

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: P252662

Luminaire Tested: **LD6B15D010 EU6B10208030 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B15D010 EU6B10208030 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1369.0 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

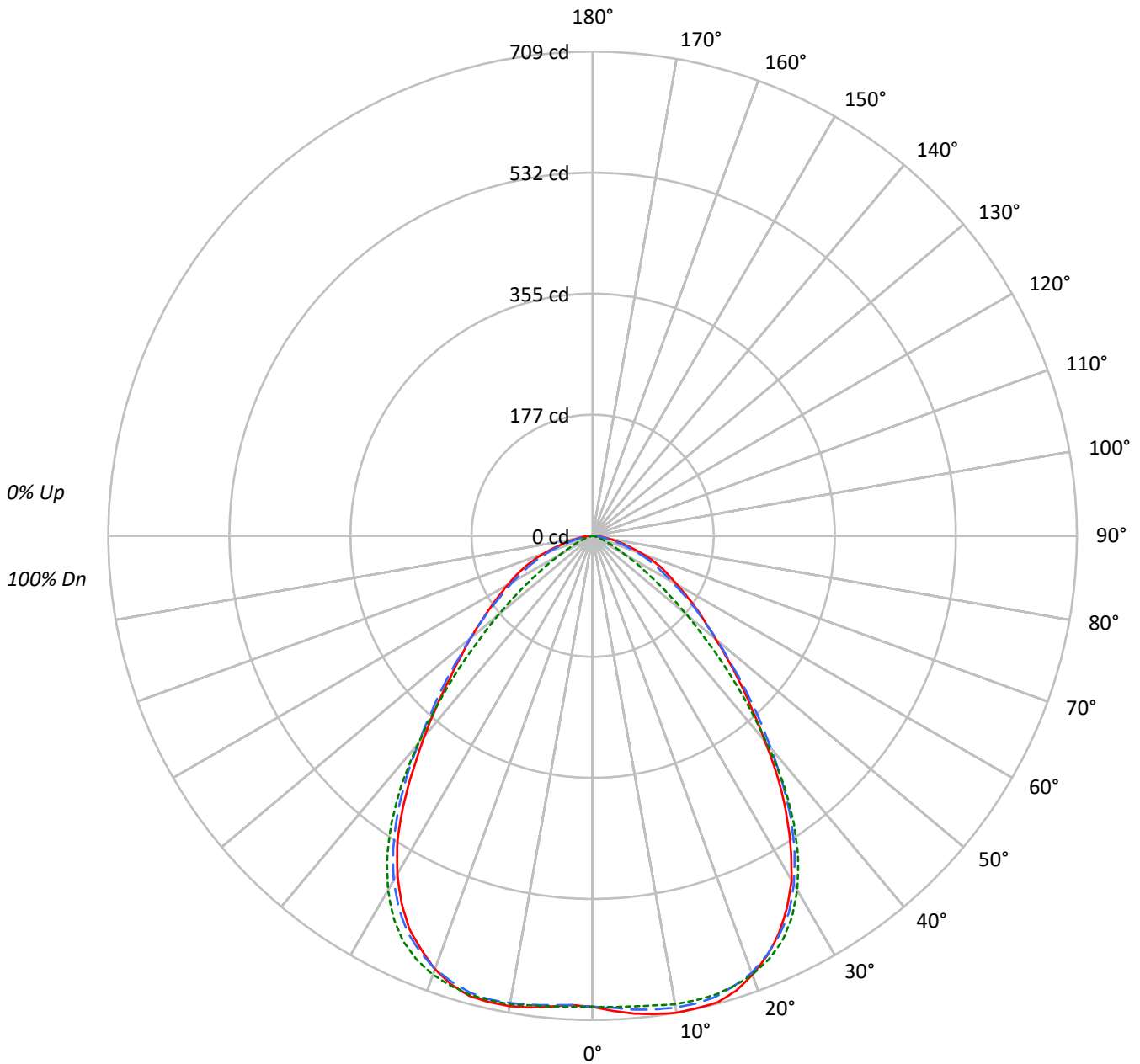
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68																			
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61																			
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54																			
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48																			
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44																			
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40																			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	44996	44996	44996
5°	46000	45299	45299
10°	46982	46148	46340
15°	47773	46982	47111
20°	47482	47482	46871
25°	46351	47193	45718
30°	43874	45125	43068
35°	39312	40873	38540
40°	33402	33819	32567
45°	28261	25834	27273
50°	23862	18219	23567
55°	20974	11761	20747
60°	18581	7007	18711
65°	17166	4214	17166
70°	14879	2423	14516
75°	11797	1487	11066
80°	8792	1090	8416
85°	8010	749	7336



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	4.9
10°-20°	196.5	14.4
20°-30°	295.6	21.6
30°-40°	310.8	22.7
40°-50°	232.2	17.0
50°-60°	144.5	10.6
60°-70°	82.2	6.0
70°-80°	33.8	2.5
80°-90°	7.0	0.5
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°	558.5	40.8
0°-40°	869.3	63.5
0°-60°	1246.0	91.0
0°-90°	1369.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1369.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	690	690	690	690	690	
5°	702	697	692	690	692	67
15°	707	698	696	693	698	199
25°	644	646	656	641	635	295
35°	494	506	513	498	484	306
45°	306	313	280	307	296	237
55°	184	180	103	178	182	166
65°	111	100	27	100	111	109
75°	47	37	6	36	44	51
85°	11	7	1	6	10	12
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°	689.7	689.7	689.7	689.7	689.7	689.7	689.7	689.7	689.7	689.7	689.7
2.5°	696.6	695.6	696.6	694.6	693.6	693.6	694.6	692.7	691.7	692.7	691.7
5°	702.4	700.5	701.4	700.5	698.5	698.5	699.5	696.6	696.6	697.5	696.6
7.5°	706.3	706.3	706.3	704.4	703.4	702.4	704.4	701.4	700.5	700.5	699.5
