

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: P252447

Luminaire Tested: **LD6B10D010 EU6B10209030 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252447
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 EU6B10209030 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 771.0 lumens
Efficiency: N/A
Efficacy: 76.7 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

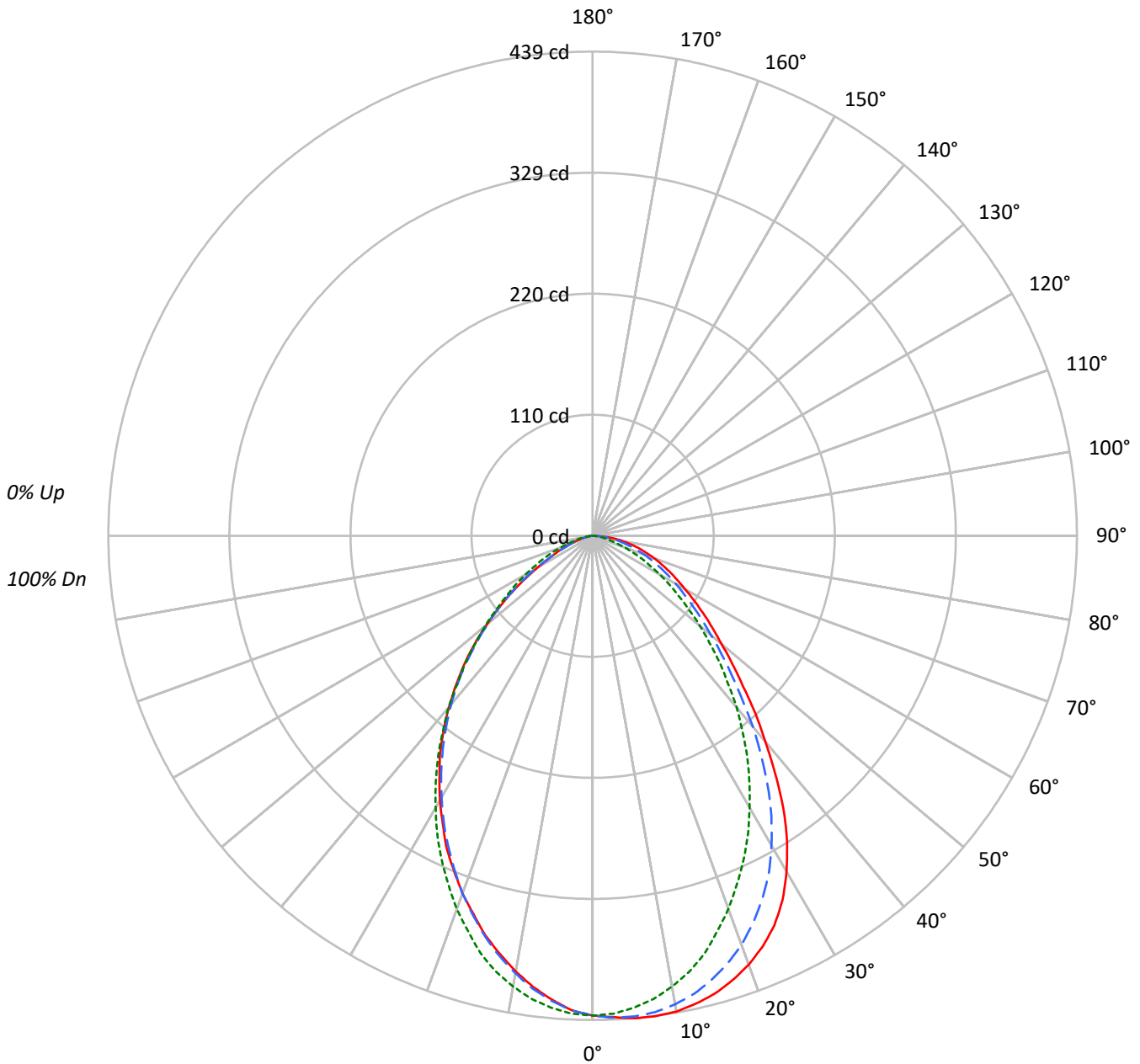
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88																			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77																			
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67																			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59																			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53																			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47																			
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43																			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39																			
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35																			
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	28380	28380	28380
5°	28763	28128	27656
10°	29016	27493	26572
15°	29009	26483	25342
20°	28729	24994	23946
25°	28053	23309	22524
30°	26487	21432	20845
35°	24013	19441	19194
40°	20738	17289	17238
45°	17779	15048	15159
50°	15448	12880	12697
55°	13877	10851	10169
60°	12618	9147	7490
65°	11840	7549	5496
70°	11292	5875	4025
75°	10814	4260	2748
80°	10219	2968	1803
85°	9057	1797	898



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.7	5.3
10°-20°	111.4	14.5
20°-30°	154.7	20.1
30°-40°	160.2	20.8
40°-50°	131.7	17.1
50°-60°	90.5	11.7
60°-70°	52.0	6.7
70°-80°	23.9	3.1
80°-90°	5.8	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°	306.8	39.8
0°-40°	467.1	60.6
0°-60°	689.2	89.4
0°-90°	771.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	771.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	435	435	435	435	435	
5°	439	437	430	424	422	42
15°	430	417	392	376	375	121
25°	390	364	324	310	313	178
35°	302	277	244	237	241	187
45°	193	178	163	161	164	150
55°	122	111	95	90	89	110
65°	77	67	49	34	36	76
75°	43	34	17	11	11	45
85°	12	8	2	1	1	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°	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0
