

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: P252555

Luminaire Tested: **LD6B10D010 EU6B10209727 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252555
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 EU6B10209727 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 757.0 lumens
Efficiency: N/A
Efficacy: 75.3 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

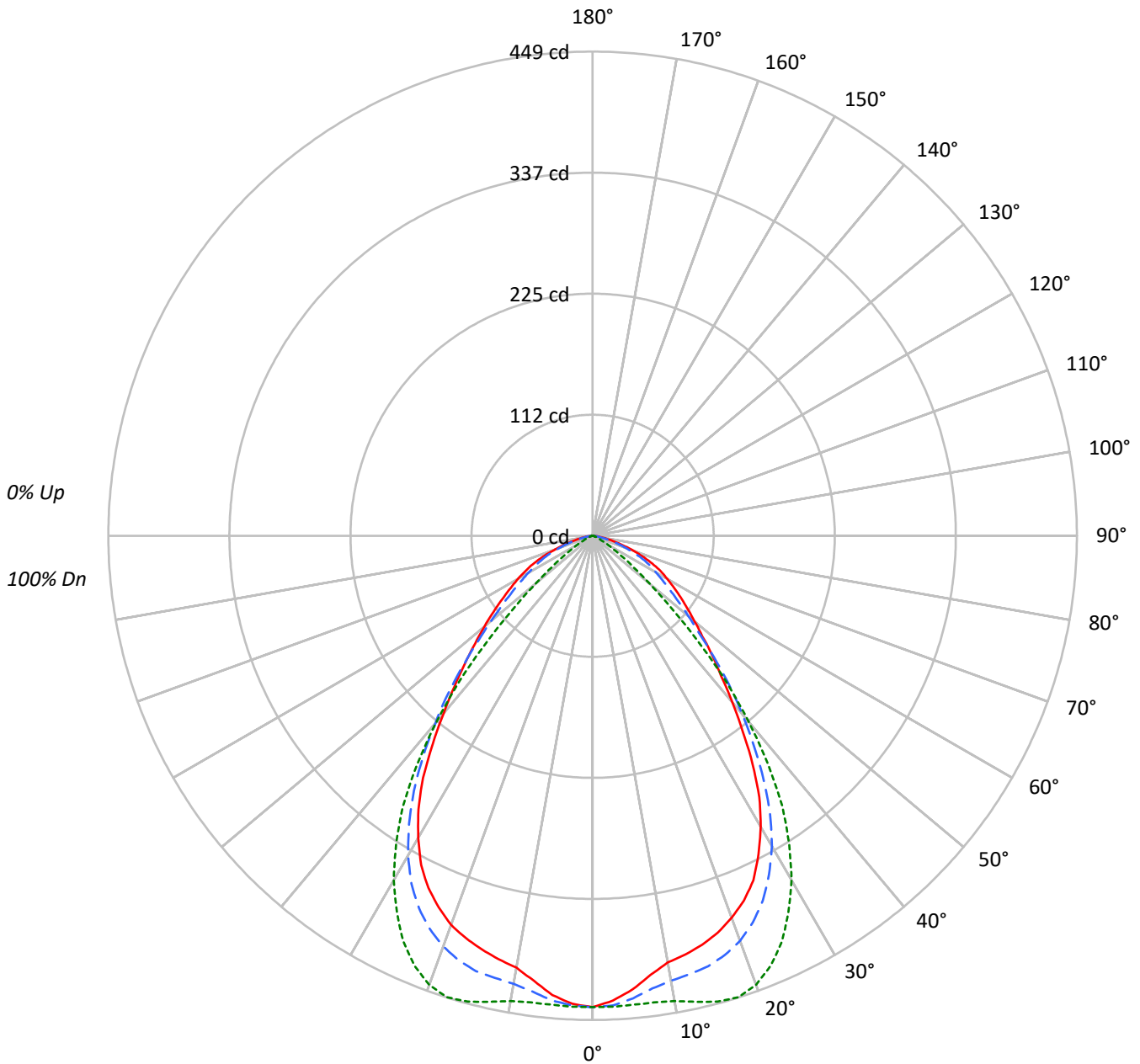
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	28517	28517	28517
5°	27663	28586	27997
10°	26611	29023	26943
15°	26517	30205	26821
20°	26167	30763	26660
25°	25389	29895	25936
30°	23481	27783	24363
35°	20604	24427	21815
40°	17169	19145	18285
45°	14449	12631	15427
50°	12515	6922	13286
55°	11317	3674	11613
60°	10412	1918	10412
65°	9432	1019	9201
70°	7611	572	7039
75°	5218	378	4840
80°	3419	188	3043
85°	2246	374	1871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.8	5.4
10°-20°	117.8	15.6
20°-30°	174.1	23.0
30°-40°	175.9	23.2
40°-50°	121.2	16.0
50°-60°	69.6	9.2
60°-70°	40.5	5.4
70°-80°	14.8	2.0
80°-90°	2.3	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°	332.7	44.0
0°-40°	508.6	67.2
0°-60°	699.4	92.4
0°-90°	757.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	757.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	437	437	437	437	437	
5°	422	430	436	432	428	40
15°	393	413	447	418	397	111
25°	353	373	415	381	360	161
35°	259	276	307	289	274	161
45°	157	159	137	169	167	122
55°	100	87	32	91	102	90
65°	61	52	7	51	60	60
75°	21	17	2	16	19	23
85°	3	2	0	2	2	4
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°	437.1	437.1	437.1	437.1	437.1	437.1	437.1	437.1	437.1	437.1	437.1
2.5°	431.5	432.0	432.5	432.0	432.5	434.5	433.0	434.0	434.0	434.5	436.0
5°	422.4	422.4	423.4	422.9	424.4	426.4	424.9	426.4	426.9	428.0	430.5
7.5°	410.8	410.8	411.3	411.3	413.3	415.3	414.3	416.3	418.4	420.4	423.4
10°	401.7	402.7	402.7	403.2	405.2	407.7	407.2	409.8	411.8	414.8	418.9
12.5°	397.6	398.1	398.1	399.2	401.2	403.7	403.2	405.7	408.8	412.3	416.3
15°	392.6	393.6	393.1	394.1	396.1	398.7	398.1	400.7	404.2	407.7	413.3
17.5°	386.0	386.5	387.0	387.0	389.1	391.1	391.1	393.6	397.6	401.7	407.7
