

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: P252455

Luminaire Tested: **LD6B15D010 EU6B10208035 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B15D010 EU6B10208035 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1276.1 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

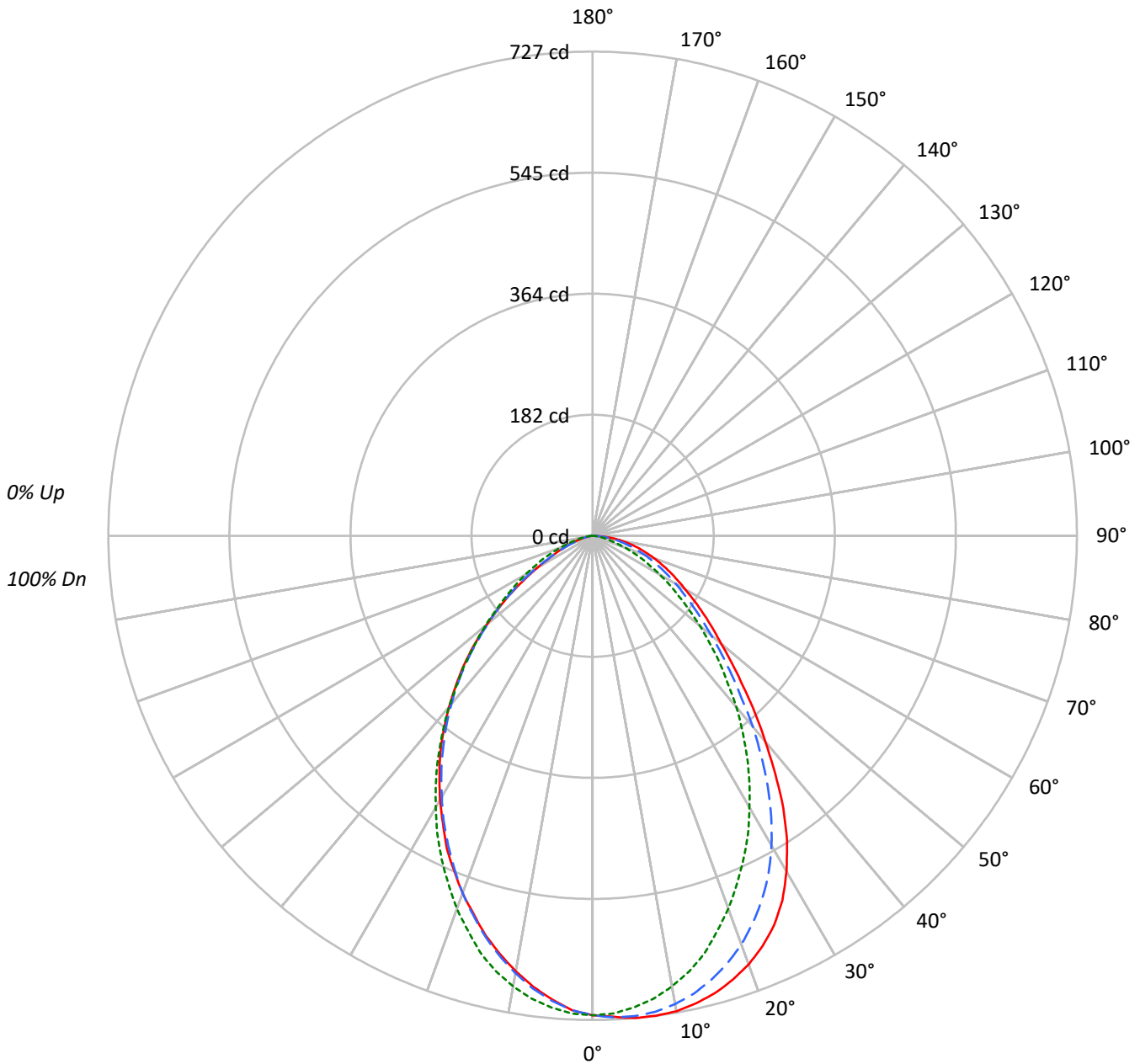
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88																			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77																			
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67																			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59																			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53																			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47																			
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43																			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39																			
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35																			
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	46967	46967	46967
5°	47605	46557	45771
10°	48023	45505	43981
15°	48016	43828	41937
20°	47551	41372	39636
25°	46423	38577	37281
30°	43836	35474	34495
35°	39734	32168	31770
40°	34313	28607	28522
45°	29423	24902	25087
50°	25567	21314	21010
55°	22976	17971	16834
60°	20877	15136	12396
65°	19605	12504	9108
70°	18694	9728	6676
75°	17897	7058	4537
80°	16907	4884	3006
85°	14971	2994	1497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.3	5.3
10°-20°	184.4	14.5
20°-30°	256.0	20.1
30°-40°	265.2	20.8
40°-50°	217.9	17.1
50°-60°	149.8	11.7
60°-70°	86.1	6.7
70°-80°	39.6	3.1
80°-90°	9.6	0.8
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°	507.8	39.8
0°-40°	773.0	60.6
0°-60°	1140.7	89.4
0°-90°	1276.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1276.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	720	720	720	720	720	
5°	727	724	711	701	699	69
15°	711	690	649	623	621	200
25°	645	602	536	513	518	295
35°	499	458	404	392	399	309
45°	319	295	270	267	272	248
55°	202	183	158	149	148	182
65°	127	111	81	57	59	126
75°	71	56	28	18	18	75
85°	20	14	4	2	2	22
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°	719.9	719.9	719.9	719.9	719.9	719.9	719.9	719.9	719.9	719.9	719.9
