

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: P252443

Luminaire Tested: **LD6B10D010 EU6B10208040 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252443
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: LD6B10D010 EU6B10208040 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 935.0 lumens
Efficiency: N/A
Efficacy: 93.0 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

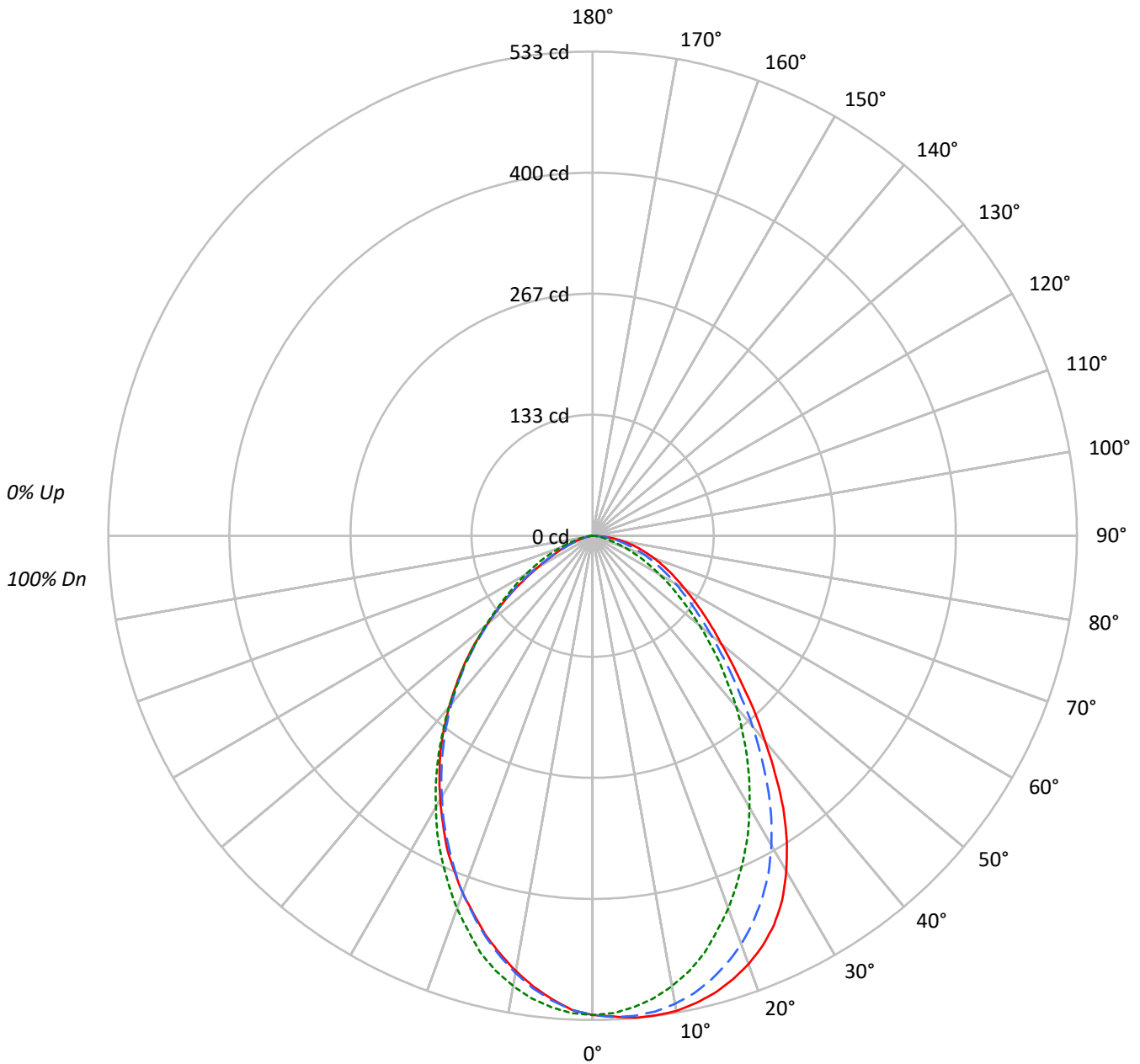
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88	88	88	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77	77	77	77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67	67	67	67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59	59	59	59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53	53	53	53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47	47	47	47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43	43	43	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39	39	39	39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35	35	35	35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33	33	33	33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	34414	34414	34414
5°	34880	34114	33537
10°	35184	33342	32229
15°	35183	32116	30732
20°	34839	30312	29042
25°	34013	28269	27318
30°	32122	25998	25274
35°	29118	23575	23280
40°	25141	20968	20900
45°	21562	18250	18388
50°	18736	15610	15397
55°	16834	13172	12330
60°	15292	11091	9081
65°	14357	9154	6669
70°	13696	7134	4883
75°	13108	5167	3327
80°	12398	3569	2217
85°	11004	2171	1123



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	5.3
10°-20°	135.1	14.5
20°-30°	187.6	20.1
30°-40°	194.3	20.8
40°-50°	159.7	17.1
50°-60°	109.8	11.7
60°-70°	63.1	6.7
70°-80°	29.0	3.1
80°-90°	7.1	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°	372.1	39.8
0°-40°	566.4	60.6
0°-60°	835.9	89.4
0°-90°	935.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	935.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	528	528	528	528	528	
5°	533	530	521	514	512	51
15°	521	506	476	456	455	147
25°	472	441	393	376	380	216
35°	366	336	296	287	292	227
45°	234	216	198	196	199	182
55°	148	134	116	109	108	133
65°	93	81	59	42	43	93
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°	527.5	527.5	527.5	527.5	527.5	527.5	527.5	527.5	527.5	527.5	527.5
