

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: P252355

Luminaire Tested: **LD6B15D010 EU6B10209027 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252355
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: LD6B15D010 EU6B10209027 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1089.0 lumens
Efficiency: N/A
Efficacy: 75.7 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

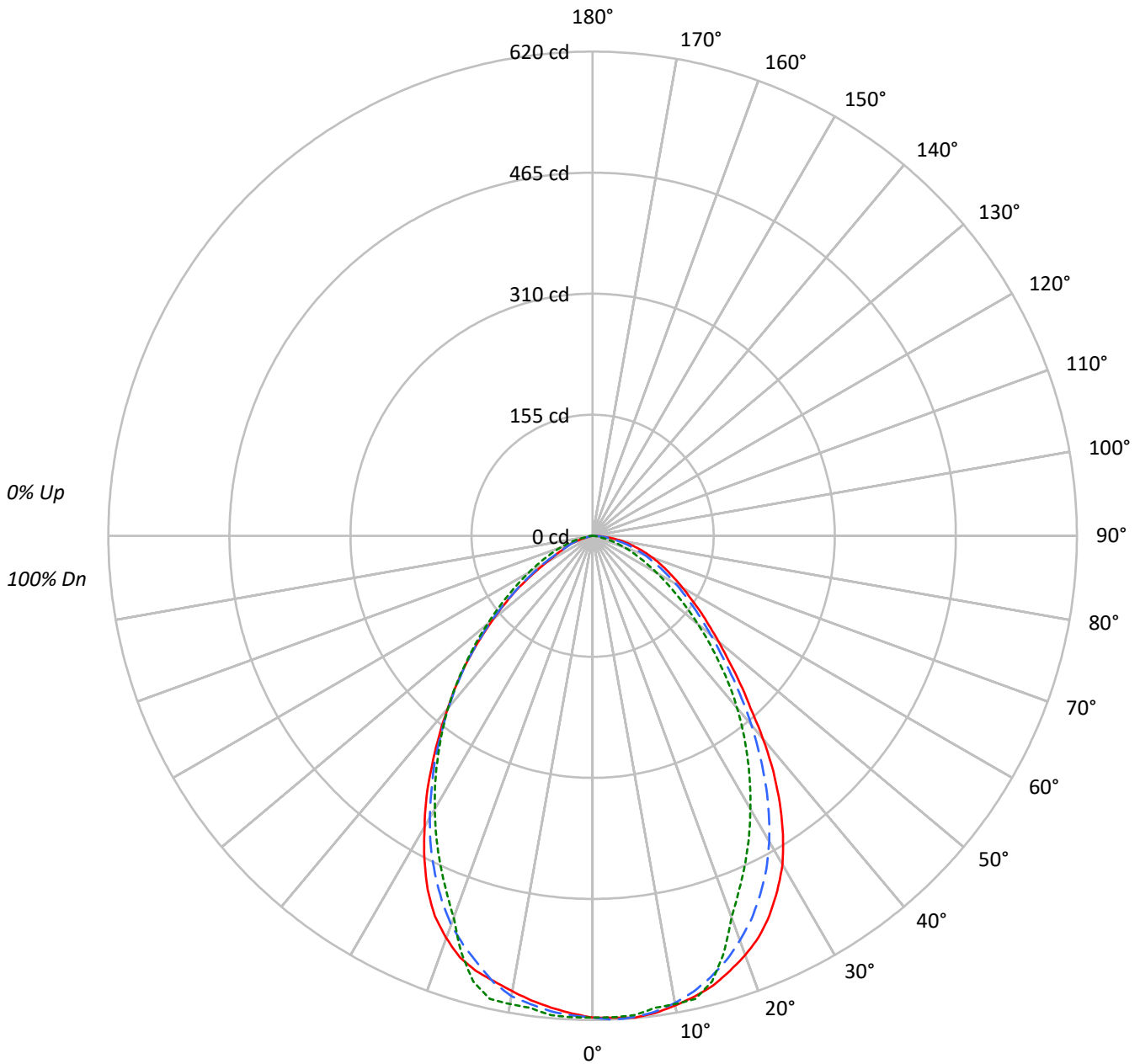
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	40253	40253	40253
5°	40564	40355	39726
10°	40450	40344	39232
15°	40269	39890	38972
20°	39671	36109	38053
25°	38591	33286	35993
30°	36642	30427	32416
35°	33251	27509	28529
40°	28871	24502	24570
45°	24616	21073	20852
50°	21314	17813	16838
55°	19052	14855	13035
60°	17354	12344	8781
65°	16209	10142	6561
70°	15432	8260	5494
75°	14544	5848	1815
80°	13864	3006	601
85°	11378	1797	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	5.4
10°-20°	163.0	15.0
20°-30°	225.0	20.7
30°-40°	228.9	21.0
40°-50°	184.0	16.9
50°-60°	122.3	11.2
60°-70°	69.7	6.4
70°-80°	31.3	2.9
80°-90°	6.6	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°	446.2	41.0
0°-40°	675.1	62.0
0°-60°	981.4	90.1
0°-90°	1089.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1089.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	617	617	617	617	617	
5°	619	619	616	611	607	59
15°	596	585	591	567	577	168
25°	536	507	462	478	500	246
35°	418	385	345	352	358	259
45°	267	251	228	226	226	207
55°	168	156	131	116	115	150
65°	105	94	66	42	42	105
75°	58	48	23	10	7	62
85°	15	10	2	1	0	18
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°	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
2.5°	617.8	621.0	620.2	619.4	620.2	619.4	617.8	617.8	616.2	616.2	620.2
5°	619.4	621.0	620.2	619.4	619.4	620.2	617.0	617.0	615.4	614.6	618.6
7.5°	616.2	618.6	617.0	617.0	616.2	617.0	613.8	613.8	611.4	610.6	614.6
10°	610.6	613.8	612.2	612.2	612.2	610.6	609.0	608.2	605.8	605.0	607.4
12.5°	604.2	606.6	605.8	604.2	604.2	604.2	601.0	600.2	597.0	595.4	597.8
15°	596.2	597.8	597.0	596.2	594.6	594.6	591.4	589.8	586.6	583.4	585.0
17.5°	584.2	586.6	585.0	584.2	581.8	581.8	578.6	577.0	572.2	569.0	569.8