2.5°	436.8	440.4	438.0	437.4	438.6	438.6	438.6	436.8	438.0	436.2	437.4
5°	439.2	442.2	439.8	438.6	439.8	440.4	438.6	437.4	439.2	436.8	437.4
7.5°	439.2	442.2	439.8	439.2	439.8	439.8	439.2	436.8	438.0	435.6	435.6
10°	438.0	440.4	438.0	436.8	437.4	436.8	436.8	433.7	434.4	431.3	431.3
12.5°	434.4	437.4	434.4	433.1	433.1	433.1	431.3	428.9	429.5	425.9	425.3
15°	429.5	431.9	428.9	427.7	427.7	427.1	425.9	422.3	422.3	418.6	416.8
17.5°	422.3	424.7	422.3	420.5	419.9	418.6	417.4	413.8	412.6	408.4	406.6
20°	413.8	415.6	413.2	411.4	410.2	409.0	406.6	402.9	401.7	397.5	394.5
22.5°	402.9	405.4	401.7	399.9	398.7	396.9	394.5	390.9	389.0	383.6	380.0
25°	389.7	390.9	387.8	386.0	383.6	382.4	380.6	375.8	373.9	367.9	363.7
27.5°	372.7	373.9	370.3	369.1	366.1	364.9	362.5	358.2	355.8	349.8	345.6
30°	351.6	352.8	350.4	348.6	346.2	343.7	341.9	337.7	334.1	328.0	324.4
32.5°	328.0	329.8	327.4	325.0	320.8	321.4	318.4	314.1	311.1	305.7	301.5
35°	301.5	302.7	299.6	299.0	296.6	294.2	291.2	288.2	286.3	280.3	276.7
37.5°	271.8	274.9	271.8	269.4	268.2	266.4	264.6	260.4	259.2	255.5	250.7
40°	243.5	245.3	243.5	241.0	239.2	239.2	236.8	234.4	231.4	227.7	225.9
42.5°	218.1	216.9	216.3	215.1	212.6	212.0	211.4	208.4	206.6	203.0	200.0
45°	192.7	193.3	192.1	191.5	189.7	188.5	187.3	184.9	184.3	180.6	178.2
47.5°	171.6	171.0	169.8	169.8	168.5	167.3	166.1	164.3	163.7	160.7	158.3
50°	152.2	152.8	152.2	151.6	149.8	149.2	148.0	146.8	145.6	142.6	140.2
52.5°	136.5	135.9	135.3	135.3	133.5	132.9	131.7	130.5	129.3	126.3	124.4
55°	122.0	122.0	121.4	120.8	119.0	118.4	117.8	116.6	114.8	112.4	110.6
57.5°	108.7	108.7	108.1	107.5	106.3	106.3	105.1	103.9	102.7	100.3	97.9
60°	96.7	97.3	96.7	96.1	94.8	94.8	94.2	92.4	91.8	88.8	87.0
62.5°	86.4	86.4	86.4	85.8	85.2	84.0	84.0	82.2	81.0	79.1	76.7
65°	76.7	76.7	76.7	76.1	74.9	74.3	73.7	72.5	71.3	69.5	67.1
67.5°	67.7	67.7	67.7	67.1	65.8	65.2	64.6	64.0	62.2	60.4	58.0
70°	59.2	59.2	58.6	58.0	57.4	56.8	56.2	55.0	53.8	51.3	49.5
72.5°	50.7	50.7	50.7	49.5	48.9	48.9	47.7	47.1	45.9	43.5	41.7
75°	42.9	42.3	42.3	41.7	41.1	40.5	39.9	39.3	37.5	36.2	33.8
77.5°	35.0	35.0	34.4	33.8	33.8	33.2	32.6	31.4	30.8	29.0	27.2
80°	27.2	27.2	27.2	27.2	26.6	26.0	26.0	24.8	24.2	22.4	21.1
82.5°	20.5	19.9	19.9	19.9	19.3	18.7	18.7	18.1	17.5	16.3	15.1
