

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: P252465

Luminaire Tested: **LD6B15D010 EU6B10209730 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B15D010 EU6B10209730 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 929.0 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

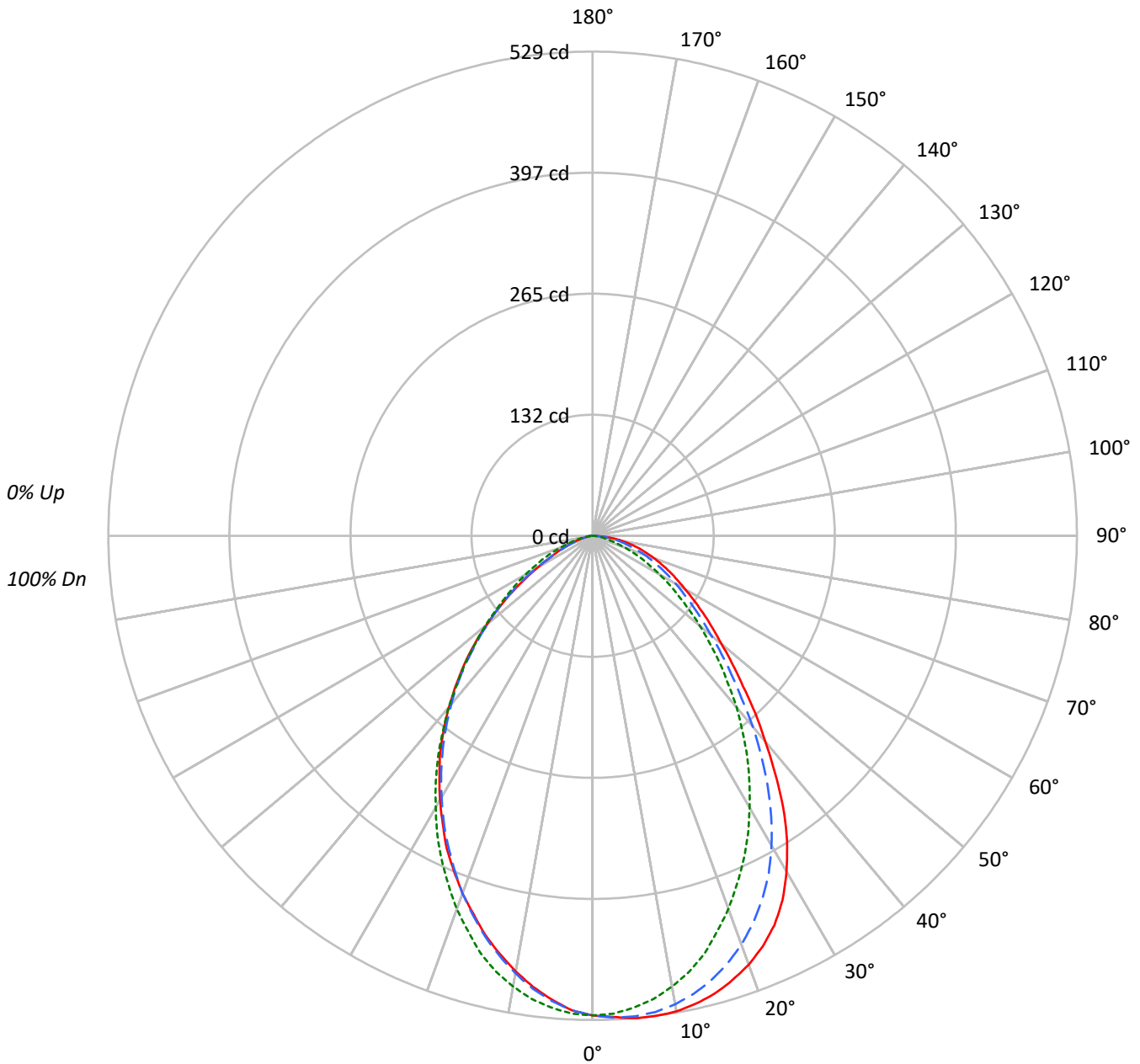
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88			88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77			77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67			67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59			59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53			53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47			47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43			43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39			39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35			35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33			33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	34193	34193	34193
5°	34657	33891	33321
10°	34959	33130	32017
15°	34953	31907	30529
20°	34617	30118	28854
25°	33797	28089	27146
30°	31911	25824	25116
35°	28927	23423	23129
40°	24979	20832	20763
45°	21424	18130	18268
50°	18614	15519	15296
55°	16720	13081	12250
60°	15201	11013	9029
65°	14264	9108	6623
70°	13601	7077	4864
75°	13032	5142	3302
80°	12323	3569	2179
85°	10929	2171	1123



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	5.3
10°-20°	134.3	14.5
20°-30°	186.4	20.1
30°-40°	193.1	20.8
40°-50°	158.7	17.1
50°-60°	109.0	11.7
60°-70°	62.7	6.7
70°-80°	28.8	3.1
80°-90°	7.0	0.8
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°	369.7	39.8
0°-40°	562.8	60.6
0°-60°	830.5	89.4
0°-90°	929.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	929.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	524	524	524	524	524	
5°	529	527	518	510	509	50
15°	518	502	472	454	452	146
25°	470	438	390	373	377	215
35°	363	333	294	285	290	225
45°	232	215	196	194	198	181
55°	147	133	115	108	108	132
65°	92	81	59	42	43	92
75°	52	41	20	13	13	55
85°	15	10	3	2	2	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°	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1
2.5°	526.3	530.6	527.7	527.0	528.5	528.5	528.5	526.3	527.7	525.5	527.0
