

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: P274453

Luminaire Tested: **LD6B15DE010W2N2765 EU6B1020W2N902765 6LBDW0LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274453
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: LD6B15DE010W2N2765 EU6B1020W2N902765 6LBDW0LI
Description: PORTFOLIO 6" W2N RN DOWNLIGHT, DOUBLE WALLWASH WITH SPECULAR FINISH
Light Source: W2N 2700K-6500K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1345.6 lumens
Efficiency: N/A
Efficacy: 61.2 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

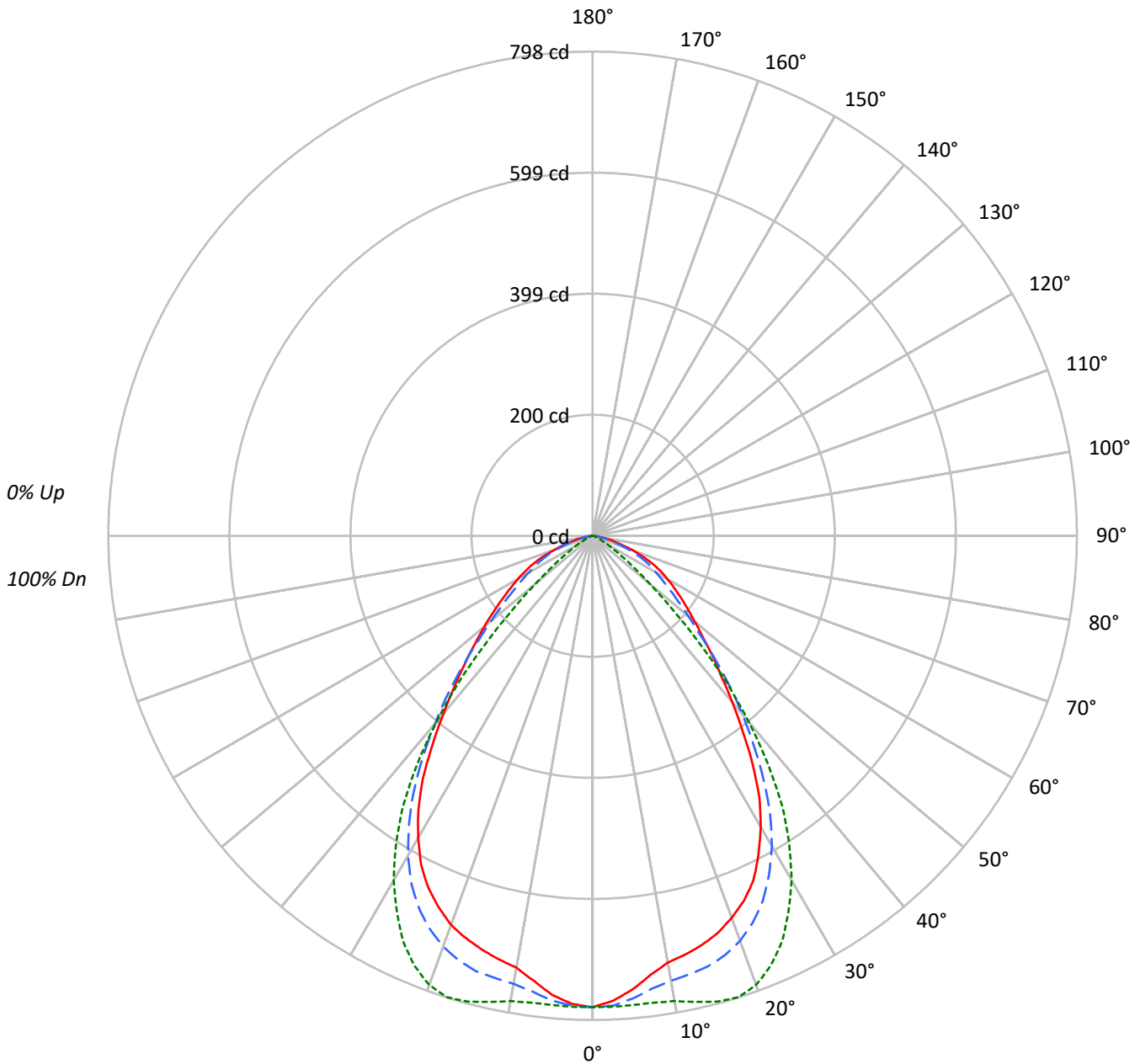
Input Watts (W): 22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P274453

CATALOG NUMBER: LD6B15DE010W2N2765 EU6B1020W2N902765 6LBDW0LI

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°	50685	50685	50685
5°	49170	50820	49759
10°	47300	51587	47897
15°	47131	53682	47678
20°	46517	54688	47391
25°	45127	53147	46099
30°	41742	49389	43302
35°	36620	43422	38771
40°	30523	34041	32508
45°	25686	22457	27430
50°	22238	12301	23608
55°	20121	6540	20633
60°	18515	3393	18515
65°	16780	1806	16363
70°	13543	1030	12513
75°	9276	681	8596
80°	6086	338	5410
85°	4042	674	3368



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	5.4
10°-20°	209.5	15.6
20°-30°	309.5	23.0
30°-40°	312.6	23.2
40°-50°	215.5	16.0
50°-60°	123.8	9.2
60°-70°	72.0	5.4
70°-80°	26.3	2.0
80°-90°	4.0	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°	591.4	44.0
0°-40°	904.0	67.2
0°-60°	1243.3	92.4
0°-90°	1345.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1345.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	777	777	777	777	777	
5°	751	765	776	769	760	70
15°	698	735	795	743	706	197
25°	627	664	738	677	640	286
35°	460	491	545	514	487	285
45°	278	282	243	300	297	216
55°	177	155	58	162	181	159
65°	109	92	12	91	106	106
75°	37	30	3	29	34	41
85°	5	3	1	4	4	7
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°	776.9	776.9	776.9	776.9	776.9	776.9	776.9	776.9	776.9	776.9	776.9
2.5°	767.0	767.9	768.8	767.9	768.8	772.4	769.7	771.5	771.5	772.4	775.1
5°	750.8	750.8	752.6	751.7	754.4	758.0	755.3	758.0	758.9	760.7	765.2
7.5°	730.2	730.2	731.1	731.1	734.7	738.3	736.5	740.1	743.7	747.2	752.6
10°	714.0	715.8	715.8	716.7	720.3	724.8	723.9	728.4	732.0	737.4	744.6
