

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: P252563

Luminaire Tested: **LD6B15D010 EU6B10209027 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252563
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 EU6B10209027 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1201.0 lumens
Efficiency: N/A
Efficacy: 83.5 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

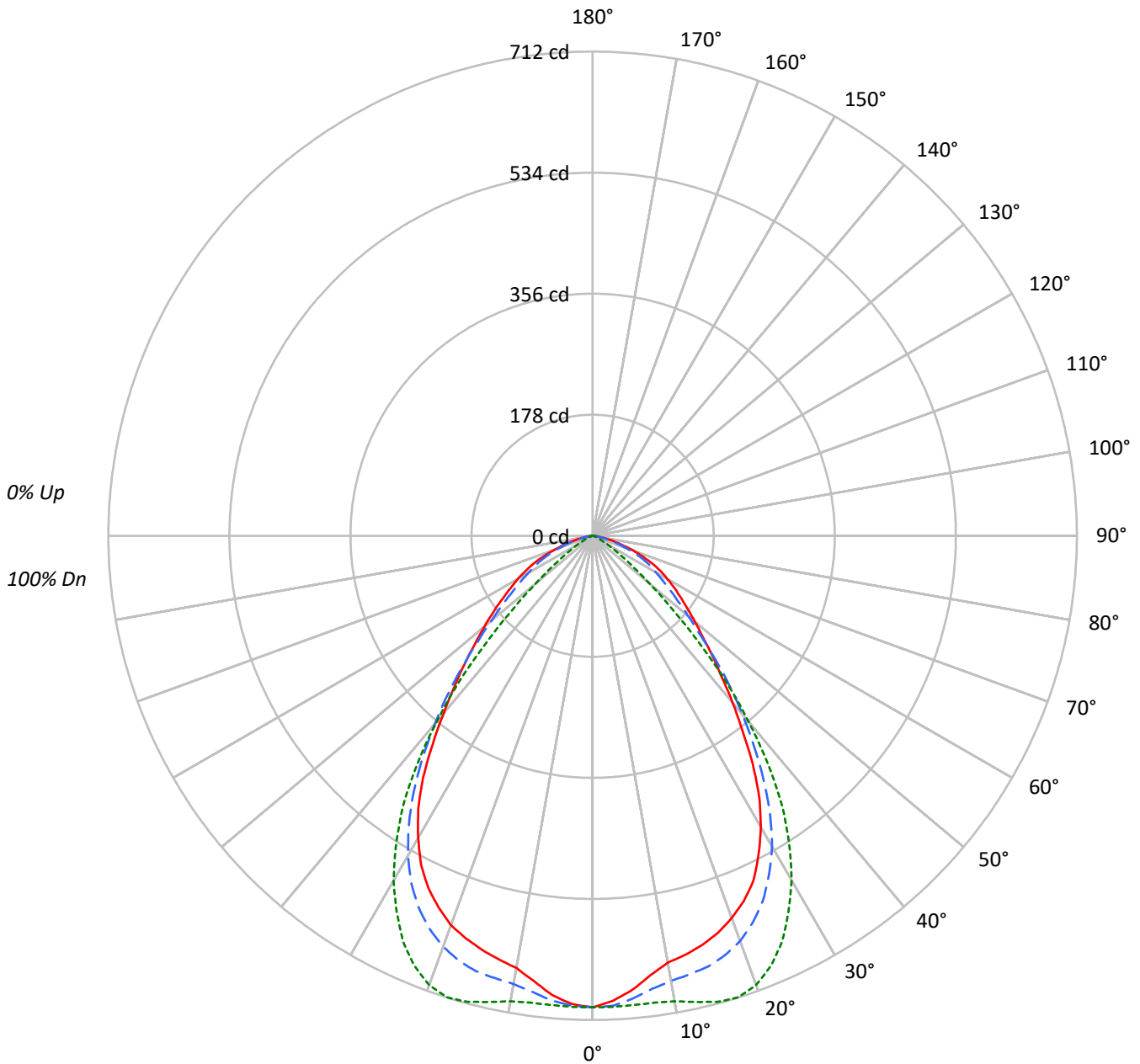
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89			89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79			79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70			70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			56
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50			50
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46			46
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42			42
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38			38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35			35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	45238	45238	45238
5°	43891	45358	44415
10°	42219	46042	42749
15°	42072	47914	42558
20°	41518	48808	42295
25°	40276	47431	41147
30°	37260	44085	38646
35°	32686	38755	34605
40°	27236	30379	29016
45°	22928	20040	24478
50°	19853	10982	21071
55°	17960	5835	18415
60°	16532	3027	16532
65°	14974	1605	14604
70°	12075	916	11159
75°	8293	605	7688
80°	5410	301	4809
85°	3593	599	2994



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.7	5.4
10°-20°	187.0	15.6
20°-30°	276.2	23.0
30°-40°	279.0	23.2
40°-50°	192.3	16.0
50°-60°	110.5	9.2
60°-70°	64.3	5.4
70°-80°	23.4	2.0
80°-90°	3.6	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°	527.9	44.0
0°-40°	806.9	67.2
0°-60°	1109.7	92.4
0°-90°	1201.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1201.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	693	693	693	693	693	
5°	670	683	693	686	678	63
15°	623	656	709	663	630	175
25°	560	592	659	604	572	255
35°	410	438	487	458	434	255
45°	248	252	217	268	265	193
55°	158	139	51	144	162	142
65°	97	82	10	81	95	95
75°	33	26	2	26	30	37
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°	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4
2.5°	684.6	685.4	686.2	685.4	686.2	689.4	687.0	688.6	688.6	689.4	691.8
