

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: P252239

Luminaire Tested: **LD6B10D010 EU6B10209030 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252239
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 EU6B10209030 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 839.0 lumens
Efficiency: N/A
Efficacy: 83.5 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

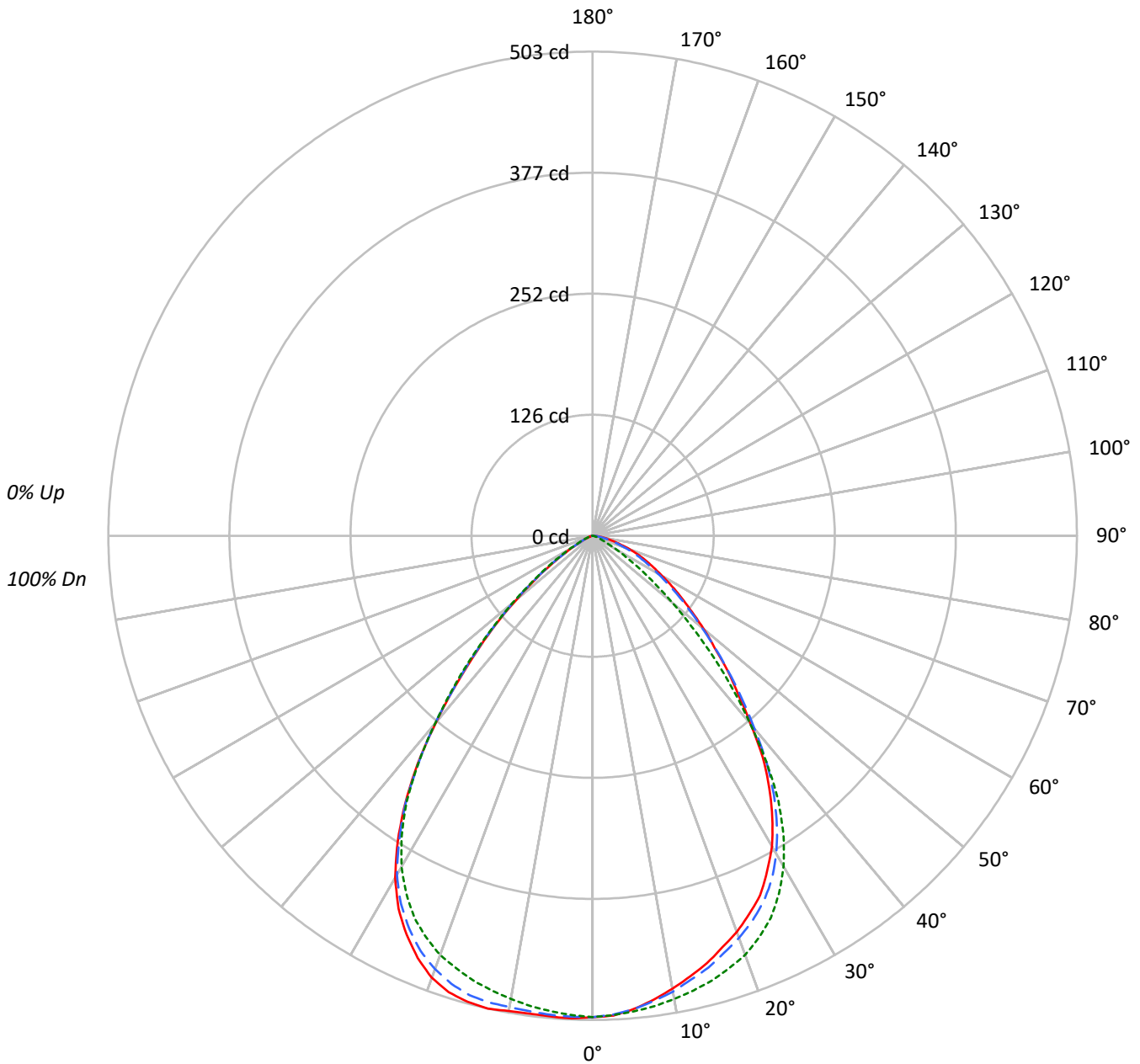
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	32627	32627	32627
5°	32319	32476	32830
10°	31646	32368	33210
15°	31042	32312	33859
20°	30402	32166	33922
25°	29651	31522	32912
30°	28077	29892	30894
35°	25494	26792	27031
40°	21760	21658	21555
45°	18278	16220	15713
50°	15265	10972	10424
55°	12842	6734	6119
60°	10869	3549	3079
65°	9417	1868	1497
70°	7840	1145	801
75°	5798	756	454
80°	4546	451	225
85°	3593	449	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.1	5.6
10°-20°	134.9	16.1
20°-30°	199.3	23.8
30°-40°	205.4	24.5
40°-50°	141.8	16.9
50°-60°	69.9	8.3
60°-70°	28.3	3.4
70°-80°	10.1	1.2
80°-90°	2.1	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°	381.4	45.5
0°-40°	586.7	69.9
0°-60°	798.5	95.2
0°-90°	839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	839.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	500	500	500	500	500	
5°	494	494	496	500	501	47
15°	460	464	478	494	501	129
25°	412	420	438	451	457	188
35°	320	328	336	338	339	198
45°	198	199	176	173	170	153
55°	113	109	59	56	54	102
65°	61	55	12	10	10	61
75°	23	19	3	2	2	26
85°	5	4	1	0	0	6
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°	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1
2.5°	498.9	497.1	498.3	495.9	498.9	495.9	496.5	497.1	496.5	497.1	497.7
5°	493.5	491.6	493.5	490.4	493.5	491.6	491.6	492.2	492.2	492.8	493.5
7.5°	486.2	484.4	486.2	483.2	486.8	485.0	485.0	486.2	485.6	486.2	487.4
10°	477.7	475.3	477.1	475.3	479.0	476.5	477.7	477.7	477.7	479.6	480.8
12.5°	468.7	466.3	468.7	465.7	469.3	467.5	468.1	469.9	470.5	471.7	472.3
15°	459.6	456.6	457.8	456.0	459.6	457.8	458.4	460.8	460.8	462.6	464.5
