

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: P252352

Luminaire Tested: **LD6B15D010 EU6B10208040 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252352  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6B15D010 EU6B10208040 6LBLWW1LI  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1373.0 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

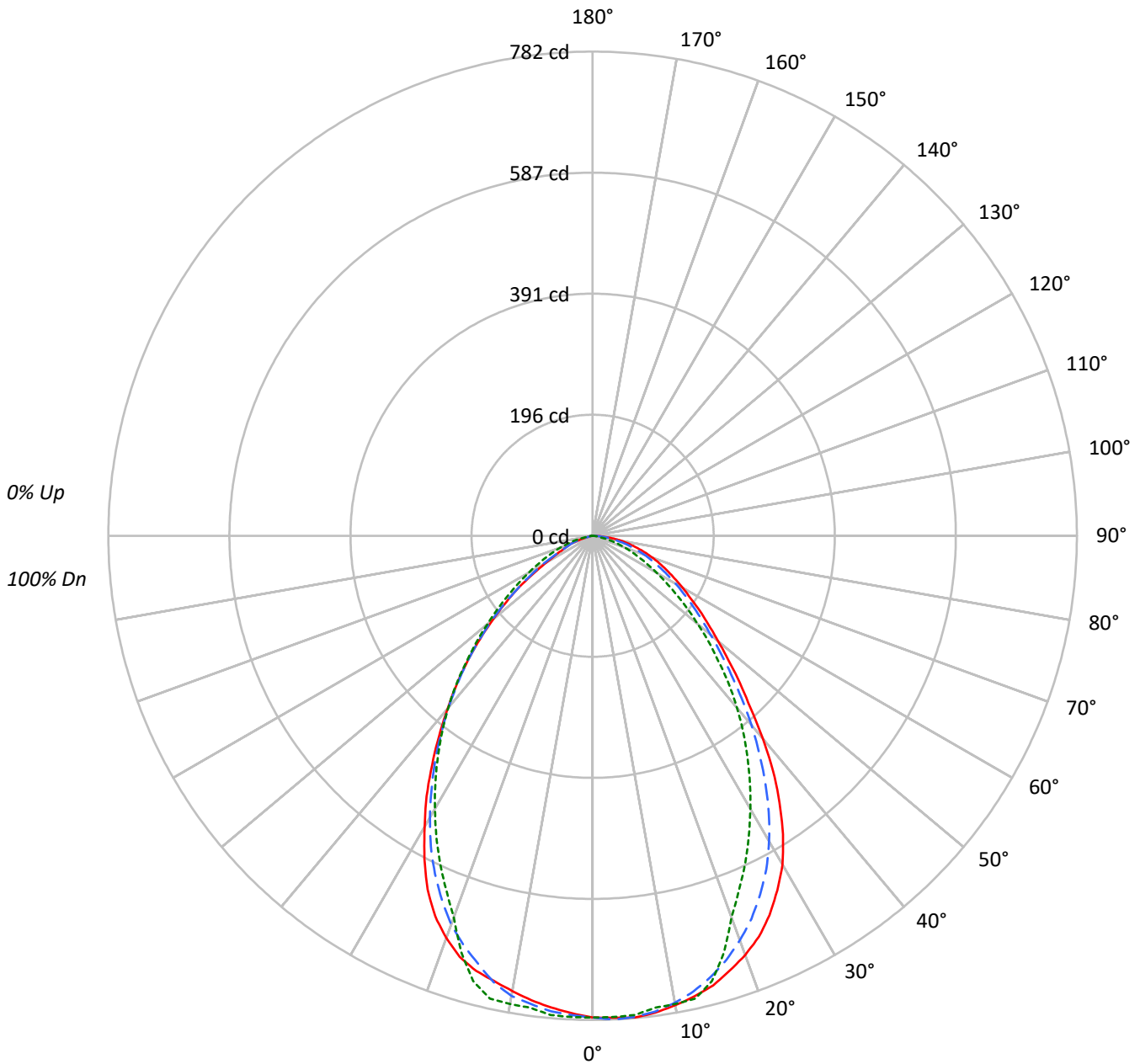
Input Watts (W): 14.39  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				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
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77				77
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68				68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60				60
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54				54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48				48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44				44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40				40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36				36
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33				33

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	50757	50757	50757
5°	51148	50879	50087
10°	51004	50864	49460
15°	50771	50292	49130
20°	50016	45524	47981
25°	48655	41967	45379
30°	46202	38360	40868
35°	41925	34685	35967
40°	36400	30890	30975
45°	31038	26563	26286
50°	26866	22461	21223
55°	24023	18734	16436
60°	21882	15553	11078
65°	20439	12782	8259
70°	19457	10415	6943
75°	18326	7386	2294
80°	17470	3795	751
85°	14372	2246	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.5	5.4
10°-20°	205.5	15.0
20°-30°	283.6	20.7
30°-40°	288.6	21.0
40°-50°	231.9	16.9
50°-60°	154.2	11.2
60°-70°	87.9	6.4
70°-80°	39.5	2.9
80°-90°	8.3	0.6
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°	562.5	41.0
0°-40°	851.2	62.0
0°-60°	1237.3	90.1
0°-90°	1373.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1373.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	778	778	778	778	778	
5°	781	780	777	771	765	74
15°	752	738	745	715	727	212
25°	676	640	583	602	630	310
35°	526	486	436	444	452	327
45°	336	316	288	285	285	261
55°	211	197	165	146	144	190
65°	132	118	83	54	54	132
75°	73	61	29	12	9	78
85°	19	13	3	1	0	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°	778.0	778.0	778.0	778.0	778.0	778.0	778.0	778.0	778.0	778.0	778.0
