

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: P252446

Luminaire Tested: **LD6B10D010 EU6B10209027 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252446  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6B10D010 EU6B10209027 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 741.0 lumens  
Efficiency: N/A  
Efficacy: 73.7 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

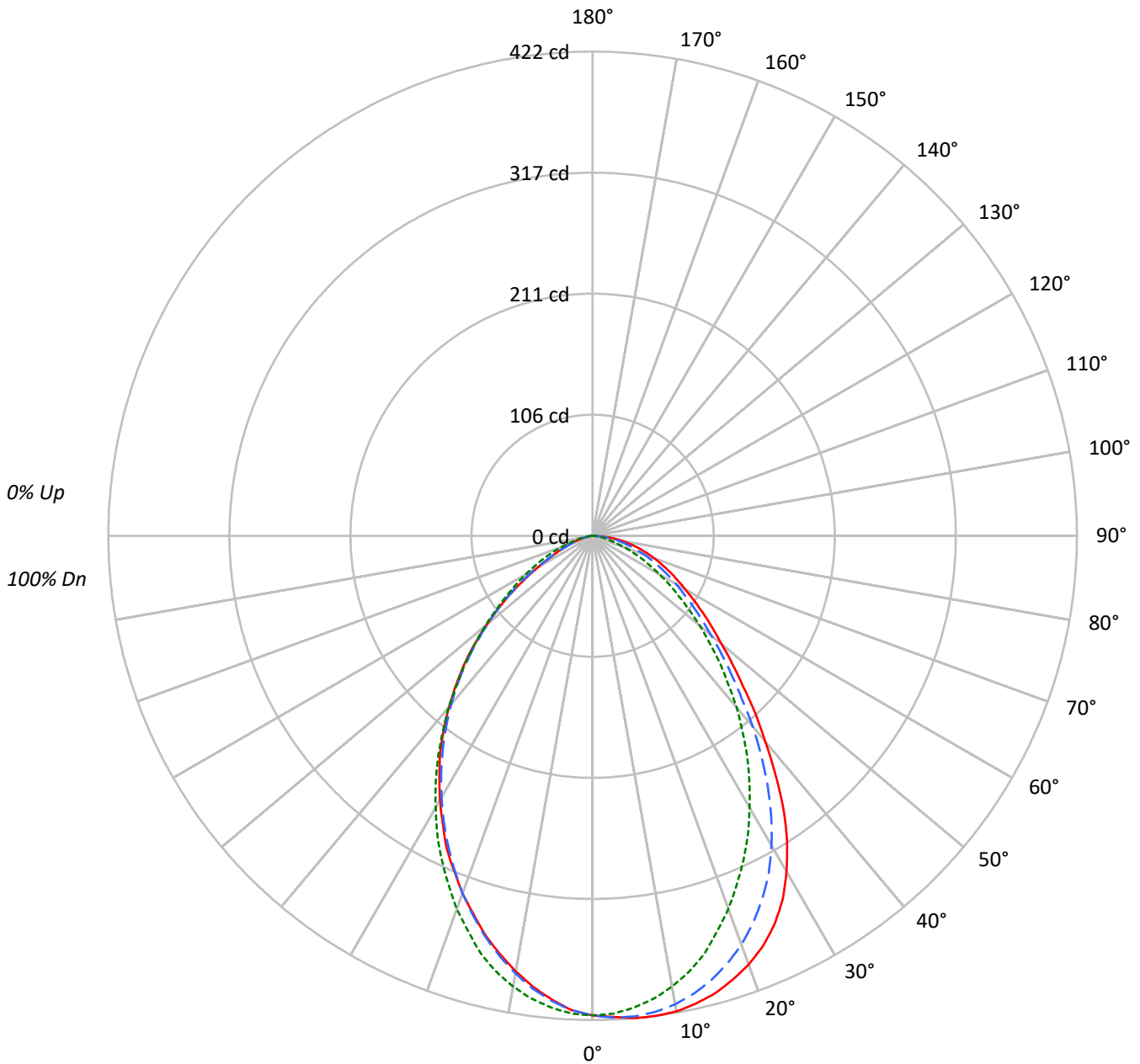
Input Watts (W): 10.05  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				100															
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88				88															
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77															
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67				67															
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59															
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53															
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47															
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43				43															
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				39															
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35				35															
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33				33															

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

	0°	90°	180°
0°	27271	27271	27271
5°	27643	27034	26576
10°	27883	26426	25538
15°	27881	25450	24356
20°	27611	24022	23015
25°	26958	22402	21653
30°	25455	20604	20031
35°	23073	18685	18454
40°	19929	16616	16565
45°	17087	14467	14569
50°	14849	12372	12200
55°	13342	10430	9771
60°	12122	8781	7203
65°	11377	7256	5295
70°	10854	5646	3872
75°	10385	4109	2647
80°	9806	2818	1728
85°	8683	1722	898



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.1	5.3
10°-20°	107.1	14.5
20°-30°	148.7	20.1
30°-40°	154.0	20.8
40°-50°	126.6	17.1
50°-60°	87.0	11.7
60°-70°	50.0	6.7
70°-80°	23.0	3.1
80°-90°	5.6	0.8
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°	294.9	39.8
0°-40°	448.9	60.6
0°-60°	662.4	89.4
0°-90°	741.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	741.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	418	418	418	418	418	
5°	422	420	413	407	406	40
15°	413	401	377	362	361	116
25°	374	350	311	298	301	171
35°	290	266	235	228	232	180
