

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: P252654

Luminaire Tested: **LD6B10D010 EU6B10209027 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252654
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B10D010 EU6B10209027 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE 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: 815.0 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

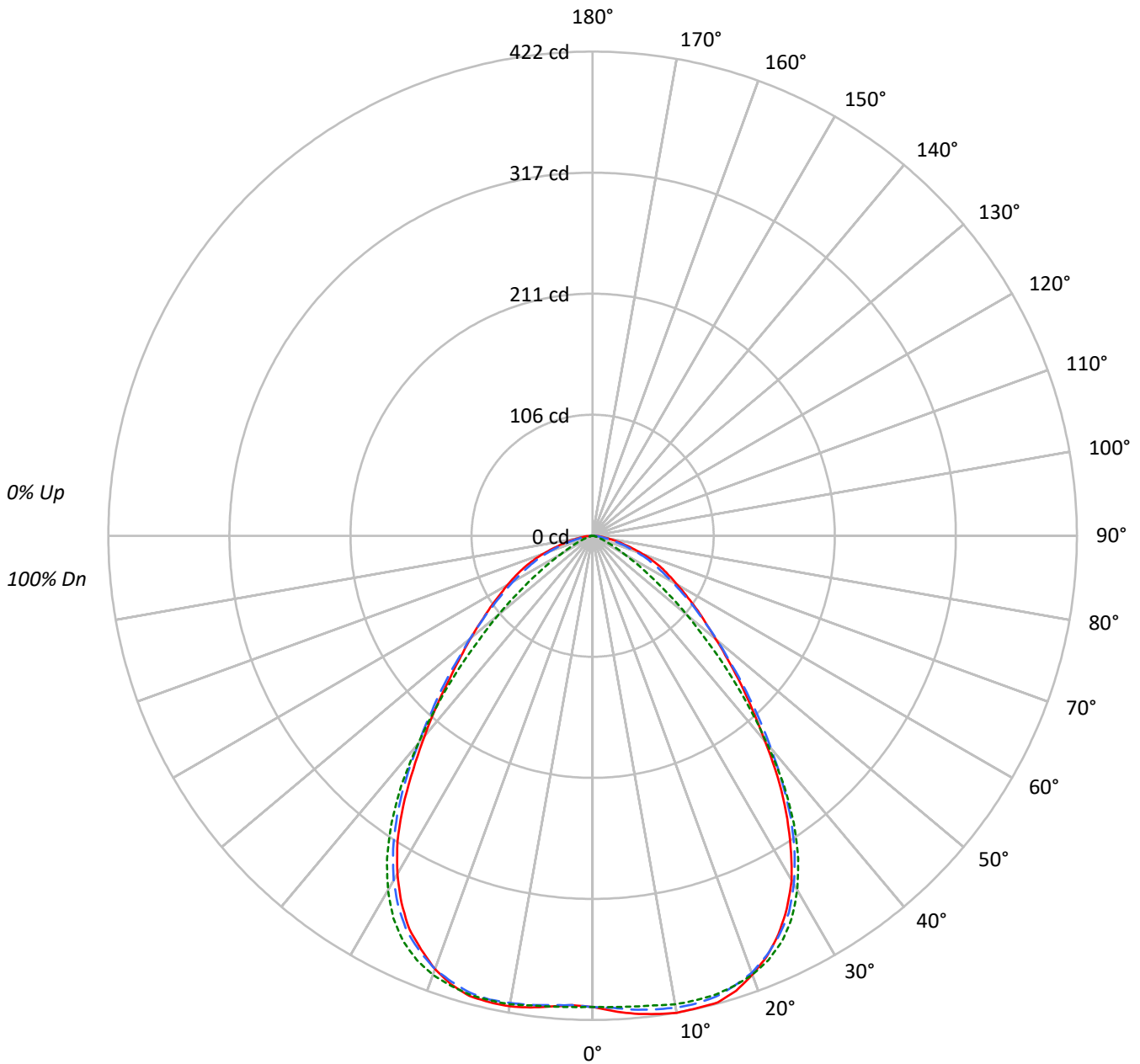
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	102	99	101	98	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68																			
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61																			
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54																			
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48																			
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44																			
8	67	55	47	42	66	54	47	42	53	47	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	39	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	26788	26788	26788
5°	27388	26969	26969
10°	27970	27473	27585
15°	28442	27969	28050
20°	28264	28264	27903
25°	27592	28096	27218
30°	26118	26864	25636
35°	23407	24331	22945
40°	19886	20133	19392
45°	16829	15380	16238
50°	14209	10850	14027
55°	12489	7007	12353
60°	11065	4162	11143
65°	10219	2516	10219
70°	8870	1450	8641
75°	7033	882	6579
80°	5222	639	5034
85°	4791	449	4342



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.5	4.9
10°-20°	117.0	14.4
20°-30°	176.0	21.6
30°-40°	185.0	22.7
40°-50°	138.2	17.0
50°-60°	86.0	10.6
60°-70°	48.9	6.0
70°-80°	20.1	2.5
80°-90°	4.2	0.5
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°	332.5	40.8
0°-40°	517.5	63.5
0°-60°	741.8	91.0
0°-90°	815.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	815.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	411	411	411	411	411	
5°	418	415	412	411	412	40
15°	421	416	414	412	415	118
25°	383	384	390	382	378	175
35°	294	301	306	297	288	182
45°	182	186	167	183	176	141
55°	110	107	62	106	109	99
65°	66	59	16	59	66	65
75°	28	22	4	22	26	30
85°	6	4	1	4	6	7
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°	410.6	410.6	410.6	410.6	410.6	410.6	410.6	410.6	410.6	410.6	410.6