85°	12.1	11.5	11.5	11.5	10.9	10.9	10.3	10.3	9.7	8.5	8.5
87.5°	3.6	3.6	4.2	4.2	3.6	3.6	3.6	3.6	3.6	3.0	3.0
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°	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0
2.5°	436.2	438.0	435.6	435.0	437.4	436.2	435.6	434.4	435.0	433.7	431.9
5°	435.6	438.0	435.0	433.1	436.2	434.4	433.1	431.9	431.9	429.5	428.3
7.5°	433.7	435.0	431.9	430.1	431.9	430.1	428.9	427.1	426.5	423.5	421.7
10°	428.9	430.1	426.5	424.1	425.9	423.5	421.7	419.9	418.6	415.0	412.6
12.5°	422.3	422.9	418.6	415.6	416.8	415.0	412.0	409.6	408.4	404.8	401.7
15°	413.2	413.8	409.0	404.8	406.0	403.5	399.9	397.5	395.7	392.1	387.8
17.5°	402.3	401.7	396.3	392.1	392.7	389.7	386.0	382.4	380.0	375.8	372.7
20°	390.3	388.4	382.4	377.6	378.2	374.5	370.3	366.7	363.7	360.0	355.8
22.5°	375.2	372.7	367.3	361.3	361.9	358.8	352.8	349.8	346.8	341.9	338.3
25°	358.8	355.2	349.8	343.7	343.7	340.1	335.3	331.7	328.6	323.8	319.6
27.5°	339.5	337.7	330.4	325.6	325.0	321.4	317.2	312.9	309.3	305.1	300.8
30°	318.4	315.3	309.9	304.5	303.3	300.2	296.0	291.2	288.8	284.5	280.9
32.5°	296.0	293.0	287.0	281.5	280.9	278.5	274.9	270.0	267.6	264.6	262.2
35°	270.6	269.4	263.4	259.2	259.2	256.7	253.1	248.9	247.1	244.1	241.0
37.5°	246.5	244.7	239.2	235.6	235.6	232.6	229.0	227.1	225.3	222.9	221.1
40°	221.1	219.9	215.7	212.0	212.6	210.2	207.8	205.4	204.2	203.0	201.2
42.5°	197.5	196.3	193.3	190.3	190.3	188.5	186.1	184.3	183.0	181.2	180.6
45°	176.4	174.6	172.2	169.2	169.2	167.3	166.1	164.9	164.3	163.1	161.3
47.5°	155.9	154.7	152.2	149.2	149.2	149.2	146.8	145.0	145.0	143.8	143.2
50°	138.3	136.5	134.7	132.3	132.3	131.1	129.3	127.5	127.5	126.9	125.7
52.5°	122.0	120.8	118.4	116.0	116.0	114.8	113.0	112.4	111.8	109.9	109.3
55°	108.1	106.9	105.1	102.1	101.5	100.9	99.1	97.9	97.3	95.4	95.4
57.5°	95.4	94.2	91.2	89.4	88.8	87.6	85.8	84.6	84.0	82.8	81.6
60°	84.6	82.8	80.3	77.9	77.3	76.1	74.3	73.1	72.5	70.1	68.9
62.5°	74.3	72.5	70.1	67.7	67.1	65.8	63.4	62.2	61.0	58.6	57.4
65°	64.6	62.8	60.4	58.0	56.8	56.2	53.8	52.0	50.7	48.9	46.5
67.5°	55.6	53.8	51.3	48.3	48.3	46.5	44.7	42.9	41.1	39.3	37.5
70°	47.1	45.3	42.9	40.5	39.9	38.7	36.9	34.4	33.2	30.8	29.0
72.5°	39.3	37.5	35.0	32.6	32.0	30.8	29.0	26.6	24.8	23.0	21.1
75°	32.0	30.2	27.8	26.0	25.4	24.2	22.4	19.9	18.1	16.9	15.1
77.5°	25.4	23.6	21.7	19.9	19.3	18.1	16.3	15.1	13.3	12.1	10.3
