

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: P252649

Luminaire Tested: **LD6B10D010 EU6B10208030 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252649
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 EU6B10208030 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 992.0 lumens
Efficiency: N/A
Efficacy: 98.7 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

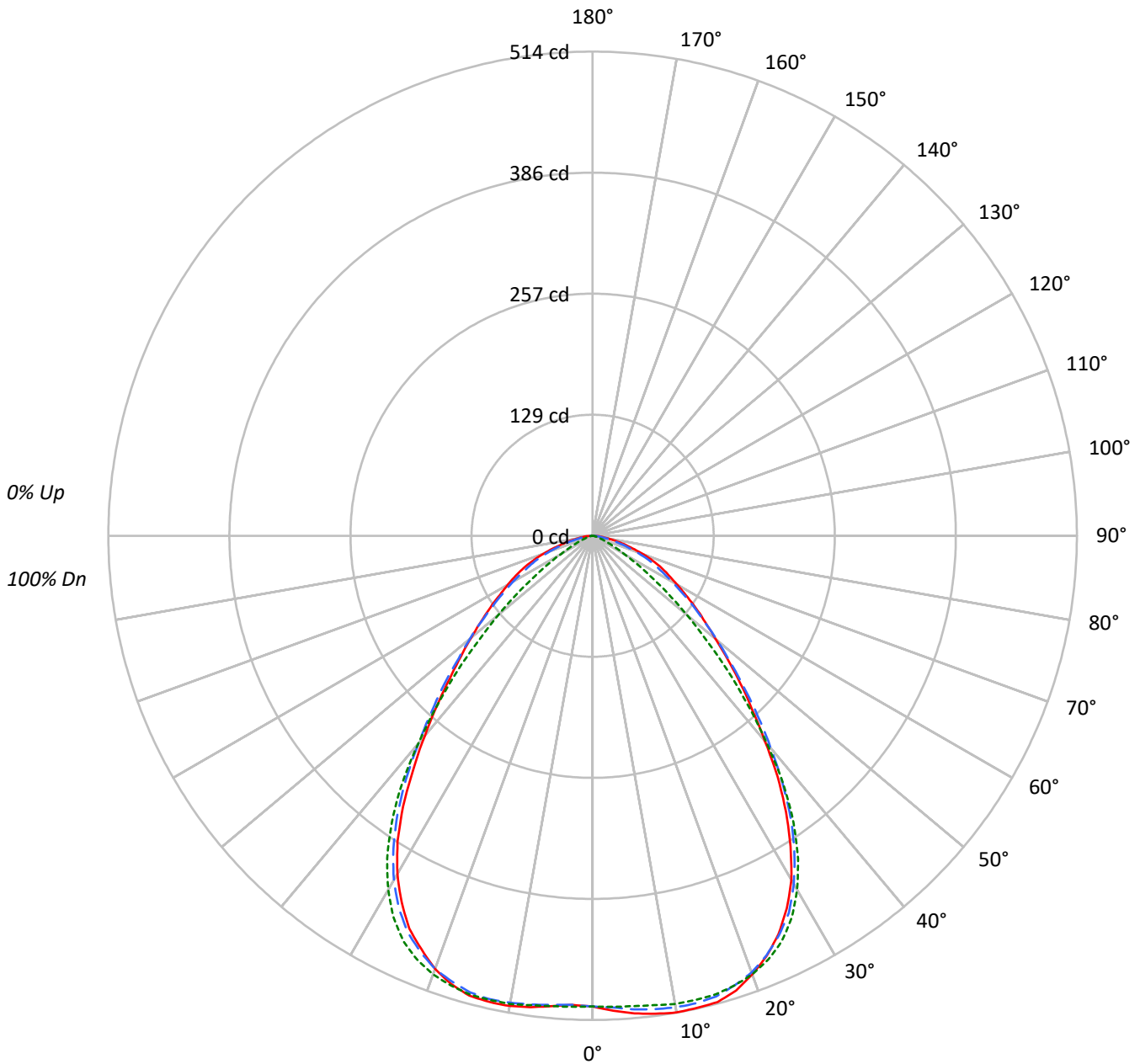
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	32607	32607	32607
5°	33334	32824	32824
10°	34044	33435	33581
15°	34615	34041	34136
20°	34401	34401	33964
25°	33588	34193	33128
30°	31791	32695	31211
35°	28489	29612	27923
40°	24204	24502	23599
45°	20483	18720	19763
50°	17295	13205	17072
55°	15196	8519	15037
60°	13466	5076	13557
65°	12442	3057	12442
70°	10796	1755	10510
75°	8545	1059	8016
80°	6387	789	6124
85°	5839	524	5315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.1	4.9
10°-20°	142.4	14.4
20°-30°	214.2	21.6
30°-40°	225.2	22.7
40°-50°	168.2	17.0
50°-60°	104.7	10.6
60°-70°	59.6	6.0
70°-80°	24.5	2.5
80°-90°	5.1	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°	404.7	40.8
0°-40°	629.9	63.5
0°-60°	902.8	91.0
0°-90°	992.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	992.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	500	500	500	500	500	
5°	509	505	501	500	501	49
15°	512	506	504	502	505	144
25°	467	468	475	464	460	214
35°	358	367	372	361	351	222
45°	222	227	203	223	214	172
55°	134	131	75	129	132	120
65°	81	72	20	72	81	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°	499.8	499.8	499.8	499.8	499.8	499.8	499.8	499.8	499.8	499.8	499.8
2.5°	504.7	504.0	504.7	503.3	502.6	502.6	503.3	501.9	501.2	501.9	501.2
5°	509.0	507.6	508.3	507.6	506.2	506.2	506.9	504.7	504.7	505.4	504.7
7.5°	511.8	511.8	511.8	510.4	509.7	509.0	510.4	508.3	507.6	507.6	506.9
10°	513.9	513.2	513.9	512.5	511.1	510.4	511.8	510.4	509.0	510.4	508.3
12.5°	513.2	513.2	513.2	512.5	511.1	510.4	511.8	509.7	509.0	509.7	508.3
15°	512.5	510.4	511.1	510.4	508.3	508.3	509.0	506.9	505.4	507.6	506.2
