

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: P252348

Luminaire Tested: **LD6B10D010 EU6B10209730 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252348
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: LD6B10D010 EU6B10209730 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 717.0 lumens
Efficiency: N/A
Efficacy: 71.3 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

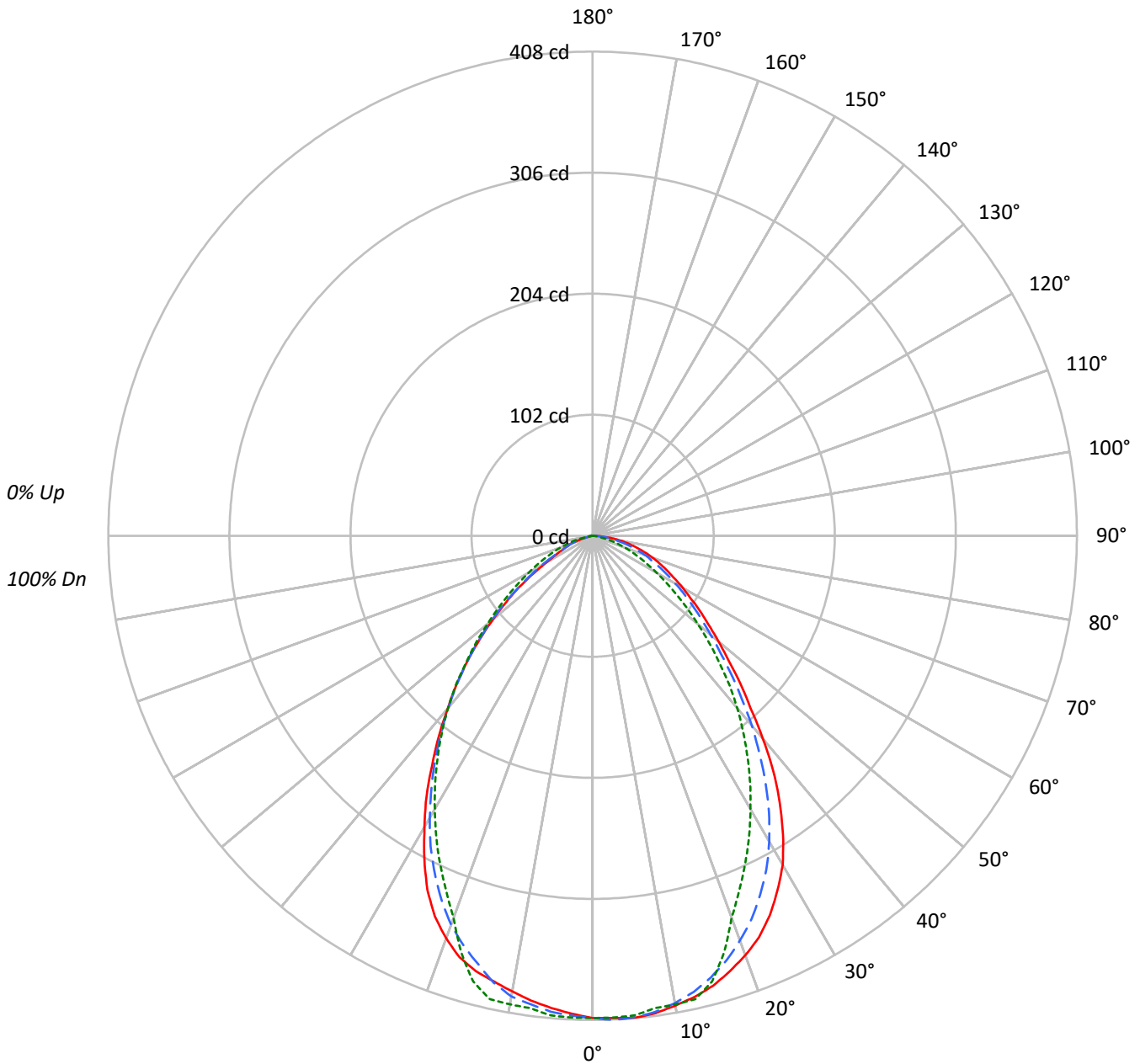
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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																			
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°	26507	26507	26507
5°	26707	26569	26157
10°	26631	26565	25830
15°	26510	26260	25659
20°	26119	23772	25056
25°	25411	21912	23697
30°	24129	20031	21342
35°	21894	18111	18780
40°	19009	16130	16173
45°	16211	13877	13729
50°	14027	11723	11083
55°	12546	9782	8576
60°	11430	8129	5780
65°	10667	6684	4322
70°	10167	5436	3624
75°	9579	3857	1185
80°	9130	1991	413
85°	7486	1198	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.4	5.4
10°-20°	107.3	15.0
20°-30°	148.1	20.7
30°-40°	150.7	21.0
40°-50°	121.1	16.9
50°-60°	80.5	11.2
60°-70°	45.9	6.4
70°-80°	20.6	2.9
80°-90°	4.3	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°	293.8	41.0
0°-40°	444.5	62.0
0°-60°	646.1	90.1
0°-90°	717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	717.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	406	406	406	406	406	
5°	408	407	406	403	399	39
15°	392	385	389	374	380	110
25°	353	334	304	314	329	162
35°	275	254	227	232	236	171
45°	176	165	150	149	149	136
55°	110	103	86	76	75	99
65°	69	62	43	28	28	69
75°	38	32	15	6	5	41
85°	10	7	2	0	0	12
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°	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3
2.5°	406.8	408.9	408.4	407.8	408.4	407.8	406.8	406.8	405.7	405.7	408.4
5°	407.8	408.9	408.4	407.8	407.8	408.4	406.3	406.3	405.2	404.7	407.3
7.5°	405.7	407.3	406.3	406.3	405.7	406.3	404.1	404.1	402.6	402.0	404.7
10°	402.0	404.1	403.1	403.1	403.1	402.0	401.0	400.5	398.9	398.3	399.9