12.5°	706.8	707.7	707.7	709.5	713.1	717.6	716.7	721.2	726.6	732.9	740.1
15°	697.8	699.6	698.7	700.5	704.1	708.6	707.7	712.2	718.5	724.8	734.7
17.5°	686.2	687.1	688.0	688.0	691.6	695.2	695.2	699.6	706.8	714.0	724.8
20°	670.0	671.8	671.8	672.7	675.4	680.8	679.9	684.4	691.6	698.7	710.4
22.5°	651.1	652.0	652.0	652.9	657.4	660.1	661.0	664.6	670.9	679.0	689.8
25°	626.9	627.8	626.9	629.6	631.4	636.8	635.0	639.5	646.7	652.9	663.7
27.5°	591.9	593.7	593.7	594.6	599.1	603.5	603.5	608.0	614.3	618.8	629.6
30°	554.1	556.8	554.1	558.6	560.4	564.0	566.7	569.4	574.8	581.1	591.0
32.5°	511.0	510.1	511.0	512.8	518.2	520.9	522.7	525.4	530.8	536.2	544.3
35°	459.8	461.6	462.5	466.1	466.1	470.6	471.5	473.3	481.4	485.0	491.3
37.5°	406.0	407.8	408.7	410.4	414.0	415.8	418.5	421.2	426.6	432.9	436.5
40°	358.4	358.4	359.3	361.0	363.7	364.6	367.3	370.9	374.5	379.9	383.5
42.5°	313.4	314.3	313.4	315.2	317.9	321.5	320.6	325.1	326.0	329.6	332.3
45°	278.4	278.4	276.6	278.4	278.4	282.0	281.1	282.9	282.0	283.8	282.0
47.5°	245.2	246.1	245.2	246.1	246.1	246.1	247.0	245.2	246.1	243.4	238.0
50°	219.1	220.0	218.2	219.1	218.2	217.3	218.2	215.6	214.7	211.1	205.7
52.5°	196.7	195.8	194.9	194.9	194.9	194.0	193.1	190.4	187.7	184.1	177.8
55°	176.9	176.0	175.1	175.1	173.3	172.4	172.4	169.7	167.1	162.6	155.4
57.5°	159.0	158.1	157.2	157.2	156.3	154.5	154.5	151.8	148.2	142.8	136.5
60°	141.9	141.9	141.9	141.0	141.0	139.2	139.2	136.5	132.9	127.5	120.3
62.5°	126.6	125.7	125.7	125.7	125.7	124.8	123.9	122.1	118.6	113.2	106.9
65°	108.7	108.7	108.7	108.7	107.8	107.8	107.8	105.1	103.3	97.9	91.6
67.5°	88.9	88.9	88.9	88.9	88.0	88.9	88.9	87.1	85.3	79.9	74.5
70°	71.0	70.1	69.2	70.1	69.2	69.2	70.1	68.3	67.4	62.9	57.5
72.5°	52.1	53.0	52.1	52.1	52.1	51.2	52.1	51.2	49.4	45.8	42.2
75°	36.8	37.7	37.7	36.8	36.8	36.8	35.9	35.9	34.1	31.4	29.6
77.5°	25.1	25.1	25.1	25.1	24.2	24.2	24.2	23.4	22.5	20.7	18.9
80°	16.2	16.2	16.2	16.2	15.3	15.3	15.3	14.4	14.4	12.6	10.8
82.5°	9.9	9.9	9.9	9.9	9.9	9.9	9.0	9.0	8.1	7.2	6.3
85°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	4.5	4.5	3.6	2.7
87.5°	1.8	1.8	2.7	2.7	2.7	2.7	2.7	2.7	1.8	1.8	1.8
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	776.9	776.9	776.9	776.9	776.9	776.9	776.9	776.9	776.9	776.9	776.9
2.5°	773.3	774.2	774.2	774.2	776.9	777.8	775.1	772.4	777.8	776.9	778.7
