

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: P252566

Luminaire Tested: **LD6B15D010 EU6B10209040 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252566
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: LD6B15D010 EU6B10209040 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1268.0 lumens
Efficiency: N/A
Efficacy: 88.1 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

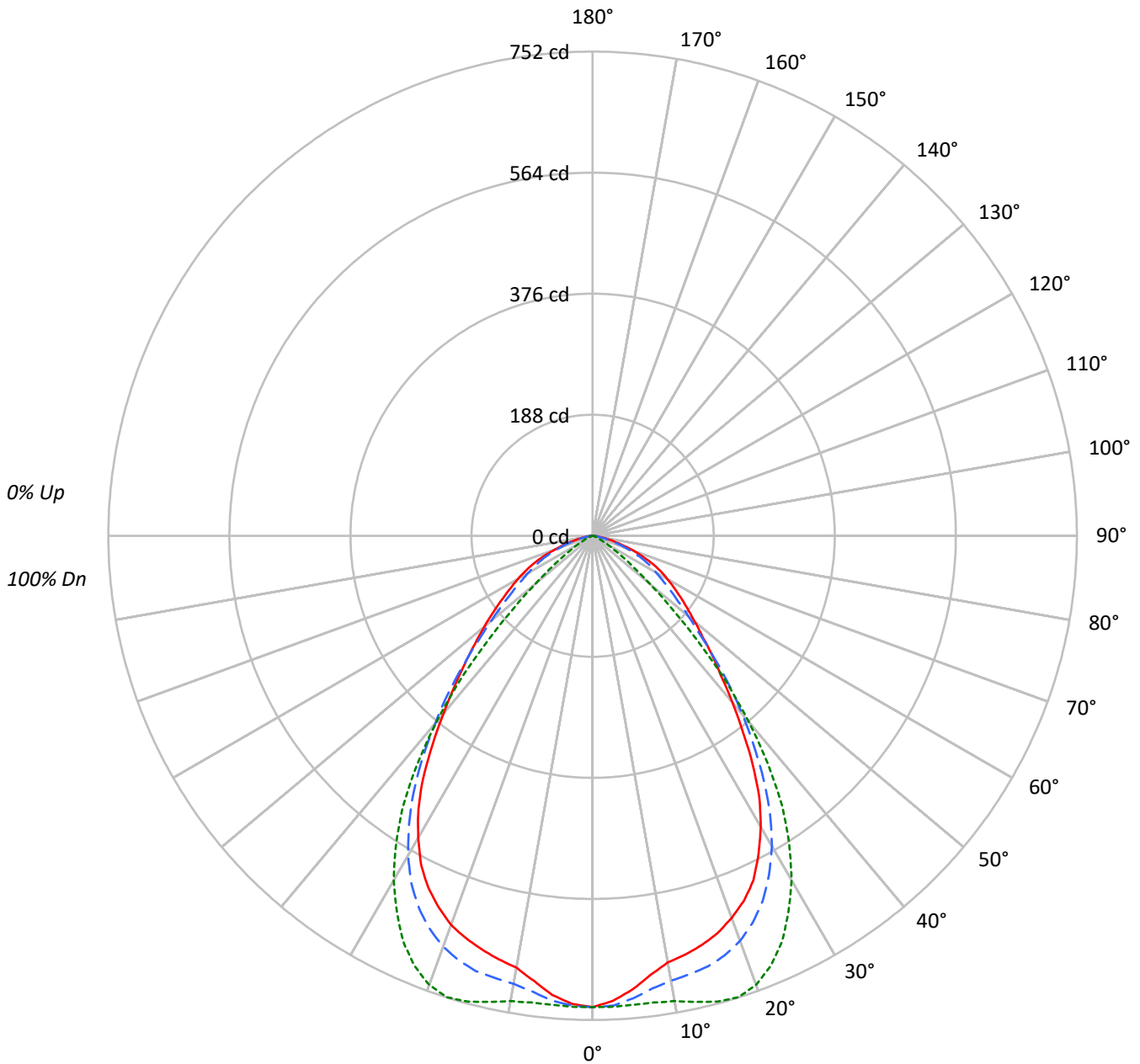
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
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								
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°	47763	47763	47763
5°	46334	47886	46891
10°	44571	48612	45134
15°	44416	50589	44929
20°	43837	51529	44656
25°	42522	50080	43436
30°	39339	46541	40808
35°	34510	40913	36533
40°	28760	32073	30634
45°	24210	21165	25843
50°	20959	11601	22248
55°	18961	6165	19450
60°	17445	3197	17445
65°	15808	1698	15422
70°	12761	973	11788
75°	8747	630	8117
80°	5711	301	5072
85°	3818	599	3144



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	5.4
10°-20°	197.4	15.6
20°-30°	291.7	23.0
30°-40°	294.6	23.2
40°-50°	203.0	16.0
50°-60°	116.6	9.2
60°-70°	67.9	5.4
70°-80°	24.8	2.0
80°-90°	3.8	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°	557.3	44.0
0°-40°	851.9	67.2
0°-60°	1171.6	92.4
0°-90°	1268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1268.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	732	732	732	732	732	
5°	708	721	731	724	716	66
15°	658	692	749	700	665	185
25°	591	625	696	638	603	269
35°	433	463	514	484	459	269
45°	262	266	229	283	280	204
55°	167	146	54	152	171	150
65°	102	86	11	86	100	100
75°	35	28	2	27	32	39
85°	5	2	1	3	4	6
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°	732.1	732.1	732.1	732.1	732.1	732.1	732.1	732.1	732.1	732.1	732.1
2.5°	722.8	723.6	724.5	723.6	724.5	727.8	725.3	727.0	727.0	727.8	730.4
5°	707.5	707.5	709.2	708.4	710.9	714.3	711.8	714.3	715.2	716.8	721.1
7.5°	688.1	688.1	688.9	688.9	692.3	695.7	694.0	697.4	700.8	704.2	709.2
10°	672.8	674.5	674.5	675.4	678.8	683.0	682.1	686.4	689.8	694.8	701.6
12.5°	666.1	666.9	666.9	668.6	672.0	676.2	675.4	679.6	684.7	690.6	697.4
15°	657.6	659.3	658.4	660.1	663.5	667.8	666.9	671.1	677.1	683.0	692.3