20°	571.4	572.2	571.4	569.8	567.4	566.6	563.3	560.1	556.1	552.1	551.3
22.5°	556.1	556.9	554.5	552.9	550.5	549.7	545.7	543.3	536.9	532.1	531.3
25°	536.1	536.9	536.9	532.9	531.3	529.7	525.7	521.7	516.1	509.7	507.3
27.5°	512.1	514.5	512.9	508.9	505.6	504.8	500.8	497.6	490.4	484.8	481.6
30°	486.4	485.6	484.8	482.4	477.6	476.8	472.8	468.8	463.2	456.0	452.0
32.5°	453.6	453.6	452.8	450.4	445.5	443.9	440.7	435.9	429.5	423.9	419.9
35°	417.5	418.3	417.5	412.7	409.5	407.9	406.3	400.7	395.1	388.7	385.4
37.5°	379.8	377.4	378.2	374.2	370.2	371.8	367.0	364.6	358.2	353.4	350.2
40°	339.0	340.6	337.4	335.8	333.4	331.0	331.0	326.9	323.7	318.1	316.5
42.5°	298.9	301.3	300.5	298.9	295.7	296.5	292.5	290.9	286.9	284.5	282.1
45°	266.8	266.8	266.8	265.2	264.4	262.8	260.4	258.0	255.6	252.4	250.8
47.5°	235.6	235.6	236.4	234.8	233.2	232.4	230.8	230.8	226.8	223.6	222.0
50°	210.0	210.0	210.0	208.3	206.7	206.7	205.1	203.5	201.1	198.7	197.1
52.5°	186.7	186.7	186.7	185.1	184.3	183.5	182.7	181.9	178.7	177.1	175.5
55°	167.5	166.7	166.7	165.9	164.3	164.3	163.5	161.9	159.5	157.1	156.3
57.5°	148.2	149.1	148.2	148.2	146.6	146.6	145.0	144.2	141.8	140.2	138.6
60°	133.0	133.0	133.0	132.2	130.6	131.4	129.8	129.0	126.6	124.2	122.6
62.5°	117.8	118.6	118.6	117.8	116.2	116.2	115.4	114.6	112.2	109.8	107.4
65°	105.0	105.0	105.0	104.2	103.4	103.4	102.6	101.8	99.4	96.2	93.8
67.5°	93.0	92.2	92.2	92.2	91.4	90.6	89.8	88.9	86.5	84.1	80.9
70°	80.9	80.9	80.9	80.1	78.5	79.3	78.5	77.7	75.3	72.9	70.5
72.5°	69.7	69.7	68.9	68.1	68.1	67.3	67.3	66.5	64.1	60.9	58.5
75°	57.7	57.7	57.7	57.7	56.1	56.9	55.3	54.5	52.9	50.5	48.1
77.5°	47.3	47.3	47.3	46.5	45.7	45.7	44.9	44.1	41.7	40.1	36.9
80°	36.9	36.9	36.9	36.9	36.1	35.3	34.5	33.7	32.1	29.6	27.2
82.5°	27.2	27.2	26.4	26.4	26.4	25.6	24.8	24.0	22.4	20.8	19.2
85°	15.2	16.0	16.0	14.4	15.2	14.4	14.4	12.8	12.8	11.2	10.4
87.5°	5.6	4.8	4.8	4.8	4.8	4.8	4.8	4.0	4.0	4.0	3.2
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°	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
2.5°	617.0	616.2	619.4	619.4	614.6	617.0	617.8	616.2	616.2	617.0	614.6
