

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: P252666

Luminaire Tested: **LD6B15D010 EU6B10209024 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252666
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: LD6B15D010 EU6B10209024 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 989.0 lumens
Efficiency: N/A
Efficacy: 68.7 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

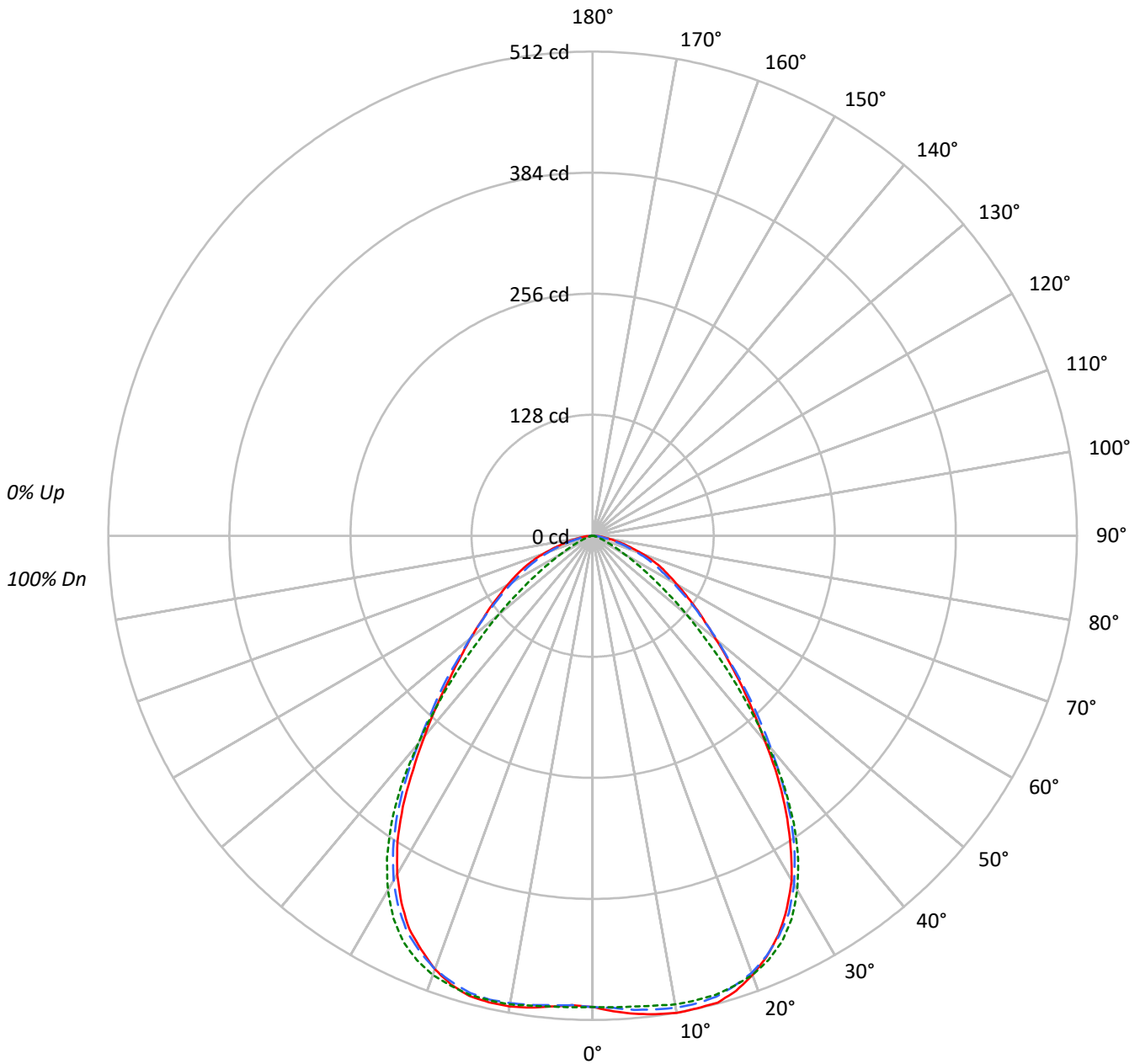
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	32509	32509	32509
5°	33230	32725	32725
10°	33945	33336	33475
15°	34514	33940	34034
20°	34304	34304	33860
25°	33487	34092	33027
30°	31700	32597	31113
35°	28401	29524	27844
40°	24127	24425	23531
45°	20418	18665	19698
50°	17244	13164	17021
55°	15151	8497	14991
60°	13427	5063	13518
65°	12396	3041	12396
70°	10758	1755	10491
75°	8520	1059	7991
80°	6349	789	6086
85°	5839	524	5240



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.0	4.9
10°-20°	142.0	14.4
20°-30°	213.5	21.6
30°-40°	224.5	22.7
40°-50°	167.7	17.0
50°-60°	104.4	10.6
60°-70°	59.4	6.0
70°-80°	24.5	2.5
80°-90°	5.0	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°	403.5	40.8
0°-40°	628.0	63.5
0°-60°	900.1	91.0
0°-90°	989.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	989.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	498	498	498	498	498	
5°	507	503	500	498	500	49
15°	511	505	502	500	504	144
25°	465	467	474	463	459	213
35°	357	366	371	360	350	221
45°	221	226	202	222	214	171
55°	133	130	75	128	132	120
65°	80	72	20	72	80	79
75°	34	27	4	26	32	37
85°	8	5	1	4	7	9
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°	498.3	498.3	498.3	498.3	498.3	498.3	498.3	498.3	498.3	498.3	498.3
2.5°	503.2	502.5	503.2	501.8	501.1	501.1	501.8	500.4	499.7	500.4	499.7
5°	507.4	506.0	506.7	506.0	504.6	504.6	505.3	503.2	503.2	503.9	503.2
7.5°	510.3	510.3	510.3	508.9	508.1	507.4	508.9	506.7	506.0	506.0	505.3
10°	512.4	511.7	512.4	511.0	509.6	508.9	510.3	508.9	507.4	508.9	506.7
12.5°	511.7	511.7	511.7	511.0	509.6	508.9	510.3	508.1	507.4	508.1	506.7
15°	511.0	508.9	509.6	508.9	506.7	506.7	507.4	505.3	503.9	506.0	504.6
17.5°	504.6	503.2	503.9	502.5	501.1	500.4	501.1	500.4	499.0	500.4	499.0
