

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: P252346

Luminaire Tested: **LD6B10D010 EU6B10209050 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B10D010 EU6B10209050 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 838.0 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

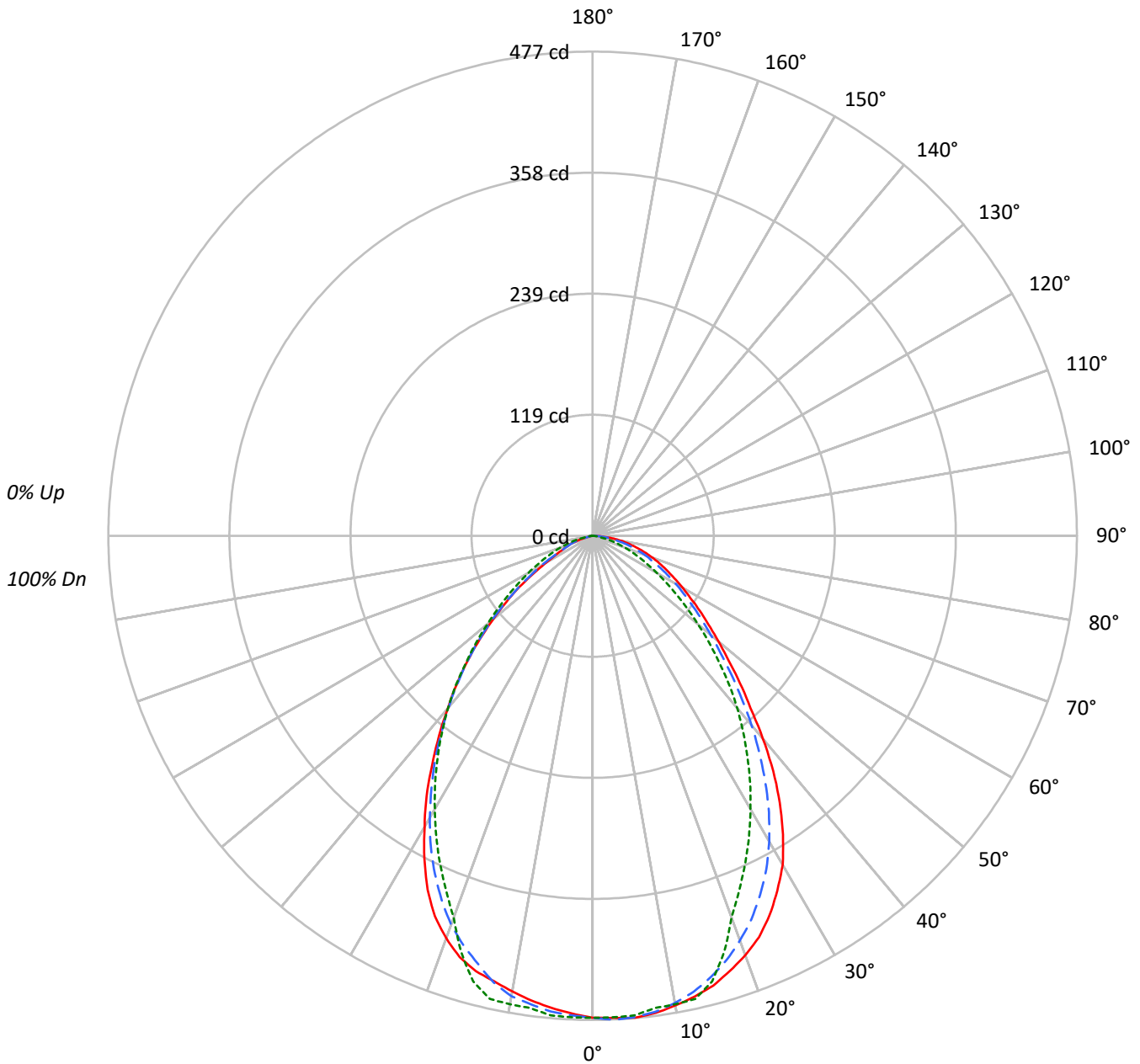
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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				100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77				77
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68				68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60				60
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54				54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48				48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44				44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40				40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36				36
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	30976	30976	30976
5°	31219	31055	30571
10°	31129	31050	30189
15°	30988	30698	29989
20°	30527	27785	29285
25°	29694	25612	27700
30°	28197	23414	24943
35°	25590	21169	21950
40°	22211	18856	18907
45°	18942	16211	16045
50°	16402	13702	12951
55°	14662	11431	10032
60°	13361	9499	6759
65°	12473	7811	5048
70°	11884	6352	4235
75°	11192	4512	1386
80°	10670	2329	451
85°	8758	1347	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	5.4
10°-20°	125.4	15.0
20°-30°	173.1	20.7
30°-40°	176.2	21.0
40°-50°	141.6	16.9
50°-60°	94.1	11.2
60°-70°	53.6	6.4
70°-80°	24.1	2.9
80°-90°	5.1	0.6
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°	343.4	41.0
0°-40°	519.5	62.0
0°-60°	755.2	90.1
0°-90°	838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	838.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	475	475	475	475	475	
5°	477	476	474	470	467	45
15°	459	450	454	437	444	129
25°	412	390	356	368	385	189
35°	321	297	266	271	276	200
45°	205	193	176	174	174	159
55°	129	120	100	89	88	116
65°	81	72	51	33	33	80
75°	44	37	18	7	6	47
85°	12	8	2	1	0	14
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°	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8
2.5°	475.4	477.9	477.3	476.7	477.3	476.7	475.4	475.4	474.2	474.2	477.3