10°	709.2	708.3	709.2	707.3	705.3	704.4	706.3	704.4	702.4	704.4	701.4
12.5°	708.3	708.3	708.3	707.3	705.3	704.4	706.3	703.4	702.4	703.4	701.4
15°	707.3	704.4	705.3	704.4	701.4	701.4	702.4	699.5	697.5	700.5	698.5
17.5°	698.5	696.6	697.5	695.6	693.6	692.7	693.6	692.7	690.7	692.7	690.7
20°	683.9	683.9	684.9	682.9	681.0	680.0	681.9	680.0	678.0	681.0	681.0
22.5°	666.3	666.3	666.3	665.3	664.4	664.4	664.4	663.4	662.4	664.4	665.3
25°	643.9	642.9	643.9	644.9	643.9	642.9	643.9	643.9	641.9	645.8	645.8
27.5°	615.6	615.6	617.5	616.6	616.6	615.6	617.5	617.5	616.6	619.5	622.4
30°	582.4	580.5	582.4	582.4	583.4	583.4	584.4	584.4	584.4	587.3	589.2
32.5°	539.5	540.5	543.4	542.4	541.4	544.4	544.4	546.3	547.3	549.2	550.2
35°	493.6	494.6	494.6	495.6	497.5	495.6	500.5	499.5	500.5	504.4	506.3
37.5°	444.9	441.9	446.8	444.9	445.8	445.8	447.8	448.8	451.7	456.6	456.6
40°	392.2	393.2	395.1	396.1	397.1	397.1	397.1	400.0	401.0	406.8	405.8
42.5°	346.3	346.3	348.3	349.3	349.3	349.3	349.3	352.2	354.1	356.1	358.0
45°	306.3	303.4	305.4	305.4	307.3	306.3	308.3	310.2	311.2	314.1	313.2
47.5°	268.3	267.3	268.3	269.3	268.3	269.3	270.2	271.2	272.2	272.2	272.2
50°	235.1	235.1	236.1	237.1	237.1	237.1	237.1	238.0	238.0	240.0	238.0
52.5°	207.8	208.8	208.8	207.8	208.8	208.8	209.7	209.7	208.8	208.8	205.8
55°	184.4	183.4	184.4	183.4	184.4	184.4	183.4	183.4	182.4	181.5	180.5
57.5°	161.9	161.9	161.9	161.9	161.0	161.9	161.0	160.0	160.0	158.0	155.1
60°	142.4	142.4	142.4	142.4	142.4	141.5	142.4	141.5	139.5	137.6	133.7
62.5°	125.8	124.9	125.8	124.9	124.9	123.9	123.9	122.9	121.0	119.0	115.1
65°	111.2	112.2	111.2	111.2	110.2	109.3	109.3	108.3	105.4	103.4	99.5
67.5°	95.6	94.6	94.6	94.6	93.7	93.7	93.7	91.7	89.8	86.8	82.9
70°	78.0	78.0	78.0	77.1	77.1	76.1	76.1	75.1	73.2	71.2	66.3
72.5°	61.5	61.5	61.5	59.5	60.5	59.5	59.5	57.6	56.6	53.7	50.7
75°	46.8	46.8	45.9	45.9	44.9	43.9	43.9	42.9	41.9	40.0	37.1
77.5°	34.1	34.1	34.1	33.2	32.2	31.2	31.2	30.2	29.3	28.3	26.3
80°	23.4	23.4	23.4	23.4	22.4	21.5	21.5	20.5	20.5	19.5	17.6
82.5°	15.6	15.6	15.6	15.6	14.6	14.6	14.6	13.7	12.7	12.7	10.7
85°	10.7	10.7	9.8	9.8	9.8	9.8	8.8	8.8	7.8	6.8	6.8
87.5°	5.9	5.9	5.9	5.9	4.9	4.9	4.9	4.9	3.9	3.9	2.9
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°	689.7	689.7	689.7	689.7	689.7	689.7	689.7	689.7	689.7	689.7	689.7