20°	494.1	494.1	494.8	493.3	491.9	491.2	492.6	491.2	489.8	491.9	491.9
22.5°	481.4	481.4	481.4	480.7	480.0	480.0	480.0	479.3	478.5	480.0	480.7
25°	465.2	464.4	465.2	465.9	465.2	464.4	465.2	465.2	463.7	466.6	466.6
27.5°	444.7	444.7	446.1	445.4	445.4	444.7	446.1	446.1	445.4	447.5	449.6
30°	420.8	419.3	420.8	420.8	421.5	421.5	422.2	422.2	422.2	424.3	425.7
32.5°	389.7	390.4	392.6	391.9	391.2	393.3	393.3	394.7	395.4	396.8	397.5
35°	356.6	357.3	357.3	358.0	359.4	358.0	361.6	360.8	361.6	364.4	365.8
37.5°	321.4	319.3	322.8	321.4	322.1	322.1	323.5	324.2	326.3	329.8	329.8
40°	283.3	284.0	285.4	286.1	286.8	286.8	286.8	289.0	289.7	293.9	293.2
42.5°	250.2	250.2	251.6	252.3	252.3	252.3	252.3	254.4	255.8	257.2	258.7
45°	221.3	219.2	220.6	220.6	222.0	221.3	222.7	224.1	224.8	226.9	226.2
47.5°	193.8	193.1	193.8	194.5	193.8	194.5	195.2	195.9	196.6	196.6	196.6
50°	169.9	169.9	170.6	171.3	171.3	171.3	171.3	172.0	172.0	173.4	172.0
52.5°	150.1	150.8	150.8	150.1	150.8	150.8	151.5	151.5	150.8	150.8	148.7
55°	133.2	132.5	133.2	132.5	133.2	133.2	132.5	132.5	131.8	131.1	130.4
57.5°	117.0	117.0	117.0	117.0	116.3	117.0	116.3	115.6	115.6	114.2	112.1
60°	102.9	102.9	102.9	102.9	102.9	102.2	102.9	102.2	100.8	99.4	96.6
62.5°	90.9	90.2	90.9	90.2	90.2	89.5	89.5	88.8	87.4	86.0	83.2
65°	80.3	81.0	80.3	80.3	79.6	78.9	78.9	78.2	76.1	74.7	71.9
67.5°	69.1	68.4	68.4	68.4	67.7	67.7	67.7	66.2	64.8	62.7	59.9
70°	56.4	56.4	56.4	55.7	55.7	55.0	55.0	54.3	52.9	51.4	47.9
72.5°	44.4	44.4	44.4	43.0	43.7	43.0	43.0	41.6	40.9	38.8	36.6
75°	33.8	33.8	33.1	33.1	32.4	31.7	31.7	31.0	30.3	28.9	26.8
77.5°	24.7	24.7	24.7	24.0	23.3	22.6	22.6	21.8	21.1	20.4	19.0
80°	16.9	16.9	16.9	16.9	16.2	15.5	15.5	14.8	14.8	14.1	12.7
82.5°	11.3	11.3	11.3	11.3	10.6	10.6	10.6	9.9	9.2	9.2	7.8
85°	7.8	7.8	7.0	7.0	7.0	7.0	6.3	6.3	5.6	4.9	4.9
87.5°	4.2	4.2	4.2	4.2	3.5	3.5	3.5	3.5	2.8	2.8	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°	498.3	498.3	498.3	498.3	498.3	498.3	498.3	498.3	498.3	498.3	498.3
2.5°	501.8	501.8	501.1	499.0	499.7	499.0	499.7	499.0	496.9	499.0	496.9
5°	504.6	505.3	503.9	501.1	501.8	501.1	501.1	500.4	498.3	499.7	498.3
