

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: P252559

Luminaire Tested: **LD6B15D010 EU6B10208035 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252559
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: LD6B15D010 EU6B10208035 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1498.0 lumens
Efficiency: N/A
Efficacy: 104.1 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

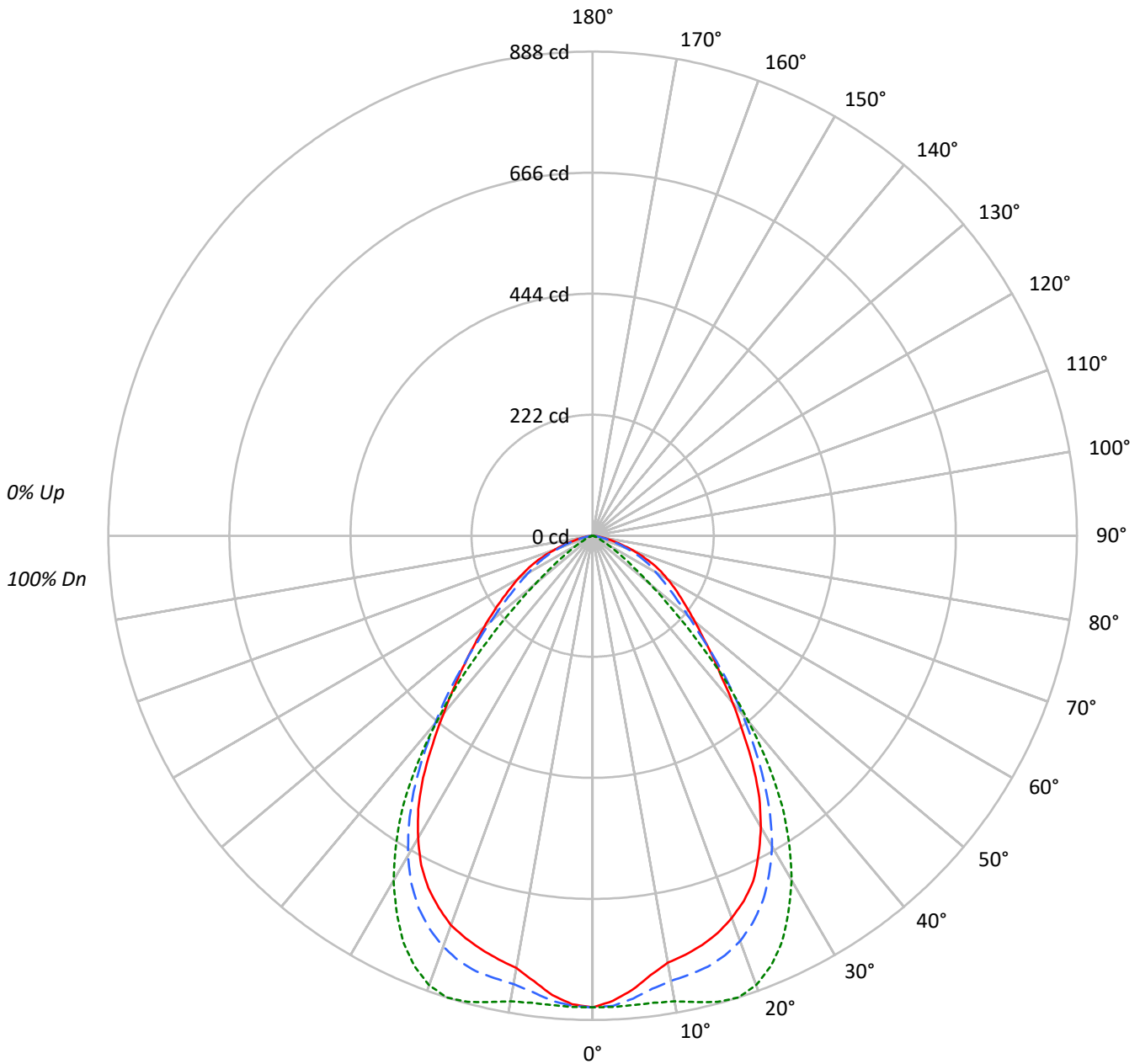
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	56427	56427	56427
5°	54743	56577	55398
10°	52660	57430	53322
15°	52473	59768	53081
20°	51786	60881	52758
25°	50238	59165	51318
30°	46473	54986	48206
35°	40770	48336	43159
40°	33973	37890	36187
45°	28602	25004	30539
50°	24765	13702	26288
55°	22407	7280	22976
60°	20616	3784	20616
65°	18679	2007	18216
70°	15069	1145	13925
75°	10335	756	9579
80°	6763	376	6011
85°	4491	749	3743



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	5.4
10°-20°	233.2	15.6
20°-30°	344.6	23.0
30°-40°	348.0	23.2
40°-50°	239.9	16.0
50°-60°	137.8	9.2
60°-70°	80.2	5.4
70°-80°	29.3	2.0
80°-90°	4.5	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°	658.4	44.0
0°-40°	1006.4	67.2
0°-60°	1384.1	92.4
0°-90°	1498.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1498.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	865	865	865	865	865	
5°	836	852	864	856	846	78
15°	777	818	885	827	786	219
25°	698	739	822	754	713	318
35°	512	547	607	572	542	318
45°	310	314	271	334	331	241
55°	197	173	64	180	202	177
65°	121	102	13	101	118	118
75°	41	33	3	32	38	46
85°	6	3	1	4	5	8
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°	864.9	864.9	864.9	864.9	864.9	864.9	864.9	864.9	864.9	864.9	864.9
2.5°	853.9	854.9	855.9	854.9	855.9	859.9	856.9	858.9	858.9	859.9	862.9
5°	835.9	835.9	837.9	836.9	839.9	843.9	840.9	843.9	844.9	846.9	851.9
7.5°	812.9	812.9	813.9	813.9	817.9	821.9	819.9	823.9	827.9	831.9	837.9
10°	794.9	796.9	796.9	797.9	801.9	806.9	805.9	810.9	814.9	820.9	828.9
12.5°	786.9	787.9	787.9	789.9	793.9	798.9	797.9	802.9	808.9	815.9	823.9
15°	776.9	778.9	777.9	779.9	783.9	788.9	787.9	792.9	799.9	806.9	817.9
17.5°	763.9	764.9	765.9	765.9	769.9	773.9	773.9	778.9	786.9	794.9	806.9