5°	615.4	613.8	617.0	617.8	613.0	615.4	616.2	614.6	615.4	616.2	613.0
7.5°	609.8	609.8	612.2	613.0	608.2	610.6	610.6	609.0	609.8	609.8	607.4
10°	604.2	601.8	604.2	604.2	600.2	601.0	602.6	601.8	605.0	609.0	609.0
12.5°	593.8	591.4	595.4	595.4	593.0	596.2	600.2	602.6	605.8	607.4	602.6
15°	581.0	581.8	589.0	594.6	592.2	597.0	601.0	599.4	595.4	590.6	583.4
17.5°	564.1	561.7	568.2	571.4	568.2	569.8	573.0	569.8	563.3	559.3	549.7
20°	544.9	538.5	538.5	536.9	531.3	531.3	530.5	524.9	522.5	520.1	516.1
22.5°	523.3	516.1	513.7	508.9	504.0	503.2	500.8	495.2	492.0	490.4	485.6
25°	498.4	492.0	488.0	483.2	476.0	474.4	472.0	466.4	464.8	462.4	458.4
27.5°	472.8	464.8	459.2	454.4	448.0	447.2	442.3	438.3	435.1	433.5	430.3
30°	443.1	434.3	430.3	423.9	419.1	417.5	413.5	407.9	405.5	403.9	401.5
32.5°	410.3	403.1	399.1	393.5	387.1	387.9	383.0	378.2	376.6	375.0	372.6
35°	378.2	371.0	366.2	361.4	357.4	355.8	352.6	348.6	346.2	345.4	343.8
37.5°	343.0	337.4	333.4	328.6	325.3	323.7	322.1	318.1	316.5	316.5	313.3
40°	308.5	303.7	300.5	298.1	294.1	293.3	291.7	289.3	288.5	287.7	285.3
42.5°	277.3	270.9	268.5	266.8	264.4	262.8	262.0	260.4	259.6	258.8	256.4
45°	247.6	242.0	239.6	238.0	235.6	234.8	234.0	231.6	230.0	228.4	227.6
47.5°	218.8	214.8	214.0	210.0	208.3	206.7	205.1	203.5	202.7	201.9	198.7
50°	193.9	191.5	187.5	185.1	183.5	182.7	179.5	177.1	176.3	175.5	173.1
52.5°	171.5	168.3	165.9	161.9	161.1	159.5	157.9	154.7	153.1	152.3	149.9
55°	151.5	149.1	145.8	142.6	140.2	139.4	137.0	133.8	132.2	130.6	129.0
57.5°	134.6	130.6	127.4	124.2	122.6	120.2	117.8	116.2	113.8	111.4	109.0
60°	118.6	115.4	111.4	108.2	106.6	105.0	101.8	99.4	97.0	94.6	92.2
62.5°	103.4	100.2	96.2	93.0	91.4	89.8	86.5	84.1	81.7	79.3	76.1
65°	89.8	86.5	83.3	80.1	78.5	76.9	73.7	70.5	68.1	65.7	62.5
67.5°	78.5	74.5	71.3	68.1	66.5	64.9	61.7	59.3	56.1	53.7	50.5
70°	66.5	63.3	60.9	57.7	56.1	54.5	51.3	48.1	45.7	43.3	40.1
72.5°	56.1	52.1	49.7	46.5	44.9	44.1	40.9	38.5	36.1	32.9	30.5
75°	44.9	41.7	38.5	36.1	34.5	33.7	30.5	28.0	25.6	23.2	20.8
77.5°	34.5	32.1	28.8	26.4	24.8	24.0	20.8	18.4	16.0	14.4	12.0
80°	25.6	22.4	20.8	18.4	17.6	16.0	14.4	12.0	10.4	8.0	6.4
82.5°	17.6	15.2	13.6	12.0	11.2	10.4	8.8	7.2	5.6	4.8	4.0