7.5°	507.4	506.7	506.0	503.2	503.9	503.2	503.2	501.8	499.7	501.1	499.0
10°	508.9	508.9	507.4	504.6	504.6	503.9	504.6	503.9	501.1	503.2	501.8
12.5°	508.9	508.1	508.1	504.6	505.3	504.6	505.3	503.9	501.8	503.2	502.5
15°	506.7	506.7	506.0	502.5	503.2	503.2	503.9	502.5	500.4	502.5	501.1
17.5°	502.5	502.5	501.8	499.0	500.4	500.4	501.1	499.7	497.6	499.0	499.0
20°	494.1	494.8	494.8	492.6	494.1	494.1	494.8	494.1	493.3	494.1	492.6
22.5°	484.2	485.6	485.6	483.5	484.9	484.9	487.0	486.3	484.9	485.6	484.9
25°	469.4	470.8	472.2	470.8	472.2	472.2	474.3	473.6	472.2	473.6	471.5
27.5°	452.5	453.2	454.6	453.2	455.3	454.6	456.7	456.0	453.9	456.0	455.3
30°	428.5	431.3	433.4	431.3	433.4	433.4	434.8	434.1	433.4	432.7	432.7
32.5°	401.7	404.5	404.5	403.8	405.2	405.2	406.0	404.5	403.8	404.5	405.2
35°	368.6	370.0	371.4	370.7	371.4	372.1	371.4	372.1	370.0	370.7	370.7
37.5°	332.7	334.1	334.1	332.0	333.4	333.4	332.0	332.0	330.5	332.0	329.1
40°	294.6	293.2	293.9	292.5	291.1	291.1	290.4	287.6	286.1	286.8	287.6
42.5°	257.2	257.2	255.1	251.6	248.1	248.1	246.0	244.6	241.7	243.1	242.4
45°	225.5	222.0	219.2	213.5	211.4	210.0	206.5	203.0	201.6	202.3	201.6
47.5°	195.2	192.4	185.4	177.6	175.5	173.4	169.1	164.9	163.5	162.1	162.1
50°	169.9	164.9	157.2	148.7	145.2	141.7	136.0	131.8	129.0	129.7	129.7
52.5°	146.6	141.0	131.8	121.2	117.0	112.8	107.8	102.9	100.8	100.1	100.1
55°	126.2	119.8	110.7	98.7	95.1	90.2	83.9	78.2	75.4	74.7	76.1
57.5°	107.8	102.2	91.6	79.6	75.4	70.5	64.1	59.2	55.7	55.0	55.7
60°	93.0	85.3	76.1	64.8	59.2	55.0	47.9	43.7	40.2	38.8	39.5
62.5°	78.2	71.2	62.0	50.7	46.5	42.3	35.9	31.0	28.2	27.5	28.2
65°	67.0	59.9	51.4	41.6	37.4	33.1	27.5	22.6	20.4	19.7	20.4
67.5°	55.7	49.3	42.3	33.1	29.6	26.1	20.4	16.9	14.1	13.4	14.1
70°	45.1	39.5	32.4	26.1	22.6	19.7	15.5	12.0	9.9	9.2	9.9
72.5°	33.8	29.6	24.7	19.0	16.9	14.8	11.3	8.5	7.0	6.3	7.0
75°	24.7	21.1	17.6	13.4	12.0	10.6	7.8	5.6	4.9	4.2	4.9
77.5°	16.9	14.8	12.0	9.2	7.8	7.0	4.9	4.2	3.5	2.8	2.8
80°	11.3	9.9	7.8	6.3	5.6	4.9	3.5	2.8	2.1	2.1	2.1
82.5°	7.0	5.6	4.9	3.5	2.8	2.8	2.1	1.4	1.4	1.4	1.4
85°	4.2	3.5	2.8	2.1	1.4	1.4	0.7	0.7	0.7	0.7	0.7
87.5°	2.1	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	498.3	498.3	498.3	498.3	498.3	498.3	498.3	498.3	498.3	498.3	498.3