5°	476.7	477.9	477.3	476.7	476.7	477.3	474.8	474.8	473.6	473.0	476.1
7.5°	474.2	476.1	474.8	474.8	474.2	474.8	472.4	472.4	470.5	469.9	473.0
10°	469.9	472.4	471.1	471.1	471.1	469.9	468.7	468.0	466.2	465.6	467.4
12.5°	465.0	466.8	466.2	465.0	465.0	465.0	462.5	461.9	459.4	458.2	460.0
15°	458.8	460.0	459.4	458.8	457.6	457.6	455.1	453.9	451.4	448.9	450.2
17.5°	449.5	451.4	450.2	449.5	447.7	447.7	445.2	444.0	440.3	437.8	438.4
20°	439.7	440.3	439.7	438.4	436.6	436.0	433.5	431.0	428.0	424.9	424.3
22.5°	428.0	428.6	426.7	425.5	423.6	423.0	419.9	418.1	413.2	409.5	408.8
25°	412.5	413.2	413.2	410.1	408.8	407.6	404.5	401.4	397.1	392.2	390.3
27.5°	394.0	395.9	394.7	391.6	389.1	388.5	385.4	382.9	377.4	373.1	370.6
30°	374.3	373.7	373.1	371.2	367.5	366.9	363.8	360.7	356.4	350.9	347.8
32.5°	349.0	349.0	348.4	346.6	342.9	341.6	339.2	335.5	330.5	326.2	323.1
35°	321.3	321.9	321.3	317.6	315.1	313.9	312.6	308.3	304.0	299.1	296.6
37.5°	292.3	290.4	291.1	288.0	284.9	286.1	282.4	280.6	275.6	271.9	269.5
40°	260.8	262.1	259.6	258.4	256.5	254.7	254.7	251.6	249.1	244.8	243.6
42.5°	230.0	231.9	231.2	230.0	227.5	228.2	225.1	223.8	220.8	218.9	217.1
45°	205.3	205.3	205.3	204.1	203.5	202.3	200.4	198.6	196.7	194.2	193.0
47.5°	181.3	181.3	181.9	180.7	179.4	178.8	177.6	177.6	174.5	172.0	170.8
50°	161.6	161.6	161.6	160.3	159.1	159.1	157.9	156.6	154.8	152.9	151.7
52.5°	143.7	143.7	143.7	142.4	141.8	141.2	140.6	140.0	137.5	136.3	135.0
55°	128.9	128.3	128.3	127.6	126.4	126.4	125.8	124.6	122.7	120.9	120.2
57.5°	114.1	114.7	114.1	114.1	112.8	112.8	111.6	111.0	109.1	107.9	106.7
60°	102.4	102.4	102.4	101.7	100.5	101.1	99.9	99.3	97.4	95.6	94.3
62.5°	90.6	91.3	91.3	90.6	89.4	89.4	88.8	88.2	86.3	84.5	82.6
65°	80.8	80.8	80.8	80.2	79.5	79.5	78.9	78.3	76.5	74.0	72.1
67.5°	71.5	70.9	70.9	70.9	70.3	69.7	69.1	68.4	66.6	64.7	62.3
70°	62.3	62.3	62.3	61.7	60.4	61.0	60.4	59.8	58.0	56.1	54.3
72.5°	53.6	53.6	53.0	52.4	52.4	51.8	51.8	51.2	49.3	46.9	45.0
75°	44.4	44.4	44.4	44.4	43.2	43.8	42.5	41.9	40.7	38.8	37.0
77.5°	36.4	36.4	36.4	35.8	35.1	35.1	34.5	33.9	32.1	30.8	28.4
80°	28.4	28.4	28.4	28.4	27.7	27.1	26.5	25.9	24.7	22.8	21.0
82.5°	21.0	21.0	20.3	20.3	20.3	19.7	19.1	18.5	17.3	16.0	14.8