5°	670.2	670.2	671.8	671.0	673.4	676.6	674.2	676.6	677.4	679.0	683.0
7.5°	651.7	651.7	652.5	652.5	655.7	658.9	657.3	660.5	663.7	666.9	671.8
10°	637.3	638.9	638.9	639.7	642.9	646.9	646.1	650.1	653.3	658.1	664.5
12.5°	630.9	631.7	631.7	633.3	636.5	640.5	639.7	643.7	648.5	654.1	660.5
15°	622.9	624.5	623.7	625.3	628.5	632.5	631.7	635.7	641.3	646.9	655.7
17.5°	612.4	613.2	614.0	614.0	617.2	620.5	620.5	624.5	630.9	637.3	646.9
20°	598.0	599.6	599.6	600.4	602.8	607.6	606.8	610.8	617.2	623.7	634.1
22.5°	581.2	582.0	582.0	582.8	586.8	589.2	590.0	593.2	598.8	606.0	615.6
25°	559.5	560.3	559.5	561.9	563.5	568.3	566.7	570.8	577.2	582.8	592.4
27.5°	528.3	529.9	529.9	530.7	534.7	538.7	538.7	542.7	548.3	552.3	561.9
30°	494.6	497.0	494.6	498.6	500.2	503.4	505.8	508.2	513.0	518.6	527.5
32.5°	456.1	455.3	456.1	457.7	462.5	464.9	466.5	468.9	473.8	478.6	485.8
35°	410.4	412.0	412.8	416.0	416.0	420.0	420.8	422.5	429.7	432.9	438.5
37.5°	362.3	363.9	364.7	366.3	369.5	371.1	373.6	376.0	380.8	386.4	389.6
40°	319.8	319.8	320.6	322.2	324.7	325.5	327.9	331.1	334.3	339.1	342.3
42.5°	279.8	280.6	279.8	281.4	283.8	287.0	286.2	290.2	291.0	294.2	296.6
45°	248.5	248.5	246.9	248.5	248.5	251.7	250.9	252.5	251.7	253.3	251.7
47.5°	218.8	219.6	218.8	219.6	219.6	219.6	220.4	218.8	219.6	217.2	212.4
50°	195.6	196.4	194.8	195.6	194.8	194.0	194.8	192.4	191.6	188.4	183.6
52.5°	175.6	174.8	174.0	174.0	174.0	173.1	172.3	169.9	167.5	164.3	158.7
55°	157.9	157.1	156.3	156.3	154.7	153.9	153.9	151.5	149.1	145.1	138.7
57.5°	141.9	141.1	140.3	140.3	139.5	137.9	137.9	135.5	132.3	127.5	121.8
60°	126.7	126.7	126.7	125.9	125.9	124.3	124.3	121.8	118.6	113.8	107.4
62.5°	113.0	112.2	112.2	112.2	112.2	111.4	110.6	109.0	105.8	101.0	95.4
65°	97.0	97.0	97.0	97.0	96.2	96.2	96.2	93.8	92.2	87.4	81.8
67.5°	79.4	79.4	79.4	79.4	78.6	79.4	79.4	77.8	76.2	71.3	66.5
70°	63.3	62.5	61.7	62.5	61.7	61.7	62.5	60.9	60.1	56.1	51.3
72.5°	46.5	47.3	46.5	46.5	46.5	45.7	46.5	45.7	44.1	40.9	37.7
75°	32.9	33.7	33.7	32.9	32.9	32.9	32.1	32.1	30.5	28.1	26.5
77.5°	22.4	22.4	22.4	22.4	21.6	21.6	21.6	20.8	20.0	18.4	16.8
80°	14.4	14.4	14.4	14.4	13.6	13.6	13.6	12.8	12.8	11.2	9.6
82.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.0	8.0	7.2	6.4	5.6
85°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.0	4.0	3.2	2.4