5°	529.2	532.8	529.9	528.5	529.9	530.6	528.5	527.0	529.2	526.3	527.0
7.5°	529.2	532.8	529.9	529.2	529.9	529.9	529.2	526.3	527.7	524.8	524.8
10°	527.7	530.6	527.7	526.3	527.0	526.3	526.3	522.6	523.4	519.7	519.7
12.5°	523.4	527.0	523.4	521.9	521.9	521.9	519.7	516.8	517.5	513.2	512.4
15°	517.5	520.5	516.8	515.4	515.4	514.6	513.2	508.8	508.8	504.4	502.3
17.5°	508.8	511.7	508.8	506.6	505.9	504.4	503.0	498.6	497.2	492.1	489.9
20°	498.6	500.8	497.9	495.7	494.2	492.8	489.9	485.5	484.1	479.0	475.3
22.5°	485.5	488.4	484.1	481.9	480.4	478.2	475.3	471.0	468.8	462.2	457.9
25°	469.5	471.0	467.3	465.1	462.2	460.8	458.6	452.8	450.6	443.3	438.2
27.5°	449.1	450.6	446.2	444.8	441.1	439.7	436.7	431.6	428.7	421.5	416.4
30°	423.6	425.1	422.2	420.0	417.1	414.2	412.0	406.9	402.5	395.3	390.9
32.5°	395.3	397.4	394.5	391.6	386.5	387.2	383.6	378.5	374.9	368.3	363.2
35°	363.2	364.7	361.0	360.3	357.4	354.5	350.9	347.2	345.0	337.7	333.4
37.5°	327.6	331.2	327.6	324.6	323.2	321.0	318.8	313.7	312.3	307.9	302.1
40°	293.3	295.5	293.3	290.4	288.3	288.3	285.3	282.4	278.8	274.4	272.2
42.5°	262.8	261.3	260.6	259.1	256.2	255.5	254.8	251.1	248.9	244.6	240.9
45°	232.2	232.9	231.5	230.7	228.6	227.1	225.7	222.7	222.0	217.6	214.7
47.5°	206.7	206.0	204.5	204.5	203.1	201.6	200.2	198.0	197.3	193.6	190.7
50°	183.4	184.2	183.4	182.7	180.5	179.8	178.3	176.9	175.4	171.8	168.9
52.5°	164.5	163.8	163.1	163.1	160.9	160.1	158.7	157.2	155.8	152.1	149.9
55°	147.0	147.0	146.3	145.6	143.4	142.7	141.9	140.5	138.3	135.4	133.2
57.5°	131.0	131.0	130.3	129.6	128.1	128.1	126.7	125.2	123.7	120.8	117.9
60°	116.5	117.2	116.5	115.7	114.3	114.3	113.6	111.4	110.6	107.0	104.8
62.5°	104.1	104.1	104.1	103.4	102.6	101.2	101.2	99.0	97.5	95.4	92.4
65°	92.4	92.4	92.4	91.7	90.3	89.5	88.8	87.3	85.9	83.7	80.8
67.5°	81.5	81.5	81.5	80.8	79.3	78.6	77.9	77.2	75.0	72.8	69.9
70°	71.3	71.3	70.6	69.9	69.2	68.4	67.7	66.2	64.8	61.9	59.7
72.5°	61.1	61.1	61.1	59.7	59.0	59.0	57.5	56.8	55.3	52.4	50.2
75°	51.7	51.0	51.0	50.2	49.5	48.8	48.0	47.3	45.1	43.7	40.8
77.5°	42.2	42.2	41.5	40.8	40.8	40.0	39.3	37.9	37.1	34.9	32.8
80°	32.8	32.8	32.8	32.8	32.0	31.3	31.3	29.8	29.1	26.9	25.5
82.5°	24.7	24.0	24.0	24.0	23.3	22.6	22.6	21.8	21.1	19.7	18.2
85°	14.6	13.8	13.8	13.8	13.1	13.1	12.4	12.4	11.6	10.2	10.2
