

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: P252129

Luminaire Tested: **LD6B10D010 EU6B10208030 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B10D010 EU6B10208030 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1353.0 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

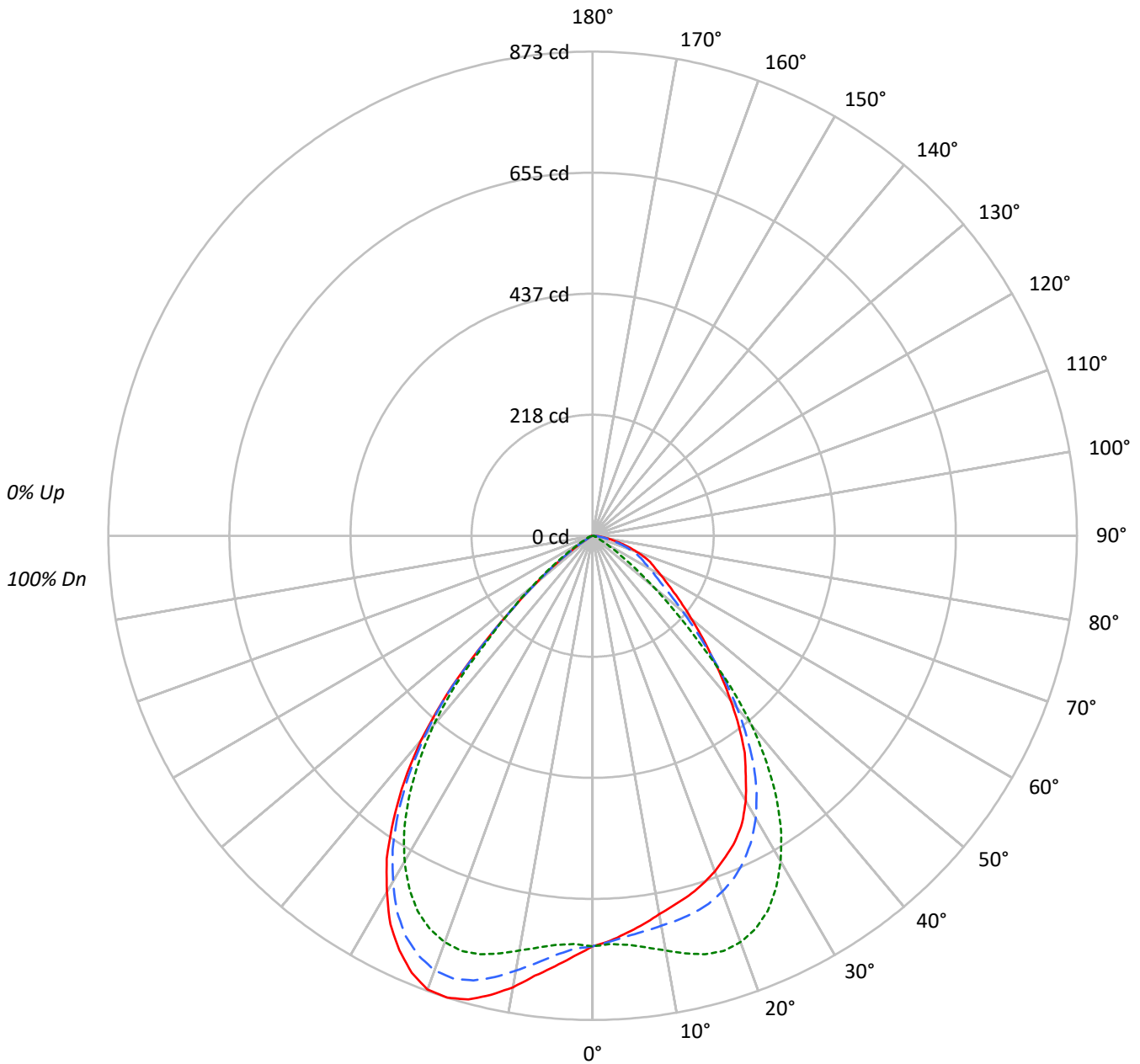
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80																			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72																			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65																			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58																			
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53																			
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48																			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																			
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40																			
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	48291	48291	48291
5°	47041	48476	51023
10°	45896	50301	54753
15°	45361	52764	58458
20°	44711	54140	60430
25°	43760	53744	59344
30°	41584	51069	55867
35°	38046	46042	49881
40°	32908	38026	40922
45°	27744	24939	26766
50°	23557	14433	13570
55°	20440	6927	5232
60°	18463	3236	1292
65°	17923	1852	432
70°	16061	1488	401
75°	13208	1059	176
80°	9843	526	0
85°	8459	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	5.3
10°-20°	217.9	16.1
20°-30°	332.9	24.6
30°-40°	348.2	25.7
40°-50°	225.9	16.7
50°-60°	89.7	6.6
60°-70°	42.5	3.1
70°-80°	20.2	1.5
80°-90°	4.1	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°	622.3	46.0
0°-40°	970.5	71.7
0°-60°	1286.1	95.1
0°-90°	1353.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1353.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	740	740	740	740	740	
5°	718	725	740	759	779	68
15°	672	704	781	830	866	189
25°	608	646	747	797	824	278
35°	478	507	578	612	626	295
45°	301	298	270	287	290	234
55°	180	153	61	47	46	163
65°	116	96	12	3	3	113
75°	52	42	4	1	1	56
85°	11	7	0	0	0	13
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°	740.2	740.2	740.2	740.2	740.2	740.2	740.2	740.2	740.2	740.2	740.2
2.5°	731.0	732.4	724.6	722.5	728.2	730.3	731.0	728.9	729.6	732.4	732.4