85°	11.7	12.3	12.3	11.1	11.7	11.1	11.1	9.9	9.9	8.6	8.0
87.5°	4.3	3.7	3.7	3.7	3.7	3.7	3.7	3.1	3.1	3.1	2.5
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°	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8
2.5°	474.8	474.2	476.7	476.7	473.0	474.8	475.4	474.2	474.2	474.8	473.0
5°	473.6	472.4	474.8	475.4	471.7	473.6	474.2	473.0	473.6	474.2	471.7
7.5°	469.3	469.3	471.1	471.7	468.0	469.9	469.9	468.7	469.3	469.3	467.4
10°	465.0	463.1	465.0	465.0	461.9	462.5	463.7	463.1	465.6	468.7	468.7
12.5°	456.9	455.1	458.2	458.2	456.3	458.8	461.9	463.7	466.2	467.4	463.7
15°	447.1	447.7	453.2	457.6	455.7	459.4	462.5	461.3	458.2	454.5	448.9
17.5°	434.1	432.3	437.2	439.7	437.2	438.4	440.9	438.4	433.5	430.4	423.0
20°	419.3	414.4	414.4	413.2	408.8	408.8	408.2	403.9	402.1	400.2	397.1
22.5°	402.7	397.1	395.3	391.6	387.9	387.3	385.4	381.1	378.6	377.4	373.7
25°	383.6	378.6	375.5	371.8	366.3	365.1	363.2	358.9	357.7	355.8	352.7
27.5°	363.8	357.7	353.3	349.6	344.7	344.1	340.4	337.3	334.8	333.6	331.1
30°	341.0	334.2	331.1	326.2	322.5	321.3	318.2	313.9	312.0	310.8	308.9
32.5°	315.7	310.2	307.1	302.8	297.8	298.5	294.8	291.1	289.8	288.6	286.7
35°	291.1	285.5	281.8	278.1	275.0	273.8	271.3	268.2	266.4	265.8	264.5
37.5°	263.9	259.6	256.5	252.8	250.4	249.1	247.9	244.8	243.6	243.6	241.1
40°	237.4	233.7	231.2	229.4	226.3	225.7	224.5	222.6	222.0	221.4	219.5
42.5°	213.4	208.4	206.6	205.3	203.5	202.3	201.6	200.4	199.8	199.2	197.3
45°	190.5	186.2	184.4	183.1	181.3	180.7	180.1	178.2	177.0	175.7	175.1
47.5°	168.3	165.3	164.6	161.6	160.3	159.1	157.9	156.6	156.0	155.4	152.9
50°	149.2	147.4	144.3	142.4	141.2	140.6	138.1	136.3	135.7	135.0	133.2
52.5°	132.0	129.5	127.6	124.6	123.9	122.7	121.5	119.0	117.8	117.2	115.3
55°	116.5	114.7	112.2	109.8	107.9	107.3	105.4	103.0	101.7	100.5	99.3
57.5°	103.6	100.5	98.0	95.6	94.3	92.5	90.6	89.4	87.6	85.7	83.9
60°	91.3	88.8	85.7	83.2	82.0	80.8	78.3	76.5	74.6	72.8	70.9
62.5°	79.5	77.1	74.0	71.5	70.3	69.1	66.6	64.7	62.9	61.0	58.6
65°	69.1	66.6	64.1	61.7	60.4	59.2	56.7	54.3	52.4	50.6	48.1
67.5°	60.4	57.3	54.9	52.4	51.2	49.9	47.5	45.6	43.2	41.3	38.8
70°	51.2	48.7	46.9	44.4	43.2	41.9	39.5	37.0	35.1	33.3	30.8
72.5°	43.2	40.1	38.2	35.8	34.5	33.9	31.4	29.6	27.7	25.3	23.4