87.5°	1.6	1.6	2.4	2.4	2.4	2.4	2.4	2.4	1.6	1.6	1.6
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°	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4
2.5°	690.2	691.0	691.0	691.0	693.4	694.2	691.8	689.4	694.2	693.4	695.0
5°	682.2	684.6	686.2	687.0	689.4	691.0	688.6	687.8	691.8	692.6	693.4
7.5°	672.6	676.6	680.6	682.2	685.4	687.0	686.2	686.2	691.0	692.6	692.6
10°	666.1	671.8	676.6	680.6	684.6	687.0	687.0	687.8	693.4	695.0	696.6
12.5°	664.5	671.8	678.2	683.8	687.0	691.0	691.8	694.2	699.8	702.2	702.2
15°	660.5	670.2	678.2	685.4	690.2	695.0	696.6	701.4	707.8	709.4	711.0
17.5°	653.3	662.9	672.6	681.4	687.8	691.8	696.6	701.4	709.4	711.8	712.6
20°	640.5	651.7	661.3	670.2	676.6	682.2	687.0	692.6	699.8	703.0	703.8
22.5°	621.3	632.5	642.1	651.7	658.1	662.9	667.7	674.2	681.4	684.6	684.6
25°	598.0	608.4	618.8	626.1	632.5	638.1	640.5	647.7	654.9	658.9	658.9
27.5°	568.3	578.0	587.6	595.6	599.6	604.4	608.4	614.8	620.5	623.7	626.9
30°	530.7	540.3	549.1	557.1	561.9	566.7	570.8	575.6	581.2	585.2	586.0
32.5°	489.8	497.8	506.6	514.6	519.4	521.0	525.1	529.9	534.7	537.9	538.7
35°	444.9	450.5	456.1	463.3	468.1	468.1	472.2	475.4	479.4	486.6	485.0
37.5°	392.0	400.0	404.0	406.4	409.6	412.8	413.6	417.6	422.5	424.1	426.5
40°	342.3	344.7	347.1	347.1	350.3	350.3	350.3	351.1	355.9	356.7	359.9
42.5°	292.6	292.6	290.2	287.8	288.6	287.8	283.8	283.8	286.2	289.4	289.4
45°	246.1	240.5	233.3	227.7	223.7	222.0	217.2	217.2	216.4	217.2	220.4
47.5°	206.8	197.2	185.2	174.0	169.9	166.7	159.5	156.3	154.7	155.5	157.1
50°	174.0	163.5	149.9	136.3	129.1	125.1	116.2	110.6	109.8	108.2	111.4
52.5°	149.9	137.1	122.6	106.6	99.4	93.0	83.4	78.6	75.4	75.4	76.2
55°	129.1	115.4	99.4	83.4	76.2	71.3	61.7	55.3	52.1	51.3	53.7
57.5°	111.4	98.6	82.6	66.5	59.3	53.7	44.1	38.5	36.1	34.5	35.3
60°	97.8	85.0	68.9	53.7	47.3	40.9	32.9	26.5	23.2	23.2	24.0
62.5°	85.0	72.9	58.5	44.1	38.5	32.9	24.0	18.4	16.0	15.2	16.0
65°	72.1	60.9	48.9	36.9	31.3	26.5	19.2	14.4	11.2	10.4	11.2
67.5°	58.5	49.7	39.3	29.7	24.9	20.8	14.4	10.4	8.0	7.2	8.0
70°	45.7	37.7	29.7	21.6	18.4	15.2	10.4	8.0	5.6	4.8	5.6
72.5°	32.9	27.3	20.8	15.2	12.8	10.4	7.2	5.6	4.0	3.2	4.0
75°	22.4	18.4	13.6	9.6	8.0	7.2	4.8	3.2	2.4	2.4	2.4
77.5°	14.4	11.2	8.8	6.4	4.8	4.0	2.4	1.6	1.6	1.6	1.6