12.5°	397.8	399.4	398.9	397.8	397.8	397.8	395.7	395.2	393.1	392.0	393.6
15°	392.5	393.6	393.1	392.5	391.5	391.5	389.4	388.3	386.2	384.1	385.2
17.5°	384.6	386.2	385.2	384.6	383.0	383.0	380.9	379.9	376.7	374.6	375.1
20°	376.2	376.7	376.2	375.1	373.5	373.0	370.9	368.8	366.2	363.5	363.0
22.5°	366.2	366.7	365.1	364.0	362.5	361.9	359.3	357.7	353.5	350.3	349.8
25°	353.0	353.5	353.5	350.9	349.8	348.7	346.1	343.5	339.8	335.6	334.0
27.5°	337.1	338.7	337.7	335.0	332.9	332.4	329.8	327.6	322.9	319.2	317.1
30°	320.3	319.7	319.2	317.6	314.5	313.9	311.3	308.7	305.0	300.2	297.6
32.5°	298.6	298.6	298.1	296.5	293.4	292.3	290.2	287.0	282.8	279.1	276.5
35°	274.9	275.4	274.9	271.7	269.6	268.6	267.5	263.8	260.1	255.9	253.8
37.5°	250.1	248.5	249.0	246.4	243.8	244.8	241.6	240.1	235.8	232.7	230.6
40°	223.2	224.2	222.1	221.1	219.5	217.9	217.9	215.3	213.2	209.5	208.4
42.5°	196.8	198.4	197.9	196.8	194.7	195.2	192.6	191.5	188.9	187.3	185.7
45°	175.7	175.7	175.7	174.6	174.1	173.1	171.5	169.9	168.3	166.2	165.1
47.5°	155.1	155.1	155.6	154.6	153.5	153.0	152.0	152.0	149.3	147.2	146.1
50°	138.2	138.2	138.2	137.2	136.1	136.1	135.1	134.0	132.4	130.8	129.8
52.5°	122.9	122.9	122.9	121.9	121.3	120.8	120.3	119.8	117.7	116.6	115.5
55°	110.3	109.7	109.7	109.2	108.2	108.2	107.6	106.6	105.0	103.4	102.9
57.5°	97.6	98.1	97.6	97.6	96.6	96.6	95.5	95.0	93.4	92.3	91.3
60°	87.6	87.6	87.6	87.1	86.0	86.5	85.5	84.9	83.4	81.8	80.7
62.5°	77.6	78.1	78.1	77.6	76.5	76.5	76.0	75.4	73.9	72.3	70.7
65°	69.1	69.1	69.1	68.6	68.1	68.1	67.5	67.0	65.4	63.3	61.7
67.5°	61.2	60.7	60.7	60.7	60.1	59.6	59.1	58.6	57.0	55.4	53.3
70°	53.3	53.3	53.3	52.8	51.7	52.2	51.7	51.2	49.6	48.0	46.4
72.5°	45.9	45.9	45.4	44.8	44.8	44.3	44.3	43.8	42.2	40.1	38.5
75°	38.0	38.0	38.0	38.0	36.9	37.5	36.4	35.9	34.8	33.2	31.7
77.5°	31.1	31.1	31.1	30.6	30.1	30.1	29.5	29.0	27.4	26.4	24.3
80°	24.3	24.3	24.3	24.3	23.7	23.2	22.7	22.2	21.1	19.5	17.9
82.5°	17.9	17.9	17.4	17.4	17.4	16.9	16.4	15.8	14.8	13.7	12.7
85°	10.0	10.6	10.6	9.5	10.0	9.5	9.5	8.4	8.4	7.4	6.9
87.5°	3.7	3.2	3.2	3.2	3.2	3.2	3.2	2.6	2.6	2.6	2.1
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°	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3