45°	185	171	157	155	158	144
55°	117	106	92	86	86	106
65°	74	64	47	33	34	73
75°	41	32	16	10	10	44
85°	12	8	2	1	1	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°	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0
2.5°	419.8	423.3	420.9	420.4	421.5	421.5	421.5	419.8	420.9	419.2	420.4
5°	422.1	425.0	422.7	421.5	422.7	423.3	421.5	420.4	422.1	419.8	420.4
7.5°	422.1	425.0	422.7	422.1	422.7	422.7	422.1	419.8	420.9	418.6	418.6
10°	420.9	423.3	420.9	419.8	420.4	419.8	419.8	416.9	417.5	414.6	414.6
12.5°	417.5	420.4	417.5	416.3	416.3	416.3	414.6	412.2	412.8	409.3	408.7
15°	412.8	415.1	412.2	411.1	411.1	410.5	409.3	405.8	405.8	402.4	400.6
17.5°	405.8	408.2	405.8	404.1	403.5	402.4	401.2	397.7	396.6	392.5	390.7
20°	397.7	399.5	397.1	395.4	394.2	393.1	390.7	387.3	386.1	382.0	379.1
22.5°	387.3	389.6	386.1	384.4	383.2	381.5	379.1	375.6	373.9	368.7	365.2
25°	374.5	375.6	372.7	371.0	368.7	367.5	365.8	361.1	359.4	353.6	349.5
27.5°	358.2	359.4	355.9	354.7	351.8	350.7	348.4	344.3	342.0	336.2	332.1
30°	337.9	339.1	336.7	335.0	332.7	330.4	328.6	324.6	321.1	315.3	311.8
32.5°	315.3	317.0	314.7	312.4	308.3	308.9	306.0	301.9	299.0	293.8	289.7
35°	289.7	290.9	288.0	287.4	285.1	282.8	279.9	276.9	275.2	269.4	265.9
37.5°	261.3	264.2	261.3	258.9	257.8	256.0	254.3	250.2	249.1	245.6	240.9
40°	234.0	235.7	234.0	231.7	229.9	229.9	227.6	225.3	222.4	218.9	217.1
42.5°	209.6	208.4	207.9	206.7	204.4	203.8	203.2	200.3	198.6	195.1	192.2
45°	185.2	185.8	184.6	184.1	182.3	181.1	180.0	177.7	177.1	173.6	171.3
47.5°	164.9	164.3	163.1	163.1	162.0	160.8	159.7	157.9	157.3	154.4	152.1
50°	146.3	146.9	146.3	145.7	144.0	143.4	142.2	141.1	139.9	137.0	134.7
52.5°	131.2	130.6	130.1	130.1	128.3	127.7	126.6	125.4	124.2	121.3	119.6
55°	117.3	117.3	116.7	116.1	114.4	113.8	113.2	112.1	110.3	108.0	106.3
57.5°	104.5	104.5	103.9	103.3	102.2	102.2	101.0	99.9	98.7	96.4	94.1
60°	92.9	93.5	92.9	92.3	91.2	91.2	90.6	88.8	88.3	85.3	83.6
62.5°	83.0	83.0	83.0	82.4	81.9	80.7	80.7	79.0	77.8	76.1	73.7
65°	73.7	73.7	73.7	73.2	72.0	71.4	70.8	69.7	68.5	66.8	64.4
67.5°	65.0	65.0	65.0	64.4	63.3	62.7	62.1	61.5	59.8	58.1	55.7
70°	56.9	56.9	56.3	55.7	55.2	54.6	54.0	52.8	51.7	49.4	47.6
72.5°	48.8	48.8	48.8	47.6	47.0	47.0	45.9	45.3	44.1	41.8	40.1
75°	41.2	40.6	40.6	40.1	39.5	38.9	38.3	37.7	36.0	34.8	32.5
77.5°	33.7	33.7	33.1	32.5	32.5	31.9	31.4	30.2	29.6	27.9	26.1