2.5°	722.9	728.9	724.9	723.9	725.9	725.9	725.9	722.9	724.9	721.9	723.9
5°	726.9	731.9	727.9	725.9	727.9	728.9	725.9	723.9	726.9	722.9	723.9
7.5°	726.9	731.9	727.9	726.9	727.9	727.9	726.9	722.9	724.9	720.9	720.9
10°	724.9	728.9	724.9	722.9	723.9	722.9	722.9	717.9	718.9	713.9	713.9
12.5°	718.9	723.9	718.9	716.9	716.9	716.9	713.9	709.9	710.9	704.9	703.9
15°	710.9	714.9	709.9	707.9	707.9	706.9	704.9	698.9	698.9	692.9	689.9
17.5°	698.9	702.9	698.9	695.9	694.9	692.9	690.9	684.9	682.9	675.9	672.9
20°	684.9	687.9	683.9	680.9	678.9	676.9	672.9	666.9	664.9	657.9	652.9
22.5°	666.9	670.9	664.9	661.9	659.9	656.9	652.9	646.9	643.9	634.9	628.9
25°	644.9	646.9	641.9	638.9	634.9	632.9	629.9	621.9	618.9	608.9	601.9
27.5°	616.9	618.9	612.9	610.9	605.9	603.9	599.9	592.9	588.9	578.9	571.9
30°	581.9	583.9	579.9	576.9	572.9	568.9	565.9	558.9	552.9	542.9	536.9
32.5°	542.9	545.9	541.9	537.9	530.9	531.9	526.9	519.9	514.9	505.9	498.9
35°	498.9	500.9	495.9	494.9	490.9	486.9	481.9	476.9	473.9	463.9	457.9
37.5°	449.9	454.9	449.9	445.9	443.9	440.9	437.9	430.9	428.9	422.9	414.9
40°	402.9	405.9	402.9	398.9	395.9	395.9	391.9	387.9	382.9	376.9	373.9
42.5°	360.9	358.9	357.9	355.9	351.9	350.9	349.9	344.9	341.9	335.9	330.9
45°	318.9	319.9	317.9	316.9	313.9	311.9	309.9	305.9	304.9	298.9	294.9
47.5°	283.9	282.9	280.9	280.9	278.9	276.9	274.9	271.9	270.9	265.9	261.9
50°	251.9	252.9	251.9	250.9	247.9	246.9	244.9	243.0	241.0	236.0	232.0
52.5°	226.0	225.0	224.0	224.0	221.0	220.0	218.0	216.0	214.0	209.0	206.0
55°	202.0	202.0	201.0	200.0	197.0	196.0	195.0	193.0	190.0	186.0	183.0
57.5°	180.0	180.0	179.0	178.0	176.0	176.0	174.0	172.0	170.0	166.0	162.0
60°	160.0	161.0	160.0	159.0	157.0	157.0	156.0	153.0	152.0	147.0	144.0
62.5°	143.0	143.0	143.0	142.0	141.0	139.0	139.0	136.0	134.0	131.0	127.0
65°	127.0	127.0	127.0	126.0	124.0	123.0	122.0	120.0	118.0	115.0	111.0
67.5°	112.0	112.0	112.0	111.0	109.0	108.0	107.0	106.0	103.0	100.0	96.0
70°	98.0	98.0	97.0	96.0	95.0	94.0	93.0	91.0	89.0	85.0	82.0
72.5°	84.0	84.0	84.0	82.0	81.0	81.0	79.0	78.0	76.0	72.0	69.0
75°	71.0	70.0	70.0	69.0	68.0	67.0	66.0	65.0	62.0	60.0	56.0
77.5°	58.0	58.0	57.0	56.0	56.0	55.0	54.0	52.0	51.0	48.0	45.0
80°	45.0	45.0	45.0	45.0	44.0	43.0	43.0	41.0	40.0	37.0	35.0
82.5°	34.0	33.0	33.0	33.0	32.0	31.0	31.0	30.0	29.0	27.0	25.0
85°	20.0	19.0	19.0	19.0	18.0	18.0	17.0	17.0	16.0	14.0	14.0
