

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: P252478

Luminaire Tested: **LD6B20D010 EU6B10209730 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252478
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: LD6B20D010 EU6B10209730 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1292.0 lumens
Efficiency: N/A
Efficacy: 62.1 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

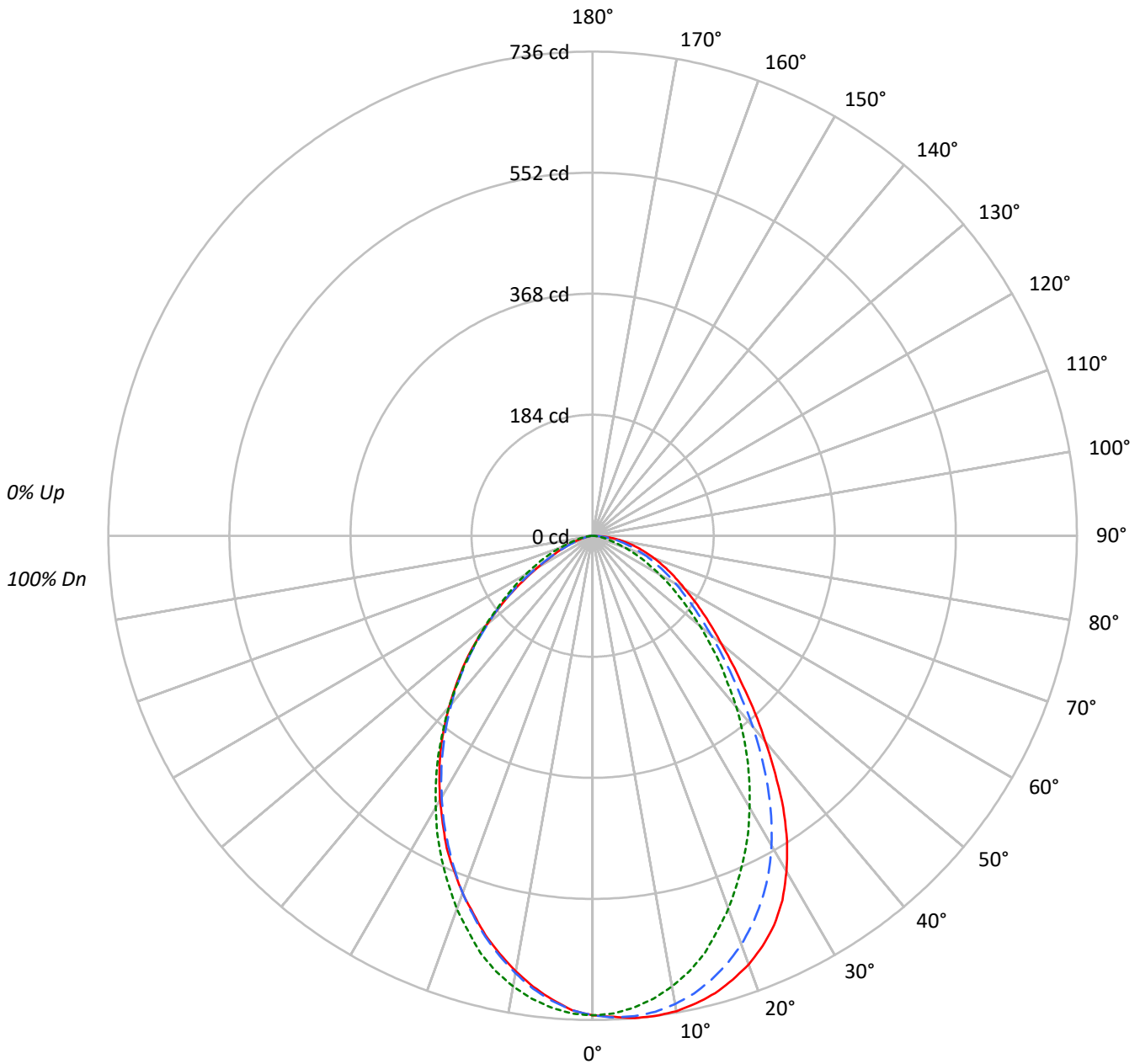
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	100	100	100
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88	88	88	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77	77	77	77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67	67	67	67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59	59	59	59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53	53	53	53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47	47	47	47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43	43	43	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39	39	39	39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35	35	35	35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33	33	33	33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	47554	47554	47554
5°	48201	47140	46341
10°	48619	46075	44531
15°	48617	44375	42464
20°	48141	41893	40129
25°	47006	39059	37749
30°	44386	35919	34925
35°	40236	32574	32168
40°	34748	28965	28880
45°	29792	25216	25410
50°	25892	21578	21274
55°	23261	18188	17039
60°	21138	15318	12552
65°	19852	12659	9216
70°	18922	9843	6753
75°	18124	7134	4588
80°	17132	4959	3043
85°	15121	2994	1497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	5.3
10°-20°	186.7	14.5
20°-30°	259.2	20.1
30°-40°	268.5	20.8
40°-50°	220.7	17.1
50°-60°	151.7	11.7
60°-70°	87.2	6.7
70°-80°	40.1	3.1
80°-90°	9.8	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°	514.1	39.8
0°-40°	782.7	60.6
0°-60°	1155.0	89.4
0°-90°	1292.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1292.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	729	729	729	729	729	
5°	736	733	720	710	708	70
15°	720	698	657	631	629	203
25°	653	609	543	519	524	299
35°	505	464	409	397	404	313
45°	323	299	273	270	275	252
55°	204	185	160	151	150	184
65°	129	112	82	58	60	128
75°	72	57	28	18	18	76
85°	20	14	4	2	2	23