80°	26.1	26.1	26.1	26.1	25.5	25.0	25.0	23.8	23.2	21.5	20.3
82.5°	19.7	19.2	19.2	19.2	18.6	18.0	18.0	17.4	16.8	15.7	14.5
85°	11.6	11.0	11.0	11.0	10.5	10.5	9.9	9.9	9.3	8.1	8.1
87.5°	3.5	3.5	4.1	4.1	3.5	3.5	3.5	3.5	3.5	2.9	2.9
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°	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0
2.5°	419.2	420.9	418.6	418.0	420.4	419.2	418.6	417.5	418.0	416.9	415.1
5°	418.6	420.9	418.0	416.3	419.2	417.5	416.3	415.1	415.1	412.8	411.6
7.5°	416.9	418.0	415.1	413.4	415.1	413.4	412.2	410.5	409.9	407.0	405.3
10°	412.2	413.4	409.9	407.6	409.3	407.0	405.3	403.5	402.4	398.9	396.6
12.5°	405.8	406.4	402.4	399.5	400.6	398.9	396.0	393.6	392.5	389.0	386.1
15°	397.1	397.7	393.1	389.0	390.2	387.8	384.4	382.0	380.3	376.8	372.7
17.5°	386.7	386.1	380.9	376.8	377.4	374.5	371.0	367.5	365.2	361.1	358.2
20°	375.1	373.3	367.5	362.9	363.5	360.0	355.9	352.4	349.5	346.0	342.0
22.5°	360.6	358.2	353.0	347.2	347.8	344.9	339.1	336.2	333.3	328.6	325.1
25°	344.9	341.4	336.2	330.4	330.4	326.9	322.2	318.8	315.8	311.2	307.1
27.5°	326.3	324.6	317.6	312.9	312.4	308.9	304.8	300.8	297.3	293.2	289.1
30°	306.0	303.1	297.8	292.6	291.5	288.6	284.5	279.9	277.5	273.5	270.0
32.5°	284.5	281.6	275.8	270.6	270.0	267.7	264.2	259.5	257.2	254.3	252.0
35°	260.1	258.9	253.1	249.1	249.1	246.8	243.3	239.2	237.5	234.6	231.7
37.5°	236.9	235.1	229.9	226.4	226.4	223.5	220.0	218.3	216.6	214.2	212.5
40°	212.5	211.3	207.3	203.8	204.4	202.0	199.7	197.4	196.2	195.1	193.3
42.5°	189.9	188.7	185.8	182.9	182.9	181.1	178.8	177.1	175.9	174.2	173.6
45°	169.5	167.8	165.5	162.6	162.6	160.8	159.7	158.5	157.9	156.8	155.0
47.5°	149.8	148.6	146.3	143.4	143.4	143.4	141.1	139.3	139.3	138.2	137.6
50°	133.0	131.2	129.5	127.2	127.2	126.0	124.2	122.5	122.5	121.9	120.8
52.5°	117.3	116.1	113.8	111.5	111.5	110.3	108.6	108.0	107.4	105.7	105.1
55°	103.9	102.8	101.0	98.1	97.5	97.0	95.2	94.1	93.5	91.7	91.7
57.5°	91.7	90.6	87.7	85.9	85.3	84.2	82.4	81.3	80.7	79.5	78.4
60°	81.3	79.5	77.2	74.9	74.3	73.2	71.4	70.3	69.7	67.3	66.2
62.5°	71.4	69.7	67.3	65.0	64.4	63.3	61.0	59.8	58.6	56.3	55.2
65°	62.1	60.4	58.1	55.7	54.6	54.0	51.7	49.9	48.8	47.0	44.7
67.5°	53.4	51.7	49.4	46.4	46.4	44.7	43.0	41.2	39.5	37.7	36.0
70°	45.3	43.5	41.2	38.9	38.3	37.2	35.4	33.1	31.9	29.6	27.9
