

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: P252243

Luminaire Tested: **LD6B10D010 EU6B10209727 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252243
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B10D010 EU6B10209727 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 702.0 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

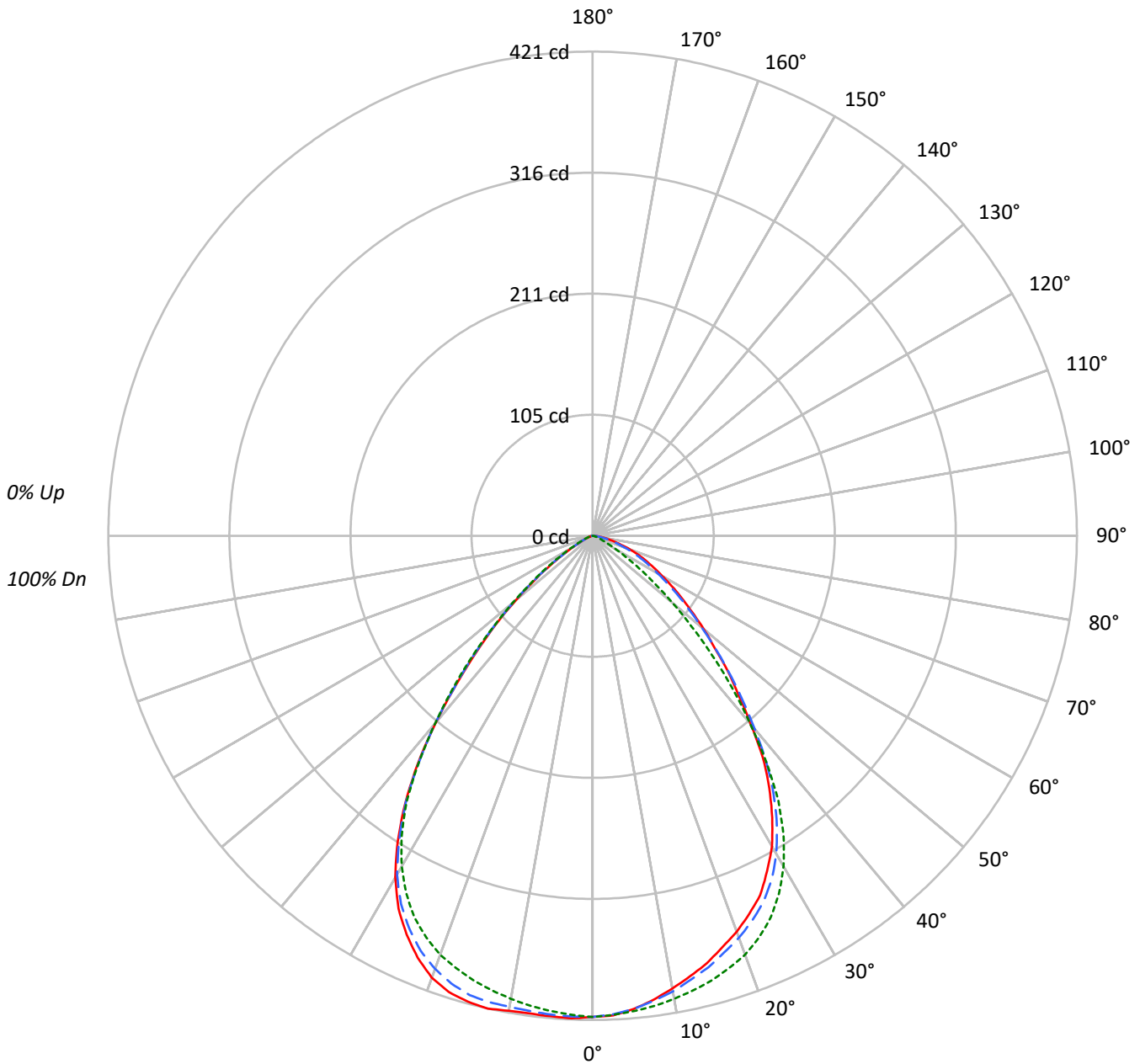
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	27297	27297	27297
5°	27041	27172	27466
10°	26479	27082	27784
15°	25977	27030	28327
20°	25438	26910	28382
25°	24813	26375	27541
30°	23489	25011	25847
35°	21329	22420	22619
40°	18208	18123	18030
45°	15297	13572	13148
50°	12768	9185	8719
55°	10749	5630	5118
60°	9095	2962	2570
65°	7873	1559	1250
70°	6562	973	668
75°	4840	630	378
80°	3795	376	188
85°	2994	374	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.4	5.6
10°-20°	112.9	16.1
20°-30°	166.7	23.8
30°-40°	171.8	24.5
40°-50°	118.7	16.9
50°-60°	58.5	8.3
60°-70°	23.7	3.4
70°-80°	8.4	1.2
80°-90°	1.7	0.2
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°	319.1	45.5
0°-40°	490.9	69.9
0°-60°	668.1	95.2
0°-90°	702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	702.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	418	418	418	418	418	
5°	413	413	415	418	419	39
15°	385	389	400	413	419	108
25°	345	351	366	377	383	158
35°	268	274	282	283	284	166
45°	166	167	147	145	142	128
55°	94	91	50	46	45	85
65°	51	46	10	8	8	51
75°	19	16	2	2	2	22
85°	4	3	0	0	0	5
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°	418.4	418.4	418.4	418.4	418.4	418.4	418.4	418.4	418.4	418.4	418.4
2.5°	417.4	415.9	416.9	414.9	417.4	414.9	415.4	415.9	415.4	415.9	416.4
5°	412.9	411.4	412.9	410.3	412.9	411.4	411.4	411.9	411.9	412.4	412.9
7.5°	406.8	405.3	406.8	404.3	407.3	405.8	405.8	406.8	406.3	406.8	407.8
10°	399.7	397.7	399.2	397.7	400.7	398.7	399.7	399.7	399.7	401.3	402.3
12.5°	392.2	390.1	392.2	389.6	392.7	391.1	391.7	393.2	393.7	394.7	395.2
15°	384.6	382.0	383.1	381.5	384.6	383.1	383.6	385.6	385.6	387.1	388.6
17.5°	375.0	373.0	375.0	373.0	375.5	374.5	375.5	377.0	377.0	378.5	380.0