5°	718.3	719.7	712.6	710.5	716.1	717.6	719.7	719.0	721.1	725.3	724.6
7.5°	706.2	708.4	700.6	697.7	704.8	708.4	709.8	709.8	712.6	718.3	719.0
10°	692.8	695.6	688.5	687.1	694.9	698.4	699.2	700.6	704.8	712.6	714.0
12.5°	681.5	684.3	679.3	677.2	685.7	689.2	690.7	693.5	698.4	708.4	709.8
15°	671.6	673.7	668.0	666.6	675.1	679.3	680.0	684.3	690.7	702.0	704.1
17.5°	658.8	660.2	656.0	654.6	663.1	667.3	668.0	673.0	680.8	692.1	695.6
20°	644.0	645.4	641.1	639.7	648.2	653.2	653.9	658.1	667.3	679.3	682.9
22.5°	626.3	629.1	624.1	622.7	631.2	635.5	637.6	641.1	650.3	662.4	667.3
25°	607.9	607.9	604.3	603.6	611.4	616.4	615.7	620.6	629.8	641.8	646.1
27.5°	583.8	583.1	579.6	578.9	587.3	591.6	590.2	595.1	603.6	615.7	619.9
30°	552.0	553.4	548.4	547.0	554.1	561.2	560.5	565.4	573.9	585.2	588.1
32.5°	513.8	515.2	514.5	512.3	518.7	522.2	524.4	527.9	535.0	547.0	549.8
35°	477.7	475.5	472.7	472.7	479.1	484.7	482.6	486.9	493.9	506.0	506.7
37.5°	433.1	432.4	431.0	429.5	436.6	438.0	438.7	441.6	447.9	457.8	456.4
40°	386.4	387.1	386.4	383.5	387.8	393.5	392.7	394.2	399.8	406.9	404.8
42.5°	342.5	342.5	342.5	339.7	344.6	347.5	348.9	348.2	349.6	355.9	353.1
45°	300.7	301.5	300.7	300.0	300.7	302.2	300.7	300.0	300.0	302.2	297.9
47.5°	264.7	264.7	262.5	260.4	262.5	263.2	261.1	259.0	258.3	257.6	250.5
50°	232.1	231.4	230.7	227.2	229.3	230.0	227.2	225.7	222.9	219.4	210.9
52.5°	203.8	203.1	202.4	198.8	200.3	201.0	198.1	195.3	191.8	188.9	178.3
55°	179.7	179.0	179.0	176.9	175.5	176.9	174.1	172.0	167.0	163.5	152.9
57.5°	159.2	159.2	157.8	155.7	156.4	156.4	153.6	150.7	146.5	142.2	133.7
60°	141.5	141.5	141.5	139.4	139.4	139.4	138.0	135.2	131.6	127.4	118.9
62.5°	127.4	127.4	126.7	124.5	125.3	125.3	123.8	121.0	117.5	114.6	106.1
65°	116.1	116.1	116.1	113.9	113.9	114.6	113.2	110.4	107.6	104.0	96.2
67.5°	101.9	101.2	101.2	99.8	100.5	101.2	99.8	97.7	94.1	92.0	84.9
70°	84.2	84.9	85.6	83.5	84.2	84.2	83.5	81.4	79.3	77.1	70.8
72.5°	68.6	68.6	67.9	67.2	67.2	67.9	66.5	64.4	63.0	61.6	56.6
75°	52.4	51.7	52.4	51.0	51.0	51.0	49.5	48.8	48.1	46.0	42.5
77.5°	38.2	37.5	37.5	36.1	36.8	36.8	36.1	34.7	33.3	32.6	29.7
80°	26.2	26.2	26.2	25.5	25.5	24.8	24.8	24.1	22.6	21.9	20.5
82.5°	17.7	17.7	17.7	17.0	17.0	17.0	16.3	15.6	14.9	14.2	12.7