2.5°	498.3	496.9	496.9	497.6	498.3	499.0	497.6	496.9	496.9	499.0	497.6
5°	498.3	497.6	497.6	497.6	499.0	499.7	498.3	497.6	498.3	500.4	499.7
7.5°	500.4	499.0	499.7	499.7	500.4	501.8	500.4	499.7	500.4	502.5	501.1
10°	501.8	500.4	501.1	500.4	502.5	503.2	501.8	501.1	501.8	504.6	503.9
12.5°	502.5	501.8	501.8	501.1	503.2	503.9	502.5	501.8	502.5	504.6	503.9
15°	501.1	500.4	500.4	500.4	501.8	503.2	501.1	500.4	500.4	502.5	501.8
17.5°	498.3	496.9	496.9	496.9	497.6	498.3	496.2	495.5	494.8	496.9	496.2
20°	493.3	491.9	490.5	490.5	491.2	491.2	489.8	487.7	487.7	488.4	487.0
22.5°	484.2	483.5	482.1	481.4	482.8	482.1	479.3	477.1	476.4	477.1	475.7
25°	471.5	470.1	469.4	468.7	469.4	468.7	465.9	463.0	463.0	463.0	460.9
27.5°	453.9	452.5	451.8	451.8	452.5	451.1	448.2	445.4	444.0	444.0	441.9
30°	431.3	431.3	430.6	429.9	429.2	429.2	425.0	422.2	420.8	421.5	420.0
32.5°	403.8	403.1	402.4	400.3	401.0	400.3	396.8	394.7	392.6	391.2	390.4
35°	368.6	368.6	367.9	367.9	367.9	367.2	363.7	361.6	360.1	359.4	357.3
37.5°	329.8	329.1	328.4	328.4	328.4	328.4	326.3	324.2	324.2	323.5	322.1
40°	286.1	286.8	287.6	286.8	289.0	291.1	288.3	286.8	286.1	288.3	285.4
42.5°	243.9	243.1	246.7	247.4	247.4	250.9	251.6	252.3	251.6	253.0	253.0
45°	203.0	202.3	205.8	207.2	210.7	215.0	217.1	220.6	222.0	223.4	222.0
47.5°	164.2	167.0	169.9	173.4	176.2	183.2	187.5	191.0	192.4	194.5	194.5
50°	131.8	134.6	139.5	142.4	145.9	154.3	161.4	166.3	169.1	171.3	170.6
52.5°	101.5	106.4	112.8	115.6	120.5	130.4	138.1	143.8	147.3	149.4	150.1
55°	78.2	82.5	88.8	93.0	98.0	108.5	118.4	124.7	128.3	131.1	132.5
57.5°	57.8	62.7	69.8	73.3	78.9	90.9	99.4	107.1	111.4	114.9	115.6
60°	42.3	47.2	53.6	57.8	63.4	75.4	85.3	92.3	97.3	100.1	101.5
62.5°	30.3	35.2	41.6	45.8	50.7	61.3	71.2	78.2	83.2	86.7	88.8
65°	21.8	26.8	33.1	36.6	40.9	50.7	59.9	67.0	71.9	76.1	77.5
67.5°	16.2	19.7	25.4	28.9	33.1	40.9	48.6	55.0	59.9	63.4	64.8
70°	12.0	14.8	19.7	21.8	24.7	31.7	38.1	43.7	47.9	50.7	52.2
72.5°	8.5	10.6	14.1	16.2	18.3	24.0	28.9	33.1	35.9	38.8	40.2
75°	5.6	7.0	9.9	11.3	12.7	16.9	20.4	24.0	26.1	28.2	28.9
77.5°	3.5	4.9	7.0	7.8	9.2	11.3	14.1	16.2	17.6	19.0	20.4