20°	366.4	364.4	365.9	364.4	367.4	365.9	366.4	368.4	368.9	370.4	371.9
22.5°	355.8	354.3	355.3	353.7	356.8	355.8	356.3	358.3	358.8	359.8	362.3
25°	344.7	341.6	343.1	342.1	345.2	343.6	344.7	346.7	347.7	349.2	351.2
27.5°	328.5	327.0	328.0	328.0	330.5	329.0	329.5	331.5	333.0	334.5	337.1
30°	311.8	309.3	310.3	310.8	312.8	311.8	312.8	314.8	315.3	317.4	319.4
32.5°	290.6	289.6	291.6	290.6	291.6	291.6	292.1	293.6	294.6	295.6	298.2
35°	267.8	265.8	267.8	266.8	269.4	267.8	269.4	270.9	270.9	272.9	274.4
37.5°	243.1	240.5	241.6	241.6	242.6	242.1	242.1	244.6	245.1	246.6	248.1
40°	213.8	212.8	214.8	214.3	214.8	214.8	215.3	216.8	217.8	218.3	218.8
42.5°	187.5	188.0	188.5	188.5	188.5	188.5	188.5	190.5	190.0	191.5	192.0
45°	165.8	163.7	164.7	164.2	165.8	164.2	165.8	167.3	166.3	167.8	166.8
47.5°	143.5	143.5	143.5	143.0	144.0	143.5	144.5	145.0	145.0	145.0	144.5
50°	125.8	124.3	124.8	124.8	125.3	124.8	125.8	126.3	126.3	125.3	123.3
52.5°	108.7	108.1	108.1	109.2	109.2	108.7	108.7	108.7	108.7	107.1	106.1
55°	94.5	93.5	94.0	94.0	94.0	94.0	94.5	94.0	94.0	92.5	91.0
57.5°	81.9	80.9	80.9	80.9	81.4	80.9	80.9	80.9	80.4	78.8	76.8
60°	69.7	69.2	69.7	69.7	70.2	69.7	69.7	69.7	68.7	67.2	65.2
62.5°	59.6	59.6	59.6	60.1	60.1	59.6	59.6	59.1	58.6	56.6	54.6
65°	51.0	50.5	51.0	51.0	51.5	51.5	51.0	50.5	50.0	48.0	46.0
67.5°	42.4	41.9	42.4	42.4	43.0	42.4	42.4	42.4	40.9	39.9	37.9
70°	34.4	33.9	33.9	33.9	34.4	33.4	33.9	33.9	32.8	31.3	29.3
72.5°	26.3	26.3	26.3	26.3	26.3	26.3	25.8	25.8	24.8	23.2	22.2
75°	19.2	19.2	19.7	19.7	19.2	19.2	19.2	18.7	18.2	17.2	16.2
77.5°	14.1	14.1	14.1	14.1	13.6	13.6	13.6	13.1	12.6	12.1	11.1
80°	10.1	10.1	10.1	9.6	10.1	9.6	9.6	9.6	8.6	8.1	7.6
82.5°	7.1	6.6	6.6	6.6	6.6	6.6	6.6	6.1	6.1	5.6	5.1
85°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.5	3.0	3.0
87.5°	2.0	2.5	2.5	2.5	2.5	2.5	2.5	2.0	2.0	2.0	1.5
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°	418.4	418.4	418.4	418.4	418.4	418.4	418.4	418.4	418.4	418.4	418.4
2.5°	416.4	416.4	417.4	415.9	418.4	416.9	416.4	418.9	417.4	416.9	417.9
5°	412.9	413.4	413.9	412.9	415.4	413.9	413.9	416.4	415.4	414.9	416.4