87.5°	6.0	6.0	7.0	7.0	6.0	6.0	6.0	6.0	6.0	5.0	5.0
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°	719.9	719.9	719.9	719.9	719.9	719.9	719.9	719.9	719.9	719.9	719.9
2.5°	721.9	724.9	720.9	719.9	723.9	721.9	720.9	718.9	719.9	717.9	714.9
5°	720.9	724.9	719.9	716.9	721.9	718.9	716.9	714.9	714.9	710.9	708.9
7.5°	717.9	719.9	714.9	711.9	714.9	711.9	709.9	706.9	705.9	700.9	697.9
10°	709.9	711.9	705.9	701.9	704.9	700.9	697.9	694.9	692.9	686.9	682.9
12.5°	698.9	699.9	692.9	687.9	689.9	686.9	681.9	677.9	675.9	669.9	664.9
15°	683.9	684.9	676.9	669.9	671.9	667.9	661.9	657.9	654.9	648.9	641.9
17.5°	665.9	664.9	655.9	648.9	649.9	644.9	638.9	632.9	628.9	621.9	616.9
20°	645.9	642.9	632.9	624.9	625.9	619.9	612.9	606.9	601.9	595.9	588.9
22.5°	620.9	616.9	607.9	597.9	598.9	593.9	583.9	578.9	573.9	565.9	559.9
25°	593.9	587.9	578.9	568.9	568.9	562.9	554.9	548.9	543.9	535.9	528.9
27.5°	561.9	558.9	546.9	538.9	537.9	531.9	524.9	517.9	511.9	504.9	497.9
30°	526.9	521.9	512.9	503.9	501.9	496.9	489.9	481.9	477.9	470.9	464.9
32.5°	489.9	484.9	474.9	465.9	464.9	460.9	454.9	446.9	442.9	437.9	433.9
35°	447.9	445.9	435.9	428.9	428.9	424.9	418.9	411.9	408.9	403.9	398.9
37.5°	407.9	404.9	395.9	389.9	389.9	384.9	378.9	375.9	372.9	368.9	365.9
40°	365.9	363.9	356.9	350.9	351.9	347.9	343.9	339.9	337.9	335.9	332.9
42.5°	326.9	324.9	319.9	314.9	314.9	311.9	307.9	304.9	302.9	299.9	298.9
45°	291.9	288.9	284.9	279.9	279.9	276.9	274.9	272.9	271.9	269.9	266.9
47.5°	257.9	255.9	251.9	246.9	246.9	246.9	243.0	240.0	240.0	238.0	237.0
50°	229.0	226.0	223.0	219.0	219.0	217.0	214.0	211.0	211.0	210.0	208.0
52.5°	202.0	200.0	196.0	192.0	192.0	190.0	187.0	186.0	185.0	182.0	181.0
55°	179.0	177.0	174.0	169.0	168.0	167.0	164.0	162.0	161.0	158.0	158.0
57.5°	158.0	156.0	151.0	148.0	147.0	145.0	142.0	140.0	139.0	137.0	135.0
60°	140.0	137.0	133.0	129.0	128.0	126.0	123.0	121.0	120.0	116.0	114.0
62.5°	123.0	120.0	116.0	112.0	111.0	109.0	105.0	103.0	101.0	97.0	95.0
65°	107.0	104.0	100.0	96.0	94.0	93.0	89.0	86.0	84.0	81.0	77.0
67.5°	92.0	89.0	85.0	80.0	80.0	77.0	74.0	71.0	68.0	65.0	62.0
70°	78.0	75.0	71.0	67.0	66.0	64.0	61.0	57.0	55.0	51.0	48.0
72.5°	65.0	62.0	58.0	54.0	53.0	51.0	48.0	44.0	41.0	38.0	35.0
75°	53.0	50.0	46.0	43.0	42.0	40.0	37.0	33.0	30.0	28.0	25.0