2.5°	406.3	405.7	407.8	407.8	404.7	406.3	406.8	405.7	405.7	406.3	404.7
5°	405.2	404.1	406.3	406.8	403.6	405.2	405.7	404.7	405.2	405.7	403.6
7.5°	401.5	401.5	403.1	403.6	400.5	402.0	402.0	401.0	401.5	401.5	399.9
10°	397.8	396.2	397.8	397.8	395.2	395.7	396.8	396.2	398.3	401.0	401.0
12.5°	391.0	389.4	392.0	392.0	390.4	392.5	395.2	396.8	398.9	399.9	396.8
15°	382.5	383.0	387.8	391.5	389.9	393.1	395.7	394.7	392.0	388.8	384.1
17.5°	371.4	369.9	374.1	376.2	374.1	375.1	377.2	375.1	370.9	368.3	361.9
20°	358.8	354.6	354.6	353.5	349.8	349.8	349.3	345.6	344.0	342.4	339.8
22.5°	344.5	339.8	338.2	335.0	331.9	331.3	329.8	326.1	324.0	322.9	319.7
25°	328.2	324.0	321.3	318.1	313.4	312.3	310.8	307.1	306.0	304.4	301.8
27.5°	311.3	306.0	302.3	299.2	294.9	294.4	291.2	288.6	286.5	285.4	283.3
30°	291.8	286.0	283.3	279.1	275.9	274.9	272.2	268.6	267.0	265.9	264.3
32.5°	270.1	265.4	262.7	259.1	254.8	255.4	252.2	249.0	248.0	246.9	245.3
35°	249.0	244.3	241.1	238.0	235.3	234.3	232.1	229.5	227.9	227.4	226.3
37.5°	225.8	222.1	219.5	216.3	214.2	213.2	212.1	209.5	208.4	208.4	206.3
40°	203.1	200.0	197.9	196.3	193.6	193.1	192.0	190.5	189.9	189.4	187.8
42.5°	182.6	178.3	176.7	175.7	174.1	173.1	172.5	171.5	170.9	170.4	168.8
45°	163.0	159.3	157.8	156.7	155.1	154.6	154.1	152.5	151.4	150.4	149.8
47.5°	144.0	141.4	140.9	138.2	137.2	136.1	135.1	134.0	133.5	133.0	130.8
50°	127.7	126.1	123.5	121.9	120.8	120.3	118.2	116.6	116.1	115.5	114.0
52.5°	112.9	110.8	109.2	106.6	106.0	105.0	103.9	101.8	100.8	100.2	98.7
55°	99.7	98.1	96.0	93.9	92.3	91.8	90.2	88.1	87.1	86.0	84.9
57.5°	88.6	86.0	83.9	81.8	80.7	79.1	77.6	76.5	74.9	73.3	71.8
60°	78.1	76.0	73.3	71.2	70.2	69.1	67.0	65.4	63.8	62.3	60.7
62.5°	68.1	66.0	63.3	61.2	60.1	59.1	57.0	55.4	53.8	52.2	50.1
65°	59.1	57.0	54.9	52.8	51.7	50.7	48.5	46.4	44.8	43.3	41.2
67.5°	51.7	49.1	47.0	44.8	43.8	42.7	40.6	39.0	36.9	35.3	33.2
70°	43.8	41.7	40.1	38.0	36.9	35.9	33.8	31.7	30.1	28.5	26.4
72.5°	36.9	34.3	32.7	30.6	29.5	29.0	26.9	25.3	23.7	21.6	20.0
75°	29.5	27.4	25.3	23.7	22.7	22.2	20.0	18.5	16.9	15.3	13.7