7.5°	408.3	408.8	409.8	409.3	411.4	410.3	410.9	413.4	412.4	412.4	413.9
10°	402.8	403.8	404.8	404.8	407.3	406.3	406.3	409.3	408.3	408.8	410.9
12.5°	396.2	397.7	399.2	399.7	402.3	400.7	401.3	404.8	404.3	404.8	406.8
15°	389.1	391.1	392.7	392.7	395.7	394.2	395.7	399.2	398.2	400.2	402.8
17.5°	381.0	383.1	385.1	385.6	388.6	387.6	389.6	393.2	393.2	394.2	397.2
20°	373.5	376.0	377.0	378.5	381.5	381.0	382.0	386.1	386.1	387.6	390.6
22.5°	363.4	365.9	367.9	369.4	371.9	371.9	373.5	377.0	377.0	378.0	381.0
25°	352.2	355.3	356.8	358.3	360.8	360.3	361.8	364.9	365.4	366.4	369.4
27.5°	338.1	340.6	342.6	343.6	347.2	345.2	346.7	350.2	349.7	350.7	353.2
30°	320.4	322.9	324.9	324.9	328.0	328.0	329.5	331.0	331.0	332.0	334.0
32.5°	299.7	302.7	302.7	304.2	306.2	304.2	306.2	308.3	307.3	308.8	310.3
35°	275.9	277.4	277.9	277.9	279.5	279.0	278.5	280.0	279.0	281.5	283.0
37.5°	247.1	249.1	248.1	249.1	248.6	247.1	247.1	249.6	247.6	248.1	249.6
40°	219.3	219.3	218.8	216.3	216.8	215.3	214.8	215.3	213.3	212.8	214.8
42.5°	190.5	190.0	188.5	185.0	185.5	182.9	180.9	180.9	179.9	179.4	179.9
45°	164.7	163.2	160.7	156.7	155.6	153.6	149.6	148.6	147.1	147.1	147.6
47.5°	141.0	139.0	134.9	130.4	127.9	125.3	121.3	119.8	117.2	116.2	117.2
50°	121.3	117.7	112.7	106.1	103.6	100.6	96.5	94.0	91.5	90.5	90.0
52.5°	103.1	98.0	93.0	84.9	82.9	79.8	74.3	71.8	69.2	67.2	67.2
55°	87.4	82.9	75.8	68.2	65.2	62.2	56.6	53.1	50.5	49.5	48.5
57.5°	73.3	68.2	61.7	53.6	50.5	47.5	41.9	38.4	35.9	34.4	33.4
60°	61.7	56.1	49.5	42.4	38.9	35.9	30.3	26.8	24.3	22.7	21.7
62.5°	50.5	46.0	39.4	32.8	29.8	26.8	22.2	18.7	16.2	15.2	13.6
65°	42.4	37.9	31.8	26.3	23.8	20.7	16.7	13.6	11.6	10.1	9.1
67.5°	34.4	30.8	25.8	20.7	18.2	16.2	12.6	10.1	8.1	7.1	6.6
70°	27.3	23.8	19.7	15.7	14.1	12.1	9.6	7.1	6.1	5.1	4.5
72.5°	20.2	17.7	14.7	11.6	10.1	9.1	6.6	5.6	4.0	3.5	3.0
75°	14.7	12.6	10.6	8.1	7.1	6.6	5.1	3.5	3.0	2.5	2.0
77.5°	10.1	9.1	7.1	5.6	5.1	4.5	3.5	2.5	2.0	1.5	1.5
80°	6.6	5.6	4.5	3.5	3.5	3.0	2.0	1.5	1.5	1.0	1.0
82.5°	4.0	3.5	3.0	2.5	2.0	2.0	1.5	1.0	1.0	0.5	0.5
85°	2.5	2.0	1.5	1.5	1.0	1.0	1.0	0.5	0.5	0.5	0.5
