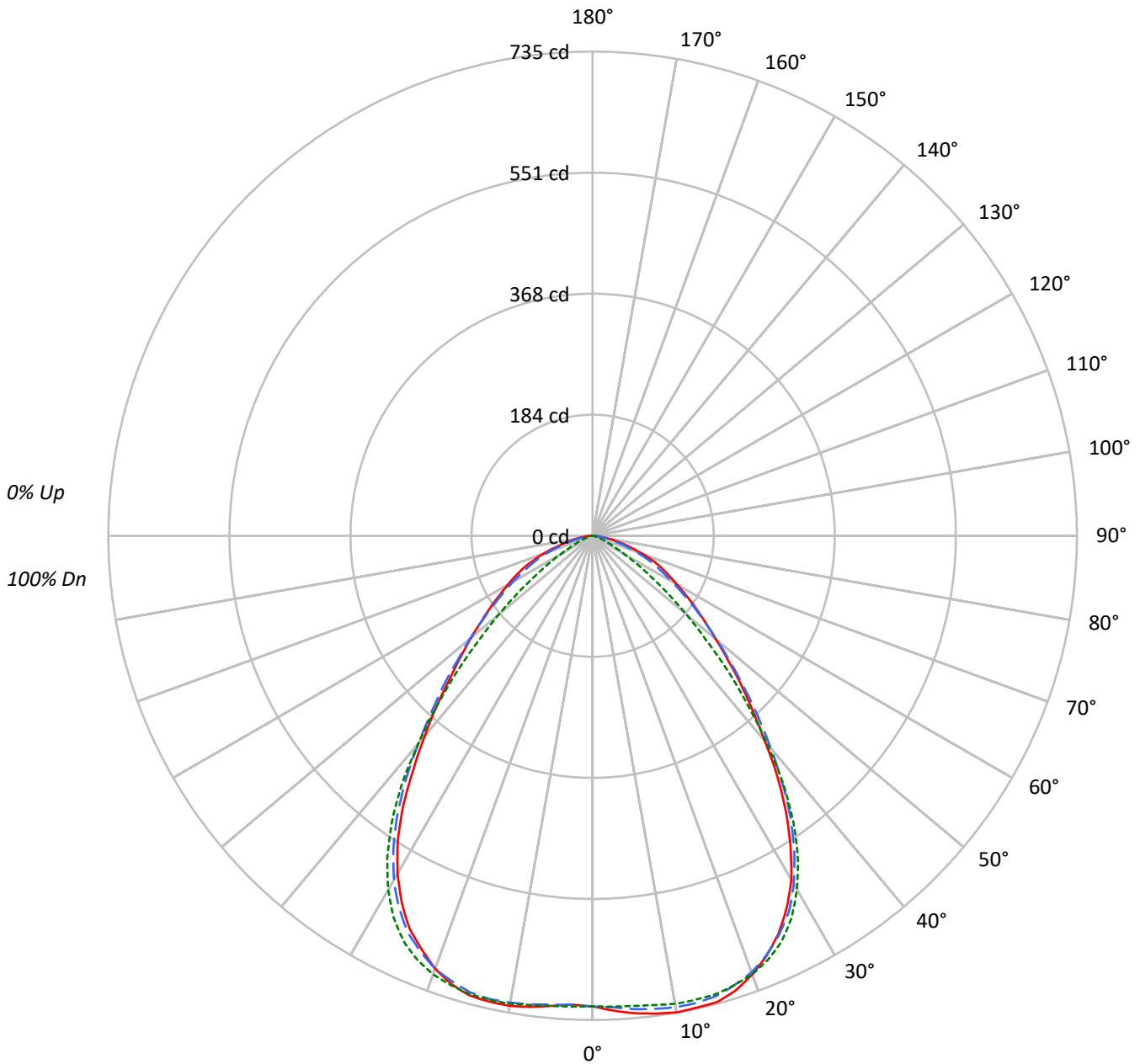
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252664

CATALOG NUMBER: LD6B15D010 EU6B10208040 6LBDW1H

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	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°	46608	46608	46608
5°	47650	46917	46917
10°	48665	47797	47996
15°	49481	48664	48799
20°	49183	49183	48551
25°	48007	48885	47352
30°	45449	46737	44605
35°	40722	42331	39918
40°	34594	35029	33734
45°	29275	26757	28251
50°	24714	18868	24410
55°	21725	12182	21498
60°	19246	7255	19376
65°	17784	4369	17784
70°	15413	2499	15031
75°	12225	1538	11469
80°	9130	1127	8716
85°	8309	749	7560