85°	9.6	8.0	7.2	6.4	5.6	5.6	4.8	4.0	3.2	2.4	1.6
87.5°	3.2	2.4	2.4	2.4	2.4	1.6	1.6	1.6	0.8	0.8	0.8
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°	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
2.5°	616.2	616.2	616.2	615.4	615.4	615.4	614.6	617.8	614.6	613.8	616.2
5°	615.4	613.8	613.8	613.8	613.8	613.0	612.2	613.8	611.4	610.6	610.6
7.5°	610.6	609.8	609.8	609.0	608.2	607.4	606.6	607.4	605.0	604.2	604.2
10°	611.4	609.8	609.8	607.4	605.8	603.4	601.0	601.8	598.6	596.2	596.2
12.5°	601.8	597.8	595.4	593.0	591.4	590.6	587.4	589.0	585.8	585.0	585.0
15°	580.2	575.4	571.4	569.8	569.8	568.2	565.8	569.0	567.4	568.2	572.2
17.5°	546.5	544.1	541.7	540.9	541.7	543.3	544.9	549.7	549.7	552.1	556.1
20°	516.9	515.3	516.9	516.9	517.7	520.9	524.1	528.1	529.7	532.1	537.7
22.5°	488.0	488.0	489.6	492.0	491.2	496.8	497.6	504.8	504.8	509.7	514.5
25°	460.0	460.0	461.6	462.4	464.0	467.2	470.4	476.0	477.6	482.4	486.4
27.5°	432.7	431.9	431.9	432.7	434.3	438.3	439.9	446.3	448.8	452.0	456.0
30°	402.3	401.5	403.1	404.7	403.9	407.9	410.3	415.1	416.7	419.9	423.1
32.5°	373.4	373.4	373.4	375.0	375.0	378.2	378.2	383.8	383.8	386.2	389.5
35°	343.8	343.8	344.6	345.4	346.2	347.0	347.8	351.0	351.8	352.6	354.2
37.5°	315.7	314.9	315.7	315.7	314.1	317.3	317.3	320.5	318.1	320.5	321.3
40°	286.9	286.9	286.1	286.1	286.1	287.7	286.1	288.5	286.9	288.5	287.7
42.5°	257.2	257.2	255.6	257.2	256.4	256.4	256.4	258.0	255.6	257.2	258.0
45°	227.6	226.8	226.8	226.0	226.0	226.0	226.8	226.8	226.0	227.6	227.6
47.5°	198.7	197.9	197.9	197.9	197.9	198.7	196.3	197.9	196.3	196.3	196.3
50°	173.9	173.1	172.3	171.5	170.7	170.7	169.9	169.9	168.3	167.5	166.7
52.5°	149.9	149.1	147.4	147.4	146.6	145.8	143.4	143.4	141.0	140.2	140.2
55°	128.2	125.8	125.0	123.4	123.4	121.8	120.2	118.6	116.2	114.6	114.6
57.5°	108.2	105.8	104.2	103.4	102.6	101.0	97.8	97.0	93.8	93.0	92.2
60°	90.6	88.1	85.7	84.1	83.3	80.9	77.7	76.1	74.5	72.1	69.7
62.5°	73.7	71.3	68.1	67.3	65.7	63.3	60.9	58.5	56.9	54.5	52.9
65°	59.3	56.9	54.5	52.9	51.3	48.9	46.5	44.1	42.5	41.7	40.9
67.5°	48.1	44.9	42.5	41.7	40.1	38.5	36.1	35.3	33.7	33.7	33.7
70°	37.7	35.3	32.9	32.1	31.3	29.6	28.0	28.0	28.0	28.0	28.0