75°	34.5	32.1	29.6	27.7	26.5	25.9	23.4	21.6	19.7	17.9	16.0
77.5°	26.5	24.7	22.2	20.3	19.1	18.5	16.0	14.2	12.3	11.1	9.2
80°	19.7	17.3	16.0	14.2	13.6	12.3	11.1	9.2	8.0	6.2	4.9
82.5°	13.6	11.7	10.5	9.2	8.6	8.0	6.8	5.5	4.3	3.7	3.1
85°	7.4	6.2	5.5	4.9	4.3	4.3	3.7	3.1	2.5	1.8	1.2
87.5°	2.5	1.8	1.8	1.8	1.8	1.2	1.2	1.2	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8
2.5°	474.2	474.2	474.2	473.6	473.6	473.6	473.0	475.4	473.0	472.4	474.2
5°	473.6	472.4	472.4	472.4	472.4	471.7	471.1	472.4	470.5	469.9	469.9
7.5°	469.9	469.3	469.3	468.7	468.0	467.4	466.8	467.4	465.6	465.0	465.0
10°	470.5	469.3	469.3	467.4	466.2	464.3	462.5	463.1	460.6	458.8	458.8
12.5°	463.1	460.0	458.2	456.3	455.1	454.5	452.0	453.2	450.8	450.2	450.2
15°	446.5	442.8	439.7	438.4	438.4	437.2	435.4	437.8	436.6	437.2	440.3
17.5°	420.6	418.7	416.9	416.2	416.9	418.1	419.3	423.0	423.0	424.9	428.0
20°	397.7	396.5	397.7	397.7	398.4	400.8	403.3	406.4	407.6	409.5	413.8
22.5°	375.5	375.5	376.8	378.6	378.0	382.3	382.9	388.5	388.5	392.2	395.9
25°	354.0	354.0	355.2	355.8	357.0	359.5	362.0	366.3	367.5	371.2	374.3
27.5°	333.0	332.4	332.4	333.0	334.2	337.3	338.5	343.5	345.3	347.8	350.9
30°	309.6	308.9	310.2	311.4	310.8	313.9	315.7	319.4	320.7	323.1	325.6
32.5°	287.4	287.4	287.4	288.6	288.6	291.1	291.1	295.4	295.4	297.2	299.7
35°	264.5	264.5	265.2	265.8	266.4	267.0	267.6	270.1	270.7	271.3	272.6
37.5°	243.0	242.3	243.0	243.0	241.7	244.2	244.2	246.7	244.8	246.7	247.3
40°	220.8	220.8	220.1	220.1	220.1	221.4	220.1	222.0	220.8	222.0	221.4
42.5°	197.9	197.9	196.7	197.9	197.3	197.3	197.3	198.6	196.7	197.9	198.6
45°	175.1	174.5	174.5	173.9	173.9	173.9	174.5	174.5	173.9	175.1	175.1
47.5°	152.9	152.3	152.3	152.3	152.3	152.9	151.1	152.3	151.1	151.1	151.1
50°	133.8	133.2	132.6	132.0	131.3	131.3	130.7	130.7	129.5	128.9	128.3
52.5°	115.3	114.7	113.5	113.5	112.8	112.2	110.4	110.4	108.5	107.9	107.9
55°	98.7	96.8	96.2	95.0	95.0	93.7	92.5	91.3	89.4	88.2	88.2
57.5°	83.2	81.4	80.2	79.5	78.9	77.7	75.2	74.6	72.1	71.5	70.9
60°	69.7	67.8	66.0	64.7	64.1	62.3	59.8	58.6	57.3	55.5	53.6
62.5°	56.7	54.9	52.4	51.8	50.6	48.7	46.9	45.0	43.8	41.9	40.7
65°	45.6	43.8	41.9	40.7	39.5	37.6	35.8	33.9	32.7	32.1	31.4
67.5°	37.0	34.5	32.7	32.1	30.8	29.6	27.7	27.1	25.9	25.9	25.9