2.5°	694.6	694.6	693.6	690.7	691.7	690.7	691.7	690.7	687.8	690.7	687.8
5°	698.5	699.5	697.5	693.6	694.6	693.6	693.6	692.7	689.7	691.7	689.7
7.5°	702.4	701.4	700.5	696.6	697.5	696.6	696.6	694.6	691.7	693.6	690.7
10°	704.4	704.4	702.4	698.5	698.5	697.5	698.5	697.5	693.6	696.6	694.6
12.5°	704.4	703.4	703.4	698.5	699.5	698.5	699.5	697.5	694.6	696.6	695.6
15°	701.4	701.4	700.5	695.6	696.6	696.6	697.5	695.6	692.7	695.6	693.6
17.5°	695.6	695.6	694.6	690.7	692.7	692.7	693.6	691.7	688.8	690.7	690.7
20°	683.9	684.9	684.9	681.9	683.9	683.9	684.9	683.9	682.9	683.9	681.9
22.5°	670.2	672.2	672.2	669.2	671.2	671.2	674.1	673.1	671.2	672.2	671.2
25°	649.7	651.7	653.6	651.7	653.6	653.6	656.6	655.6	653.6	655.6	652.7
27.5°	626.3	627.3	629.2	627.3	630.2	629.2	632.2	631.2	628.3	631.2	630.2
30°	593.1	597.1	600.0	597.1	600.0	600.0	601.9	601.0	600.0	599.0	599.0
32.5°	556.1	560.0	560.0	559.0	561.0	561.0	561.9	560.0	559.0	560.0	561.0
35°	510.2	512.2	514.1	513.2	514.1	515.1	514.1	515.1	512.2	513.2	513.2
37.5°	460.5	462.4	462.4	459.5	461.4	461.4	459.5	459.5	457.5	459.5	455.6
40°	407.8	405.8	406.8	404.9	402.9	402.9	401.9	398.0	396.1	397.1	398.0
42.5°	356.1	356.1	353.2	348.3	343.4	343.4	340.5	338.5	334.6	336.6	335.6
45°	312.2	307.3	303.4	295.6	292.7	290.7	285.8	281.0	279.0	280.0	279.0
47.5°	270.2	266.3	256.6	245.8	242.9	240.0	234.1	228.3	226.3	224.4	224.4
50°	235.1	228.3	217.6	205.8	201.0	196.1	188.3	182.4	178.5	179.5	179.5
52.5°	202.9	195.1	182.4	167.8	161.9	156.1	149.3	142.4	139.5	138.5	138.5
55°	174.6	165.8	153.2	136.6	131.7	124.9	116.1	108.3	104.4	103.4	105.4
57.5°	149.3	141.5	126.8	110.2	104.4	97.6	88.8	81.9	77.1	76.1	77.1
60°	128.8	118.0	105.4	89.8	81.9	76.1	66.3	60.5	55.6	53.7	54.6
62.5°	108.3	98.5	85.9	70.2	64.4	58.5	49.8	42.9	39.0	38.0	39.0
65°	92.7	82.9	71.2	57.6	51.7	45.9	38.0	31.2	28.3	27.3	28.3
67.5°	77.1	68.3	58.5	45.9	41.0	36.1	28.3	23.4	19.5	18.5	19.5
70°	62.4	54.6	44.9	36.1	31.2	27.3	21.5	16.6	13.7	12.7	13.7
72.5°	46.8	41.0	34.1	26.3	23.4	20.5	15.6	11.7	9.8	8.8	9.8
75°	34.1	29.3	24.4	18.5	16.6	14.6	10.7	7.8	6.8	5.9	6.8
77.5°	23.4	20.5	16.6	12.7	10.7	9.8	6.8	5.9	4.9	3.9	3.9
80°	15.6	13.7	10.7	8.8	7.8	6.8	4.9	3.9	2.9	2.9	2.9