TEST NUMBER: P252664

CATALOG NUMBER: LD6B15D010 EU6B10208040 6LBDW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	4.9
10°-20°	203.6	14.4
20°-30°	306.2	21.6
30°-40°	321.9	22.7
40°-50°	240.5	17.0
50°-60°	149.7	10.6
60°-70°	85.1	6.0
70°-80°	35.1	2.5
80°-90°	7.2	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°	578.5	40.8
0°-40°	900.4	63.5
0°-60°	1290.6	91.0
0°-90°	1418.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1418.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	714	714	714	714	714	
5°	728	722	716	714	716	70
15°	733	724	720	718	722	206
25°	667	669	679	664	658	305
35°	511	524	532	516	501	317
45°	317	324	290	318	306	246
55°	191	187	107	184	189	172
65°	115	103	28	103	115	113
75°	48	38	6	37	46	53
85°	11	7	1	6	10	12
90°	0	0	0	0	0	



TEST NUMBER: P252664

CATALOG NUMBER: LD6B15D010 EU6B10208040 6LBDW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	714.4	714.4	714.4	714.4	714.4	714.4	714.4	714.4	714.4	714.4	714.4
2.5°	721.5	720.5	721.5	719.5	718.5	718.5	719.5	717.5	716.4	717.5	716.4
5°	727.6	725.5	726.5	725.5	723.5	723.5	724.5	721.5	721.5	722.5	721.5
7.5°	731.6	731.6	731.6	729.6	728.6	727.6	729.6	726.5	725.5	725.5	724.5
10°	734.6	733.6	734.6	732.6	730.6	729.6	731.6	729.6	727.6	729.6	726.5
12.5°	733.6	733.6	733.6	732.6	730.6	729.6	731.6	728.6	727.6	728.6	726.5
15°	732.6	729.6	730.6	729.6	726.5	726.5	727.6	724.5	722.5	725.5	723.5
17.5°	723.5	721.5	722.5	720.5	718.5	717.5	718.5	717.5	715.4	717.5	715.4
20°	708.4	708.4	709.4	707.3	705.3	704.3	706.3	704.3	702.3	705.3	705.3
22.5°	690.2	690.2	690.2	689.2	688.1	688.1	688.1	687.1	686.1	688.1	689.2
25°	666.9	665.9	666.9	667.9	666.9	665.9	666.9	666.9	664.9	668.9	668.9
27.5°	637.6	637.6	639.6	638.6	638.6	637.6	639.6	639.6	638.6	641.7	644.7
30°	603.3	601.2	603.3	603.3	604.3	604.3	605.3	605.3	605.3	608.3	610.3
32.5°	558.8	559.8	562.8	561.8	560.8	563.9	563.9	565.9	566.9	568.9	569.9
35°	511.3	512.3	512.3	513.3	515.4	513.3	518.4	517.4	518.4	522.4	524.4
37.5°	460.8	457.8	462.8	460.8	461.8	461.8	463.8	464.8	467.9	472.9	472.9
40°	406.2	407.2	409.2	410.3	411.3	411.3	411.3	414.3	415.3	421.4	420.4
42.5°	358.7	358.7	360.7	361.8	361.8	361.8	361.8	364.8	366.8	368.8	370.9
45°	317.3	314.3	316.3	316.3	318.3	317.3	319.3	321.3	322.3	325.4	324.4
47.5°	277.9	276.9	277.9	278.9	277.9	278.9	279.9	280.9	281.9	281.9	281.9
50°	243.5	243.5	244.5	245.5	245.5	245.5	245.5	246.6	246.6	248.6	246.6
52.5°	215.2	216.2	216.2	215.2	216.2	216.2	217.3	217.3	216.2	216.2	213.2
55°	191.0	190.0	191.0	190.0	191.0	191.0	190.0	190.0	189.0	188.0	186.9
57.5°	167.7	167.7	167.7	167.7	166.7	167.7	166.7	165.7	165.7	163.7	160.7
60°	147.5	147.5	147.5	147.5	147.5	146.5	147.5	146.5	144.5	142.5	138.4
62.5°	130.4	129.3	130.4	129.3	129.3	128.3	128.3	127.3	125.3	123.3	119.2
65°	115.2	116.2	115.2	115.2	114.2	113.2	113.2	112.2	109.1	107.1	103.1
67.5°	99.0	98.0	98.0	98.0	97.0	97.0	97.0	95.0	93.0	89.9	85.9
70°	80.8	80.8	80.8	79.8	79.8	78.8	78.8	77.8	75.8	73.8	68.7
72.5°	63.7	63.7	63.7	61.6	62.7	61.6	61.6	59.6	58.6	55.6	52.5
75°	48.5	48.5	47.5	47.5	46.5	45.5	45.5	44.5	43.5	41.4	38.4
77.5°	35.4	35.4	35.4	34.4	33.3	32.3	32.3	31.3	30.3	29.3	27.3
80°	24.3	24.3	24.3	24.3	23.2	22.2	22.2	21.2	21.2	20.2	18.2
82.5°	16.2	16.2	16.2	16.2	15.2	15.2	15.2	14.1	13.1	13.1	11.1
85°	11.1	11.1	10.1	10.1	10.1	10.1	9.1	9.1	8.1	7.1	7.1
87.5°	6.1	6.1	6.1	6.1	5.1	5.1	5.1	5.1	4.0	4.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P252664