2.5°	529.7	534.1	531.1	530.4	531.9	531.9	531.9	529.7	531.1	528.9	530.4
5°	532.6	536.3	533.3	531.9	533.3	534.1	531.9	530.4	532.6	529.7	530.4
7.5°	532.6	536.3	533.3	532.6	533.3	533.3	532.6	529.7	531.1	528.2	528.2
10°	531.1	534.1	531.1	529.7	530.4	529.7	529.7	526.0	526.7	523.1	523.1
12.5°	526.7	530.4	526.7	525.3	525.3	525.3	523.1	520.2	520.9	516.5	515.8
15°	520.9	523.8	520.2	518.7	518.7	518.0	516.5	512.1	512.1	507.7	505.5
17.5°	512.1	515.0	512.1	509.9	509.2	507.7	506.2	501.8	500.4	495.2	493.0
20°	501.8	504.0	501.1	498.9	497.4	496.0	493.0	488.7	487.2	482.1	478.4
22.5°	488.7	491.6	487.2	485.0	483.5	481.3	478.4	474.0	471.8	465.2	460.8
25°	472.5	474.0	470.3	468.1	465.2	463.7	461.5	455.7	453.5	446.2	441.0
27.5°	452.0	453.5	449.1	447.6	444.0	442.5	439.6	434.4	431.5	424.2	419.1
30°	426.4	427.8	424.9	422.7	419.8	416.9	414.7	409.5	405.1	397.8	393.4
32.5°	397.8	400.0	397.1	394.1	389.0	389.7	386.1	381.0	377.3	370.7	365.6
35°	365.6	367.0	363.4	362.6	359.7	356.8	353.1	349.5	347.3	339.9	335.5
37.5°	329.7	333.3	329.7	326.7	325.3	323.1	320.9	315.8	314.3	309.9	304.0
40°	295.2	297.4	295.2	292.3	290.1	290.1	287.2	284.3	280.6	276.2	274.0
42.5°	264.5	263.0	262.3	260.8	257.9	257.1	256.4	252.8	250.6	246.2	242.5
45°	233.7	234.4	233.0	232.2	230.0	228.6	227.1	224.2	223.4	219.1	216.1
47.5°	208.1	207.3	205.9	205.9	204.4	202.9	201.5	199.3	198.5	194.9	191.9
50°	184.6	185.4	184.6	183.9	181.7	181.0	179.5	178.0	176.6	172.9	170.0
52.5°	165.6	164.8	164.1	164.1	161.9	161.2	159.7	158.2	156.8	153.1	150.9
55°	148.0	148.0	147.3	146.5	144.3	143.6	142.9	141.4	139.2	136.3	134.1
57.5°	131.9	131.9	131.1	130.4	128.9	128.9	127.5	126.0	124.5	121.6	118.7
60°	117.2	118.0	117.2	116.5	115.0	115.0	114.3	112.1	111.4	107.7	105.5
62.5°	104.8	104.8	104.8	104.0	103.3	101.8	101.8	99.6	98.2	96.0	93.0
65°	93.0	93.0	93.0	92.3	90.8	90.1	89.4	87.9	86.4	84.3	81.3
67.5°	82.1	82.1	82.1	81.3	79.9	79.1	78.4	77.7	75.5	73.3	70.3
70°	71.8	71.8	71.1	70.3	69.6	68.9	68.1	66.7	65.2	62.3	60.1
72.5°	61.5	61.5	61.5	60.1	59.3	59.3	57.9	57.1	55.7	52.7	50.6
75°	52.0	51.3	51.3	50.6	49.8	49.1	48.4	47.6	45.4	44.0	41.0
77.5°	42.5	42.5	41.8	41.0	41.0	40.3	39.6	38.1	37.4	35.2	33.0
80°	33.0	33.0	33.0	33.0	32.2	31.5	31.5	30.0	29.3	27.1	25.6