72.5°	28.0	26.4	24.0	23.2	22.4	21.6	20.0	20.8	20.0	20.0	20.0
75°	17.6	16.0	14.4	13.6	12.8	12.0	11.2	10.4	9.6	8.8	8.8
77.5°	9.6	8.0	7.2	6.4	6.4	5.6	4.8	4.8	4.0	4.0	4.0
80°	5.6	4.8	4.0	3.2	3.2	2.4	2.4	2.4	2.4	1.6	1.6
82.5°	3.2	2.4	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8
85°	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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°	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
2.5°	612.2	614.6	612.2	614.6	614.6	614.6	614.6	612.2
5°	608.2	609.8	607.4	609.0	609.8	609.0	609.0	606.6
7.5°	601.0	602.6	600.2	602.6	603.4	602.6	601.8	600.2
10°	593.8	594.6	592.2	593.8	595.4	595.4	594.6	592.2
12.5°	582.6	585.0	582.6	584.2	585.8	586.6	586.6	584.2
15°	569.8	573.8	572.2	574.6	577.0	577.8	577.8	577.0
17.5°	556.9	560.9	558.5	562.5	564.9	566.6	567.4	565.8
20°	538.5	543.3	541.7	544.9	548.1	550.5	550.5	548.1
22.5°	514.5	520.9	520.1	522.5	526.5	527.3	528.9	527.3
25°	488.0	492.8	492.0	494.4	499.2	499.2	500.0	500.0
27.5°	457.6	462.4	461.6	463.2	466.4	467.2	468.0	466.4
30°	424.7	427.1	427.1	429.5	431.9	432.7	432.7	430.3
32.5°	388.7	391.9	393.5	392.7	395.1	396.7	395.9	395.9
35°	355.8	356.6	357.4	358.2	359.0	360.6	359.0	358.2
37.5°	320.5	322.9	321.3	322.9	324.5	323.7	322.9	322.9
40°	288.5	289.3	287.7	289.3	290.1	290.1	290.1	288.5
42.5°	256.4	258.0	256.4	258.0	258.0	258.0	258.0	257.2
45°	224.4	226.0	226.0	226.8	226.8	226.0	226.0	226.0
47.5°	194.7	196.3	194.7	196.3	197.1	195.5	195.5	195.5
50°	166.7	165.9	165.9	166.7	166.7	166.7	166.7	165.9
52.5°	137.8	138.6	138.6	138.6	139.4	138.6	139.4	139.4
55°	113.0	113.0	113.0	113.8	113.0	113.0	113.8	114.6
57.5°	90.6	89.8	88.9	88.9	89.8	88.9	88.9	88.9
60°	69.7	68.9	68.1	68.1	68.1	68.1	68.1	67.3
62.5°	52.1	52.1	52.1	52.9	52.9	52.9	52.9	53.7
65°	41.7	41.7	41.7	41.7	41.7	41.7	41.7	42.5
67.5°	33.7	33.7	33.7	34.5	34.5	34.5	34.5	34.5
70°	28.0	28.0	28.8	28.0	28.8	28.8	28.8	28.8
72.5°	19.2	19.2	19.2	19.2	19.2	18.4	19.2	18.4
75°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	7.2
77.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	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)