17.5°	448.2	445.7	448.2	445.7	448.8	447.5	448.8	450.6	450.6	452.4	454.2
20°	437.9	435.5	437.3	435.5	439.1	437.3	437.9	440.3	440.9	442.7	444.5
22.5°	425.2	423.4	424.6	422.8	426.4	425.2	425.8	428.2	428.8	430.0	433.1
25°	411.9	408.3	410.1	408.9	412.5	410.7	411.9	414.3	415.5	417.4	419.8
27.5°	392.6	390.8	392.0	392.0	395.0	393.2	393.8	396.2	398.0	399.8	402.9
30°	372.7	369.6	370.8	371.4	373.9	372.7	373.9	376.3	376.9	379.3	381.7
32.5°	347.3	346.1	348.5	347.3	348.5	348.5	349.1	350.9	352.1	353.3	356.3
35°	320.1	317.7	320.1	318.9	321.9	320.1	321.9	323.7	323.7	326.1	328.0
37.5°	290.5	287.5	288.7	288.7	289.9	289.3	289.3	292.3	292.9	294.7	296.6
40°	255.5	254.3	256.7	256.1	256.7	256.7	257.3	259.1	260.3	260.9	261.5
42.5°	224.1	224.7	225.3	225.3	225.3	225.3	225.3	227.7	227.1	228.9	229.5
45°	198.1	195.7	196.9	196.3	198.1	196.3	198.1	199.9	198.7	200.5	199.3
47.5°	171.5	171.5	171.5	170.9	172.1	171.5	172.7	173.3	173.3	173.3	172.7
50°	150.4	148.6	149.2	149.2	149.8	149.2	150.4	151.0	151.0	149.8	147.4
52.5°	129.9	129.3	129.3	130.5	130.5	129.9	129.9	129.9	129.9	128.0	126.8
55°	112.9	111.7	112.3	112.3	112.3	112.3	112.9	112.3	112.3	110.5	108.7
57.5°	97.8	96.6	96.6	96.6	97.2	96.6	96.6	96.6	96.0	94.2	91.8
60°	83.3	82.7	83.3	83.3	84.0	83.3	83.3	83.3	82.1	80.3	77.9
62.5°	71.3	71.3	71.3	71.9	71.9	71.3	71.3	70.7	70.1	67.6	65.2
65°	61.0	60.4	61.0	61.0	61.6	61.6	61.0	60.4	59.8	57.4	55.0
67.5°	50.7	50.1	50.7	50.7	51.3	50.7	50.7	50.7	48.9	47.7	45.3
70°	41.1	40.5	40.5	40.5	41.1	39.9	40.5	40.5	39.3	37.4	35.0
72.5°	31.4	31.4	31.4	31.4	31.4	31.4	30.8	30.8	29.6	27.8	26.6
75°	23.0	23.0	23.6	23.6	23.0	23.0	23.0	22.3	21.7	20.5	19.3
77.5°	16.9	16.9	16.9	16.9	16.3	16.3	16.3	15.7	15.1	14.5	13.3
80°	12.1	12.1	12.1	11.5	12.1	11.5	11.5	11.5	10.3	9.7	9.1
82.5°	8.5	7.9	7.9	7.9	7.9	7.9	7.9	7.2	7.2	6.6	6.0
85°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.2	3.6	3.6
87.5°	2.4	3.0	3.0	3.0	3.0	3.0	3.0	2.4	2.4	2.4	1.8
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1
2.5°	497.7	497.7	498.9	497.1	500.1	498.3	497.7	500.7	498.9	498.3	499.5