82.5°	24.9	24.2	24.2	24.2	23.4	22.7	22.7	22.0	21.2	19.8	18.3
85°	14.7	13.9	13.9	13.9	13.2	13.2	12.5	12.5	11.7	10.3	10.3
87.5°	4.4	4.4	5.1	5.1	4.4	4.4	4.4	4.4	4.4	3.7	3.7
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	527.5	527.5	527.5	527.5	527.5	527.5	527.5	527.5	527.5	527.5	527.5
2.5°	528.9	531.1	528.2	527.5	530.4	528.9	528.2	526.7	527.5	526.0	523.8
5°	528.2	531.1	527.5	525.3	528.9	526.7	525.3	523.8	523.8	520.9	519.4
7.5°	526.0	527.5	523.8	521.6	523.8	521.6	520.2	518.0	517.2	513.6	511.4
10°	520.2	521.6	517.2	514.3	516.5	513.6	511.4	509.2	507.7	503.3	500.4
12.5°	512.1	512.8	507.7	504.0	505.5	503.3	499.6	496.7	495.2	490.8	487.2
15°	501.1	501.8	496.0	490.8	492.3	489.4	485.0	482.1	479.9	475.5	470.3
17.5°	487.9	487.2	480.6	475.5	476.2	472.5	468.1	463.7	460.8	455.7	452.0
20°	473.3	471.1	463.7	457.9	458.6	454.2	449.1	444.7	441.0	436.6	431.5
22.5°	455.0	452.0	445.4	438.1	438.8	435.2	427.8	424.2	420.5	414.7	410.3
25°	435.2	430.8	424.2	416.9	416.9	412.5	406.6	402.2	398.5	392.7	387.6
27.5°	411.7	409.5	400.7	394.9	394.1	389.7	384.6	379.5	375.1	370.0	364.8
30°	386.1	382.4	375.8	369.2	367.8	364.1	359.0	353.1	350.2	345.1	340.7
32.5°	359.0	355.3	348.0	341.4	340.7	337.7	333.3	327.5	324.5	320.9	318.0
35°	328.2	326.7	319.4	314.3	314.3	311.4	307.0	301.8	299.6	296.0	292.3
37.5°	298.9	296.7	290.1	285.7	285.7	282.1	277.7	275.5	273.3	270.3	268.1
40°	268.1	266.7	261.5	257.1	257.9	254.9	252.0	249.1	247.6	246.2	244.0
42.5°	239.6	238.1	234.4	230.8	230.8	228.6	225.6	223.4	222.0	219.8	219.1
45°	213.9	211.7	208.8	205.1	205.1	202.9	201.5	200.0	199.3	197.8	195.6
47.5°	189.0	187.5	184.6	181.0	181.0	181.0	178.0	175.8	175.8	174.4	173.6
50°	167.8	165.6	163.4	160.4	160.4	159.0	156.8	154.6	154.6	153.8	152.4
52.5°	148.0	146.5	143.6	140.7	140.7	139.2	137.0	136.3	135.5	133.3	132.6
55°	131.1	129.7	127.5	123.8	123.1	122.3	120.1	118.7	118.0	115.8	115.8
57.5°	115.8	114.3	110.6	108.4	107.7	106.2	104.0	102.6	101.8	100.4	98.9
60°	102.6	100.4	97.4	94.5	93.8	92.3	90.1	88.6	87.9	85.0	83.5
62.5°	90.1	87.9	85.0	82.1	81.3	79.9	76.9	75.5	74.0	71.1	69.6
65°	78.4	76.2	73.3	70.3	68.9	68.1	65.2	63.0	61.5	59.3	56.4
67.5°	67.4	65.2	62.3	58.6	58.6	56.4	54.2	52.0	49.8	47.6	45.4
70°	57.1	54.9	52.0	49.1	48.4	46.9	44.7	41.8	40.3	37.4	35.2
72.5°	47.6	45.4	42.5	39.6	38.8	37.4	35.2	32.2	30.0	27.8	25.6
