

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: P252337

Luminaire Tested: **LD6B10D010 EU6B10208030 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252337
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 EU6B10208030 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 961.0 lumens
Efficiency: N/A
Efficacy: 95.6 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

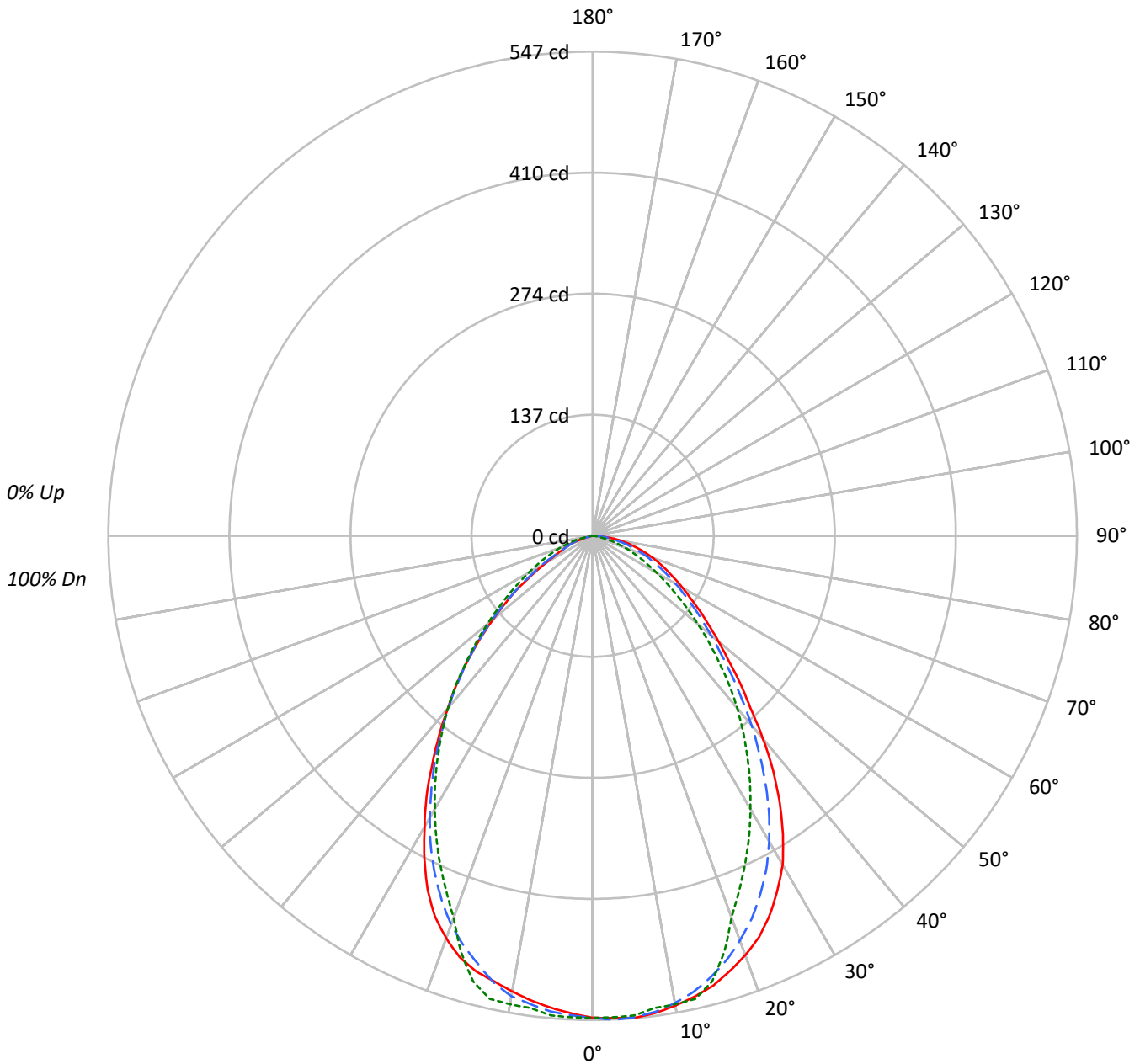
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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°	35524	35524	35524
5°	35797	35613	35057
10°	35701	35601	34621
15°	35534	35203	34392
20°	35005	31860	33582
25°	34056	29370	31767
30°	32333	26849	28604
35°	29341	24276	25175
40°	25473	21624	21683
45°	21728	18591	18397
50°	18807	15722	14859
55°	16811	13115	11499
60°	15318	10882	7751
65°	14295	8954	5789
70°	13620	7287	4864
75°	12830	5167	1613
80°	12210	2668	526
85°	10031	1572	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.4	5.4
10°-20°	143.8	15.0
20°-30°	198.5	20.7
30°-40°	202.0	21.0
40°-50°	162.3	16.9
50°-60°	107.9	11.2
60°-70°	61.5	6.4
70°-80°	27.6	2.9
80°-90°	5.8	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°	393.7	41.0
0°-40°	595.7	62.0
0°-60°	866.0	90.1
0°-90°	961.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	961.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	544	544	544	544	544	
5°	547	546	544	540	535	52
15°	526	516	521	501	509	148
25°	473	448	408	422	441	217
35°	368	340	305	310	316	229
45°	236	221	202	199	199	183
55°	148	138	115	102	101	133
65°	93	83	58	38	38	92
75°	51	42	20	8	6	54
85°	13	9	2	1	0	16
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°	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5
2.5°	545.2	548.0	547.3	546.6	547.3	546.6	545.2	545.2	543.8	543.8	547.3
5°	546.6	548.0	547.3	546.6	546.6	547.3	544.5	544.5	543.1	542.4	545.9
7.5°	543.8	545.9	544.5	544.5	543.8	544.5	541.7	541.7	539.6	538.9	542.4
10°	538.9	541.7	540.3	540.3	540.3	538.9	537.4	536.7	534.6	533.9	536.0
12.5°	533.2	535.3	534.6	533.2	533.2	533.2	530.4	529.7	526.8	525.4	527.5
15°	526.1	527.5	526.8	526.1	524.7	524.7	521.9	520.5	517.6	514.8	516.2