CATALOG NUMBER: LD6B15D010 EU6B10208040 6LBDW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	714.4	714.4	714.4	714.4	714.4	714.4	714.4	714.4	714.4	714.4	714.4
2.5°	719.5	719.5	718.5	715.4	716.4	715.4	716.4	715.4	712.4	715.4	712.4
5°	723.5	724.5	722.5	718.5	719.5	718.5	718.5	717.5	714.4	716.4	714.4
7.5°	727.6	726.5	725.5	721.5	722.5	721.5	721.5	719.5	716.4	718.5	715.4
10°	729.6	729.6	727.6	723.5	723.5	722.5	723.5	722.5	718.5	721.5	719.5
12.5°	729.6	728.6	728.6	723.5	724.5	723.5	724.5	722.5	719.5	721.5	720.5
15°	726.5	726.5	725.5	720.5	721.5	721.5	722.5	720.5	717.5	720.5	718.5
17.5°	720.5	720.5	719.5	715.4	717.5	717.5	718.5	716.4	713.4	715.4	715.4
20°	708.4	709.4	709.4	706.3	708.4	708.4	709.4	708.4	707.3	708.4	706.3
22.5°	694.2	696.2	696.2	693.2	695.2	695.2	698.3	697.2	695.2	696.2	695.2
25°	673.0	675.0	677.0	675.0	677.0	677.0	680.1	679.1	677.0	679.1	676.0
27.5°	648.7	649.7	651.8	649.7	652.8	651.8	654.8	653.8	650.8	653.8	652.8
30°	614.4	618.4	621.5	618.4	621.5	621.5	623.5	622.5	621.5	620.4	620.4
32.5°	576.0	580.0	580.0	579.0	581.0	581.0	582.0	580.0	579.0	580.0	581.0
35°	528.5	530.5	532.5	531.5	532.5	533.5	532.5	533.5	530.5	531.5	531.5
37.5°	477.0	479.0	479.0	475.9	478.0	478.0	475.9	475.9	473.9	475.9	471.9
40°	422.4	420.4	421.4	419.4	417.3	417.3	416.3	412.3	410.3	411.3	412.3
42.5°	368.8	368.8	365.8	360.7	355.7	355.7	352.7	350.6	346.6	348.6	347.6
45°	323.4	318.3	314.3	306.2	303.1	301.1	296.1	291.0	289.0	290.0	289.0
47.5°	279.9	275.9	265.8	254.6	251.6	248.6	242.5	236.5	234.4	232.4	232.4
50°	243.5	236.5	225.3	213.2	208.2	203.1	195.0	189.0	184.9	185.9	185.9
52.5°	210.2	202.1	189.0	173.8	167.7	161.7	154.6	147.5	144.5	143.5	143.5
55°	180.9	171.8	158.6	141.5	136.4	129.3	120.2	112.2	108.1	107.1	109.1
57.5°	154.6	146.5	131.4	114.2	108.1	101.0	92.0	84.9	79.8	78.8	79.8
60°	133.4	122.3	109.1	93.0	84.9	78.8	68.7	62.7	57.6	55.6	56.6
62.5°	112.2	102.1	88.9	72.8	66.7	60.6	51.5	44.5	40.4	39.4	40.4
65°	96.0	85.9	73.8	59.6	53.6	47.5	39.4	32.3	29.3	28.3	29.3
67.5°	79.8	70.7	60.6	47.5	42.4	37.4	29.3	24.3	20.2	19.2	20.2
70°	64.7	56.6	46.5	37.4	32.3	28.3	22.2	17.2	14.1	13.1	14.1
72.5°	48.5	42.4	35.4	27.3	24.3	21.2	16.2	12.1	10.1	9.1	10.1
75°	35.4	30.3	25.3	19.2	17.2	15.2	11.1	8.1	7.1	6.1	7.1
77.5°	24.3	21.2	17.2	13.1	11.1	10.1	7.1	6.1	5.1	4.0	4.0
80°	16.2	14.1	11.1	9.1	8.1	7.1	5.1	4.0	3.0	3.0	3.0
82.5°	10.1	8.1	7.1	5.1	4.0	4.0	3.0	2.0	2.0	2.0	2.0
85°	6.1	5.1	4.0	3.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0
87.5°	3.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	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