70°	29.0	27.1	25.3	24.7	24.0	22.8	21.6	21.6	21.6	21.6	21.6
72.5°	21.6	20.3	18.5	17.9	17.3	16.6	15.4	16.0	15.4	15.4	15.4
75°	13.6	12.3	11.1	10.5	9.9	9.2	8.6	8.0	7.4	6.8	6.8
77.5°	7.4	6.2	5.5	4.9	4.9	4.3	3.7	3.7	3.1	3.1	3.1
80°	4.3	3.7	3.1	2.5	2.5	1.8	1.8	1.8	1.8	1.2	1.2
82.5°	2.5	1.8	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6
85°	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0
87.5°	0.6	0.6	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°	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8
2.5°	471.1	473.0	471.1	473.0	473.0	473.0	473.0	471.1
5°	468.0	469.3	467.4	468.7	469.3	468.7	468.7	466.8
7.5°	462.5	463.7	461.9	463.7	464.3	463.7	463.1	461.9
10°	456.9	457.6	455.7	456.9	458.2	458.2	457.6	455.7
12.5°	448.3	450.2	448.3	449.5	450.8	451.4	451.4	449.5
15°	438.4	441.5	440.3	442.1	444.0	444.6	444.6	444.0
17.5°	428.6	431.7	429.8	432.9	434.7	436.0	436.6	435.4
20°	414.4	418.1	416.9	419.3	421.8	423.6	423.6	421.8
22.5°	395.9	400.8	400.2	402.1	405.1	405.8	407.0	405.8
25°	375.5	379.2	378.6	380.5	384.2	384.2	384.8	384.8
27.5°	352.1	355.8	355.2	356.4	358.9	359.5	360.1	358.9
30°	326.8	328.7	328.7	330.5	332.4	333.0	333.0	331.1
32.5°	299.1	301.5	302.8	302.2	304.0	305.2	304.6	304.6
35°	273.8	274.4	275.0	275.6	276.3	277.5	276.3	275.6
37.5°	246.7	248.5	247.3	248.5	249.7	249.1	248.5	248.5
40°	222.0	222.6	221.4	222.6	223.2	223.2	223.2	222.0
42.5°	197.3	198.6	197.3	198.6	198.6	198.6	198.6	197.9
45°	172.7	173.9	173.9	174.5	174.5	173.9	173.9	173.9
47.5°	149.8	151.1	149.8	151.1	151.7	150.5	150.5	150.5
50°	128.3	127.6	127.6	128.3	128.3	128.3	128.3	127.6
52.5°	106.1	106.7	106.7	106.7	107.3	106.7	107.3	107.3
55°	86.9	86.9	86.9	87.6	86.9	86.9	87.6	88.2
57.5°	69.7	69.1	68.4	68.4	69.1	68.4	68.4	68.4
60°	53.6	53.0	52.4	52.4	52.4	52.4	52.4	51.8
62.5°	40.1	40.1	40.1	40.7	40.7	40.7	40.7	41.3
65°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.7
67.5°	25.9	25.9	25.9	26.5	26.5	26.5	26.5	26.5
70°	21.6	21.6	22.2	21.6	22.2	22.2	22.2	22.2
72.5°	14.8	14.8	14.8	14.8	14.8	14.2	14.8	14.2
75°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	5.5
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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)