87.5°	1.0	1.0	1.0	0.5	0.5	0.5	0.5	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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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	418.4	418.4	418.4	418.4	418.4	418.4	418.4	418.4	418.4	418.4	418.4
2.5°	417.9	417.9	418.9	417.4	418.4	418.4	419.4	417.4	418.4	418.9	420.0
5°	415.9	416.4	417.4	416.9	417.4	417.4	418.4	415.9	417.9	417.9	419.4
7.5°	413.9	413.9	414.9	414.4	415.4	415.9	416.9	414.9	416.9	416.9	418.4
10°	411.4	411.4	412.9	412.4	413.9	414.4	415.9	413.9	415.9	416.4	417.9
12.5°	407.8	408.3	409.8	409.8	411.4	412.4	413.9	412.9	415.4	415.9	417.9
15°	403.8	404.8	406.8	406.3	407.8	409.3	411.4	409.8	413.4	414.4	416.4
17.5°	398.7	399.7	401.3	401.3	402.8	403.8	406.3	405.3	408.3	408.8	411.4
20°	391.1	392.7	394.7	394.2	395.7	396.7	398.7	397.7	400.7	401.8	404.3
22.5°	382.0	383.1	384.6	384.6	386.1	387.1	389.1	387.6	390.6	391.1	393.2
25°	369.9	370.9	371.9	372.4	374.0	374.5	375.5	374.5	377.0	377.5	380.0
27.5°	354.3	354.8	356.3	356.3	357.3	357.8	359.3	357.3	360.8	360.8	362.3
30°	335.6	335.1	337.1	336.1	337.1	337.1	338.6	337.6	340.1	339.1	340.6
32.5°	310.8	311.8	311.8	310.8	312.8	312.3	312.3	311.3	312.8	313.3	314.3
35°	282.0	283.5	283.5	284.0	284.5	283.0	283.5	280.5	283.0	283.5	284.0
37.5°	250.7	249.1	250.2	248.6	251.2	248.1	248.1	246.1	248.1	248.1	248.6
40°	214.8	214.3	215.3	214.3	213.8	213.3	212.2	210.7	212.8	211.7	213.3
42.5°	180.9	180.4	180.4	179.4	178.9	178.9	177.9	176.9	176.4	176.4	178.9
45°	146.0	147.1	146.0	145.5	146.6	145.5	146.0	144.0	145.0	144.0	145.0
47.5°	116.7	117.2	116.2	115.2	116.7	115.2	115.2	113.7	115.7	115.7	114.7
50°	90.5	90.0	88.9	90.0	89.4	89.4	89.4	87.9	88.9	87.4	88.4
52.5°	66.7	66.2	66.2	65.7	66.2	65.7	65.7	65.2	65.2	64.7	65.2
55°	48.5	48.0	47.0	47.0	47.0	47.5	47.0	46.5	46.5	46.0	46.5
57.5°	32.8	31.8	31.8	31.8	31.8	31.3	31.3	30.8	31.3	30.8	31.3
60°	21.2	21.2	20.2	20.2	20.2	20.2	20.2	19.7	20.2	20.2	20.2
62.5°	13.1	13.1	12.6	12.1	12.6	12.1	12.1	12.1	12.6	12.1	12.6
65°	8.6	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
67.5°	6.1	5.6	5.6	5.6	5.6	5.6	5.6	5.1	5.6	5.6	5.6