77.5°	42.0	39.0	36.0	33.0	32.0	30.0	27.0	25.0	22.0	20.0	17.0
80°	32.0	30.0	27.0	25.0	24.0	22.0	20.0	17.0	15.0	13.0	12.0
82.5°	23.0	21.0	19.0	16.0	16.0	14.0	13.0	11.0	9.0	8.0	7.0
85°	13.0	11.0	10.0	9.0	8.0	8.0	7.0	6.0	5.0	4.0	4.0
87.5°	4.0	4.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	719.9	719.9	719.9	719.9	719.9	719.9	719.9	719.9	719.9	719.9	719.9
2.5°	714.9	715.9	713.9	715.9	713.9	714.9	712.9	714.9	712.9	714.9	710.9
5°	707.9	707.9	704.9	706.9	704.9	705.9	701.9	702.9	700.9	702.9	698.9
7.5°	695.9	696.9	691.9	693.9	690.9	690.9	687.9	688.9	685.9	686.9	683.9
10°	681.9	680.9	675.9	677.9	673.9	673.9	670.9	670.9	666.9	667.9	663.9
12.5°	661.9	660.9	654.9	656.9	652.9	652.9	649.9	649.9	645.9	647.9	643.9
15°	638.9	637.9	631.9	632.9	628.9	628.9	624.9	625.9	622.9	624.9	620.9
17.5°	612.9	611.9	605.9	606.9	601.9	602.9	599.9	598.9	596.9	597.9	594.9
20°	585.9	583.9	577.9	578.9	576.9	573.9	571.9	572.9	570.9	572.9	569.9
22.5°	557.9	553.9	548.9	548.9	546.9	546.9	543.9	545.9	541.9	544.9	542.9
25°	525.9	522.9	518.9	520.9	516.9	516.9	513.9	514.9	512.9	514.9	512.9
27.5°	494.9	492.9	486.9	488.9	485.9	486.9	483.9	484.9	483.9	485.9	483.9
30°	461.9	460.9	456.9	456.9	455.9	454.9	453.9	453.9	452.9	455.9	453.9
32.5°	430.9	427.9	423.9	426.9	421.9	424.9	422.9	424.9	422.9	424.9	423.9
35°	398.9	397.9	392.9	393.9	392.9	392.9	391.9	391.9	391.9	394.9	394.9
37.5°	364.9	363.9	360.9	361.9	359.9	358.9	358.9	360.9	360.9	362.9	362.9
40°	331.9	332.9	329.9	329.9	328.9	328.9	328.9	330.9	329.9	331.9	330.9
42.5°	298.9	298.9	295.9	296.9	295.9	296.9	296.9	298.9	298.9	299.9	298.9
45°	267.9	267.9	266.9	267.9	265.9	266.9	265.9	267.9	266.9	267.9	267.9
47.5°	237.0	237.0	237.0	236.0	236.0	236.0	236.0	236.0	235.0	237.0	236.0
50°	208.0	209.0	208.0	208.0	207.0	208.0	207.0	207.0	205.0	206.0	206.0
52.5°	182.0	182.0	180.0	180.0	180.0	179.0	179.0	179.0	178.0	178.0	176.0
55°	157.0	157.0	155.0	155.0	154.0	153.0	152.0	152.0	149.0	149.0	146.0
57.5°	134.0	133.0	130.0	130.0	128.0	127.0	126.0	125.0	123.0	121.0	120.0
60°	113.0	111.0	109.0	108.0	106.0	104.0	102.0	100.0	98.0	97.0	96.0
62.5°	93.0	90.0	88.0	87.0	85.0	82.0	80.0	78.0	76.0	75.0	73.0
65°	75.0	72.0	69.0	68.0	66.0	64.0	61.0	59.0	57.0	56.0	56.0
67.5°	59.0	56.0	52.0	52.0	50.0	48.0	46.0	44.0	43.0	44.0	44.0
70°	44.0	42.0	39.0	38.0	36.0	34.0	33.0	33.0	33.0	34.0	33.0