2.5°	779.0	783.0	782.0	781.0	782.0	781.0	779.0	779.0	776.9	776.9	782.0
5°	781.0	783.0	782.0	781.0	781.0	782.0	778.0	778.0	775.9	774.9	780.0
7.5°	776.9	780.0	778.0	778.0	776.9	778.0	773.9	773.9	770.9	769.9	774.9
10°	769.9	773.9	771.9	771.9	771.9	769.9	767.8	766.8	763.8	762.8	765.8
12.5°	761.8	764.8	763.8	761.8	761.8	761.8	757.7	756.7	752.7	750.7	753.7
15°	751.7	753.7	752.7	751.7	749.7	749.7	745.6	743.6	739.6	735.5	737.5
17.5°	736.5	739.6	737.5	736.5	733.5	733.5	729.5	727.4	721.4	717.3	718.3
20°	720.4	721.4	720.4	718.3	715.3	714.3	710.3	706.2	701.2	696.1	695.1
22.5°	701.2	702.2	699.1	697.1	694.1	693.1	688.0	685.0	676.9	670.9	669.8
25°	675.9	676.9	676.9	671.9	669.8	667.8	662.8	657.7	650.7	642.6	639.5
27.5°	645.6	648.6	646.6	641.6	637.5	636.5	631.5	627.4	618.3	611.2	607.2
30°	613.3	612.3	611.2	608.2	602.2	601.1	596.1	591.0	584.0	574.9	569.8
32.5°	571.8	571.8	570.8	567.8	561.7	559.7	555.7	549.6	541.5	534.5	529.4
35°	526.4	527.4	526.4	520.3	516.3	514.3	512.2	505.2	498.1	490.0	486.0
37.5°	478.9	475.9	476.9	471.8	466.8	468.8	462.7	459.7	451.6	445.6	441.5
40°	427.4	429.4	425.3	423.3	420.3	417.3	417.3	412.2	408.2	401.1	399.1
42.5°	376.9	379.9	378.9	376.9	372.8	373.8	368.8	366.7	361.7	358.7	355.6
45°	336.4	336.4	336.4	334.4	333.4	331.4	328.4	325.3	322.3	318.3	316.2
47.5°	297.0	297.0	298.0	296.0	294.0	293.0	291.0	291.0	285.9	281.9	279.9
50°	264.7	264.7	264.7	262.7	260.7	260.7	258.6	256.6	253.6	250.6	248.5
52.5°	235.4	235.4	235.4	233.4	232.4	231.4	230.4	229.3	225.3	223.3	221.3
55°	211.2	210.1	210.1	209.1	207.1	207.1	206.1	204.1	201.1	198.0	197.0
57.5°	186.9	187.9	186.9	186.9	184.9	184.9	182.9	181.9	178.8	176.8	174.8
60°	167.7	167.7	167.7	166.7	164.7	165.7	163.7	162.7	159.6	156.6	154.6
62.5°	148.5	149.5	149.5	148.5	146.5	146.5	145.5	144.5	141.4	138.4	135.4
65°	132.4	132.4	132.4	131.3	130.3	130.3	129.3	128.3	125.3	121.2	118.2
67.5°	117.2	116.2	116.2	116.2	115.2	114.2	113.2	112.1	109.1	106.1	102.0
70°	102.0	102.0	102.0	101.0	99.0	100.0	99.0	98.0	95.0	91.9	88.9
72.5°	87.9	87.9	86.9	85.9	85.9	84.9	84.9	83.9	80.8	76.8	73.8
75°	72.7	72.7	72.7	72.7	70.7	71.7	69.7	68.7	66.7	63.7	60.6
77.5°	59.6	59.6	59.6	58.6	57.6	57.6	56.6	55.6	52.5	50.5	46.5
80°	46.5	46.5	46.5	46.5	45.5	44.5	43.4	42.4	40.4	37.4	34.4
