

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: P252550

Luminaire Tested: **LD6B10D010 EU6B10209027 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252550
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B10D010 EU6B10209027 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 870.0 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

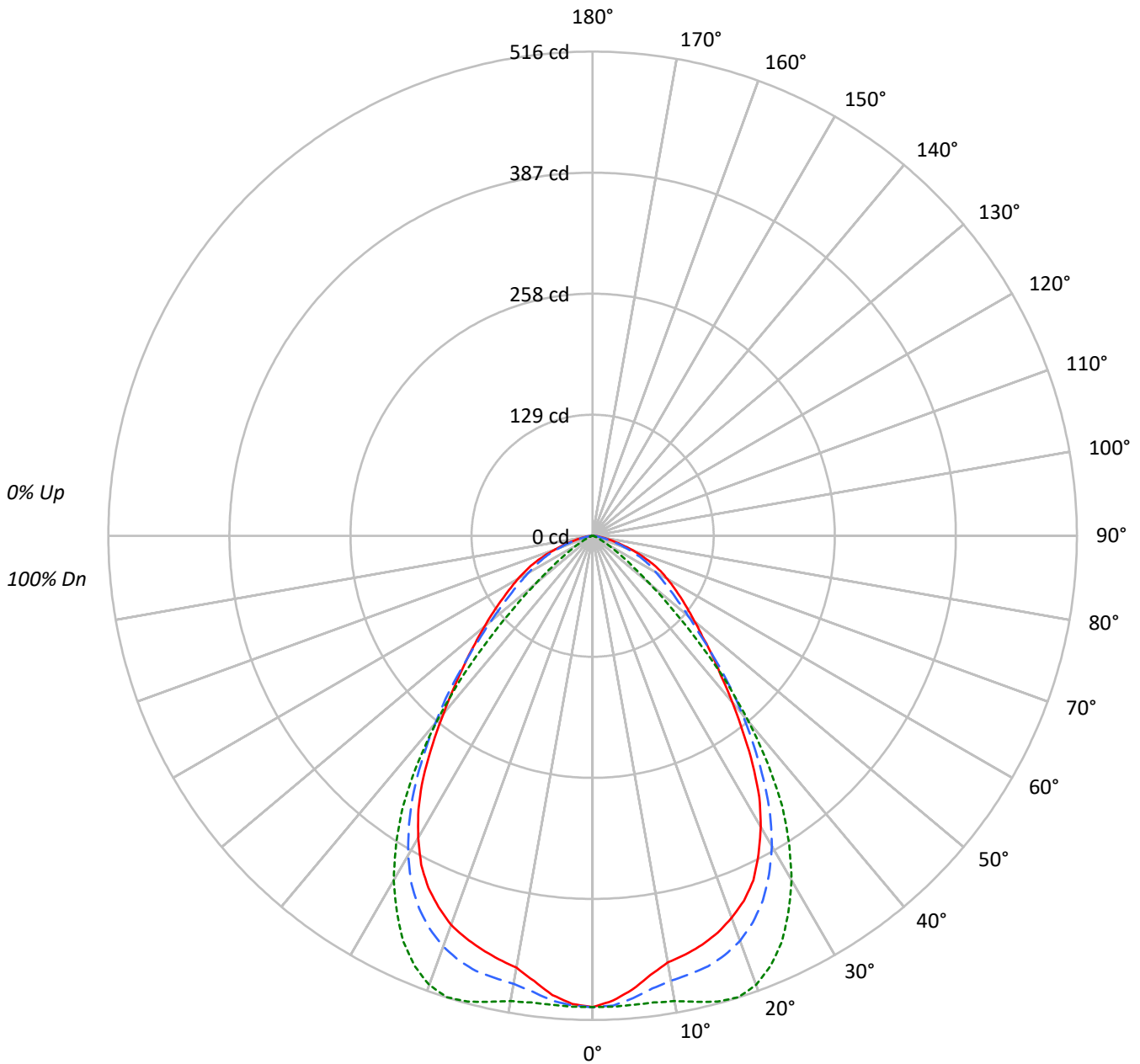
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89								
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79								
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70								
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62								
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56								
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50								
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46								
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42								
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38								
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	32770	32770	32770
5°	31795	32856	32175
10°	30580	33355	30971
15°	30475	34710	30826
20°	30076	35359	30638
25°	29176	34358	29802
30°	26992	31934	27994
35°	23678	28075	25064
40°	19733	22007	21019
45°	16608	14522	17733
50°	14382	7957	15265
55°	13012	4231	13342
60°	11965	2192	11965
65°	10852	1158	10575
70°	8755	668	8088
75°	5999	429	5571
80°	3945	225	3494
85°	2620	449	2171



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	5.4
10°-20°	135.4	15.6
20°-30°	200.1	23.0
30°-40°	202.1	23.2
40°-50°	139.3	16.0
50°-60°	80.0	9.2
60°-70°	46.6	5.4
70°-80°	17.0	2.0
80°-90°	2.6	0.3
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°	382.4	44.0
0°-40°	584.5	67.2
0°-60°	803.8	92.4
0°-90°	870.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	870.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	502	502	502	502	502	
5°	486	495	502	497	491	46
15°	451	475	514	480	456	127
25°	405	429	477	438	414	185
35°	297	318	352	332	315	185
45°	180	182	157	194	192	140
55°	114	100	37	104	117	103
65°	70	59	8	59	68	69
75°	24	19	2	19	22	27
85°	4	2	1	2	3	4
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°	502.3	502.3	502.3	502.3	502.3	502.3	502.3	502.3	502.3	502.3	502.3
2.5°	495.9	496.5	497.1	496.5	497.1	499.4	497.6	498.8	498.8	499.4	501.1