72.5°	33.0	30.0	28.0	27.0	26.0	25.0	25.0	25.0	24.0	25.0	25.0
75°	23.0	21.0	19.0	19.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
77.5°	16.0	14.0	13.0	13.0	13.0	12.0	12.0	12.0	12.0	12.0	12.0
80°	10.0	10.0	9.0	9.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
82.5°	6.0	6.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
85°	3.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	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°	719.9	719.9	719.9	719.9	719.9	719.9	719.9	719.9
2.5°	710.9	713.9	709.9	712.9	711.9	710.9	708.9	712.9
5°	698.9	699.9	695.9	699.9	698.9	696.9	694.9	698.9
7.5°	681.9	684.9	679.9	683.9	682.9	680.9	678.9	682.9
10°	662.9	665.9	661.9	664.9	664.9	662.9	659.9	663.9
12.5°	641.9	643.9	639.9	643.9	642.9	640.9	639.9	642.9
15°	618.9	621.9	617.9	620.9	619.9	618.9	617.9	620.9
17.5°	593.9	596.9	593.9	596.9	596.9	593.9	592.9	594.9
20°	568.9	570.9	567.9	570.9	569.9	569.9	567.9	570.9
22.5°	540.9	543.9	541.9	543.9	542.9	542.9	541.9	543.9
25°	512.9	515.9	512.9	515.9	514.9	514.9	512.9	517.9
27.5°	484.9	486.9	483.9	487.9	486.9	484.9	485.9	486.9
30°	454.9	456.9	454.9	457.9	457.9	457.9	455.9	457.9
32.5°	424.9	427.9	424.9	427.9	426.9	426.9	425.9	427.9
35°	394.9	395.9	393.9	396.9	396.9	397.9	395.9	398.9
37.5°	363.9	364.9	363.9	364.9	366.9	363.9	365.9	366.9
40°	331.9	333.9	332.9	333.9	333.9	334.9	333.9	334.9
42.5°	299.9	301.9	299.9	302.9	301.9	301.9	302.9	302.9
45°	266.9	269.9	267.9	269.9	270.9	269.9	269.9	271.9
47.5°	236.0	238.0	237.0	238.0	238.0	238.0	238.0	240.0
50°	205.0	206.0	206.0	207.0	207.0	208.0	206.0	207.0
52.5°	174.0	176.0	176.0	176.0	175.0	176.0	176.0	176.0
55°	146.0	147.0	145.0	147.0	147.0	146.0	146.0	148.0
57.5°	119.0	119.0	119.0	119.0	119.0	118.0	119.0	119.0
60°	94.0	95.0	94.0	94.0	94.0	94.0	93.0	95.0
62.5°	73.0	73.0	72.0	73.0	73.0	73.0	74.0	74.0
65°	57.0	58.0	57.0	58.0	58.0	58.0	58.0	59.0
67.5°	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
70°	34.0	34.0	34.0	35.0	34.0	34.0	34.0	35.0
72.5°	25.0	25.0	25.0	25.0	25.0	25.0	26.0	26.0
75°	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
77.5°	12.0	12.0	12.0	13.0	12.0	13.0	12.0	12.0
80°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
82.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	2.0	2.0	2.0	2.0	1.0	1.0	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)