17.5°	646.6	647.4	648.3	648.3	651.7	655.1	655.1	659.3	666.1	672.8	683.0
20°	631.4	633.1	633.1	633.9	636.4	641.5	640.7	644.9	651.7	658.4	669.5
22.5°	613.6	614.4	614.4	615.3	619.5	622.1	622.9	626.3	632.2	639.8	650.0
25°	590.7	591.6	590.7	593.3	595.0	600.1	598.4	602.6	609.4	615.3	625.4
27.5°	557.7	559.4	559.4	560.3	564.5	568.7	568.7	573.0	578.9	583.1	593.3
30°	522.2	524.7	522.2	526.4	528.1	531.5	534.0	536.6	541.7	547.6	556.9
32.5°	481.6	480.7	481.6	483.3	488.3	490.9	492.6	495.1	500.2	505.3	512.9
35°	433.3	435.0	435.9	439.2	439.2	443.5	444.3	446.0	453.6	457.0	462.9
37.5°	382.5	384.2	385.1	386.8	390.2	391.9	394.4	396.9	402.0	407.9	411.3
40°	337.7	337.7	338.5	340.2	342.8	343.6	346.2	349.5	352.9	358.0	361.4
42.5°	295.4	296.2	295.4	297.1	299.6	303.0	302.1	306.4	307.2	310.6	313.1
45°	262.4	262.4	260.7	262.4	262.4	265.7	264.9	266.6	265.7	267.4	265.7
47.5°	231.0	231.9	231.0	231.9	231.9	231.9	232.7	231.0	231.9	229.4	224.3
50°	206.5	207.4	205.7	206.5	205.7	204.8	205.7	203.1	202.3	198.9	193.8
52.5°	185.3	184.5	183.7	183.7	183.7	182.8	182.0	179.4	176.9	173.5	167.6
55°	166.7	165.9	165.0	165.0	163.3	162.5	162.5	160.0	157.4	153.2	146.4
57.5°	149.8	149.0	148.1	148.1	147.3	145.6	145.6	143.0	139.6	134.6	128.6
60°	133.7	133.7	133.7	132.9	132.9	131.2	131.2	128.6	125.3	120.2	113.4
62.5°	119.3	118.5	118.5	118.5	118.5	117.6	116.8	115.1	111.7	106.6	100.7
65°	102.4	102.4	102.4	102.4	101.6	101.6	101.6	99.0	97.3	92.3	86.3
67.5°	83.8	83.8	83.8	83.8	82.9	83.8	83.8	82.1	80.4	75.3	70.2
70°	66.9	66.0	65.2	66.0	65.2	65.2	66.0	64.3	63.5	59.2	54.2
72.5°	49.1	49.9	49.1	49.1	49.1	48.2	49.1	48.2	46.5	43.2	39.8
75°	34.7	35.5	35.5	34.7	34.7	34.7	33.9	33.9	32.2	29.6	27.9
77.5°	23.7	23.7	23.7	23.7	22.9	22.9	22.9	22.0	21.2	19.5	17.8
80°	15.2	15.2	15.2	15.2	14.4	14.4	14.4	13.5	13.5	11.8	10.2
82.5°	9.3	9.3	9.3	9.3	9.3	9.3	8.5	8.5	7.6	6.8	5.9
85°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	4.2	4.2	3.4	2.5
87.5°	1.7	1.7	2.5	2.5	2.5	2.5	2.5	2.5	1.7	1.7	1.7
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°	732.1	732.1	732.1	732.1	732.1	732.1	732.1	732.1	732.1	732.1	732.1
2.5°	728.7	729.5	729.5	729.5	732.1	732.9	730.4	727.8	732.9	732.1	733.8