17.5°	506.2	504.7	505.4	504.0	502.6	501.9	502.6	501.9	500.5	501.9	500.5
20°	495.5	495.5	496.3	494.8	493.4	492.7	494.1	492.7	491.3	493.4	493.4
22.5°	482.8	482.8	482.8	482.1	481.4	481.4	481.4	480.7	480.0	481.4	482.1
25°	466.6	465.9	466.6	467.3	466.6	465.9	466.6	466.6	465.2	468.0	468.0
27.5°	446.1	446.1	447.5	446.8	446.8	446.1	447.5	447.5	446.8	448.9	451.0
30°	422.0	420.6	422.0	422.0	422.7	422.7	423.4	423.4	423.4	425.6	427.0
32.5°	390.9	391.6	393.8	393.0	392.3	394.5	394.5	395.9	396.6	398.0	398.7
35°	357.7	358.4	358.4	359.1	360.5	359.1	362.6	361.9	362.6	365.5	366.9
37.5°	322.4	320.2	323.8	322.4	323.1	323.1	324.5	325.2	327.3	330.8	330.8
40°	284.2	284.9	286.3	287.0	287.7	287.7	287.7	289.8	290.5	294.8	294.1
42.5°	251.0	251.0	252.4	253.1	253.1	253.1	253.1	255.2	256.6	258.0	259.4
45°	222.0	219.9	221.3	221.3	222.7	222.0	223.4	224.8	225.5	227.6	226.9
47.5°	194.4	193.7	194.4	195.1	194.4	195.1	195.8	196.5	197.2	197.2	197.2
50°	170.4	170.4	171.1	171.8	171.8	171.8	171.8	172.5	172.5	173.9	172.5
52.5°	150.6	151.3	151.3	150.6	151.3	151.3	152.0	152.0	151.3	151.3	149.2
55°	133.6	132.9	133.6	132.9	133.6	133.6	132.9	132.9	132.2	131.5	130.8
57.5°	117.3	117.3	117.3	117.3	116.6	117.3	116.6	115.9	115.9	114.5	112.4
60°	103.2	103.2	103.2	103.2	103.2	102.5	103.2	102.5	101.1	99.7	96.8
62.5°	91.2	90.5	91.2	90.5	90.5	89.8	89.8	89.1	87.7	86.2	83.4
65°	80.6	81.3	80.6	80.6	79.9	79.2	79.2	78.5	76.3	74.9	72.1
67.5°	69.3	68.6	68.6	68.6	67.9	67.9	67.9	66.5	65.0	62.9	60.1
70°	56.6	56.6	56.6	55.8	55.8	55.1	55.1	54.4	53.0	51.6	48.1
72.5°	44.5	44.5	44.5	43.1	43.8	43.1	43.1	41.7	41.0	38.9	36.8
75°	33.9	33.9	33.2	33.2	32.5	31.8	31.8	31.1	30.4	29.0	26.9
77.5°	24.7	24.7	24.7	24.0	23.3	22.6	22.6	21.9	21.2	20.5	19.1
80°	17.0	17.0	17.0	17.0	16.3	15.6	15.6	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	7.1	7.1	7.1	7.1	6.4	6.4	5.7	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°	499.8	499.8	499.8	499.8	499.8	499.8	499.8	499.8	499.8	499.8	499.8
2.5°	503.3	503.3	502.6	500.5	501.2	500.5	501.2	500.5	498.4	500.5	498.4
5°	506.2	506.9	505.4	502.6	503.3	502.6	502.6	501.9	499.8	501.2	499.8