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°	728.9	728.9	728.9	728.9	728.9	728.9	728.9	728.9	728.9	728.9	728.9
2.5°	731.9	738.0	733.9	732.9	735.0	735.0	735.0	731.9	733.9	730.9	732.9
5°	736.0	741.0	737.0	735.0	737.0	738.0	735.0	732.9	736.0	731.9	732.9
7.5°	736.0	741.0	737.0	736.0	737.0	737.0	736.0	731.9	733.9	729.9	729.9
10°	733.9	738.0	733.9	731.9	732.9	731.9	731.9	726.9	727.9	722.8	722.8
12.5°	727.9	732.9	727.9	725.8	725.8	725.8	722.8	718.8	719.8	713.7	712.7
15°	719.8	723.8	718.8	716.7	716.7	715.7	713.7	707.6	707.6	701.5	698.5
17.5°	707.6	711.7	707.6	704.6	703.6	701.5	699.5	693.4	691.4	684.3	681.3
20°	693.4	696.5	692.4	689.4	687.4	685.3	681.3	675.2	673.2	666.1	661.1
22.5°	675.2	679.3	673.2	670.2	668.1	665.1	661.1	655.0	651.9	642.8	636.8
25°	653.0	655.0	649.9	646.9	642.8	640.8	637.8	629.7	626.6	616.5	609.4
27.5°	624.6	626.6	620.6	618.5	613.5	611.4	607.4	600.3	596.3	586.1	579.1
30°	589.2	591.2	587.2	584.1	580.1	576.0	573.0	565.9	559.8	549.7	543.6
32.5°	549.7	552.7	548.7	544.6	537.5	538.6	533.5	526.4	521.4	512.2	505.2
35°	505.2	507.2	502.1	501.1	497.1	493.0	487.9	482.9	479.8	469.7	463.6
37.5°	455.5	460.6	455.5	451.5	449.5	446.4	443.4	436.3	434.3	428.2	420.1
40°	408.0	411.0	408.0	403.9	400.9	400.9	396.8	392.8	387.7	381.6	378.6
42.5°	365.5	363.4	362.4	360.4	356.3	355.3	354.3	349.3	346.2	340.1	335.1
45°	322.9	323.9	321.9	320.9	317.9	315.8	313.8	309.8	308.8	302.7	298.6
47.5°	287.5	286.5	284.5	284.5	282.4	280.4	278.4	275.4	274.3	269.3	265.2
50°	255.1	256.1	255.1	254.1	251.1	250.0	248.0	246.0	244.0	238.9	234.9
52.5°	228.8	227.8	226.8	226.8	223.7	222.7	220.7	218.7	216.6	211.6	208.5
55°	204.5	204.5	203.5	202.5	199.4	198.4	197.4	195.4	192.3	188.3	185.3
57.5°	182.2	182.2	181.2	180.2	178.2	178.2	176.1	174.1	172.1	168.0	164.0
60°	162.0	163.0	162.0	161.0	158.9	158.9	157.9	154.9	153.9	148.8	145.8
62.5°	144.8	144.8	144.8	143.8	142.7	140.7	140.7	137.7	135.7	132.6	128.6
65°	128.6	128.6	128.6	127.6	125.5	124.5	123.5	121.5	119.5	116.4	112.4
67.5°	113.4	113.4	113.4	112.4	110.3	109.3	108.3	107.3	104.3	101.2	97.2
70°	99.2	99.2	98.2	97.2	96.2	95.2	94.1	92.1	90.1	86.0	83.0
72.5°	85.0	85.0	85.0	83.0	82.0	82.0	80.0	79.0	76.9	72.9	69.9
75°	71.9	70.9	70.9	69.9	68.8	67.8	66.8	65.8	62.8	60.7	56.7
77.5°	58.7	58.7	57.7	56.7	56.7	55.7	54.7	52.6	51.6	48.6	45.6
80°	45.6	45.6	45.6	45.6	44.5	43.5	43.5	41.5	40.5	37.5	35.4