20°	745.9	747.9	747.9	748.9	751.9	757.9	756.9	761.9	769.9	777.9	790.9
22.5°	724.9	725.9	725.9	726.9	731.9	734.9	735.9	739.9	746.9	755.9	767.9
25°	697.9	698.9	697.9	700.9	702.9	708.9	706.9	711.9	719.9	726.9	738.9
27.5°	658.9	660.9	660.9	661.9	666.9	671.9	671.9	676.9	683.9	688.9	700.9
30°	616.9	619.9	616.9	621.9	623.9	627.9	630.9	633.9	639.9	646.9	657.9
32.5°	568.9	567.9	568.9	570.9	576.9	579.9	581.9	584.9	590.9	596.9	605.9
35°	511.9	513.9	514.9	518.9	518.9	523.9	524.9	526.9	535.9	539.9	546.9
37.5°	451.9	453.9	454.9	456.9	460.9	462.9	465.9	468.9	474.9	481.9	485.9
40°	398.9	398.9	399.9	401.9	404.9	405.9	408.9	412.9	416.9	422.9	426.9
42.5°	348.9	349.9	348.9	350.9	353.9	357.9	356.9	361.9	362.9	366.9	369.9
45°	310.0	310.0	308.0	310.0	310.0	314.0	313.0	315.0	314.0	316.0	314.0
47.5°	273.0	274.0	273.0	274.0	274.0	274.0	275.0	273.0	274.0	271.0	265.0
50°	244.0	245.0	243.0	244.0	243.0	242.0	243.0	240.0	239.0	235.0	229.0
52.5°	219.0	218.0	217.0	217.0	217.0	216.0	215.0	212.0	209.0	205.0	198.0
55°	197.0	196.0	195.0	195.0	193.0	192.0	192.0	189.0	186.0	181.0	173.0
57.5°	177.0	176.0	175.0	175.0	174.0	172.0	172.0	169.0	165.0	159.0	152.0
60°	158.0	158.0	158.0	157.0	157.0	155.0	155.0	152.0	148.0	142.0	134.0
62.5°	141.0	140.0	140.0	140.0	140.0	139.0	138.0	136.0	132.0	126.0	119.0
65°	121.0	121.0	121.0	121.0	120.0	120.0	120.0	117.0	115.0	109.0	102.0
67.5°	99.0	99.0	99.0	99.0	98.0	99.0	99.0	97.0	95.0	89.0	83.0
70°	79.0	78.0	77.0	78.0	77.0	77.0	78.0	76.0	75.0	70.0	64.0
72.5°	58.0	59.0	58.0	58.0	58.0	57.0	58.0	57.0	55.0	51.0	47.0
75°	41.0	42.0	42.0	41.0	41.0	41.0	40.0	40.0	38.0	35.0	33.0
77.5°	28.0	28.0	28.0	28.0	27.0	27.0	27.0	26.0	25.0	23.0	21.0
80°	18.0	18.0	18.0	18.0	17.0	17.0	17.0	16.0	16.0	14.0	12.0
82.5°	11.0	11.0	11.0	11.0	11.0	11.0	10.0	10.0	9.0	8.0	7.0
85°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.0	5.0	4.0	3.0
87.5°	2.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	864.9	864.9	864.9	864.9	864.9	864.9	864.9	864.9	864.9	864.9	864.9
2.5°	860.9	861.9	861.9	861.9	864.9	865.9	862.9	859.9	865.9	864.9	866.9
5°	850.9	853.9	855.9	856.9	859.9	861.9	858.9	857.9	862.9	863.9	864.9
