

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: P252360

Luminaire Tested: **LD6B15D010 EU6B10209727 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252360
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 EU6B10209727 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 947.0 lumens
Efficiency: N/A
Efficacy: 65.8 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

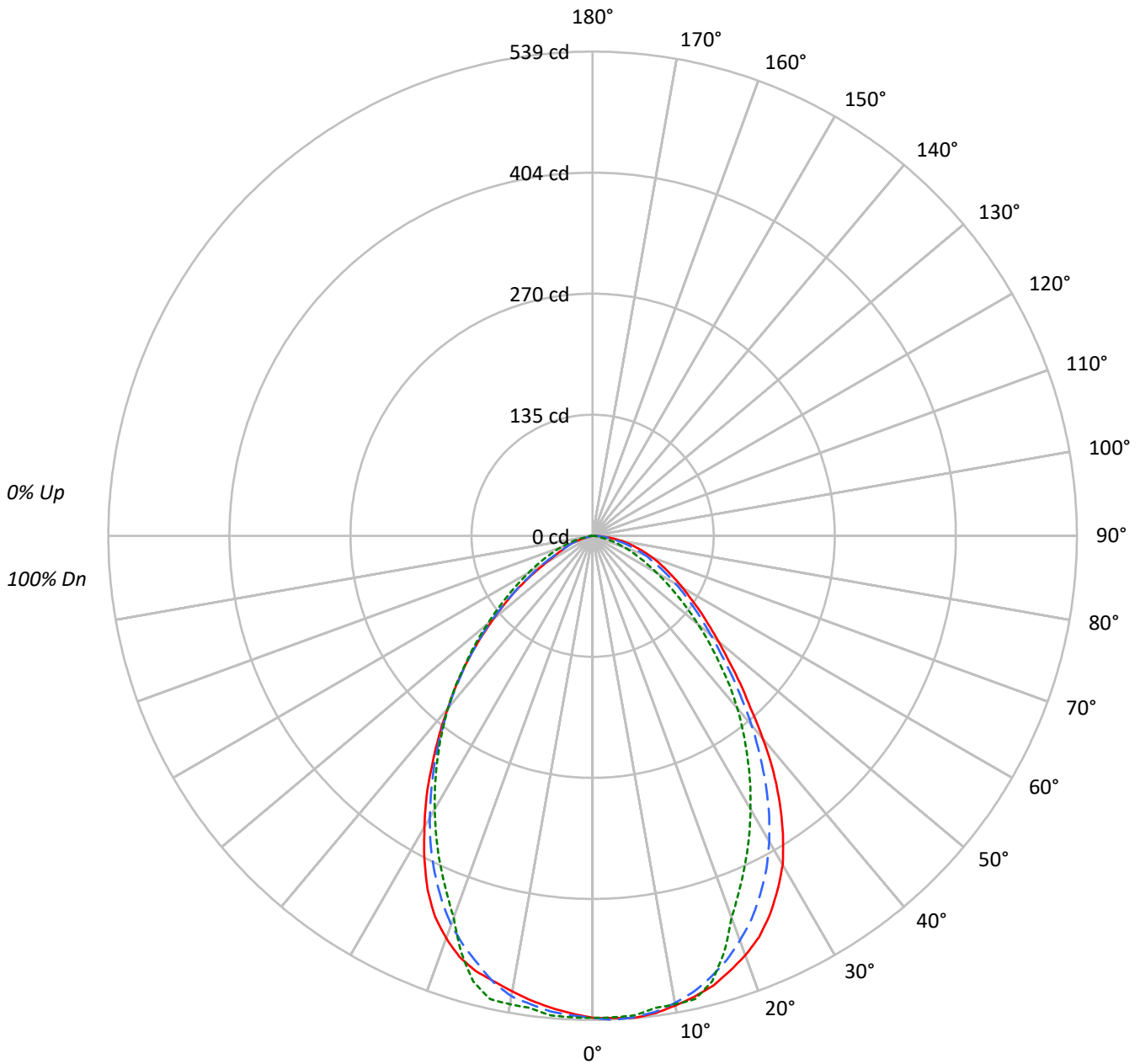
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252360