2.5°	414.7	414.1	414.7	413.5	412.9	412.9	413.5	412.4	411.8	412.4	411.8
5°	418.2	417.0	417.6	417.0	415.8	415.8	416.4	414.7	414.7	415.3	414.7
7.5°	420.5	420.5	420.5	419.3	418.7	418.2	419.3	417.6	417.0	417.0	416.4
10°	422.2	421.6	422.2	421.1	419.9	419.3	420.5	419.3	418.2	419.3	417.6
12.5°	421.6	421.6	421.6	421.1	419.9	419.3	420.5	418.7	418.2	418.7	417.6
15°	421.1	419.3	419.9	419.3	417.6	417.6	418.2	416.4	415.3	417.0	415.8
17.5°	415.8	414.7	415.3	414.1	412.9	412.4	412.9	412.4	411.2	412.4	411.2
20°	407.1	407.1	407.7	406.5	405.4	404.8	406.0	404.8	403.6	405.4	405.4
22.5°	396.7	396.7	396.7	396.1	395.5	395.5	395.5	394.9	394.4	395.5	396.1
25°	383.3	382.7	383.3	383.9	383.3	382.7	383.3	383.3	382.2	384.5	384.5
27.5°	366.5	366.5	367.6	367.1	367.1	366.5	367.6	367.6	367.1	368.8	370.5
30°	346.7	345.6	346.7	346.7	347.3	347.3	347.9	347.9	347.9	349.6	350.8
32.5°	321.2	321.8	323.5	322.9	322.3	324.1	324.1	325.2	325.8	327.0	327.6
35°	293.9	294.5	294.5	295.0	296.2	295.0	297.9	297.4	297.9	300.3	301.4
37.5°	264.8	263.1	266.0	264.8	265.4	265.4	266.6	267.2	268.9	271.8	271.8
40°	233.5	234.1	235.2	235.8	236.4	236.4	236.4	238.1	238.7	242.2	241.6
42.5°	206.2	206.2	207.3	207.9	207.9	207.9	207.9	209.7	210.8	212.0	213.1
45°	182.4	180.6	181.8	181.8	182.9	182.4	183.5	184.7	185.3	187.0	186.4
47.5°	159.7	159.1	159.7	160.3	159.7	160.3	160.9	161.5	162.0	162.0	162.0
50°	140.0	140.0	140.5	141.1	141.1	141.1	141.1	141.7	141.7	142.9	141.7
52.5°	123.7	124.3	124.3	123.7	124.3	124.3	124.9	124.9	124.3	124.3	122.5
55°	109.8	109.2	109.8	109.2	109.8	109.8	109.2	109.2	108.6	108.0	107.4
57.5°	96.4	96.4	96.4	96.4	95.8	96.4	95.8	95.2	95.2	94.1	92.3
60°	84.8	84.8	84.8	84.8	84.8	84.2	84.8	84.2	83.1	81.9	79.6
62.5°	74.9	74.3	74.9	74.3	74.3	73.8	73.8	73.2	72.0	70.9	68.5
65°	66.2	66.8	66.2	66.2	65.6	65.0	65.0	64.5	62.7	61.6	59.2
67.5°	56.9	56.3	56.3	56.3	55.8	55.8	55.8	54.6	53.4	51.7	49.4
70°	46.5	46.5	46.5	45.9	45.9	45.3	45.3	44.7	43.6	42.4	39.5
72.5°	36.6	36.6	36.6	35.4	36.0	35.4	35.4	34.3	33.7	31.9	30.2
75°	27.9	27.9	27.3	27.3	26.7	26.1	26.1	25.6	25.0	23.8	22.1
77.5°	20.3	20.3	20.3	19.7	19.2	18.6	18.6	18.0	17.4	16.8	15.7
80°	13.9	13.9	13.9	13.9	13.4	12.8	12.8	12.2	12.2	11.6	10.5
82.5°	9.3	9.3	9.3	9.3	8.7	8.7	8.7	8.1	7.6	7.6	6.4
85°	6.4	6.4	5.8	5.8	5.8	5.8	5.2	5.2	4.6	4.1	4.1