TEST NUMBER: P252664

CATALOG NUMBER: LD6B15D010 EU6B10208040 6LBDW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	714.4	714.4	714.4	714.4	714.4	714.4	714.4	714.4	714.4	714.4	714.4
2.5°	714.4	712.4	712.4	713.4	714.4	715.4	713.4	712.4	712.4	715.4	713.4
5°	714.4	713.4	713.4	713.4	715.4	716.4	714.4	713.4	714.4	717.5	716.4
7.5°	717.5	715.4	716.4	716.4	717.5	719.5	717.5	716.4	717.5	720.5	718.5
10°	719.5	717.5	718.5	717.5	720.5	721.5	719.5	718.5	719.5	723.5	722.5
12.5°	720.5	719.5	719.5	718.5	721.5	722.5	720.5	719.5	720.5	723.5	722.5
15°	718.5	717.5	717.5	717.5	719.5	721.5	718.5	717.5	717.5	720.5	719.5
17.5°	714.4	712.4	712.4	712.4	713.4	714.4	711.4	710.4	709.4	712.4	711.4
20°	707.3	705.3	703.3	703.3	704.3	704.3	702.3	699.3	699.3	700.3	698.3
22.5°	694.2	693.2	691.2	690.2	692.2	691.2	687.1	684.1	683.1	684.1	682.1
25°	676.0	674.0	673.0	672.0	673.0	672.0	667.9	663.9	663.9	663.9	660.9
27.5°	650.8	648.7	647.7	647.7	648.7	646.7	642.7	638.6	636.6	636.6	633.6
30°	618.4	618.4	617.4	616.4	615.4	615.4	609.3	605.3	603.3	604.3	602.3
32.5°	579.0	578.0	577.0	574.0	575.0	574.0	568.9	565.9	562.8	560.8	559.8
35°	528.5	528.5	527.5	527.5	527.5	526.5	521.4	518.4	516.4	515.4	512.3
37.5°	472.9	471.9	470.9	470.9	470.9	470.9	467.9	464.8	464.8	463.8	461.8
40°	410.3	411.3	412.3	411.3	414.3	417.3	413.3	411.3	410.3	413.3	409.2
42.5°	349.6	348.6	353.7	354.7	354.7	359.7	360.7	361.8	360.7	362.8	362.8
45°	291.0	290.0	295.1	297.1	302.1	308.2	311.2	316.3	318.3	320.3	318.3
47.5°	235.4	239.5	243.5	248.6	252.6	262.7	268.8	273.8	275.9	278.9	278.9
50°	189.0	193.0	200.1	204.1	209.2	221.3	231.4	238.5	242.5	245.5	244.5
52.5°	145.5	152.6	161.7	165.7	172.8	186.9	198.1	206.1	211.2	214.2	215.2
55°	112.2	118.2	127.3	133.4	140.5	155.6	169.8	178.9	183.9	188.0	190.0
57.5°	82.9	89.9	100.0	105.1	113.2	130.4	142.5	153.6	159.7	164.7	165.7
60°	60.6	67.7	76.8	82.9	90.9	108.1	122.3	132.4	139.4	143.5	145.5
62.5°	43.5	50.5	59.6	65.7	72.8	87.9	102.1	112.2	119.2	124.3	127.3
65°	31.3	38.4	47.5	52.5	58.6	72.8	85.9	96.0	103.1	109.1	111.2
67.5°	23.2	28.3	36.4	41.4	47.5	58.6	69.7	78.8	85.9	90.9	93.0
70°	17.2	21.2	28.3	31.3	35.4	45.5	54.6	62.7	68.7	72.8	74.8
72.5°	12.1	15.2	20.2	23.2	26.3	34.4	41.4	47.5	51.5	55.6	57.6
75°	8.1	10.1	14.1	16.2	18.2	24.3	29.3	34.4	37.4	40.4	41.4
77.5°	5.1	7.1	10.1	11.1	13.1	16.2	20.2	23.2	25.3	27.3	29.3
80°	3.0	4.0	6.1	7.1	8.1	11.1	13.1	15.2	17.2	19.2	20.2
82.5°	2.0	3.0	4.0	4.0	5.1	6.1	8.1	10.1	11.1	12.1	13.1
85°	1.0	1.0	2.0	2.0	3.0	3.0	4.0	5.1	6.1	7.1	8.1
87.5°	1.0	1.0	1.0	1.0	2.0	2.0	3.0	3.0	3.0	4.0	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P252664

