

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: P252672

Luminaire Tested: **LD6B15D010 EU6B10209727 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252672
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 EU6B10209727 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE 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: 977.0 lumens
Efficiency: N/A
Efficacy: 67.9 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

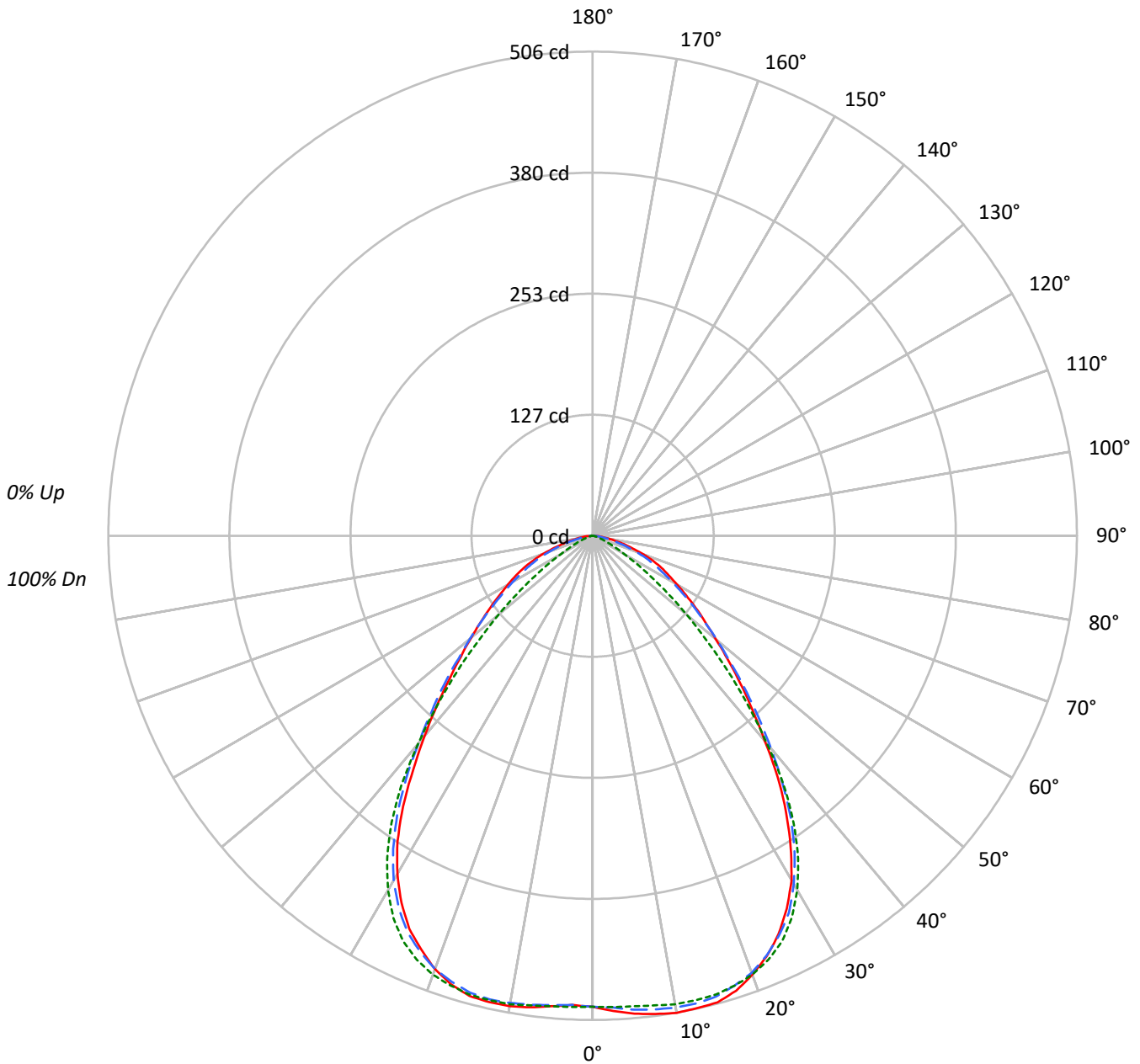
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	32111	32111	32111
5°	32830	32326	32326
10°	33534	32931	33071
15°	34095	33528	33622
20°	33888	33888	33450
25°	33077	33682	32624
30°	31309	32205	30736
35°	28059	29166	27501
40°	23838	24136	23242
45°	20169	18434	19468
50°	17031	13002	16818
55°	14969	8394	14809
60°	13257	4997	13348
65°	12257	3010	12257
70°	10625	1736	10358
75°	8419	1059	7890
80°	6274	789	6011
85°	5764	524	5240



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	4.9
10°-20°	140.3	14.4
20°-30°	210.9	21.6
30°-40°	221.8	22.7
40°-50°	165.7	17.0
50°-60°	103.1	10.6
60°-70°	58.7	6.0
70°-80°	24.2	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°	398.6	40.8
0°-40°	620.4	63.5
0°-60°	889.2	91.0
0°-90°	977.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	977.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	492	492	492	492	492	
5°	501	497	494	492	494	48
15°	505	498	496	494	498	142
25°	460	461	468	457	453	210
35°	352	361	366	356	345	219
45°	219	224	200	219	211	169
55°	132	129	74	127	130	118
65°	79	71	20	71	79	78
75°	33	26	4	26	31	36
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°	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2
2.5°	497.1	496.4	497.1	495.7	495.0	495.0	495.7	494.3	493.6	494.3	493.6
5°	501.3	499.9	500.6	499.9	498.5	498.5	499.2	497.1	497.1	497.8	497.1
7.5°	504.1	504.1	504.1	502.7	502.0	501.3	502.7	500.6	499.9	499.9	499.2
10°	506.2	505.5	506.2	504.8	503.4	502.7	504.1	502.7	501.3	502.7	500.6
12.5°	505.5	505.5	505.5	504.8	503.4	502.7	504.1	502.0	501.3	502.0	500.6