CATALOG NUMBER: LD6B15D010 EU6B10209727 6LBLWW1LI

Luminous Intensity Polar Plot





TEST NUMBER: P252360

CATALOG NUMBER: LD6B15D010 EU6B10209727 6LBLWW1LI

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	35008	35008	35008
5°	35279	35096	34546
10°	35177	35084	34117
15°	35021	34690	33886
20°	34499	31402	33089
25°	33559	28945	31299
30°	31866	26457	28190
35°	28919	23917	24809
40°	25107	21308	21368
45°	21415	18324	18130
50°	18533	15488	14636
55°	16561	12921	11340
60°	15097	10726	7633
65°	14094	8815	5696
70°	13429	7172	4788
75°	12654	5092	1588
80°	12060	2630	526
85°	9881	1572	0



TEST NUMBER: P252360

CATALOG NUMBER: LD6B15D010 EU6B10209727 6LBLWW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.7	5.4
10°-20°	141.7	15.0
20°-30°	195.6	20.7
30°-40°	199.1	21.0
40°-50°	160.0	16.9
50°-60°	106.4	11.2
60°-70°	60.6	6.4
70°-80°	27.2	2.9
80°-90°	5.7	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°	388.0	41.0
0°-40°	587.1	62.0
0°-60°	853.4	90.1
0°-90°	947.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	947.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	537	537	537	537	537	
5°	539	538	536	532	528	51
15°	518	509	514	493	502	146
25°	466	441	402	415	435	214
35°	363	335	300	306	312	226
45°	232	218	199	196	196	180
55°	146	136	114	101	100	131
65°	91	82	57	37	37	91
75°	50	42	20	8	6	54
85°	13	9	2	1	0	16
90°	0	0	0	0	0	



TEST NUMBER: P252360

CATALOG NUMBER: LD6B15D010 EU6B10209727 6LBLWW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6
2.5°	537.3	540.1	539.4	538.7	539.4	538.7	537.3	537.3	535.9	535.9	539.4
5°	538.7	540.1	539.4	538.7	538.7	539.4	536.6	536.6	535.2	534.5	538.0
7.5°	535.9	538.0	536.6	536.6	535.9	536.6	533.8	533.8	531.7	531.0	534.5
10°	531.0	533.8	532.4	532.4	532.4	531.0	529.6	528.9	526.8	526.1	528.2
12.5°	525.4	527.5	526.8	525.4	525.4	525.4	522.6	521.9	519.2	517.8	519.9
15°	518.5	519.9	519.2	518.5	517.1	517.1	514.3	512.9	510.1	507.3	508.7
17.5°	508.0	510.1	508.7	508.0	505.9	505.9	503.1	501.7	497.6	494.8	495.5
20°	496.9	497.6	496.9	495.5	493.4	492.7	489.9	487.1	483.6	480.1	479.4
22.5°	483.6	484.3	482.2	480.8	478.7	478.0	474.6	472.5	466.9	462.7	462.0
25°	466.2	466.9	466.9	463.4	462.0	460.6	457.1	453.7	448.8	443.2	441.1
27.5°	445.3	447.4	446.0	442.5	439.7	439.0	435.5	432.7	426.5	421.6	418.8
30°	423.0	422.3	421.6	419.5	415.3	414.6	411.1	407.7	402.8	396.5	393.0
32.5°	394.4	394.4	393.7	391.6	387.5	386.1	383.3	379.1	373.5	368.6	365.2
35°	363.1	363.8	363.1	358.9	356.1	354.7	353.3	348.4	343.5	338.0	335.2
37.5°	330.3	328.2	328.9	325.4	321.9	323.3	319.2	317.1	311.5	307.3	304.5
40°	294.8	296.2	293.4	292.0	289.9	287.8	287.8	284.3	281.5	276.7	275.3
42.5°	259.9	262.0	261.3	259.9	257.1	257.8	254.4	253.0	249.5	247.4	245.3
45°	232.1	232.1	232.1	230.7	230.0	228.6	226.5	224.4	222.3	219.5	218.1
47.5°	204.9	204.9	205.6	204.2	202.8	202.1	200.7	200.7	197.2	194.4	193.0
50°	182.6	182.6	182.6	181.2	179.8	179.8	178.4	177.0	174.9	172.8	171.4
52.5°	162.4	162.4	162.4	161.0	160.3	159.6	158.9	158.2	155.4	154.0	152.6
55°	145.6	144.9	144.9	144.2	142.9	142.9	142.2	140.8	138.7	136.6	135.9
57.5°	128.9	129.6	128.9	128.9	127.5	127.5	126.1	125.4	123.3	121.9	120.6
60°	115.7	115.7	115.7	115.0	113.6	114.3	112.9	112.2	110.1	108.0	106.6
62.5°	102.4	103.1	103.1	102.4	101.0	101.0	100.3	99.7	97.6	95.5	93.4
65°	91.3	91.3	91.3	90.6	89.9	89.9	89.2	88.5	86.4	83.6	81.5
67.5°	80.8	80.1	80.1	80.1	79.4	78.7	78.0	77.4	75.3	73.2	70.4
70°	70.4	70.4	70.4	69.7	68.3	69.0	68.3	67.6	65.5	63.4	61.3
72.5°	60.6	60.6	59.9	59.2	59.2	58.5	58.5	57.8	55.7	53.0	50.9
75°	50.2	50.2	50.2	50.2	48.8	49.5	48.1	47.4	46.0	43.9	41.8
77.5°	41.1	41.1	41.1	40.4	39.7	39.7	39.0	38.3	36.2	34.8	32.1
80°	32.1	32.1	32.1	32.1	31.4	30.7	30.0	29.3	27.9	25.8	23.7
82.5°	23.7	23.7	23.0	23.0	23.0	22.3	21.6	20.9	19.5	18.1	16.7
85°	13.2	13.9	13.9	12.5	13.2	12.5	12.5	11.1	11.1	9.8	9.1
87.5°	4.9	4.2	4.2	4.2	4.2	4.2	4.2	3.5	3.5	3.5	2.8
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: P252360