5°	764.3	767.0	768.8	769.7	772.4	774.2	771.5	770.6	775.1	776.0	776.9
7.5°	753.5	758.0	762.5	764.3	767.9	769.7	768.8	768.8	774.2	776.0	776.0
10°	746.3	752.6	758.0	762.5	767.0	769.7	769.7	770.6	776.9	778.7	780.5
12.5°	744.6	752.6	759.8	766.1	769.7	774.2	775.1	777.8	784.1	786.8	786.8
15°	740.1	750.8	759.8	767.9	773.3	778.7	780.5	785.9	793.1	794.8	796.6
17.5°	732.0	742.8	753.5	763.4	770.6	775.1	780.5	785.9	794.8	797.5	798.4
20°	717.6	730.2	741.0	750.8	758.0	764.3	769.7	776.0	784.1	787.7	788.6
22.5°	696.1	708.6	719.4	730.2	737.4	742.8	748.1	755.3	763.4	767.0	767.0
25°	670.0	681.7	693.4	701.4	708.6	714.9	717.6	725.7	733.8	738.3	738.3
27.5°	636.8	647.6	658.3	667.3	671.8	677.2	681.7	688.9	695.2	698.7	702.3
30°	594.6	605.3	615.2	624.2	629.6	635.0	639.5	644.9	651.1	655.6	656.5
32.5°	548.8	557.7	567.6	576.6	582.0	583.8	588.3	593.7	599.1	602.6	603.5
35°	498.5	504.8	511.0	519.1	524.5	524.5	529.0	532.6	537.1	545.2	543.4
37.5°	439.2	448.2	452.7	455.4	458.9	462.5	463.4	467.9	473.3	475.1	477.8
40°	383.5	386.2	388.9	388.9	392.5	392.5	392.5	393.4	398.8	399.7	403.3
42.5°	327.8	327.8	325.1	322.4	323.3	322.4	317.9	317.9	320.6	324.2	324.2
45°	275.7	269.4	261.4	255.1	250.6	248.8	243.4	243.4	242.5	243.4	247.0
47.5°	231.7	220.9	207.5	194.9	190.4	186.8	178.7	175.1	173.3	174.2	176.0
50°	194.9	183.2	168.0	152.7	144.6	140.1	130.2	123.9	123.0	121.2	124.8
52.5°	168.0	153.6	137.4	119.5	111.4	104.2	93.4	88.0	84.4	84.4	85.3
55°	144.6	129.3	111.4	93.4	85.3	79.9	69.2	62.0	58.4	57.5	60.2
57.5°	124.8	110.5	92.5	74.5	66.5	60.2	49.4	43.1	40.4	38.6	39.5
60°	109.6	95.2	77.2	60.2	53.0	45.8	36.8	29.6	26.0	26.0	26.9
62.5°	95.2	81.7	65.6	49.4	43.1	36.8	26.9	20.7	18.0	17.1	18.0
65°	80.8	68.3	54.8	41.3	35.0	29.6	21.6	16.2	12.6	11.7	12.6
67.5°	65.6	55.7	44.0	33.2	27.8	23.4	16.2	11.7	9.0	8.1	9.0
70°	51.2	42.2	33.2	24.2	20.7	17.1	11.7	9.0	6.3	5.4	6.3
72.5°	36.8	30.5	23.4	17.1	14.4	11.7	8.1	6.3	4.5	3.6	4.5
75°	25.1	20.7	15.3	10.8	9.0	8.1	5.4	3.6	2.7	2.7	2.7
77.5°	16.2	12.6	9.9	7.2	5.4	4.5	2.7	1.8	1.8	1.8	1.8
80°	9.0	7.2	5.4	3.6	2.7	2.7	1.8	1.8	0.9	0.9	0.9
82.5°	5.4	3.6	2.7	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9
85°	2.7	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