5°	485.5	485.5	486.6	486.0	487.8	490.1	488.4	490.1	490.7	491.8	494.7
7.5°	472.1	472.1	472.7	472.7	475.0	477.3	476.2	478.5	480.8	483.1	486.6
10°	461.6	462.8	462.8	463.4	465.7	468.6	468.0	470.9	473.3	476.7	481.4
12.5°	457.0	457.6	457.6	458.7	461.1	464.0	463.4	466.3	469.8	473.8	478.5
15°	451.2	452.4	451.8	452.9	455.3	458.2	457.6	460.5	464.5	468.6	475.0
17.5°	443.6	444.2	444.8	444.8	447.1	449.5	449.5	452.4	457.0	461.6	468.6
20°	433.2	434.4	434.4	434.9	436.7	440.2	439.6	442.5	447.1	451.8	459.3
22.5°	421.0	421.6	421.6	422.2	425.1	426.8	427.4	429.7	433.8	439.0	446.0
25°	405.3	405.9	405.3	407.1	408.2	411.7	410.5	413.4	418.1	422.2	429.1
27.5°	382.7	383.8	383.8	384.4	387.3	390.2	390.2	393.1	397.2	400.1	407.1
30°	358.3	360.0	358.3	361.2	362.3	364.7	366.4	368.2	371.6	375.7	382.1
32.5°	330.4	329.8	330.4	331.6	335.1	336.8	338.0	339.7	343.2	346.7	351.9
35°	297.3	298.5	299.1	301.4	301.4	304.3	304.9	306.0	311.2	313.6	317.6
37.5°	262.5	263.6	264.2	265.4	267.7	268.9	270.6	272.3	275.8	279.9	282.2
40°	231.7	231.7	232.3	233.4	235.2	235.8	237.5	239.8	242.1	245.6	248.0
42.5°	202.7	203.2	202.7	203.8	205.6	207.9	207.3	210.2	210.8	213.1	214.9
45°	180.0	180.0	178.9	180.0	180.0	182.3	181.8	182.9	182.3	183.5	182.3
47.5°	158.5	159.1	158.5	159.1	159.1	159.1	159.7	158.5	159.1	157.4	153.9
50°	141.7	142.3	141.1	141.7	141.1	140.5	141.1	139.4	138.8	136.5	133.0
52.5°	127.2	126.6	126.0	126.0	126.0	125.4	124.8	123.1	121.4	119.0	115.0
55°	114.4	113.8	113.2	113.2	112.1	111.5	111.5	109.7	108.0	105.1	100.5
57.5°	102.8	102.2	101.6	101.6	101.0	99.9	99.9	98.1	95.8	92.3	88.3
60°	91.7	91.7	91.7	91.2	91.2	90.0	90.0	88.3	85.9	82.5	77.8
62.5°	81.9	81.3	81.3	81.3	81.3	80.7	80.1	79.0	76.7	73.2	69.1
65°	70.3	70.3	70.3	70.3	69.7	69.7	69.7	67.9	66.8	63.3	59.2
67.5°	57.5	57.5	57.5	57.5	56.9	57.5	57.5	56.3	55.2	51.7	48.2
70°	45.9	45.3	44.7	45.3	44.7	44.7	45.3	44.1	43.6	40.6	37.2
72.5°	33.7	34.3	33.7	33.7	33.7	33.1	33.7	33.1	31.9	29.6	27.3
75°	23.8	24.4	24.4	23.8	23.8	23.8	23.2	23.2	22.1	20.3	19.2
77.5°	16.3	16.3	16.3	16.3	15.7	15.7	15.7	15.1	14.5	13.4	12.2
80°	10.5	10.5	10.5	10.5	9.9	9.9	9.9	9.3	9.3	8.1	7.0
82.5°	6.4	6.4	6.4	6.4	6.4	6.4	5.8	5.8	5.2	4.6	4.1
85°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	2.9	2.9	2.3	1.7
87.5°	1.2	1.2	1.7	1.7	1.7	1.7	1.7	1.7	1.2	1.2	1.2