5°	720.2	722.8	724.5	725.3	727.8	729.5	727.0	726.2	730.4	731.2	732.1
7.5°	710.1	714.3	718.5	720.2	723.6	725.3	724.5	724.5	729.5	731.2	731.2
10°	703.3	709.2	714.3	718.5	722.8	725.3	725.3	726.2	732.1	733.8	735.5
12.5°	701.6	709.2	716.0	721.9	725.3	729.5	730.4	732.9	738.9	741.4	741.4
15°	697.4	707.5	716.0	723.6	728.7	733.8	735.5	740.5	747.3	749.0	750.7
17.5°	689.8	699.9	710.1	719.4	726.2	730.4	735.5	740.5	749.0	751.5	752.4
20°	676.2	688.1	698.2	707.5	714.3	720.2	725.3	731.2	738.9	742.2	743.1
22.5°	655.9	667.8	677.9	688.1	694.8	699.9	705.0	711.8	719.4	722.8	722.8
25°	631.4	642.4	653.4	661.0	667.8	673.7	676.2	683.8	691.5	695.7	695.7
27.5°	600.1	610.2	620.4	628.8	633.1	638.1	642.4	649.1	655.1	658.4	661.8
30°	560.3	570.4	579.7	588.2	593.3	598.4	602.6	607.7	613.6	617.8	618.7
32.5°	517.1	525.6	534.9	543.3	548.4	550.1	554.3	559.4	564.5	567.9	568.7
35°	469.7	475.6	481.6	489.2	494.3	494.3	498.5	501.9	506.1	513.7	512.0
37.5°	413.9	422.3	426.6	429.1	432.5	435.9	436.7	440.9	446.0	447.7	450.3
40°	361.4	363.9	366.5	366.5	369.8	369.8	369.8	370.7	375.8	376.6	380.0
42.5°	308.9	308.9	306.4	303.8	304.7	303.8	299.6	299.6	302.1	305.5	305.5
45°	259.8	253.9	246.3	240.4	236.1	234.4	229.4	229.4	228.5	229.4	232.7
47.5°	218.4	208.2	195.5	183.7	179.4	176.0	168.4	165.0	163.3	164.2	165.9
50°	183.7	172.7	158.3	143.9	136.3	132.0	122.7	116.8	115.9	114.3	117.6
52.5°	158.3	144.7	129.5	112.6	104.9	98.2	88.0	82.9	79.6	79.6	80.4
55°	136.3	121.9	104.9	88.0	80.4	75.3	65.2	58.4	55.0	54.2	56.7
57.5°	117.6	104.1	87.2	70.2	62.6	56.7	46.5	40.6	38.1	36.4	37.2
60°	103.3	89.7	72.8	56.7	49.9	43.2	34.7	27.9	24.5	24.5	25.4
62.5°	89.7	77.0	61.8	46.5	40.6	34.7	25.4	19.5	16.9	16.1	16.9
65°	76.2	64.3	51.6	38.9	33.0	27.9	20.3	15.2	11.8	11.0	11.8
67.5°	61.8	52.5	41.5	31.3	26.2	22.0	15.2	11.0	8.5	7.6	8.5
70°	48.2	39.8	31.3	22.9	19.5	16.1	11.0	8.5	5.9	5.1	5.9
72.5°	34.7	28.8	22.0	16.1	13.5	11.0	7.6	5.9	4.2	3.4	4.2
75°	23.7	19.5	14.4	10.2	8.5	7.6	5.1	3.4	2.5	2.5	2.5
77.5°	15.2	11.8	9.3	6.8	5.1	4.2	2.5	1.7	1.7	1.7	1.7
80°	8.5	6.8	5.1	3.4	2.5	2.5	1.7	1.7	0.8	0.8	0.8
82.5°	5.1	3.4	2.5	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8