72.5°	37.7	36.0	33.7	31.4	30.8	29.6	27.9	25.5	23.8	22.1	20.3
75°	30.8	29.0	26.7	25.0	24.4	23.2	21.5	19.2	17.4	16.3	14.5
77.5°	24.4	22.6	20.9	19.2	18.6	17.4	15.7	14.5	12.8	11.6	9.9
80°	18.6	17.4	15.7	14.5	13.9	12.8	11.6	9.9	8.7	7.5	7.0
82.5°	13.4	12.2	11.0	9.3	9.3	8.1	7.5	6.4	5.2	4.6	4.1
85°	7.5	6.4	5.8	5.2	4.6	4.6	4.1	3.5	2.9	2.3	2.3
87.5°	2.3	2.3	1.7	1.7	1.7	1.7	1.2	1.2	1.2	1.2	1.2
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°	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0
2.5°	415.1	415.7	414.6	415.7	414.6	415.1	414.0	415.1	414.0	415.1	412.8
5°	411.1	411.1	409.3	410.5	409.3	409.9	407.6	408.2	407.0	408.2	405.8
7.5°	404.1	404.7	401.8	402.9	401.2	401.2	399.5	400.0	398.3	398.9	397.1
10°	396.0	395.4	392.5	393.6	391.3	391.3	389.6	389.6	387.3	387.8	385.5
12.5°	384.4	383.8	380.3	381.5	379.1	379.1	377.4	377.4	375.1	376.2	373.9
15°	371.0	370.4	366.9	367.5	365.2	365.2	362.9	363.5	361.7	362.9	360.6
17.5°	355.9	355.3	351.8	352.4	349.5	350.1	348.4	347.8	346.6	347.2	345.5
20°	340.2	339.1	335.6	336.2	335.0	333.3	332.1	332.7	331.5	332.7	330.9
22.5°	324.0	321.7	318.8	318.8	317.6	317.6	315.8	317.0	314.7	316.4	315.3
25°	305.4	303.7	301.3	302.5	300.2	300.2	298.4	299.0	297.8	299.0	297.8
27.5°	287.4	286.2	282.8	283.9	282.2	282.8	281.0	281.6	281.0	282.2	281.0
30°	268.2	267.7	265.3	265.3	264.8	264.2	263.6	263.6	263.0	264.8	263.6
32.5°	250.2	248.5	246.2	247.9	245.0	246.8	245.6	246.8	245.6	246.8	246.2
35°	231.7	231.1	228.2	228.8	228.2	228.2	227.6	227.6	227.6	229.3	229.3
37.5°	211.9	211.3	209.6	210.2	209.0	208.4	208.4	209.6	209.6	210.8	210.8
40°	192.8	193.3	191.6	191.6	191.0	191.0	191.0	192.2	191.6	192.8	192.2
42.5°	173.6	173.6	171.9	172.4	171.9	172.4	172.4	173.6	173.6	174.2	173.6
45°	155.6	155.6	155.0	155.6	154.4	155.0	154.4	155.6	155.0	155.6	155.6
47.5°	137.6	137.6	137.6	137.0	137.0	137.0	137.0	137.0	136.4	137.6	137.0
50°	120.8	121.3	120.8	120.8	120.2	120.8	120.2	120.2	119.0	119.6	119.6
52.5°	105.7	105.7	104.5	104.5	104.5	103.9	103.9	103.9	103.3	103.3	102.2
55°	91.2	91.2	90.0	90.0	89.4	88.8	88.3	88.3	86.5	86.5	84.8
57.5°	77.8	77.2	75.5	75.5	74.3	73.7	73.2	72.6	71.4	70.3	69.7
60°	65.6	64.4	63.3	62.7	61.5	60.4	59.2	58.1	56.9	56.3	55.7
62.5°	54.0	52.3	51.1	50.5	49.4	47.6	46.4	45.3	44.1	43.5	42.4
65°	43.5	41.8	40.1	39.5	38.3	37.2	35.4	34.3	33.1	32.5	32.5
67.5°	34.3	32.5	30.2	30.2	29.0	27.9	26.7	25.5	25.0	25.5	25.5