77.5°	22.7	21.1	19.0	17.4	16.4	15.8	13.7	12.1	10.6	9.5	7.9
80°	16.9	14.8	13.7	12.1	11.6	10.6	9.5	7.9	6.9	5.3	4.2
82.5°	11.6	10.0	9.0	7.9	7.4	6.9	5.8	4.7	3.7	3.2	2.6
85°	6.3	5.3	4.7	4.2	3.7	3.7	3.2	2.6	2.1	1.6	1.1
87.5°	2.1	1.6	1.6	1.6	1.6	1.1	1.1	1.1	0.5	0.5	0.5
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3
2.5°	405.7	405.7	405.7	405.2	405.2	405.2	404.7	406.8	404.7	404.1	405.7
5°	405.2	404.1	404.1	404.1	404.1	403.6	403.1	404.1	402.6	402.0	402.0
7.5°	402.0	401.5	401.5	401.0	400.5	399.9	399.4	399.9	398.3	397.8	397.8
10°	402.6	401.5	401.5	399.9	398.9	397.3	395.7	396.2	394.1	392.5	392.5
12.5°	396.2	393.6	392.0	390.4	389.4	388.8	386.7	387.8	385.7	385.2	385.2
15°	382.0	378.8	376.2	375.1	375.1	374.1	372.5	374.6	373.5	374.1	376.7
17.5°	359.8	358.2	356.7	356.1	356.7	357.7	358.8	361.9	361.9	363.5	366.2
20°	340.3	339.3	340.3	340.3	340.8	342.9	345.1	347.7	348.7	350.3	354.0
22.5°	321.3	321.3	322.4	324.0	323.4	327.1	327.6	332.4	332.4	335.6	338.7
25°	302.8	302.8	303.9	304.4	305.5	307.6	309.7	313.4	314.5	317.6	320.3
27.5°	284.9	284.4	284.4	284.9	286.0	288.6	289.7	293.9	295.5	297.6	300.2
30°	264.9	264.3	265.4	266.4	265.9	268.6	270.1	273.3	274.4	276.5	278.6
32.5°	245.9	245.9	245.9	246.9	246.9	249.0	249.0	252.7	252.7	254.3	256.4
35°	226.3	226.3	226.9	227.4	227.9	228.5	229.0	231.1	231.6	232.1	233.2
37.5°	207.9	207.3	207.9	207.9	206.8	208.9	208.9	211.0	209.5	211.0	211.6
40°	188.9	188.9	188.4	188.4	188.4	189.4	188.4	189.9	188.9	189.9	189.4
42.5°	169.4	169.4	168.3	169.4	168.8	168.8	168.8	169.9	168.3	169.4	169.9
45°	149.8	149.3	149.3	148.8	148.8	148.8	149.3	149.3	148.8	149.8	149.8
47.5°	130.8	130.3	130.3	130.3	130.3	130.8	129.3	130.3	129.3	129.3	129.3
50°	114.5	114.0	113.4	112.9	112.4	112.4	111.9	111.9	110.8	110.3	109.7
52.5°	98.7	98.1	97.1	97.1	96.6	96.0	94.4	94.4	92.9	92.3	92.3
55°	84.4	82.8	82.3	81.3	81.3	80.2	79.1	78.1	76.5	75.4	75.4
57.5°	71.2	69.6	68.6	68.1	67.5	66.5	64.4	63.8	61.7	61.2	60.7
60°	59.6	58.0	56.5	55.4	54.9	53.3	51.2	50.1	49.1	47.5	45.9
62.5°	48.5	47.0	44.8	44.3	43.3	41.7	40.1	38.5	37.5	35.9	34.8
65°	39.0	37.5	35.9	34.8	33.8	32.2	30.6	29.0	28.0	27.4	26.9