82.5°	9.8	7.8	6.8	4.9	3.9	3.9	2.9	2.0	2.0	2.0	2.0
85°	5.9	4.9	3.9	2.9	2.0	2.0	1.0	1.0	1.0	1.0	1.0
87.5°	2.9	2.0	2.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	689.7	689.7	689.7	689.7	689.7	689.7	689.7	689.7	689.7	689.7	689.7
2.5°	689.7	687.8	687.8	688.8	689.7	690.7	688.8	687.8	687.8	690.7	688.8
5°	689.7	688.8	688.8	688.8	690.7	691.7	689.7	688.8	689.7	692.7	691.7
7.5°	692.7	690.7	691.7	691.7	692.7	694.6	692.7	691.7	692.7	695.6	693.6
10°	694.6	692.7	693.6	692.7	695.6	696.6	694.6	693.6	694.6	698.5	697.5
12.5°	695.6	694.6	694.6	693.6	696.6	697.5	695.6	694.6	695.6	698.5	697.5
15°	693.6	692.7	692.7	692.7	694.6	696.6	693.6	692.7	692.7	695.6	694.6
17.5°	689.7	687.8	687.8	687.8	688.8	689.7	686.8	685.8	684.9	687.8	686.8
20°	682.9	681.0	679.0	679.0	680.0	680.0	678.0	675.1	675.1	676.1	674.1
22.5°	670.2	669.2	667.3	666.3	668.3	667.3	663.4	660.5	659.5	660.5	658.5
25°	652.7	650.7	649.7	648.8	649.7	648.8	644.9	641.0	641.0	641.0	638.0
27.5°	628.3	626.3	625.3	625.3	626.3	624.4	620.5	616.6	614.6	614.6	611.7
30°	597.1	597.1	596.1	595.1	594.1	594.1	588.3	584.4	582.4	583.4	581.4
32.5°	559.0	558.0	557.1	554.1	555.1	554.1	549.2	546.3	543.4	541.4	540.5
35°	510.2	510.2	509.3	509.3	509.3	508.3	503.4	500.5	498.5	497.5	494.6
37.5°	456.6	455.6	454.6	454.6	454.6	454.6	451.7	448.8	448.8	447.8	445.8
40°	396.1	397.1	398.0	397.1	400.0	402.9	399.0	397.1	396.1	399.0	395.1
42.5°	337.5	336.6	341.5	342.4	342.4	347.3	348.3	349.3	348.3	350.2	350.2
45°	281.0	280.0	284.9	286.8	291.7	297.6	300.5	305.4	307.3	309.3	307.3
47.5°	227.3	231.2	235.1	240.0	243.9	253.6	259.5	264.4	266.3	269.3	269.3
50°	182.4	186.3	193.2	197.1	201.9	213.7	223.4	230.2	234.1	237.1	236.1
52.5°	140.5	147.3	156.1	160.0	166.8	180.5	191.2	199.0	203.9	206.8	207.8
55°	108.3	114.1	122.9	128.8	135.6	150.2	163.9	172.7	177.6	181.5	183.4
57.5°	80.0	86.8	96.6	101.5	109.3	125.8	137.6	148.3	154.1	159.0	160.0
60°	58.5	65.4	74.1	80.0	87.8	104.4	118.0	127.8	134.6	138.5	140.5
62.5°	41.9	48.8	57.6	63.4	70.2	84.9	98.5	108.3	115.1	120.0	122.9
65°	30.2	37.1	45.9	50.7	56.6	70.2	82.9	92.7	99.5	105.4	107.3
67.5°	22.4	27.3	35.1	40.0	45.9	56.6	67.3	76.1	82.9	87.8	89.8
70°	16.6	20.5	27.3	30.2	34.1	43.9	52.7	60.5	66.3	70.2	72.2
72.5°	11.7	14.6	19.5	22.4	25.4	33.2	40.0	45.9	49.8	53.7	55.6