5°	493.5	494.1	494.7	493.5	496.5	494.7	494.7	497.7	496.5	495.9	497.7
7.5°	488.0	488.6	489.8	489.2	491.6	490.4	491.0	494.1	492.8	492.8	494.7
10°	481.4	482.6	483.8	483.8	486.8	485.6	485.6	489.2	488.0	488.6	491.0
12.5°	473.5	475.3	477.1	477.7	480.8	479.0	479.6	483.8	483.2	483.8	486.2
15°	465.1	467.5	469.3	469.3	472.9	471.1	472.9	477.1	475.9	478.4	481.4
17.5°	455.4	457.8	460.2	460.8	464.5	463.3	465.7	469.9	469.9	471.1	474.7
20°	446.3	449.4	450.6	452.4	456.0	455.4	456.6	461.4	461.4	463.3	466.9
22.5°	434.3	437.3	439.7	441.5	444.5	444.5	446.3	450.6	450.6	451.8	455.4
25°	421.0	424.6	426.4	428.2	431.2	430.6	432.4	436.1	436.7	437.9	441.5
27.5°	404.1	407.1	409.5	410.7	414.9	412.5	414.3	418.6	418.0	419.2	422.2
30°	382.9	385.9	388.4	388.4	392.0	392.0	393.8	395.6	395.6	396.8	399.2
32.5°	358.2	361.8	361.8	363.6	366.0	363.6	366.0	368.4	367.2	369.0	370.8
35°	329.8	331.6	332.2	332.2	334.0	333.4	332.8	334.6	333.4	336.4	338.2
37.5°	295.3	297.8	296.6	297.8	297.2	295.3	295.3	298.4	296.0	296.6	298.4
40°	262.1	262.1	261.5	258.5	259.1	257.3	256.7	257.3	254.9	254.3	256.7
42.5°	227.7	227.1	225.3	221.1	221.7	218.6	216.2	216.2	215.0	214.4	215.0
45°	196.9	195.1	192.1	187.2	186.0	183.6	178.8	177.6	175.8	175.8	176.4
47.5°	168.5	166.1	161.3	155.8	152.8	149.8	145.0	143.1	140.1	138.9	140.1
50°	145.0	140.7	134.7	126.8	123.8	120.2	115.4	112.3	109.3	108.1	107.5
52.5°	123.2	117.2	111.1	101.5	99.1	95.4	88.8	85.8	82.7	80.3	80.3
55°	104.5	99.1	90.6	81.5	77.9	74.3	67.6	63.4	60.4	59.2	58.0
57.5°	87.6	81.5	73.7	64.0	60.4	56.8	50.1	45.9	42.9	41.1	39.9
60°	73.7	67.0	59.2	50.7	46.5	42.9	36.2	32.0	29.0	27.2	26.0
62.5°	60.4	55.0	47.1	39.3	35.6	32.0	26.6	22.3	19.3	18.1	16.3
65°	50.7	45.3	38.1	31.4	28.4	24.8	19.9	16.3	13.9	12.1	10.9
67.5°	41.1	36.8	30.8	24.8	21.7	19.3	15.1	12.1	9.7	8.5	7.9
70°	32.6	28.4	23.6	18.7	16.9	14.5	11.5	8.5	7.2	6.0	5.4
72.5°	24.2	21.1	17.5	13.9	12.1	10.9	7.9	6.6	4.8	4.2	3.6
75°	17.5	15.1	12.7	9.7	8.5	7.9	6.0	4.2	3.6	3.0	2.4
77.5°	12.1	10.9	8.5	6.6	6.0	5.4	4.2	3.0	2.4	1.8	1.8
80°	7.9	6.6	5.4	4.2	4.2	3.6	2.4	1.8	1.8	1.2	1.2
82.5°	4.8	4.2	3.6	3.0	2.4	2.4	1.8	1.2	1.2	0.6	0.6