17.5°	515.5	517.6	516.2	515.5	513.4	513.4	510.6	509.2	504.9	502.1	502.8
20°	504.2	504.9	504.2	502.8	500.7	500.0	497.1	494.3	490.8	487.2	486.5
22.5°	490.8	491.5	489.4	487.9	485.8	485.1	481.6	479.5	473.8	469.6	468.8
25°	473.1	473.8	473.8	470.3	468.8	467.4	463.9	460.4	455.4	449.8	447.6
27.5°	451.9	454.0	452.6	449.0	446.2	445.5	442.0	439.1	432.8	427.8	425.0
30°	429.2	428.5	427.8	425.7	421.5	420.8	417.2	413.7	408.7	402.4	398.8
32.5°	400.3	400.3	399.5	397.4	393.2	391.8	388.9	384.7	379.0	374.1	370.6
35°	368.4	369.1	368.4	364.2	361.4	359.9	358.5	353.6	348.6	343.0	340.1
37.5°	335.2	333.1	333.8	330.2	326.7	328.1	323.9	321.8	316.1	311.9	309.0
40°	299.1	300.5	297.7	296.3	294.2	292.1	292.1	288.5	285.7	280.7	279.3
42.5°	263.8	265.9	265.2	263.8	260.9	261.6	258.1	256.7	253.2	251.0	248.9
45°	235.5	235.5	235.5	234.1	233.4	231.9	229.8	227.7	225.6	222.8	221.3
47.5°	207.9	207.9	208.6	207.2	205.8	205.1	203.7	203.7	200.1	197.3	195.9
50°	185.3	185.3	185.3	183.9	182.4	182.4	181.0	179.6	177.5	175.4	174.0
52.5°	164.8	164.8	164.8	163.4	162.6	161.9	161.2	160.5	157.7	156.3	154.9
55°	147.8	147.1	147.1	146.4	145.0	145.0	144.3	142.8	140.7	138.6	137.9
57.5°	130.8	131.5	130.8	130.8	129.4	129.4	128.0	127.3	125.2	123.8	122.3
60°	117.4	117.4	117.4	116.7	115.3	116.0	114.6	113.9	111.7	109.6	108.2
62.5°	104.0	104.7	104.7	104.0	102.5	102.5	101.8	101.1	99.0	96.9	94.8
65°	92.6	92.6	92.6	91.9	91.2	91.2	90.5	89.8	87.7	84.9	82.7
67.5°	82.0	81.3	81.3	81.3	80.6	79.9	79.2	78.5	76.4	74.3	71.4
70°	71.4	71.4	71.4	70.7	69.3	70.0	69.3	68.6	66.5	64.4	62.2
72.5°	61.5	61.5	60.8	60.1	60.1	59.4	59.4	58.7	56.6	53.7	51.6
75°	50.9	50.9	50.9	50.9	49.5	50.2	48.8	48.1	46.7	44.6	42.4
77.5°	41.7	41.7	41.7	41.0	40.3	40.3	39.6	38.9	36.8	35.4	32.5
80°	32.5	32.5	32.5	32.5	31.8	31.1	30.4	29.7	28.3	26.2	24.0
82.5°	24.0	24.0	23.3	23.3	23.3	22.6	21.9	21.2	19.8	18.4	17.0
85°	13.4	14.1	14.1	12.7	13.4	12.7	12.7	11.3	11.3	9.9	9.2
87.5°	5.0	4.2	4.2	4.2	4.2	4.2	4.2	3.5	3.5	3.5	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5
2.5°	544.5	543.8	546.6	546.6	542.4	544.5	545.2	543.8	543.8	544.5	542.4