20°	376.9	377.9	377.9	378.4	380.0	383.0	382.5	385.0	389.1	393.1	399.7
22.5°	366.3	366.8	366.8	367.3	369.9	371.4	371.9	373.9	377.4	382.0	388.0
25°	352.7	353.2	352.7	354.2	355.2	358.2	357.2	359.7	363.8	367.3	373.4
27.5°	333.0	334.0	334.0	334.5	337.0	339.5	339.5	342.1	345.6	348.1	354.2
30°	311.7	313.3	311.7	314.3	315.3	317.3	318.8	320.3	323.4	326.9	332.5
32.5°	287.5	287.0	287.5	288.5	291.5	293.1	294.1	295.6	298.6	301.6	306.2
35°	258.7	259.7	260.2	262.2	262.2	264.8	265.3	266.3	270.8	272.8	276.4
37.5°	228.4	229.4	229.9	230.9	232.9	233.9	235.5	237.0	240.0	243.5	245.6
40°	201.6	201.6	202.1	203.1	204.6	205.1	206.7	208.7	210.7	213.7	215.7
42.5°	176.3	176.8	176.3	177.3	178.9	180.9	180.4	182.9	183.4	185.4	186.9
45°	156.6	156.6	155.6	156.6	156.6	158.7	158.1	159.2	158.7	159.7	158.7
47.5°	137.9	138.4	137.9	138.4	138.4	138.4	138.9	137.9	138.4	136.9	133.9
50°	123.3	123.8	122.8	123.3	122.8	122.3	122.8	121.3	120.8	118.7	115.7
52.5°	110.7	110.1	109.6	109.6	109.6	109.1	108.6	107.1	105.6	103.6	100.0
55°	99.5	99.0	98.5	98.5	97.5	97.0	97.0	95.5	94.0	91.5	87.4
57.5°	89.4	88.9	88.4	88.4	87.9	86.9	86.9	85.4	83.4	80.3	76.8
60°	79.8	79.8	79.8	79.3	79.3	78.3	78.3	76.8	74.8	71.7	67.7
62.5°	71.2	70.7	70.7	70.7	70.7	70.2	69.7	68.7	66.7	63.7	60.1
65°	61.1	61.1	61.1	61.1	60.6	60.6	60.6	59.1	58.1	55.1	51.5
67.5°	50.0	50.0	50.0	50.0	49.5	50.0	50.0	49.0	48.0	45.0	41.9
70°	39.9	39.4	38.9	39.4	38.9	38.9	39.4	38.4	37.9	35.4	32.3
72.5°	29.3	29.8	29.3	29.3	29.3	28.8	29.3	28.8	27.8	25.8	23.7
75°	20.7	21.2	21.2	20.7	20.7	20.7	20.2	20.2	19.2	17.7	16.7
77.5°	14.1	14.1	14.1	14.1	13.6	13.6	13.6	13.1	12.6	11.6	10.6
80°	9.1	9.1	9.1	9.1	8.6	8.6	8.6	8.1	8.1	7.1	6.1
82.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.1	5.1	4.5	4.0	3.5
85°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.5	2.5	2.0	1.5
87.5°	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	437.1	437.1	437.1	437.1	437.1	437.1	437.1	437.1	437.1	437.1	437.1
2.5°	435.0	435.5	435.5	435.5	437.1	437.6	436.0	434.5	437.6	437.1	438.1
5°	430.0	431.5	432.5	433.0	434.5	435.5	434.0	433.5	436.0	436.5	437.1
7.5°	423.9	426.4	429.0	430.0	432.0	433.0	432.5	432.5	435.5	436.5	436.5