80°	8.0	6.4	4.8	3.2	2.4	2.4	1.6	1.6	0.8	0.8	0.8
82.5°	4.8	3.2	2.4	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8
85°	2.4	1.6	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°	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4
2.5°	691.8	692.6	690.2	693.4	691.0	694.2	694.2	691.0	691.8	690.2	693.4
5°	690.2	690.2	688.6	691.0	687.8	691.0	690.2	684.6	686.2	683.0	686.2
7.5°	690.2	688.6	686.2	688.6	684.6	687.0	683.8	678.2	676.6	672.6	672.6
10°	692.6	690.2	687.0	687.8	683.8	684.6	679.8	671.8	669.3	664.5	662.9
12.5°	698.2	695.8	691.0	692.6	687.0	687.0	680.6	671.0	666.1	659.7	658.1
15°	706.2	702.2	696.6	697.4	691.8	688.6	680.6	669.3	662.9	654.1	651.7
17.5°	707.8	703.8	696.6	696.6	689.4	685.4	675.8	662.9	654.9	646.1	641.3
20°	699.0	695.0	687.0	686.2	679.8	674.2	663.7	650.9	642.9	633.3	629.3
22.5°	680.6	675.8	668.5	667.7	661.3	658.1	646.9	634.1	626.1	616.4	613.2
25°	653.3	650.9	643.7	642.9	637.3	633.3	623.7	611.6	604.4	594.8	591.6
27.5°	621.3	618.8	611.6	611.6	605.2	602.8	594.0	582.8	577.2	568.3	564.3
30°	582.8	579.6	575.6	574.8	569.1	566.7	558.7	548.3	542.7	535.5	533.9
32.5°	537.1	534.7	532.3	531.5	525.9	523.5	517.8	507.4	502.6	496.2	493.8
35°	484.2	482.6	480.2	479.4	477.0	474.6	468.9	460.9	458.5	453.7	451.3
37.5°	423.3	424.9	423.3	423.3	420.8	421.6	416.8	412.0	409.6	406.4	404.8
40°	357.5	360.7	363.1	363.1	362.3	365.5	364.7	360.7	359.9	358.3	357.5
42.5°	291.0	292.6	297.4	300.6	299.8	307.8	308.6	311.8	314.2	312.6	313.4
45°	221.2	226.1	232.5	235.7	239.7	250.1	255.7	262.1	267.7	270.9	270.1
47.5°	159.5	165.1	172.3	177.2	184.4	197.2	211.6	219.6	227.7	231.7	235.7
50°	115.4	121.0	129.9	137.1	141.9	159.5	174.8	185.2	194.0	199.6	203.6
52.5°	81.0	87.4	97.0	103.4	110.6	127.5	145.1	157.1	166.7	174.0	178.0
55°	56.1	63.3	72.1	78.6	86.6	104.2	121.0	133.9	144.3	150.7	155.5
57.5°	39.3	45.7	54.5	60.1	68.1	85.0	101.8	114.6	125.1	131.5	137.1
60°	26.5	32.9	41.7	47.3	53.7	70.5	85.8	99.4	109.0	115.4	121.0
62.5°	18.4	24.0	32.9	38.5	44.1	58.5	72.9	85.0	94.6	101.8	106.6
65°	14.4	19.2	26.5	31.3	36.9	48.9	60.9	71.3	81.0	88.2	91.4
67.5°	10.4	15.2	20.8	24.9	28.9	39.3	49.7	57.7	66.5	72.1	76.2
70°	7.2	10.4	15.2	18.4	21.6	29.7	37.7	44.9	51.3	55.3	58.5
72.5°	5.6	7.2	10.4	12.8	15.2	20.8	27.3	32.9	37.7	40.9	44.1
75°	3.2	4.8	7.2	8.8	10.4	14.4	18.4	22.4	25.7	28.1	29.7