85°	2.5	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.8	0.8	0.8	0.8	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°	732.1	732.1	732.1	732.1	732.1	732.1	732.1	732.1	732.1	732.1	732.1
2.5°	730.4	731.2	728.7	732.1	729.5	732.9	732.9	729.5	730.4	728.7	732.1
5°	728.7	728.7	727.0	729.5	726.2	729.5	728.7	722.8	724.5	721.1	724.5
7.5°	728.7	727.0	724.5	727.0	722.8	725.3	721.9	716.0	714.3	710.1	710.1
10°	731.2	728.7	725.3	726.2	721.9	722.8	717.7	709.2	706.7	701.6	699.9
12.5°	737.2	734.6	729.5	731.2	725.3	725.3	718.5	708.4	703.3	696.5	694.8
15°	745.6	741.4	735.5	736.3	730.4	727.0	718.5	706.7	699.9	690.6	688.1
17.5°	747.3	743.1	735.5	735.5	727.8	723.6	713.5	699.9	691.5	682.1	677.1
20°	738.0	733.8	725.3	724.5	717.7	711.8	700.8	687.2	678.8	668.6	664.4
22.5°	718.5	713.5	705.8	705.0	698.2	694.8	683.0	669.5	661.0	650.8	647.4
25°	689.8	687.2	679.6	678.8	672.8	668.6	658.4	645.8	638.1	628.0	624.6
27.5°	655.9	653.4	645.8	645.8	639.0	636.4	627.1	615.3	609.4	600.1	595.8
30°	615.3	611.9	607.7	606.8	600.9	598.4	589.9	578.9	573.0	565.4	563.7
32.5°	567.0	564.5	562.0	561.1	555.2	552.7	546.7	535.7	530.7	523.9	521.3
35°	511.2	509.5	507.0	506.1	503.6	501.0	495.1	486.6	484.1	479.0	476.5
37.5°	446.9	448.6	446.9	446.9	444.3	445.2	440.1	435.0	432.5	429.1	427.4
40°	377.5	380.9	383.4	383.4	382.5	385.9	385.1	380.9	380.0	378.3	377.5
42.5°	307.2	308.9	314.0	317.4	316.5	325.0	325.8	329.2	331.8	330.1	330.9
45°	233.6	238.7	245.4	248.8	253.1	264.1	270.0	276.8	282.7	286.1	285.2
47.5°	168.4	174.3	182.0	187.0	194.7	208.2	223.4	231.9	240.4	244.6	248.8
50°	121.9	127.8	137.1	144.7	149.8	168.4	184.5	195.5	204.8	210.7	215.0
52.5°	85.5	92.3	102.4	109.2	116.8	134.6	153.2	165.9	176.0	183.7	187.9
55°	59.2	66.9	76.2	82.9	91.4	110.0	127.8	141.3	152.3	159.1	164.2
57.5°	41.5	48.2	57.6	63.5	71.9	89.7	107.5	121.0	132.0	138.8	144.7
60°	27.9	34.7	44.0	49.9	56.7	74.5	90.6	104.9	115.1	121.9	127.8
62.5°	19.5	25.4	34.7	40.6	46.5	61.8	77.0	89.7	99.9	107.5	112.6
65°	15.2	20.3	27.9	33.0	38.9	51.6	64.3	75.3	85.5	93.1	96.5
67.5°	11.0	16.1	22.0	26.2	30.5	41.5	52.5	60.9	70.2	76.2	80.4
70°	7.6	11.0	16.1	19.5	22.9	31.3	39.8	47.4	54.2	58.4	61.8
72.5°	5.9	7.6	11.0	13.5	16.1	22.0	28.8	34.7	39.8	43.2	46.5
75°	3.4	5.1	7.6	9.3	11.0	15.2	19.5	23.7	27.1	29.6	31.3