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°	502.3	502.3	502.3	502.3	502.3	502.3	502.3	502.3	502.3	502.3	502.3
2.5°	500.0	500.6	500.6	500.6	502.3	502.9	501.1	499.4	502.9	502.3	503.5
5°	494.2	495.9	497.1	497.6	499.4	500.6	498.8	498.2	501.1	501.7	502.3
7.5°	487.2	490.1	493.0	494.2	496.5	497.6	497.1	497.1	500.6	501.7	501.7
10°	482.6	486.6	490.1	493.0	495.9	497.6	497.6	498.2	502.3	503.5	504.6
12.5°	481.4	486.6	491.3	495.3	497.6	500.6	501.1	502.9	506.9	508.7	508.7
15°	478.5	485.5	491.3	496.5	500.0	503.5	504.6	508.1	512.7	513.9	515.1
17.5°	473.3	480.2	487.2	493.6	498.2	501.1	504.6	508.1	513.9	515.7	516.2
20°	464.0	472.1	479.1	485.5	490.1	494.2	497.6	501.7	506.9	509.3	509.8
22.5°	450.0	458.2	465.1	472.1	476.7	480.2	483.7	488.4	493.6	495.9	495.9
25°	433.2	440.7	448.3	453.5	458.2	462.2	464.0	469.2	474.4	477.3	477.3
27.5°	411.7	418.7	425.6	431.5	434.4	437.8	440.7	445.4	449.5	451.8	454.1
30°	384.4	391.4	397.8	403.6	407.1	410.5	413.4	416.9	421.0	423.9	424.5
32.5°	354.8	360.6	367.0	372.8	376.3	377.4	380.4	383.8	387.3	389.6	390.2
35°	322.3	326.3	330.4	335.6	339.1	339.1	342.0	344.3	347.3	352.5	351.3
37.5°	284.0	289.8	292.7	294.4	296.7	299.1	299.6	302.5	306.0	307.2	308.9
40°	248.0	249.7	251.4	251.4	253.8	253.8	253.8	254.3	257.8	258.4	260.7
42.5°	212.0	212.0	210.2	208.5	209.0	208.5	205.6	205.6	207.3	209.6	209.6
45°	178.3	174.2	169.0	164.9	162.0	160.9	157.4	157.4	156.8	157.4	159.7
47.5°	149.8	142.8	134.1	126.0	123.1	120.8	115.6	113.2	112.1	112.7	113.8
50°	126.0	118.5	108.6	98.7	93.5	90.6	84.2	80.1	79.6	78.4	80.7
52.5°	108.6	99.3	88.8	77.2	72.0	67.4	60.4	56.9	54.6	54.6	55.2
55°	93.5	83.6	72.0	60.4	55.2	51.7	44.7	40.1	37.7	37.2	38.9
57.5°	80.7	71.4	59.8	48.2	43.0	38.9	31.9	27.9	26.1	25.0	25.6
60°	70.8	61.6	49.9	38.9	34.3	29.6	23.8	19.2	16.8	16.8	17.4
62.5°	61.6	52.8	42.4	31.9	27.9	23.8	17.4	13.4	11.6	11.0	11.6
65°	52.3	44.1	35.4	26.7	22.6	19.2	13.9	10.5	8.1	7.5	8.1
67.5°	42.4	36.0	28.5	21.5	18.0	15.1	10.5	7.5	5.8	5.2	5.8
70°	33.1	27.3	21.5	15.7	13.4	11.0	7.5	5.8	4.1	3.5	4.1
72.5°	23.8	19.7	15.1	11.0	9.3	7.5	5.2	4.1	2.9	2.3	2.9
75°	16.3	13.4	9.9	7.0	5.8	5.2	3.5	2.3	1.7	1.7	1.7
77.5°	10.5	8.1	6.4	4.6	3.5	2.9	1.7	1.2	1.2	1.2	1.2
80°	5.8	4.6	3.5	2.3	1.7	1.7	1.2	1.2	0.6	0.6	0.6
82.5°	3.5	2.3	1.7	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6