87.5°	3.5	3.5	3.5	3.5	2.9	2.9	2.9	2.9	2.3	2.3	1.7
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°	410.6	410.6	410.6	410.6	410.6	410.6	410.6	410.6	410.6	410.6	410.6
2.5°	413.5	413.5	412.9	411.2	411.8	411.2	411.8	411.2	409.5	411.2	409.5
5°	415.8	416.4	415.3	412.9	413.5	412.9	412.9	412.4	410.6	411.8	410.6
7.5°	418.2	417.6	417.0	414.7	415.3	414.7	414.7	413.5	411.8	412.9	411.2
10°	419.3	419.3	418.2	415.8	415.8	415.3	415.8	415.3	412.9	414.7	413.5
12.5°	419.3	418.7	418.7	415.8	416.4	415.8	416.4	415.3	413.5	414.7	414.1
15°	417.6	417.6	417.0	414.1	414.7	414.7	415.3	414.1	412.4	414.1	412.9
17.5°	414.1	414.1	413.5	411.2	412.4	412.4	412.9	411.8	410.0	411.2	411.2
20°	407.1	407.7	407.7	406.0	407.1	407.1	407.7	407.1	406.5	407.1	406.0
22.5°	399.0	400.2	400.2	398.4	399.6	399.6	401.3	400.7	399.6	400.2	399.6
25°	386.8	388.0	389.1	388.0	389.1	389.1	390.9	390.3	389.1	390.3	388.5
27.5°	372.9	373.4	374.6	373.4	375.2	374.6	376.3	375.8	374.0	375.8	375.2
30°	353.1	355.4	357.2	355.4	357.2	357.2	358.3	357.8	357.2	356.6	356.6
32.5°	331.0	333.4	333.4	332.8	334.0	334.0	334.5	333.4	332.8	333.4	334.0
35°	303.8	304.9	306.1	305.5	306.1	306.7	306.1	306.7	304.9	305.5	305.5
37.5°	274.1	275.3	275.3	273.5	274.7	274.7	273.5	273.5	272.4	273.5	271.2
40°	242.8	241.6	242.2	241.0	239.9	239.9	239.3	237.0	235.8	236.4	237.0
42.5°	212.0	212.0	210.2	207.3	204.4	204.4	202.7	201.5	199.2	200.4	199.8
45°	185.9	182.9	180.6	176.0	174.2	173.1	170.2	167.3	166.1	166.7	166.1
47.5°	160.9	158.6	152.7	146.4	144.6	142.9	139.4	135.9	134.7	133.6	133.6
50°	140.0	135.9	129.5	122.5	119.6	116.7	112.1	108.6	106.3	106.9	106.9
52.5°	120.8	116.2	108.6	99.9	96.4	92.9	88.9	84.8	83.1	82.5	82.5
55°	104.0	98.7	91.2	81.3	78.4	74.3	69.1	64.5	62.1	61.6	62.7
57.5°	88.9	84.2	75.5	65.6	62.1	58.1	52.9	48.8	45.9	45.3	45.9
60°	76.7	70.3	62.7	53.4	48.8	45.3	39.5	36.0	33.1	31.9	32.5
62.5°	64.5	58.7	51.1	41.8	38.3	34.8	29.6	25.6	23.2	22.7	23.2
65°	55.2	49.4	42.4	34.3	30.8	27.3	22.7	18.6	16.8	16.3	16.8
67.5°	45.9	40.7	34.8	27.3	24.4	21.5	16.8	13.9	11.6	11.0	11.6
70°	37.2	32.5	26.7	21.5	18.6	16.3	12.8	9.9	8.1	7.6	8.1
72.5°	27.9	24.4	20.3	15.7	13.9	12.2	9.3	7.0	5.8	5.2	5.8
75°	20.3	17.4	14.5	11.0	9.9	8.7	6.4	4.6	4.1	3.5	4.1
77.5°	13.9	12.2	9.9	7.6	6.4	5.8	4.1	3.5	2.9	2.3	2.3
80°	9.3	8.1	6.4	5.2	4.6	4.1	2.9	2.3	1.7	1.7	1.7