70°	25.5	24.4	22.6	22.1	20.9	19.7	19.2	19.2	19.2	19.7	19.2
72.5°	19.2	17.4	16.3	15.7	15.1	14.5	14.5	14.5	13.9	14.5	14.5
75°	13.4	12.2	11.0	11.0	10.5	10.5	10.5	10.5	10.5	10.5	10.5
77.5°	9.3	8.1	7.5	7.5	7.5	7.0	7.0	7.0	7.0	7.0	7.0
80°	5.8	5.8	5.2	5.2	4.6	4.6	4.6	4.6	4.6	4.6	4.6
82.5°	3.5	3.5	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
85°	1.7	1.7	1.7	1.7	1.7	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2
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°	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0
2.5°	412.8	414.6	412.2	414.0	413.4	412.8	411.6	414.0
5°	405.8	406.4	404.1	406.4	405.8	404.7	403.5	405.8
7.5°	396.0	397.7	394.8	397.1	396.6	395.4	394.2	396.6
10°	384.9	386.7	384.4	386.1	386.1	384.9	383.2	385.5
12.5°	372.7	373.9	371.6	373.9	373.3	372.2	371.6	373.3
15°	359.4	361.1	358.8	360.6	360.0	359.4	358.8	360.6
17.5°	344.9	346.6	344.9	346.6	346.6	344.9	344.3	345.5
20°	330.4	331.5	329.8	331.5	330.9	330.9	329.8	331.5
22.5°	314.1	315.8	314.7	315.8	315.3	315.3	314.7	315.8
25°	297.8	299.6	297.8	299.6	299.0	299.0	297.8	300.8
27.5°	281.6	282.8	281.0	283.3	282.8	281.6	282.2	282.8
30°	264.2	265.3	264.2	265.9	265.9	265.9	264.8	265.9
32.5°	246.8	248.5	246.8	248.5	247.9	247.9	247.3	248.5
35°	229.3	229.9	228.8	230.5	230.5	231.1	229.9	231.7
37.5°	211.3	211.9	211.3	211.9	213.1	211.3	212.5	213.1
40°	192.8	193.9	193.3	193.9	193.9	194.5	193.9	194.5
42.5°	174.2	175.3	174.2	175.9	175.3	175.3	175.9	175.9
45°	155.0	156.8	155.6	156.8	157.3	156.8	156.8	157.9
47.5°	137.0	138.2	137.6	138.2	138.2	138.2	138.2	139.3
50°	119.0	119.6	119.6	120.2	120.2	120.8	119.6	120.2
52.5°	101.0	102.2	102.2	102.2	101.6	102.2	102.2	102.2
55°	84.8	85.3	84.2	85.3	85.3	84.8	84.8	85.9
57.5°	69.1	69.1	69.1	69.1	69.1	68.5	69.1	69.1
60°	54.6	55.2	54.6	54.6	54.6	54.6	54.0	55.2
62.5°	42.4	42.4	41.8	42.4	42.4	42.4	43.0	43.0
65°	33.1	33.7	33.1	33.7	33.7	33.7	33.7	34.3
67.5°	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1
70°	19.7	19.7	19.7	20.3	19.7	19.7	19.7	20.3
72.5°	14.5	14.5	14.5	14.5	14.5	14.5	15.1	15.1
75°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
77.5°	7.0	7.0	7.0	7.5	7.0	7.5	7.0	7.0
80°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
82.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6
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)