7.5°	509.0	508.3	507.6	504.7	505.4	504.7	504.7	503.3	501.2	502.6	500.5
10°	510.4	510.4	509.0	506.2	506.2	505.4	506.2	505.4	502.6	504.7	503.3
12.5°	510.4	509.7	509.7	506.2	506.9	506.2	506.9	505.4	503.3	504.7	504.0
15°	508.3	508.3	507.6	504.0	504.7	504.7	505.4	504.0	501.9	504.0	502.6
17.5°	504.0	504.0	503.3	500.5	501.9	501.9	502.6	501.2	499.1	500.5	500.5
20°	495.5	496.3	496.3	494.1	495.5	495.5	496.3	495.5	494.8	495.5	494.1
22.5°	485.7	487.1	487.1	484.9	486.4	486.4	488.5	487.8	486.4	487.1	486.4
25°	470.8	472.2	473.6	472.2	473.6	473.6	475.8	475.0	473.6	475.0	472.9
27.5°	453.8	454.5	456.0	454.5	456.7	456.0	458.1	457.4	455.3	457.4	456.7
30°	429.8	432.6	434.8	432.6	434.8	434.8	436.2	435.5	434.8	434.0	434.0
32.5°	402.9	405.8	405.8	405.1	406.5	406.5	407.2	405.8	405.1	405.8	406.5
35°	369.7	371.1	372.5	371.8	372.5	373.3	372.5	373.3	371.1	371.8	371.8
37.5°	333.7	335.1	335.1	333.0	334.4	334.4	333.0	333.0	331.5	333.0	330.1
40°	295.5	294.1	294.8	293.4	292.0	292.0	291.3	288.4	287.0	287.7	288.4
42.5°	258.0	258.0	255.9	252.4	248.8	248.8	246.7	245.3	242.5	243.9	243.2
45°	226.2	222.7	219.9	214.2	212.1	210.7	207.1	203.6	202.2	202.9	202.2
47.5°	195.8	193.0	185.9	178.1	176.0	173.9	169.7	165.4	164.0	162.6	162.6
50°	170.4	165.4	157.6	149.2	145.6	142.1	136.4	132.2	129.4	130.1	130.1
52.5°	147.0	141.4	132.2	121.6	117.3	113.1	108.2	103.2	101.1	100.4	100.4
55°	126.5	120.2	111.0	99.0	95.4	90.5	84.1	78.5	75.6	74.9	76.3
57.5°	108.2	102.5	91.9	79.9	75.6	70.7	64.3	59.4	55.8	55.1	55.8
60°	93.3	85.5	76.3	65.0	59.4	55.1	48.1	43.8	40.3	38.9	39.6
62.5°	78.5	71.4	62.2	50.9	46.7	42.4	36.1	31.1	28.3	27.6	28.3
65°	67.2	60.1	51.6	41.7	37.5	33.2	27.6	22.6	20.5	19.8	20.5
67.5°	55.8	49.5	42.4	33.2	29.7	26.2	20.5	17.0	14.1	13.4	14.1
70°	45.2	39.6	32.5	26.2	22.6	19.8	15.6	12.0	9.9	9.2	9.9
72.5°	33.9	29.7	24.7	19.1	17.0	14.8	11.3	8.5	7.1	6.4	7.1
75°	24.7	21.2	17.7	13.4	12.0	10.6	7.8	5.7	4.9	4.2	4.9
77.5°	17.0	14.8	12.0	9.2	7.8	7.1	4.9	4.2	3.5	2.8	2.8
80°	11.3	9.9	7.8	6.4	5.7	4.9	3.5	2.8	2.1	2.1	2.1
82.5°	7.1	5.7	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°	499.8	499.8	499.8	499.8	499.8	499.8	499.8	499.8	499.8	499.8	499.8