CATALOG NUMBER: LD6B15D010 EU6B10209727 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6
2.5°	536.6	535.9	538.7	538.7	534.5	536.6	537.3	535.9	535.9	536.6	534.5
5°	535.2	533.8	536.6	537.3	533.1	535.2	535.9	534.5	535.2	535.9	533.1
7.5°	530.3	530.3	532.4	533.1	528.9	531.0	531.0	529.6	530.3	530.3	528.2
10°	525.4	523.3	525.4	525.4	521.9	522.6	524.0	523.3	526.1	529.6	529.6
12.5°	516.4	514.3	517.8	517.8	515.7	518.5	521.9	524.0	526.8	528.2	524.0
15°	505.2	505.9	512.2	517.1	515.0	519.2	522.6	521.2	517.8	513.6	507.3
17.5°	490.6	488.5	494.1	496.9	494.1	495.5	498.3	495.5	489.9	486.4	478.0
20°	473.9	468.3	468.3	466.9	462.0	462.0	461.3	456.4	454.3	452.3	448.8
22.5°	455.0	448.8	446.7	442.5	438.3	437.6	435.5	430.7	427.9	426.5	422.3
25°	433.4	427.9	424.4	420.2	413.9	412.5	410.4	405.6	404.2	402.1	398.6
27.5°	411.1	404.2	399.3	395.1	389.5	388.8	384.7	381.2	378.4	377.0	374.2
30°	385.4	377.7	374.2	368.6	364.5	363.1	359.6	354.7	352.6	351.2	349.1
32.5°	356.8	350.5	347.0	342.2	336.6	337.3	333.1	328.9	327.5	326.1	324.0
35°	328.9	322.6	318.5	314.3	310.8	309.4	306.6	303.1	301.0	300.3	299.0
37.5°	298.3	293.4	289.9	285.7	282.9	281.5	280.1	276.7	275.3	275.3	272.5
40°	268.3	264.1	261.3	259.2	255.7	255.0	253.7	251.6	250.9	250.2	248.1
42.5°	241.1	235.5	233.4	232.1	230.0	228.6	227.9	226.5	225.8	225.1	223.0
45°	215.3	210.5	208.4	207.0	204.9	204.2	203.5	201.4	200.0	198.6	197.9
47.5°	190.2	186.8	186.1	182.6	181.2	179.8	178.4	177.0	176.3	175.6	172.8
50°	168.6	166.5	163.1	161.0	159.6	158.9	156.1	154.0	153.3	152.6	150.5
52.5°	149.1	146.3	144.2	140.8	140.1	138.7	137.3	134.5	133.1	132.4	130.3
55°	131.7	129.6	126.8	124.0	121.9	121.3	119.2	116.4	115.0	113.6	112.2
57.5°	117.1	113.6	110.8	108.0	106.6	104.5	102.4	101.0	99.0	96.9	94.8
60°	103.1	100.3	96.9	94.1	92.7	91.3	88.5	86.4	84.3	82.2	80.1
62.5°	89.9	87.1	83.6	80.8	79.4	78.0	75.3	73.2	71.1	69.0	66.2
65°	78.0	75.3	72.5	69.7	68.3	66.9	64.1	61.3	59.2	57.1	54.4
67.5°	68.3	64.8	62.0	59.2	57.8	56.4	53.7	51.6	48.8	46.7	43.9
70°	57.8	55.1	53.0	50.2	48.8	47.4	44.6	41.8	39.7	37.6	34.8
72.5°	48.8	45.3	43.2	40.4	39.0	38.3	35.5	33.4	31.4	28.6	26.5
75°	39.0	36.2	33.4	31.4	30.0	29.3	26.5	24.4	22.3	20.2	18.1
77.5°	30.0	27.9	25.1	23.0	21.6	20.9	18.1	16.0	13.9	12.5	10.5
80°	22.3	19.5	18.1	16.0	15.3	13.9	12.5	10.5	9.1	7.0	5.6
82.5°	15.3	13.2	11.8	10.5	9.8	9.1	7.7	6.3	4.9	4.2	3.5
85°	8.4	7.0	6.3	5.6	4.9	4.9	4.2	3.5	2.8	2.1	1.4
87.5°	2.8	2.1	2.1	2.1	2.1	1.4	1.4	1.4	0.7	0.7	0.7
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: P252360