82.5°	34.4	34.4	33.3	33.3	33.3	32.3	31.3	30.3	28.3	26.3	24.2
85°	19.2	20.2	20.2	18.2	19.2	18.2	18.2	16.2	16.2	14.1	13.1
87.5°	7.1	6.1	6.1	6.1	6.1	6.1	6.1	5.1	5.1	5.1	4.0
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°	778.0	778.0	778.0	778.0	778.0	778.0	778.0	778.0	778.0	778.0	778.0
2.5°	778.0	776.9	781.0	781.0	774.9	778.0	779.0	776.9	776.9	778.0	774.9
5°	775.9	773.9	778.0	779.0	772.9	775.9	776.9	774.9	775.9	776.9	772.9
7.5°	768.9	768.9	771.9	772.9	766.8	769.9	769.9	767.8	768.9	768.9	765.8
10°	761.8	758.8	761.8	761.8	756.7	757.7	759.8	758.8	762.8	767.8	767.8
12.5°	748.7	745.6	750.7	750.7	747.6	751.7	756.7	759.8	763.8	765.8	759.8
15°	732.5	733.5	742.6	749.7	746.6	752.7	757.7	755.7	750.7	744.6	735.5
17.5°	711.3	708.2	716.3	720.4	716.3	718.3	722.4	718.3	710.3	705.2	693.1
20°	687.0	678.9	678.9	676.9	669.8	669.8	668.8	661.8	658.7	655.7	650.7
22.5°	659.7	650.7	647.6	641.6	635.5	634.5	631.5	624.4	620.3	618.3	612.3
25°	628.4	620.3	615.3	609.2	600.1	598.1	595.1	588.0	586.0	583.0	577.9
27.5°	596.1	586.0	578.9	572.9	564.8	563.8	557.7	552.6	548.6	546.6	542.5
30°	558.7	547.6	542.5	534.5	528.4	526.4	521.3	514.3	511.2	509.2	506.2
32.5°	517.3	508.2	503.1	496.1	488.0	489.0	482.9	476.9	474.9	472.8	469.8
35°	476.9	467.8	461.7	455.7	450.6	448.6	444.5	439.5	436.5	435.5	433.4
37.5°	432.4	425.3	420.3	414.2	410.2	408.2	406.2	401.1	399.1	399.1	395.0
40°	389.0	382.9	378.9	375.8	370.8	369.8	367.8	364.7	363.7	362.7	359.7
42.5°	349.6	341.5	338.5	336.4	333.4	331.4	330.4	328.4	327.3	326.3	323.3
45°	312.2	305.1	302.1	300.1	297.0	296.0	295.0	292.0	290.0	287.9	286.9
47.5°	275.8	270.8	269.8	264.7	262.7	260.7	258.6	256.6	255.6	254.6	250.6
50°	244.5	241.5	236.4	233.4	231.4	230.4	226.3	223.3	222.3	221.3	218.2
52.5°	216.2	212.2	209.1	204.1	203.1	201.1	199.0	195.0	193.0	192.0	188.9
55°	191.0	187.9	183.9	179.8	176.8	175.8	172.8	168.7	166.7	164.7	162.7
57.5°	169.7	164.7	160.6	156.6	154.6	151.5	148.5	146.5	143.5	140.4	137.4
60°	149.5	145.5	140.4	136.4	134.4	132.4	128.3	125.3	122.2	119.2	116.2
62.5°	130.3	126.3	121.2	117.2	115.2	113.2	109.1	106.1	103.1	100.0	96.0
65°	113.2	109.1	105.1	101.0	99.0	97.0	93.0	88.9	85.9	82.8	78.8
67.5°	99.0	94.0	89.9	85.9	83.9	81.8	77.8	74.8	70.7	67.7	63.7
70°	83.9	79.8	76.8	72.7	70.7	68.7	64.7	60.6	57.6	54.6	50.5
72.5°	70.7	65.7	62.6	58.6	56.6	55.6	51.5	48.5	45.5	41.4	38.4