85°	3.0	2.4	1.8	1.8	1.2	1.2	1.2	0.6	0.6	0.6	0.6
87.5°	1.2	1.2	1.2	0.6	0.6	0.6	0.6	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°	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1
2.5°	499.5	499.5	500.7	498.9	500.1	500.1	501.3	498.9	500.1	500.7	501.9
5°	497.1	497.7	498.9	498.3	498.9	498.9	500.1	497.1	499.5	499.5	501.3
7.5°	494.7	494.7	495.9	495.3	496.5	497.1	498.3	495.9	498.3	498.3	500.1
10°	491.6	491.6	493.5	492.8	494.7	495.3	497.1	494.7	497.1	497.7	499.5
12.5°	487.4	488.0	489.8	489.8	491.6	492.8	494.7	493.5	496.5	497.1	499.5
15°	482.6	483.8	486.2	485.6	487.4	489.2	491.6	489.8	494.1	495.3	497.7
17.5°	476.5	477.7	479.6	479.6	481.4	482.6	485.6	484.4	488.0	488.6	491.6
20°	467.5	469.3	471.7	471.1	472.9	474.1	476.5	475.3	479.0	480.2	483.2
22.5°	456.6	457.8	459.6	459.6	461.4	462.6	465.1	463.3	466.9	467.5	469.9
25°	442.1	443.3	444.5	445.1	446.9	447.5	448.8	447.5	450.6	451.2	454.2
27.5°	423.4	424.0	425.8	425.8	427.0	427.6	429.4	427.0	431.2	431.2	433.1
30°	401.0	400.4	402.9	401.6	402.9	402.9	404.7	403.5	406.5	405.3	407.1
32.5°	371.4	372.7	372.7	371.4	373.9	373.3	373.3	372.1	373.9	374.5	375.7
35°	337.0	338.8	338.8	339.4	340.0	338.2	338.8	335.2	338.2	338.8	339.4
37.5°	299.6	297.8	299.0	297.2	300.2	296.6	296.6	294.1	296.6	296.6	297.2
40°	256.7	256.1	257.3	256.1	255.5	254.9	253.7	251.9	254.3	253.1	254.9
42.5°	216.2	215.6	215.6	214.4	213.8	213.8	212.6	211.4	210.8	210.8	213.8
45°	174.6	175.8	174.6	173.9	175.2	173.9	174.6	172.1	173.3	172.1	173.3
47.5°	139.5	140.1	138.9	137.7	139.5	137.7	137.7	135.9	138.3	138.3	137.1
50°	108.1	107.5	106.3	107.5	106.9	106.9	106.9	105.1	106.3	104.5	105.7
52.5°	79.7	79.1	79.1	78.5	79.1	78.5	78.5	77.9	77.9	77.3	77.9
55°	58.0	57.4	56.2	56.2	56.2	56.8	56.2	55.6	55.6	55.0	55.6
57.5°	39.3	38.1	38.1	38.1	38.1	37.4	37.4	36.8	37.4	36.8	37.4
60°	25.4	25.4	24.2	24.2	24.2	24.2	24.2	23.6	24.2	24.2	24.2
62.5°	15.7	15.7	15.1	14.5	15.1	14.5	14.5	14.5	15.1	14.5	15.1
65°	10.3	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
67.5°	7.2	6.6	6.6	6.6	6.6	6.6	6.6	6.0	6.6	6.6	6.6
