

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: P252551

Luminaire Tested: **LD6B10D010 EU6B10209030 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252551
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 EU6B10209030 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 905.0 lumens
Efficiency: N/A
Efficacy: 90.0 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

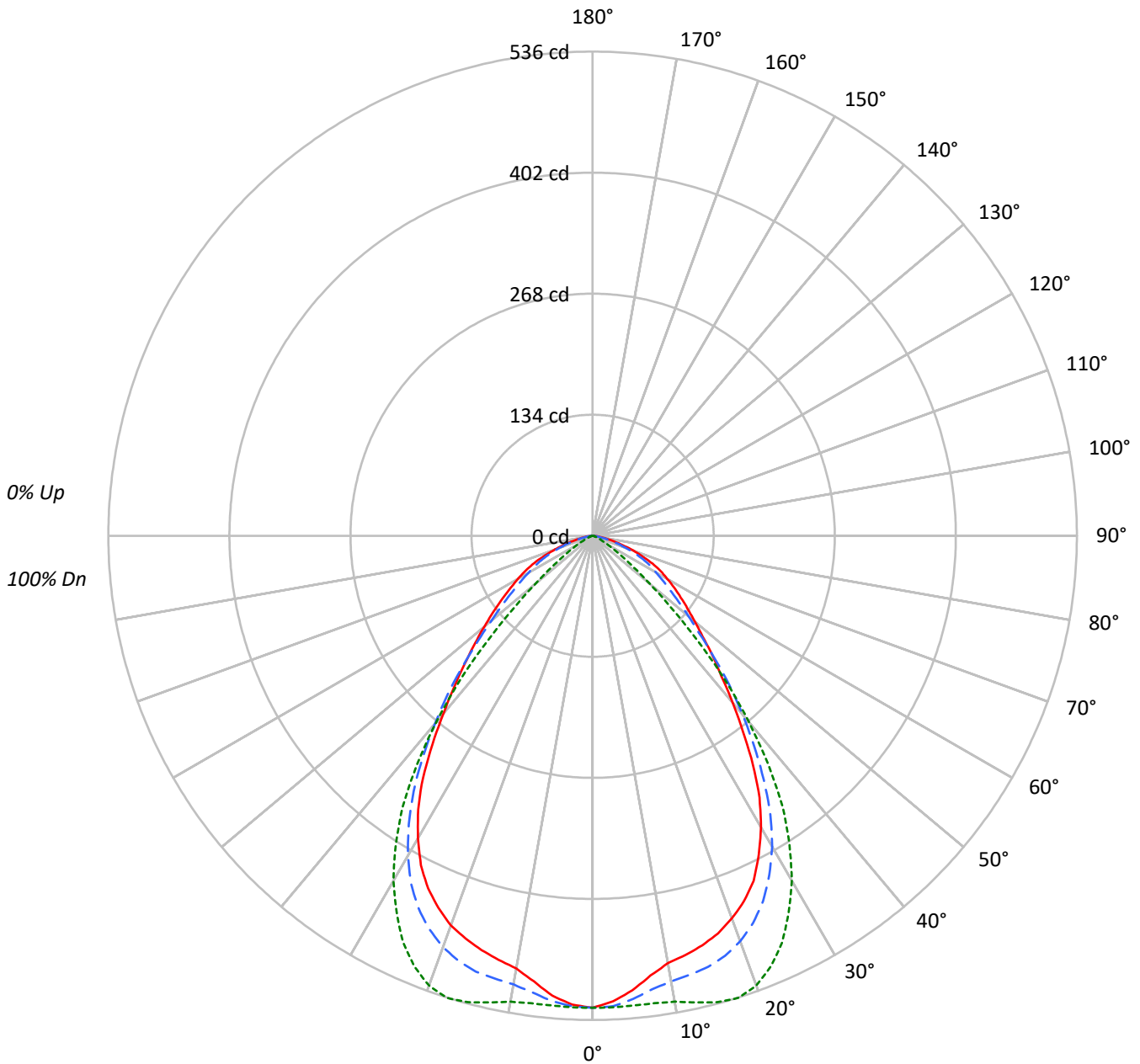
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	34088	34088	34088
5°	33072	34179	33465
10°	31812	34694	32216
15°	31697	36108	32069
20°	31284	36783	31874
25°	30349	35741	31004
30°	28077	33222	29124
35°	24634	29205	26075
40°	20525	22893	21862
45°	17281	15104	18444
50°	14961	8272	15874
55°	13535	4402	13877
60°	12448	2283	12448
65°	11285	1220	11007
70°	9099	687	8412
75°	6251	454	5798
80°	4095	225	3644
85°	2695	449	2246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	5.4
10°-20°	140.9	15.6
20°-30°	208.2	23.0
30°-40°	210.3	23.2
40°-50°	144.9	16.0
50°-60°	83.2	9.2
60°-70°	48.4	5.4
70°-80°	17.7	2.0
80°-90°	2.7	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°	397.8	44.0
0°-40°	608.0	67.2
0°-60°	836.2	92.4
0°-90°	905.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	905.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	522	522	522	522	522	
5°	505	515	522	517	511	47
15°	469	494	535	500	475	132
25°	422	446	496	456	431	192
35°	309	330	367	346	327	192
45°	187	190	164	202	200	146
55°	119	104	39	109	122	107
65°	73	62	8	61	71	72
75°	25	20	2	19	23	28
85°	4	2	1	2	3	5
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°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5
2.5°	515.9	516.5	517.1	516.5	517.1	519.5	517.7	518.9	518.9	519.5	521.3
5°	505.0	505.0	506.2	505.6	507.4	509.8	508.0	509.8	510.4	511.6	514.6
7.5°	491.1	491.1	491.7	491.7	494.1	496.5	495.3	497.7	500.2	502.6	506.2
10°	480.2	481.4	481.4	482.0	484.4	487.5	486.9	489.9	492.3	495.9	500.8
12.5°	475.4	476.0	476.0	477.2	479.6	482.6	482.0	485.1	488.7	492.9	497.7
15°	469.3	470.6	469.9	471.2	473.6	476.6	476.0	479.0	483.2	487.5	494.1
17.5°	461.5	462.1	462.7	462.7	465.1	467.5	467.5	470.6	475.4	480.2	487.5