CATALOG NUMBER: LD6B15D010 EU6B10209727 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6
2.5°	535.9	535.9	535.9	535.2	535.2	535.2	534.5	537.3	534.5	533.8	535.9
5°	535.2	533.8	533.8	533.8	533.8	533.1	532.4	533.8	531.7	531.0	531.0
7.5°	531.0	530.3	530.3	529.6	528.9	528.2	527.5	528.2	526.1	525.4	525.4
10°	531.7	530.3	530.3	528.2	526.8	524.7	522.6	523.3	520.6	518.5	518.5
12.5°	523.3	519.9	517.8	515.7	514.3	513.6	510.8	512.2	509.4	508.7	508.7
15°	504.5	500.3	496.9	495.5	495.5	494.1	492.0	494.8	493.4	494.1	497.6
17.5°	475.3	473.2	471.1	470.4	471.1	472.5	473.9	478.0	478.0	480.1	483.6
20°	449.5	448.1	449.5	449.5	450.2	453.0	455.7	459.2	460.6	462.7	467.6
22.5°	424.4	424.4	425.8	427.9	427.2	432.0	432.7	439.0	439.0	443.2	447.4
25°	400.0	400.0	401.4	402.1	403.5	406.3	409.1	413.9	415.3	419.5	423.0
27.5°	376.3	375.6	375.6	376.3	377.7	381.2	382.6	388.1	390.2	393.0	396.5
30°	349.8	349.1	350.5	351.9	351.2	354.7	356.8	361.0	362.4	365.2	367.9
32.5°	324.7	324.7	324.7	326.1	326.1	328.9	328.9	333.8	333.8	335.9	338.7
35°	299.0	299.0	299.6	300.3	301.0	301.7	302.4	305.2	305.9	306.6	308.0
37.5°	274.6	273.9	274.6	274.6	273.2	276.0	276.0	278.7	276.7	278.7	279.4
40°	249.5	249.5	248.8	248.8	248.8	250.2	248.8	250.9	249.5	250.9	250.2
42.5°	223.7	223.7	222.3	223.7	223.0	223.0	223.0	224.4	222.3	223.7	224.4
45°	197.9	197.2	197.2	196.5	196.5	196.5	197.2	197.2	196.5	197.9	197.9
47.5°	172.8	172.1	172.1	172.1	172.1	172.8	170.7	172.1	170.7	170.7	170.7
50°	151.2	150.5	149.8	149.1	148.4	148.4	147.7	147.7	146.3	145.6	144.9
52.5°	130.3	129.6	128.2	128.2	127.5	126.8	124.7	124.7	122.6	121.9	121.9
55°	111.5	109.4	108.7	107.3	107.3	105.9	104.5	103.1	101.0	99.7	99.7
57.5°	94.1	92.0	90.6	89.9	89.2	87.8	85.0	84.3	81.5	80.8	80.1
60°	78.7	76.7	74.6	73.2	72.5	70.4	67.6	66.2	64.8	62.7	60.6
62.5°	64.1	62.0	59.2	58.5	57.1	55.1	53.0	50.9	49.5	47.4	46.0
65°	51.6	49.5	47.4	46.0	44.6	42.5	40.4	38.3	36.9	36.2	35.5
67.5°	41.8	39.0	36.9	36.2	34.8	33.4	31.4	30.7	29.3	29.3	29.3
70°	32.8	30.7	28.6	27.9	27.2	25.8	24.4	24.4	24.4	24.4	24.4
72.5°	24.4	23.0	20.9	20.2	19.5	18.8	17.4	18.1	17.4	17.4	17.4
75°	15.3	13.9	12.5	11.8	11.1	10.5	9.8	9.1	8.4	7.7	7.7
77.5°	8.4	7.0	6.3	5.6	5.6	4.9	4.2	4.2	3.5	3.5	3.5
80°	4.9	4.2	3.5	2.8	2.8	2.1	2.1	2.1	2.1	1.4	1.4
82.5°	2.8	2.1	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7
85°	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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: P252360