7.5°	838.9	843.9	848.9	850.9	854.9	856.9	855.9	855.9	861.9	863.9	863.9
10°	830.9	837.9	843.9	848.9	853.9	856.9	856.9	857.9	864.9	866.9	868.9
12.5°	828.9	837.9	845.9	852.9	856.9	861.9	862.9	865.9	872.9	875.9	875.9
15°	823.9	835.9	845.9	854.9	860.9	866.9	868.9	874.9	882.9	884.9	886.9
17.5°	814.9	826.9	838.9	849.9	857.9	862.9	868.9	874.9	884.9	887.9	888.9
20°	798.9	812.9	824.9	835.9	843.9	850.9	856.9	863.9	872.9	876.9	877.9
22.5°	774.9	788.9	800.9	812.9	820.9	826.9	832.9	840.9	849.9	853.9	853.9
25°	745.9	758.9	771.9	780.9	788.9	795.9	798.9	807.9	816.9	821.9	821.9
27.5°	708.9	720.9	732.9	742.9	747.9	753.9	758.9	766.9	773.9	777.9	781.9
30°	661.9	673.9	684.9	694.9	700.9	706.9	711.9	717.9	724.9	729.9	730.9
32.5°	610.9	620.9	631.9	641.9	647.9	649.9	654.9	660.9	666.9	670.9	671.9
35°	554.9	561.9	568.9	577.9	583.9	583.9	588.9	592.9	597.9	606.9	604.9
37.5°	488.9	498.9	503.9	506.9	510.9	514.9	515.9	520.9	526.9	528.9	531.9
40°	426.9	429.9	432.9	432.9	436.9	436.9	436.9	437.9	443.9	444.9	448.9
42.5°	364.9	364.9	361.9	358.9	359.9	358.9	353.9	353.9	356.9	360.9	360.9
45°	307.0	300.0	291.0	284.0	279.0	277.0	271.0	271.0	270.0	271.0	275.0
47.5°	258.0	246.0	231.0	217.0	212.0	208.0	199.0	195.0	193.0	194.0	196.0
50°	217.0	204.0	187.0	170.0	161.0	156.0	145.0	138.0	137.0	135.0	139.0
52.5°	187.0	171.0	153.0	133.0	124.0	116.0	104.0	98.0	94.0	94.0	95.0
55°	161.0	144.0	124.0	104.0	95.0	89.0	77.0	69.0	65.0	64.0	67.0
57.5°	139.0	123.0	103.0	83.0	74.0	67.0	55.0	48.0	45.0	43.0	44.0
60°	122.0	106.0	86.0	67.0	59.0	51.0	41.0	33.0	29.0	29.0	30.0
62.5°	106.0	91.0	73.0	55.0	48.0	41.0	30.0	23.0	20.0	19.0	20.0
65°	90.0	76.0	61.0	46.0	39.0	33.0	24.0	18.0	14.0	13.0	14.0
67.5°	73.0	62.0	49.0	37.0	31.0	26.0	18.0	13.0	10.0	9.0	10.0
70°	57.0	47.0	37.0	27.0	23.0	19.0	13.0	10.0	7.0	6.0	7.0
72.5°	41.0	34.0	26.0	19.0	16.0	13.0	9.0	7.0	5.0	4.0	5.0
75°	28.0	23.0	17.0	12.0	10.0	9.0	6.0	4.0	3.0	3.0	3.0
77.5°	18.0	14.0	11.0	8.0	6.0	5.0	3.0	2.0	2.0	2.0	2.0
80°	10.0	8.0	6.0	4.0	3.0	3.0	2.0	2.0	1.0	1.0	1.0
82.5°	6.0	4.0	3.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	1.0	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°	864.9	864.9	864.9	864.9	864.9	864.9	864.9	864.9	864.9	864.9	864.9