75°	56.6	52.5	48.5	45.5	43.4	42.4	38.4	35.4	32.3	29.3	26.3
77.5°	43.4	40.4	36.4	33.3	31.3	30.3	26.3	23.2	20.2	18.2	15.2
80°	32.3	28.3	26.3	23.2	22.2	20.2	18.2	15.2	13.1	10.1	8.1
82.5°	22.2	19.2	17.2	15.2	14.1	13.1	11.1	9.1	7.1	6.1	5.1
85°	12.1	10.1	9.1	8.1	7.1	7.1	6.1	5.1	4.0	3.0	2.0
87.5°	4.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0	1.0	1.0	1.0
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°	778.0	778.0	778.0	778.0	778.0	778.0	778.0	778.0	778.0	778.0	778.0
2.5°	776.9	776.9	776.9	775.9	775.9	775.9	774.9	779.0	774.9	773.9	776.9
5°	775.9	773.9	773.9	773.9	773.9	772.9	771.9	773.9	770.9	769.9	769.9
7.5°	769.9	768.9	768.9	767.8	766.8	765.8	764.8	765.8	762.8	761.8	761.8
10°	770.9	768.9	768.9	765.8	763.8	760.8	757.7	758.8	754.7	751.7	751.7
12.5°	758.8	753.7	750.7	747.6	745.6	744.6	740.6	742.6	738.6	737.5	737.5
15°	731.5	725.4	720.4	718.3	718.3	716.3	713.3	717.3	715.3	716.3	721.4
17.5°	689.0	686.0	683.0	682.0	683.0	685.0	687.0	693.1	693.1	696.1	701.2
20°	651.7	649.6	651.7	651.7	652.7	656.7	660.8	665.8	667.8	670.9	677.9
22.5°	615.3	615.3	617.3	620.3	619.3	626.4	627.4	636.5	636.5	642.6	648.6
25°	579.9	579.9	581.9	583.0	585.0	589.0	593.1	600.1	602.2	608.2	613.3
27.5°	545.6	544.6	544.6	545.6	547.6	552.6	554.7	562.8	565.8	569.8	574.9
30°	507.2	506.2	508.2	510.2	509.2	514.3	517.3	523.4	525.4	529.4	533.5
32.5°	470.8	470.8	470.8	472.8	472.8	476.9	476.9	483.9	483.9	487.0	491.0
35°	433.4	433.4	434.4	435.5	436.5	437.5	438.5	442.5	443.5	444.5	446.6
37.5°	398.1	397.1	398.1	398.1	396.0	400.1	400.1	404.1	401.1	404.1	405.1
40°	361.7	361.7	360.7	360.7	360.7	362.7	360.7	363.7	361.7	363.7	362.7
42.5°	324.3	324.3	322.3	324.3	323.3	323.3	323.3	325.3	322.3	324.3	325.3
45°	286.9	285.9	285.9	284.9	284.9	284.9	285.9	285.9	284.9	286.9	286.9
47.5°	250.6	249.6	249.6	249.6	249.6	250.6	247.5	249.6	247.5	247.5	247.5
50°	219.2	218.2	217.2	216.2	215.2	215.2	214.2	214.2	212.2	211.2	210.1
52.5°	188.9	187.9	185.9	185.9	184.9	183.9	180.8	180.8	177.8	176.8	176.8
55°	161.7	158.6	157.6	155.6	155.6	153.6	151.5	149.5	146.5	144.5	144.5
57.5°	136.4	133.4	131.3	130.3	129.3	127.3	123.3	122.2	118.2	117.2	116.2
60°	114.2	111.1	108.1	106.1	105.1	102.0	98.0	96.0	94.0	90.9	87.9
62.5°	93.0	89.9	85.9	84.9	82.8	79.8	76.8	73.8	71.7	68.7	66.7
65°	74.8	71.7	68.7	66.7	64.7	61.6	58.6	55.6	53.5	52.5	51.5