CATALOG NUMBER: LD6B15D010 EU6B10209727 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6
2.5°	532.4	534.5	532.4	534.5	534.5	534.5	534.5	532.4
5°	528.9	530.3	528.2	529.6	530.3	529.6	529.6	527.5
7.5°	522.6	524.0	521.9	524.0	524.7	524.0	523.3	521.9
10°	516.4	517.1	515.0	516.4	517.8	517.8	517.1	515.0
12.5°	506.6	508.7	506.6	508.0	509.4	510.1	510.1	508.0
15°	495.5	498.9	497.6	499.6	501.7	502.4	502.4	501.7
17.5°	484.3	487.8	485.7	489.2	491.3	492.7	493.4	492.0
20°	468.3	472.5	471.1	473.9	476.6	478.7	478.7	476.6
22.5°	447.4	453.0	452.3	454.3	457.8	458.5	459.9	458.5
25°	424.4	428.6	427.9	430.0	434.1	434.1	434.8	434.8
27.5°	397.9	402.1	401.4	402.8	405.6	406.3	407.0	405.6
30°	369.3	371.4	371.4	373.5	375.6	376.3	376.3	374.2
32.5°	338.0	340.8	342.2	341.5	343.5	344.9	344.2	344.2
35°	309.4	310.1	310.8	311.5	312.2	313.6	312.2	311.5
37.5°	278.7	280.8	279.4	280.8	282.2	281.5	280.8	280.8
40°	250.9	251.6	250.2	251.6	252.3	252.3	252.3	250.9
42.5°	223.0	224.4	223.0	224.4	224.4	224.4	224.4	223.7
45°	195.1	196.5	196.5	197.2	197.2	196.5	196.5	196.5
47.5°	169.3	170.7	169.3	170.7	171.4	170.0	170.0	170.0
50°	144.9	144.2	144.2	144.9	144.9	144.9	144.9	144.2
52.5°	119.9	120.6	120.6	120.6	121.3	120.6	121.3	121.3
55°	98.3	98.3	98.3	99.0	98.3	98.3	99.0	99.7
57.5°	78.7	78.0	77.4	77.4	78.0	77.4	77.4	77.4
60°	60.6	59.9	59.2	59.2	59.2	59.2	59.2	58.5
62.5°	45.3	45.3	45.3	46.0	46.0	46.0	46.0	46.7
65°	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.9
67.5°	29.3	29.3	29.3	30.0	30.0	30.0	30.0	30.0
70°	24.4	24.4	25.1	24.4	25.1	25.1	25.1	25.1
72.5°	16.7	16.7	16.7	16.7	16.7	16.0	16.7	16.0
75°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.3
77.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.7	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



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













(END OF REPORT)