10°	419.9	423.4	426.4	429.0	431.5	433.0	433.0	433.5	437.1	438.1	439.1
12.5°	418.9	423.4	427.5	431.0	433.0	435.5	436.0	437.6	441.1	442.6	442.6
15°	416.3	422.4	427.5	432.0	435.0	438.1	439.1	442.1	446.1	447.2	448.2
17.5°	411.8	417.9	423.9	429.5	433.5	436.0	439.1	442.1	447.2	448.7	449.2
20°	403.7	410.8	416.8	422.4	426.4	430.0	433.0	436.5	441.1	443.1	443.6
22.5°	391.6	398.7	404.7	410.8	414.8	417.9	420.9	424.9	429.5	431.5	431.5
25°	376.9	383.5	390.1	394.6	398.7	402.2	403.7	408.3	412.8	415.3	415.3
27.5°	358.2	364.3	370.4	375.4	377.9	381.0	383.5	387.5	391.1	393.1	395.1
30°	334.5	340.5	346.1	351.2	354.2	357.2	359.7	362.8	366.3	368.8	369.3
32.5°	308.7	313.8	319.3	324.4	327.4	328.4	330.9	334.0	337.0	339.0	339.5
35°	280.4	284.0	287.5	292.0	295.1	295.1	297.6	299.6	302.1	306.7	305.7
37.5°	247.1	252.1	254.7	256.2	258.2	260.2	260.7	263.2	266.3	267.3	268.8
40°	215.7	217.3	218.8	218.8	220.8	220.8	220.8	221.3	224.3	224.8	226.9
42.5°	184.4	184.4	182.9	181.4	181.9	181.4	178.9	178.9	180.4	182.4	182.4
45°	155.1	151.6	147.0	143.5	141.0	140.0	136.9	136.9	136.4	136.9	138.9
47.5°	130.4	124.3	116.7	109.6	107.1	105.1	100.5	98.5	97.5	98.0	99.0
50°	109.6	103.1	94.5	85.9	81.3	78.8	73.3	69.7	69.2	68.2	70.2
52.5°	94.5	86.4	77.3	67.2	62.7	58.6	52.5	49.5	47.5	47.5	48.0
55°	81.3	72.8	62.7	52.5	48.0	45.0	38.9	34.9	32.8	32.3	33.9
57.5°	70.2	62.1	52.0	41.9	37.4	33.9	27.8	24.3	22.7	21.7	22.2
60°	61.6	53.6	43.5	33.9	29.8	25.8	20.7	16.7	14.7	14.7	15.2
62.5°	53.6	46.0	36.9	27.8	24.3	20.7	15.2	11.6	10.1	9.6	10.1
65°	45.5	38.4	30.8	23.2	19.7	16.7	12.1	9.1	7.1	6.6	7.1
67.5°	36.9	31.3	24.8	18.7	15.7	13.1	9.1	6.6	5.1	4.5	5.1
70°	28.8	23.7	18.7	13.6	11.6	9.6	6.6	5.1	3.5	3.0	3.5
72.5°	20.7	17.2	13.1	9.6	8.1	6.6	4.5	3.5	2.5	2.0	2.5
75°	14.1	11.6	8.6	6.1	5.1	4.5	3.0	2.0	1.5	1.5	1.5
77.5°	9.1	7.1	5.6	4.0	3.0	2.5	1.5	1.0	1.0	1.0	1.0
80°	5.1	4.0	3.0	2.0	1.5	1.5	1.0	1.0	0.5	0.5	0.5
82.5°	3.0	2.0	1.5	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5
85°	1.5	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	0.5	0.5	0.5	0.5	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°	437.1	437.1	437.1	437.1	437.1	437.1	437.1	437.1	437.1	437.1	437.1