75°	38.8	36.6	33.7	31.5	30.8	29.3	27.1	24.2	22.0	20.5	18.3
77.5°	30.8	28.6	26.4	24.2	23.4	22.0	19.8	18.3	16.1	14.7	12.5
80°	23.4	22.0	19.8	18.3	17.6	16.1	14.7	12.5	11.0	9.5	8.8
82.5°	16.9	15.4	13.9	11.7	11.7	10.3	9.5	8.1	6.6	5.9	5.1
85°	9.5	8.1	7.3	6.6	5.9	5.9	5.1	4.4	3.7	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°	527.5	527.5	527.5	527.5	527.5	527.5	527.5	527.5	527.5	527.5	527.5
2.5°	523.8	524.5	523.1	524.5	523.1	523.8	522.4	523.8	522.4	523.8	520.9
5°	518.7	518.7	516.5	518.0	516.5	517.2	514.3	515.0	513.6	515.0	512.1
7.5°	509.9	510.6	507.0	508.4	506.2	506.2	504.0	504.8	502.6	503.3	501.1
10°	499.6	498.9	495.2	496.7	493.8	493.8	491.6	491.6	488.7	489.4	486.5
12.5°	485.0	484.3	479.9	481.3	478.4	478.4	476.2	476.2	473.3	474.7	471.8
15°	468.1	467.4	463.0	463.7	460.8	460.8	457.9	458.6	456.4	457.9	455.0
17.5°	449.1	448.4	444.0	444.7	441.0	441.8	439.6	438.8	437.4	438.1	435.9
20°	429.3	427.8	423.4	424.2	422.7	420.5	419.1	419.8	418.3	419.8	417.6
22.5°	408.8	405.9	402.2	402.2	400.7	400.7	398.5	400.0	397.1	399.3	397.8
25°	385.4	383.2	380.2	381.7	378.8	378.8	376.6	377.3	375.8	377.3	375.8
27.5°	362.6	361.2	356.8	358.2	356.0	356.8	354.6	355.3	354.6	356.0	354.6
30°	338.5	337.7	334.8	334.8	334.1	333.3	332.6	332.6	331.9	334.1	332.6
32.5°	315.8	313.6	310.6	312.8	309.2	311.4	309.9	311.4	309.9	311.4	310.6
35°	292.3	291.6	287.9	288.6	287.9	287.9	287.2	287.2	287.2	289.4	289.4
37.5°	267.4	266.7	264.5	265.2	263.7	263.0	263.0	264.5	264.5	265.9	265.9
40°	243.2	244.0	241.8	241.8	241.0	241.0	241.0	242.5	241.8	243.2	242.5
42.5°	219.1	219.1	216.9	217.6	216.9	217.6	217.6	219.1	219.1	219.8	219.1
45°	196.3	196.3	195.6	196.3	194.9	195.6	194.9	196.3	195.6	196.3	196.3
47.5°	173.6	173.6	173.6	172.9	172.9	172.9	172.9	172.9	172.2	173.6	172.9
50°	152.4	153.1	152.4	152.4	151.7	152.4	151.7	151.7	150.2	150.9	150.9
52.5°	133.3	133.3	131.9	131.9	131.9	131.1	131.1	131.1	130.4	130.4	128.9
55°	115.0	115.0	113.6	113.6	112.8	112.1	111.4	111.4	109.2	109.2	107.0
57.5°	98.2	97.4	95.2	95.2	93.8	93.0	92.3	91.6	90.1	88.6	87.9
60°	82.8	81.3	79.9	79.1	77.7	76.2	74.7	73.3	71.8	71.1	70.3
62.5°	68.1	65.9	64.5	63.7	62.3	60.1	58.6	57.1	55.7	54.9	53.5
65°	54.9	52.7	50.6	49.8	48.4	46.9	44.7	43.2	41.8	41.0	41.0