82.5°	34.4	33.4	33.4	33.4	32.4	31.4	31.4	30.4	29.4	27.3	25.3
85°	20.2	19.2	19.2	19.2	18.2	18.2	17.2	17.2	16.2	14.2	14.2
87.5°	6.1	6.1	7.1	7.1	6.1	6.1	6.1	6.1	6.1	5.1	5.1
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°	728.9	728.9	728.9	728.9	728.9	728.9	728.9	728.9	728.9	728.9	728.9
2.5°	730.9	733.9	729.9	728.9	732.9	730.9	729.9	727.9	728.9	726.9	723.8
5°	729.9	733.9	728.9	725.8	730.9	727.9	725.8	723.8	723.8	719.8	717.7
7.5°	726.9	728.9	723.8	720.8	723.8	720.8	718.8	715.7	714.7	709.6	706.6
10°	718.8	720.8	714.7	710.7	713.7	709.6	706.6	703.6	701.5	695.5	691.4
12.5°	707.6	708.6	701.5	696.5	698.5	695.5	690.4	686.4	684.3	678.3	673.2
15°	692.4	693.4	685.3	678.3	680.3	676.2	670.2	666.1	663.1	657.0	649.9
17.5°	674.2	673.2	664.1	657.0	658.0	653.0	646.9	640.8	636.8	629.7	624.6
20°	654.0	650.9	640.8	632.7	633.7	627.6	620.6	614.5	609.4	603.4	596.3
22.5°	628.7	624.6	615.5	605.4	606.4	601.3	591.2	586.1	581.1	573.0	566.9
25°	601.3	595.3	586.1	576.0	576.0	569.9	561.8	555.8	550.7	542.6	535.5
27.5°	568.9	565.9	553.7	545.6	544.6	538.6	531.5	524.4	518.3	511.2	504.1
30°	533.5	528.4	519.3	510.2	508.2	503.1	496.0	487.9	483.9	476.8	470.7
32.5°	496.0	491.0	480.9	471.7	470.7	466.7	460.6	452.5	448.5	443.4	439.4
35°	453.5	451.5	441.4	434.3	434.3	430.2	424.2	417.1	414.0	409.0	403.9
37.5°	413.0	410.0	400.9	394.8	394.8	389.7	383.7	380.6	377.6	373.6	370.5
40°	370.5	368.5	361.4	355.3	356.3	352.3	348.2	344.2	342.2	340.1	337.1
42.5°	331.0	329.0	323.9	318.9	318.9	315.8	311.8	308.8	306.7	303.7	302.7
45°	295.6	292.6	288.5	283.5	283.5	280.4	278.4	276.4	275.4	273.3	270.3
47.5°	261.2	259.2	255.1	250.0	250.0	250.0	246.0	243.0	243.0	240.9	239.9
50°	231.8	228.8	225.8	221.7	221.7	219.7	216.6	213.6	213.6	212.6	210.6
52.5°	204.5	202.5	198.4	194.4	194.4	192.3	189.3	188.3	187.3	184.2	183.2
55°	181.2	179.2	176.1	171.1	170.1	169.1	166.0	164.0	163.0	159.9	159.9
57.5°	159.9	157.9	152.9	149.8	148.8	146.8	143.8	141.7	140.7	138.7	136.7
60°	141.7	138.7	134.6	130.6	129.6	127.6	124.5	122.5	121.5	117.4	115.4
62.5°	124.5	121.5	117.4	113.4	112.4	110.3	106.3	104.3	102.2	98.2	96.2
65°	108.3	105.3	101.2	97.2	95.2	94.1	90.1	87.1	85.0	82.0	77.9
67.5°	93.1	90.1	86.0	81.0	81.0	77.9	74.9	71.9	68.8	65.8	62.8
70°	79.0	75.9	71.9	67.8	66.8	64.8	61.8	57.7	55.7	51.6	48.6
72.5°	65.8	62.8	58.7	54.7	53.7	51.6	48.6	44.5	41.5	38.5	35.4