77.5°	1.7	2.5	4.2	5.1	6.8	9.3	12.7	15.2	17.8	19.5	21.2
80°	1.7	1.7	2.5	2.5	3.4	5.1	6.8	8.5	10.2	11.8	12.7
82.5°	0.8	0.8	1.7	1.7	1.7	2.5	3.4	5.1	5.9	6.8	7.6
85°	0.8	0.8	0.8	0.8	0.8	1.7	1.7	2.5	3.4	4.2	4.2
87.5°	0.0	0.0	0.8	0.8	0.8	0.8	0.8	1.7	1.7	1.7	2.5
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°	732.1	732.1	732.1	732.1	732.1	732.1	732.1	732.1
2.5°	729.5	731.2	730.4	732.1	729.5	728.7	730.4	727.8
5°	720.2	721.1	720.2	720.2	718.5	716.8	718.5	716.0
7.5°	705.8	705.8	703.3	703.3	699.9	698.2	698.2	697.4
10°	694.0	691.5	688.9	689.8	684.7	683.0	682.1	681.3
12.5°	688.1	686.4	682.1	682.1	677.1	675.4	674.5	673.7
15°	681.3	677.9	674.5	673.7	669.5	667.8	666.9	665.2
17.5°	669.5	666.9	662.7	662.7	658.4	657.6	655.9	655.1
20°	656.8	653.4	650.0	650.0	644.9	644.9	642.4	643.2
22.5°	639.0	636.4	633.1	633.1	628.8	628.0	625.4	624.6
25°	617.8	614.4	611.9	611.1	607.7	606.0	605.1	603.4
27.5°	589.9	587.4	584.8	583.1	578.9	578.0	575.5	576.4
30°	555.2	553.5	552.7	551.0	545.9	544.2	544.2	541.7
32.5°	517.1	514.6	512.9	510.3	506.1	505.3	502.7	503.6
35°	470.6	467.2	464.6	465.5	460.4	459.6	457.9	458.7
37.5°	422.3	418.9	415.6	414.7	410.5	410.5	407.9	407.9
40°	372.4	369.0	367.3	367.3	362.2	363.1	360.5	359.7
42.5°	327.5	324.1	323.3	322.5	319.9	319.1	316.5	317.4
45°	285.2	284.4	284.4	282.7	280.1	279.3	280.1	280.1
47.5°	248.0	248.8	248.0	248.0	246.3	248.0	246.3	247.1
50°	216.7	218.4	218.4	218.4	217.5	218.4	218.4	219.2
52.5°	190.4	193.0	192.1	193.0	192.1	193.8	193.0	193.8
55°	167.6	169.3	170.1	171.0	171.0	171.0	171.0	171.0
57.5°	146.4	149.0	149.8	150.6	150.6	152.3	150.6	150.6
60°	129.5	132.0	132.9	133.7	133.7	134.6	132.9	133.7
62.5°	114.3	116.8	116.8	117.6	117.6	117.6	115.9	116.8
65°	99.0	99.9	100.7	100.7	99.9	99.9	99.0	99.9
67.5°	82.1	82.9	82.1	82.1	81.2	81.2	79.6	80.4
70°	63.5	63.5	64.3	63.5	62.6	63.5	62.6	61.8
72.5°	47.4	47.4	47.4	46.5	46.5	45.7	46.5	46.5
75°	32.2	32.2	33.0	33.0	33.0	33.0	32.2	32.2
77.5°	21.2	21.2	21.2	21.2	22.0	21.2	21.2	21.2
80°	13.5	13.5	14.4	14.4	13.5	13.5	13.5	13.5
82.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
85°	5.1	5.1	5.1	5.1	4.2	4.2	4.2	4.2
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	1.7	1.7
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)