80°	19.3	18.1	16.3	15.1	14.5	13.3	12.1	10.3	9.1	7.9	7.2
82.5°	13.9	12.7	11.5	9.7	9.7	8.5	7.9	6.6	5.4	4.8	4.2
85°	7.9	6.6	6.0	5.4	4.8	4.8	4.2	3.6	3.0	2.4	2.4
87.5°	2.4	2.4	1.8	1.8	1.8	1.8	1.2	1.2	1.2	1.2	1.2
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°	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0
2.5°	431.9	432.5	431.3	432.5	431.3	431.9	430.7	431.9	430.7	431.9	429.5
5°	427.7	427.7	425.9	427.1	425.9	426.5	424.1	424.7	423.5	424.7	422.3
7.5°	420.5	421.1	418.0	419.3	417.4	417.4	415.6	416.2	414.4	415.0	413.2
10°	412.0	411.4	408.4	409.6	407.2	407.2	405.4	405.4	402.9	403.5	401.1
12.5°	399.9	399.3	395.7	396.9	394.5	394.5	392.7	392.7	390.3	391.5	389.0
15°	386.0	385.4	381.8	382.4	380.0	380.0	377.6	378.2	376.4	377.6	375.2
17.5°	370.3	369.7	366.1	366.7	363.7	364.3	362.5	361.9	360.7	361.3	359.4
20°	354.0	352.8	349.2	349.8	348.6	346.8	345.6	346.2	344.9	346.2	344.3
22.5°	337.1	334.7	331.7	331.7	330.4	330.4	328.6	329.8	327.4	329.2	328.0
25°	317.8	315.9	313.5	314.7	312.3	312.3	310.5	311.1	309.9	311.1	309.9
27.5°	299.0	297.8	294.2	295.4	293.6	294.2	292.4	293.0	292.4	293.6	292.4
30°	279.1	278.5	276.1	276.1	275.5	274.9	274.3	274.3	273.7	275.5	274.3
32.5°	260.4	258.6	256.1	258.0	254.9	256.7	255.5	256.7	255.5	256.7	256.1
35°	241.0	240.4	237.4	238.0	237.4	237.4	236.8	236.8	236.8	238.6	238.6
37.5°	220.5	219.9	218.1	218.7	217.5	216.9	216.9	218.1	218.1	219.3	219.3
40°	200.6	201.2	199.4	199.4	198.8	198.8	198.8	200.0	199.4	200.6	200.0
42.5°	180.6	180.6	178.8	179.4	178.8	179.4	179.4	180.6	180.6	181.2	180.6
45°	161.9	161.9	161.3	161.9	160.7	161.3	160.7	161.9	161.3	161.9	161.9
47.5°	143.2	143.2	143.2	142.6	142.6	142.6	142.6	142.6	142.0	143.2	142.6
50°	125.7	126.3	125.7	125.7	125.1	125.7	125.1	125.1	123.8	124.4	124.4
52.5°	109.9	109.9	108.7	108.7	108.7	108.1	108.1	108.1	107.5	107.5	106.3
55°	94.8	94.8	93.6	93.6	93.0	92.4	91.8	91.8	90.0	90.0	88.2
57.5°	81.0	80.3	78.5	78.5	77.3	76.7	76.1	75.5	74.3	73.1	72.5
60°	68.3	67.1	65.8	65.2	64.0	62.8	61.6	60.4	59.2	58.6	58.0
62.5°	56.2	54.4	53.2	52.6	51.3	49.5	48.3	47.1	45.9	45.3	44.1
65°	45.3	43.5	41.7	41.1	39.9	38.7	36.9	35.6	34.4	33.8	33.8
67.5°	35.6	33.8	31.4	31.4	30.2	29.0	27.8	26.6	26.0	26.6	26.6
70°	26.6	25.4	23.6	23.0	21.7	20.5	19.9	19.9	19.9	20.5	19.9
72.5°	19.9	18.1	16.9	16.3	15.7	15.1	15.1	15.1	14.5	15.1	15.1