20°	450.6	451.8	451.8	452.4	454.2	457.9	457.3	460.3	465.1	469.9	477.8
22.5°	437.9	438.5	438.5	439.1	442.2	444.0	444.6	447.0	451.2	456.7	463.9
25°	421.6	422.2	421.6	423.4	424.6	428.3	427.1	430.1	434.9	439.1	446.4
27.5°	398.1	399.3	399.3	399.9	402.9	405.9	405.9	408.9	413.2	416.2	423.4
30°	372.7	374.5	372.7	375.7	376.9	379.3	381.2	383.0	386.6	390.8	397.5
32.5°	343.7	343.1	343.7	344.9	348.5	350.3	351.6	353.4	357.0	360.6	366.1
35°	309.3	310.5	311.1	313.5	313.5	316.5	317.1	318.3	323.8	326.2	330.4
37.5°	273.0	274.2	274.8	276.0	278.5	279.7	281.5	283.3	286.9	291.2	293.6
40°	241.0	241.0	241.6	242.8	244.6	245.2	247.1	249.5	251.9	255.5	257.9
42.5°	210.8	211.4	210.8	212.0	213.8	216.2	215.6	218.7	219.3	221.7	223.5
45°	187.3	187.3	186.0	187.3	187.3	189.7	189.1	190.3	189.7	190.9	189.7
47.5°	164.9	165.5	164.9	165.5	165.5	165.5	166.1	164.9	165.5	163.7	160.1
50°	147.4	148.0	146.8	147.4	146.8	146.2	146.8	145.0	144.4	142.0	138.3
52.5°	132.3	131.7	131.1	131.1	131.1	130.5	129.9	128.1	126.2	123.8	119.6
55°	119.0	118.4	117.8	117.8	116.6	116.0	116.0	114.2	112.4	109.3	104.5
57.5°	106.9	106.3	105.7	105.7	105.1	103.9	103.9	102.1	99.7	96.0	91.8
60°	95.4	95.4	95.4	94.8	94.8	93.6	93.6	91.8	89.4	85.8	80.9
62.5°	85.2	84.6	84.6	84.6	84.6	84.0	83.4	82.2	79.7	76.1	71.9
65°	73.1	73.1	73.1	73.1	72.5	72.5	72.5	70.7	69.5	65.8	61.6
67.5°	59.8	59.8	59.8	59.8	59.2	59.8	59.8	58.6	57.4	53.8	50.1
70°	47.7	47.1	46.5	47.1	46.5	46.5	47.1	45.9	45.3	42.3	38.7
72.5°	35.0	35.6	35.0	35.0	35.0	34.4	35.0	34.4	33.2	30.8	28.4
75°	24.8	25.4	25.4	24.8	24.8	24.8	24.2	24.2	23.0	21.1	19.9
77.5°	16.9	16.9	16.9	16.9	16.3	16.3	16.3	15.7	15.1	13.9	12.7
80°	10.9	10.9	10.9	10.9	10.3	10.3	10.3	9.7	9.7	8.5	7.2
82.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.0	6.0	5.4	4.8	4.2
85°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.0	3.0	2.4	1.8
87.5°	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8	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°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5
2.5°	520.1	520.7	520.7	520.7	522.5	523.1	521.3	519.5	523.1	522.5	523.7
5°	514.0	515.9	517.1	517.7	519.5	520.7	518.9	518.3	521.3	521.9	522.5