2.5°	436.0	436.5	435.0	437.1	435.5	437.6	437.6	435.5	436.0	435.0	437.1
5°	435.0	435.0	434.0	435.5	433.5	435.5	435.0	431.5	432.5	430.5	432.5
7.5°	435.0	434.0	432.5	434.0	431.5	433.0	431.0	427.5	426.4	423.9	423.9
10°	436.5	435.0	433.0	433.5	431.0	431.5	428.5	423.4	421.9	418.9	417.9
12.5°	440.1	438.6	435.5	436.5	433.0	433.0	429.0	422.9	419.9	415.8	414.8
15°	445.1	442.6	439.1	439.6	436.0	434.0	429.0	421.9	417.9	412.3	410.8
17.5°	446.1	443.6	439.1	439.1	434.5	432.0	425.9	417.9	412.8	407.2	404.2
20°	440.6	438.1	433.0	432.5	428.5	424.9	418.4	410.3	405.2	399.2	396.6
22.5°	429.0	425.9	421.4	420.9	416.8	414.8	407.7	399.7	394.6	388.5	386.5
25°	411.8	410.3	405.7	405.2	401.7	399.2	393.1	385.5	381.0	374.9	372.9
27.5°	391.6	390.1	385.5	385.5	381.5	380.0	374.4	367.3	363.8	358.2	355.7
30°	367.3	365.3	362.8	362.3	358.7	357.2	352.2	345.6	342.1	337.5	336.5
32.5°	338.5	337.0	335.5	335.0	331.5	329.9	326.4	319.8	316.8	312.8	311.2
35°	305.2	304.2	302.7	302.1	300.6	299.1	295.6	290.5	289.0	286.0	284.5
37.5°	266.8	267.8	266.8	266.8	265.3	265.8	262.7	259.7	258.2	256.2	255.2
40°	225.3	227.4	228.9	228.9	228.4	230.4	229.9	227.4	226.9	225.9	225.3
42.5°	183.4	184.4	187.5	189.5	189.0	194.0	194.5	196.5	198.1	197.1	197.6
45°	139.5	142.5	146.5	148.5	151.1	157.6	161.2	165.2	168.8	170.8	170.3
47.5°	100.5	104.1	108.6	111.7	116.2	124.3	133.4	138.4	143.5	146.0	148.5
50°	72.8	76.3	81.9	86.4	89.4	100.5	110.1	116.7	122.3	125.8	128.3
52.5°	51.0	55.1	61.1	65.2	69.7	80.3	91.5	99.0	105.1	109.6	112.2
55°	35.4	39.9	45.5	49.5	54.6	65.7	76.3	84.4	90.9	95.0	98.0
57.5°	24.8	28.8	34.4	37.9	42.9	53.6	64.2	72.3	78.8	82.9	86.4
60°	16.7	20.7	26.3	29.8	33.9	44.5	54.1	62.7	68.7	72.8	76.3
62.5°	11.6	15.2	20.7	24.3	27.8	36.9	46.0	53.6	59.6	64.2	67.2
65°	9.1	12.1	16.7	19.7	23.2	30.8	38.4	45.0	51.0	55.6	57.6
67.5°	6.6	9.6	13.1	15.7	18.2	24.8	31.3	36.4	41.9	45.5	48.0
70°	4.5	6.6	9.6	11.6	13.6	18.7	23.7	28.3	32.3	34.9	36.9
72.5°	3.5	4.5	6.6	8.1	9.6	13.1	17.2	20.7	23.7	25.8	27.8
75°	2.0	3.0	4.5	5.6	6.6	9.1	11.6	14.1	16.2	17.7	18.7
77.5°	1.0	1.5	2.5	3.0	4.0	5.6	7.6	9.1	10.6	11.6	12.6