82.5°	5.8	4.6	4.1	2.9	2.3	2.3	1.7	1.2	1.2	1.2	1.2
85°	3.5	2.9	2.3	1.7	1.2	1.2	0.6	0.6	0.6	0.6	0.6
87.5°	1.7	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.6
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°	410.6	410.6	410.6	410.6	410.6	410.6	410.6	410.6	410.6	410.6	410.6
2.5°	410.6	409.5	409.5	410.0	410.6	411.2	410.0	409.5	409.5	411.2	410.0
5°	410.6	410.0	410.0	410.0	411.2	411.8	410.6	410.0	410.6	412.4	411.8
7.5°	412.4	411.2	411.8	411.8	412.4	413.5	412.4	411.8	412.4	414.1	412.9
10°	413.5	412.4	412.9	412.4	414.1	414.7	413.5	412.9	413.5	415.8	415.3
12.5°	414.1	413.5	413.5	412.9	414.7	415.3	414.1	413.5	414.1	415.8	415.3
15°	412.9	412.4	412.4	412.4	413.5	414.7	412.9	412.4	412.4	414.1	413.5
17.5°	410.6	409.5	409.5	409.5	410.0	410.6	408.9	408.3	407.7	409.5	408.9
20°	406.5	405.4	404.2	404.2	404.8	404.8	403.6	401.9	401.9	402.5	401.3
22.5°	399.0	398.4	397.3	396.7	397.8	397.3	394.9	393.2	392.6	393.2	392.0
25°	388.5	387.4	386.8	386.2	386.8	386.2	383.9	381.6	381.6	381.6	379.8
27.5°	374.0	372.9	372.3	372.3	372.9	371.7	369.4	367.1	365.9	365.9	364.2
30°	355.4	355.4	354.9	354.3	353.7	353.7	350.2	347.9	346.7	347.3	346.1
32.5°	332.8	332.2	331.6	329.9	330.5	329.9	327.0	325.2	323.5	322.3	321.8
35°	303.8	303.8	303.2	303.2	303.2	302.6	299.7	297.9	296.8	296.2	294.5
37.5°	271.8	271.2	270.6	270.6	270.6	270.6	268.9	267.2	267.2	266.6	265.4
40°	235.8	236.4	237.0	236.4	238.1	239.9	237.5	236.4	235.8	237.5	235.2
42.5°	201.0	200.4	203.3	203.9	203.9	206.8	207.3	207.9	207.3	208.5	208.5
45°	167.3	166.7	169.6	170.8	173.7	177.1	178.9	181.8	182.9	184.1	182.9
47.5°	135.3	137.6	140.0	142.9	145.2	151.0	154.5	157.4	158.6	160.3	160.3
50°	108.6	110.9	115.0	117.3	120.2	127.2	133.0	137.1	139.4	141.1	140.5
52.5°	83.6	87.7	92.9	95.2	99.3	107.4	113.8	118.5	121.4	123.1	123.7
55°	64.5	68.0	73.2	76.7	80.7	89.4	97.6	102.8	105.7	108.0	109.2
57.5°	47.6	51.7	57.5	60.4	65.0	74.9	81.9	88.3	91.8	94.7	95.2
60°	34.8	38.9	44.1	47.6	52.3	62.1	70.3	76.1	80.1	82.5	83.6
62.5°	25.0	29.0	34.3	37.8	41.8	50.5	58.7	64.5	68.5	71.4	73.2
65°	18.0	22.1	27.3	30.2	33.7	41.8	49.4	55.2	59.2	62.7	63.9
67.5°	13.4	16.3	20.9	23.8	27.3	33.7	40.1	45.3	49.4	52.3	53.4
70°	9.9	12.2	16.3	18.0	20.3	26.1	31.4	36.0	39.5	41.8	43.0
72.5°	7.0	8.7	11.6	13.4	15.1	19.7	23.8	27.3	29.6	31.9	33.1