67.5°	43.2	41.0	38.1	38.1	36.6	35.2	33.7	32.2	31.5	32.2	32.2
70°	32.2	30.8	28.6	27.8	26.4	24.9	24.2	24.2	24.2	24.9	24.2
72.5°	24.2	22.0	20.5	19.8	19.0	18.3	18.3	18.3	17.6	18.3	18.3
75°	16.9	15.4	13.9	13.9	13.2	13.2	13.2	13.2	13.2	13.2	13.2
77.5°	11.7	10.3	9.5	9.5	9.5	8.8	8.8	8.8	8.8	8.8	8.8
80°	7.3	7.3	6.6	6.6	5.9	5.9	5.9	5.9	5.9	5.9	5.9
82.5°	4.4	4.4	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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°	527.5	527.5	527.5	527.5	527.5	527.5	527.5	527.5
2.5°	520.9	523.1	520.2	522.4	521.6	520.9	519.4	522.4
5°	512.1	512.8	509.9	512.8	512.1	510.6	509.2	512.1
7.5°	499.6	501.8	498.2	501.1	500.4	498.9	497.4	500.4
10°	485.7	487.9	485.0	487.2	487.2	485.7	483.5	486.5
12.5°	470.3	471.8	468.9	471.8	471.1	469.6	468.9	471.1
15°	453.5	455.7	452.8	455.0	454.2	453.5	452.8	455.0
17.5°	435.2	437.4	435.2	437.4	437.4	435.2	434.4	435.9
20°	416.9	418.3	416.1	418.3	417.6	417.6	416.1	418.3
22.5°	396.3	398.5	397.1	398.5	397.8	397.8	397.1	398.5
25°	375.8	378.0	375.8	378.0	377.3	377.3	375.8	379.5
27.5°	355.3	356.8	354.6	357.5	356.8	355.3	356.0	356.8
30°	333.3	334.8	333.3	335.5	335.5	335.5	334.1	335.5
32.5°	311.4	313.6	311.4	313.6	312.8	312.8	312.1	313.6
35°	289.4	290.1	288.6	290.8	290.8	291.6	290.1	292.3
37.5°	266.7	267.4	266.7	267.4	268.9	266.7	268.1	268.9
40°	243.2	244.7	244.0	244.7	244.7	245.4	244.7	245.4
42.5°	219.8	221.2	219.8	222.0	221.2	221.2	222.0	222.0
45°	195.6	197.8	196.3	197.8	198.5	197.8	197.8	199.3
47.5°	172.9	174.4	173.6	174.4	174.4	174.4	174.4	175.8
50°	150.2	150.9	150.9	151.7	151.7	152.4	150.9	151.7
52.5°	127.5	128.9	128.9	128.9	128.2	128.9	128.9	128.9
55°	107.0	107.7	106.2	107.7	107.7	107.0	107.0	108.4
57.5°	87.2	87.2	87.2	87.2	87.2	86.4	87.2	87.2
60°	68.9	69.6	68.9	68.9	68.9	68.9	68.1	69.6
62.5°	53.5	53.5	52.7	53.5	53.5	53.5	54.2	54.2
65°	41.8	42.5	41.8	42.5	42.5	42.5	42.5	43.2
67.5°	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
70°	24.9	24.9	24.9	25.6	24.9	24.9	24.9	25.6
72.5°	18.3	18.3	18.3	18.3	18.3	18.3	19.0	19.0
75°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
77.5°	8.8	8.8	8.8	9.5	8.8	9.5	8.8	8.8
80°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
82.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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)