7.5°	506.8	509.8	512.8	514.0	516.5	517.7	517.1	517.1	520.7	521.9	521.9
10°	502.0	506.2	509.8	512.8	515.9	517.7	517.7	518.3	522.5	523.7	524.9
12.5°	500.8	506.2	511.0	515.3	517.7	520.7	521.3	523.1	527.3	529.1	529.1
15°	497.7	505.0	511.0	516.5	520.1	523.7	524.9	528.5	533.4	534.6	535.8
17.5°	492.3	499.5	506.8	513.4	518.3	521.3	524.9	528.5	534.6	536.4	537.0
20°	482.6	491.1	498.3	505.0	509.8	514.0	517.7	521.9	527.3	529.8	530.4
22.5°	468.1	476.6	483.8	491.1	495.9	499.5	503.2	508.0	513.4	515.9	515.9
25°	450.6	458.5	466.3	471.8	476.6	480.8	482.6	488.1	493.5	496.5	496.5
27.5°	428.3	435.5	442.8	448.8	451.8	455.5	458.5	463.3	467.5	469.9	472.4
30°	399.9	407.1	413.8	419.8	423.4	427.1	430.1	433.7	437.9	441.0	441.6
32.5°	369.1	375.1	381.8	387.8	391.4	392.6	395.7	399.3	402.9	405.3	405.9
35°	335.2	339.5	343.7	349.1	352.8	352.8	355.8	358.2	361.2	366.7	365.4
37.5°	295.4	301.4	304.4	306.3	308.7	311.1	311.7	314.7	318.3	319.5	321.4
40°	257.9	259.7	261.6	261.6	264.0	264.0	264.0	264.6	268.2	268.8	271.2
42.5°	220.5	220.5	218.7	216.9	217.5	216.9	213.8	213.8	215.6	218.1	218.1
45°	185.4	181.2	175.8	171.5	168.5	167.3	163.7	163.7	163.1	163.7	166.1
47.5°	155.8	148.6	139.5	131.1	128.1	125.6	120.2	117.8	116.6	117.2	118.4
50°	131.1	123.2	113.0	102.7	97.3	94.2	87.6	83.4	82.8	81.5	84.0
52.5°	113.0	103.3	92.4	80.3	74.9	70.1	62.8	59.2	56.8	56.8	57.4
55°	97.3	87.0	74.9	62.8	57.4	53.8	46.5	41.7	39.3	38.7	40.5
57.5°	84.0	74.3	62.2	50.1	44.7	40.5	33.2	29.0	27.2	26.0	26.6
60°	73.7	64.0	51.9	40.5	35.6	30.8	24.8	19.9	17.5	17.5	18.1
62.5°	64.0	55.0	44.1	33.2	29.0	24.8	18.1	13.9	12.1	11.5	12.1
65°	54.4	45.9	36.8	27.8	23.6	19.9	14.5	10.9	8.5	7.9	8.5
67.5°	44.1	37.5	29.6	22.3	18.7	15.7	10.9	7.9	6.0	5.4	6.0
70°	34.4	28.4	22.3	16.3	13.9	11.5	7.9	6.0	4.2	3.6	4.2
72.5°	24.8	20.5	15.7	11.5	9.7	7.9	5.4	4.2	3.0	2.4	3.0
75°	16.9	13.9	10.3	7.2	6.0	5.4	3.6	2.4	1.8	1.8	1.8
77.5°	10.9	8.5	6.6	4.8	3.6	3.0	1.8	1.2	1.2	1.2	1.2
80°	6.0	4.8	3.6	2.4	1.8	1.8	1.2	1.2	0.6	0.6	0.6
82.5°	3.6	2.4	1.8	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6
85°	1.8	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°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5