15°	504.8	502.7	503.4	502.7	500.6	500.6	501.3	499.2	497.8	499.9	498.5
17.5°	498.5	497.1	497.8	496.4	495.0	494.3	495.0	494.3	492.9	494.3	492.9
20°	488.1	488.1	488.8	487.4	486.0	485.3	486.7	485.3	483.9	486.0	486.0
22.5°	475.5	475.5	475.5	474.8	474.1	474.1	474.1	473.4	472.7	474.1	474.8
25°	459.5	458.8	459.5	460.2	459.5	458.8	459.5	459.5	458.1	460.9	460.9
27.5°	439.3	439.3	440.7	440.0	440.0	439.3	440.7	440.7	440.0	442.1	444.2
30°	415.6	414.3	415.6	415.6	416.3	416.3	417.0	417.0	417.0	419.1	420.5
32.5°	385.0	385.7	387.8	387.1	386.4	388.5	388.5	389.9	390.6	392.0	392.7
35°	352.3	353.0	353.0	353.7	355.1	353.7	357.2	356.5	357.2	360.0	361.3
37.5°	317.5	315.4	318.9	317.5	318.2	318.2	319.6	320.3	322.4	325.8	325.8
40°	279.9	280.6	282.0	282.7	283.4	283.4	283.4	285.5	286.1	290.3	289.6
42.5°	247.2	247.2	248.6	249.2	249.2	249.2	249.2	251.3	252.7	254.1	255.5
45°	218.6	216.5	217.9	217.9	219.3	218.6	220.0	221.4	222.1	224.2	223.5
47.5°	191.5	190.8	191.5	192.2	191.5	192.2	192.9	193.6	194.2	194.2	194.2
50°	167.8	167.8	168.5	169.2	169.2	169.2	169.2	169.9	169.9	171.3	169.9
52.5°	148.3	149.0	149.0	148.3	149.0	149.0	149.7	149.7	149.0	149.0	146.9
55°	131.6	130.9	131.6	130.9	131.6	131.6	130.9	130.9	130.2	129.5	128.8
57.5°	115.6	115.6	115.6	115.6	114.9	115.6	114.9	114.2	114.2	112.8	110.7
60°	101.6	101.6	101.6	101.6	101.6	101.0	101.6	101.0	99.6	98.2	95.4
62.5°	89.8	89.1	89.8	89.1	89.1	88.4	88.4	87.7	86.3	84.9	82.2
65°	79.4	80.1	79.4	79.4	78.7	78.0	78.0	77.3	75.2	73.8	71.0
67.5°	68.2	67.5	67.5	67.5	66.8	66.8	66.8	65.4	64.1	62.0	59.2
70°	55.7	55.7	55.7	55.0	55.0	54.3	54.3	53.6	52.2	50.8	47.3
72.5°	43.9	43.9	43.9	42.5	43.2	42.5	42.5	41.1	40.4	38.3	36.2
75°	33.4	33.4	32.7	32.7	32.0	31.3	31.3	30.6	29.9	28.5	26.5
77.5°	24.4	24.4	24.4	23.7	23.0	22.3	22.3	21.6	20.9	20.2	18.8
80°	16.7	16.7	16.7	16.7	16.0	15.3	15.3	14.6	14.6	13.9	12.5
82.5°	11.1	11.1	11.1	11.1	10.4	10.4	10.4	9.7	9.1	9.1	7.7
85°	7.7	7.7	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°	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2
2.5°	495.7	495.7	495.0	492.9	493.6	492.9	493.6	492.9	490.8	492.9	490.8