CATALOG NUMBER: LD6B15D010 EU6B10208040 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	714.4	714.4	714.4	714.4	714.4	714.4	714.4	714.4
2.5°	711.4	714.4	711.4	713.4	712.4	712.4	711.4	712.4
5°	714.4	718.5	714.4	717.5	715.4	715.4	715.4	716.4
7.5°	717.5	721.5	718.5	721.5	720.5	719.5	719.5	721.5
10°	720.5	723.5	721.5	724.5	723.5	722.5	722.5	724.5
12.5°	720.5	724.5	722.5	725.5	724.5	723.5	723.5	724.5
15°	717.5	722.5	719.5	722.5	721.5	720.5	720.5	722.5
17.5°	708.4	712.4	710.4	712.4	712.4	711.4	712.4	713.4
20°	696.2	699.3	697.2	699.3	699.3	697.2	698.3	699.3
22.5°	679.1	682.1	680.1	682.1	681.1	680.1	680.1	679.1
25°	657.8	661.9	658.8	660.9	658.8	656.8	656.8	657.8
27.5°	631.6	634.6	630.5	632.6	630.5	628.5	628.5	627.5
30°	597.2	598.2	595.2	597.2	595.2	594.2	592.1	592.1
32.5°	555.8	556.8	553.8	553.8	551.7	551.7	547.7	550.7
35°	507.3	508.3	507.3	506.3	503.2	502.2	501.2	501.2
37.5°	456.7	456.7	453.7	452.7	450.7	448.7	449.7	446.6
40°	405.2	404.2	401.2	402.2	401.2	398.1	397.1	396.1
42.5°	356.7	356.7	353.7	354.7	352.7	351.7	348.6	349.6
45°	314.3	314.3	311.2	311.2	310.2	307.2	308.2	306.2
47.5°	275.9	275.9	274.9	274.9	271.8	270.8	270.8	270.8
50°	242.5	242.5	242.5	242.5	241.5	240.5	239.5	240.5
52.5°	214.2	216.2	215.2	215.2	214.2	213.2	212.2	212.2
55°	189.0	190.0	190.0	191.0	190.0	189.0	190.0	189.0
57.5°	166.7	168.8	168.8	168.8	168.8	168.8	167.7	166.7
60°	147.5	148.5	148.5	149.6	149.6	149.6	148.5	148.5
62.5°	128.3	130.4	131.4	131.4	132.4	131.4	131.4	131.4
65°	113.2	115.2	116.2	115.2	116.2	116.2	115.2	115.2
67.5°	95.0	97.0	97.0	97.0	97.0	98.0	97.0	97.0
70°	76.8	78.8	77.8	78.8	78.8	78.8	78.8	78.8
72.5°	58.6	59.6	60.6	60.6	61.6	60.6	60.6	60.6
75°	42.4	44.5	44.5	44.5	44.5	45.5	45.5	45.5
77.5°	30.3	31.3	31.3	32.3	32.3	32.3	32.3	33.3
80°	21.2	21.2	22.2	22.2	23.2	23.2	23.2	23.2
82.5°	14.1	15.2	15.2	15.2	15.2	15.2	15.2	15.2
85°	8.1	9.1	9.1	9.1	9.1	10.1	10.1	10.1
87.5°	5.1	5.1	5.1	5.1	5.1	5.1	4.0	4.0
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)