2.5°	521.3	521.9	520.1	522.5	520.7	523.1	523.1	520.7	521.3	520.1	522.5
5°	520.1	520.1	518.9	520.7	518.3	520.7	520.1	515.9	517.1	514.6	517.1
7.5°	520.1	518.9	517.1	518.9	515.9	517.7	515.3	511.0	509.8	506.8	506.8
10°	521.9	520.1	517.7	518.3	515.3	515.9	512.2	506.2	504.4	500.8	499.5
12.5°	526.1	524.3	520.7	521.9	517.7	517.7	512.8	505.6	502.0	497.1	495.9
15°	532.2	529.1	524.9	525.5	521.3	518.9	512.8	504.4	499.5	492.9	491.1
17.5°	533.4	530.4	524.9	524.9	519.5	516.5	509.2	499.5	493.5	486.9	483.2
20°	526.7	523.7	517.7	517.1	512.2	508.0	500.2	490.5	484.4	477.2	474.2
22.5°	512.8	509.2	503.8	503.2	498.3	495.9	487.5	477.8	471.8	464.5	462.1
25°	492.3	490.5	485.1	484.4	480.2	477.2	469.9	460.9	455.5	448.2	445.8
27.5°	468.1	466.3	460.9	460.9	456.1	454.2	447.6	439.1	434.9	428.3	425.2
30°	439.1	436.7	433.7	433.1	428.9	427.1	421.0	413.2	408.9	403.5	402.3
32.5°	404.7	402.9	401.1	400.5	396.3	394.4	390.2	382.4	378.7	373.9	372.1
35°	364.8	363.6	361.8	361.2	359.4	357.6	353.4	347.3	345.5	341.9	340.1
37.5°	318.9	320.1	318.9	318.9	317.1	317.7	314.1	310.5	308.7	306.3	305.0
40°	269.4	271.8	273.6	273.6	273.0	275.4	274.8	271.8	271.2	270.0	269.4
42.5°	219.3	220.5	224.1	226.5	225.9	232.0	232.6	235.0	236.8	235.6	236.2
45°	166.7	170.3	175.2	177.6	180.6	188.5	192.7	197.5	201.8	204.2	203.6
47.5°	120.2	124.4	129.9	133.5	138.9	148.6	159.5	165.5	171.5	174.6	177.6
50°	87.0	91.2	97.9	103.3	106.9	120.2	131.7	139.5	146.2	150.4	153.4
52.5°	61.0	65.8	73.1	77.9	83.4	96.0	109.3	118.4	125.6	131.1	134.1
55°	42.3	47.7	54.4	59.2	65.2	78.5	91.2	100.9	108.7	113.6	117.2
57.5°	29.6	34.4	41.1	45.3	51.3	64.0	76.7	86.4	94.2	99.1	103.3
60°	19.9	24.8	31.4	35.6	40.5	53.2	64.6	74.9	82.2	87.0	91.2
62.5°	13.9	18.1	24.8	29.0	33.2	44.1	55.0	64.0	71.3	76.7	80.3
65°	10.9	14.5	19.9	23.6	27.8	36.8	45.9	53.8	61.0	66.4	68.9
67.5°	7.9	11.5	15.7	18.7	21.7	29.6	37.5	43.5	50.1	54.4	57.4
70°	5.4	7.9	11.5	13.9	16.3	22.3	28.4	33.8	38.7	41.7	44.1
72.5°	4.2	5.4	7.9	9.7	11.5	15.7	20.5	24.8	28.4	30.8	33.2
75°	2.4	3.6	5.4	6.6	7.9	10.9	13.9	16.9	19.3	21.1	22.3
77.5°	1.2	1.8	3.0	3.6	4.8	6.6	9.1	10.9	12.7	13.9	15.1
80°	1.2	1.2	1.8	1.8	2.4	3.6	4.8	6.0	7.2	8.5	9.1