85°	11.3	11.3	11.3	10.6	10.6	10.6	9.9	9.9	9.2	8.5	7.1
87.5°	6.4	6.4	6.4	5.7	5.7	5.7	5.7	5.7	5.0	4.2	3.5
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°	740.2	740.2	740.2	740.2	740.2	740.2	740.2	740.2	740.2	740.2	740.2
2.5°	737.4	727.5	733.8	733.8	731.7	737.4	740.9	743.7	743.0	736.7	736.0
5°	731.7	723.2	730.3	731.0	728.9	736.7	741.6	745.2	745.9	740.2	740.9
7.5°	727.5	720.4	729.6	732.4	731.7	738.8	744.4	750.1	752.9	748.7	749.4
10°	725.3	719.7	729.6	733.8	734.5	742.3	750.8	758.6	762.1	759.3	761.4
12.5°	722.5	719.0	730.3	736.7	739.5	747.3	757.9	767.1	772.7	771.3	775.6
15°	719.7	716.8	730.3	739.5	743.0	750.1	762.1	775.6	781.9	781.2	786.9
17.5°	712.6	711.9	726.0	736.0	740.9	749.4	760.7	777.0	783.4	784.8	791.9
20°	701.3	701.3	716.8	727.5	733.1	740.9	755.1	770.6	778.4	779.8	787.6
22.5°	685.7	687.1	702.0	712.6	721.1	726.8	741.6	757.9	765.0	767.1	775.6
25°	665.2	666.6	680.8	691.4	700.6	706.9	721.1	736.0	744.4	746.6	752.9
27.5°	638.3	641.1	654.6	665.2	673.0	677.2	692.1	707.6	714.0	716.1	722.5
30°	607.2	607.9	621.3	630.5	638.3	641.8	654.6	670.8	675.8	677.9	687.1
32.5°	568.9	568.2	581.0	589.5	595.8	600.1	613.5	624.1	629.1	632.6	637.6
35°	523.0	522.2	531.4	541.3	546.3	547.7	561.2	572.5	575.3	578.1	584.5
37.5°	471.3	471.3	479.1	484.0	489.7	491.8	498.2	510.9	515.9	515.2	520.1
40°	416.8	414.0	419.6	424.6	426.0	426.7	433.1	443.0	446.5	446.5	450.1
42.5°	359.5	355.2	355.9	358.8	360.2	355.2	359.5	365.9	363.7	366.6	367.3
45°	298.6	292.3	289.4	283.1	284.5	279.5	276.7	278.1	277.4	270.3	271.7
47.5°	249.1	237.8	232.8	223.6	221.5	215.8	212.3	205.9	200.3	200.3	196.7
50°	207.3	196.0	186.1	175.5	172.0	167.0	159.2	150.7	146.5	142.2	138.7
52.5°	174.1	162.1	150.0	138.7	133.7	127.4	116.8	108.3	100.5	96.2	92.0
55°	147.2	133.7	121.0	109.0	102.6	96.2	85.6	75.7	66.5	60.9	57.3
57.5°	126.7	113.9	100.5	87.7	82.1	75.0	63.7	53.1	44.6	38.2	34.7
60°	111.8	99.1	87.0	73.6	67.9	60.9	48.8	38.9	30.4	24.8	20.5
62.5°	99.1	87.7	75.0	63.0	57.3	50.2	38.9	29.0	21.2	15.6	12.0
65°	89.9	78.5	67.9	55.9	51.0	43.9	33.3	24.1	17.0	12.0	8.5
67.5°	79.3	69.3	58.7	48.8	43.9	38.2	28.3	20.5	14.2	9.9	7.1
70°	66.5	58.7	49.5	40.3	36.8	31.8	23.4	17.0	11.3	7.8	5.7
72.5°	53.1	46.7	39.6	32.6	29.7	24.8	19.1	13.4	8.5	5.7	4.2