75°	53.7	50.6	46.6	43.5	42.5	40.5	37.5	33.4	30.4	28.3	25.3
77.5°	42.5	39.5	36.4	33.4	32.4	30.4	27.3	25.3	22.3	20.2	17.2
80°	32.4	30.4	27.3	25.3	24.3	22.3	20.2	17.2	15.2	13.2	12.1
82.5°	23.3	21.3	19.2	16.2	16.2	14.2	13.2	11.1	9.1	8.1	7.1
85°	13.2	11.1	10.1	9.1	8.1	8.1	7.1	6.1	5.1	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°	728.9	728.9	728.9	728.9	728.9	728.9	728.9	728.9	728.9	728.9	728.9
2.5°	723.8	724.8	722.8	724.8	722.8	723.8	721.8	723.8	721.8	723.8	719.8
5°	716.7	716.7	713.7	715.7	713.7	714.7	710.7	711.7	709.6	711.7	707.6
7.5°	704.6	705.6	700.5	702.6	699.5	699.5	696.5	697.5	694.5	695.5	692.4
10°	690.4	689.4	684.3	686.4	682.3	682.3	679.3	679.3	675.2	676.2	672.2
12.5°	670.2	669.2	663.1	665.1	661.1	661.1	658.0	658.0	654.0	656.0	651.9
15°	646.9	645.9	639.8	640.8	636.8	636.8	632.7	633.7	630.7	632.7	628.7
17.5°	620.6	619.5	613.5	614.5	609.4	610.4	607.4	606.4	604.4	605.4	602.3
20°	593.2	591.2	585.1	586.1	584.1	581.1	579.1	580.1	578.0	580.1	577.0
22.5°	564.9	560.8	555.8	555.8	553.7	553.7	550.7	552.7	548.7	551.7	549.7
25°	532.5	529.4	525.4	527.4	523.4	523.4	520.3	521.4	519.3	521.4	519.3
27.5°	501.1	499.1	493.0	495.0	492.0	493.0	490.0	491.0	490.0	492.0	490.0
30°	467.7	466.7	462.6	462.6	461.6	460.6	459.6	459.6	458.6	461.6	459.6
32.5°	436.3	433.3	429.2	432.3	427.2	430.2	428.2	430.2	428.2	430.2	429.2
35°	403.9	402.9	397.8	398.9	397.8	397.8	396.8	396.8	396.8	399.9	399.9
37.5°	369.5	368.5	365.5	366.5	364.4	363.4	363.4	365.5	365.5	367.5	367.5
40°	336.1	337.1	334.1	334.1	333.1	333.1	333.1	335.1	334.1	336.1	335.1
42.5°	302.7	302.7	299.7	300.7	299.7	300.7	300.7	302.7	302.7	303.7	302.7
45°	271.3	271.3	270.3	271.3	269.3	270.3	269.3	271.3	270.3	271.3	271.3
47.5°	239.9	239.9	239.9	238.9	238.9	238.9	238.9	238.9	237.9	239.9	238.9
50°	210.6	211.6	210.6	210.6	209.6	210.6	209.6	209.6	207.5	208.5	208.5
52.5°	184.2	184.2	182.2	182.2	182.2	181.2	181.2	181.2	180.2	180.2	178.2
55°	158.9	158.9	156.9	156.9	155.9	154.9	153.9	153.9	150.8	150.8	147.8
57.5°	135.7	134.6	131.6	131.6	129.6	128.6	127.6	126.5	124.5	122.5	121.5
60°	114.4	112.4	110.3	109.3	107.3	105.3	103.3	101.2	99.2	98.2	97.2
62.5°	94.1	91.1	89.1	88.1	86.0	83.0	81.0	79.0	76.9	75.9	73.9
65°	75.9	72.9	69.9	68.8	66.8	64.8	61.8	59.7	57.7	56.7	56.7
67.5°	59.7	56.7	52.6	52.6	50.6	48.6	46.6	44.5	43.5	44.5	44.5