70°	4.0	4.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
72.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
75°	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
77.5°	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
80°	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
85°	0.5	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	0.5	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°	418.4	418.4	418.4	418.4	418.4	418.4	418.4	418.4
2.5°	418.4	418.9	417.9	418.4	417.4	418.4	418.9	420.0
5°	417.4	417.9	416.9	417.9	416.9	417.9	418.4	419.4
7.5°	416.4	417.4	416.4	417.4	416.4	417.4	417.9	418.9
10°	416.4	417.9	416.9	418.4	416.9	417.9	418.9	419.4
12.5°	416.4	417.9	417.4	418.4	417.9	418.9	420.0	421.0
15°	415.4	416.9	415.9	417.4	416.9	417.4	419.4	419.4
17.5°	409.8	411.4	411.4	412.4	412.4	413.9	414.9	415.9
20°	402.8	404.3	403.8	405.3	405.3	406.8	407.8	408.8
22.5°	392.2	394.2	393.7	395.2	394.7	395.7	397.7	397.2
25°	378.5	381.0	380.5	381.5	381.0	381.0	382.0	382.6
27.5°	361.8	363.4	362.8	363.9	362.8	363.9	364.9	365.4
30°	340.1	341.1	340.6	341.1	340.6	341.6	342.1	343.1
32.5°	313.8	315.3	313.8	314.8	314.3	314.3	316.4	315.3
35°	282.5	283.0	283.5	283.5	282.5	283.0	284.0	284.0
37.5°	247.6	250.2	247.1	248.6	248.1	248.1	248.1	249.6
40°	211.2	211.7	210.7	210.7	210.7	210.2	212.2	211.7
42.5°	176.9	177.4	176.9	175.4	175.9	175.9	177.4	175.4
45°	143.5	144.5	144.0	144.0	143.0	143.0	143.5	142.5
47.5°	113.7	114.7	113.2	113.7	112.7	113.7	113.2	114.2
50°	86.4	87.4	86.9	87.4	87.4	86.4	87.9	85.9
52.5°	64.7	65.2	64.7	64.2	63.7	63.7	64.7	64.2
55°	46.0	45.5	45.5	45.5	46.0	46.0	45.5	45.0
57.5°	30.8	30.8	30.3	30.3	30.8	29.8	30.3	29.8
60°	19.7	19.7	19.7	19.7	19.2	19.7	19.7	19.7
62.5°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
65°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
67.5°	5.1	5.6	5.6	5.6	5.1	5.1	5.1	5.1
70°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
72.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
75°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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)