75°	13.9	12.7	11.5	11.5	10.9	10.9	10.9	10.9	10.9	10.9	10.9
77.5°	9.7	8.5	7.9	7.9	7.9	7.2	7.2	7.2	7.2	7.2	7.2
80°	6.0	6.0	5.4	5.4	4.8	4.8	4.8	4.8	4.8	4.8	4.8
82.5°	3.6	3.6	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
85°	1.8	1.8	1.8	1.8	1.8	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2
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°	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0
2.5°	429.5	431.3	428.9	430.7	430.1	429.5	428.3	430.7
5°	422.3	422.9	420.5	422.9	422.3	421.1	419.9	422.3
7.5°	412.0	413.8	410.8	413.2	412.6	411.4	410.2	412.6
10°	400.5	402.3	399.9	401.7	401.7	400.5	398.7	401.1
12.5°	387.8	389.0	386.6	389.0	388.4	387.2	386.6	388.4
15°	373.9	375.8	373.3	375.2	374.5	373.9	373.3	375.2
17.5°	358.8	360.7	358.8	360.7	360.7	358.8	358.2	359.4
20°	343.7	344.9	343.1	344.9	344.3	344.3	343.1	344.9
22.5°	326.8	328.6	327.4	328.6	328.0	328.0	327.4	328.6
25°	309.9	311.7	309.9	311.7	311.1	311.1	309.9	312.9
27.5°	293.0	294.2	292.4	294.8	294.2	293.0	293.6	294.2
30°	274.9	276.1	274.9	276.7	276.7	276.7	275.5	276.7
32.5°	256.7	258.6	256.7	258.6	258.0	258.0	257.4	258.6
35°	238.6	239.2	238.0	239.8	239.8	240.4	239.2	241.0
37.5°	219.9	220.5	219.9	220.5	221.7	219.9	221.1	221.7
40°	200.6	201.8	201.2	201.8	201.8	202.4	201.8	202.4
42.5°	181.2	182.4	181.2	183.0	182.4	182.4	183.0	183.0
45°	161.3	163.1	161.9	163.1	163.7	163.1	163.1	164.3
47.5°	142.6	143.8	143.2	143.8	143.8	143.8	143.8	145.0
50°	123.8	124.4	124.4	125.1	125.1	125.7	124.4	125.1
52.5°	105.1	106.3	106.3	106.3	105.7	106.3	106.3	106.3
55°	88.2	88.8	87.6	88.8	88.8	88.2	88.2	89.4
57.5°	71.9	71.9	71.9	71.9	71.9	71.3	71.9	71.9
60°	56.8	57.4	56.8	56.8	56.8	56.8	56.2	57.4
62.5°	44.1	44.1	43.5	44.1	44.1	44.1	44.7	44.7
65°	34.4	35.0	34.4	35.0	35.0	35.0	35.0	35.6
67.5°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
70°	20.5	20.5	20.5	21.1	20.5	20.5	20.5	21.1
72.5°	15.1	15.1	15.1	15.1	15.1	15.1	15.7	15.7
75°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
77.5°	7.2	7.2	7.2	7.9	7.2	7.9	7.2	7.2
80°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
82.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	1.2	1.2	1.2	1.2	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



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













(END OF REPORT)