75°	7.8	9.8	13.7	15.6	17.6	23.4	28.3	33.2	36.1	39.0	40.0
77.5°	4.9	6.8	9.8	10.7	12.7	15.6	19.5	22.4	24.4	26.3	28.3
80°	2.9	3.9	5.9	6.8	7.8	10.7	12.7	14.6	16.6	18.5	19.5
82.5°	2.0	2.9	3.9	3.9	4.9	5.9	7.8	9.8	10.7	11.7	12.7
85°	1.0	1.0	2.0	2.0	2.9	2.9	3.9	4.9	5.9	6.8	7.8
87.5°	1.0	1.0	1.0	1.0	2.0	2.0	2.9	2.9	2.9	3.9	3.9
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°	689.7	689.7	689.7	689.7	689.7	689.7	689.7	689.7
2.5°	686.8	689.7	686.8	688.8	687.8	687.8	686.8	687.8
5°	689.7	693.6	689.7	692.7	690.7	690.7	690.7	691.7
7.5°	692.7	696.6	693.6	696.6	695.6	694.6	694.6	696.6
10°	695.6	698.5	696.6	699.5	698.5	697.5	697.5	699.5
12.5°	695.6	699.5	697.5	700.5	699.5	698.5	698.5	699.5
15°	692.7	697.5	694.6	697.5	696.6	695.6	695.6	697.5
17.5°	683.9	687.8	685.8	687.8	687.8	686.8	687.8	688.8
20°	672.2	675.1	673.1	675.1	675.1	673.1	674.1	675.1
22.5°	655.6	658.5	656.6	658.5	657.5	656.6	656.6	655.6
25°	635.1	639.0	636.1	638.0	636.1	634.1	634.1	635.1
27.5°	609.7	612.7	608.8	610.7	608.8	606.8	606.8	605.8
30°	576.6	577.5	574.6	576.6	574.6	573.6	571.7	571.7
32.5°	536.6	537.5	534.6	534.6	532.7	532.7	528.8	531.7
35°	489.7	490.7	489.7	488.8	485.8	484.9	483.9	483.9
37.5°	441.0	441.0	438.0	437.1	435.1	433.2	434.1	431.2
40°	391.2	390.2	387.3	388.3	387.3	384.4	383.4	382.4
42.5°	344.4	344.4	341.5	342.4	340.5	339.5	336.6	337.5
45°	303.4	303.4	300.5	300.5	299.5	296.6	297.6	295.6
47.5°	266.3	266.3	265.4	265.4	262.4	261.5	261.5	261.5
50°	234.1	234.1	234.1	234.1	233.2	232.2	231.2	232.2
52.5°	206.8	208.8	207.8	207.8	206.8	205.8	204.9	204.9
55°	182.4	183.4	183.4	184.4	183.4	182.4	183.4	182.4
57.5°	161.0	162.9	162.9	162.9	162.9	162.9	161.9	161.0
60°	142.4	143.4	143.4	144.4	144.4	144.4	143.4	143.4
62.5°	123.9	125.8	126.8	126.8	127.8	126.8	126.8	126.8
65°	109.3	111.2	112.2	111.2	112.2	112.2	111.2	111.2
67.5°	91.7	93.7	93.7	93.7	93.7	94.6	93.7	93.7
70°	74.1	76.1	75.1	76.1	76.1	76.1	76.1	76.1
72.5°	56.6	57.6	58.5	58.5	59.5	58.5	58.5	58.5
75°	41.0	42.9	42.9	42.9	42.9	43.9	43.9	43.9
77.5°	29.3	30.2	30.2	31.2	31.2	31.2	31.2	32.2
80°	20.5	20.5	21.5	21.5	22.4	22.4	22.4	22.4
82.5°	13.7	14.6	14.6	14.6	14.6	14.6	14.6	14.6
85°	7.8	8.8	8.8	8.8	8.8	9.8	9.8	9.8
87.5°	4.9	4.9	4.9	4.9	4.9	4.9	3.9	3.9
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)