5°	543.1	541.7	544.5	545.2	541.0	543.1	543.8	542.4	543.1	543.8	541.0
7.5°	538.1	538.1	540.3	541.0	536.7	538.9	538.9	537.4	538.1	538.1	536.0
10°	533.2	531.1	533.2	533.2	529.7	530.4	531.8	531.1	533.9	537.4	537.4
12.5°	524.0	521.9	525.4	525.4	523.3	526.1	529.7	531.8	534.6	536.0	531.8
15°	512.7	513.4	519.8	524.7	522.6	526.8	530.4	529.0	525.4	521.2	514.8
17.5°	497.8	495.7	501.4	504.2	501.4	502.8	505.6	502.8	497.1	493.6	485.1
20°	480.9	475.2	475.2	473.8	468.8	468.8	468.1	463.2	461.1	458.9	455.4
22.5°	461.8	455.4	453.3	449.0	444.8	444.1	442.0	437.0	434.2	432.8	428.5
25°	439.9	434.2	430.7	426.4	420.1	418.6	416.5	411.6	410.2	408.0	404.5
27.5°	417.2	410.2	405.2	401.0	395.3	394.6	390.4	386.8	384.0	382.6	379.7
30°	391.1	383.3	379.7	374.1	369.8	368.4	364.9	359.9	357.8	356.4	354.3
32.5°	362.1	355.7	352.2	347.2	341.6	342.3	338.0	333.8	332.4	330.9	328.8
35°	333.8	327.4	323.2	318.9	315.4	314.0	311.1	307.6	305.5	304.8	303.4
37.5°	302.7	297.7	294.2	289.9	287.1	285.7	284.3	280.7	279.3	279.3	276.5
40°	272.3	268.0	265.2	263.1	259.5	258.8	257.4	255.3	254.6	253.9	251.7
42.5°	244.7	239.0	236.9	235.5	233.4	231.9	231.2	229.8	229.1	228.4	226.3
45°	218.5	213.6	211.4	210.0	207.9	207.2	206.5	204.4	203.0	201.5	200.8
47.5°	193.1	189.5	188.8	185.3	183.9	182.4	181.0	179.6	178.9	178.2	175.4
50°	171.1	169.0	165.5	163.4	161.9	161.2	158.4	156.3	155.6	154.9	152.7
52.5°	151.3	148.5	146.4	142.8	142.1	140.7	139.3	136.5	135.1	134.4	132.2
55°	133.7	131.5	128.7	125.9	123.8	123.0	120.9	118.1	116.7	115.3	113.9
57.5°	118.8	115.3	112.4	109.6	108.2	106.1	104.0	102.5	100.4	98.3	96.2
60°	104.7	101.8	98.3	95.5	94.1	92.6	89.8	87.7	85.6	83.4	81.3
62.5°	91.2	88.4	84.9	82.0	80.6	79.2	76.4	74.3	72.1	70.0	67.2
65°	79.2	76.4	73.5	70.7	69.3	67.9	65.1	62.2	60.1	58.0	55.2
67.5°	69.3	65.8	62.9	60.1	58.7	57.3	54.5	52.3	49.5	47.4	44.6
70°	58.7	55.9	53.7	50.9	49.5	48.1	45.3	42.4	40.3	38.2	35.4
72.5°	49.5	46.0	43.8	41.0	39.6	38.9	36.1	33.9	31.8	29.0	26.9
75°	39.6	36.8	33.9	31.8	30.4	29.7	26.9	24.8	22.6	20.5	18.4
77.5°	30.4	28.3	25.5	23.3	21.9	21.2	18.4	16.3	14.1	12.7	10.6
80°	22.6	19.8	18.4	16.3	15.6	14.1	12.7	10.6	9.2	7.1	5.7