75°	40.3	35.4	29.7	24.8	21.9	19.1	14.2	9.9	6.4	4.2	2.8
77.5°	27.6	25.5	21.2	17.0	15.6	13.4	9.2	6.4	4.2	2.8	1.4
80°	19.1	17.0	14.2	11.3	9.9	8.5	5.7	4.2	2.1	1.4	0.7
82.5°	12.0	9.9	8.5	7.1	6.4	5.0	3.5	2.1	1.4	0.7	0.7
85°	6.4	5.7	5.0	3.5	3.5	2.8	2.1	1.4	0.7	0.0	0.0
87.5°	3.5	2.8	2.1	1.4	1.4	0.7	0.7	0.7	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°	740.2	740.2	740.2	740.2	740.2	740.2	740.2	740.2	740.2	740.2	740.2
2.5°	744.4	744.4	743.7	752.2	742.3	752.2	747.3	752.2	745.2	744.4	745.2
5°	750.1	752.2	752.9	760.7	751.5	763.6	759.3	763.6	758.6	760.0	762.1
7.5°	761.4	765.0	764.3	774.2	765.0	778.4	775.6	781.9	777.0	778.4	781.2
10°	774.2	778.4	779.1	789.0	780.5	796.8	793.3	800.3	796.1	798.2	801.8
12.5°	789.0	794.0	794.7	806.0	796.8	813.8	811.7	818.7	815.2	817.3	821.6
15°	800.3	807.4	808.8	820.2	810.3	827.9	826.5	835.7	830.1	833.6	837.1
17.5°	806.0	812.4	815.2	825.8	817.3	835.0	833.6	841.4	837.1	840.7	844.9
20°	802.5	810.3	812.4	823.0	814.5	832.2	830.1	837.9	833.6	836.4	840.7
22.5°	789.7	797.5	800.3	810.3	802.5	818.7	818.0	825.1	819.5	823.0	826.5
25°	767.1	775.6	777.0	786.2	777.7	794.7	793.3	801.1	796.8	798.9	803.9
27.5°	734.5	744.4	746.6	754.4	748.0	762.1	762.1	768.5	763.6	763.6	768.5
30°	695.6	705.5	706.9	713.3	707.6	720.4	721.1	727.5	719.7	723.9	724.6
32.5°	648.2	654.6	658.8	664.5	656.0	672.3	670.1	675.1	670.8	670.8	674.4
35°	590.9	598.7	600.8	607.9	600.8	613.5	613.5	616.4	612.1	612.1	617.8
37.5°	528.6	534.3	535.0	542.1	536.4	547.0	546.3	548.4	544.2	547.0	547.0
40°	455.7	460.0	461.4	464.9	464.2	472.0	471.3	472.7	470.6	471.3	472.7
42.5°	370.8	376.5	379.3	382.1	377.9	388.5	386.4	388.5	387.8	388.5	390.6
45°	273.2	277.4	279.5	280.2	278.8	285.2	290.1	285.9	286.6	285.2	288.0
47.5°	197.4	198.1	196.7	201.0	197.4	200.3	201.7	202.4	198.1	197.4	200.3
50°	135.2	138.7	133.7	135.9	135.2	138.0	136.6	137.3	133.0	135.2	133.7
52.5°	89.9	89.2	87.7	88.5	87.0	87.0	87.0	88.5	85.6	84.2	82.8
55°	54.5	53.1	50.2	49.5	49.5	50.2	48.8	47.4	47.4	46.7	46.7
57.5°	31.8	29.7	28.3	27.6	26.2	25.5	24.8	24.8	23.4	23.4	23.4
60°	17.7	15.6	14.2	12.7	12.7	12.0	11.3	10.6	10.6	10.6	9.9
62.5°	9.2	7.8	6.4	5.7	5.7	5.0	4.2	4.2	4.2	4.2	3.5
65°	6.4	5.0	4.2	3.5	3.5	2.8	2.8	2.8	2.8	2.8	2.8