67.5°	60.6	56.6	53.5	52.5	50.5	48.5	45.5	44.5	42.4	42.4	42.4
70°	47.5	44.5	41.4	40.4	39.4	37.4	35.4	35.4	35.4	35.4	35.4
72.5°	35.4	33.3	30.3	29.3	28.3	27.3	25.3	26.3	25.3	25.3	25.3
75°	22.2	20.2	18.2	17.2	16.2	15.2	14.1	13.1	12.1	11.1	11.1
77.5°	12.1	10.1	9.1	8.1	8.1	7.1	6.1	6.1	5.1	5.1	5.1
80°	7.1	6.1	5.1	4.0	4.0	3.0	3.0	3.0	3.0	2.0	2.0
82.5°	4.0	3.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0
85°	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	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	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	778.0	778.0	778.0	778.0	778.0	778.0	778.0	778.0
2.5°	771.9	774.9	771.9	774.9	774.9	774.9	774.9	771.9
5°	766.8	768.9	765.8	767.8	768.9	767.8	767.8	764.8
7.5°	757.7	759.8	756.7	759.8	760.8	759.8	758.8	756.7
10°	748.7	749.7	746.6	748.7	750.7	750.7	749.7	746.6
12.5°	734.5	737.5	734.5	736.5	738.6	739.6	739.6	736.5
15°	718.3	723.4	721.4	724.4	727.4	728.4	728.4	727.4
17.5°	702.2	707.2	704.2	709.3	712.3	714.3	715.3	713.3
20°	678.9	685.0	683.0	687.0	691.1	694.1	694.1	691.1
22.5°	648.6	656.7	655.7	658.7	663.8	664.8	666.8	664.8
25°	615.3	621.4	620.3	623.4	629.4	629.4	630.4	630.4
27.5°	576.9	583.0	581.9	584.0	588.0	589.0	590.0	588.0
30°	535.5	538.5	538.5	541.5	544.6	545.6	545.6	542.5
32.5°	490.0	494.1	496.1	495.1	498.1	500.1	499.1	499.1
35°	448.6	449.6	450.6	451.6	452.6	454.6	452.6	451.6
37.5°	404.1	407.2	405.1	407.2	409.2	408.2	407.2	407.2
40°	363.7	364.7	362.7	364.7	365.7	365.7	365.7	363.7
42.5°	323.3	325.3	323.3	325.3	325.3	325.3	325.3	324.3
45°	282.9	284.9	284.9	285.9	285.9	284.9	284.9	284.9
47.5°	245.5	247.5	245.5	247.5	248.5	246.5	246.5	246.5
50°	210.1	209.1	209.1	210.1	210.1	210.1	210.1	209.1
52.5°	173.8	174.8	174.8	174.8	175.8	174.8	175.8	175.8
55°	142.5	142.5	142.5	143.5	142.5	142.5	143.5	144.5
57.5°	114.2	113.2	112.1	112.1	113.2	112.1	112.1	112.1
60°	87.9	86.9	85.9	85.9	85.9	85.9	85.9	84.9
62.5°	65.7	65.7	65.7	66.7	66.7	66.7	66.7	67.7
65°	52.5	52.5	52.5	52.5	52.5	52.5	52.5	53.5
67.5°	42.4	42.4	42.4	43.4	43.4	43.4	43.4	43.4
70°	35.4	35.4	36.4	35.4	36.4	36.4	36.4	36.4
72.5°	24.2	24.2	24.2	24.2	24.2	23.2	24.2	23.2
75°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	9.1
77.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	1.0	1.0	1.0	1.0	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)