2.5°	499.8	498.4	498.4	499.1	499.8	500.5	499.1	498.4	498.4	500.5	499.1
5°	499.8	499.1	499.1	499.1	500.5	501.2	499.8	499.1	499.8	501.9	501.2
7.5°	501.9	500.5	501.2	501.2	501.9	503.3	501.9	501.2	501.9	504.0	502.6
10°	503.3	501.9	502.6	501.9	504.0	504.7	503.3	502.6	503.3	506.2	505.4
12.5°	504.0	503.3	503.3	502.6	504.7	505.4	504.0	503.3	504.0	506.2	505.4
15°	502.6	501.9	501.9	501.9	503.3	504.7	502.6	501.9	501.9	504.0	503.3
17.5°	499.8	498.4	498.4	498.4	499.1	499.8	497.7	497.0	496.3	498.4	497.7
20°	494.8	493.4	492.0	492.0	492.7	492.7	491.3	489.2	489.2	489.9	488.5
22.5°	485.7	484.9	483.5	482.8	484.2	483.5	480.7	478.6	477.9	478.6	477.2
25°	472.9	471.5	470.8	470.1	470.8	470.1	467.3	464.4	464.4	464.4	462.3
27.5°	455.3	453.8	453.1	453.1	453.8	452.4	449.6	446.8	445.4	445.4	443.2
30°	432.6	432.6	431.9	431.2	430.5	430.5	426.3	423.4	422.0	422.7	421.3
32.5°	405.1	404.4	403.7	401.5	402.2	401.5	398.0	395.9	393.8	392.3	391.6
35°	369.7	369.7	369.0	369.0	369.0	368.3	364.8	362.6	361.2	360.5	358.4
37.5°	330.8	330.1	329.4	329.4	329.4	329.4	327.3	325.2	325.2	324.5	323.1
40°	287.0	287.7	288.4	287.7	289.8	292.0	289.1	287.7	287.0	289.1	286.3
42.5°	244.6	243.9	247.4	248.1	248.1	251.7	252.4	253.1	252.4	253.8	253.8
45°	203.6	202.9	206.4	207.8	211.4	215.6	217.7	221.3	222.7	224.1	222.7
47.5°	164.7	167.5	170.4	173.9	176.7	183.8	188.0	191.6	193.0	195.1	195.1
50°	132.2	135.0	140.0	142.8	146.3	154.8	161.9	166.8	169.7	171.8	171.1
52.5°	101.8	106.7	113.1	115.9	120.9	130.8	138.6	144.2	147.7	149.9	150.6
55°	78.5	82.7	89.1	93.3	98.3	108.9	118.8	125.1	128.7	131.5	132.9
57.5°	58.0	62.9	70.0	73.5	79.2	91.2	99.7	107.5	111.7	115.2	115.9
60°	42.4	47.4	53.7	58.0	63.6	75.6	85.5	92.6	97.6	100.4	101.8
62.5°	30.4	35.3	41.7	45.9	50.9	61.5	71.4	78.5	83.4	87.0	89.1
65°	21.9	26.9	33.2	36.8	41.0	50.9	60.1	67.2	72.1	76.3	77.8
67.5°	16.3	19.8	25.4	29.0	33.2	41.0	48.8	55.1	60.1	63.6	65.0
70°	12.0	14.8	19.8	21.9	24.7	31.8	38.2	43.8	48.1	50.9	52.3
72.5°	8.5	10.6	14.1	16.3	18.4	24.0	29.0	33.2	36.1	38.9	40.3
75°	5.7	7.1	9.9	11.3	12.7	17.0	20.5	24.0	26.2	28.3	29.0