5°	498.5	499.2	497.8	495.0	495.7	495.0	495.0	494.3	492.2	493.6	492.2
7.5°	501.3	500.6	499.9	497.1	497.8	497.1	497.1	495.7	493.6	495.0	492.9
10°	502.7	502.7	501.3	498.5	498.5	497.8	498.5	497.8	495.0	497.1	495.7
12.5°	502.7	502.0	502.0	498.5	499.2	498.5	499.2	497.8	495.7	497.1	496.4
15°	500.6	500.6	499.9	496.4	497.1	497.1	497.8	496.4	494.3	496.4	495.0
17.5°	496.4	496.4	495.7	492.9	494.3	494.3	495.0	493.6	491.5	492.9	492.9
20°	488.1	488.8	488.8	486.7	488.1	488.1	488.8	488.1	487.4	488.1	486.7
22.5°	478.3	479.7	479.7	477.6	479.0	479.0	481.1	480.4	479.0	479.7	479.0
25°	463.7	465.1	466.5	465.1	466.5	466.5	468.6	467.9	466.5	467.9	465.8
27.5°	447.0	447.7	449.1	447.7	449.8	449.1	451.2	450.5	448.4	450.5	449.8
30°	423.3	426.1	428.2	426.1	428.2	428.2	429.6	428.9	428.2	427.5	427.5
32.5°	396.9	399.6	399.6	398.9	400.3	400.3	401.0	399.6	398.9	399.6	400.3
35°	364.1	365.5	366.9	366.2	366.9	367.6	366.9	367.6	365.5	366.2	366.2
37.5°	328.6	330.0	330.0	327.9	329.3	329.3	327.9	327.9	326.5	327.9	325.1
40°	291.0	289.6	290.3	288.9	287.5	287.5	286.8	284.1	282.7	283.4	284.1
42.5°	254.1	254.1	252.0	248.6	245.1	245.1	243.0	241.6	238.8	240.2	239.5
45°	222.8	219.3	216.5	211.0	208.9	207.5	204.0	200.5	199.1	199.8	199.1
47.5°	192.9	190.1	183.1	175.4	173.4	171.3	167.1	162.9	161.5	160.1	160.1
50°	167.8	162.9	155.3	146.9	143.4	139.9	134.4	130.2	127.4	128.1	128.1
52.5°	144.8	139.2	130.2	119.8	115.6	111.4	106.5	101.6	99.6	98.9	98.9
55°	124.6	118.4	109.3	97.5	94.0	89.1	82.9	77.3	74.5	73.8	75.2
57.5°	106.5	101.0	90.5	78.7	74.5	69.6	63.4	58.5	55.0	54.3	55.0
60°	91.9	84.2	75.2	64.1	58.5	54.3	47.3	43.2	39.7	38.3	39.0
62.5°	77.3	70.3	61.3	50.1	46.0	41.8	35.5	30.6	27.8	27.2	27.8
65°	66.1	59.2	50.8	41.1	36.9	32.7	27.2	22.3	20.2	19.5	20.2
67.5°	55.0	48.7	41.8	32.7	29.2	25.8	20.2	16.7	13.9	13.2	13.9
70°	44.6	39.0	32.0	25.8	22.3	19.5	15.3	11.8	9.7	9.1	9.7
72.5°	33.4	29.2	24.4	18.8	16.7	14.6	11.1	8.4	7.0	6.3	7.0
75°	24.4	20.9	17.4	13.2	11.8	10.4	7.7	5.6	4.9	4.2	4.9
77.5°	16.7	14.6	11.8	9.1	7.7	7.0	4.9	4.2	3.5	2.8	2.8