70°	4.8	4.8	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
72.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
75°	2.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
77.5°	1.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
80°	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
85°	0.6	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	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1
2.5°	500.1	500.7	499.5	500.1	498.9	500.1	500.7	501.9
5°	498.9	499.5	498.3	499.5	498.3	499.5	500.1	501.3
7.5°	497.7	498.9	497.7	498.9	497.7	498.9	499.5	500.7
10°	497.7	499.5	498.3	500.1	498.3	499.5	500.7	501.3
12.5°	497.7	499.5	498.9	500.1	499.5	500.7	501.9	503.1
15°	496.5	498.3	497.1	498.9	498.3	498.9	501.3	501.3
17.5°	489.8	491.6	491.6	492.8	492.8	494.7	495.9	497.1
20°	481.4	483.2	482.6	484.4	484.4	486.2	487.4	488.6
22.5°	468.7	471.1	470.5	472.3	471.7	472.9	475.3	474.7
25°	452.4	455.4	454.8	456.0	455.4	455.4	456.6	457.2
27.5°	432.4	434.3	433.7	434.9	433.7	434.9	436.1	436.7
30°	406.5	407.7	407.1	407.7	407.1	408.3	408.9	410.1
32.5°	375.1	376.9	375.1	376.3	375.7	375.7	378.1	376.9
35°	337.6	338.2	338.8	338.8	337.6	338.2	339.4	339.4
37.5°	296.0	299.0	295.3	297.2	296.6	296.6	296.6	298.4
40°	252.5	253.1	251.9	251.9	251.9	251.3	253.7	253.1
42.5°	211.4	212.0	211.4	209.6	210.2	210.2	212.0	209.6
45°	171.5	172.7	172.1	172.1	170.9	170.9	171.5	170.3
47.5°	135.9	137.1	135.3	135.9	134.7	135.9	135.3	136.5
50°	103.3	104.5	103.9	104.5	104.5	103.3	105.1	102.7
52.5°	77.3	77.9	77.3	76.7	76.1	76.1	77.3	76.7
55°	55.0	54.4	54.4	54.4	55.0	55.0	54.4	53.8
57.5°	36.8	36.8	36.2	36.2	36.8	35.6	36.2	35.6
60°	23.6	23.6	23.6	23.6	23.0	23.6	23.6	23.6
62.5°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
65°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
67.5°	6.0	6.6	6.6	6.6	6.0	6.0	6.0	6.0
70°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
72.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
75°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.6	0.6	0.6	0.6	0.6	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)