87.5°	4.4	4.4	5.1	5.1	4.4	4.4	4.4	4.4	4.4	3.6	3.6
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1
2.5°	525.5	527.7	524.8	524.1	527.0	525.5	524.8	523.4	524.1	522.6	520.5
5°	524.8	527.7	524.1	521.9	525.5	523.4	521.9	520.5	520.5	517.5	516.1
7.5°	522.6	524.1	520.5	518.3	520.5	518.3	516.8	514.6	513.9	510.3	508.1
10°	516.8	518.3	513.9	511.0	513.2	510.3	508.1	505.9	504.4	500.1	497.2
12.5°	508.8	509.5	504.4	500.8	502.3	500.1	496.4	493.5	492.1	487.7	484.1
15°	497.9	498.6	492.8	487.7	489.2	486.2	481.9	479.0	476.8	472.4	467.3
17.5°	484.8	484.1	477.5	472.4	473.1	469.5	465.1	460.8	457.9	452.8	449.1
20°	470.2	468.0	460.8	454.9	455.7	451.3	446.2	441.8	438.2	433.8	428.7
22.5°	452.0	449.1	442.6	435.3	436.0	432.4	425.1	421.5	417.8	412.0	407.6
25°	432.4	428.0	421.5	414.2	414.2	409.8	404.0	399.6	396.0	390.2	385.1
27.5°	409.1	406.9	398.2	392.3	391.6	387.2	382.2	377.1	372.7	367.6	362.5
30°	383.6	380.0	373.4	366.9	365.4	361.8	356.7	350.9	347.9	342.8	338.5
32.5°	356.7	353.0	345.8	339.2	338.5	335.6	331.2	325.4	322.5	318.8	315.9
35°	326.1	324.6	317.4	312.3	312.3	309.4	305.0	299.9	297.7	294.1	290.4
37.5°	297.0	294.8	288.3	283.9	283.9	280.2	275.9	273.7	271.5	268.6	266.4
40°	266.4	265.0	259.9	255.5	256.2	253.3	250.4	247.5	246.0	244.6	242.4
42.5°	238.0	236.6	232.9	229.3	229.3	227.1	224.2	222.0	220.6	218.4	217.6
45°	212.5	210.4	207.5	203.8	203.8	201.6	200.2	198.7	198.0	196.5	194.4
47.5°	187.8	186.3	183.4	179.8	179.8	179.8	176.9	174.7	174.7	173.2	172.5
50°	166.7	164.5	162.3	159.4	159.4	158.0	155.8	153.6	153.6	152.9	151.4
52.5°	147.0	145.6	142.7	139.8	139.8	138.3	136.1	135.4	134.7	132.5	131.8
55°	130.3	128.8	126.7	123.0	122.3	121.6	119.4	117.9	117.2	115.0	115.0
57.5°	115.0	113.6	109.9	107.7	107.0	105.5	103.4	101.9	101.2	99.7	98.3
60°	101.9	99.7	96.8	93.9	93.2	91.7	89.5	88.1	87.3	84.4	83.0
62.5°	89.5	87.3	84.4	81.5	80.8	79.3	76.4	75.0	73.5	70.6	69.2
65°	77.9	75.7	72.8	69.9	68.4	67.7	64.8	62.6	61.1	59.0	56.0
67.5°	67.0	64.8	61.9	58.2	58.2	56.0	53.9	51.7	49.5	47.3	45.1
70°	56.8	54.6	51.7	48.8	48.0	46.6	44.4	41.5	40.0	37.1	34.9
72.5°	47.3	45.1	42.2	39.3	38.6	37.1	34.9	32.0	29.8	27.7	25.5
75°	38.6	36.4	33.5	31.3	30.6	29.1	26.9	24.0	21.8	20.4	18.2
77.5°	30.6	28.4	26.2	24.0	23.3	21.8	19.7	18.2	16.0	14.6	12.4