80°	11.1	9.7	7.7	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°	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2
2.5°	492.2	490.8	490.8	491.5	492.2	492.9	491.5	490.8	490.8	492.9	491.5
5°	492.2	491.5	491.5	491.5	492.9	493.6	492.2	491.5	492.2	494.3	493.6
7.5°	494.3	492.9	493.6	493.6	494.3	495.7	494.3	493.6	494.3	496.4	495.0
10°	495.7	494.3	495.0	494.3	496.4	497.1	495.7	495.0	495.7	498.5	497.8
12.5°	496.4	495.7	495.7	495.0	497.1	497.8	496.4	495.7	496.4	498.5	497.8
15°	495.0	494.3	494.3	494.3	495.7	497.1	495.0	494.3	494.3	496.4	495.7
17.5°	492.2	490.8	490.8	490.8	491.5	492.2	490.1	489.4	488.8	490.8	490.1
20°	487.4	486.0	484.6	484.6	485.3	485.3	483.9	481.8	481.8	482.5	481.1
22.5°	478.3	477.6	476.2	475.5	476.9	476.2	473.4	471.3	470.7	471.3	470.0
25°	465.8	464.4	463.7	463.0	463.7	463.0	460.2	457.4	457.4	457.4	455.3
27.5°	448.4	447.0	446.3	446.3	447.0	445.6	442.8	440.0	438.6	438.6	436.5
30°	426.1	426.1	425.4	424.7	424.0	424.0	419.8	417.0	415.6	416.3	415.0
32.5°	398.9	398.2	397.5	395.5	396.2	395.5	392.0	389.9	387.8	386.4	385.7
35°	364.1	364.1	363.4	363.4	363.4	362.7	359.3	357.2	355.8	355.1	353.0
37.5°	325.8	325.1	324.4	324.4	324.4	324.4	322.4	320.3	320.3	319.6	318.2
40°	282.7	283.4	284.1	283.4	285.5	287.5	284.8	283.4	282.7	284.8	282.0
42.5°	240.9	240.2	243.7	244.4	244.4	247.9	248.6	249.2	248.6	249.9	249.9
45°	200.5	199.8	203.3	204.7	208.2	212.3	214.4	217.9	219.3	220.7	219.3
47.5°	162.2	165.0	167.8	171.3	174.1	181.0	185.2	188.7	190.1	192.2	192.2
50°	130.2	133.0	137.9	140.6	144.1	152.5	159.4	164.3	167.1	169.2	168.5
52.5°	100.3	105.1	111.4	114.2	119.1	128.8	136.5	142.0	145.5	147.6	148.3
55°	77.3	81.5	87.7	91.9	96.8	107.2	117.0	123.2	126.7	129.5	130.9
57.5°	57.1	62.0	68.9	72.4	78.0	89.8	98.2	105.8	110.0	113.5	114.2
60°	41.8	46.6	52.9	57.1	62.7	74.5	84.2	91.2	96.1	98.9	100.3
62.5°	29.9	34.8	41.1	45.3	50.1	60.6	70.3	77.3	82.2	85.6	87.7
65°	21.6	26.5	32.7	36.2	40.4	50.1	59.2	66.1	71.0	75.2	76.6
67.5°	16.0	19.5	25.1	28.5	32.7	40.4	48.0	54.3	59.2	62.7	64.1
70°	11.8	14.6	19.5	21.6	24.4	31.3	37.6	43.2	47.3	50.1	51.5
72.5°	8.4	10.4	13.9	16.0	18.1	23.7	28.5	32.7	35.5	38.3	39.7