2.5°	862.9	863.9	860.9	864.9	861.9	865.9	865.9	861.9	862.9	860.9	864.9
5°	860.9	860.9	858.9	861.9	857.9	861.9	860.9	853.9	855.9	851.9	855.9
7.5°	860.9	858.9	855.9	858.9	853.9	856.9	852.9	845.9	843.9	838.9	838.9
10°	863.9	860.9	856.9	857.9	852.9	853.9	847.9	837.9	834.9	828.9	826.9
12.5°	870.9	867.9	861.9	863.9	856.9	856.9	848.9	836.9	830.9	822.9	820.9
15°	880.9	875.9	868.9	869.9	862.9	858.9	848.9	834.9	826.9	815.9	812.9
17.5°	882.9	877.9	868.9	868.9	859.9	854.9	842.9	826.9	816.9	805.9	799.9
20°	871.9	866.9	856.9	855.9	847.9	840.9	827.9	811.9	801.9	789.9	784.9
22.5°	848.9	842.9	833.9	832.9	824.9	820.9	806.9	790.9	780.9	768.9	764.9
25°	814.9	811.9	802.9	801.9	794.9	789.9	777.9	762.9	753.9	741.9	737.9
27.5°	774.9	771.9	762.9	762.9	754.9	751.9	740.9	726.9	719.9	708.9	703.9
30°	726.9	722.9	717.9	716.9	709.9	706.9	696.9	683.9	676.9	667.9	665.9
32.5°	669.9	666.9	663.9	662.9	655.9	652.9	645.9	632.9	626.9	618.9	615.9
35°	603.9	601.9	598.9	597.9	594.9	591.9	584.9	574.9	571.9	565.9	562.9
37.5°	527.9	529.9	527.9	527.9	524.9	525.9	519.9	513.9	510.9	506.9	504.9
40°	445.9	449.9	452.9	452.9	451.9	455.9	454.9	449.9	448.9	446.9	445.9
42.5°	362.9	364.9	370.9	374.9	373.9	383.9	384.9	388.9	391.9	389.9	390.9
45°	276.0	282.0	290.0	294.0	299.0	312.0	319.0	327.0	333.9	337.9	336.9
47.5°	199.0	206.0	215.0	221.0	230.0	246.0	264.0	274.0	284.0	289.0	294.0
50°	144.0	151.0	162.0	171.0	177.0	199.0	218.0	231.0	242.0	249.0	254.0
52.5°	101.0	109.0	121.0	129.0	138.0	159.0	181.0	196.0	208.0	217.0	222.0
55°	70.0	79.0	90.0	98.0	108.0	130.0	151.0	167.0	180.0	188.0	194.0
57.5°	49.0	57.0	68.0	75.0	85.0	106.0	127.0	143.0	156.0	164.0	171.0
60°	33.0	41.0	52.0	59.0	67.0	88.0	107.0	124.0	136.0	144.0	151.0
62.5°	23.0	30.0	41.0	48.0	55.0	73.0	91.0	106.0	118.0	127.0	133.0
65°	18.0	24.0	33.0	39.0	46.0	61.0	76.0	89.0	101.0	110.0	114.0
67.5°	13.0	19.0	26.0	31.0	36.0	49.0	62.0	72.0	83.0	90.0	95.0
70°	9.0	13.0	19.0	23.0	27.0	37.0	47.0	56.0	64.0	69.0	73.0
72.5°	7.0	9.0	13.0	16.0	19.0	26.0	34.0	41.0	47.0	51.0	55.0
75°	4.0	6.0	9.0	11.0	13.0	18.0	23.0	28.0	32.0	35.0	37.0
77.5°	2.0	3.0	5.0	6.0	8.0	11.0	15.0	18.0	21.0	23.0	25.0
80°	2.0	2.0	3.0	3.0	4.0	6.0	8.0	10.0	12.0	14.0	15.0