80°	23.3	21.8	19.7	18.2	17.5	16.0	14.6	12.4	10.9	9.5	8.7
82.5°	16.7	15.3	13.8	11.6	11.6	10.2	9.5	8.0	6.6	5.8	5.1
85°	9.5	8.0	7.3	6.6	5.8	5.8	5.1	4.4	3.6	2.9	2.9
87.5°	2.9	2.9	2.2	2.2	2.2	2.2	1.5	1.5	1.5	1.5	1.5
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1
2.5°	520.5	521.2	519.7	521.2	519.7	520.5	519.0	520.5	519.0	520.5	517.5
5°	515.4	515.4	513.2	514.6	513.2	513.9	511.0	511.7	510.3	511.7	508.8
7.5°	506.6	507.4	503.7	505.2	503.0	503.0	500.8	501.5	499.3	500.1	497.9
10°	496.4	495.7	492.1	493.5	490.6	490.6	488.4	488.4	485.5	486.2	483.3
12.5°	481.9	481.1	476.8	478.2	475.3	475.3	473.1	473.1	470.2	471.7	468.8
15°	465.1	464.4	460.0	460.8	457.9	457.9	454.9	455.7	453.5	454.9	452.0
17.5°	446.2	445.5	441.1	441.8	438.2	438.9	436.7	436.0	434.6	435.3	433.1
20°	426.6	425.1	420.7	421.5	420.0	417.8	416.4	417.1	415.6	417.1	414.9
22.5°	406.2	403.3	399.6	399.6	398.2	398.2	396.0	397.4	394.5	396.7	395.3
25°	382.9	380.7	377.8	379.2	376.3	376.3	374.1	374.9	373.4	374.9	373.4
27.5°	360.3	358.9	354.5	355.9	353.8	354.5	352.3	353.0	352.3	353.8	352.3
30°	336.3	335.6	332.7	332.7	331.9	331.2	330.5	330.5	329.7	331.9	330.5
32.5°	313.7	311.5	308.6	310.8	307.2	309.4	307.9	309.4	307.9	309.4	308.6
35°	290.4	289.7	286.1	286.8	286.1	286.1	285.3	285.3	285.3	287.5	287.5
37.5°	265.7	265.0	262.8	263.5	262.0	261.3	261.3	262.8	262.8	264.2	264.2
40°	241.7	242.4	240.2	240.2	239.5	239.5	239.5	240.9	240.2	241.7	240.9
42.5°	217.6	217.6	215.5	216.2	215.5	216.2	216.2	217.6	217.6	218.4	217.6
45°	195.1	195.1	194.4	195.1	193.6	194.4	193.6	195.1	194.4	195.1	195.1
47.5°	172.5	172.5	172.5	171.8	171.8	171.8	171.8	171.8	171.1	172.5	171.8
50°	151.4	152.1	151.4	151.4	150.7	151.4	150.7	150.7	149.2	149.9	149.9
52.5°	132.5	132.5	131.0	131.0	131.0	130.3	130.3	130.3	129.6	129.6	128.1
55°	114.3	114.3	112.8	112.8	112.1	111.4	110.6	110.6	108.5	108.5	106.3
57.5°	97.5	96.8	94.6	94.6	93.2	92.4	91.7	91.0	89.5	88.1	87.3
60°	82.3	80.8	79.3	78.6	77.2	75.7	74.2	72.8	71.3	70.6	69.9
62.5°	67.7	65.5	64.1	63.3	61.9	59.7	58.2	56.8	55.3	54.6	53.1
65°	54.6	52.4	50.2	49.5	48.0	46.6	44.4	42.9	41.5	40.8	40.8
67.5°	42.9	40.8	37.9	37.9	36.4	34.9	33.5	32.0	31.3	32.0	32.0
70°	32.0	30.6	28.4	27.7	26.2	24.7	24.0	24.0	24.0	24.7	24.0
72.5°	24.0	21.8	20.4	19.7	18.9	18.2	18.2	18.2	17.5	18.2	18.2