70°	44.5	42.5	39.5	38.5	36.4	34.4	33.4	33.4	33.4	34.4	33.4
72.5°	33.4	30.4	28.3	27.3	26.3	25.3	25.3	25.3	24.3	25.3	25.3
75°	23.3	21.3	19.2	19.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
77.5°	16.2	14.2	13.2	13.2	13.2	12.1	12.1	12.1	12.1	12.1	12.1
80°	10.1	10.1	9.1	9.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
82.5°	6.1	6.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
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°	728.9	728.9	728.9	728.9	728.9	728.9	728.9	728.9
2.5°	719.8	722.8	718.8	721.8	720.8	719.8	717.7	721.8
5°	707.6	708.6	704.6	708.6	707.6	705.6	703.6	707.6
7.5°	690.4	693.4	688.4	692.4	691.4	689.4	687.4	691.4
10°	671.2	674.2	670.2	673.2	673.2	671.2	668.1	672.2
12.5°	649.9	651.9	647.9	651.9	650.9	648.9	647.9	650.9
15°	626.6	629.7	625.6	628.7	627.6	626.6	625.6	628.7
17.5°	601.3	604.4	601.3	604.4	604.4	601.3	600.3	602.3
20°	576.0	578.0	575.0	578.0	577.0	577.0	575.0	578.0
22.5°	547.7	550.7	548.7	550.7	549.7	549.7	548.7	550.7
25°	519.3	522.4	519.3	522.4	521.4	521.4	519.3	524.4
27.5°	491.0	493.0	490.0	494.0	493.0	491.0	492.0	493.0
30°	460.6	462.6	460.6	463.6	463.6	463.6	461.6	463.6
32.5°	430.2	433.3	430.2	433.3	432.3	432.3	431.3	433.3
35°	399.9	400.9	398.9	401.9	401.9	402.9	400.9	403.9
37.5°	368.5	369.5	368.5	369.5	371.5	368.5	370.5	371.5
40°	336.1	338.1	337.1	338.1	338.1	339.1	338.1	339.1
42.5°	303.7	305.7	303.7	306.7	305.7	305.7	306.7	306.7
45°	270.3	273.3	271.3	273.3	274.3	273.3	273.3	275.4
47.5°	238.9	240.9	239.9	240.9	240.9	240.9	240.9	243.0
50°	207.5	208.5	208.5	209.6	209.6	210.6	208.5	209.6
52.5°	176.1	178.2	178.2	178.2	177.2	178.2	178.2	178.2
55°	147.8	148.8	146.8	148.8	148.8	147.8	147.8	149.8
57.5°	120.5	120.5	120.5	120.5	120.5	119.5	120.5	120.5
60°	95.2	96.2	95.2	95.2	95.2	95.2	94.1	96.2
62.5°	73.9	73.9	72.9	73.9	73.9	73.9	74.9	74.9
65°	57.7	58.7	57.7	58.7	58.7	58.7	58.7	59.7
67.5°	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
70°	34.4	34.4	34.4	35.4	34.4	34.4	34.4	35.4
72.5°	25.3	25.3	25.3	25.3	25.3	25.3	26.3	26.3
75°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
77.5°	12.1	12.1	12.1	13.2	12.1	13.2	12.1	12.1
80°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
82.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
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)