85°	1.7	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
87.5°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	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°	502.3	502.3	502.3	502.3	502.3	502.3	502.3	502.3	502.3	502.3	502.3
2.5°	501.1	501.7	500.0	502.3	500.6	502.9	502.9	500.6	501.1	500.0	502.3
5°	500.0	500.0	498.8	500.6	498.2	500.6	500.0	495.9	497.1	494.7	497.1
7.5°	500.0	498.8	497.1	498.8	495.9	497.6	495.3	491.3	490.1	487.2	487.2
10°	501.7	500.0	497.6	498.2	495.3	495.9	492.4	486.6	484.9	481.4	480.2
12.5°	505.8	504.0	500.6	501.7	497.6	497.6	493.0	486.0	482.6	477.9	476.7
15°	511.6	508.7	504.6	505.2	501.1	498.8	493.0	484.9	480.2	473.8	472.1
17.5°	512.7	509.8	504.6	504.6	499.4	496.5	489.5	480.2	474.4	468.0	464.5
20°	506.4	503.5	497.6	497.1	492.4	488.4	480.8	471.5	465.7	458.7	455.8
22.5°	493.0	489.5	484.3	483.7	479.1	476.7	468.6	459.3	453.5	446.5	444.2
25°	473.3	471.5	466.3	465.7	461.6	458.7	451.8	443.1	437.8	430.9	428.5
27.5°	450.0	448.3	443.1	443.1	438.4	436.7	430.3	422.2	418.1	411.7	408.8
30°	422.2	419.8	416.9	416.4	412.3	410.5	404.7	397.2	393.1	387.9	386.7
32.5°	389.1	387.3	385.6	385.0	380.9	379.2	375.1	367.6	364.1	359.4	357.7
35°	350.7	349.6	347.8	347.3	345.5	343.8	339.7	333.9	332.2	328.7	326.9
37.5°	306.6	307.8	306.6	306.6	304.9	305.4	302.0	298.5	296.7	294.4	293.2
40°	259.0	261.3	263.1	263.1	262.5	264.8	264.2	261.3	260.7	259.6	259.0
42.5°	210.8	212.0	215.4	217.8	217.2	223.0	223.6	225.9	227.6	226.5	227.0
45°	160.3	163.8	168.4	170.7	173.6	181.2	185.2	189.9	193.9	196.3	195.7
47.5°	115.6	119.6	124.8	128.3	133.6	142.8	153.3	159.1	164.9	167.8	170.7
50°	83.6	87.7	94.1	99.3	102.8	115.6	126.6	134.1	140.5	144.6	147.5
52.5°	58.6	63.3	70.3	74.9	80.1	92.3	105.1	113.8	120.8	126.0	128.9
55°	40.6	45.9	52.3	56.9	62.7	75.5	87.7	97.0	104.5	109.2	112.7
57.5°	28.5	33.1	39.5	43.6	49.4	61.6	73.7	83.0	90.6	95.2	99.3
60°	19.2	23.8	30.2	34.3	38.9	51.1	62.1	72.0	79.0	83.6	87.7
62.5°	13.4	17.4	23.8	27.9	31.9	42.4	52.8	61.6	68.5	73.7	77.2
65°	10.5	13.9	19.2	22.6	26.7	35.4	44.1	51.7	58.6	63.9	66.2
67.5°	7.5	11.0	15.1	18.0	20.9	28.5	36.0	41.8	48.2	52.3	55.2
70°	5.2	7.5	11.0	13.4	15.7	21.5	27.3	32.5	37.2	40.1	42.4
72.5°	4.1	5.2	7.5	9.3	11.0	15.1	19.7	23.8	27.3	29.6	31.9
75°	2.3	3.5	5.2	6.4	7.5	10.5	13.4	16.3	18.6	20.3	21.5