80°	2.1	2.8	4.2	4.9	5.6	7.8	9.2	10.6	12.0	13.4	14.1
82.5°	1.4	2.1	2.8	2.8	3.5	4.2	5.6	7.0	7.8	8.5	9.2
85°	0.7	0.7	1.4	1.4	2.1	2.1	2.8	3.5	4.2	4.9	5.6
87.5°	0.7	0.7	0.7	0.7	1.4	1.4	2.1	2.1	2.1	2.8	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



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	498.3	498.3	498.3	498.3	498.3	498.3	498.3	498.3
2.5°	496.2	498.3	496.2	497.6	496.9	496.9	496.2	496.9
5°	498.3	501.1	498.3	500.4	499.0	499.0	499.0	499.7
7.5°	500.4	503.2	501.1	503.2	502.5	501.8	501.8	503.2
10°	502.5	504.6	503.2	505.3	504.6	503.9	503.9	505.3
12.5°	502.5	505.3	503.9	506.0	505.3	504.6	504.6	505.3
15°	500.4	503.9	501.8	503.9	503.2	502.5	502.5	503.9
17.5°	494.1	496.9	495.5	496.9	496.9	496.2	496.9	497.6
20°	485.6	487.7	486.3	487.7	487.7	486.3	487.0	487.7
22.5°	473.6	475.7	474.3	475.7	475.0	474.3	474.3	473.6
25°	458.8	461.6	459.5	460.9	459.5	458.1	458.1	458.8
27.5°	440.5	442.6	439.8	441.2	439.8	438.4	438.4	437.7
30°	416.5	417.2	415.1	416.5	415.1	414.4	413.0	413.0
32.5°	387.6	388.3	386.2	386.2	384.8	384.8	382.0	384.1
35°	353.8	354.5	353.8	353.1	351.0	350.3	349.6	349.6
37.5°	318.6	318.6	316.4	315.7	314.3	312.9	313.6	311.5
40°	282.6	281.9	279.8	280.5	279.8	277.7	277.0	276.3
42.5°	248.8	248.8	246.7	247.4	246.0	245.3	243.1	243.9
45°	219.2	219.2	217.1	217.1	216.4	214.3	215.0	213.5
47.5°	192.4	192.4	191.7	191.7	189.6	188.9	188.9	188.9
50°	169.1	169.1	169.1	169.1	168.4	167.7	167.0	167.7
52.5°	149.4	150.8	150.1	150.1	149.4	148.7	148.0	148.0
55°	131.8	132.5	132.5	133.2	132.5	131.8	132.5	131.8
57.5°	116.3	117.7	117.7	117.7	117.7	117.7	117.0	116.3
60°	102.9	103.6	103.6	104.3	104.3	104.3	103.6	103.6
62.5°	89.5	90.9	91.6	91.6	92.3	91.6	91.6	91.6
65°	78.9	80.3	81.0	80.3	81.0	81.0	80.3	80.3
67.5°	66.2	67.7	67.7	67.7	67.7	68.4	67.7	67.7
70°	53.6	55.0	54.3	55.0	55.0	55.0	55.0	55.0
72.5°	40.9	41.6	42.3	42.3	43.0	42.3	42.3	42.3
75°	29.6	31.0	31.0	31.0	31.0	31.7	31.7	31.7
77.5°	21.1	21.8	21.8	22.6	22.6	22.6	22.6	23.3
80°	14.8	14.8	15.5	15.5	16.2	16.2	16.2	16.2
82.5°	9.9	10.6	10.6	10.6	10.6	10.6	10.6	10.6
85°	5.6	6.3	6.3	6.3	6.3	7.0	7.0	7.0
87.5°	3.5	3.5	3.5	3.5	3.5	3.5	2.8	2.8
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)