82.5°	0.6	0.6	1.2	1.2	1.2	1.8	2.4	3.6	4.2	4.8	5.4
85°	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.8	2.4	3.0	3.0
87.5°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2	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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5
2.5°	520.7	521.9	521.3	522.5	520.7	520.1	521.3	519.5
5°	514.0	514.6	514.0	514.0	512.8	511.6	512.8	511.0
7.5°	503.8	503.8	502.0	502.0	499.5	498.3	498.3	497.7
10°	495.3	493.5	491.7	492.3	488.7	487.5	486.9	486.3
12.5°	491.1	489.9	486.9	486.9	483.2	482.0	481.4	480.8
15°	486.3	483.8	481.4	480.8	477.8	476.6	476.0	474.8
17.5°	477.8	476.0	473.0	473.0	469.9	469.3	468.1	467.5
20°	468.7	466.3	463.9	463.9	460.3	460.3	458.5	459.1
22.5°	456.1	454.2	451.8	451.8	448.8	448.2	446.4	445.8
25°	441.0	438.5	436.7	436.1	433.7	432.5	431.9	430.7
27.5°	421.0	419.2	417.4	416.2	413.2	412.6	410.8	411.4
30°	396.3	395.0	394.4	393.2	389.6	388.4	388.4	386.6
32.5°	369.1	367.3	366.1	364.2	361.2	360.6	358.8	359.4
35°	335.9	333.4	331.6	332.2	328.6	328.0	326.8	327.4
37.5°	301.4	299.0	296.6	296.0	293.0	293.0	291.2	291.2
40°	265.8	263.4	262.2	262.2	258.5	259.1	257.3	256.7
42.5°	233.8	231.4	230.7	230.1	228.3	227.7	225.9	226.5
45°	203.6	203.0	203.0	201.8	199.9	199.3	199.9	199.9
47.5°	177.0	177.6	177.0	177.0	175.8	177.0	175.8	176.4
50°	154.6	155.8	155.8	155.8	155.2	155.8	155.8	156.4
52.5°	135.9	137.7	137.1	137.7	137.1	138.3	137.7	138.3
55°	119.6	120.8	121.4	122.0	122.0	122.0	122.0	122.0
57.5°	104.5	106.3	106.9	107.5	107.5	108.7	107.5	107.5
60°	92.4	94.2	94.8	95.4	95.4	96.0	94.8	95.4
62.5°	81.5	83.4	83.4	84.0	84.0	84.0	82.8	83.4
65°	70.7	71.3	71.9	71.9	71.3	71.3	70.7	71.3
67.5°	58.6	59.2	58.6	58.6	58.0	58.0	56.8	57.4
70°	45.3	45.3	45.9	45.3	44.7	45.3	44.7	44.1
72.5°	33.8	33.8	33.8	33.2	33.2	32.6	33.2	33.2
75°	23.0	23.0	23.6	23.6	23.6	23.6	23.0	23.0
77.5°	15.1	15.1	15.1	15.1	15.7	15.1	15.1	15.1
80°	9.7	9.7	10.3	10.3	9.7	9.7	9.7	9.7
82.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
85°	3.6	3.6	3.6	3.6	3.0	3.0	3.0	3.0
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	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)