82.5°	1.0	1.0	2.0	2.0	2.0	3.0	4.0	6.0	7.0	8.0	9.0
85°	1.0	1.0	1.0	1.0	1.0	2.0	2.0	3.0	4.0	5.0	5.0
87.5°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	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



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	864.9	864.9	864.9	864.9	864.9	864.9	864.9	864.9
2.5°	861.9	863.9	862.9	864.9	861.9	860.9	862.9	859.9
5°	850.9	851.9	850.9	850.9	848.9	846.9	848.9	845.9
7.5°	833.9	833.9	830.9	830.9	826.9	824.9	824.9	823.9
10°	819.9	816.9	813.9	814.9	808.9	806.9	805.9	804.9
12.5°	812.9	810.9	805.9	805.9	799.9	797.9	796.9	795.9
15°	804.9	800.9	796.9	795.9	790.9	788.9	787.9	785.9
17.5°	790.9	787.9	782.9	782.9	777.9	776.9	774.9	773.9
20°	775.9	771.9	767.9	767.9	761.9	761.9	758.9	759.9
22.5°	754.9	751.9	747.9	747.9	742.9	741.9	738.9	737.9
25°	729.9	725.9	722.9	721.9	717.9	715.9	714.9	712.9
27.5°	696.9	693.9	690.9	688.9	683.9	682.9	679.9	680.9
30°	655.9	653.9	652.9	650.9	644.9	642.9	642.9	639.9
32.5°	610.9	607.9	605.9	602.9	597.9	596.9	593.9	594.9
35°	555.9	551.9	548.9	549.9	543.9	542.9	540.9	541.9
37.5°	498.9	494.9	490.9	489.9	484.9	484.9	481.9	481.9
40°	439.9	435.9	433.9	433.9	427.9	428.9	425.9	424.9
42.5°	386.9	382.9	381.9	380.9	377.9	376.9	373.9	374.9
45°	336.9	335.9	335.9	333.9	331.0	330.0	331.0	331.0
47.5°	293.0	294.0	293.0	293.0	291.0	293.0	291.0	292.0
50°	256.0	258.0	258.0	258.0	257.0	258.0	258.0	259.0
52.5°	225.0	228.0	227.0	228.0	227.0	229.0	228.0	229.0
55°	198.0	200.0	201.0	202.0	202.0	202.0	202.0	202.0
57.5°	173.0	176.0	177.0	178.0	178.0	180.0	178.0	178.0
60°	153.0	156.0	157.0	158.0	158.0	159.0	157.0	158.0
62.5°	135.0	138.0	138.0	139.0	139.0	139.0	137.0	138.0
65°	117.0	118.0	119.0	119.0	118.0	118.0	117.0	118.0
67.5°	97.0	98.0	97.0	97.0	96.0	96.0	94.0	95.0
70°	75.0	75.0	76.0	75.0	74.0	75.0	74.0	73.0
72.5°	56.0	56.0	56.0	55.0	55.0	54.0	55.0	55.0
75°	38.0	38.0	39.0	39.0	39.0	39.0	38.0	38.0
77.5°	25.0	25.0	25.0	25.0	26.0	25.0	25.0	25.0
80°	16.0	16.0	17.0	17.0	16.0	16.0	16.0	16.0
82.5°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
85°	6.0	6.0	6.0	6.0	5.0	5.0	5.0	5.0
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0
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)