75°	5.6	7.0	9.7	11.1	12.5	16.7	20.2	23.7	25.8	27.8	28.5
77.5°	3.5	4.9	7.0	7.7	9.1	11.1	13.9	16.0	17.4	18.8	20.2
80°	2.1	2.8	4.2	4.9	5.6	7.7	9.1	10.4	11.8	13.2	13.9
82.5°	1.4	2.1	2.8	2.8	3.5	4.2	5.6	7.0	7.7	8.4	9.1
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°	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2
2.5°	490.1	492.2	490.1	491.5	490.8	490.8	490.1	490.8
5°	492.2	495.0	492.2	494.3	492.9	492.9	492.9	493.6
7.5°	494.3	497.1	495.0	497.1	496.4	495.7	495.7	497.1
10°	496.4	498.5	497.1	499.2	498.5	497.8	497.8	499.2
12.5°	496.4	499.2	497.8	499.9	499.2	498.5	498.5	499.2
15°	494.3	497.8	495.7	497.8	497.1	496.4	496.4	497.8
17.5°	488.1	490.8	489.4	490.8	490.8	490.1	490.8	491.5
20°	479.7	481.8	480.4	481.8	481.8	480.4	481.1	481.8
22.5°	467.9	470.0	468.6	470.0	469.3	468.6	468.6	467.9
25°	453.2	456.0	453.9	455.3	453.9	452.5	452.5	453.2
27.5°	435.1	437.2	434.4	435.8	434.4	433.1	433.1	432.4
30°	411.5	412.2	410.1	411.5	410.1	409.4	408.0	408.0
32.5°	382.9	383.6	381.5	381.5	380.1	380.1	377.4	379.4
35°	349.5	350.2	349.5	348.8	346.7	346.0	345.3	345.3
37.5°	314.7	314.7	312.6	311.9	310.5	309.1	309.8	307.7
40°	279.2	278.5	276.4	277.1	276.4	274.3	273.6	272.9
42.5°	245.8	245.8	243.7	244.4	243.0	242.3	240.2	240.9
45°	216.5	216.5	214.4	214.4	213.7	211.7	212.3	211.0
47.5°	190.1	190.1	189.4	189.4	187.3	186.6	186.6	186.6
50°	167.1	167.1	167.1	167.1	166.4	165.7	165.0	165.7
52.5°	147.6	149.0	148.3	148.3	147.6	146.9	146.2	146.2
55°	130.2	130.9	130.9	131.6	130.9	130.2	130.9	130.2
57.5°	114.9	116.3	116.3	116.3	116.3	116.3	115.6	114.9
60°	101.6	102.3	102.3	103.0	103.0	103.0	102.3	102.3
62.5°	88.4	89.8	90.5	90.5	91.2	90.5	90.5	90.5
65°	78.0	79.4	80.1	79.4	80.1	80.1	79.4	79.4
67.5°	65.4	66.8	66.8	66.8	66.8	67.5	66.8	66.8
70°	52.9	54.3	53.6	54.3	54.3	54.3	54.3	54.3
72.5°	40.4	41.1	41.8	41.8	42.5	41.8	41.8	41.8
75°	29.2	30.6	30.6	30.6	30.6	31.3	31.3	31.3
77.5°	20.9	21.6	21.6	22.3	22.3	22.3	22.3	23.0
80°	14.6	14.6	15.3	15.3	16.0	16.0	16.0	16.0
82.5°	9.7	10.4	10.4	10.4	10.4	10.4	10.4	10.4
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)