82.5°	15.6	13.4	12.0	10.6	9.9	9.2	7.8	6.4	5.0	4.2	3.5
85°	8.5	7.1	6.4	5.7	5.0	5.0	4.2	3.5	2.8	2.1	1.4
87.5°	2.8	2.1	2.1	2.1	2.1	1.4	1.4	1.4	0.7	0.7	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°	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5
2.5°	543.8	543.8	543.8	543.1	543.1	543.1	542.4	545.2	542.4	541.7	543.8
5°	543.1	541.7	541.7	541.7	541.7	541.0	540.3	541.7	539.6	538.9	538.9
7.5°	538.9	538.1	538.1	537.4	536.7	536.0	535.3	536.0	533.9	533.2	533.2
10°	539.6	538.1	538.1	536.0	534.6	532.5	530.4	531.1	528.2	526.1	526.1
12.5°	531.1	527.5	525.4	523.3	521.9	521.2	518.3	519.8	516.9	516.2	516.2
15°	512.0	507.7	504.2	502.8	502.8	501.4	499.3	502.1	500.7	501.4	504.9
17.5°	482.3	480.2	478.0	477.3	478.0	479.5	480.9	485.1	485.1	487.2	490.8
20°	456.1	454.7	456.1	456.1	456.8	459.7	462.5	466.0	467.4	469.6	474.5
22.5°	430.7	430.7	432.1	434.2	433.5	438.4	439.1	445.5	445.5	449.8	454.0
25°	405.9	405.9	407.3	408.0	409.4	412.3	415.1	420.1	421.5	425.7	429.2
27.5°	381.9	381.2	381.2	381.9	383.3	386.8	388.2	393.9	396.0	398.8	402.4
30°	355.0	354.3	355.7	357.1	356.4	359.9	362.1	366.3	367.7	370.6	373.4
32.5°	329.5	329.5	329.5	330.9	330.9	333.8	333.8	338.7	338.7	340.8	343.7
35°	303.4	303.4	304.1	304.8	305.5	306.2	306.9	309.7	310.4	311.1	312.6
37.5°	278.6	277.9	278.6	278.6	277.2	280.0	280.0	282.9	280.7	282.9	283.6
40°	253.2	253.2	252.5	252.5	252.5	253.9	252.5	254.6	253.2	254.6	253.9
42.5°	227.0	227.0	225.6	227.0	226.3	226.3	226.3	227.7	225.6	227.0	227.7
45°	200.8	200.1	200.1	199.4	199.4	199.4	200.1	200.1	199.4	200.8	200.8
47.5°	175.4	174.7	174.7	174.7	174.7	175.4	173.3	174.7	173.3	173.3	173.3
50°	153.5	152.7	152.0	151.3	150.6	150.6	149.9	149.9	148.5	147.8	147.1
52.5°	132.2	131.5	130.1	130.1	129.4	128.7	126.6	126.6	124.5	123.8	123.8
55°	113.1	111.0	110.3	108.9	108.9	107.5	106.1	104.7	102.5	101.1	101.1
57.5°	95.5	93.3	91.9	91.2	90.5	89.1	86.3	85.6	82.7	82.0	81.3
60°	79.9	77.8	75.7	74.3	73.5	71.4	68.6	67.2	65.8	63.6	61.5
62.5°	65.1	62.9	60.1	59.4	58.0	55.9	53.7	51.6	50.2	48.1	46.7
65°	52.3	50.2	48.1	46.7	45.3	43.1	41.0	38.9	37.5	36.8	36.1
67.5°	42.4	39.6	37.5	36.8	35.4	33.9	31.8	31.1	29.7	29.7	29.7