80°	1.0	1.0	1.5	1.5	2.0	3.0	4.0	5.1	6.1	7.1	7.6
82.5°	0.5	0.5	1.0	1.0	1.0	1.5	2.0	3.0	3.5	4.0	4.5
85°	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.5	2.0	2.5	2.5
87.5°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	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°	437.1	437.1	437.1	437.1	437.1	437.1	437.1	437.1
2.5°	435.5	436.5	436.0	437.1	435.5	435.0	436.0	434.5
5°	430.0	430.5	430.0	430.0	429.0	428.0	429.0	427.5
7.5°	421.4	421.4	419.9	419.9	417.9	416.8	416.8	416.3
10°	414.3	412.8	411.3	411.8	408.8	407.7	407.2	406.7
12.5°	410.8	409.8	407.2	407.2	404.2	403.2	402.7	402.2
15°	406.7	404.7	402.7	402.2	399.7	398.7	398.1	397.1
17.5°	399.7	398.1	395.6	395.6	393.1	392.6	391.6	391.1
20°	392.1	390.1	388.0	388.0	385.0	385.0	383.5	384.0
22.5°	381.5	380.0	377.9	377.9	375.4	374.9	373.4	372.9
25°	368.8	366.8	365.3	364.8	362.8	361.8	361.3	360.3
27.5°	352.2	350.7	349.1	348.1	345.6	345.1	343.6	344.1
30°	331.5	330.4	329.9	328.9	325.9	324.9	324.9	323.4
32.5°	308.7	307.2	306.2	304.7	302.1	301.6	300.1	300.6
35°	280.9	278.9	277.4	277.9	274.9	274.4	273.3	273.9
37.5°	252.1	250.1	248.1	247.6	245.1	245.1	243.5	243.5
40°	222.3	220.3	219.3	219.3	216.3	216.8	215.2	214.7
42.5°	195.5	193.5	193.0	192.5	191.0	190.5	189.0	189.5
45°	170.3	169.8	169.8	168.8	167.2	166.7	167.2	167.2
47.5°	148.0	148.5	148.0	148.0	147.0	148.0	147.0	147.5
50°	129.3	130.4	130.4	130.4	129.9	130.4	130.4	130.9
52.5°	113.7	115.2	114.7	115.2	114.7	115.7	115.2	115.7
55°	100.0	101.1	101.6	102.1	102.1	102.1	102.1	102.1
57.5°	87.4	88.9	89.4	89.9	89.9	90.9	89.9	89.9
60°	77.3	78.8	79.3	79.8	79.8	80.3	79.3	79.8
62.5°	68.2	69.7	69.7	70.2	70.2	70.2	69.2	69.7
65°	59.1	59.6	60.1	60.1	59.6	59.6	59.1	59.6
67.5°	49.0	49.5	49.0	49.0	48.5	48.5	47.5	48.0
70°	37.9	37.9	38.4	37.9	37.4	37.9	37.4	36.9
72.5°	28.3	28.3	28.3	27.8	27.8	27.3	27.8	27.8
75°	19.2	19.2	19.7	19.7	19.7	19.7	19.2	19.2
77.5°	12.6	12.6	12.6	12.6	13.1	12.6	12.6	12.6
80°	8.1	8.1	8.6	8.6	8.1	8.1	8.1	8.1
82.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
85°	3.0	3.0	3.0	3.0	2.5	2.5	2.5	2.5
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0
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)