75°	4.6	5.8	8.1	9.3	10.5	13.9	16.8	19.7	21.5	23.2	23.8
77.5°	2.9	4.1	5.8	6.4	7.6	9.3	11.6	13.4	14.5	15.7	16.8
80°	1.7	2.3	3.5	4.1	4.6	6.4	7.6	8.7	9.9	11.0	11.6
82.5°	1.2	1.7	2.3	2.3	2.9	3.5	4.6	5.8	6.4	7.0	7.6
85°	0.6	0.6	1.2	1.2	1.7	1.7	2.3	2.9	3.5	4.1	4.6
87.5°	0.6	0.6	0.6	0.6	1.2	1.2	1.7	1.7	1.7	2.3	2.3
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°	410.6	410.6	410.6	410.6	410.6	410.6	410.6	410.6
2.5°	408.9	410.6	408.9	410.0	409.5	409.5	408.9	409.5
5°	410.6	412.9	410.6	412.4	411.2	411.2	411.2	411.8
7.5°	412.4	414.7	412.9	414.7	414.1	413.5	413.5	414.7
10°	414.1	415.8	414.7	416.4	415.8	415.3	415.3	416.4
12.5°	414.1	416.4	415.3	417.0	416.4	415.8	415.8	416.4
15°	412.4	415.3	413.5	415.3	414.7	414.1	414.1	415.3
17.5°	407.1	409.5	408.3	409.5	409.5	408.9	409.5	410.0
20°	400.2	401.9	400.7	401.9	401.9	400.7	401.3	401.9
22.5°	390.3	392.0	390.9	392.0	391.4	390.9	390.9	390.3
25°	378.1	380.4	378.7	379.8	378.7	377.5	377.5	378.1
27.5°	363.0	364.7	362.4	363.6	362.4	361.2	361.2	360.7
30°	343.2	343.8	342.1	343.2	342.1	341.5	340.3	340.3
32.5°	319.4	320.0	318.3	318.3	317.1	317.1	314.8	316.5
35°	291.6	292.1	291.6	291.0	289.2	288.6	288.1	288.1
37.5°	262.5	262.5	260.8	260.2	259.0	257.9	258.4	256.7
40°	232.9	232.3	230.6	231.2	230.6	228.8	228.2	227.7
42.5°	205.0	205.0	203.3	203.9	202.7	202.1	200.4	201.0
45°	180.6	180.6	178.9	178.9	178.3	176.6	177.1	176.0
47.5°	158.6	158.6	158.0	158.0	156.2	155.7	155.7	155.7
50°	139.4	139.4	139.4	139.4	138.8	138.2	137.6	138.2
52.5°	123.1	124.3	123.7	123.7	123.1	122.5	122.0	122.0
55°	108.6	109.2	109.2	109.8	109.2	108.6	109.2	108.6
57.5°	95.8	97.0	97.0	97.0	97.0	97.0	96.4	95.8
60°	84.8	85.4	85.4	86.0	86.0	86.0	85.4	85.4
62.5°	73.8	74.9	75.5	75.5	76.1	75.5	75.5	75.5
65°	65.0	66.2	66.8	66.2	66.8	66.8	66.2	66.2
67.5°	54.6	55.8	55.8	55.8	55.8	56.3	55.8	55.8
70°	44.1	45.3	44.7	45.3	45.3	45.3	45.3	45.3
72.5°	33.7	34.3	34.8	34.8	35.4	34.8	34.8	34.8
75°	24.4	25.6	25.6	25.6	25.6	26.1	26.1	26.1
77.5°	17.4	18.0	18.0	18.6	18.6	18.6	18.6	19.2
80°	12.2	12.2	12.8	12.8	13.4	13.4	13.4	13.4
82.5°	8.1	8.7	8.7	8.7	8.7	8.7	8.7	8.7
85°	4.6	5.2	5.2	5.2	5.2	5.8	5.8	5.8
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.3	2.3
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)