75°	16.7	15.3	13.8	13.8	13.1	13.1	13.1	13.1	13.1	13.1	13.1
77.5°	11.6	10.2	9.5	9.5	9.5	8.7	8.7	8.7	8.7	8.7	8.7
80°	7.3	7.3	6.6	6.6	5.8	5.8	5.8	5.8	5.8	5.8	5.8
82.5°	4.4	4.4	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
85°	2.2	2.2	2.2	2.2	2.2	1.5	1.5	1.5	1.5	1.5	1.5
87.5°	0.7	0.7	0.7	0.7	0.7	1.5	1.5	1.5	1.5	1.5	1.5
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1
2.5°	517.5	519.7	516.8	519.0	518.3	517.5	516.1	519.0
5°	508.8	509.5	506.6	509.5	508.8	507.4	505.9	508.8
7.5°	496.4	498.6	495.0	497.9	497.2	495.7	494.2	497.2
10°	482.6	484.8	481.9	484.1	484.1	482.6	480.4	483.3
12.5°	467.3	468.8	465.9	468.8	468.0	466.6	465.9	468.0
15°	450.6	452.8	449.8	452.0	451.3	450.6	449.8	452.0
17.5°	432.4	434.6	432.4	434.6	434.6	432.4	431.6	433.1
20°	414.2	415.6	413.5	415.6	414.9	414.9	413.5	415.6
22.5°	393.8	396.0	394.5	396.0	395.3	395.3	394.5	396.0
25°	373.4	375.6	373.4	375.6	374.9	374.9	373.4	377.1
27.5°	353.0	354.5	352.3	355.2	354.5	353.0	353.8	354.5
30°	331.2	332.7	331.2	333.4	333.4	333.4	331.9	333.4
32.5°	309.4	311.5	309.4	311.5	310.8	310.8	310.1	311.5
35°	287.5	288.3	286.8	289.0	289.0	289.7	288.3	290.4
37.5°	265.0	265.7	265.0	265.7	267.1	265.0	266.4	267.1
40°	241.7	243.1	242.4	243.1	243.1	243.8	243.1	243.8
42.5°	218.4	219.8	218.4	220.6	219.8	219.8	220.6	220.6
45°	194.4	196.5	195.1	196.5	197.3	196.5	196.5	198.0
47.5°	171.8	173.2	172.5	173.2	173.2	173.2	173.2	174.7
50°	149.2	149.9	149.9	150.7	150.7	151.4	149.9	150.7
52.5°	126.7	128.1	128.1	128.1	127.4	128.1	128.1	128.1
55°	106.3	107.0	105.5	107.0	107.0	106.3	106.3	107.7
57.5°	86.6	86.6	86.6	86.6	86.6	85.9	86.6	86.6
60°	68.4	69.2	68.4	68.4	68.4	68.4	67.7	69.2
62.5°	53.1	53.1	52.4	53.1	53.1	53.1	53.9	53.9
65°	41.5	42.2	41.5	42.2	42.2	42.2	42.2	42.9
67.5°	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8
70°	24.7	24.7	24.7	25.5	24.7	24.7	24.7	25.5
72.5°	18.2	18.2	18.2	18.2	18.2	18.2	18.9	18.9
75°	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
77.5°	8.7	8.7	8.7	9.5	8.7	9.5	8.7	8.7
80°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
82.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
87.5°	1.5	1.5	1.5	1.5	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



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)