87.5°	0.9	0.9	0.9	0.9	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°	776.9	776.9	776.9	776.9	776.9	776.9	776.9	776.9	776.9	776.9	776.9
2.5°	775.1	776.0	773.3	776.9	774.2	777.8	777.8	774.2	775.1	773.3	776.9
5°	773.3	773.3	771.5	774.2	770.6	774.2	773.3	767.0	768.8	765.2	768.8
7.5°	773.3	771.5	768.8	771.5	767.0	769.7	766.1	759.8	758.0	753.5	753.5
10°	776.0	773.3	769.7	770.6	766.1	767.0	761.6	752.6	749.9	744.6	742.8
12.5°	782.3	779.6	774.2	776.0	769.7	769.7	762.5	751.7	746.3	739.2	737.4
15°	791.3	786.8	780.5	781.4	775.1	771.5	762.5	749.9	742.8	732.9	730.2
17.5°	793.1	788.6	780.5	780.5	772.4	767.9	757.1	742.8	733.8	723.9	718.5
20°	783.2	778.7	769.7	768.8	761.6	755.3	743.7	729.3	720.3	709.5	705.0
22.5°	762.5	757.1	749.0	748.1	741.0	737.4	724.8	710.4	701.4	690.7	687.1
25°	732.0	729.3	721.2	720.3	714.0	709.5	698.7	685.3	677.2	666.4	662.8
27.5°	696.1	693.4	685.3	685.3	678.1	675.4	665.5	652.9	646.7	636.8	632.3
30°	652.9	649.3	644.9	644.0	637.7	635.0	626.0	614.3	608.0	600.0	598.2
32.5°	601.7	599.1	596.4	595.5	589.2	586.5	580.2	568.5	563.1	555.9	553.2
35°	542.5	540.7	538.0	537.1	534.4	531.7	525.4	516.4	513.7	508.3	505.6
37.5°	474.2	476.0	474.2	474.2	471.5	472.4	467.0	461.6	458.9	455.4	453.6
40°	400.6	404.2	406.9	406.9	406.0	409.5	408.7	404.2	403.3	401.5	400.6
42.5°	326.0	327.8	333.2	336.8	335.9	344.9	345.8	349.4	352.1	350.3	351.2
45°	247.9	253.3	260.5	264.1	268.5	280.2	286.5	293.7	300.0	303.6	302.7
47.5°	178.7	185.0	193.1	198.5	206.6	220.9	237.1	246.1	255.1	259.6	264.1
50°	129.3	135.6	145.5	153.6	159.0	178.7	195.8	207.5	217.3	223.6	228.1
52.5°	90.7	97.9	108.7	115.9	123.9	142.8	162.6	176.0	186.8	194.9	199.4
55°	62.9	71.0	80.8	88.0	97.0	116.8	135.6	150.0	161.7	168.8	174.2
57.5°	44.0	51.2	61.1	67.4	76.3	95.2	114.1	128.4	140.1	147.3	153.6
60°	29.6	36.8	46.7	53.0	60.2	79.0	96.1	111.4	122.1	129.3	135.6
62.5°	20.7	26.9	36.8	43.1	49.4	65.6	81.7	95.2	106.0	114.1	119.5
65°	16.2	21.6	29.6	35.0	41.3	54.8	68.3	79.9	90.7	98.8	102.4
67.5°	11.7	17.1	23.4	27.8	32.3	44.0	55.7	64.7	74.5	80.8	85.3
70°	8.1	11.7	17.1	20.7	24.2	33.2	42.2	50.3	57.5	62.0	65.6
72.5°	6.3	8.1	11.7	14.4	17.1	23.4	30.5	36.8	42.2	45.8	49.4
75°	3.6	5.4	8.1	9.9	11.7	16.2	20.7	25.1	28.7	31.4	33.2
77.5°	1.8	2.7	4.5	5.4	7.2	9.9	13.5	16.2	18.9	20.7	22.5
80°	1.8	1.8	2.7	2.7	3.6	5.4	7.2	9.0	10.8	12.6	13.5