70°	33.2	31.1	29.0	28.3	27.6	26.2	24.8	24.8	24.8	24.8	24.8
72.5°	24.8	23.3	21.2	20.5	19.8	19.1	17.7	18.4	17.7	17.7	17.7
75°	15.6	14.1	12.7	12.0	11.3	10.6	9.9	9.2	8.5	7.8	7.8
77.5°	8.5	7.1	6.4	5.7	5.7	5.0	4.2	4.2	3.5	3.5	3.5
80°	5.0	4.2	3.5	2.8	2.8	2.1	2.1	2.1	2.1	1.4	1.4
82.5°	2.8	2.1	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7
85°	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5
2.5°	540.3	542.4	540.3	542.4	542.4	542.4	542.4	540.3
5°	536.7	538.1	536.0	537.4	538.1	537.4	537.4	535.3
7.5°	530.4	531.8	529.7	531.8	532.5	531.8	531.1	529.7
10°	524.0	524.7	522.6	524.0	525.4	525.4	524.7	522.6
12.5°	514.1	516.2	514.1	515.5	516.9	517.6	517.6	515.5
15°	502.8	506.3	504.9	507.0	509.2	509.9	509.9	509.2
17.5°	491.5	495.0	492.9	496.4	498.5	500.0	500.7	499.3
20°	475.2	479.5	478.0	480.9	483.7	485.8	485.8	483.7
22.5°	454.0	459.7	458.9	461.1	464.6	465.3	466.7	465.3
25°	430.7	434.9	434.2	436.3	440.6	440.6	441.3	441.3
27.5°	403.8	408.0	407.3	408.7	411.6	412.3	413.0	411.6
30°	374.8	376.9	376.9	379.0	381.2	381.9	381.9	379.7
32.5°	343.0	345.8	347.2	346.5	348.6	350.0	349.3	349.3
35°	314.0	314.7	315.4	316.1	316.8	318.2	316.8	316.1
37.5°	282.9	285.0	283.6	285.0	286.4	285.7	285.0	285.0
40°	254.6	255.3	253.9	255.3	256.0	256.0	256.0	254.6
42.5°	226.3	227.7	226.3	227.7	227.7	227.7	227.7	227.0
45°	198.0	199.4	199.4	200.1	200.1	199.4	199.4	199.4
47.5°	171.8	173.3	171.8	173.3	174.0	172.5	172.5	172.5
50°	147.1	146.4	146.4	147.1	147.1	147.1	147.1	146.4
52.5°	121.6	122.3	122.3	122.3	123.0	122.3	123.0	123.0
55°	99.7	99.7	99.7	100.4	99.7	99.7	100.4	101.1
57.5°	79.9	79.2	78.5	78.5	79.2	78.5	78.5	78.5
60°	61.5	60.8	60.1	60.1	60.1	60.1	60.1	59.4
62.5°	46.0	46.0	46.0	46.7	46.7	46.7	46.7	47.4
65°	36.8	36.8	36.8	36.8	36.8	36.8	36.8	37.5
67.5°	29.7	29.7	29.7	30.4	30.4	30.4	30.4	30.4
70°	24.8	24.8	25.5	24.8	25.5	25.5	25.5	25.5
72.5°	17.0	17.0	17.0	17.0	17.0	16.3	17.0	16.3
75°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	6.4
77.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.7	0.7	0.7	0.7	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)