67.5°	5.0	4.2	3.5	2.8	2.8	2.8	2.1	2.1	2.1	2.1	2.1
70°	4.2	2.8	2.8	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
72.5°	2.8	2.8	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
75°	2.1	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0
80°	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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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CATALOG NUMBER: LD6B10D010 EU6B10208030 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	740.2	740.2	740.2	740.2	740.2	740.2	740.2	740.2
2.5°	751.5	750.8	751.5	752.9	750.1	758.6	754.4	758.6
5°	767.8	768.5	769.2	771.3	767.8	778.4	772.7	779.1
7.5°	789.0	789.7	790.4	792.6	790.4	801.1	794.7	800.3
10°	811.0	812.4	812.4	815.9	813.8	823.7	819.5	826.5
12.5°	831.5	832.9	834.3	836.4	835.0	845.6	842.1	847.8
15°	847.8	850.6	851.3	854.1	852.7	864.0	859.8	865.5
17.5°	855.5	858.4	858.4	861.9	860.5	872.5	866.9	873.2
20°	851.3	853.4	854.1	857.7	856.3	868.3	862.6	870.4
22.5°	837.9	838.6	839.3	842.8	842.1	852.7	847.8	852.7
25°	813.1	815.2	814.5	817.3	817.3	825.8	820.2	824.4
27.5°	777.7	779.8	779.8	783.4	780.5	789.0	783.4	789.7
30°	734.5	736.7	735.2	738.1	735.2	743.7	739.5	741.6
32.5°	682.9	682.9	683.6	684.3	682.9	690.7	686.4	690.7
35°	621.3	622.7	623.4	624.1	622.7	628.4	623.4	626.3
37.5°	552.0	555.5	554.8	555.5	553.4	560.5	556.2	557.6
40°	477.7	477.7	477.0	478.4	476.2	481.9	479.1	480.5
42.5°	391.3	393.5	390.6	394.2	388.5	396.3	393.5	391.3
45°	293.7	290.8	290.1	290.8	288.7	289.4	291.6	290.1
47.5°	200.3	200.3	198.8	196.7	199.6	200.3	197.4	197.4
50°	134.5	134.5	133.0	132.3	133.7	133.0	131.6	133.7
52.5°	85.6	82.8	82.8	84.2	82.8	81.4	83.5	82.1
55°	46.7	45.3	45.3	46.7	45.3	45.3	44.6	46.0
57.5°	22.6	23.4	22.6	22.6	22.6	22.6	21.9	22.6
60°	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
62.5°	4.2	4.2	3.5	3.5	3.5	3.5	3.5	3.5
65°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
67.5°	2.1	2.1	2.1	2.1	2.1	2.8	2.1	2.1
70°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
72.5°	2.1	2.1	2.8	2.8	2.8	2.8	2.8	2.8
75°	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	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



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)