77.5°	1.6	2.4	4.0	4.8	6.4	8.8	12.0	14.4	16.8	18.4	20.0
80°	1.6	1.6	2.4	2.4	3.2	4.8	6.4	8.0	9.6	11.2	12.0
82.5°	0.8	0.8	1.6	1.6	1.6	2.4	3.2	4.8	5.6	6.4	7.2
85°	0.8	0.8	0.8	0.8	0.8	1.6	1.6	2.4	3.2	4.0	4.0
87.5°	0.0	0.0	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6	2.4
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°	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4
2.5°	691.0	692.6	691.8	693.4	691.0	690.2	691.8	689.4
5°	682.2	683.0	682.2	682.2	680.6	679.0	680.6	678.2
7.5°	668.5	668.5	666.1	666.1	662.9	661.3	661.3	660.5
10°	657.3	654.9	652.5	653.3	648.5	646.9	646.1	645.3
12.5°	651.7	650.1	646.1	646.1	641.3	639.7	638.9	638.1
15°	645.3	642.1	638.9	638.1	634.1	632.5	631.7	630.1
17.5°	634.1	631.7	627.7	627.7	623.7	622.9	621.3	620.5
20°	622.1	618.8	615.6	615.6	610.8	610.8	608.4	609.2
22.5°	605.2	602.8	599.6	599.6	595.6	594.8	592.4	591.6
25°	585.2	582.0	579.6	578.8	575.6	574.0	573.2	571.6
27.5°	558.7	556.3	553.9	552.3	548.3	547.5	545.1	545.9
30°	525.9	524.3	523.5	521.9	517.0	515.4	515.4	513.0
32.5°	489.8	487.4	485.8	483.4	479.4	478.6	476.2	477.0
35°	445.7	442.5	440.1	440.9	436.1	435.3	433.7	434.5
37.5°	400.0	396.8	393.6	392.8	388.8	388.8	386.4	386.4
40°	352.7	349.5	347.9	347.9	343.1	343.9	341.5	340.7
42.5°	310.2	307.0	306.2	305.4	303.0	302.2	299.8	300.6
45°	270.1	269.3	269.3	267.7	265.3	264.5	265.3	265.3
47.5°	234.9	235.7	234.9	234.9	233.3	234.9	233.3	234.1
50°	205.2	206.8	206.8	206.8	206.0	206.8	206.8	207.6
52.5°	180.4	182.8	182.0	182.8	182.0	183.6	182.8	183.6
55°	158.7	160.3	161.1	161.9	161.9	161.9	161.9	161.9
57.5°	138.7	141.1	141.9	142.7	142.7	144.3	142.7	142.7
60°	122.6	125.1	125.9	126.7	126.7	127.5	125.9	126.7
62.5°	108.2	110.6	110.6	111.4	111.4	111.4	109.8	110.6
65°	93.8	94.6	95.4	95.4	94.6	94.6	93.8	94.6
67.5°	77.8	78.6	77.8	77.8	77.0	77.0	75.4	76.2
70°	60.1	60.1	60.9	60.1	59.3	60.1	59.3	58.5
72.5°	44.9	44.9	44.9	44.1	44.1	43.3	44.1	44.1
75°	30.5	30.5	31.3	31.3	31.3	31.3	30.5	30.5
77.5°	20.0	20.0	20.0	20.0	20.8	20.0	20.0	20.0
80°	12.8	12.8	13.6	13.6	12.8	12.8	12.8	12.8
82.5°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
85°	4.8	4.8	4.8	4.8	4.0	4.0	4.0	4.0
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	1.6	1.6
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)