67.5°	31.7	29.5	28.0	27.4	26.4	25.3	23.7	23.2	22.2	22.2	22.2
70°	24.8	23.2	21.6	21.1	20.6	19.5	18.5	18.5	18.5	18.5	18.5
72.5°	18.5	17.4	15.8	15.3	14.8	14.2	13.2	13.7	13.2	13.2	13.2
75°	11.6	10.6	9.5	9.0	8.4	7.9	7.4	6.9	6.3	5.8	5.8
77.5°	6.3	5.3	4.7	4.2	4.2	3.7	3.2	3.2	2.6	2.6	2.6
80°	3.7	3.2	2.6	2.1	2.1	1.6	1.6	1.6	1.6	1.1	1.1
82.5°	2.1	1.6	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5
85°	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3
2.5°	403.1	404.7	403.1	404.7	404.7	404.7	404.7	403.1
5°	400.5	401.5	399.9	401.0	401.5	401.0	401.0	399.4
7.5°	395.7	396.8	395.2	396.8	397.3	396.8	396.2	395.2
10°	391.0	391.5	389.9	391.0	392.0	392.0	391.5	389.9
12.5°	383.6	385.2	383.6	384.6	385.7	386.2	386.2	384.6
15°	375.1	377.8	376.7	378.3	379.9	380.4	380.4	379.9
17.5°	366.7	369.3	367.7	370.4	372.0	373.0	373.5	372.5
20°	354.6	357.7	356.7	358.8	360.9	362.5	362.5	360.9
22.5°	338.7	342.9	342.4	344.0	346.6	347.2	348.2	347.2
25°	321.3	324.5	324.0	325.5	328.7	328.7	329.2	329.2
27.5°	301.3	304.4	303.9	305.0	307.1	307.6	308.1	307.1
30°	279.6	281.2	281.2	282.8	284.4	284.9	284.9	283.3
32.5°	255.9	258.0	259.1	258.5	260.1	261.2	260.6	260.6
35°	234.3	234.8	235.3	235.8	236.4	237.4	236.4	235.8
37.5°	211.0	212.6	211.6	212.6	213.7	213.2	212.6	212.6
40°	189.9	190.5	189.4	190.5	191.0	191.0	191.0	189.9
42.5°	168.8	169.9	168.8	169.9	169.9	169.9	169.9	169.4
45°	147.7	148.8	148.8	149.3	149.3	148.8	148.8	148.8
47.5°	128.2	129.3	128.2	129.3	129.8	128.7	128.7	128.7
50°	109.7	109.2	109.2	109.7	109.7	109.7	109.7	109.2
52.5°	90.7	91.3	91.3	91.3	91.8	91.3	91.8	91.8
55°	74.4	74.4	74.4	74.9	74.4	74.4	74.9	75.4
57.5°	59.6	59.1	58.6	58.6	59.1	58.6	58.6	58.6
60°	45.9	45.4	44.8	44.8	44.8	44.8	44.8	44.3
62.5°	34.3	34.3	34.3	34.8	34.8	34.8	34.8	35.3
65°	27.4	27.4	27.4	27.4	27.4	27.4	27.4	28.0
67.5°	22.2	22.2	22.2	22.7	22.7	22.7	22.7	22.7
70°	18.5	18.5	19.0	18.5	19.0	19.0	19.0	19.0
72.5°	12.7	12.7	12.7	12.7	12.7	12.1	12.7	12.1
75°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	4.7
77.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.5	0.5	0.5	0.5	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)