77.5°	1.2	1.7	2.9	3.5	4.6	6.4	8.7	10.5	12.2	13.4	14.5
80°	1.2	1.2	1.7	1.7	2.3	3.5	4.6	5.8	7.0	8.1	8.7
82.5°	0.6	0.6	1.2	1.2	1.2	1.7	2.3	3.5	4.1	4.6	5.2
85°	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.7	2.3	2.9	2.9
87.5°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2	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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	502.3	502.3	502.3	502.3	502.3	502.3	502.3	502.3
2.5°	500.6	501.7	501.1	502.3	500.6	500.0	501.1	499.4
5°	494.2	494.7	494.2	494.2	493.0	491.8	493.0	491.3
7.5°	484.3	484.3	482.6	482.6	480.2	479.1	479.1	478.5
10°	476.2	474.4	472.7	473.3	469.8	468.6	468.0	467.5
12.5°	472.1	470.9	468.0	468.0	464.5	463.4	462.8	462.2
15°	467.5	465.1	462.8	462.2	459.3	458.2	457.6	456.4
17.5°	459.3	457.6	454.7	454.7	451.8	451.2	450.0	449.5
20°	450.6	448.3	446.0	446.0	442.5	442.5	440.7	441.3
22.5°	438.4	436.7	434.4	434.4	431.5	430.9	429.1	428.5
25°	423.9	421.6	419.8	419.3	416.9	415.8	415.2	414.0
27.5°	404.7	403.0	401.3	400.1	397.2	396.6	394.9	395.4
30°	380.9	379.8	379.2	378.0	374.5	373.4	373.4	371.6
32.5°	354.8	353.1	351.9	350.2	347.3	346.7	344.9	345.5
35°	322.9	320.5	318.8	319.4	315.9	315.3	314.2	314.7
37.5°	289.8	287.4	285.1	284.5	281.6	281.6	279.9	279.9
40°	255.5	253.2	252.0	252.0	248.5	249.1	247.4	246.8
42.5°	224.7	222.4	221.8	221.2	219.5	218.9	217.2	217.8
45°	195.7	195.1	195.1	193.9	192.2	191.6	192.2	192.2
47.5°	170.1	170.7	170.1	170.1	169.0	170.1	169.0	169.6
50°	148.7	149.8	149.8	149.8	149.2	149.8	149.8	150.4
52.5°	130.7	132.4	131.8	132.4	131.8	133.0	132.4	133.0
55°	115.0	116.1	116.7	117.3	117.3	117.3	117.3	117.3
57.5°	100.5	102.2	102.8	103.4	103.4	104.5	103.4	103.4
60°	88.8	90.6	91.2	91.7	91.7	92.3	91.2	91.7
62.5°	78.4	80.1	80.1	80.7	80.7	80.7	79.6	80.1
65°	67.9	68.5	69.1	69.1	68.5	68.5	67.9	68.5
67.5°	56.3	56.9	56.3	56.3	55.7	55.7	54.6	55.2
70°	43.6	43.6	44.1	43.6	43.0	43.6	43.0	42.4
72.5°	32.5	32.5	32.5	31.9	31.9	31.4	31.9	31.9
75°	22.1	22.1	22.6	22.6	22.6	22.6	22.1	22.1
77.5°	14.5	14.5	14.5	14.5	15.1	14.5	14.5	14.5
80°	9.3	9.3	9.9	9.9	9.3	9.3	9.3	9.3
82.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
85°	3.5	3.5	3.5	3.5	2.9	2.9	2.9	2.9
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.2	1.2
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)