82.5°	0.9	0.9	1.8	1.8	1.8	2.7	3.6	5.4	6.3	7.2	8.1
85°	0.9	0.9	0.9	0.9	0.9	1.8	1.8	2.7	3.6	4.5	4.5
87.5°	0.0	0.0	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8	2.7
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: P274453

CATALOG NUMBER: LD6B15DE010W2N2765 EU6B1020W2N902765 6LBDW0LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	776.9	776.9	776.9	776.9	776.9	776.9	776.9	776.9
2.5°	774.2	776.0	775.1	776.9	774.2	773.3	775.1	772.4
5°	764.3	765.2	764.3	764.3	762.5	760.7	762.5	759.8
7.5°	749.0	749.0	746.3	746.3	742.8	741.0	741.0	740.1
10°	736.5	733.8	731.1	732.0	726.6	724.8	723.9	723.0
12.5°	730.2	728.4	723.9	723.9	718.5	716.7	715.8	714.9
15°	723.0	719.4	715.8	714.9	710.4	708.6	707.7	705.9
17.5°	710.4	707.7	703.2	703.2	698.7	697.8	696.1	695.2
20°	697.0	693.4	689.8	689.8	684.4	684.4	681.7	682.6
22.5°	678.1	675.4	671.8	671.8	667.3	666.4	663.7	662.8
25°	655.6	652.0	649.3	648.5	644.9	643.1	642.2	640.4
27.5°	626.0	623.3	620.6	618.8	614.3	613.4	610.7	611.6
30°	589.2	587.4	586.5	584.7	579.3	577.5	577.5	574.8
32.5°	548.8	546.1	544.3	541.6	537.1	536.2	533.5	534.4
35°	499.4	495.8	493.1	494.0	488.6	487.7	485.9	486.8
37.5°	448.2	444.6	441.0	440.1	435.6	435.6	432.9	432.9
40°	395.2	391.6	389.8	389.8	384.4	385.3	382.6	381.7
42.5°	347.6	344.0	343.1	342.2	339.5	338.6	335.9	336.8
45°	302.7	301.8	301.8	300.0	297.3	296.4	297.3	297.3
47.5°	263.2	264.1	263.2	263.2	261.4	263.2	261.4	262.3
50°	229.9	231.7	231.7	231.7	230.8	231.7	231.7	232.6
52.5°	202.1	204.8	203.9	204.8	203.9	205.7	204.8	205.7
55°	177.8	179.6	180.5	181.4	181.4	181.4	181.4	181.4
57.5°	155.4	158.1	159.0	159.9	159.9	161.7	159.9	159.9
60°	137.4	140.1	141.0	141.9	141.9	142.8	141.0	141.9
62.5°	121.2	123.9	123.9	124.8	124.8	124.8	123.0	123.9
65°	105.1	106.0	106.9	106.9	106.0	106.0	105.1	106.0
67.5°	87.1	88.0	87.1	87.1	86.2	86.2	84.4	85.3
70°	67.4	67.4	68.3	67.4	66.5	67.4	66.5	65.6
72.5°	50.3	50.3	50.3	49.4	49.4	48.5	49.4	49.4
75°	34.1	34.1	35.0	35.0	35.0	35.0	34.1	34.1
77.5°	22.5	22.5	22.5	22.5	23.4	22.5	22.5	22.5
80°	14.4	14.4	15.3	15.3	14.4	14.4	14.4	14.4
82.5°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
85°	5.4	5.4	5.4	5.4	4.5	4.5	4.5	4.5
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	1.8	1.8
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)