77.5°	3.5	4.9	7.1	7.8	9.2	11.3	14.1	16.3	17.7	19.1	20.5
80°	2.1	2.8	4.2	4.9	5.7	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	5.7	7.1	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	5.7
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°	499.8	499.8	499.8	499.8	499.8	499.8	499.8	499.8
2.5°	497.7	499.8	497.7	499.1	498.4	498.4	497.7	498.4
5°	499.8	502.6	499.8	501.9	500.5	500.5	500.5	501.2
7.5°	501.9	504.7	502.6	504.7	504.0	503.3	503.3	504.7
10°	504.0	506.2	504.7	506.9	506.2	505.4	505.4	506.9
12.5°	504.0	506.9	505.4	507.6	506.9	506.2	506.2	506.9
15°	501.9	505.4	503.3	505.4	504.7	504.0	504.0	505.4
17.5°	495.5	498.4	497.0	498.4	498.4	497.7	498.4	499.1
20°	487.1	489.2	487.8	489.2	489.2	487.8	488.5	489.2
22.5°	475.0	477.2	475.8	477.2	476.5	475.8	475.8	475.0
25°	460.2	463.0	460.9	462.3	460.9	459.5	459.5	460.2
27.5°	441.8	443.9	441.1	442.5	441.1	439.7	439.7	439.0
30°	417.8	418.5	416.4	417.8	416.4	415.7	414.3	414.3
32.5°	388.8	389.5	387.4	387.4	386.0	386.0	383.1	385.3
35°	354.9	355.6	354.9	354.2	352.0	351.3	350.6	350.6
37.5°	319.5	319.5	317.4	316.7	315.3	313.9	314.6	312.5
40°	283.5	282.8	280.6	281.4	280.6	278.5	277.8	277.1
42.5°	249.5	249.5	247.4	248.1	246.7	246.0	243.9	244.6
45°	219.9	219.9	217.7	217.7	217.0	214.9	215.6	214.2
47.5°	193.0	193.0	192.3	192.3	190.2	189.5	189.5	189.5
50°	169.7	169.7	169.7	169.7	169.0	168.2	167.5	168.2
52.5°	149.9	151.3	150.6	150.6	149.9	149.2	148.5	148.5
55°	132.2	132.9	132.9	133.6	132.9	132.2	132.9	132.2
57.5°	116.6	118.1	118.1	118.1	118.1	118.1	117.3	116.6
60°	103.2	103.9	103.9	104.6	104.6	104.6	103.9	103.9
62.5°	89.8	91.2	91.9	91.9	92.6	91.9	91.9	91.9
65°	79.2	80.6	81.3	80.6	81.3	81.3	80.6	80.6
67.5°	66.5	67.9	67.9	67.9	67.9	68.6	67.9	67.9
70°	53.7	55.1	54.4	55.1	55.1	55.1	55.1	55.1
72.5°	41.0	41.7	42.4	42.4	43.1	42.4	42.4	42.4
75°	29.7	31.1	31.1	31.1	31.1	31.8	31.8	31.8
77.5°	21.2	21.9	21.9	22.6	22.6	22.6	22.6	23.3
80°	14.8	14.8	15.6	15.6	16.3	16.3	16.3	16.3
82.5°	9.9	10.6	10.6	10.6	10.6	10.6	10.6	10.6
85°	5.7	6.4	6.4	6.4	6.4	7.1	7.1	7.1
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)